
The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS are published, on behalf of
Commission 20 of the International Astronomical Union, usually in batches
on or near the date of each full moon, by:

Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)

BMARSDEN@CFA.HARVARD.EDU or GWILLIAMS@CFA.HARVARD.EDU (science)

Phone 617-495-7244/7444/7440 (for emergency use only).

World-Wide Web address <http://cfa-www.harvard.edu/iau/mpc.html> ISSN 0736-6884

Brian G. Marsden, Director

Gareth V. Williams, Associate Director

© Copyright 2000 Minor Planet Center

Syuichi Nakano, Liaison in Japan

Prepared using the Tamkin Foundation Computer Network

EDITORIAL NOTICE

Contributors of perturbed orbital elements are advised that use of the Epoch
2000 Sept. 13.0 TT (rather than 2000 Feb. 26.0 TT) will become effective *after* the
next batch of *MPCs*.

ERRATA

<i>MPC</i>	Line	
38586	26	<i>Add</i> 1980 DY ₄ = 1980 FL ₁ (<i>MPC</i> 9203) is invalid
38949	– 9	The procedure that applies diacritical marks caused this earlier erratum to <i>MPC</i> 38200 (line –48) to make no sense. There should be no dieresis on the name (11050) Messiaen.
38967	1	<i>For</i> unconformed <i>read</i> unconfirmed

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 38950. The longitudes λ
are measured in degrees eastward from Greenwich, and the parallax constants $\rho \cos \phi'$
and $\rho \sin \phi'$ are the product of the geocentric distance (in earth equatorial radii) and
the cosine and sine, respectively, of the geocentric latitude.

Obs.	λ	$\rho \cos \phi'$	$\rho \sin \phi'$	
181	55.1989	0.93155	–0.36280	Observatoire des Makes, Saint-Louis
350	139.2635	0.80504	+0.59132	Kurohone

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	N Obs.
2000 ES	2000 03 08.94401		11 52 13.75	–04 50 12.1	<i>MPS</i> 11342		1 952
2000 ES	2000 03 08.94736		11 52 13.52	–04 50 11.7	<i>MPS</i> 11342		1 952
2000 ES	2000 03 08.95080		11 52 13.36	–04 50 10.6	<i>MPS</i> 11342	17.7 V	1 952
2000 ES	2000 03 08.96173		11 52 12.76	–04 50 05.9	<i>MPS</i> 11342		1 952
2000 ES	2000 03 08.97731		11 52 12.01	–04 50 00.3	<i>MPS</i> 11342		1 952

Note 1: time corrected by –1 hour.

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
1999 XV ₁₅₈	* 1999 12 08.34008		06 14 13.92	+17 29 28.8	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 08.35253		06 14 13.34	+17 29 27.0	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 08.36498		06 14 12.63	+17 29 26.3	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 08.37746		06 14 11.91	+17 29 26.4	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 14.22558		06 08 43.28	+17 27 48.8	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 14.24005		06 08 42.42	+17 27 48.3	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 14.25454		06 08 41.54	+17 27 48.1	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 14.26925		06 08 40.67	+17 27 47.3	<i>MPS</i> 9059	1 704
1999 XV ₁₅₈	1999 12 14.28369		06 08 39.75	+17 27 48.7	<i>MPS</i> 9059	1 704
2000 BT ₁₅	* 2000 01 29.24832		08 08 15.43	+37 03 04.0	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 29.26399		08 08 14.94	+37 03 03.9	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 29.28014		08 08 14.43	+37 03 04.3	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 29.29596		08 08 14.15	+37 03 03.3	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 31.22584		08 07 23.66	+37 02 57.5	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 31.24068		08 07 23.29	+37 02 57.5	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 31.25564		08 07 23.00	+37 02 58.7	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 01 31.27049		08 07 22.53	+37 02 57.1	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 02 02.25706		08 06 31.43	+37 02 34.8	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 02 02.27145		08 06 31.05	+37 02 34.7	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 02 02.28596		08 06 30.68	+37 02 35.0	<i>MPS</i> 10280	2 704
2000 BT ₁₅	2000 02 02.30036		08 06 30.30	+37 02 35.0	<i>MPS</i> 10280	2 704

Note 1: these observations were also published on *MPC* 8315 under the designation
1990 VT₆. 2: these observations were published on *MPC* 38252 under the
correct designation of comet C/2000 B4.

IDENTIFICATION CHANGES

Continuation to *MPC* 38950.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1953 XY ₁	* 1953 12 08.90139		03 36 38.66	+17 57 15.1	1953 VS ₂		024
1976 SM ₁₁	* 1976 09 28.88331		00 04 19.87	+02 12 09.6	1976 SS ₇	17.0	095
1980 RQ ₈	* 1980 09 09.93372		00 59 19.14	+06 15 18.7	1980 RS ₄	17.5	095
1990 US ₁₄	* 1990 10 22.14306		23 42 03.05	–01 56 52.3	1990 RC ₄	18.0	675

1990 US ₁₄	1990 10 22.17517	23 42 02.46	-01 57 03.0	1990 RC ₄	675	1998 UV ₄₇	1998 10 28.28302	01 45 08.06	+12 01 29.7	1998 SC ₁₄₅	19.2	704	
1981 JT ₆	* 1981 05 01.49549	11 55 00.68	-06 50 25.1	1981 DP ₃	413	1998 UV ₄₇	1998 10 28.29871	01 45 07.14	+12 01 25.3	1998 SC ₁₄₅	19.2	704	
1981 UB ₃₀	* 1981 10 28.86102	02 32 43.97	+04 17 27.4	1981 UX ₁₁	17.5	095	1998 UV ₄₇	1998 10 29.22060	01 44 21.36	+11 57 36.7	1998 SC ₁₄₅	19.3	704
1982 RQ ₃	* 1982 09 12.82988	22 42 08.28	-02 20 44.1	1982 PV	17.0	095	1998 UV ₄₇	1998 10 29.24066	01 44 20.33	+11 57 32.1	1998 SC ₁₄₅	19.4	704
1989 TQ ₁₈	* 1989 10 08.10139	00 03 30.23	-00 45 48.8	1989 TX ₁₆	809	1998 UV ₄₇	1998 10 29.26066	01 44 19.22	+11 57 23.7	1998 SC ₁₄₅	18.7	704	
1989 TQ ₁₈	1989 10 08.11111	00 03 29.89	-00 45 56.9	1989 TX ₁₆	809	1998 UV ₄₇	1998 10 29.28070	01 44 18.25	+11 57 21.1	1998 SC ₁₄₅	18.7	704	
1989 TQ ₁₈	1989 10 08.12083	00 03 29.55	-00 46 04.9	1989 TX ₁₆	809	1998 VJ ₄₆	* 1998 11 15.13585	00 20 48.32	-07 46 32.9	1998 SL ₁₃	17.0 R	699	
1990 UR ₁₄	* 1990 10 17.87213	01 44 39.75	+25 12 25.5	1990 TL ₁₅	16.5	095	1998 VJ ₄₆	1998 11 15.18552	00 20 48.28	-07 46 06.6	1998 SL ₁₃	699	
1990 UR ₁₄	1990 10 17.88637	01 44 39.27	+25 12 28.8	1990 TL ₁₅	16.5	095	1998 VJ ₄₆	1998 11 15.20600	00 20 48.19	-07 45 54.9	1998 SL ₁₃	699	
1991 RB ₄₂	* 1991 09 06.10833	21 24 46.77	-17 57 40.2	1991 RG ₁₂	19.5	809	1998 VK ₄₆	* 1998 11 01.77235	04 30 40.23	+20 26 35.1	1998 UD ₃₂	18.6	327
1991 RB ₄₂	1991 09 06.12153	21 24 46.20	-17 57 41.0	1991 RG ₁₂	809	1998 VK ₄₆	1998 11 01.78505	04 30 39.74	+20 26 33.8	1998 UD ₃₂	327		
1991 RB ₄₂	1991 09 06.13472	21 24 45.56	-17 57 42.0	1991 RG ₁₂	809	1998 VK ₄₆	1998 11 01.79770	04 30 39.24	+20 26 32.1	1998 UD ₃₂	327		
1992 EQ ₃₆	* 1992 03 06.16389	10 32 14.52	+13 22 02.9	1992 EP ₂₁	809	1998 WF ₃₄	* 1998 11 19.59479	04 02 35.95	+20 54 06.9	1998 WG ₄	17.2	399	
1992 OA ₁₁	* 1992 07 30.29444	21 50 24.41	-12 19 13.9	1992 OG ₅	809	1998 WF ₃₄	1998 11 19.60903	04 02 35.14	+20 54 02.0	1998 WG ₄	399		
1992 OA ₁₁	1992 07 30.30486	21 50 23.88	-12 19 15.2	1992 OG ₅	809	1998 WG ₃₄	* 1998 11 24.19688	04 15 28.18	+25 54 12.7	1994 PM ₂₈	18.4	704	
1992 OA ₁₁	1992 07 30.31528	21 50 23.44	-12 19 17.7	1992 OG ₅	809	1998 WG ₃₄	1998 11 24.24510	04 15 24.70	+25 54 07.0	1994 PM ₂₈	18.9	704	
1993 HX ₈	* 1993 04 17.27553	12 15 41.86	-02 41 07.5	1993 FH ₄₄	19.4 V	691	1998 WG ₃₄	1998 11 24.34128	04 15 17.29	+25 53 59.6	1994 PM ₂₈	18.9	704
1993 HX ₈	1993 04 17.28855	12 15 41.17	-02 41 03.7	1993 FH ₄₄	691	1998 WG ₃₄	1998 11 24.38931	04 15 13.63	+25 53 55.9	1994 PM ₂₈	19.2	704	
1993 HX ₈	1993 04 17.30154	12 15 40.52	-02 41 00.0	1993 FH ₄₄	691	1998 XM ₉₇	* 1998 12 14.23194	04 48 15.53	+24 50 01.2	1998 XR ₃₂	19.1	704	
1993 HY ₈	* 1993 04 17.43889	12 07 33.58	-04 49 07.8	1993 FQ ₃₀	19.0	413	1998 XM ₉₇	1998 12 14.25388	04 48 14.49	+24 50 01.3	1998 XR ₃₂	19.2	704
1993 WV	* 1993 11 16.58333	03 36 13.80	+15 47 45.8	1993 VK ₃	17.2	399	1998 XM ₉₇	1998 12 14.27589	04 48 13.24	+24 50 01.4	1998 XR ₃₂	19.3	704
1993 WV	1993 11 16.59792	03 36 12.84	+15 47 44.9	1993 VK ₃	399	098	1998 YN ₃₀	* 1998 12 17.18837	04 23 08.45	+25 24 28.8	1998 XT ₃₅	18.3	704
1994 XF ₆	* 1994 12 04.95266	04 34 36.91	+22 02 31.0	1994 XW ₅	691	1998 YN ₃₀	1998 12 17.21153	04 23 07.10	+25 24 25.9	1998 XT ₃₅	18.2	704	
1995 GC ₉	* 1995 04 04.15851	11 06 52.66	+09 39 51.9	1995 FQ ₂	18.8 V	691	1998 YN ₃₀	1998 12 17.23477	04 23 05.76	+25 24 22.3	1998 XT ₃₅	17.5	704
1995 GC ₉	1995 04 04.18046	11 06 51.85	+09 39 53.9	1995 FQ ₂	691	1998 YN ₃₀	1998 12 17.25788	04 23 04.34	+25 24 17.8	1998 XT ₃₅	18.3	704	
1995 GC ₉	1995 04 04.20213	11 06 51.04	+09 39 56.1	1995 FQ ₂	691	1999 BA ₃₄	* 1999 01 19.21695	06 48 33.52	+38 14 31.5	1999 BK ₁₈	19.5	704	
1996 BJ ₁₈	* 1996 01 25.37606	09 13 24.65	+08 30 24.7	1996 BJ ₁	658	1999 BA ₃₄	1999 01 19.23923	06 48 32.42	+38 14 28.0	1999 BK ₁₈	19.8	704	
1996 BJ ₁₈	1996 01 25.38712	09 13 24.18	+08 30 29.2	1996 BJ ₁	658	1999 BA ₃₄	1999 01 19.26145	06 48 30.84	+38 14 27.5	1999 BK ₁₈	19.4	704	
1996 BJ ₁₈	1996 01 25.39353	09 13 23.82	+08 30 32.4	1996 BJ ₁	658	1999 BA ₃₄	1999 01 19.28366	06 48 29.18	+38 14 24.7	1999 BK ₁₈	20.1	704	
1996 CN ₉	* 1996 02 01.81458	12 30 52.35	-02 58 08.5	1996 FY	327	1999 GT ₄₆	* 1999 04 12.22474	13 05 45.65	-02 55 46.2	1999 GL ₂₆	19.6	704	
1996 CN ₉	1996 02 01.83204	12 30 52.47	-02 58 11.7	1996 FY	18.6	327	1999 GT ₄₆	1999 04 12.24191	13 05 44.76	-02 55 41.5	1999 GL ₂₆	19.1	704
1996 CN ₉	1996 02 01.84684	12 30 52.59	-02 58 14.8	1996 FY	327	1999 GT ₄₆	1999 04 12.25900	13 05 43.87	-02 55 34.6	1999 GL ₂₆	19.1	704	
1996 FB ₂₄	* 1996 03 25.63010	13 33 55.21	-02 00 12.6	2000 AV ₃₀	413	1999 GT ₄₆	1999 04 12.27610	13 05 42.83	-02 55 29.9	1999 GL ₂₆	19.7	704	
1996 FB ₂₄	1996 03 25.68218	13 33 52.80	-02 00 02.3	2000 AV ₃₀	413	2000 AL ₂₄₆	* 2000 01 04.29093	07 45 41.79	+19 15 05.3	1999 XK ₂₁₈	18.3	704	
1997 GC ₄₅	* 1997 04 02.41983	14 55 41.93	-17 30 20.2	1997 JR ₁₆	20.5	704	2000 AL ₂₄₆	2000 01 04.30557	07 45 40.85	+19 15 00.9	1999 XK ₂₁₈	18.1	704
1997 GC ₄₅	1997 04 02.45108	14 55 40.64	-17 30 18.4	1997 JR ₁₆	704	2000 AL ₂₄₆	2000 01 04.32013	07 45 39.88	+19 14 56.1	1999 XK ₂₁₈	18.6	704	
1997 PJ ₆	* 1997 08 13.70834	23 45 52.45	-04 53 25.5	1997 PX ₅	20.1	327	2000 AL ₂₄₆	2000 01 04.33474	07 45 38.96	+19 14 51.0	1999 XK ₂₁₈	19.1	704
1997 PJ ₆	1997 08 13.80762	23 45 49.86	-04 53 50.2	1997 PX ₅	327	2000 AL ₂₄₆	2000 01 04.34939	07 45 38.02	+19 14 47.0	1999 XK ₂₁₈	18.2	704	
1997 PJ ₆	1997 08 13.81278	23 45 49.69	-04 53 51.6	1997 PX ₅	327	2000 CX ₁₀₅	* 2000 02 11.34359	10 24 30.19	+10 56 28.9	2000 CY ₈₃	19.0	704	
1997 PJ ₆	1997 08 13.81711	23 45 49.55	-04 53 52.0	1997 PX ₅	327	2000 CX ₁₀₅	2000 02 11.35798	10 24 29.47	+10 56 33.3	2000 CY ₈₃	18.7	704	
1998 RR ₈₀	* 1998 09 14.35719	00 02 56.38	-06 52 08.0	1998 SB ₂₄	17.6	704	2000 CX ₁₀₅	2000 02 11.37241	10 24 28.81	+10 56 37.5	2000 CY ₈₃	19.0	704
1998 RR ₈₀	1998 09 14.35729	00 02 56.25	-06 52 07.8	1998 SB ₂₄	17.8	704	2000 DU ₁₁₀	* 2000 02 29.10420	09 02 24.08	+13 46 51.8	2000 CA ₂₄	18.1	704
1998 RR ₈₀	1998 09 14.37937	00 02 55.04	-06 52 14.0	1998 SB ₂₄	704	2000 DU ₁₁₀	2000 02 29.11764	09 02 23.56	+13 46 52.5	2000 CA ₂₄	18.7	704	
1998 RR ₈₀	1998 09 14.37947	00 02 55.06	-06 52 13.5	1998 SB ₂₄	704	2000 DU ₁₁₀	2000 02 29.13108	09 02 22.97	+13 46 53.3	2000 CA ₂₄	18.8	704	
1998 RR ₈₀	1998 09 14.40137	00 02 53.92	-06 52 19.2	1998 SB ₂₄	18.1	704	2000 DU ₁₁₀	2000 02 29.14453	09 02 22.37	+13 46 54.0	2000 CA ₂₄	18.9	704
1998 RR ₈₀	1998 09 14.40147	00 02 53.88	-06 52 19.8	1998 SB ₂₄	704	2000 DU ₁₁₀	2000 02 29.15799	09 02 21.78	+13 46 54.9	2000 CA ₂₄	18.6	704	
1998 UT ₄₇	* 1998 10 18.83424	23 44 33.24	-03 22 27.9	1998 SL ₈₁	21.0 V	910	2000 EA ₁₂₂	* 2000 03 12.27136	10 34 44.33	+15 45 05.6	2000 DE ₁₀₀	19.0	704
1998 UT ₄₇	1998 10 18.85693	23 44 32.50	-03 22 32.2	1998 SL ₈₁	21.1 V	910	2000 EA ₁₂₂	2000 03 12.29693	10 34 42.92	+15 45 12.9	2000 DE ₁₀₀	19.4	704
1998 UT ₄₇	1998 10 18.88228	23 44 31.71	-03 22 38.3	1998 SL ₈₁	20.7 V	910	2000 EA ₁₂₂	2000 03 12.32272	10 34 41.53	+15 45 18.4	2000 DE ₁₀₀	19.5	704
1998 UU ₄₇	* 1998 10 22.92892	03 36 48.13	+13 27 30.6	1998 TA ₃₀	098								
1998 UU ₄₇	1998 10 22.94628	03 36 47.46	+13 27 30.2	1998 TA ₃₀	098								
1998 UV ₄₇	* 1998 10 28.25155	01 45 09.59	+12 01 34.1	1998 SC ₁₄₅	19.2	704							
1998 UV ₄₇	1998 10 28.26733	01 45 08.97	+12 01 29.7	1998 SC ₁₄₅	19.6	704							

NUMBERING OF A PERIODIC COMET

Continuation to the list on MPC 35766.

143P/1984 H1 = 1984 JD = 2000 ET₉₀ (Kowal-Mrkos)

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 012 Uccle. 0.85-m $f/2.5$ Schmidt + CCD. Observer T. Pauwels.
 046 Kleť. 0.57-m $f/5.2$ reflector + CCD. Observers J. Tichá, M. Tichý and Z. Moravec.
 049 Kvistaberg. 1.0-m Schmidt + CCD. Observers T. Oja, O. Karlsson, C.-I. Lagerkvist and J. Warell. Measurers J. Warell, C.-I. Lagerkvist, A. Erikson, G. Hahn and S. Mottola.
 118 Modra. 0.6-m $f/5.5$ reflector + CCD. Observers L. Kornoš, Š. Gajdoš, A. Galád and J. Tóth.
 170 Begues. 0.26-m Schmidt-Cassegrain + CCD. Observer J. Manteca. Measured by S. Alonso.
 171 San Gwann. 0.25-m $f/2.6$ Schmidt-Cassegrain + CCD. Observer S. M. Brincat.
 249 SOHO. SOHO-LASCO coronagraphs C2 and C3. Observers D. A. Biesecker, T. Lovejoy, A. Vourlidas, M. Meyer and J. Shanklin. Measured by D. A. Biesecker and D. Hammer. Reduction by B. G. Marsden.
 300 Bisei Spaceguard Center. 0.50-m $f/2.0$ reflector. Observers A. Asami, S. Hashimoto, Y. Oshima and T. Urata.
 349 Ageo. 0.18-m $f/5.5$ reflector + CCD. Observer K. Kadota.
 351 Sakamoto. 0.15-m $f/7.0$ lens + CCD. Observer Y. Kitamura.
 352 Konan. 0.25-m $f/6$ reflector + CCD. Observer M. Hotta.
 355 Hadano. 0.28-m $f/5.0$ reflector + CCD. Observer A. Asami.
 360 Kuma Kogen. 0.60-m $f/5.8$ Ritchey-Chrétien + CCD. Observer A. Nakamura.
 367 Yatsuka. 0.26-m $f/4.8$ reflector. Observer H. Abe.
 372 Geisei. 0.60-m $f/3.5$ reflector. Observer T. Seki.
 402 Dynic Astronomical Observatory. 0.60-m $f/3.7$ reflector + CCD. Observer A. Sugie.
 504 Le Creusot. 0.40-m $f/5$ reflector + CCD. Observer J. C. Merlin.
 557 Ondřejov. 0.65-m $f/3.6$ reflector + CCD. Observers P. Pravec, L. Šarounová and P. Kušnirák.
 561 Piszkestető. 0.60-m Schmidt + CCD. Observer J. Kelemen.
 610 Pianoro. 0.25-m $f/4$ Schmidt-Cassegrain. Observer V. Goretti.
 611 Starkenburg. 0.45-m $f/4.4$ reflector + CCD. Observers M. Busch, R. Kresken, S. Kluegl, A. Seib and R. Stoss. Measured by M. Busch, R. Stoss and L. Kurtze.
 675 Palomar. 1.2-m Oschin Schmidt. Observer G. Strigl.
 691 Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, R. S. McMillan, J. Scotti, J. Larsen, J. L. Montani, A. E. Gleason and M. T. Read.
 699 LONEOS. 0.59-m Schmidt + CCD. Observers B. A. Skiff and W. Ferris. Measured by B. W. Koehn.
 703 Catalina Sky Survey. 0.41-m $f/3$ Schmidt + CCD. Observer T. B. Spahr.

- 704 LINEAR. 1.0-m $f/2.15$ reflector + CCD. Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz and R. Huber. Measured by J. Stuart, H. Viggh, R. Sayer and J. B. Evans.
 734 Eskridge. 0.30-m Schmidt-Cassegrain + CCD. Observers G. Hug and G. Bell.
 750 Hobbs Observatory, Fall Creek. 0.6-m $f/5$ telescope + CCD. Observer R. Elliott.
 850 Cordell-Lorenz Observatory. 0.3-m $f/5.7$ Schmidt-Cassegrain + CCD. Observer D. T. Durig.
 860 Valinhos. 0.20-m $f/3.3$ reflector + CCD. Observer P. R. Holvorcem.
 900 Moriyama. 0.25-m $f/6.3$ reflector + CCD. Observer Y. Ikari.
 903 Fukuchiyama. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer M. Yoshimi.
 952 Marxuquera. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD. Observer J. J. Gomez D.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
C/1996 H1 (SOHO)						
C/1996 H1	1996 04	29.39733	02 41 31.2	+12 15 46		249
Geocentric position (AU)		+0.00456639	+0.00880198	+0.00358561		
C/1996 H1	1996 04	29.64130	02 39 30.9	+12 40 34		249
Geocentric position (AU)		+0.00453923	+0.00882596	+0.00358877		
C/1996 H1	1996 04	29.84248	02 37 37.7	+13 03 07		249
Geocentric position (AU)		+0.00451698	+0.00884553	+0.00359131		
C/1996 H1	1996 04	29.86021	02 37 26.4	+13 05 26		249
Geocentric position (AU)		+0.00451502	+0.00884725	+0.00359153		
C/1996 H1	1996 04	29.90430	02 36 59.7	+13 10 47		249
Geocentric position (AU)		+0.00451016	+0.00885151	+0.00359207		
C/1996 H1	1996 04	29.96548	02 36 20.8	+13 18 22		249
Geocentric position (AU)		+0.00450343	+0.00885740	+0.00359283		
C/1996 H1	1996 04	30.01641	02 35 46.8	+13 25 04		249
Geocentric position (AU)		+0.00449784	+0.00886230	+0.00359345		
C/1996 H1	1996 04	30.06656	02 35 12.2	+13 32 02		249
Geocentric position (AU)		+0.00449235	+0.00886711	+0.00359405		
C/1996 H1	1996 04	30.11671	02 34 35.7	+13 39 14		249
Geocentric position (AU)		+0.00448686	+0.00887191	+0.00359466		
C/1996 H1	1996 04	30.20231	02 33 29.3	+13 52 25		249
Geocentric position (AU)		+0.00447750	+0.00888008	+0.00359568		
C/1997 H2 (SOHO)						
C/1997 H2	1997 04	29.26471	01 51 55.0	+14 30 47		249
Geocentric position (AU)		+0.00528461	+0.00888574	+0.00336266		
C/1997 H2	1997 04	29.32726	01 52 46.8	+14 32 29		249
Geocentric position (AU)		+0.00527999	+0.00889108	+0.00336327		
C/1997 H2	1997 04	29.38974	01 53 39.7	+14 33 57		249
Geocentric position (AU)		+0.00527538	+0.00889640	+0.00336388		
C/1997 H2	1997 04	29.41951	01 54 04.7	+14 34 37		249
Geocentric position (AU)		+0.00527319	+0.00889893	+0.00336417		
C/1997 H2	1997 04	29.46125	01 54 39.0	+14 35 44		249
Geocentric position (AU)		+0.00527011	+0.00890247	+0.00336457		
C/1997 H2	1997 04	29.51719	01 55 26.0	+14 37 11		249
Geocentric position (AU)		+0.00526598	+0.00890722	+0.00336511		
C/1997 H2	1997 04	29.55057	01 55 55.2	+14 37 58		249
Geocentric position (AU)		+0.00526352	+0.00891005	+0.00336543		

C/1997 H2	1997 04 29.58295	01 56 20.8	+14 38 49	249
Geocentric position (AU)	+0.00526114	+0.00891279	+0.00336574	
C/1997 H2	1997 04 29.62576	01 56 57.9	+14 39 50	249
Geocentric position (AU)	+0.00525799	+0.00891641	+0.00336615	
C/1997 H2	1997 04 29.67942	01 57 42.1	+14 41 07	249
Geocentric position (AU)	+0.00525404	+0.00892094	+0.00336666	
C/1997 H2	1997 04 29.74275	01 58 37.8	+14 42 51	249
Geocentric position (AU)	+0.00524938	+0.00892628	+0.00336726	
C/1997 H2	1997 04 29.78835	01 59 15.7	+14 43 50	249
Geocentric position (AU)	+0.00524603	+0.00893012	+0.00336769	
C/1997 H2	1997 04 29.83687	01 59 58.2	+14 45 02	249
Geocentric position (AU)	+0.00524247	+0.00893420	+0.00336815	
C/1997 H2	1997 04 29.89386	02 00 48.1	+14 46 38	249
Geocentric position (AU)	+0.00523828	+0.00893898	+0.00336869	
C/1997 H2	1997 04 29.93965	02 01 26.1	+14 47 38	249
Geocentric position (AU)	+0.00523492	+0.00894282	+0.00336911	
C/1997 H2	1997 04 29.97448	02 01 56.4	+14 48 21	249
Geocentric position (AU)	+0.00523236	+0.00894574	+0.00336944	
C/1997 H2	1997 04 30.02383	02 02 40.1	+14 49 30	249
Geocentric position (AU)	+0.00522875	+0.00894987	+0.00336990	
C/1997 H2	1997 04 30.07903	02 03 28.0	+14 50 51	249
Geocentric position (AU)	+0.00522470	+0.00895448	+0.00337041	
C/1997 H2	1997 04 30.13972	02 04 20.7	+14 52 20	249
Geocentric position (AU)	+0.00522025	+0.00895955	+0.00337097	
C/1997 H2	1997 04 30.19798	02 05 13.1	+14 53 37	249
Geocentric position (AU)	+0.00521598	+0.00896440	+0.00337151	
C/1997 H2	1997 04 30.26469	02 06 12.2	+14 55 09	249
Geocentric position (AU)	+0.00521110	+0.00896994	+0.00337212	
C/1997 H2	1997 04 30.32717	02 07 07.6	+14 56 33	249
Geocentric position (AU)	+0.00520653	+0.00897513	+0.00337269	
C/1997 H2	1997 04 30.38972	02 08 02.9	+14 57 55	249
Geocentric position (AU)	+0.00520195	+0.00898031	+0.00337326	
C/1997 H2	1997 04 30.41951	02 08 29.8	+14 58 40	249
Geocentric position (AU)	+0.00519977	+0.00898277	+0.00337353	
C/1997 H2	1997 04 30.46117	02 09 06.4	+14 59 28	249
Geocentric position (AU)	+0.00519673	+0.00898622	+0.00337391	
C/1997 H2	1997 04 30.51720	02 09 56.2	+15 00 38	249
Geocentric position (AU)	+0.00519263	+0.00899084	+0.00337441	
C/1997 H2	1997 04 30.57716	02 10 52.1	+15 02 02	249
Geocentric position (AU)	+0.00518825	+0.00899578	+0.00337495	
C/1997 H2	1997 04 30.67944	02 12 23.8	+15 04 10	249
Geocentric position (AU)	+0.00518079	+0.00900419	+0.00337586	
C/1997 H2	1997 04 30.74283	02 13 21.6	+15 05 21	249
Geocentric position (AU)	+0.00517616	+0.00900938	+0.00337642	
C/1997 H2	1997 04 30.78836	02 14 02.9	+15 06 34	249
Geocentric position (AU)	+0.00517284	+0.00901311	+0.00337683	
C/1997 H2	1997 04 30.83687	02 14 47.8	+15 07 42	249
Geocentric position (AU)	+0.00516930	+0.00901708	+0.00337725	
C/1997 H2	1997 04 30.88510	02 15 32.8	+15 08 35	249
Geocentric position (AU)	+0.00516578	+0.00902101	+0.00337768	
C/1997 H2	1997 04 30.95035	02 16 32.2	+15 09 53	249
Geocentric position (AU)	+0.00516103	+0.00902633	+0.00337825	

C/1997 H2	1997 05 01.02023	02 17 38.1	+15 11 14	249
Geocentric position (AU)	+0.00515593	+0.00903201	+0.00337885	
C/1997 H2	1997 05 01.07798	02 18 30.7	+15 12 36	249
Geocentric position (AU)	+0.00515173	+0.00903670	+0.00337935	
C/1997 H2	1997 05 01.13983	02 19 28.2	+15 13 21	249
Geocentric position (AU)	+0.00514722	+0.00904171	+0.00337988	
C/1997 H2	1997 05 01.26469	02 21 26.2	+15 15 58	249
Geocentric position (AU)	+0.00513813	+0.00905180	+0.00338095	
C/1997 H2	1997 05 01.32912	02 22 27.4	+15 16 53	249
Geocentric position (AU)	+0.00513344	+0.00905699	+0.00338150	
C/1997 H2	1997 05 01.38973	02 23 24.2	+15 18 28	249
Geocentric position (AU)	+0.00512903	+0.00906186	+0.00338201	
C/1997 H2	1997 05 01.41951	02 23 52.9	+15 18 25	249
Geocentric position (AU)	+0.00512687	+0.00906425	+0.00338226	
C/1997 H2	1997 05 01.46187	02 24 33.8	+15 19 25	249
Geocentric position (AU)	+0.00512378	+0.00906765	+0.00338262	
C/1997 H2	1997 05 01.51718	02 25 27.2	+15 20 22	249
Geocentric position (AU)	+0.00511976	+0.00907207	+0.00338308	
C/1997 H2	1997 05 01.57715	02 26 24.6	+15 21 03	249
Geocentric position (AU)	+0.00511540	+0.00907686	+0.00338358	
C/1997 H2	1997 05 01.59728	02 26 46.7	+15 21 34	249
Geocentric position (AU)	+0.00511393	+0.00907847	+0.00338375	
C/1997 H2	1997 05 01.61813	02 27 06.6	+15 22 00	249
Geocentric position (AU)	+0.00511242	+0.00908014	+0.00338392	
C/1997 H2	1997 05 01.62576	02 27 09.9	+15 21 34	249
Geocentric position (AU)	+0.00511187	+0.00908074	+0.00338398	
C/1997 H2	1997 05 01.64868	02 27 34.3	+15 22 12	249
Geocentric position (AU)	+0.00511020	+0.00908257	+0.00338417	
C/1997 H2	1997 05 01.67820	02 28 00.3	+15 23 26	249
Geocentric position (AU)	+0.00510805	+0.00908492	+0.00338441	
C/1997 H2	1997 05 01.68327	02 28 08.0	+15 23 13	249
Geocentric position (AU)	+0.00510768	+0.00908532	+0.00338446	
C/1997 H2	1997 05 01.70631	02 28 30.0	+15 23 36	249
Geocentric position (AU)	+0.00510601	+0.00908716	+0.00338465	
C/1997 H2	1997 05 01.74551	02 29 06.2	+15 24 09	249
Geocentric position (AU)	+0.00510316	+0.00909027	+0.00338497	
C/1997 H2	1997 05 01.78590	02 29 44.3	+15 24 59	249
Geocentric position (AU)	+0.00510023	+0.00909347	+0.00338530	
C/1997 H2	1997 05 01.80701	02 30 04.2	+15 25 20	249
Geocentric position (AU)	+0.00509869	+0.00909514	+0.00338547	
C/1997 H2	1997 05 01.82604	02 30 22.9	+15 25 35	249
Geocentric position (AU)	+0.00509731	+0.00909665	+0.00338562	
C/1997 H2	1997 05 01.83777	02 30 33.5	+15 25 54	249
Geocentric position (AU)	+0.00509646	+0.00909758	+0.00338572	
C/1997 H2	1997 05 01.86842	02 31 03.2	+15 26 23	249
Geocentric position (AU)	+0.00509423	+0.00910001	+0.00338597	
C/1997 H2	1997 05 01.89723	02 31 30.9	+15 27 00	249
Geocentric position (AU)	+0.00509214	+0.00910228	+0.00338620	
C/1997 H2	1997 05 01.91714	02 31 50.4	+15 27 14	249
Geocentric position (AU)	+0.00509069	+0.00910385	+0.00338636	
C/1997 H2	1997 05 01.94901	02 32 25.3	+15 27 28	249
Geocentric position (AU)	+0.00508838	+0.00910637	+0.00338662	

C/1997 H2	1997 05 01.98204	02 32 57.3	+15 28 00	249
Geocentric position (AU)	+0.00508598	+0.00910897	+0.00338688	
C/1997 H2	1997 05 02.47925	02 41 08.5	+15 34 54	249
Geocentric position (AU)	+0.00504988	+0.00914778	+0.00339079	
C/1997 H2	1997 05 02.53344	02 42 01.8	+15 35 27	249
Geocentric position (AU)	+0.00504594	+0.00915197	+0.00339120	
C/1997 H2	1997 05 02.56951	02 42 37.6	+15 36 02	249
Geocentric position (AU)	+0.00504333	+0.00915475	+0.00339148	
C/1997 H2	1997 05 02.59729	02 43 04.8	+15 36 19	249
Geocentric position (AU)	+0.00504131	+0.00915689	+0.00339169	
C/1997 H2	1997 05 02.61814	02 43 25.8	+15 36 33	249
Geocentric position (AU)	+0.00503980	+0.00915850	+0.00339185	
C/1997 H2	1997 05 02.64561	02 43 53.0	+15 36 51	249
Geocentric position (AU)	+0.00503780	+0.00916061	+0.00339206	
C/1997 H2	1997 05 02.66758	02 44 14.9	+15 37 12	249
Geocentric position (AU)	+0.00503621	+0.00916230	+0.00339222	
C/1997 H2	1997 05 02.68784	02 44 35.1	+15 37 24	249
Geocentric position (AU)	+0.00503474	+0.00916385	+0.00339237	
C/1997 H2	1997 05 02.71535	02 45 02.2	+15 37 45	249
Geocentric position (AU)	+0.00503274	+0.00916596	+0.00339258	
C/1997 H2	1997 05 02.74596	02 45 32.7	+15 38 04	249
Geocentric position (AU)	+0.00503052	+0.00916831	+0.00339281	
C/1997 H2	1997 05 02.78655	02 46 13.4	+15 38 35	249
Geocentric position (AU)	+0.00502758	+0.00917142	+0.00339311	
C/1997 H2	1997 05 02.88985	02 47 54.5	+15 39 49	249
Geocentric position (AU)	+0.00502009	+0.00917930	+0.00339388	
C/1997 H2	1997 05 02.95778	02 49 02.5	+15 40 05	249
Geocentric position (AU)	+0.00501516	+0.00918446	+0.00339438	
C/1997 H2	1997 05 03.02025	02 50 03.5	+15 41 04	249
Geocentric position (AU)	+0.00501063	+0.00918920	+0.00339483	
C/1997 H2	1997 05 03.07715	02 51 00.6	+15 41 35	249
Geocentric position (AU)	+0.00500650	+0.00919351	+0.00339525	
C/1997 H2	1997 05 03.13973	02 52 02.1	+15 42 12	249
Geocentric position (AU)	+0.00500196	+0.00919823	+0.00339570	
C/1997 H2	1997 05 03.26469	02 54 04.5	+15 43 29	249
Geocentric position (AU)	+0.00499289	+0.00920763	+0.00339659	
C/1997 H2	1997 05 03.32911	02 55 07.7	+15 43 43	249
Geocentric position (AU)	+0.00498822	+0.00921245	+0.00339704	
C/1997 H2	1997 05 03.38973	02 56 08.2	+15 43 52	249
Geocentric position (AU)	+0.00498382	+0.00921698	+0.00339747	
C/1997 H2	1997 05 03.46196	02 57 19.0	+15 44 59	249
Geocentric position (AU)	+0.00497859	+0.00922237	+0.00339797	
C/1997 H2	1997 05 03.51720	02 58 10.8	+15 45 23	249
Geocentric position (AU)	+0.00497458	+0.00922647	+0.00339835	
C/1997 H2	1997 05 03.57715	02 59 09.6	+15 45 50	249
Geocentric position (AU)	+0.00497023	+0.00923091	+0.00339876	
C/1997 H2	1997 05 03.62576	02 59 56.9	+15 46 22	249
Geocentric position (AU)	+0.00496671	+0.00923451	+0.00339909	
C/1997 H2	1997 05 03.67949	03 00 48.5	+15 46 40	249
Geocentric position (AU)	+0.00496281	+0.00923847	+0.00339946	
C/1997 H2	1997 05 03.74288	03 01 48.8	+15 47 03	249
Geocentric position (AU)	+0.00495821	+0.00924314	+0.00339989	

C/1997 H2	1997 05 03.83005	03 03 11.8	+15 47 35	249
Geocentric position (AU)	+0.00495189	+0.00924953	+0.00340047	
C/1997 H2	1997 05 03.83687	03 03 19.4	+15 47 45	249
Geocentric position (AU)	+0.00495140	+0.00925003	+0.00340051	
C/1997 H2	1997 05 03.89391	03 04 12.6	+15 48 10	249
Geocentric position (AU)	+0.00494726	+0.00925420	+0.00340089	
C/1997 H2	1997 05 03.94798	03 05 05.6	+15 48 29	249
Geocentric position (AU)	+0.00494334	+0.00925814	+0.00340124	
C/1997 H2	1997 05 03.98969	03 05 43.2	+15 48 47	249
Geocentric position (AU)	+0.00494031	+0.00926117	+0.00340151	
C/1997 H2	1997 05 04.03131	03 06 21.7	+15 48 53	249
Geocentric position (AU)	+0.00493730	+0.00926420	+0.00340178	
C/1997 H2	1997 05 04.07993	03 07 07.7	+15 49 10	249
Geocentric position (AU)	+0.00493377	+0.00926772	+0.00340210	
C/1997 H2	1997 05 04.12646	03 07 51.2	+15 49 34	249
Geocentric position (AU)	+0.00493040	+0.00927108	+0.00340240	
C/1997 H2	1997 05 04.15979	03 08 22.9	+15 49 53	249
Geocentric position (AU)	+0.00492798	+0.00927349	+0.00340261	
C/1997 H2	1997 05 04.19659	03 08 56.4	+15 49 59	249
Geocentric position (AU)	+0.00492531	+0.00927614	+0.00340284	
C/1997 H2	1997 05 04.23965	03 09 35.7	+15 50 00	249
Geocentric position (AU)	+0.00492219	+0.00927923	+0.00340311	
C/1997 H2	1997 05 04.28136	03 10 15.3	+15 50 20	249
Geocentric position (AU)	+0.00491917	+0.00928222	+0.00340337	
C/1997 H2	1997 05 04.33757	03 11 02.7	+15 50 27	249
Geocentric position (AU)	+0.00491509	+0.00928625	+0.00340372	
C/1997 H2	1997 05 04.42099	03 12 22.1	+15 51 11	249
Geocentric position (AU)	+0.00490905	+0.00929220	+0.00340424	
C/1997 H2	1997 05 04.45909	03 12 56.7	+15 51 42	249
Geocentric position (AU)	+0.00490629	+0.00929491	+0.00340447	
C/1997 H2	1997 05 04.50080	03 13 34.6	+15 51 33	249
Geocentric position (AU)	+0.00490326	+0.00929787	+0.00340473	
C/1997 H2	1997 05 04.53548	03 14 04.6	+15 52 21	249
Geocentric position (AU)	+0.00490075	+0.00930033	+0.00340494	
C/1997 H2	1997 05 04.58758	03 14 54.5	+15 52 09	249
Geocentric position (AU)	+0.00489698	+0.00930401	+0.00340525	
C/1997 H2	1997 05 04.67367	03 16 10.3	+15 52 21	249
Geocentric position (AU)	+0.00489074	+0.00931008	+0.00340576	
C/1997 H2	1997 05 04.69798	03 16 31.1	+15 52 37	249
Geocentric position (AU)	+0.00488898	+0.00931178	+0.00340590	
C/1997 H2	1997 05 04.76543	03 17 32.8	+15 52 54	249
Geocentric position (AU)	+0.00488409	+0.00931651	+0.00340630	
C/1997 H2	1997 05 04.82646	03 18 20.9	+15 52 32	249
Geocentric position (AU)	+0.00487967	+0.00932077	+0.00340665	
C/1997 H2	1997 05 04.88757	03 19 15.8	+15 52 25	249
Geocentric position (AU)	+0.00487524	+0.00932503	+0.00340700	
C/1997 H2	1997 05 04.95145	03 20 13.4	+15 53 28	249
Geocentric position (AU)	+0.00487062	+0.00932946	+0.00340737	
C/1997 H2	1997 05 04.98965	03 20 46.1	+15 53 37	249
Geocentric position (AU)	+0.00486785	+0.00933211	+0.00340758	
C/1997 H2	1997 05 05.03131	03 21 22.7	+15 53 13	249
Geocentric position (AU)	+0.00486484	+0.00933499	+0.00340782	

C/1997 H2	1997 05 05.07992	03 22 04.2	+15 54 02	249
Geocentric position (AU)	+0.00486132	+0.00933834	+0.00340809	
C/1997 H2	1997 05 05.12645	03 22 43.9	+15 53 44	249
Geocentric position (AU)	+0.00485795	+0.00934153	+0.00340834	
C/1997 H2	1997 05 05.15979	03 23 08.1	+15 53 58	249
Geocentric position (AU)	+0.00485554	+0.00934382	+0.00340853	
C/1997 H2	1997 05 05.19675	03 23 41.3	+15 54 29	249
Geocentric position (AU)	+0.00485286	+0.00934635	+0.00340873	

C/1998 M5 (LINEAR)

C/1998 M5	2000 03 14.54088	09 28 19.07	-21 45 14.5	900
C/1998 M5	2000 03 14.55372	09 28 18.54	-21 45 11.6	900
C/1998 M5	2000 03 25.52778	09 19 52.20	-21 07 05.4	360
C/1998 M5	2000 03 25.53021	09 19 52.10	-21 07 04.6	360
C/1998 M5	2000 04 06.51107	09 13 04.09	-20 21 01.5	900
C/1998 M5	2000 04 06.52387	09 13 03.63	-20 20 58.7	900
C/1998 M5	2000 04 07.00516	09 12 50.46	-20 19 07.2	860
C/1998 M5	2000 04 07.01878	09 12 50.11	-20 19 02.2	860
C/1998 M5	2000 04 07.03410	09 12 49.72	-20 19 00.4	860

C/1998 T1 (LINEAR)

C/1998 T1	2000 03 08.68309	12 37 15.18	-11 58 17.1	349
C/1998 T1	2000 03 08.69308	12 37 13.95	-11 58 09.2	349
C/1998 T1	2000 03 08.69441	12 37 13.84	-11 58 07.4	349
C/1998 T1	2000 03 12.26861	12 30 00.58	-11 09 30.2	699
C/1998 T1	2000 03 12.28916	12 29 58.08	-11 09 13.0	699
C/1998 T1	2000 03 12.30964	12 29 55.61	-11 08 57.0	699
C/1998 T1	2000 03 12.33016	12 29 53.01	-11 08 39.3	699
C/1998 T1	2000 03 14.65374	12 25 11.44	-10 36 15.7	900
C/1998 T1	2000 03 14.66642	12 25 09.96	-10 36 05.4	900
C/1998 T1	2000 03 17.59209	12 19 17.94	-09 54 39.8	903
C/1998 T1	2000 03 17.60106	12 19 16.93	-09 54 30.9	903
C/1998 T1	2000 03 31.94711	11 52 05.41	-06 29 56.1	170
C/1998 T1	2000 03 31.95234	11 52 04.92	-06 29 54.0	170
C/1998 T1	2000 03 31.95858	11 52 04.19	-06 29 48.1	170
C/1998 T1	2000 03 31.96314	11 52 03.71	-06 29 43.1	170
C/1998 T1	2000 04 01.56769	11 51 00.13	-06 21 20.6	352
C/1998 T1	2000 04 01.57269	11 50 59.55	-06 21 16.3	352
C/1998 T1	2000 04 05.94109	11 43 35.89	-05 21 49.1	170
C/1998 T1	2000 04 06.96316	11 41 56.34	-05 08 15.9	170
C/1998 T1	2000 04 07.21846	11 41 31.82	-05 04 52.4	704
C/1998 T1	2000 04 07.23403	11 41 30.24	-05 04 40.1	704
C/1998 T1	2000 04 07.25021	11 41 28.69	-05 04 27.5	704
C/1998 T1	2000 04 07.26650	11 41 27.10	-05 04 12.9	704
C/1998 T1	2000 04 07.28139	11 41 25.65	-05 04 01.2	704
C/1998 T1	2000 04 08.20738	11 39 57.56	-04 51 55.8	704
C/1998 T1	2000 04 08.22209	11 39 56.06	-04 51 44.3	704
C/1998 T1	2000 04 08.23942	11 39 54.40	-04 51 32.1	704
C/1998 T1	2000 04 08.25514	11 39 52.95	-04 51 19.3	704
C/1998 T1	2000 04 08.26933	11 39 51.63	-04 51 07.3	704
C/1998 T1	2000 04 10.21127	11 36 51.34	-04 26 09.8	704
C/1998 T1	2000 04 10.25988	11 36 46.86	-04 25 33.5	704
C/1998 T1	2000 04 10.27408	11 36 45.49	-04 25 22.5	704
C/1998 T1	2000 04 11.54986	11 34 50.65	-04 09 18.5	352

C/1998 T1	2000 04 11.55403	11 34 50.27	-04 09 15.0	352
C/1998 T1	2000 04 11.55819	11 34 49.94	-04 09 11.5	352

C/1999 E1 (Li)

C/1999 E1	2000 03 01.56130	10 18 58.19	+36 01 17.4	16.2 T	900
C/1999 E1	2000 03 01.57397	10 18 57.78	+36 01 22.8		900
C/1999 E1	2000 03 08.72288	10 15 21.72	+36 44 08.4		349
C/1999 E1	2000 03 08.74134	10 15 21.18	+36 44 13.9		349
C/1999 E1	2000 03 08.74285	10 15 21.06	+36 44 15.0	16.5 T	349
C/1999 E1	2000 03 25.54236	10 08 33.75	+37 51 52.4		355
C/1999 E1	2000 03 25.55311	10 08 33.47	+37 51 54.3		355
C/1999 E1	2000 03 25.55513	10 08 33.48	+37 51 55.1		355
C/1999 E1	2000 03 27.57817	10 07 57.10	+37 57 03.3	16.1 T	900
C/1999 E1	2000 03 27.59439	10 07 56.82	+37 57 06.9		900
C/1999 E1	2000 03 30.58056	10 07 09.04	+38 03 38.4	16.8 T	360
C/1999 E1	2000 03 30.58542	10 07 09.00	+38 03 39.1		360
C/1999 E1	2000 03 31.90793	10 06 50.06	+38 06 06.0	17.5 N	170
C/1999 E1	2000 04 01.58149	10 06 40.97	+38 07 16.3		903
C/1999 E1	2000 04 01.59361	10 06 40.71	+38 07 16.9	16.5 T	903
C/1999 E1	2000 04 05.91528	10 05 51.68	+38 13 18.7	17.4 T	170
C/1999 E1	2000 04 06.54100	10 05 46.09	+38 13 59.8	16.0 T	900
C/1999 E1	2000 04 06.55364	10 05 45.98	+38 14 00.0		900
C/1999 E1	2000 04 06.93640	10 05 42.28	+38 14 19.9	17.1 T	170

C/1999 F1 (Catalina)

C/1999 F1	2000 04 07.08597	12 37 08.28	-27 10 30.2	18.0 T	860
C/1999 F1	2000 04 07.09719	12 37 07.72	-27 10 31.5	18.0 T	860

C/1999 F2 (Dalcanton)

C/1999 F2	2000 04 08.78932	17 32 23.36	+24 16 26.2	18.0 T	402
C/1999 F2	2000 04 08.79376	17 32 23.48	+24 16 30.7		402
C/1999 F2	2000 04 08.79598	17 32 23.40	+24 16 31.6		402

C/1999 H1 (Lee)

C/1999 H1	1999 10 18.22238	23 04 40.51	+29 47 06.3	13.8 T	699
C/1999 H1	1999 10 18.24274	23 04 36.26	+29 45 35.9		699
C/1999 H1	1999 10 18.26312	23 04 31.90	+29 44 05.8		699

C/1999 H3 (LINEAR)

C/1999 H3	2000 02 11.80955	13 53 56.40	+38 20 10.4	14.8 T	372
C/1999 H3	2000 02 15.76424	13 47 23.98	+39 02 09.2	15.2 T	372
C/1999 H3	2000 03 01.72469	13 17 32.29	+41 19 50.3	14.5 T	900
C/1999 H3	2000 03 01.73731	13 17 30.56	+41 19 55.8		900
C/1999 H3	2000 03 08.75308	13 01 11.98	+42 04 33.2		349
C/1999 H3	2000 03 08.75572	13 01 11.59	+42 04 34.3		349
C/1999 H3	2000 03 08.76586	13 01 10.16	+42 04 37.2	14.8 T	349
C/1999 H3	2000 03 12.54271	12 52 00.37	+42 21 25.4		349
C/1999 H3	2000 03 12.54484	12 52 00.06	+42 21 24.9		349
C/1999 H3	2000 03 12.63599	12 51 46.56	+42 21 45.9	14.5 T	349
C/1999 H3	2000 03 12.69718	12 51 37.55	+42 22 00.0		900
C/1999 H3	2000 03 12.70541	12 51 36.27	+42 22 01.8	14.1 T	900
C/1999 H3	2000 03 14.72491	12 46 37.96	+42 28 36.3		900
C/1999 H3	2000 03 14.73403	12 46 36.56	+42 28 37.7	14.1 T	900
C/1999 H3	2000 03 17.59302	12 39 32.00	+42 35 08.0	14.5 T	900
C/1999 H3	2000 03 17.60224	12 39 30.59	+42 35 08.8		900

2000 APR. 18

M.P.C. 39705

C/1999 H3	2000 03 17.64785	12 39 23.70	+42 35 12.9	14.4 T	903
C/1999 H3	2000 03 17.66303	12 39 21.39	+42 35 13.9		903
C/1999 H3	2000 03 19.74693	12 34 11.37	+42 37 49.2		349
C/1999 H3	2000 03 19.75145	12 34 10.66	+42 37 50.5		349
C/1999 H3	2000 03 19.75840	12 34 09.58	+42 37 50.4	14.8 T	349
C/1999 H3	2000 03 22.45795	12 27 29.46	+42 38 30.0	14.5 T	300
C/1999 H3	2000 03 22.45887	12 27 29.32	+42 38 29.1	14.8 T	300
C/1999 H3	2000 03 22.46133	12 27 28.92	+42 38 30.2	15.1 T	300
C/1999 H3	2000 03 22.65365	12 27 00.57	+42 38 27.1		903
C/1999 H3	2000 03 22.66065	12 26 59.54	+42 38 26.7		903
C/1999 H3	2000 03 22.66766	12 26 58.40	+42 38 27.0		903
C/1999 H3	2000 03 22.74682	12 26 46.58	+42 38 25.4	15.0 T	349
C/1999 H3	2000 03 22.75179	12 26 45.90	+42 38 25.1		349
C/1999 H3	2000 03 22.75292	12 26 45.70	+42 38 25.6		349
C/1999 H3	2000 03 23.93564	12 23 51.79	+42 37 36.6	14.7 T	049
C/1999 H3	2000 03 23.93920	12 23 51.28	+42 37 36.8	14.7 T	049
C/1999 H3	2000 03 23.94052	12 23 50.85	+42 37 38.7	13.5 T	171
C/1999 H3	2000 03 23.94248	12 23 50.74	+42 37 35.6	14.6 T	049
C/1999 H3	2000 03 23.97037	12 23 46.52	+42 37 38.4	13.5 T	171
C/1999 H3	2000 03 24.97589	12 21 19.14	+42 36 29.4	14.9 N	170
C/1999 H3	2000 03 24.99881	12 21 15.81	+42 36 26.4	14.5 N	170
C/1999 H3	2000 03 25.50263	12 20 02.36	+42 35 43.4	14.8 T	349
C/1999 H3	2000 03 25.50415	12 20 02.13	+42 35 44.2		349
C/1999 H3	2000 03 25.51072	12 20 01.19	+42 35 44.1		349
C/1999 H3	2000 03 25.58506	12 19 50.29	+42 35 36.2	15.0 T	355
C/1999 H3	2000 03 25.58852	12 19 49.78	+42 35 35.8		355
C/1999 H3	2000 03 25.59383	12 19 48.97	+42 35 35.7		355
C/1999 H3	2000 03 26.26676	12 18 11.24	+42 34 23.8	17.0 T	704
C/1999 H3	2000 03 26.29565	12 18 06.69	+42 34 24.1	17.2 T	704
C/1999 H3	2000 03 26.31006	12 18 04.48	+42 34 20.9	16.8 T	704
C/1999 H3	2000 03 26.32449	12 18 01.91	+42 34 18.2	16.8 T	704
C/1999 H3	2000 03 27.54524	12 15 06.30	+42 31 46.0	14.7 T	900
C/1999 H3	2000 03 27.55797	12 15 04.45	+42 31 43.7		900
C/1999 H3	2000 03 29.30480	12 10 54.51	+42 27 02.4	17.8 T	750
C/1999 H3	2000 03 29.30974	12 10 53.84	+42 27 01.0	17.6 T	750
C/1999 H3	2000 03 29.85307	12 09 37.00	+42 25 17.4	15.7 N	170
C/1999 H3	2000 03 29.86319	12 09 35.59	+42 25 16.2	15.5 N	170
C/1999 H3	2000 03 30.63271	12 07 46.99	+42 22 39.0		903
C/1999 H3	2000 03 30.63638	12 07 46.64	+42 22 39.0		903
C/1999 H3	2000 03 30.64332	12 07 45.59	+42 22 38.4	14.9 T	903
C/1999 H3	2000 03 31.84014	12 04 58.71	+42 18 06.7	16.2 N	170
C/1999 H3	2000 03 31.84852	12 04 57.52	+42 18 05.4	16.2 N	170
C/1999 H3	2000 03 31.87308	12 04 54.03	+42 17 59.1	16.1 N	170
C/1999 H3	2000 03 31.89731	12 04 50.66	+42 17 54.0	16.2 N	170
C/1999 H3	2000 04 01.58098	12 03 16.18	+42 15 04.7		352
C/1999 H3	2000 04 01.58443	12 03 15.68	+42 15 04.4		352
C/1999 H3	2000 04 01.71737	12 02 57.28	+42 14 29.3		903
C/1999 H3	2000 04 01.72128	12 02 56.68	+42 14 28.9		903
C/1999 H3	2000 04 01.75468	12 02 52.17	+42 14 19.6	15.0 T	903
C/1999 H3	2000 04 01.90923	12 02 31.14	+42 13 40.3	15.2 T	610
C/1999 H3	2000 04 01.91270	12 02 30.64	+42 13 39.2		610
C/1999 H3	2000 04 01.91617	12 02 30.14	+42 13 38.1		610
C/1999 H3	2000 04 01.91964	12 02 29.64	+42 13 37.1		610

C/1999 H3	2000 04 03.53471	11 58 50.18	+42 06 05.5	14.5 T	367
C/1999 H3	2000 04 03.53715	11 58 49.81	+42 06 04.5		367
C/1999 H3	2000 04 03.53958	11 58 49.47	+42 06 03.9		367
C/1999 H3	2000 04 05.84558	11 53 43.56	+41 53 44.6	15.6 N	1 170
C/1999 H3	2000 04 05.85803	11 53 41.95	+41 53 40.1	15.8 N	1 170
C/1999 H3	2000 04 05.87384	11 53 39.82	+41 53 34.6	15.8 N	1 170
C/1999 H3	2000 04 06.47449	11 52 21.68	+41 50 05.2	15.4 T	300
C/1999 H3	2000 04 06.47725	11 52 21.44	+41 50 03.3		300
C/1999 H3	2000 04 06.47817	11 52 21.18	+41 50 02.8		300
C/1999 H3	2000 04 06.54917	11 52 11.90	+41 49 37.3	15.4 T	351
C/1999 H3	2000 04 06.55425	11 52 11.34	+41 49 36.1		351
C/1999 H3	2000 04 06.56407	11 52 10.12	+41 49 33.8		351
C/1999 H3	2000 04 06.56905	11 52 09.38	+41 49 31.0	14.3 T	900
C/1999 H3	2000 04 06.57819	11 52 08.19	+41 49 28.0		900
C/1999 H3	2000 04 06.82205	11 51 36.84	+41 47 58.8		611
C/1999 H3	2000 04 06.82813	11 51 35.99	+41 47 57.6		611
C/1999 H3	2000 04 06.85890	11 51 32.03	+41 47 45.8	16.2 N	170
C/1999 H3	2000 04 06.87512	11 51 29.90	+41 47 39.9	16.1 N	170
C/1999 H3	2000 04 06.92025	11 51 24.09	+41 47 24.1	16.6 N	170
C/1999 H3	2000 04 10.22313	11 44 29.55	+41 25 36.8	14.2 T	699
C/1999 H3	2000 04 10.24243	11 44 27.15	+41 25 28.3		699
C/1999 H3	2000 04 10.26167	11 44 24.70	+41 25 21.3		699
C/1999 H3	2000 04 10.28097	11 44 22.54	+41 25 12.2		699
C/1999 H3	2000 04 11.07454	11 42 45.72	+41 19 31.0	16.1 T	012
C/1999 H3	2000 04 11.07595	11 42 45.57	+41 19 30.7	16.2 T	012
C/1999 H3	2000 04 11.07771	11 42 45.33	+41 19 29.4	16.3 T	012
C/1999 H3	2000 04 11.07970	11 42 45.08	+41 19 28.7	16.3 T	012
C/1999 H3	2000 04 11.08109	11 42 44.91	+41 19 28.0	16.2 T	012
C/1999 H3	2000 04 11.08248	11 42 44.76	+41 19 27.4	16.4 T	012
C/1999 H3	2000 04 12.69236	11 39 33.29	+41 07 20.4	14.7 T	360
C/1999 H3	2000 04 12.69479	11 39 32.99	+41 07 19.5		360
C/1999 H3	2000 04 12.82277	11 39 18.38	+41 06 20.2	16.6 N	170
C/1999 H3	2000 04 12.86302	11 39 13.47	+41 06 00.6	16.0 N	170
C/1999 H3	2000 04 12.93566	11 39 05.08	+41 05 27.4	16.0 N	170
C/1999 H3	2000 04 13.84409	11 37 20.03	+40 58 15.0	16.5 N	170
C/1999 H3	2000 04 16.48432	11 32 24.34	+40 36 11.8	15.0 T	900
C/1999 H3	2000 04 16.49712	11 32 22.93	+40 36 05.1		900

C/1999 J2 (Skiff)

C/1999 J2	2000 03 08.77184	16 37 50.45	+36 41 34.4		349
C/1999 J2	2000 03 08.77492	16 37 50.48	+36 41 34.7		349
C/1999 J2	2000 03 08.77807	16 37 50.46	+36 41 35.6	15.3 T	349
C/1999 J2	2000 03 19.76670	16 34 44.41	+37 15 42.1		349
C/1999 J2	2000 03 19.77185	16 34 44.26	+37 15 43.2		349
C/1999 J2	2000 03 19.77293	16 34 44.21	+37 15 43.6	15.5 T	349
C/1999 J2	2000 03 22.75933	16 33 37.15	+37 24 33.2		349
C/1999 J2	2000 03 22.76076	16 33 37.15	+37 24 33.3		349
C/1999 J2	2000 03 22.76368	16 33 37.09	+37 24 33.0	15.5 T	349
C/1999 J2	2000 03 24.77345	16 32 48.05	+37 30 18.8		349
C/1999 J2	2000 03 24.77619	16 32 47.90	+37 30 19.8		349
C/1999 J2	2000 03 24.78094	16 32 47.83	+37 30 19.7	15.4 T	349
C/1999 J2	2000 03 25.03118	16 32 41.62	+37 31 00.1	16.3 N	2 170
C/1999 J2	2000 03 29.07995	16 30 52.25	+37 42 01.4	15.6 T	049

C/1999 J2	2000 03 29.08694	16 30 52.04	+37 42 04.2	15.4 T	049
C/1999 J2	2000 03 29.09388	16 30 51.86	+37 42 04.1	15.5 T	049
C/1999 J2	2000 03 30.72847	16 30 04.25	+37 46 16.7	15.8 T	360
C/1999 J2	2000 03 30.73125	16 30 04.17	+37 46 17.1		360
C/1999 J2	2000 04 01.07755	16 29 23.36	+37 49 36.5	15.7 T	049
C/1999 J2	2000 04 01.08403	16 29 23.16	+37 49 37.7	15.7 T	049
C/1999 J2	2000 04 01.09149	16 29 22.91	+37 49 38.9	15.7 T	049
C/1999 J2	2000 04 01.77302	16 29 01.79	+37 51 18.7		903
C/1999 J2	2000 04 01.78852	16 29 01.21	+37 51 20.5	15.6 T	903
C/1999 J2	2000 04 05.95807	16 26 44.43	+38 00 41.1	17.2 N	170
C/1999 J2	2000 04 07.25477	16 25 59.26	+38 03 22.4	15.5 T	860
C/1999 J2	2000 04 07.29207	16 25 57.90	+38 03 26.5	15.6 T	860
C/1999 J2	2000 04 07.31950	16 25 56.89	+38 03 30.1	15.5 T	860
C/1999 J2	2000 04 07.74222	16 25 41.96	+38 04 18.4	15.5 T	903
C/1999 J2	2000 04 07.74847	16 25 41.74	+38 04 19.8		903
C/1999 J2	2000 04 07.93958	16 25 34.94	+38 04 41.1		611
C/1999 J2	2000 04 07.94997	16 25 34.65	+38 04 42.2		611
C/1999 J2	2000 04 11.74044	16 23 14.41	+38 11 22.1	15.4 T	402
C/1999 J2	2000 04 11.74296	16 23 14.31	+38 11 22.0		402
C/1999 J2	2000 04 11.74549	16 23 14.24	+38 11 22.6		402
C/1999 J2	2000 04 12.70347	16 22 37.34	+38 12 51.2	15.7 T	360
C/1999 J2	2000 04 12.70660	16 22 37.21	+38 12 51.6		360
C/1999 J2	2000 04 14.97397	16 21 07.61	+38 15 59.8		118
C/1999 J2	2000 04 14.98240	16 21 07.26	+38 16 00.7	15.3 T	118

C/1999 J6 (SOHO)

C/1999 J6	1999 05 10.72646	03 04 57.1	+15 48 19		249
Geocentric position (AU)	+0.00676711	+0.00861305	+0.00274672		
C/1999 J6	1999 05 10.74958	03 05 21.1	+15 52 48		249
Geocentric position (AU)	+0.00676646	+0.00861382	+0.00274694		
C/1999 J6	1999 05 10.76273	03 05 35.6	+15 55 31		249
Geocentric position (AU)	+0.00676609	+0.00861425	+0.00274706		
C/1999 J6	1999 05 10.78075	03 05 53.9	+15 59 07		249
Geocentric position (AU)	+0.00676558	+0.00861485	+0.00274723		
C/1999 J6	1999 05 10.83252	03 06 48.8	+16 09 18		249
Geocentric position (AU)	+0.00676411	+0.00861656	+0.00274773		
C/1999 J6	1999 05 10.85080	03 07 08.8	+16 12 55		249
Geocentric position (AU)	+0.00676359	+0.00861716	+0.00274790		
C/1999 J6	1999 05 10.90979	03 08 13.3	+16 24 34		249
Geocentric position (AU)	+0.00676191	+0.00861911	+0.00274847		
C/1999 J6	1999 05 10.93479	03 08 39.0	+16 30 10		249
Geocentric position (AU)	+0.00676120	+0.00861993	+0.00274871		
C/1999 J6	1999 05 10.97645	03 09 23.7	+16 39 02		249
Geocentric position (AU)	+0.00676001	+0.00862131	+0.00274911		
C/1999 J6	1999 05 10.99312	03 09 42.4	+16 42 21		249
Geocentric position (AU)	+0.00675953	+0.00862186	+0.00274928		
C/1999 J6	1999 05 11.00423	03 09 54.1	+16 44 48		249
Geocentric position (AU)	+0.00675922	+0.00862222	+0.00274938		
C/1999 J6	1999 05 11.01812	03 10 10.0	+16 47 30		249
Geocentric position (AU)	+0.00675882	+0.00862268	+0.00274952		
C/1999 J6	1999 05 11.03479	03 10 27.4	+16 51 16		249
Geocentric position (AU)	+0.00675834	+0.00862323	+0.00274968		

C/1999 J6	1999 05 11.06030	03 10 55.7	+16 56 29		249
Geocentric position (AU)	+0.00675761	+0.00862407	+0.00274993		
C/1999 J6	1999 05 11.07647	03 11 12.6	+16 59 45		249
Geocentric position (AU)	+0.00675714	+0.00862460	+0.00275009		
C/1999 J6	1999 05 11.08758	03 11 24.3	+17 02 10		249
Geocentric position (AU)	+0.00675682	+0.00862496	+0.00275019		
C/1999 J6	1999 05 11.10145	03 11 38.5	+17 05 45		249
Geocentric position (AU)	+0.00675643	+0.00862542	+0.00275033		
C/1999 J6	1999 05 11.11812	03 11 58.3	+17 09 16		249
Geocentric position (AU)	+0.00675595	+0.00862597	+0.00275049		
C/1999 J6	1999 05 11.12923	03 12 10.3	+17 11 44		249
Geocentric position (AU)	+0.00675563	+0.00862633	+0.00275060		
C/1999 J6	1999 05 11.14312	03 12 26.3	+17 14 37		249
Geocentric position (AU)	+0.00675523	+0.00862679	+0.00275074		
C/1999 J6	1999 05 11.15979	03 12 43.3	+17 18 31		249
Geocentric position (AU)	+0.00675474	+0.00862733	+0.00275090		
C/1999 J6	1999 05 11.18480	03 13 10.8	+17 23 52		249
Geocentric position (AU)	+0.00675402	+0.00862815	+0.00275115		
C/1999 J6	1999 05 11.20145	03 13 29.3	+17 27 33		249
Geocentric position (AU)	+0.00675354	+0.00862870	+0.00275131		
C/1999 J6	1999 05 11.21257	03 13 40.6	+17 29 49		249
Geocentric position (AU)	+0.00675322	+0.00862906	+0.00275142		
C/1999 J6	1999 05 11.22765	03 13 57.5	+17 33 32		249
Geocentric position (AU)	+0.00675278	+0.00862956	+0.00275157		
C/1999 J6	1999 05 11.24431	03 14 15.5	+17 37 22		249
Geocentric position (AU)	+0.00675230	+0.00863010	+0.00275173		
C/1999 J6	1999 05 11.25423	03 14 26.6	+17 39 14		249
Geocentric position (AU)	+0.00675201	+0.00863043	+0.00275183		
C/1999 J6	1999 05 11.26929	03 14 41.5	+17 42 52		249
Geocentric position (AU)	+0.00675157	+0.00863092	+0.00275198		
C/1999 J6	1999 05 11.28598	03 15 00.3	+17 46 36		249
Geocentric position (AU)	+0.00675109	+0.00863147	+0.00275214		
C/1999 J6	1999 05 11.31166	03 15 27.9	+17 52 27		249
Geocentric position (AU)	+0.00675034	+0.00863231	+0.00275240		
C/1999 J6	1999 05 11.33757	03 15 55.1	+17 58 19		249
Geocentric position (AU)	+0.00674959	+0.00863315	+0.00275265		
C/1999 J6	1999 05 11.35264	03 16 10.2	+18 01 35		249
Geocentric position (AU)	+0.00674915	+0.00863365	+0.00275280		
C/1999 J6	1999 05 11.36931	03 16 27.2	+18 05 40		249
Geocentric position (AU)	+0.00674866	+0.00863419	+0.00275297		
C/1999 J6	1999 05 11.37924	03 16 38.2	+18 07 41		249
Geocentric position (AU)	+0.00674837	+0.00863451	+0.00275307		
C/1999 J6	1999 05 11.39429	03 16 54.4	+18 11 11		249
Geocentric position (AU)	+0.00674793	+0.00863501	+0.00275322		
C/1999 J6	1999 05 11.43596	03 17 35.8	+18 20 31		249
Geocentric position (AU)	+0.00674671	+0.00863636	+0.00275363		
C/1999 J6	1999 05 11.44590	03 17 47.2	+18 22 48		249
Geocentric position (AU)	+0.00674642	+0.00863669	+0.00275373		
C/1999 J6	1999 05 11.45262	03 17 52.2	+18 24 17		249
Geocentric position (AU)	+0.00674622	+0.00863691	+0.00275380		
C/1999 J6	1999 05 11.46257	03 18 02.1	+18 26 27		249
Geocentric position (AU)	+0.00674593	+0.00863723	+0.00275390		

C/1999 J6	1999 05	11.47090	03 18 10.2	+18 28 19	249
Geocentric position (AU)		+0.00674569	+0.00863750	+0.00275398	
C/1999 J6	1999 05	11.51256	03 18 49.2	+18 37 30	249
Geocentric position (AU)		+0.00674446	+0.00863886	+0.00275440	
C/1999 J6	1999 05	11.57091	03 19 43.5	+18 50 18	249
Geocentric position (AU)		+0.00674274	+0.00864075	+0.00275499	
C/1999 J6	1999 05	11.61256	03 20 18.0	+18 59 28	249
Geocentric position (AU)		+0.00674151	+0.00864210	+0.00275541	
C/1999 J6	1999 05	11.63757	03 20 38.3	+19 04 09	249
Geocentric position (AU)		+0.00674077	+0.00864291	+0.00275566	
C/1999 J6	1999 05	11.65423	03 20 53.7	+19 07 51	249
Geocentric position (AU)		+0.00674027	+0.00864345	+0.00275583	
C/1999 J6	1999 05	11.67923	03 21 13.1	+19 12 55	249
Geocentric position (AU)		+0.00673953	+0.00864426	+0.00275608	
C/1999 J6	1999 05	11.69590	03 21 25.3	+19 16 11	249
Geocentric position (AU)		+0.00673904	+0.00864480	+0.00275625	
C/1999 J6	1999 05	11.72090	03 21 45.1	+19 21 08	249
Geocentric position (AU)		+0.00673829	+0.00864561	+0.00275650	
C/1999 J6	1999 05	11.73757	03 21 56.8	+19 24 28	249
Geocentric position (AU)		+0.00673779	+0.00864615	+0.00275667	
C/1999 J6	1999 05	11.76256	03 22 14.2	+19 29 22	249
Geocentric position (AU)		+0.00673705	+0.00864696	+0.00275693	
C/1999 J6	1999 05	11.77923	03 22 25.8	+19 32 23	249
Geocentric position (AU)		+0.00673655	+0.00864750	+0.00275710	
C/1999 J6	1999 05	11.82090	03 22 51.8	+19 39 44	249
Geocentric position (AU)		+0.00673530	+0.00864884	+0.00275752	
C/1999 J6	1999 05	11.84590	03 23 07.2	+19 43 58	249
Geocentric position (AU)		+0.00673456	+0.00864965	+0.00275778	
C/1999 J6	1999 05	11.86257	03 23 15.3	+19 46 59	249
Geocentric position (AU)		+0.00673405	+0.00865018	+0.00275795	
C/1999 J6	1999 05	11.88757	03 23 30.7	+19 51 14	249
Geocentric position (AU)		+0.00673330	+0.00865099	+0.00275821	
C/1999 J6	1999 05	11.90423	03 23 39.1	+19 54 00	249
Geocentric position (AU)		+0.00673280	+0.00865152	+0.00275838	
C/1999 J6	1999 05	11.92925	03 23 51.2	+19 57 59	249
Geocentric position (AU)		+0.00673205	+0.00865233	+0.00275864	
C/1999 J6	1999 05	11.97101	03 24 12.1	+20 04 24	249
Geocentric position (AU)		+0.00673079	+0.00865367	+0.00275907	
C/1999 J6	1999 05	11.98756	03 24 19.7	+20 07 00	249
Geocentric position (AU)		+0.00673029	+0.00865420	+0.00275924	
C/1999 J6	1999 05	12.01256	03 24 30.8	+20 10 31	249
Geocentric position (AU)		+0.00672953	+0.00865500	+0.00275949	
C/1999 J6	1999 05	12.02923	03 24 37.4	+20 13 15	249
Geocentric position (AU)		+0.00672903	+0.00865554	+0.00275967	
C/1999 J6	1999 05	12.07090	03 24 53.9	+20 19 05	249
Geocentric position (AU)		+0.00672776	+0.00865687	+0.00276010	
C/1999 J6	1999 05	12.09590	03 25 03.3	+20 22 12	249
Geocentric position (AU)		+0.00672700	+0.00865767	+0.00276036	
C/1999 J6	1999 05	12.11257	03 25 09.0	+20 24 36	249
Geocentric position (AU)		+0.00672649	+0.00865820	+0.00276053	
C/1999 J6	1999 05	12.13757	03 25 17.0	+20 27 48	249
Geocentric position (AU)		+0.00672573	+0.00865900	+0.00276079	

C/1999 J6	1999 05	12.15423	03 25 22.3	+20 29 41	249
Geocentric position (AU)		+0.00672522	+0.00865953	+0.00276097	
C/1999 J6	1999 05	12.17924	03 25 30.4	+20 32 49	249
Geocentric position (AU)		+0.00672446	+0.00866033	+0.00276123	
C/1999 J6	1999 05	12.19590	03 25 34.3	+20 34 38	249
Geocentric position (AU)		+0.00672395	+0.00866086	+0.00276140	
C/1999 J6	1999 05	12.22090	03 25 42.1	+20 37 43	249
Geocentric position (AU)		+0.00672318	+0.00866166	+0.00276166	
C/1999 J6	1999 05	12.23756	03 25 46.3	+20 39 42	249
Geocentric position (AU)		+0.00672267	+0.00866219	+0.00276184	
C/1999 J6	1999 05	12.26256	03 25 51.7	+20 42 10	249
Geocentric position (AU)		+0.00672191	+0.00866298	+0.00276210	
C/1999 J6	1999 05	12.27923	03 25 55.8	+20 43 57	249
Geocentric position (AU)		+0.00672139	+0.00866351	+0.00276227	
C/1999 J6	1999 05	12.32090	03 26 03.3	+20 48 20	249
Geocentric position (AU)		+0.00672011	+0.00866483	+0.00276271	
C/1999 J6	1999 05	12.34590	03 26 08.5	+20 50 59	249
Geocentric position (AU)		+0.00671934	+0.00866562	+0.00276297	
C/1999 J6	1999 05	12.36256	03 26 10.7	+20 52 38	249
Geocentric position (AU)		+0.00671883	+0.00866615	+0.00276315	
C/1999 J6	1999 05	12.38756	03 26 17.7	+20 54 45	249
Geocentric position (AU)		+0.00671805	+0.00866694	+0.00276341	

C/1999 L3 (LINEAR)

C/1999 L3	2000 03	01.51272	06 21 53.34	+30 01 30.6	13.9 T	900
C/1999 L3	2000 03	01.52191	06 21 51.33	+30 01 32.8		900
C/1999 L3	2000 03	02.47626	06 18 35.70	+30 05 01.3	14.4 T	351
C/1999 L3	2000 03	02.48322	06 18 34.27	+30 05 00.4		351
C/1999 L3	2000 03	02.50229	06 18 30.48	+30 05 05.3		351
C/1999 L3	2000 03	05.46563	06 09 16.34	+30 13 17.3		900
C/1999 L3	2000 03	05.48125	06 09 13.55	+30 13 19.5	14.2 T	900
C/1999 L3	2000 03	12.43866	05 52 06.48	+30 22 08.8		349
C/1999 L3	2000 03	12.44148	05 52 06.20	+30 22 10.0		349
C/1999 L3	2000 03	12.45749	05 52 04.08	+30 22 09.0	15.0 T	349
C/1999 L3	2000 03	21.88337	05 36 41.90	+30 23 45.5		504
C/1999 L3	2000 03	21.88728	05 36 41.57	+30 23 43.8		504
C/1999 L3	2000 03	21.88932	05 36 41.45	+30 23 43.6		504
C/1999 L3	2000 03	21.90596	05 36 40.11	+30 23 43.8		504
C/1999 L3	2000 03	21.90935	05 36 39.85	+30 23 44.9		504
C/1999 L3	2000 03	21.91340	05 36 39.54	+30 23 43.8		504
C/1999 L3	2000 03	27.45327	05 30 40.90	+30 23 19.1		900
C/1999 L3	2000 03	27.46894	05 30 40.08	+30 23 20.0		900
C/1999 L3	2000 03	28.82254	05 29 28.61	+30 23 10.9	15.6 T	049
C/1999 L3	2000 03	28.82640	05 29 28.34	+30 23 10.9	16.1 T	049
C/1999 L3	2000 03	28.83016	05 29 28.19	+30 23 10.7	16.1 T	049
C/1999 L3	2000 03	29.84156	05 28 38.49	+30 23 09.1	15.8 N	3 170
C/1999 L3	2000 03	30.49201	05 28 08.08	+30 23 07.8	16.1 T	360
C/1999 L3	2000 03	30.49444	05 28 07.97	+30 23 07.5		360

C/1999 N4 (LINEAR)

C/1999 N4	2000 04	05.30972	18 07 50.70	+00 59 08.1	16.6 T	860
C/1999 N4	2000 04	05.33215	18 07 49.74	+00 59 14.1	16.3 T	860
C/1999 N4	2000 04	15.03689	18 01 04.50	+01 50 15.4		118
C/1999 N4	2000 04	15.04105	18 01 04.30	+01 50 16.7	16.4 T	118

C/1999 S4 (LINEAR)

C/1999 S4	1999 12 20.46215	02 36 45.96	+34 12 42.9	14.4 T	372
C/1999 S4	1999 12 27.55035	02 22 40.17	+33 05 08.8	15.2 T	372
C/1999 S4	2000 02 29.42917	01 31 34.21	+25 56 29.1	15.1 T	372
C/1999 S4	2000 03 01.80086	01 31 34.94	+25 54 05.3		952
C/1999 S4	2000 03 01.80240	01 31 34.86	+25 54 04.8		952
C/1999 S4	2000 03 01.80505	01 31 34.96	+25 54 05.2		952
C/1999 S4	2000 03 01.80755	01 31 34.97	+25 54 04.9		952
C/1999 S4	2000 03 12.42225	01 32 34.03	+25 44 33.7		349
C/1999 S4	2000 03 12.42663	01 32 34.10	+25 44 34.2		349
C/1999 S4	2000 03 12.42771	01 32 34.13	+25 44 34.7	14.9 T	349
C/1999 S4	2000 03 24.43229	01 35 15.80	+25 51 48.8	14.6 T	372
C/1999 S4	2000 03 24.43646	01 35 15.85	+25 51 49.3	14.6 T	372
C/1999 S4	2000 03 25.41282	01 35 32.60	+25 53 09.5		349
C/1999 S4	2000 03 25.41457	01 35 32.60	+25 53 10.2		349
C/1999 S4	2000 03 25.42689	01 35 32.79	+25 53 11.0	14.3 T	349

C/1999 T2 (LINEAR)

C/1999 T2	2000 03 19.81574	22 35 30.33	+30 43 09.0		349
C/1999 T2	2000 03 19.81686	22 35 30.30	+30 43 09.7	15.7 T	349
C/1999 T2	2000 03 24.81855	22 37 17.84	+31 36 17.4		349
C/1999 T2	2000 03 24.82287	22 37 18.04	+31 36 20.5		349
C/1999 T2	2000 03 24.82414	22 37 18.11	+31 36 21.0	15.6 T	349

C/1999 U5 (SOHO)

C/1999 U5	1999 10 31.49451	14 06 46.1	-17 26 31		249
Geocentric position (AU)	-0.00765050	-0.00697896	-0.00394887		
C/1999 U5	1999 10 31.51535	14 07 09.1	-17 24 35		249
Geocentric position (AU)	-0.00764992	-0.00697963	-0.00394936		
C/1999 U5	1999 10 31.53618	14 07 32.6	-17 22 23		249
Geocentric position (AU)	-0.00764933	-0.00698031	-0.00394985		
C/1999 U5	1999 10 31.55702	14 07 59.5	-17 19 30		249
Geocentric position (AU)	-0.00764875	-0.00698099	-0.00395034		
C/1999 U5	1999 10 31.57784	14 08 29.1	-17 16 43		249
Geocentric position (AU)	-0.00764816	-0.00698167	-0.00395083		
C/1999 U5	1999 10 31.59867	14 08 51.7	-17 14 10		249
Geocentric position (AU)	-0.00764758	-0.00698234	-0.00395132		
C/1999 U5	1999 10 31.61952	14 09 18.5	-17 11 32		249
Geocentric position (AU)	-0.00764699	-0.00698302	-0.00395181		
C/1999 U5	1999 10 31.64034	14 09 44.6	-17 08 57		249
Geocentric position (AU)	-0.00764641	-0.00698370	-0.00395230		
C/1999 U5	1999 10 31.68201	14 10 33.4	-17 03 37		249
Geocentric position (AU)	-0.00764524	-0.00698505	-0.00395328		
C/1999 U5	1999 10 31.70284	14 11 02.5	-17 00 32		249
Geocentric position (AU)	-0.00764465	-0.00698573	-0.00395377		
C/1999 U5	1999 10 31.72367	14 11 26.4	-16 57 41		249
Geocentric position (AU)	-0.00764406	-0.00698641	-0.00395426		
C/1999 U5	1999 10 31.74451	14 11 55.6	-16 54 53		249
Geocentric position (AU)	-0.00764348	-0.00698709	-0.00395474		
C/1999 U5	1999 10 31.76534	14 12 21.2	-16 52 02		249
Geocentric position (AU)	-0.00764289	-0.00698776	-0.00395523		
C/1999 U5	1999 10 31.78617	14 12 47.1	-16 49 08		249
Geocentric position (AU)	-0.00764230	-0.00698844	-0.00395572		

C/1999 U5	1999 10 31.80701	14 13 14.9	-16 45 37		249
Geocentric position (AU)	-0.00764171	-0.00698912	-0.00395620		
C/1999 U5	1999 10 31.82785	14 13 41.7	-16 42 45		249
Geocentric position (AU)	-0.00764113	-0.00698980	-0.00395669		
C/1999 U5	1999 10 31.84867	14 14 08.8	-16 39 51		249
Geocentric position (AU)	-0.00764054	-0.00699048	-0.00395718		
C/1999 U5	1999 10 31.86951	14 14 36.9	-16 36 37		249
Geocentric position (AU)	-0.00763995	-0.00699115	-0.00395766		
C/1999 U5	1999 10 31.89034	14 15 02.1	-16 32 56		249
Geocentric position (AU)	-0.00763936	-0.00699183	-0.00395815		
C/1999 U5	1999 10 31.91117	14 15 31.0	-16 29 49		249
Geocentric position (AU)	-0.00763877	-0.00699251	-0.00395863		
C/1999 U5	1999 10 31.93202	14 15 56.1	-16 26 16		249
Geocentric position (AU)	-0.00763818	-0.00699319	-0.00395911		
C/1999 U5	1999 10 31.97376	14 16 55.1	-16 19 04		249
Geocentric position (AU)	-0.00763700	-0.00699455	-0.00396008		
C/1999 U5	1999 10 31.99453	14 17 22.8	-16 15 23		249
Geocentric position (AU)	-0.00763641	-0.00699523	-0.00396057		
C/1999 U5	1999 11 01.01534	14 17 52.5	-16 11 32		249
Geocentric position (AU)	-0.00763582	-0.00699590	-0.00396105		
C/1999 U5	1999 11 01.03617	14 18 22.7	-16 07 27		249
Geocentric position (AU)	-0.00763523	-0.00699658	-0.00396153		

P/1999 V1 (Catalina)

P/1999 V1	2000 03 25.53594	09 22 29.71	+00 44 07.7	17.6 T	360
P/1999 V1	2000 03 25.54080	09 22 29.71	+00 44 07.4		360

C/1999 W1 (SOHO)

C/1999 W1	1999 11 23.18756	15 55 04.1	-22 05 36		249
Geocentric position (AU)	-0.00684383	-0.00753247	-0.00418135		
C/1999 W1	1999 11 23.20423	15 55 16.7	-22 02 04		249
Geocentric position (AU)	-0.00684322	-0.00753288	-0.00418133		
C/1999 W1	1999 11 23.21256	15 55 22.4	-21 59 04		249
Geocentric position (AU)	-0.00684292	-0.00753308	-0.00418132		
C/1999 W1	1999 11 23.22925	15 55 34.9	-21 56 37		249
Geocentric position (AU)	-0.00684231	-0.00753348	-0.00418131		
C/1999 W1	1999 11 23.24591	15 55 45.5	-21 52 16		249
Geocentric position (AU)	-0.00684170	-0.00753388	-0.00418129		

P/1999 WJ₇ (Korlević)

P/1999 WJ ₇	2000 03 30.45903	05 03 10.07	+23 35 37.7	17.2 T	360
P/1999 WJ ₇	2000 03 30.46319	05 03 10.39	+23 35 37.8		360

P/1999 XB₆₉ (LINEAR)

P/1999 XB ₆₉	2000 03 30.51181	06 56 03.68	+09 21 13.8	18.3 T	360
P/1999 XB ₆₉	2000 03 30.51563	06 56 04.25	+09 21 12.9		360

C/1999 XS₈₇ (LINEAR)

C/1999 XS ₈₇	1999 10 13.41546	06 34 38.30	+25 57 13.7	18.9 T	704
C/1999 XS ₈₇	1999 10 13.43308	06 34 39.13	+25 57 09.2	18.9 T	704
C/1999 XS ₈₇	1999 10 13.44911	06 34 39.82	+25 57 03.9	18.5 T	704
C/1999 XS ₈₇	1999 10 13.46504	06 34 40.56	+25 56 59.6	18.2 T	704
C/1999 XS ₈₇	1999 10 13.48265	06 34 41.34	+25 56 54.2	18.2 T	704

P/1999 XN₁₂₀ (Catalina)

P/1999 XN ₁₂₀	1999 11 19.18235	03 39 59.73	+24 57 13.4	18.2 T	699
P/1999 XN ₁₂₀	1999 11 19.21289	03 39 58.47	+24 57 06.4		699
P/1999 XN ₁₂₀	1999 11 19.24345	03 39 56.91	+24 57 01.6		699
P/1999 XN ₁₂₀	2000 03 30.44896	04 18 28.83	+23 13 18.9	17.8 T	360
P/1999 XN ₁₂₀	2000 03 30.45278	04 18 29.11	+23 13 19.3		360

C/1999 Y1 (LINEAR)

C/1999 Y1	2000 01 10.57188	02 47 13.10	+68 49 52.3	16.8 T	372
C/1999 Y1	2000 01 13.67222	02 41 50.22	+68 02 13.7		372
C/1999 Y1	2000 03 01.47537	02 19 57.67	+56 48 31.6	15.8 T	900
C/1999 Y1	2000 03 01.48817	02 19 57.86	+56 48 23.1		900
C/1999 Y1	2000 03 12.46616	02 23 38.09	+54 56 14.3		349
C/1999 Y1	2000 03 12.47068	02 23 38.16	+54 56 12.9	16.1 T	349
C/1999 Y1	2000 03 12.47396	02 23 38.18	+54 56 09.7		349
C/1999 Y1	2000 03 24.44549	02 29 15.70	+53 14 40.2	16.5 T	372
C/1999 Y1	2000 03 24.46910	02 29 16.39	+53 14 29.3	16.5 T	372
C/1999 Y1	2000 03 25.44656	02 29 47.47	+53 07 05.8	16.1 T	349
C/1999 Y1	2000 03 25.45030	02 29 47.61	+53 07 05.5		349
C/1999 Y1	2000 03 25.45287	02 29 47.65	+53 07 04.4		349
C/1999 Y1	2000 03 30.43993	02 32 32.35	+52 31 27.0	16.0 T	360
C/1999 Y1	2000 03 30.44236	02 32 32.41	+52 31 26.2		360

C/1999 Y3 (SOHO)

C/1999 Y3	1999 12 21.49590	18 04 00.1	-25 02 32		249
Geocentric position (AU)	-0.00444271	-0.00850797	-0.00398476		
C/1999 Y3	1999 12 21.50425	18 04 00.1	-25 00 42		249
Geocentric position (AU)	-0.00444159	-0.00850822	-0.00398461		
C/1999 Y3	1999 12 21.52091	18 03 58.9	-24 56 47		249
Geocentric position (AU)	-0.00443934	-0.00850873	-0.00398433		
C/1999 Y3	1999 12 21.53757	18 03 59.7	-24 52 49		249
Geocentric position (AU)	-0.00443709	-0.00850923	-0.00398404		
C/1999 Y3	1999 12 21.56348	18 03 58.4	-24 46 50		249
Geocentric position (AU)	-0.00443360	-0.00851002	-0.00398359		
C/1999 Y3	1999 12 21.57925	18 03 56.9	-24 43 04		249
Geocentric position (AU)	-0.00443147	-0.00851050	-0.00398332		
C/1999 Y3	1999 12 21.58756	18 03 56.4	-24 41 01		249
Geocentric position (AU)	-0.00443034	-0.00851075	-0.00398317		
C/1999 Y3	1999 12 21.60423	18 03 54.6	-24 37 01		249
Geocentric position (AU)	-0.00442809	-0.00851125	-0.00398288		
C/1999 Y3	1999 12 21.62090	18 03 52.8	-24 32 52		249
Geocentric position (AU)	-0.00442583	-0.00851176	-0.00398260		
C/1999 Y3	1999 12 21.62925	18 03 51.3	-24 30 46		249
Geocentric position (AU)	-0.00442470	-0.00851201	-0.00398245		
C/1999 Y3	1999 12 21.64590	18 03 48.8	-24 26 32		249
Geocentric position (AU)	-0.00442245	-0.00851252	-0.00398216		
C/1999 Y3	1999 12 21.66256	18 03 45.8	-24 22 14		249
Geocentric position (AU)	-0.00442019	-0.00851302	-0.00398187		
C/1999 Y3	1999 12 21.67090	18 03 43.8	-24 20 04		249
Geocentric position (AU)	-0.00441906	-0.00851328	-0.00398173		
C/1999 Y3	1999 12 21.68756	18 03 39.5	-24 15 27		249
Geocentric position (AU)	-0.00441680	-0.00851378	-0.00398144		

C/2000 A1 (Montani)

C/2000 A1	2000 03 29.14868	07 49 53.00	+25 08 08.2	20.5 T	691
C/2000 A1	2000 03 29.18017	07 49 53.14	+25 08 09.1	20.5 T	691
C/2000 A1	2000 03 29.21012	07 49 53.24	+25 08 09.9	20.2 T	691

C/2000 B2 (LINEAR)

C/2000 B2	2000 03 30.52222	06 02 39.11	+22 54 22.0	18.8 T	360
C/2000 B2	2000 03 30.52674	06 02 39.21	+22 54 19.6		360
C/2000 B2	2000 03 30.53160	06 02 39.17	+22 54 15.4		360

P/2000 B3 (LINEAR)

P/2000 B3	2000 03 12.50315	07 16 18.58	+32 31 47.7		349
P/2000 B3	2000 03 12.50442	07 16 18.73	+32 31 47.3		349
P/2000 B3	2000 03 12.50566	07 16 18.90	+32 31 46.4	17.1 T	349
P/2000 B3	2000 03 30.55000	07 49 59.71	+27 48 24.0	15.7 T	360
P/2000 B3	2000 03 30.55417	07 50 00.20	+27 48 20.2		360
P/2000 B3	2000 04 02.13072	07 55 05.52	+27 08 05.0	17.3 T	704
P/2000 B3	2000 04 02.14508	07 55 07.21	+27 07 48.4	17.3 T	704
P/2000 B3	2000 04 02.15945	07 55 09.03	+27 07 34.7	17.7 T	704
P/2000 B3	2000 04 02.17381	07 55 10.61	+27 07 21.1	17.2 T	704
P/2000 B3	2000 04 02.18816	07 55 12.22	+27 07 08.0	17.3 T	704
P/2000 B3	2000 04 06.47881	08 03 45.64	+26 00 06.5	14.6 T	900
P/2000 B3	2000 04 06.49152	08 03 47.22	+25 59 54.0		900
P/2000 B3	2000 04 16.45070	08 23 56.74	+23 24 46.2	15.6 T	900
P/2000 B3	2000 04 16.46633	08 23 58.40	+23 24 32.7		900

C/2000 B5 (SOHO)

C/2000 B5	2000 01 17.86258	20 17 20.6	-23 30 01		249
Geocentric position (AU)	+0.00117476	-0.00826767	-0.00306381		
C/2000 B5	2000 01 17.92924	20 16 49.4	-23 19 52		249
Geocentric position (AU)	+0.00119129	-0.00826250	-0.00305991		
C/2000 B5	2000 01 17.97098	20 16 30.3	-23 13 10		249
Geocentric position (AU)	+0.00120165	-0.00825926	-0.00305746		
C/2000 B5	2000 01 17.98789	20 16 21.7	-23 10 36		249
Geocentric position (AU)	+0.00120585	-0.00825794	-0.00305647		
C/2000 B5	2000 01 18.01256	20 16 09.2	-23 06 31		249
Geocentric position (AU)	+0.00121197	-0.00825601	-0.00305502		
C/2000 B5	2000 01 18.02923	20 16 02.5	-23 04 02		249
Geocentric position (AU)	+0.00121610	-0.00825471	-0.00305404		
C/2000 B5	2000 01 18.07092	20 15 40.7	-22 56 54		249
Geocentric position (AU)	+0.00122645	-0.00825145	-0.00305159		
C/2000 B5	2000 01 18.09590	20 15 27.9	-22 52 43		249
Geocentric position (AU)	+0.00123265	-0.00824949	-0.00305012		
C/2000 B5	2000 01 18.11258	20 15 19.2	-22 49 53		249
Geocentric position (AU)	+0.00123679	-0.00824818	-0.00304914		
C/2000 B5	2000 01 18.13787	20 15 06.4	-22 46 00		249
Geocentric position (AU)	+0.00124307	-0.00824619	-0.00304765		
C/2000 B5	2000 01 18.18358	20 14 41.0	-22 38 33		249
Geocentric position (AU)	+0.00125442	-0.00824259	-0.00304496		
C/2000 B5	2000 01 18.19872	20 14 32.4	-22 35 52		249
Geocentric position (AU)	+0.00125818	-0.00824139	-0.00304406		
C/2000 B5	2000 01 18.23757	20 14 09.8	-22 29 35		249
Geocentric position (AU)	+0.00126783	-0.00823832	-0.00304177		

C/2000 B5	2000 01	18.26257	20 13 54.9	-22 25 09	249
Geocentric position (AU)		+0.00127404	-0.00823634	-0.00304029	
C/2000 B5	2000 01	18.27923	20 13 43.9	-22 22 36	249
Geocentric position (AU)		+0.00127818	-0.00823501	-0.00303931	
C/2000 B5	2000 01	18.32090	20 13 18.6	-22 14 57	249
Geocentric position (AU)		+0.00128853	-0.00823170	-0.00303684	
C/2000 B5	2000 01	18.34591	20 13 02.0	-22 10 32	249
Geocentric position (AU)		+0.00129475	-0.00822971	-0.00303536	
C/2000 B5	2000 01	18.36256	20 12 51.9	-22 07 55	249
Geocentric position (AU)		+0.00129889	-0.00822838	-0.00303437	
C/2000 B5	2000 01	18.38757	20 12 33.1	-22 03 14	249
Geocentric position (AU)		+0.00130510	-0.00822638	-0.00303289	
C/2000 B5	2000 01	18.40423	20 12 22.3	-22 00 17	249
Geocentric position (AU)		+0.00130925	-0.00822505	-0.00303190	
C/2000 B5	2000 01	18.42923	20 12 05.9	-21 55 37	249
Geocentric position (AU)		+0.00131546	-0.00822304	-0.00303042	
C/2000 B5	2000 01	18.44592	20 11 52.6	-21 52 24	249
Geocentric position (AU)		+0.00131961	-0.00822171	-0.00302943	
C/2000 B5	2000 01	18.47090	20 11 32.6	-21 47 47	249
Geocentric position (AU)		+0.00132582	-0.00821970	-0.00302795	
C/2000 B5	2000 01	18.48756	20 11 20.1	-21 44 45	249
Geocentric position (AU)		+0.00132997	-0.00821836	-0.00302696	
C/2000 B5	2000 01	18.51257	20 10 59.9	-21 40 19	249
Geocentric position (AU)		+0.00133619	-0.00821635	-0.00302547	
C/2000 B5	2000 01	18.52923	20 10 46.3	-21 36 34	249
Geocentric position (AU)		+0.00134033	-0.00821500	-0.00302448	
C/2000 B5	2000 01	18.57090	20 10 09.9	-21 28 33	249
Geocentric position (AU)		+0.00135070	-0.00821164	-0.00302200	
C/2000 B5	2000 01	18.59590	20 09 46.8	-21 23 38	249
Geocentric position (AU)		+0.00135692	-0.00820961	-0.00302051	
C/2000 B5	2000 01	18.61256	20 09 32.1	-21 20 16	249
Geocentric position (AU)		+0.00136107	-0.00820826	-0.00301952	

C/2000 B6 (SOHO)

C/2000 B6	2000 01	29.44590	21 05 06.6	-19 55 17	249
Geocentric position (AU)		+0.00412611	-0.00696845	-0.00227984	
C/2000 B6	2000 01	29.47090	21 04 46.8	-19 51 35	249
Geocentric position (AU)		+0.00413252	-0.00696459	-0.00227788	
C/2000 B6	2000 01	29.48756	21 04 34.3	-19 48 56	249
Geocentric position (AU)		+0.00413678	-0.00696201	-0.00227658	
C/2000 B6	2000 01	29.52923	21 04 02.2	-19 42 51	249
Geocentric position (AU)		+0.00414745	-0.00695556	-0.00227330	
C/2000 B6	2000 01	29.57090	21 03 28.3	-19 36 23	249
Geocentric position (AU)		+0.00415812	-0.00694909	-0.00227003	
C/2000 B6	2000 01	29.59590	21 03 07.9	-19 32 42	249
Geocentric position (AU)		+0.00416451	-0.00694520	-0.00226806	
C/2000 B6	2000 01	29.61256	21 02 54.1	-19 30 01	249
Geocentric position (AU)		+0.00416878	-0.00694260	-0.00226675	
C/2000 B6	2000 01	29.65423	21 02 18.1	-19 23 23	249
Geocentric position (AU)		+0.00417944	-0.00693610	-0.00226347	
C/2000 B6	2000 01	29.67923	21 01 56.0	-19 19 26	249
Geocentric position (AU)		+0.00418583	-0.00693219	-0.00226149	

C/2000 B6	2000 01	29.69590	21 01 41.1	-19 16 52	249
Geocentric position (AU)		+0.00419009	-0.00692959	-0.00226018	
C/2000 B6	2000 01	29.72090	21 01 17.6	-19 12 41	249
Geocentric position (AU)		+0.00419648	-0.00692567	-0.00225821	
C/2000 B6	2000 01	29.73756	21 01 01.6	-19 10 02	249
Geocentric position (AU)		+0.00420074	-0.00692306	-0.00225689	
C/2000 B6	2000 01	29.76256	21 00 37.4	-19 06 02	249
Geocentric position (AU)		+0.00420713	-0.00691914	-0.00225491	
C/2000 B6	2000 01	29.77924	21 00 20.7	-19 03 17	249
Geocentric position (AU)		+0.00421139	-0.00691652	-0.00225359	
C/2000 B6	2000 01	29.82094	20 59 40.7	-18 56 12	249
Geocentric position (AU)		+0.00422205	-0.00690995	-0.00225029	
C/2000 B6	2000 01	29.84590	20 59 13.0	-18 51 56	249
Geocentric position (AU)		+0.00422842	-0.00690602	-0.00224832	
C/2000 B6	2000 01	29.86256	20 58 55.7	-18 49 02	249
Geocentric position (AU)		+0.00423268	-0.00690339	-0.00224700	
C/2000 B6	2000 01	29.88784	20 58 27.9	-18 44 24	249
Geocentric position (AU)		+0.00423913	-0.00689940	-0.00224499	
C/2000 B6	2000 01	29.90423	20 58 07.9	-18 41 41	249
Geocentric position (AU)		+0.00424332	-0.00689681	-0.00224369	
C/2000 B6	2000 01	29.92924	20 57 38.6	-18 37 08	249
Geocentric position (AU)		+0.00424970	-0.00689284	-0.00224171	
C/2000 B6	2000 01	29.97098	20 56 45.2	-18 28 58	249
Geocentric position (AU)		+0.00426035	-0.00688622	-0.00223839	

C/2000 B7 (SOHO)

C/2000 B7	2000 01	31.84590	21 12 26.5	-18 52 21	249
Geocentric position (AU)		+0.00473418	-0.00657396	-0.00208569	
C/2000 B7	2000 01	31.86256	21 12 11.1	-18 49 47	249
Geocentric position (AU)		+0.00473834	-0.00657106	-0.00208430	
C/2000 B7	2000 01	31.88757	21 11 50.3	-18 46 13	249
Geocentric position (AU)		+0.00474459	-0.00656669	-0.00208222	
C/2000 B7	2000 01	31.90423	21 11 37.9	-18 43 56	249
Geocentric position (AU)		+0.00474875	-0.00656378	-0.00208083	
C/2000 B7	2000 01	31.92923	21 11 17.5	-18 40 24	249
Geocentric position (AU)		+0.00475499	-0.00655941	-0.00207874	
C/2000 B7	2000 01	31.97099	21 10 41.9	-18 34 14	249
Geocentric position (AU)		+0.00476541	-0.00655210	-0.00207525	
C/2000 B7	2000 01	31.98756	21 10 26.4	-18 31 33	249
Geocentric position (AU)		+0.00476955	-0.00654919	-0.00207386	
C/2000 B7	2000 02	01.01256	21 10 05.5	-18 27 47	249
Geocentric position (AU)		+0.00477578	-0.00654480	-0.00207177	
C/2000 B7	2000 02	01.02923	21 09 51.0	-18 25 41	249
Geocentric position (AU)		+0.00477993	-0.00654187	-0.00207037	
C/2000 B7	2000 02	01.07090	21 09 10.9	-18 18 46	249
Geocentric position (AU)		+0.00479032	-0.00653454	-0.00206688	
C/2000 B7	2000 02	01.09590	21 08 48.6	-18 15 01	249
Geocentric position (AU)		+0.00479654	-0.00653014	-0.00206479	
C/2000 B7	2000 02	01.11256	21 08 27.4	-18 12 46	249
Geocentric position (AU)		+0.00480069	-0.00652720	-0.00206339	
C/2000 B7	2000 02	01.13756	21 08 03.6	-18 08 30	249
Geocentric position (AU)		+0.00480692	-0.00652278	-0.00206129	

2000 APR. 18

M.P.C. 39711

C/2000 B7 2000 02 01.15423 21 07 48.1 -18 05 46 249
 Geocentric position (AU) +0.00481106 -0.00651984 -0.00205989

P/2000 C1 (Hergenrother)

P/2000 C1	2000 03 01.69400	12 10 44.22	+07 23 26.1	16.0 T	900
P/2000 C1	2000 03 01.70663	12 10 43.91	+07 23 31.4		900
P/2000 C1	2000 03 08.70607	12 07 57.55	+08 15 56.9		349
P/2000 C1	2000 03 08.71597	12 07 57.26	+08 16 00.3		349
P/2000 C1	2000 03 08.71722	12 07 57.25	+08 16 02.0	16.2 T	349
P/2000 C1	2000 03 14.68312	12 05 01.83	+09 00 00.5	15.7 T	900
P/2000 C1	2000 03 14.69577	12 05 01.34	+09 00 05.7		900
P/2000 C1	2000 03 17.56889	12 03 30.82	+09 20 16.2	15.8 T	903
P/2000 C1	2000 03 17.58674	12 03 30.15	+09 20 23.4		903
P/2000 C1	2000 03 17.63476	12 03 28.58	+09 20 44.2	15.6 T	900
P/2000 C1	2000 03 17.64756	12 03 28.11	+09 20 49.5		900
P/2000 C1	2000 03 25.56844	11 59 13.62	+10 10 34.1		355
P/2000 C1	2000 03 25.57461	11 59 13.43	+10 10 36.3	16.3 T	355
P/2000 C1	2000 03 25.57657	11 59 13.38	+10 10 37.0		355
P/2000 C1	2000 03 28.20031	11 57 52.23	+10 24 38.0	18.3 T	704
P/2000 C1	2000 03 28.21569	11 57 51.60	+10 24 44.4	18.1 T	704
P/2000 C1	2000 03 28.24002	11 57 50.91	+10 24 50.7	18.9 T	704
P/2000 C1	2000 03 28.25644	11 57 50.30	+10 24 56.3	18.4 T	704
P/2000 C1	2000 03 29.24371	11 57 20.75	+10 29 50.2	17.7 T	704
P/2000 C1	2000 03 29.25822	11 57 20.18	+10 29 55.3	17.9 T	704
P/2000 C1	2000 03 29.27286	11 57 19.75	+10 29 58.8	18.5 T	704
P/2000 C1	2000 03 29.28747	11 57 19.20	+10 30 04.5	18.2 T	704
P/2000 C1	2000 03 30.58038	11 56 41.45	+10 36 08.3		903
P/2000 C1	2000 03 30.58480	11 56 41.29	+10 36 08.4		903
P/2000 C1	2000 03 30.59846	11 56 40.85	+10 36 11.7	15.8 T	903
P/2000 C1	2000 03 30.66597	11 56 38.75	+10 36 31.5	16.2 T	360
P/2000 C1	2000 03 30.66944	11 56 38.64	+10 36 32.4		360
P/2000 C1	2000 03 31.93372	11 56 02.97	+10 42 04.2	17.0 T	170
P/2000 C1	2000 04 01.51493	11 55 47.06	+10 44 31.2	16.0 T	367
P/2000 C1	2000 04 01.51840	11 55 46.94	+10 44 32.2		367
P/2000 C1	2000 04 01.52211	11 55 46.82	+10 44 33.3		367
P/2000 C1	2000 04 01.61742	11 55 44.00	+10 44 55.4	16.0 T	903
P/2000 C1	2000 04 01.65279	11 55 42.90	+10 45 04.0		903
P/2000 C1	2000 04 02.19210	11 55 28.69	+10 47 15.7	18.0 T	704
P/2000 C1	2000 04 02.20650	11 55 28.32	+10 47 20.0	17.7 T	704
P/2000 C1	2000 04 02.22091	11 55 27.84	+10 47 22.9	18.1 T	704
P/2000 C1	2000 04 03.29681	11 54 59.37	+10 51 27.0	18.3 T	704
P/2000 C1	2000 04 03.31119	11 54 58.93	+10 51 33.1	18.9 T	704
P/2000 C1	2000 04 03.32557	11 54 58.48	+10 51 36.4	19.2 T	704
P/2000 C1	2000 04 03.33998	11 54 58.05	+10 51 38.4	18.1 T	704
P/2000 C1	2000 04 03.35438	11 54 57.58	+10 51 42.2	18.9 T	704
P/2000 C1	2000 04 05.89479	11 53 55.54	+11 00 08.9	17.7 N	1 170
P/2000 C1	2000 04 06.95963	11 53 31.41	+11 03 14.9	16.9 T	4 170
P/2000 C1	2000 04 07.58282	11 53 17.75	+11 04 53.2	15.9 T	903
P/2000 C1	2000 04 07.58595	11 53 17.62	+11 04 56.2		903
P/2000 C1	2000 04 07.59990	11 53 17.54	+11 04 58.8		903
P/2000 C1	2000 04 08.13306	11 53 06.74	+11 06 18.6	17.7 T	704
P/2000 C1	2000 04 08.14685	11 53 06.37	+11 06 21.7	19.2 T	704
P/2000 C1	2000 04 08.16091	11 53 05.99	+11 06 24.1	18.7 T	704

P/2000 C1 2000 04 08.17484 11 53 05.74 +11 06 26.2 19.0 T 704
 P/2000 C1 2000 04 08.18865 11 53 05.22 +11 06 27.6 18.1 T 704

C/2000 CT₅₄ (LINEAR)

C/2000 CT ₅₄	2000 03 30.44036	13 44 54.94	-26 01 54.7	17.3 T	704
C/2000 CT ₅₄	2000 03 30.47007	13 44 53.70	-26 01 59.1	18.0 T	704
C/2000 CT ₅₄	2000 03 30.48458	13 44 53.06	-26 02 02.1	18.1 T	704
C/2000 CT ₅₄	2000 03 30.69861	13 44 44.01	-26 02 46.1	16.7 T	360
C/2000 CT ₅₄	2000 03 30.70313	13 44 43.80	-26 02 47.1		360
C/2000 CT ₅₄	2000 04 08.66086	13 38 00.53	-26 29 07.2	17.1 T	402
C/2000 CT ₅₄	2000 04 08.66321	13 38 00.44	-26 29 07.3		402
C/2000 CT ₅₄	2000 04 08.66439	13 38 00.33	-26 29 08.3		402
C/2000 CT ₅₄	2000 04 11.64394	13 35 38.44	-26 36 27.0	17.2 T	402
C/2000 CT ₅₄	2000 04 11.64624	13 35 38.31	-26 36 27.2		402
C/2000 CT ₅₄	2000 04 11.64854	13 35 38.25	-26 36 28.3		402

C/2000 D3 (SOHO)

C/2000 D3	2000 02 25.98757	22 50 10.8	-10 29 52		249
Geocentric position (AU)	+0.00892350	-0.00079119	+0.00018689		
C/2000 D3	2000 02 26.01257	22 49 46.0	-10 27 11		249
Geocentric position (AU)	+0.00892559	-0.00078513	+0.00018890		
C/2000 D3	2000 02 26.02924	22 49 30.6	-10 24 23		249
Geocentric position (AU)	+0.00892699	-0.00078109	+0.00019025		
C/2000 D3	2000 02 26.09590	22 48 24.7	-10 17 26		249
Geocentric position (AU)	+0.00893255	-0.00076492	+0.00019563		
C/2000 D3	2000 02 26.11259	22 48 07.4	-10 15 15		249
Geocentric position (AU)	+0.00893394	-0.00076087	+0.00019697		
C/2000 D3	2000 02 26.18041	22 46 56.7	-10 06 44		249
Geocentric position (AU)	+0.00893957	-0.00074442	+0.00020243		
C/2000 D3	2000 02 26.22101	22 46 11.3	-10 01 15		249
Geocentric position (AU)	+0.00894293	-0.00073458	+0.00020570		
C/2000 D3	2000 02 26.23756	22 45 52.1	-09 59 45		249
Geocentric position (AU)	+0.00894430	-0.00073056	+0.00020703		
C/2000 D3	2000 02 26.26257	22 45 24.2	-09 55 18		249
Geocentric position (AU)	+0.00894636	-0.00072450	+0.00020904		
C/2000 D3	2000 02 26.27923	22 45 02.6	-09 52 51		249
Geocentric position (AU)	+0.00894773	-0.00072046	+0.00021038		
C/2000 D3	2000 02 26.41256	22 42 09.4	-09 34 09		249
Geocentric position (AU)	+0.00895865	-0.00068813	+0.00022110		
C/2000 D3	2000 02 26.42090	22 41 57.2	-09 32 45		249
Geocentric position (AU)	+0.00895932	-0.00068611	+0.00022177		

C/2000 F1 (SOHO)

C/2000 F1	2000 03 31.84590	00 55 23.4	+03 33 50		249
Geocentric position (AU)	+0.00902906	+0.00563848	+0.00194489		
C/2000 F1	2000 03 31.89851	00 54 33.9	+03 38 09		249
Geocentric position (AU)	+0.00902742	+0.00564450	+0.00194605		
C/2000 F1	2000 03 31.94432	00 53 57.8	+03 41 48		249
Geocentric position (AU)	+0.00902599	+0.00564972	+0.00194707		
C/2000 F1	2000 03 31.97091	00 53 30.9	+03 44 29		249
Geocentric position (AU)	+0.00902516	+0.00565275	+0.00194766		
C/2000 F1	2000 04 01.01257	00 52 51.2	+03 48 33		249
Geocentric position (AU)	+0.00902386	+0.00565750	+0.00194857		

C/2000 F1	2000 04 01.02923	00 52 37.7	+03 49 36		249
Geocentric position (AU)	+0.00902334	+0.00565939	+0.00194894		
C/2000 F1	2000 04 01.07676	00 51 51.4	+03 53 08		249
Geocentric position (AU)	+0.00902185	+0.00566480	+0.00194999		
C/2000 F1	2000 04 01.18757	00 49 52.7	+04 05 31		249
Geocentric position (AU)	+0.00901836	+0.00567737	+0.00195242		
C/2000 F1	2000 04 01.22924	00 49 08.0	+04 09 26		249
Geocentric position (AU)	+0.00901704	+0.00568208	+0.00195333		
C/2000 F1	2000 04 01.24590	00 48 47.0	+04 11 20		249
Geocentric position (AU)	+0.00901651	+0.00568397	+0.00195370		
C/2000 F1	2000 04 01.25423	00 48 39.7	+04 12 09		249
Geocentric position (AU)	+0.00901625	+0.00568491	+0.00195388		
C/2000 F1	2000 04 01.27090	00 48 20.7	+04 14 04		249
Geocentric position (AU)	+0.00901572	+0.00568679	+0.00195424		
C/2000 F1	2000 04 01.28756	00 47 59.0	+04 15 23		249
Geocentric position (AU)	+0.00901519	+0.00568867	+0.00195460		
C/2000 F1	2000 04 01.31345	00 47 27.7	+04 18 17		249
Geocentric position (AU)	+0.00901437	+0.00569160	+0.00195517		

P/2000 G1 (LINEAR)

P/2000 G1	2000 04 07.45368	18 06 50.72	-07 26 35.3	17.9 T	704
P/2000 G1	2000 04 07.48656	18 06 50.91	-07 25 13.7	18.3 T	704
P/2000 G1	2000 04 08.09218	18 07 02.04	-07 00 18.9	17.6 T	046
P/2000 G1	2000 04 08.09337	18 07 02.08	-07 00 15.3		046
P/2000 G1	2000 04 08.09478	18 07 02.04	-07 00 11.9		046
P/2000 G1	2000 04 08.09581	18 07 01.95	-07 00 07.8		046
P/2000 G1	2000 04 08.43066	18 07 07.01	-06 46 31.8	17.5 T	734
P/2000 G1	2000 04 08.43301	18 07 07.01	-06 46 26.6	17.2 T	734
P/2000 G1	2000 04 08.43635	18 07 06.97	-06 46 20.1	17.9 T	5 734
P/2000 G1	2000 04 09.11350	18 07 16.05	-06 19 36.5	16.7 T	046
P/2000 G1	2000 04 09.11552	18 07 16.07	-06 19 32.5		046
P/2000 G1	2000 04 09.11674	18 07 16.05	-06 19 29.0		046
P/2000 G1	2000 04 09.11779	18 07 16.05	-06 19 26.9		046
P/2000 G1	2000 04 09.11894	18 07 16.04	-06 19 24.1		046
P/2000 G1	2000 04 09.12022	18 07 16.08	-06 19 21.2		046
P/2000 G1	2000 04 10.37396	18 07 27.60	-05 31 46.1	17.0 T	5 850
P/2000 G1	2000 04 10.38333	18 07 27.55	-05 31 26.1	17.1 T	850
P/2000 G1	2000 04 10.39097	18 07 27.49	-05 31 09.2	17.1 T	850
P/2000 G1	2000 04 10.40069	18 07 27.41	-05 30 46.9	17.0 T	850
P/2000 G1	2000 04 10.40975	18 07 27.41	-05 30 27.2	17.1 T	5 850
P/2000 G1	2000 04 10.41875	18 07 27.22	-05 30 05.9		5 850
P/2000 G1	2000 04 10.42778	18 07 27.33	-05 29 48.5	16.7 T	850
P/2000 G1	2000 04 10.76979	18 07 29.63	-05 17 17.2	16.9 T	372
P/2000 G1	2000 04 10.78472	18 07 29.60	-05 16 45.2		372
P/2000 G1	2000 04 11.77960	18 07 32.13	-04 41 31.6	16.1 T	402
P/2000 G1	2000 04 11.78190	18 07 32.10	-04 41 26.7		402
P/2000 G1	2000 04 11.78420	18 07 32.09	-04 41 22.2		402
P/2000 G1	2000 04 11.78652	18 07 32.09	-04 41 16.9		402
P/2000 G1	2000 04 12.38344	18 07 32.53	-04 20 48.8	18.4 T	704
P/2000 G1	2000 04 12.40851	18 07 32.23	-04 20 00.6	18.7 T	704
P/2000 G1	2000 04 12.43773	18 07 31.84	-04 19 01.6	18.6 T	704
P/2000 G1	2000 04 12.77465	18 07 30.84	-04 07 42.9	16.5 T	372
P/2000 G1	2000 04 12.78785	18 07 30.65	-04 07 17.1		372

P/2000 G1	2000 04 12.79549	18 07 30.64	-04 07 03.0	15.0 T	360
P/2000 G1	2000 04 12.79931	18 07 30.58	-04 06 55.3		360
P/2000 G1	2000 04 12.80382	18 07 30.52	-04 06 46.3		360
P/2000 G1	2000 04 13.41250	18 07 28.38	-03 46 51.7	17.9 T	704
P/2000 G1	2000 04 13.41951	18 07 28.21	-03 46 38.2	17.8 T	704
P/2000 G1	2000 04 13.42041	18 07 28.19	-03 46 38.5	16.8 T	704
P/2000 G1	2000 04 13.42675	18 07 28.03	-03 46 23.1	18.3 T	704
P/2000 G1	2000 04 13.43341	18 07 28.00	-03 46 11.5	18.0 T	704
P/2000 G1	2000 04 13.43365	18 07 27.95	-03 46 12.5	17.1 T	704
P/2000 G1	2000 04 13.44690	18 07 27.42	-03 45 45.4	17.1 T	704
P/2000 G1	2000 04 13.44721	18 07 27.60	-03 45 46.7	18.0 T	704
P/2000 G1	2000 04 13.45434	18 07 27.43	-03 45 30.2	18.1 T	704
P/2000 G1	2000 04 13.46018	18 07 27.28	-03 45 22.0	17.3 T	704
P/2000 G1	2000 04 14.42241	18 07 20.44	-03 14 55.4	17.7 T	704
P/2000 G1	2000 04 14.43580	18 07 20.11	-03 14 31.0	17.5 T	704
P/2000 G1	2000 04 14.44914	18 07 19.87	-03 14 05.7	17.6 T	704
P/2000 G1	2000 04 15.05838	18 07 13.56	-02 55 37.7		118
P/2000 G1	2000 04 15.06542	18 07 13.47	-02 55 24.4	16.5 T	118
P/2000 G1	2000 04 15.09896	18 07 12.78	-02 54 24.1		046
P/2000 G1	2000 04 15.10106	18 07 12.78	-02 54 20.2		046
P/2000 G1	2000 04 15.10226	18 07 12.75	-02 54 18.4		046
P/2000 G1	2000 04 15.10366	18 07 12.71	-02 54 15.6		046
P/2000 G1	2000 04 15.10471	18 07 12.68	-02 54 13.8	16.5 T	046
P/2000 G1	2000 04 16.78091	18 06 47.09	-02 05 31.0		349
P/2000 G1	2000 04 16.78318	18 06 47.12	-02 05 26.9	15.9 T	349
P/2000 G1	2000 04 16.78456	18 06 46.99	-02 05 24.5		349

4P/Faye

4P	2000 03 03.02708	09 39 04.49	+03 40 59.6	17.0 T	561
4P	2000 03 03.03623	09 39 04.12	+03 41 03.2	17.0 T	561
4P	2000 03 14.57574	09 32 34.36	+04 55 12.0	16.2 T	900
4P	2000 03 14.58720	09 32 34.01	+04 55 15.2		900
4P	2000 03 27.17264	09 28 31.98	+06 03 37.1	16.2 T	699
4P	2000 03 27.19311	09 28 31.70	+06 03 43.5		699
4P	2000 03 27.21359	09 28 31.35	+06 03 50.1		699
4P	2000 03 27.23410	09 28 31.01	+06 03 55.1		699
4P	2000 03 27.88426	09 28 24.24	+06 06 57.1	17.2 T	049
4P	2000 03 27.89676	09 28 24.12	+06 07 01.3	17.2 T	049
4P	2000 03 27.90858	09 28 23.95	+06 07 04.1	17.4 T	049
4P	2000 04 02.13133	09 27 46.96	+06 30 08.9	17.0 T	699
4P	2000 04 02.15119	09 27 46.79	+06 30 16.7		699
4P	2000 04 02.17101	09 27 46.81	+06 30 19.5		699
4P	2000 04 02.19082	09 27 46.75	+06 30 25.3		699

50P/Arend

50P	2000 03 27.18902	07 27 00.23	+38 23 56.0	19.4 T	704
50P	2000 03 27.20361	07 27 01.00	+38 23 48.3	19.5 T	704
50P	2000 03 27.23287	07 27 02.54	+38 23 29.7	19.7 T	704
50P	2000 03 27.24739	07 27 03.35	+38 23 21.2	19.9 T	704

59P/Kearns-Kwee

59P	2000 01 13.23553	08 23 21.31	+23 18 45.7	15.6 T	699
59P	2000 01 13.26096	08 23 20.04	+23 18 43.1		699
59P	2000 01 13.28641	08 23 18.52	+23 18 41.1		699

63P/Wild 1						
63P	2000 04 11.65453	13 48 44.35	−31 39 48.0			402
63P	2000 04 11.65683	13 48 44.20	−31 39 48.3	16.0 T		402
63P	2000 04 11.65914	13 48 44.06	−31 39 51.6			402
71P/Clark						
71P	2000 03 03.04537	11 07 28.85	+21 19 22.3	18.3 T		561
71P	2000 03 03.05058	11 07 28.54	+21 19 24.9	18.3 T		561
71P	2000 03 03.05521	11 07 28.23	+21 19 26.7	18.2 T		561
71P	2000 03 28.12013	10 42 50.60	+22 57 04.9	19.0 T		704
71P	2000 03 28.13455	10 42 49.87	+22 57 05.9	18.7 T		704
71P	2000 03 28.16359	10 42 48.35	+22 57 08.0	19.6 T		704
71P	2000 03 30.65521	10 40 44.15	+22 59 16.6	18.3 T		360
71P	2000 03 30.65938	10 40 43.94	+22 59 16.8			360
73P/Schwassmann-Wachmann 3						
73P	2000 03 30.53785	07 47 35.42	+32 34 19.5	19.2 T	6 360	
73P	2000 03 30.54306	07 47 35.32	+32 34 19.0		6 360	
74P/Smirnova-Chernykh						
74P	2000 03 12.47819	06 51 23.16	+27 42 16.2			349
74P	2000 03 12.48162	06 51 23.22	+27 42 16.7			349
74P	2000 03 12.48434	06 51 23.28	+27 42 16.5	16.3 T		349
74P	2000 04 02.12590	07 00 01.35	+27 23 50.9	17.4 T		704
74P	2000 04 02.14025	07 00 01.94	+27 23 48.5	18.1 T		704
74P	2000 04 02.15461	07 00 02.45	+27 23 47.3	17.5 T		704
74P	2000 04 02.16897	07 00 03.02	+27 23 46.8	17.6 T		704
74P	2000 04 02.18333	07 00 03.56	+27 23 45.3	17.4 T		704
106P/Schuster						
106P	2000 03 01.44308	03 18 34.75	+32 04 51.6	15.2 T		900
106P	2000 03 01.45701	03 18 36.89	+32 05 04.0			900
113P/Spitaler						
113P	1986 09 30.38889	03 08 38.41	+20 35 34.8	15 T	7 675	
113P	1986 09 30.45833	03 08 38.37	+20 35 51.4		7 675	
117P/Helin-Roman-Alu 1						
117P	1999 10 10.27110	03 14 55.73	+12 07 08.0	19.6 T		704
117P	1999 10 10.28687	03 14 55.32	+12 07 07.6	20.1 T		704
117P	1999 10 10.31837	03 14 54.36	+12 07 04.5	20.3 T		704
117P	1999 10 15.35765	03 12 34.58	+11 59 31.2	18.0 T		704
117P	1999 10 15.37398	03 12 34.11	+11 59 30.9	18.1 T		704
117P	1999 10 15.39012	03 12 33.53	+11 59 28.5	18.3 T		704
117P	1999 10 15.40602	03 12 33.03	+11 59 26.7	18.0 T		704
136P/Mueller 3						
136P	1999 10 19.26533	03 48 04.18	+06 39 17.2	18.1 T		704
136P	1999 10 19.29332	03 48 03.39	+06 39 10.9	18.6 T		704
136P	1999 10 19.30736	03 48 03.10	+06 39 07.3	18.7 T		704
136P	1999 10 19.32143	03 48 02.65	+06 39 04.9	18.4 T		704
143P/Kowal-Mrkos						
143P	2000 02 07.41505	11 50 54.21	−06 08 37.8	19.2 N		704
143P	2000 02 07.43983	11 50 53.80	−06 08 38.7	19.6 N		704
143P	2000 02 07.46454	11 50 53.74	−06 08 41.7	19.7 N		704
143P	2000 02 07.51363	11 50 53.27	−06 08 46.2	19.6 N		704

143P	2000 03 01.31892	11 43 10.49	−05 48 11.8	17.3 N		703
143P	2000 03 01.33476	11 43 09.99	−05 48 09.5	17.2 N		703
143P	2000 03 01.35084	11 43 09.44	−05 48 06.3	17.4 N		703
143P	2000 03 01.36668	11 43 08.90	−05 48 03.9	17.4 N		703
143P	2000 03 09.30345	11 38 37.03	−05 21 29.0	18.9 N		704
143P	2000 03 09.31712	11 38 36.55	−05 21 24.9	19.1 N		704
143P	2000 03 09.33124	11 38 36.02	−05 21 22.0	19.2 N		704
143P	2000 03 09.34446	11 38 35.47	−05 21 18.5	19.4 N		704
143P	2000 03 13.32378	11 36 09.13	−05 05 01.2	17.5 N		704
143P	2000 03 13.33832	11 36 08.59	−05 04 57.1	17.7 N		704
143P	2000 03 13.35219	11 36 08.03	−05 04 53.7	18.0 N		704
143P	2000 03 13.36584	11 36 07.48	−05 04 51.5	17.5 N		704
143P	2000 04 02.23079	11 24 33.99	−03 28 23.1	16.9 N		699
143P	2000 04 02.25459	11 24 33.28	−03 28 16.0			699
143P	2000 04 02.27836	11 24 32.47	−03 28 08.9			699
143P	2000 04 02.30211	11 24 31.79	−03 28 02.0			699
143P	2000 04 04.25261	11 23 36.73	−03 18 22.7	17.0 N		704
143P	2000 04 04.26700	11 23 36.27	−03 18 17.8	16.8 N		704
143P	2000 04 04.28136	11 23 35.85	−03 18 13.3	17.3 N		704
143P	2000 04 04.29580	11 23 35.43	−03 18 10.1	17.4 N		704
143P	2000 04 04.31016	11 23 35.02	−03 18 04.7	17.5 N		704
143P	2000 04 08.20481	11 21 56.74	−02 59 21.7	17.0 N		704
143P	2000 04 08.21967	11 21 56.39	−02 59 16.9	17.1 N		704
143P	2000 04 08.23394	11 21 56.00	−02 59 13.1	17.2 N		704
143P	2000 04 08.25273	11 21 55.57	−02 59 08.5	17.1 N		704
143P	2000 04 08.26689	11 21 55.17	−02 59 03.9	17.3 N		704
143P	2000 04 12.88480	11 20 21.26	−02 38 16.1			557
143P	2000 04 12.89728	11 20 21.02	−02 38 12.9			557
143P	2000 04 12.91098	11 20 20.75	−02 38 09.3			557
143P	2000 04 13.80913	11 20 05.78	−02 34 17.5	16.4 N		118
143P	2000 04 13.81934	11 20 05.58	−02 34 14.2	16.5 N		118
143P	2000 04 13.82605	11 20 05.38	−02 34 13.3	16.6 N		118
143P	2000 04 14.82260	11 19 49.89	−02 30 02.2	16.4 N		046
143P	2000 04 14.82587	11 19 49.78	−02 30 01.2			046
143P	2000 04 14.83013	11 19 49.73	−02 30 00.8			046
143P	2000 04 14.83529	11 19 49.63	−02 29 59.9	16.5 N		046
143P	2000 04 14.84743	11 19 49.37	−02 29 57.5			557
143P	2000 04 14.86550	11 19 49.07	−02 29 53.8			557
143P	2000 04 14.87973	11 19 48.85	−02 29 49.7			557

Note 1: poor sky. 2: bad seeing. 3: poor image. 4: poor distribution of reference stars. 5: involved with star. 6: faint image. 7: beginning and end of trail at previously unrecognized return.

OBSERVATIONS OF MINOR PLANETS

The summary lists, for each observatory code, the designation of each object observed (an asterisk signifying a new discovery), with three numbers indicating the number of observations, the number of different nights on which the object was observed and the arc (in days) covered by the observations; at the end of each observatory listing there is a count of the total number of observations, of the number of objects and of the number of discoveries followed by an asterisk, together with the total range of dates covered by the observations.

010 Caussols

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [ericelst@ksb-orb.oma.be] (1)

M. Scardia, Osservatorio Astronomico di Brera, Succursale di S. Rocco, via E. Bianchi 46, I-22055 Merate, Italy [scardia@merate.mi.astro.it] (3)

Observers C. Pollas, D. Albanese, M. Scardia

Measurers E. W. Elst, M. Scardia

0.9-m Schmidt telescope

{1} 1994 CX₁₅, 2, 1, 0; 1997 NQ₃, 3, 1, 0; 1997 ST₁₇, 3, 1, 0; 1999 EF₁₂, 5, 2, 13; 1999 XO₈₆, 3, 1, 0; 1999 XW₁₆₂, 2, 1, 0; 2000 CK₂, 3, 1, 0; 2000 DY₈₇, 3, 1, 0; 2000 EW₂₅, 3, 1, 0; 2000 EZ₃₉, 2, 1, 0; 2000 EZ₄₁, 3, 1, 0; 2000 EZ₅₆, 2, 1, 0; 2000 ES₆₄, 3, 1, 0; 2000 ES₁₁₉, 2, 1, 0; 2000 ES₁₅₄, 3, 1, 0; 9594 P-L, 6, 2, 28; (13844), 3, 1, 0; [51, 17, 0*, 1992/10/23–1996/02/17]

{3} 1992 RE₂, 2, 1, 0; [2, 1, 0*, 1994/01/17]

012 Uccle

E. W. Elst, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Eric.Elst@oma.be] (1)

T. Pauwels, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Thierry.Pauwels@oma.be] (2)

Observers E. W. Elst, T. Pauwels, H. Boffin, D. Taeymans

Measurers E. W. Elst, T. Pauwels

0.85-m $f/2.5$ Schmidt + CCD

GSC-1.2

{1} 1999 XG₄₄, 2, 1, 0; 1999 XO₁₁₉, 2, 1, 0; 2000 EN₂₆, 2, 1, 0; 2000 EW₇₀, 4, 1, 0; 2000 EC₁₃₀, 2, 1, 0; 2000 EQ₁₄₁, 2, 1, 0; 2000 ES₁₄₁, 2, 1, 0; 2000 EU₁₅₀, 2, 1, 0; 2000 EK₁₅₁ *, 2, 1, 0; 2198 T-1, 2, 1, 0; [22, 10, 1*, 1999/11/03–2000/04/06]

{2} 1986 PO₂, 5, 1, 0; 1996 EC₆, 5, 1, 0; 2000 DL₄₈, 5, 1, 0; 2000 DG₅₃, 2, 1, 0; 2000 DM₁₁₀, 3, 1, 0; 2000 DO₁₁₀, 5, 1, 0; 2000 DT₁₁₂ *, 10, 2, 5; 2000 DU₁₁₂ *, 10, 2, 5; 2000 DV₁₁₂ *, 9, 2, 5; 2000 EU₇, 5, 1, 0; 2000 EM₁₉, 5, 1, 0; 2000 EW₇₀, 10, 1, 0; 2000 GU₁₂₇, 5, 1, 0; 2000 GW₁₂₇, 6, 1, 0; (9318), 4, 1, 0; [89, 15, 3*, 1999/03/15–2000/04/11]

026 Zimmerwald

P. Wild, Astronomisches Institut der Universität, Sidlerstrasse 5, CH-3012 Berne, Switzerland [schildknecht@aiub.unibe.ch]

0.4-m Schmidt telescope

PPM

2000 ER₁₁₁, 2, 1, 0; [2, 1, 0*, 1993/11/12–1993/11/13]

033 Tautenburg

F. Börngen, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg, Germany [boerg@tls-tautenburg.de]

1.3-m Schmidt telescope

PPM

1993 FT₂, 2, 1, 0; 1994 CE₆, 2, 1, 0; 1995 FO₁, 2, 1, 0; 1998 SJ₁₁₅, 2, 1, 0; 1998 VX₄₄, 2, 1, 0; 1998 XU₄, 2, 1, 0; 1998 YD₂, 2, 1, 0; 2000 FZ₂₅, 2, 1, 0; 2000 GG₇₆, 2, 1, 0; (14256), 2, 1, 0; [20, 10, 0*, 1992/11/24–1995/03/24]

046 Kleť

J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, Czech Republic [klet@klet.cz]

Observers J. Tichá, M. Tichý, Z. Moravec

Measurers M. Tichý, Z. Moravec

0.57-m $f/5.2$ reflector + CCD

USNO-A2.0

GA CR 205/98/0266

1982 RK₁, 6, 2, 3; 1984 SL₄, 6, 2, 4; 1986 JK, 11, 2, 2; 1989 UM₄, 6, 2, 4; 1995 EP₁, 3, 1, 0; 1997 SF, 6, 2, 4; 1998 QL₃₈, 3, 1, 0; 1998 VB₁₃, 4, 1, 0; 1998 WQ, 8, 3, 18; 1998 YO₃, 6, 2, 6; 1998 YC₈, 6, 2, 3; 1999 JV₆, 8, 1, 0; 1999 VS₆, 6, 1, 0; 2000 CX₆₂, 6, 2, 4; 2000 DH₄, 5, 1, 0; 2000 DM₈, 4, 1, 0; 2000 DP₆₄, 14, 2, 8; 2000 EE₁₄, 5, 1, 0; 2000 EH₂₆, 4, 1, 0; 2000 EJ₂₆, 10, 2, 2; 2000 ES₇₀, 3, 1, 0; 2000 EV₇₀, 4, 1, 0; 2000 EW₇₀, 9, 2, 3; 2000 ED₁₀₄, 6, 1, 0; 2000 EE₁₀₄, 21, 4, 18; 2000 EF₁₀₄, 4, 1, 0; 2000 EX₁₀₆, 4, 1, 0; 2000 EZ₁₀₆, 10, 2, 1; 2000 EA₁₀₇, 19, 4, 15; 2000 EB₁₀₇, 8, 2, 1; 2000 EC₁₀₇, 5, 1, 0; 2000 EK₁₄₅, 10, 2, 1; 2000 EZ₁₄₈, 6, 1, 0; 2000 FM₈, 4, 1, 0; 2000 FN₈ *, 30, 6, 20; 2000 FO₈ *, 24, 5, 15; 2000 FH₁₀, 4, 1, 0; 2000 FK₁₀, 5, 1, 0; 2000 FL₁₀, 10, 2, 16; 2000 FN₁₀, 6, 1, 0; 2000 FO₁₀, 7, 1, 0; 2000 FP₁₀, 6, 1, 0; 2000 FA₁₆, 10, 2, 4; 2000 FN₁₇, 3, 1, 0; 2000 GA₂, 8, 1, 0; 2000 GC₂, 12, 3, 14; 2000 GD₂, 4, 1, 0; 2000 GE₂, 11, 2, 10; 2000 GF₂, 5, 1, 0; 2000 GO₂ *, 8, 2, 4; 2000 GV₃ *, 16, 4, 12; 2000 GW₃ *, 17, 4, 12; 2000 GE₄ *, 20, 4, 8; 2000 GF₄, 6, 1, 0; 2000 GQ₇, 5, 1, 0; 2000 GN₃₄, 4, 1, 0; 2000 GN₈₂ *, 14, 3, 6; 2000 GO₈₂, 6, 1, 0; 2000 GP₈₂, 4, 1, 0; 2000 GQ₁₂₇, 3, 1, 0; 2000 GR₁₂₇, 10, 2, 2; 2000 GU₁₂₇, 7, 2, 1; 2000 GV₁₂₇, 8, 2, 5; 2000 GW₁₂₇, 6, 1, 0; 2000 GX₁₂₇, 5, 1, 0; 2000 GQ₁₄₆, 5, 1, 0; 2000 GR₁₄₆, 4, 1, 0; 2000 GS₁₄₆, 5, 1, 0; (4411), 3, 1, 0; (13047), 3, 1, 0; (14068), 3, 1, 0; [547, 71, 7*, 1995/03/01–2000/04/16]

049 Kvistaberg

C.-I. Lagerkvist, Uppsala Astronomical Observatory, Box 515, S-751 20 Uppsala, Sweden [classe@astro.uu.se]

G. Hahn, DLR - Institute Space Sensor Technology and of Planetary Exploration, Rutherfordstrasse 2, D-12489 Berlin, Germany [Gerhard.Hahn@DLR.de]

Observers T.Oja, O.Karlsson, C.-I.Lagerkvist, J.Warell, B.Davidsson

Measurers J.Warell, C.-I.Lagerkvist, A.Erikson, G.Hahn, S.Mottola

1.0m Schmidt + CCD

USNO-SA2.0

1979 QX₂, 3, 1, 0; 1980 FE₂, 3, 1, 0; 1984 SM₅, 9, 3, 8; 1985 RN₃, 6, 2, 1; 1985 UO₃, 3, 1, 0; 1991 AF₂, 3, 1, 0; 1992 SY₂₄, 3, 1, 0; 1993 FS₁₁, 3, 1, 0; 1993 FX₁₁, 6, 2, 7; 1993 FT₅₆, 3, 1, 0; 1994 WT, 3, 1, 0; 1995 BY₂, 3, 1, 0; 1997 CH₂₀, 3, 1, 0; 1997 JY₁₃, 3, 1, 0; 1997 NM₃, 9, 2, 1; 1997 UA₇, 6, 2, 3; 1997 UZ₂₃, 3, 1, 0; 1998 KK₉, 3, 1, 0; 1998 QJ₄, 8, 3, 11; 1998 SR₁₄, 3, 1, 0; 1998 SW₂₂, 3, 1, 0; 1998 SQ₂₃, 3, 1, 0; 1998 SP₅₃, 3, 1, 0; 1998 SD₅₆, 3, 1, 0; 1998 SD₅₉, 6, 2, 13; 1998 SK₆₃, 9, 3, 5; 1998 SV₁₁₇, 3, 1, 0; 1998 SX₁₆₁, 3, 1, 0; 1998 TF, 3, 1, 0; 1998 YC₁, 3, 1, 0; 1999 TC₁₀, 3, 1, 0; 1999 XF₁₈, 3, 1, 0; 1999 XN₉₁, 3, 1, 0; 1999 XZ₁₇₂, 3, 1, 0; 1999 XK₁₇₃, 3, 1, 0; 2000 AS₈₄, 3, 1, 0; 2000 AH₁₃₇, 3, 1, 0; 2000 AT₁₉₈, 3, 1, 0; 2000 AC₂₄₀, 3, 1, 0; 2000 AV₂₄₃, 6, 2, 1; 2000 CV₃₆, 3, 1, 0; 2000 CX₅₂, 3, 1, 0; 2000 CB₅₃, 6, 2, 1; 2000 CW₅₇, 6, 2, 1; 2000 CM₇₈, 3, 1, 0; 2000 CE₈₀, 3, 1, 0; 2000 CN₈₈, 3, 1, 0; 2000 CH₉₁, 9, 2, 1; 2000 CV₁₁₁, 3, 1, 0; 2000 CJ₁₁₃ *, 3, 1, 0; 2000 CR₁₁₃, 3, 1, 0; 2000 DM₈, 3, 1, 0; 2000 DZ₁₅, 3, 1, 0; 2000 DS₅₁, 3, 1, 0; 2000 FB₁₅ *, 6, 2, 1; 2000 DA₅₂, 6, 2, 1; 2000 DX₅₅, 3, 1, 0; 2000 DF₅₆, 6, 2, 28; 2000 DS₆₀, 3, 1, 0; 2000 DZ₆₀, 3, 1, 0; 2000 DD₆₁, 3, 1, 0; 2000 DE₆₁, 6, 1, 0; 2000 DU₆₁, 3, 1, 0; 2000 DQ₆₇, 3, 1, 0; 2000 DY₉₂, 3, 1, 0; 2000 DO₁₀₆, 9, 3, 9; 2000 DO₁₁₀, 6, 2, 1; 2000 ET₁₀, 9, 3, 10; 2000 EX₃₆, 3, 1, 0; 2000 EF₅₇, 3, 1, 0; 2000 EG₅₇, 3, 1, 0; 2000 EL₅₇, 3, 1, 0; 2000 EP₈₂, 12, 4, 9; 2000 ER₈₃, 3, 1, 0; 2000 ET₈₇, 3, 1, 0; 2000 EK₈₉, 3, 1, 0; 2000 EN₁₀₆, 6, 2, 2; 2000 EP₁₀₆, 15, 5, 7; 2000 ER₁₀₆, 12, 4, 24; 2000 EO₁₁₄ *, 6, 2, 14; 2000 EP₁₁₄ *, 3, 1, 0; 2000 EQ₁₁₄ *, 6, 2, 14; 2000 ER₁₁₄ *, 6, 2, 14; 2000 ES₁₁₄ *, 3, 1, 0; 2000 EH₁₂₂, 3, 1, 0; 2000 EW₁₂₈, 12, 4, 12; 2000 EY₁₃₁, 3, 1, 0; 2000 ES₁₃₂, 6, 2, 2; 2000 ES₁₃₅, 3, 1, 0; 2000 EW₁₃₇ *, 3, 1, 0; 2000 EF₁₃₈, 9, 2, 8; 2000 ER₁₃₈, 6, 2, 9; 2000 ET₁₄₁, 9, 3, 4; 2000 EP₁₅₁, 4, 1, 0; 2000 EZ₁₅₄ *, 3, 1, 0; 2000 FP₇ *, 12, 4, 10; 2000 FQ₇ *, 9, 3, 3; 2000 FR₇ *, 12, 4, 11; 2000 FQ₉ *, 9, 3, 7; 2000 FA₁₅ *, 6, 2, 3; 2000 FB₁₅ *, 12, 4, 11; 2000 FC₁₅ *, 12, 4, 9; 2000 FD₁₅ *, 6, 2, 2; 2000 FQ₁₅, 12, 3, 7; 2000 FB₁₉, 3, 1, 0; 2000 FM₂₅, 3, 1, 0; 2000 FX₃₀ *, 12, 4, 10; 2000 FQ₃₄, 11, 3, 8; 2000 FO₄₂ *, 6, 2, 5; 2000 FS₄₂, 3, 1, 0; 2000 FT₄₂, 3, 1, 0; 2000 FF₅₀ *, 6, 2, 12; 2000 FG₅₀ *, 6, 2, 7; 2000 FH₅₀ *, 6, 2, 8; 2000 FJ₅₀ *, 6, 2, 8; 2000 GQ₉₄, 3, 1, 0; 2000 GZ₁₁₄, 3, 1, 0; 2198 T-1, 6, 2, 2; 4071 T-2, 8, 3, 11; (245), 9, 3, 7; (246), 9, 3, 12; (669), 3, 1, 0; (933), 8, 3, 1, 0; (1018), 3, 1, 0; (1557), 6, 2, 1; (1763), 3, 1, 0; (2130), 6, 2, 2; (3271), 3, 1, 0; (3610), 6, 2, 2; (3883), 6, 2, 2; (4373), 3, 1, 0; (4500), 3, 1, 0; (4862), 3, 1, 0; (5213), 6, 2, 3; (5306), 6, 2, 7; (5586), 9, 3, 6; (6276), 3, 1, 0; (6357), 3, 1, 0; (6464), 9, 3, 3; (6629), 3, 1, 0; (6737), 3, 1, 0; (6902), 3, 1, 0; (7471), 15, 5, 7; (7780), 3, 1, 0; (7833), 3, 1, 0; (9190), 6, 2, 1; (9585), 6, 2, 1; (9604), 3, 1, 0; (9784), 3, 1, 0; (9894), 6, 2, 2; (9936), 3, 1, 0; (10169), 3, 1, 0; (12659), 3, 1, 0; (13042), 3, 1, 0; (13217), 3, 1, 0; (13288), 3, 1, 0; (13302), 3, 1, 0; (13565), 3, 1, 0; (13614), 3, 1, 0; (14264), 3, 1, 0; (14266), 3, 1, 0; [801, 161, 22*, 1999/11/12–2000/04/09]

071 Bulgarian National Observatory

V. Ivanova, Institute of Astronomy, 72 Tsarigradsko Schosse Blvd., Sofia, Bulgaria [ivanova@astro.bas.bg]

Observers V. Ivanova, B. Bilkina, I. Vasileva

Measurers L. Vasileva, B. Bilkina
0.50-m f /1.4 Schmidt + CCD
USNO-A2.0

1999 GJ₄, 3, 1, 0; 1999 SK₁₀, 2, 1, 0; 2000 BG₁₉, 6, 2, 22; 2000 BH₁₉, 3, 1, 0; 2000 BZ₂₇, 4, 1, 0; 2000 DM₁, 3, 1, 0; 2000 ED₁₀₄, 3, 1, 0; (1917), 3, 1, 0; (4055), 4, 1, 0; (4486), 5, 1, 0; (5332), 4, 1, 0; [40, 11, 0*, 2000/03/09–2000/04/03]

095 Crimean Astrophysical Observatory

N. S. Chernykh, Crimean Astrophysical Observatory, Nauchnyj, Crimea UA-98409,
Ukraine [nik@crao.crimea.ua]

V. A. Shor, Institute of Applied Astronomy, Naberezhnaya Kutuzova 10, St.
Petersburg 191187, Russia [shor@quasar.ipa.nw.ru]

Observers N. S. Chernykh, L. I. Chernykh

0.4-m f /4 double astrograph
PPM

1978 TR₇, 1, 1, 0; 1991 PU₁₉, 2, 1, 0; 1993 TA₄₂, 2, 1, 0; 1999 VE₉, 2, 1, 0; 1999 XA₃₂, 2, 1, 0; 2000 AW₂, 1, 1, 0; 2000 AP₆₀, 2, 1, 0; 2000 DA₇₉, 2, 1, 0; [14, 8, 0*, 1991/08/17–1993/09/24]

098 Asiago Observatory, Cima Ekar

U. Munari, Osservatorio Astronomico di Padova, Sede di Asiago, I-36012 Asiago
(VI), Italy [munari@astras.pd.astro.it]

Observers U. Munari, F. Castellani, M. Tombelli, P. Antolini

Measurers F. Castellani, M. Tombelli, G. Forti

0.67-m f /3.2 Schmidt

1994 WN₁, 2, 1, 0; 1996 FD, 2, 1, 0; 2000 EA₇₆, 2, 1, 0; [6, 3, 0*, 1994/12/04–1998/10/26]

104 San Marcello Pistoiese

L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San
Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]

Observers L. Tesi, A. Boattini, M. Tombelli

Measurers G. Forti, L. Tesi, A. Boattini, M. Tombelli

0.40-m f /5 reflector + CCD

GSC

1982 VB₄, 3, 1, 0; 1998 SS₁₃₂, 2, 1, 0; 1998 TE, 4, 1, 0; 1998 XR₄, 2, 1, 0; 1998 YD₁₀, 3, 1, 0; 2000 DG, 3, 1, 0; 2000 DR₃, 3, 1, 0; 2000 DV₁₁₀, 3, 1, 0; 2000 EU₇, 3, 1, 0; 2000 EH₁₄, 6, 2, 16; 2000 EJ₁₄, 7, 2, 16; 2000 EL₁₃₃, 2, 1, 0; [41, 12, 0*, 1997/08/24–2000/04/07]

106 Črni vrh

H. Mikuž, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]

Observers H. Mikuž, J. Skvarč, S. Matičič

0.36-m f /6.7 Schmidt-Cassegrain + CCD, 0.19-m f /4 Schmidt-Cassegrain + CCD

USNO-A2.0

1998 SJ₆₄, 2, 1, 0; 1998 SM₆₄, 3, 1, 0; 1998 SA₇₁, 2, 1, 0; 1998 ST₁₁₉, 2, 1, 0; 1998 SX₁₃₇, 3, 1, 0; 1998 WD₂₀, 3, 1, 0; 1999 TV₂₀, 4, 1, 0; 1999 WR₁₂, 3, 1, 0; 2000 ER₇₆, 3, 1, 0; 2000 EO₁₄₁, 3, 1, 0; (13692), 3, 1, 0; [31, 11, 0*, 1999/10/10–2000/03/22]

108 Montelupo

M. Tombelli, Via Bozzeto 26, I-50056 Montelupo (Fi), Italy

[iau@arcetri.astro.it]

Observers M. Tombelli, A. Boattini, L. Tesi, D. Guidetti, E. Masotti

Measurers M. Tombelli, A. Boattini, L. Tesi, S. Bartolini, G. Forti

0.30-m f /5.7 Schmidt-Cassegrain + CCD

GSC

2000 AL₈₇, 4, 1, 0; 2000 EW₇₀, 7, 1, 0; 2000 EZ₁₀₆, 6, 1, 0; [17, 3, 0*, 2000/01/26–2000/03/22]

112 Osservatorio Pleiade

P. Antolini, Via Bertoldi 84, I-37026 Settimo di Pescantina (Verona), Italy
[flacaste@tin.it]

Observers P. Antolini, F. Castellani

0.60-m f /3.0 reflector + CCD

GSC

1998 SA₁₁₀, 2, 1, 0; [2, 1, 0*, 1998/09/28]

113 Volkssternwarte Drebach, Schönbrunn

G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany

[g.lehmann@abo.freiepresse.de]

Observers G. Lehmann, J. Kandler

0.50-m f /4.0 reflector + CCD, 0.18-m f /9.0 refractor + CCD

USNO-A2.0

2000 EW₇₀, 20, 1, 0; [20, 1, 0*, 2000/03/22]

116 Giesing

H. Beuchat, European Patent Office, Erhardstrasse 27, D-80331 Munich, Germany
[100341.75@compuserve.com]

Observers J.-L. Dighaye, P. Sala

Measurers P. Sala, H. Beuchat

0.20-m reflector + CCD

(5803), 1, 1, 0; [1, 1, 0*, 2000/03/13]

117 Sendling

H. Beuchat, European Patent Office, Erhardstrasse 27, D-80331 Munich, Germany
[100341.75@compuserve.com]

0.20-m f /10 reflector + CCD

GSC

(5), 6, 2, 1; (98), 4, 2, 1; (129), 7, 2, 1; (674), 8, 2, 1; (1036), 5, 2, 1; (1627), 4, 2, 1; [34, 6, 0*, 2000/03/21–2000/03/22]

118 Modra

A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia
[ago@fmph.uniba.sk]

Observers L. Kornoš, J. Tóth, P. Kolény, Š. Gajdoš, A. Galád, D. Kalmančok

0.6-m f /5.5 reflector + CCD

USNO-A2.0

1991 DB, 4, 2, 26; 1994 PM, 3, 1, 0; 1997 WU₂₂, 4, 2, 1; 1998 UY₂₉, 3, 1, 0; 1999 LD₃₁, 2, 1, 0; 1999 NC₄₃, 6, 3, 16; 1999 VS₆, 2, 1, 0; 1999 VM₄₀, 4, 2, 1; 2000 AU₂₄₂, 7, 3, 16; 2000 BG₁₉, 4, 2, 17; 2000 DM₁, 2, 1, 0; 2000 DG₈, 2, 1, 0; 2000 DM₈, 6, 3, 11; 2000 ES₇₀, 2, 1, 0; 2000 EV₇₀, 2, 1, 0; 2000 ED₁₀₄, 2, 1, 0; 2000 EE₁₀₄, 4, 2, 1; 2000 EF₁₀₄, 2, 1, 0; 2000 EX₁₀₆, 9, 4, 11; 2000 EZ₁₀₆, 4, 1, 0; 2000 EA₁₀₇, 6, 2, 17; 2000 EB₁₀₇, 15, 6, 27; 2000 EZ₁₄₈, 4, 2, 1; 2000 FK₁₀, 2, 1, 0; 2000 FL₁₀, 6, 3, 11; 2000 FO₁₀, 4, 2, 1; 2000 GC₂, 3, 1, 0; 2000 GE₂, 4, 2, 1; 2000 GF₂, 4, 2, 1; 2000 GF₄ *, 10, 3, 7; 2000 GN₃₄, 3, 1, 0; 2000 GP₈₂, 3, 1, 0; 2000 GR₁₂₇, 4, 1, 0; 2000 GU₁₂₇, 6, 2, 1; 2000 GV₁₂₇, 6, 2, 2; 2000 GQ₁₄₆, 3, 1, 0; 2000 GR₁₄₆, 3, 1, 0; (1685), 2, 1, 0; (3800), 4, 2, 9; (5332), 2, 1, 0; (5604), 2, 1, 0; (5899), 2, 1, 0; (7092), 2, 1, 0; (11066), 2, 1, 0; [176, 44, 1*, 1995/12/29–2000/04/18]

120 Višnjan

K. Korlević, Istarska 5, HR-51463 Višnjan, Croatia [korado@visnjan.hr]

Observer K. Korlević

Measurers K. Korlević, M. Jurić

0.41-m f /4.3 reflector + CCD

USNO-SA1.0

1977 DQ₃, 3, 1, 0; 1983 RV₃, 3, 1, 0; 1990 WZ₁, 2, 1, 0; 1991 TJ₂, 3, 1, 0; 1992 WS₁, 6, 2, 1; 1996 TR₁₄, 3, 1, 0; 1997 TL₆, 2, 1, 0; 1998 QC₉₂, 2, 1, 0; 1998 QW₉₂, 2, 1, 0; 1998 RP₇₅, 4, 1, 0; 1998 RW₇₉, 7, 2, 9; 1998 SY₃₁, 2, 1, 0; 1998 SS₁₃₂, 3, 1, 0; 1998 SO₁₄₆, 4, 1, 0; 1998 TJ₁₃, 3, 1,

0; 1998 VG₃₆, 3, 1, 0; 1998 XL₁, 2, 1, 0; 1998 YT₃, 3, 1, 0; 1998 YV₁₆, 2, 1, 0; 1999 UU, 2, 1, 0; 1999 VX₇₁, 3, 1, 0; 1999 VJ₁₄₅, 2, 1, 0; 1999 XX₁₉, 2, 1, 0; 2000 AJ₅₈, 2, 1, 0; 2000 AZ₂₃₈, 3, 1, 0; 2000 BQ₃, 3, 1, 0; 2000 BH₁₇, 2, 1, 0; 2000 DD₁₆, 3, 1, 0; 2000 DG₉₄, 3, 1, 0; 2000 EK₁₄, 2, 1, 0; 2000 EE₂₀, 2, 1, 0; 2000 EP₃₆, 2, 1, 0; 2000 EV₄₉, 4, 1, 0; 2000 EC₅₀, 3, 1, 0; 2000 EM₆₂, 2, 1, 0; 2000 EW₇₀, 6, 1, 0; 2000 EY₉₃, 2, 1, 0; 2000 EJ₁₀₄, 2, 1, 0; 2000 EO₁₃₅, 2, 1, 0; 2000 EN₁₄₈, 6, 2, 2; 2000 EU₁₄₈, 3, 1, 0; 2000 FE₂, 2, 1, 0; 2000 FJ₈ *, 7, 3, 10; 2000 FB₁₁ *, 9, 4, 9; 2000 FB₄₈, 2, 1, 0; 2000 GL₃₈, 7, 2, 9; 2000 GY₃₈, 5, 2, 9; 2000 GC₇₂, 6, 2, 1; 2000 GD₇₂, 6, 2, 1; 2000 GG₈₂ *, 6, 2, 1; 2000 GH₈₂ *, 5, 2, 1; 2000 GJ₈₂ *, 5, 2, 1; 2626 P-L, 3, 1, 0; 4264 T-1, 5, 2, 9; 3256 T-3, 3, 1, 0; (1033), 7, 3, 3; (4074), 6, 2, 1; (4258), 4, 1, 0; (6020), 2, 1, 0; (6145), 4, 2, 9; (8070), 2, 1, 0; (8103), 2, 1, 0; (9710), 3, 1, 0; (13904), 2, 1, 0; [223, 64, 5*, 1996/04/16–2000/04/09]

122 Pises Observatory

J. Blanc, 6 Bd. du General de Gaulle, F-91210 Draveil, France
[jhblanc@fr.ibm.com]

Observers J. Blanc, A. Irlande, A. Jacquey, R. Poncy
Measurer J. Blanc
0.40-m $f/4.7$ reflector + CCD
USNO-SA1.0, GSC
1997 RC₃, 3, 1, 0; [3, 1, 0*, 2000/02/04]

130 Lumezzane

S. Foglia, F. Bisleri 11, I-20418 Milan, Italy [s.foglia@libero.it]
Observers G. Pizzetti, W. Marinello, J. Abdalla, C. Cremaschini
Measurers G. Pizzetti, W. Marinello
0.40-m $f/4$ reflector + CCD
USNO-A1.0
(1627), 3, 1, 0; (5153), 3, 1, 0; (5641), 3, 1, 0; (7792), 2, 1, 0; (13497), 3, 1, 0; [14, 5, 0*, 2000/03/11–2000/04/09]

133 Les Tardieux

M. Boeuf, Les Tardieux, St Julien, F-13500 Martigues, France
[Michel.Boeuf@wanadoo.fr]
0.20-m $f/3.5$ reflector + CCD
GSC
2000 EN₁₄₈, 3, 1, 0; (1033), 3, 1, 0; [6, 2, 0*, 2000/04/05]

143 Gnosca

S. Sposetti, CH-6525 Gnosca, Switzerland [spo@bluewin.ch]
0.40-m $f/4$ reflector + CCD
GSC
1999 CA, 9, 2, 8; 2000 EH₁₅, 4, 1, 0; 2000 EJ₁₅, 10, 2, 8; 2000 GO₆₇, 6, 1, 0; [29, 4, 0*, 2000/03/30–2000/04/07]

145 's-Gravenwezel Observatory

T. Alderweireldt, Rozenlaan 14, B-2970 's-Gravenwezel, Belgium
[Tom.Alderweireldt@ping.be]
0.25-m $f/3.3$ Schmidt-Cassegrain + CCD
USNO-SA2.0
2000 EW₇₀, 19, 1, 0; [19, 1, 0*, 2000/03/21]

151 Eschenberg Observatory, Winterthur

M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland
[griesser@spectraweb.ch]
0.25-m $f/8.0$ reflector + CCD
GSC
1988 CY, 12, 3, 6; 1991 DB, 8, 2, 11; 1999 NC₄₃, 8, 2, 6; 2000 AS₂₃₇, 4, 1, 0; 2000 DE₃, 4, 1, 0; 2000 EE₁₄, 11, 2, 1; 2000 EW₇₀, 16, 2, 1; 2000 EE₁₀₄, 24, 4, 6; 2000 EZ₁₄₈, 12, 2, 1; 2000 FL₁₀, 24, 4, 6; 2000 FN₁₀, 6, 1, 0; 2000 GE₂, 18, 3, 2; (375), 5, 1, 0; (798), 4, 1, 0; (1036), 9, 2, 8; (1627), 12, 3, 17; (1685), 16, 4, 25; (4954), 4, 1, 0; (5604), 2, 1, 0; [199, 19, 0*, 2000/03/21–2000/04/15]

154 Cortina

A. Dimai, Via Pecol 95, I-32043 Cortina d' Ampezzo (BL), Italy
Observer A. Dimai
Measurer V. Goretti
0.50-m $f/3.8$ reflector + CCD
GSC, USNO-A2.0
2000 BY₃, 9, 3, 58; [9, 1, 0*, 2000/02/10–2000/04/07]

159 Monte Agliale

M. M. M. Santangelo, Monte Agliale Astronomical Observatory, Borgo a Mozzano, Lucca, Italy [ilra@comune.lucca.it]
Observers S. Donati, E. Mazzoni, M. M. M. Santangelo
Measurers S. Donati, M. M. M. Santangelo
0.51-m $f/4.5$ Newtonian reflector + CCD
USNO-A1.0, USNO-A2.0
1999 CO₈₇, 4, 1, 0; [4, 1, 0*, 1999/01/28]

163 Roeser Observatory, Luxembourg

M. Dawson, 66 rue JF Boch, L-1244 Luxembourg, Luxembourg [dawson@pt.lu]
0.46-m $f/4.5$ reflector + CCD
GSC-ACT
1996 HP, 4, 2, 4; 2000 EB₁₀₇, 3, 1, 0; 2000 GE₂, 3, 1, 0; 2000 GQ₇, 3, 1, 0; [13, 4, 0*, 2000/03/21–2000/04/10]

169 Rosignano

S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy
[starfield@tin.it]
0.25-m $f/5.1$ Schmidt-Cassegrain + CCD
GSC
1994 VR₂, 9, 2, 2; [9, 1, 0*, 2000/03/30–2000/04/01]

178 Collonges

J. G. Bosch, 90 residences du Saleve, F-74160 Collonges, France
[Bosch@sc2a.unige.ch]
0.20-m $f/5$ reflector + CCD
USNO
2000 FQ₁₀, 2, 1, 0; [2, 1, 0*, 2000/04/07]

181 Observatoire des Makes, Saint-Louis

J.-P. Teng-Chuen-Yu, Observatoire des Makes, 18 Rue Georges Bizet, F-97421 La Rivière, France [obs.astronomique@wanadoo.fr]
Observers A. Peyrot, J. P. Teng-Chuen-Yu, S. Perrigault
0.21-m $f/3.10$ reflector
USNO-SA2.0
(2001), 5, 2, 1; [5, 1, 0*, 2000/03/25–2000/03/26]

250 Hubble Space Telescope

M. McMaster, Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218, U.S.A. [mcmaster@stsci.edu]
Observer K. Noll
Measurers R. W. Evans, K. R. Stapelfeldt
2.4-m reflector + $f/28.3$ CCD, 2.4-m reflector + $f/12.9$ CCD
2000 EA₈₂, 6, 1, 0; [6, 1, 0*, 1995/09/06]

292 Burlington

T. Handley, 13 Linden Road, Burlington, NJ 08016, U.S.A.

0.30-m Schmidt-Cassegrain + focal reducer + CCD

GSC

2000 EC₁₀₆, 3, 1, 0; [3, 1, 0*, 1997/07/11]

294 Astrophysical Observatory, College of Staten Island

I. Robbins, The College of Staten Island, 2800 Victory Boulevard, Staten Island,
NY 10314, U.S.A. [robbins@postbox.csi.cuny.edu]

Observer I. Robbins

Measurers I. Robbins, S. Parello

0.41-m $f/6.0$ Schmidt-Cassegrain + CCD

GSC

1994 WR₃, 4, 2, 1; 1998 QN₈₆, 1, 1, 0; 2000 EM₄₇, 4, 2, 1; (10223), 4, 2, 1; (13607), 2, 1, 0; (13918), 4, 2, 1; (13950), 4, 2, 1; (13958), 4, 2, 1; (13977), 5, 2, 1; (14039), 4, 2, 14; (14048), 4, 2, 1; [40, 11, 0*, 2000/03/04–2000/04/07]

300 Bisei Spaceguard Center–BATTeRS

S. Isobe, National Astronomical Observatory, Mitaka, Tokyo 181, Japan

[isobesz@cc.nao.ac.jp]

Observers A. Asami, D. J. Asher, S. Hashimoto, S. Isobe, S. Nakano, Y. Oshima,
J. Terazono, T. Urata, M. Yoshikawa

0.50-m $f/2.0$ reflector + CCD

GSC, USNO-A2.0

(46), 3, 1, 0; (133), 3, 1, 0; (137), 3, 1, 0; (217), 3, 1, 0; (252), 3, 1, 0; (295), 3, 1, 0; (305), 3, 1, 0; (319), 2, 1, 0; (572), 3, 1, 0; (619), 3, 1, 0; (934), 3, 1, 0; (1035), 2, 1, 0; (1201), 3, 1, 0; (1352), 3, 1, 0; (1462), 3, 1, 0; (1546), 3, 1, 0; (1783), 3, 1, 0; (1823), 2, 1, 0; (2017), 1, 1, 0; (2282), 3, 1, 0; (2704), 3, 1, 0; (2881), 3, 1, 0; (3412), 1, 1, 0; (3439), 2, 1, 0; (3668), 3, 1, 0; (4532), 1, 1, 0; (5586), 3, 1, 0; (13351), 2, 1, 0; [73, 28, 0*, 2000/04/01–2000/04/07]

327 Peking Observatory, Xinglong Station

J. Zhu, Peking Astronomical Observatory, Chinese Academy of Sciences,
Zhongguancun, Peking 100101, Peoples Republic of China

[zj@bac.pku.edu.cn]

Observers J. Zhu, X. Zhou, X. M. Teng, C. H. Liu, X. Y. Li

Measurers X. Y. Li, X. M. Teng, C. H. Liu, J. Zhu

0.60-m Schmidt + CCD

1978 VO₅, 3, 1, 0; 1982 UR₂, 3, 1, 0; 1986 WZ, 3, 1, 0; 1989 AN₃, 2, 1, 0; 1990 ES₆, 3, 1, 0; 1990 QV₇, 3, 1, 0; 1990 VE₆, 6, 2, 18; 1991 GM₈, 3, 1, 0; 1991 PC₁₆, 3, 1, 0; 1992 EV₈, 3, 1, 0; 1992 HC₂, 4, 1, 0; 1993 RA₁₃, 3, 1, 0; 1996 AM₁₅, 3, 1, 0; 1996 TD₆, 3, 1, 0; 1997 SK₂₇, 3, 1, 0; 1997 TY₅, 3, 1, 0; 1997 TO₂₆, 3, 1, 0; 1997 UH₄, 3, 1, 0; 1997 WP₄₇, 3, 1, 0; 1997 XF, 3, 1, 0; 1998 EQ₁₀, 3, 1, 0; 1998 KQ₃₅, 3, 1, 0; 1998 QV₉₃, 3, 1, 0; 1998 RW₇₆, 6, 2, 22; 1998 SM₉, 6, 1, 0; 1998 SN₇₃, 2, 1, 0; 1998 SM₇₄, 3, 1, 0; 1998 SU₈₀, 3, 1, 0; 1998 TE₅, 3, 1, 0; 1998 TP₁₄, 3, 1, 0; 1998 UA₃₃, 3, 1, 0; 1998 VO₁₅, 3, 1, 0; 1998 VH₃₅, 6, 2, 41; 1998 XJ₉₅, 3, 1, 0; 1998 YD₂, 3, 1, 0; 1999 BG₁₉, 3, 1, 0; 1999 CO₁₆, 3, 1, 0; 1999 CE₂₈, 4, 1, 0; 1999 GZ₁₆, 3, 1, 0; 1999 UB₁₅, 6, 2, 13; 1999 VE₁₂, 3, 1, 0; 1999 VG₁₅₇, 3, 1, 0; 1999 XP₅, 3, 1, 0; 1999 XL₈, 4, 1, 0; 1999 XV₁₀₄, 3, 1, 0; 1999 XR₁₆₆, 4, 1, 0; 2000 AL₃₃, 3, 1, 0; 2000 AT₄₇, 6, 2, 10; 2000 AK₈₄, 6, 2, 548; 2000 AV₈₅, 3, 1, 0; 2000 AV₁₃₃, 3, 1, 0; 2000 CR₄₉, 3, 1, 0; 2000 CE₆₂, 3, 1, 0; 2000 DR₈, 3, 1, 0; 2000 DU₇₅, 3, 1, 0; 2000 EB₃₈, 4, 1, 0; 2000 ES₃₈, 3, 1, 0; 2000 EZ₃₉, 4, 1, 0; 2000 EB₅₀, 3, 1, 0; 2000 EF₉₆, 4, 1, 0; 2000 EE₁₀₆, 3, 1, 0; 2000 EP₁₀₆, 3, 1, 0; 2000 EY₁₃₁, 3, 1, 0; 2000 EO₁₃₉, 3, 1, 0; 2000 EF₁₅₁, 3, 1, 0; 2000 FZ₃₈, 4, 1, 0; 1118 T-2, 6, 1, 0; (13817), 3, 1, 0; (13847), 9, 3, 21; (14256), 3, 1, 0; [246, 70, 0*, 1995/08/27–1998/12/25]

345 Sobaeksan Optical Astronomy Observatory

S.-L. Kim, Korea Astronomy Observatory (Sobaeksan), 61-1 Whaam-dong,

Yusong-gu, Taejon, 305-348, Korea [slkim@kao.re.kr]

Observers J.-H. Yun, S.-L. Kim, J.-W. Lee

0.61-m reflector + CCD

USNO-A2.0

2000 EZ₁₄₈, 11, 2, 2; 2000 FL₁₀, 4, 1, 0; 2000 GA₂, 3, 1, 0; 2000 GE₂, 2, 1, 0; 2000 GU₁₂₇, 5, 1, 0; [25, 5, 0*, 2000/04/02–2000/04/11]

349 Ageo

K. Kadota, 77-1-3-12-204, Koshikiya, Ageo, Saitama-ken, 362-0064 Japan [kenic-k@astroarts.co.jp]

Observer K. Kadota

Measurers S. Yoshida, K. Kadota

0.18-m $f/5.5$ reflector + CCD

USNO-A1.0

1991 DB, 3, 1, 0; 2000 EW₇₀, 5, 1, 0; 2000 FN₁₀, 4, 1, 0; (433), 3, 1, 0; (1036), 3, 1, 0; (2060), 2, 1, 0; [20, 6, 0*, 2000/03/08–2000/04/01]

350 Kurohone

T. Kobayashi, 91-27, Syukumeguri, Kurohone-Mura, Seta-Gun, Gumna-Ken, 376-0143 Japan [P1997B1@hotmail.com]

0.25-m $f/4.4$ reflector + CCD

GSC

2000 BQ₁₄, 3, 1, 0; 2000 FL, 3, 1, 0; 2000 FM, 3, 1, 0; 2000 FN, 3, 1, 0; 2000 FD₅, 3, 1, 0; 2000 FH₅, 3, 1, 0; 2000 FJ₅, 2, 1, 0; [20, 7, 0*, 2000/04/08]

352 Konan

M. Hotta, Kibougauka 2-5-3, Konan-cho, Koka-gun, Shiga 520-3333, Japan

[mhotta@mx.biwa.or.jp]

0.28-m $f/5.0$ reflector + CCD

GSC

(1627), 3, 1, 0; (4055), 3, 1, 0; [6, 2, 0*, 2000/04/11]

355 Hadano

A. Asami, 28-1 Nishitawara, Hadano, Kanagawa-Ken, 257 Japan

[asami@st.rim.or.jp]

0.2-m $f/6.0$ reflector + CCD, 0.28-m $f/5.0$ reflector + CCD

GSC

2000 EW₇₀, 3, 1, 0; [3, 1, 0*, 2000/03/22]

360 Kuma Kogen Astronomical Observatory

A. Nakamura, Shimo-Hatanokawa, Kuma, Kamiukena-Gun, Ehime-Ken, 791-1212 Japan [a-nakamu@mx2.nisiq.net]

0.60-m $f/5.8$ Ritchey-Chrétien + CCD

GSC-ACT, USNO-A2.0

1994 QC, 3, 1, 0; 1995 DG₁, 3, 1, 0; 1997 UX₈, 3, 1, 0; 1998 FF₂, 3, 1, 0; 1998 YC₁, 2, 1, 0; 1998 YP₅, 2, 1, 0; 1999 LE₃₁, 4, 1, 0; 1999 SK₁₀, 3, 1, 0; 1999 VS₆, 3, 1, 0; 2000 BG₁₉, 3, 1, 0; 2000 DM₁, 3, 1, 0; 2000 EO₁₅, 9, 3, 12; 2000 EP₁₅, 6, 2, 5; 2000 ES₇₀, 3, 1, 0; 2000 EV₇₀, 6, 2, 12; 2000 EE₁₀₁, 6, 2, 13; 2000 ED₁₀₄, 6, 2, 6; 2000 EE₁₀₄, 3, 1, 0; 2000 EF₁₀₄, 3, 1, 0; 2000 EX₁₀₆, 3, 1, 0; 2000 EB₁₀₇, 3, 1, 0; 2000 FL₁₀, 4, 1, 0; 2000 FO₁₀, 3, 1, 0; 2000 GU₁₂₇, 3, 1, 0; 2000 GV₁₂₇, 2, 1, 0; 2000 GW₁₂₇, 3, 1, 0; 2000 GX₁₂₇, 3, 1, 0; 2000 GQ₁₄₆, 3, 1, 0; [101, 28, 0*, 2000/03/25–2000/04/12]

367 Yatsuka

H. Abe, 461-2, Futago, Yatsuka-Cho, Shimane-Ken, 690-14 Japan

[abehiro@daikonshima.or.jp]

0.26-m $f/6.0$ reflector + CCD

GSC

1993 DF₂, 2, 1, 0; 1993 FP₁₄, 2, 1, 0; 1993 FB₁₈, 2, 1, 0; 1993 FJ₄₀, 3, 1, 0; 1997 WB₃₇, 3, 1, 0; 1998 SV₆₄, 3, 1, 0; 1998 UF₈, 2, 1, 0; 1998 XA₄₂, 2, 1, 0; 1999 CD₂₈, 2, 1, 0; 1999 CD₆₃, 3, 1, 0; [24, 10, 0*, 2000/04/01–2000/04/03]

399 Kushiro

H. Kaneda, Taiyo MS 2-H, 2-15, Kawazoe 8 Jo 2 Chime, Minami-Ku, Sapporo, 005 Japan

Observer S. Ueda

Measurer H. Kaneda

0.25-m $f/3.4$ hyperboloid astrocamera

GSC

2000 FW₃₀ *, 10, 3, 7; 2000 GB₄ *, 4, 2, 4; [14, 2, 2*, 2000/03/27–2000/04/06]

402 Dynic Astronomical Observatory

A. Sugie, Dynic Astronomical Observatory, Taga 283-1, Taga, Inukami-Gun, Shiga-Ken, 522-0341 Japan [hhf00201@niftyserve.or.jp]

Observers A. Sugie, Y. Ikari

0.60-m $f/5.0$ reflector + CCD

GSC

1997 NR₁₀, 3, 1, 0; 1998 XT₁₇, 2, 1, 0; 1999 LE₃₁, 3, 1, 0; 1999 TC₅, 3, 1, 0; 1999 VS₆, 3, 1, 0; 2000 DV₁₁₀, 2, 1, 0; 2000 ES₇₀, 3, 1, 0; 2000 ED₁₀₄, 6, 2, 3; 2000 EF₁₀₄, 3, 1, 0; 2000 EW₁₀₆, 4, 1, 0; 2000 EX₁₀₆, 7, 2, 19; 2000 EZ₁₀₆, 4, 1, 0; 2000 EB₁₀₇, 7, 2, 22; 2000 EZ₁₄₈, 3, 1, 0; 2000 FL₁₀, 3, 1, 0; 2000 FO₁₀, 3, 1, 0; 2000 GE₂, 3, 1, 0; 2000 GF₂, 6, 2, 3; 2000 GG₂, 3, 1, 0; 2000 GO₈₂, 4, 1, 0; 2000 GP₈₂, 7, 2, 3; 2000 GR₁₂₇, 4, 1, 0; 2000 GU₁₂₇, 4, 1, 0; 2000 GV₁₂₇, 4, 1, 0; 2000 GW₁₂₇, 4, 1, 0; 2000 GQ₁₄₆, 5, 1, 0; (5332), 3, 1, 0; (7076), 3, 1, 0; (13506), 4, 1, 0; [113, 29, 0*, 2000/03/01–2000/04/11]

411 Oizumi

T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-0515 Japan [kobataka@sannet.ne.jp]

0.25-m $f/4.4$ reflector + CCD, 0.41-m $f/4.3$ reflector + CCD

GSC

2000 BE₁, 4, 2, 1; 2000 BQ₁₄, 3, 1, 0; 2000 BB₁₅, 4, 2, 10; 2000 DQ₂, 2, 1, 0; 2000 DR₂, 2, 1, 0; 2000 DS₂, 2, 1, 0; 2000 DT₂, 2, 1, 0; 2000 DU₃, 3, 1, 0; 2000 DV₂, 2, 1, 0; 2000 DW₂, 2, 1, 0; 2000 DX₂, 2, 1, 0; 2000 DY₂, 2, 1, 0; 2000 DZ₂, 2, 1, 0; 2000 DY₂, 7, 3, 2; 2000 DZ₂, 2, 1, 0; 2000 DA₃, 2, 1, 0; 2000 DB₃, 2, 1, 0; 2000 DD₃, 2, 1, 0; 2000 DE₃, 2, 1, 0; 2000 DF₃, 2, 1, 0; 2000 DG₃, 2, 1, 0; 2000 DC₇, 2, 1, 0; 2000 DD₇, 2, 1, 0; 2000 DE₇, 2, 1, 0; 2000 DF₇, 2, 1, 0; 2000 DG₇, 2, 1, 0; 2000 DJ₇, 2, 1, 0; 2000 DK₇, 2, 1, 0; 2000 DL₇, 2, 1, 0; 2000 DN₇, 4, 2, 1; 2000 ED₂, 2, 1, 0; 2000 EE₂, 2, 1, 0; 2000 EF₂, 2, 1, 0; 2000 EX₁₀₈, 4, 2, 1; 2000 FL₅, 4, 2, 1; 2000 FM₅, 4, 2, 1; 2000 FN₅ *, 4, 2, 1; 2000 FD₅ *, 4, 2, 1; 2000 FE₅ *, 4, 2, 1; 2000 FF₅ *, 4, 2, 1; 2000 FG₅ *, 4, 2, 1; 2000 FH₅ *, 4, 2, 1; 2000 FJ₅ *, 4, 2, 1; [119, 43, 9*, 2000/02/27–2000/03/30]

413 Siding Spring

R. H. McNaught, Research School of Astronomy and Astrophysics, Siding Spring Observatory, Coonabarabran, NSW 2357, Australia [rmn@aaocbn.aao.gov.au] (1)

A. Gnädig, c/o Archenhold-Sternwarte, Alt-Treptow 1, D-12435 Berlin, Germany [doppler@mind.de] (5)

A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [boattini@ias.rm.cnr.it] (6)

R. Di Luca, Via San Vittore 44, I-40136 Bologna, Italy, [diluca@astbo4.bo.astro.it] (6)

Observers R. H. McNaught, K. S. Russell

Measurers R. H. McNaught, A. Gnädig, A. Boattini, G. Forti, M. Tombelli, L. Tesi, R. Di Luca

1.2-m U.K. Schmidt, 1.0-m $f/8$ reflector + CCD

USNO-A2.0, GSC-ACT, PPM, GSC-1.2, TYC-1

{1} 1992 DH₁, 2, 1, 0; 1996 CN₉, 2, 1, 0; 1999 JV₆, 3, 1, 0; 2000 CE₅₉, 3, 1, 0; 2000 CO₁₀₁, 2, 1, 0; 2000 CH₁₁₃, 3, 1, 0; 2000 DV₁₁₀, 2, 1, 0; 2000 ET₇₀, 2, 1, 0; 2000 EU₁₀₆, 4, 2, 2; 2000 EV₁₀₆, 6, 2, 2; 2000 EY₁₀₆, 2, 1, 0; 2000 EJ₁₁₂, 2, 1, 0; 2000 FN₁₀, 2, 1, 0; 2000 GE₂, 2, 1, 0; 2000 GV₁₂₇, 2, 1, 0; [39, 15, 0*, 1995/05/24–2000/04/11]

{5} 2000 DN₈, 2, 1, 0; [2, 1, 0*, 1978/08/24]

{6} 1992 SZ₂, 2, 1, 0; 1996 AB₄, 2, 1, 0; 1997 ST₁₇, 2, 1, 0; 1997 XL₁₀, 2, 1, 0; 1999 RH₃₃, 2, 1, 0; 2000 AB₃, 2, 1, 0; [12, 6, 0*, 1979/06/24–1992/08/22]

417 Yanagida Astronomical Observatory

A. Tsuchikawa, Robu 1-1, Kanmachi, Fugeshi-gun, Ishikawa-ken, 928-03 Japan

Observer A. Tsuchikawa

0.60-m $f/8.0$ reflector + CCD

USNO-A2.0

2000 GG₇₆, 6, 3, 7; [6, 1, 0*, 2000/04/01–2000/04/08]

422 Loomberah

G. J. Garradd, P.O. Box 157, Tamworth, NSW 2340, Australia

[loomberah@ozemail.com.au]

0.45-m $f/5.4$ reflector + CCD, 0.25-m $f/4.1$ reflector + CCD

GSC-ACT

1998 SG₉₁, 2, 1, 0; 2000 CQ₁₁₀, 3, 1, 0; 2000 EW₁₀₆, 4, 1, 0; 2000 EX₁₀₆, 3, 1, 0; 2000 EY₁₀₆, 3, 1, 0; [15, 5, 0*, 1998/10/14–2000/03/15]

423 North Ryde

S. G. McAndrew, 2/32 Twin Rd, North Ryde, NSW 2113, Australia

[sgmcandrew@ozemail.com.au]

0.20-m $f/4$ hyperbolic astrograph + CCD

GSC

1995 BP₅, 5, 2, 11; 1998 XS₂₀, 2, 1, 0; 1999 VL₄₀, 10, 3, 15; [17, 3, 0*, 2000/03/31–2000/04/15]

428 Reedy Creek

J. Broughton, 18 Branch Crescent, Reedy Creek, QLD 4228, Australia

[reedycrk@one.net.au]

0.25-m $f/6.3$ Schmidt-Cassegrain + CCD

GSC

1999 CU₉, 4, 2, 3; 1999 EH₅, 3, 2, 3; 2000 CO₁₀₁, 2, 1, 0; 2000 EC₁₅, 2, 1, 0; 2000 ED₁₅, 3, 1, 0; 2000 EQ₄₉, 2, 1, 0; 2000 ET₇₀, 2, 1, 0; 2000 EN₇₅, 2, 1, 0; 2000 EM₉₃, 2, 1, 0; 2000 EL₉₇, 4, 2, 1; 2000 EO₉₇, 4, 2, 1; 2000 EL₁₀₄, 3, 3, 24; 2000 EP₁₀₄, 2, 1, 0; 2000 ET₁₀₆, 2, 1, 0; 2000 EZ₁₄₈, 2, 1, 0; 2000 FL₁₀, 8, 2, 1; 2000 FN₁₀, 12, 4, 8; 2000 FO₁₀, 4, 2, 1; 2000 FR₁₀ *, 6, 3, 8; 2000 FS₁₀ *, 6, 3, 8; 2000 GU₁ *, 6, 3, 7; 2000 GV₁ *, 6, 3, 5; 2000 GE₂, 3, 1, 0; 2000 GL₂ *, 6, 3, 5; 2000 GY₉₆, 4, 2, 2; 2000 GV₁₂₇, 4, 1, 0; 2000 GX₁₄₃ *, 4, 2, 2; 2000 GY₁₄₃ *, 4, 2, 2; 2000 GQ₁₄₆, 6, 2, 2; 2000 GR₁₄₆, 3, 1, 0; (12711), 2, 1, 0; (14016), 2, 1, 0; [125, 32, 7*, 2000/03/15–2000/04/13]

461 JATE Asteroid Survey, Piskésető Stn. (Konkoly)

L. Kiss, Pf. 596, H-6701 Szeged, Hungary [l.kiss@physx.u-szeged.hu]

Observers K. Sárneczky, K. Sziládi, L. Kiss

Measurers K. Sárneczky, K. Sziládi

0.60-m Schmidt + CCD

USNO-A2.0

2000 CQ₃₄, 3, 1, 0; [3, 1, 0*, 2000/03/13]

468 Astronomical Observatory, Campo Catino

F. Mallia, Via dei Siculi 37, I-04100 Latina, Italy [pa0115@panservice.it]

Observers A.Cassetti, G. Masi, F. Mallia, A. Cassetti, M. Di Sora

Measurers A.Cassetti, G. Masi, F. Mallia, A. Cassetti, F.Rossi, M. Di Sora

0.25-m $f/3$ reflector + CCD

GSC, USNO-A2.0

1999 XH₇₂, 2, 1, 0; [2, 1, 0*, 2000/01/04]

540 Linz

E. Meyer, Ferd.-Marklstrasse 1/62, A-4040 Linz, Austria

[erich.meyer@ooenet.at]

0.60-m $f/3.3$ reflector + CCD

USNO-A2.0, GSC-1.1, USNO-SA2.0

2000 ES₇₀, 5, 1, 0; 2000 EW₇₀, 5, 1, 0; 2000 EE₁₀₄, 4, 1, 0; 2000 GF₂, 4, 1, 0; 2000 GP₈₂, 5, 1, 0; 2000 GU₁₂₇, 4, 1, 0; [27, 6, 0*, 2000/03/22–2000/04/14]

552 San Vittore

E. Colombini, Via S. Vittore 44, I-40136 Bologna, Italy

[ermes.colombini@iol.it]

Observers G. Sassi, E. Colombini, R. Di Luca

0.45-m $f/3.3$ reflector + CCD

GSC

1989 BH, 3, 1, 0; 1995 UM₅, 2, 1, 0; 1997 JR, 2, 1, 0; 1998 SY₇₅, 2, 1, 0; 1998 YX₃, 6, 2, 20; 1998 YF₁₂, 2, 1, 0; 2000 CK₉₇, 2, 1, 0; 2000 EP₁₅₂, 3, 1, 0; 2000 FY₁₆, 3, 1, 0; 6793 P-L, 2, 1, 0; (14074), 3, 1, 0; [30, 11, 0*, 1997/05/30–2000/04/07]

557 Ondřejov

P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]

Observers P. Pravec, L. Šarounová, P. Kušnirák, L. Vašta, M. Wolf, D. Ondrich

0.65-m $f/3.6$ reflector + CCD

USNO-SA2.0

1991 DB, 15, 3, 6; 1992 AO₁, 4, 1, 0; 1993 FX₁₇, 2, 1, 0; 1996 LJ₁, 4, 2, 14; 1997 RM₉, 5, 2, 7; 1997 TQ₉, 1, 1, 0; 1997 UH, 4, 2, 4; 1997 UJ, 2, 1, 0; 1997 UU₇, 4, 2, 2; 1997 UN₉, 3, 1, 0; 1997 UW₁₄, 3, 1, 0; 1997 VC₅, 8, 2, 4; 1997 WP₂₈, 5, 2, 8; 1998 AN₈, 2, 1, 0; 1998 SR₆₂, 3, 1, 0; 1998 UC₁, 2, 1, 0; 1998 UC₁₅, 4, 2, 4; 1998 VB₁₃, 3, 1, 0; 1998 XJ₉, 4, 2, 4; 1998 YY₂, 8, 3, 12; 1999 NC₄₃, 13, 3, 17; 1999 WX, 2, 1, 0; 1999 XB₉₆, 2, 1, 0; 1999 XW₁₂₇, 2, 1, 0; 2000 AB₂₀₄, 2, 1, 0; 2000 CP₃₄, 5, 2, 6; 2000 CQ₃₄, 2, 1, 0; 2000 CF₁₀₆, 1, 1, 0; 2000 DM₂, 3, 1, 0; 2000 DR₅₄, 2, 1, 0; 2000 EF₄₅, 3, 1, 0; 2000 ET₉₄, 4, 1, 0; 2000 EQ₁₀₃, 2, 1, 0; 2000 EX₁₀₆, 11, 2, 2; 2000 EA₁₀₇, 10, 3, 2; 2000 EB₁₀₇, 6, 2, 2; 2000 EZ₁₄₈, 4, 2, 2; 2000 EF₁₆₂, 4, 1, 0; 2000 FU₅, 4, 1, 0; 2000 FK₁₀, 3, 1, 0; 2000 FL₁₀, 4, 1, 0; 2000 FX₁₃, 3, 1, 0; 2000 FA₃₀, 2, 1, 0; 2000 GH₁, 4, 2, 2; 2000 GA₂, 2, 1, 0; 2000 GF₂, 3, 1, 0; 2000 GG₂, 2, 1, 0; 2000 GQ₇, 2, 1, 0; 2000 GO₈₂, 7, 2, 4; 2000 GR₈₂, 7, 2, 4; 2000 GR₈₂ *, 9, 3, 4; 2000 GQ₁₂₇, 3, 1, 0; 2000 GR₁₂₇, 3, 1, 0; 2000 GU₁₂₇, 7, 2, 4; 2000 GV₁₂₇, 4, 1, 0; 2000 GW₁₂₇, 4, 1, 0; 2000 GX₁₂₇, 6, 2, 2; 2000 GX₁₃₂ *, 4, 2, 10; 2000 GY₁₃₂ *, 10, 3, 6; 2000 GR₁₄₆, 6, 2, 2; (3263), 3, 1, 0; (9704), 2, 1, 0; (13621), 3, 1, 0; [271, 63, 3*, 1997/10/11–2000/04/16]

561 Piskéztető Stn. (Konkoly)

J. Kelemen, Konkoly Observatory, P.O. Box 67, H-1525 Budapest, Hungary

[kelemen@ogyalla.konkoly.hu]

0.60-m Schmidt telescope + CCD

USNO-A2.0

1997 JN₁₆, 3, 1, 0; 1998 SK₈, 3, 1, 0; 1998 SJ₁₃₅, 3, 1, 0; 1998 TW₃₄, 3, 1, 0; 1998 VJ₅, 3, 1, 0; 2000 AU₈₁, 6, 2, 5; 2000 AM₉₀, 5, 2, 5; 2000 DZ₆₆, 3, 1, 0; 2000 DA₆₉, 3, 1, 0; (7924), 2, 1, 0; (9754), 2, 1, 0; (13907), 3, 1, 0; [39, 12, 0*, 1999/01/21–2000/03/07]

566 Haleakala-NEAT/GEODSS

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

[efh@ipl.jpl.nasa.gov]

Observers E. F. Helin, S. H. Pravdo, K. J. Lawrence, D. L. Rabinowitz, S. Groom,

C. Clark, R. Bamberg, S. Levin, J. Lorre, S. Shaklan, R. Byrd, A. Esquibel,

C. Cotton, D. Bascon

1-m $f/2.2$ Ritchey-Chrétien + CCD

1978 VH₇, 3, 1, 0; 1978 VS₈, 3, 1, 0; 1981 EQ₄₆, 3, 1, 0; 1981 JR₁, 3, 1, 0; 1982 QP, 3, 1, 0; 1988 RN₅, 3, 1, 0; 1988 RH₈, 3, 1, 0; 1989 EB₁, 3, 1, 0; 1989 SM₁, 3, 1, 0; 1989 TN₆, 6, 2, 471; 1990 ES₆, 3, 1, 0; 1990 OD₁, 3, 1, 0; 1991 GO₈, 3, 1, 0; 1991 PG₁₈, 3, 1, 0; 1991 RN₁₇, 3, 1, 0; 1992 EQ₁₃, 3, 1, 0; 1992 GO, 6, 2, 940; 1992 RE₂, 3, 1, 0; 1992 WE₁, 3, 1, 0; 1992 WK₂, 3, 1, 0; 1993 LF, 3, 1, 0; 1993 RA₃, 3, 1, 0; 1993 VX₁, 3, 1, 0; 1995 DN, 3, 1, 0; 1995 MA, 3, 1, 0; 1995 SE₃₃, 3, 1, 0; 1996 CM, 3, 1, 0; 1996 CN₉, 3, 1, 0; 1996 DB₁, 3, 1, 0; 1996 DU₃, 3, 1, 0; 1996 ES, 3, 1, 0; 1996 ET₁, 3, 1, 0; 1996 HO₁₅, 6, 1, 0; 1996 HA₂₃, 6, 1, 0; 1996 JR, 3, 1, 0; 1996 KS₅, 3, 1, 0; 1996 LR, 3, 1, 0; 1997 QC₁, 3, 1, 0; 1997 QJ₃, 3, 1, 0; 1997 QT₃, 3, 1, 0; 1997 SD₁₅, 3, 1, 0; 1997 UC, 3, 1, 0; 1997 VW₂, 3, 1, 0; 1997 VY₂, 3, 1, 0; 1997 WC₃₄, 3, 1, 0; 1997 YE₇, 3, 1, 0; 1998 DA₃, 5, 2, 1; 1998 DZ₃₂, 3, 1, 0; 1998 FP₁₆, 3, 1, 0; 1998 FV₂₈, 3, 1, 0; 1998 HD₁₂₄, 3, 1, 0; 1998 HW₁₅₀, 3, 1, 0; 1998 KK₉, 3, 1, 0; 1998 QH₁₄, 3, 1, 0; 1998 QN₁₇, 3,

1, 0; 1998 QC₂₅, 3, 1, 0; 1998 QP₄₅, 3, 1, 0; 1998 SO₃₅, 3, 1, 0; 1998 SS₅₃, 3, 1, 0; 1998 SB₅₆, 3, 1, 0; 1998 SD₅₆, 3, 1, 0; 1998 ST₆₃, 3, 1, 0; 1998 SL₈₁, 3, 1, 0; 1998 SJ₁₁₈, 3, 1, 0; 1998 SR₁₃₄, 3, 1, 0; 1998 SP₁₄₄, 3, 1, 0; 1998 TP₂, 3, 1, 0; 1998 UX₁, 3, 1, 0; 1998 UO₃₄, 3, 1, 0; 1998 VC₅, 3, 1, 0; 1998 VP₅, 3, 1, 0; 1998 VH₉, 3, 1, 0; 1998 VH₂₁, 3, 1, 0; 1998 VS₃₅, 3, 1, 0; 1998 WA₈, 3, 1, 0; 1998 WZ₂₁, 3, 1, 0; 1998 WH₃₃, 3, 1, 0; 1998 XR₂, 3, 1, 0; 1998 XW₄, 3, 1, 0; 1998 XE₄₅, 3, 1, 0; 1998 XU₉₃, 6, 2, 37; 1998 XG₉₅, 3, 1, 0; 1998 YB, 3, 1, 0; 1998 YD₂, 3, 1, 0; 1998 YK₁₀, 3, 1, 0; 1998 YL₁₃, 3, 1, 0; 1999 AK₅, 3, 1, 0; 1999 AM₇, 3, 1, 0; 1999 AO₇, 6, 1, 0; 1999 AM₂₃, 3, 1, 0; 1999 AD₃₃, 3, 1, 0; 1999 BN₁₄, 3, 1, 0; 1999 CX₄, 3, 1, 0; 1999 CO₁₆, 3, 1, 0; 1999 CJ₁₈, 3, 1, 0; 1999 CQ₈₂, 3, 1, 0; 1999 CA₁₂₁, 3, 1, 0; 1999 GZ₁₆, 3, 1, 0; 1999 NW₃₇, 3, 1, 0; 1999 RU₄₃, 3, 1, 0; 1999 RM₇₃, 3, 1, 0; 1999 SL₆, 3, 1, 0; 1999 SS₈, 3, 1, 0; 1999 VB₇, 3, 1, 0; 1999 XE₁, 3, 1, 0; 1999 XV₆, 3, 1, 0; 1999 XH₁₂, 6, 2, 31; 1999 XM₁₄, 3, 1, 0; 1999 XP₃₈, 3, 1, 0; 1999 XC₈₆, 3, 1, 0; 1999 XC₁₀₇, 3, 1, 0; 1999 XD₂₁₁, 3, 1, 0; 2000 AM₂, 3, 1, 0; 2000 AM₄₀, 3, 1, 0; 2000 AT₅₈, 3, 1, 0; 2000 AT₈₅, 3, 1, 0; 2000 AO₁₀₂, 3, 1, 0; 2000 AY₁₃₇, 3, 1, 0; 2000 AX₁₃₉, 3, 1, 0; 2000 AH₁₄₄, 3, 1, 0; 2000 AC₁₆₂, 3, 1, 0; 2000 AG₁₆₉, 3, 1, 0; 2000 AT₂₃₆, 3, 1, 0; 2000 AO₂₃₇, 3, 1, 0; 2000 AG₂₄₆, 3, 1, 0; 2000 BF₂, 3, 1, 0; 2000 CB₃₉, 3, 1, 0; 2000 CA₄₅, 3, 1, 0; 2000 CY₆₁, 3, 1, 0; 2000 CE₆₂, 3, 1, 0; 2000 CM₆₂, 3, 1, 0; 2000 CW₉₁, 3, 1, 0; 2000 CF₉₃, 3, 1, 0; 2000 CY₉₄, 3, 1, 0; 2000 CG₉₅, 3, 1, 0; 2000 DR₄, 6, 2, 531; 2000 DX₁₇, 3, 1, 0; 2000 DA₂₇, 3, 1, 0; 2000 DS₂₉, 9, 1, 0; 2000 DV₆₂, 3, 1, 0; 2000 DA₆₉, 3, 1, 0; 2000 DT₇₄, 6, 2, 33; 2000 DA₉₅, 3, 1, 0; 2000 DO₉₆, 3, 1, 0; 2000 DU₉₇, 3, 1, 0; 2000 DX₁₀₈, 3, 1, 0; 2000 EY₁₆, 3, 1, 0; 2000 EE₂₀, 3, 1, 0; 2000 EF₂₁, 9, 2, 446; 2000 EC₂₆, 6, 2, 523; 2000 EQ₃₆, 3, 1, 0; 2000 ER₃₈, 3, 1, 0; 2000 EY₃₈, 3, 1, 0; 2000 EG₃₉, 3, 1, 0; 2000 EM₃₉, 3, 1, 0; 2000 EX₃₉, 6, 2, 35; 2000 EM₄₀, 6, 2, 27; 2000 EE₄₆, 3, 1, 0; 2000 ET₄₇, 3, 1, 0; 2000 EO₄₈, 3, 1, 0; 2000 EY₄₉, 3, 1, 0; 2000 DA₂₇, 3, 1, 0; 2000 DS₂₉, 9, 1, 0; 2000 EZ₇₅, 6, 2, 500; 2000 ER₈₇, 12, 3, 561; 2000 EJ₉₁, 3, 1, 0; 2000 EG₉₂, 3, 1, 0; 2000 EE₉₃, 3, 1, 0; 2000 EL₉₃, 3, 1, 0; 2000 EU₉₃, 3, 1, 0; 2000 EU₉₆, 3, 1, 0; 2000 EB₉₇, 3, 1, 0; 2000 EK₁₀₄, 3, 1, 0; 2000 EL₁₀₄, 3, 1, 0; 2000 EF₁₀₈, 3, 1, 0; 2000 EX₁₀₈, 3, 1, 0; 2000 EP₁₁₁, 3, 1, 0; 2000 EK₁₁₄, 3, 1, 0; 2000 EQ₁₃₀, 6, 2, 30; 2000 EL₁₃₆, 3, 1, 0; 2000 EW₁₄₈, 6, 2, 31; 2000 EA₁₅₄, 3, 1, 0; 2000 EX₁₆₃, 3, 1, 0; 2000 FT₆, 6, 2, 25; 2000 FV₁₅, 3, 1, 0; 2000 FU₁₇, 3, 1, 0; 2000 FD₂₀, 3, 1, 0; 2000 FC₂₈, 3, 1, 0; 2000 FJ₂₈, 3, 1, 0; 2000 FC₃₀, 12, 3, 55; 2000 FH₃₉, 3, 1, 0; 2000 GU₉₁, 3, 1, 0; 2772 P-L, 3, 1, 0; 4806 P-L, 3, 1, 0; 3106 T-1, 3, 1, 0; 3071 T-2, 3, 1, 0; 5184 T-3, 3, 1, 0; (13793), 3, 1, 0; (13822), 3, 1, 0; (13858), 3, 1, 0; (13868), 6, 2, 891; (13940), 3, 1, 0; (14171), 3, 1, 0; (14176), 3, 1, 0; (14186), 3, 1, 0; (14239), 3, 1, 0; (14243), 3, 1, 0; [713, 208, 0*, 1995/12/20–1999/02/19]

568 Mauna Kea

D. Jewitt, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822,

U.S.A. [jewitt@galileo.ifa.hawaii.edu] (1)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822,

U.S.A. [tholen@hale.ifa.hawaii.edu] (2)

B. Gladman, Observatoire de Nice, Department Cassini, BP 229, F-06304 Nice

Cedex 4, France [gladman@obs-nice.fr] (6)

Observers C. A. Trujillo, D. C. Jewitt, J. X. Luu, S. S. Sheppard, D. J. Tholen,

R. J. Whiteley, J. Kavelaars, A. Morbidelli, H. Ebeling, A. Pickles,

Y. Fernandez, C. J. Pritchett

Measurers C. A. Trujillo, D. J. Tholen, R. J. Whiteley, B. Gladman, H. Scholl

2.24-m reflector + CCD, 3.6-m Canada-France-Hawaii Telescope

USNO-A2.0

{1} 1994 GV₉, 8, 2, 3; 1998 HK₁₅₁, 4, 1, 0; 1999 CY₁₁₈, 2, 1, 0; 1999 CM₁₁₉, 5, 3, 2; 1999 CW₁₃₁, 4, 2, 1; 1999 CP₁₅₃, 6, 4, 3; 1999 CS₁₅₃, 5, 4, 3; 1999 CU₁₅₃, 2, 2, 1; 1999 CG₁₅₄, 4, 2, 2; 1999 CH₁₅₄, 4, 3, 2; 1999 GS₄₆, 6, 2, 2; 1999 HT₁₁, 4, 2, 2; 1999 HU₁₁, 4, 2, 2; 1999 HV₁₁, 4, 2, 7; 1999 HW₁₁, 4, 2, 2; 1999 HB₁₂, 4, 2, 5; 2000 FR₅₃ *, 4, 2, 2; 2000 FS₅₃ *, 6, 3, 6; 2000 FT₅₃ *, 4, 2, 4; 2000 GM₁₃₇ *, 10, 3, 11; 2000 GV₁₄₆ *, 5, 3, 3; 2000 GW₁₄₆ *, 6, 2, 1; 2000 GX₁₄₆ *, 7, 3, 2; 2000 GY₁₄₆ *, 6, 2, 2; 2000 GZ₁₄₆ *, 6, 3, 2; [124, 25, 9*, 2000/03/31–2000/04/13]

{2} 2000 AB₂₄₆, 2, 1, 0; 2000 EH₂₆, 2, 1, 0; 2000 EW₇₀, 1, 1, 0; 2000 ED₁₄₀ *, 10, 5, 29; 2000 GF₁₅, 2, 1, 0; 2000 GO₄₄, 2, 1, 0; 2000 GQ₁₂₇, 2, 1, 0; 2000 GT₁₂₇, 2, 1, 0; 2000 GU₁₂₇, 2, 1, 0; 2000 GP₁₄₆, 2, 1, 0; 2000 GS₁₄₆, 2, 1, 0; (10302), 2, 1, 0; [31, 12, 1*, 2000/03/08–2000/04/09]

{6} 1997 CV₂₉, 9, 1, 0; 1999 CZ₁₁₈, 6, 1, 0; 1999 HS₁₁, 3, 1, 0; 1999 HU₁₁, 3, 1, 0; 1999 HB₁₂, 3, 1, 0; 2000 CQ₁₀₅, 5, 2, 1; 2000 CR₁₀₅, 6, 2, 1; 2000 EC₉₈, 3, 1, 0; 2000 FA₈ *, 7, 3, 3; 2000 FB₈ *, 8, 3, 3; 2000 FC₈ *, 5, 2, 2; 2000 FD₈ *, 8, 3, 3; 2000 FE₈ *, 7, 3, 3; 2000 FF₈ *, 5, 2, 1; 2000 FG₈ *, 6, 2, 1; 2000 FH₈ *, 5, 2, 1; [89, 16, 8*, 2000/03/27–2000/03/30]

587 Sormano

P. Sicoli, Via Valli 9, I-23846 Garbagnate Monastero (Lecco), Italy

[sormano@tin.it]

Observers A. Testa, M. Cavagna, F. Manca, P. Sicoli, P. Chiavenna, G. Ventre
0.5-m reflector + CCD

2000 EE₁₀₄, 3, 1, 0; 2000 GA₂, 1, 1, 0; 2000 GF₂, 2, 1, 0; 2000 GO₈₂, 2, 1, 0; 2000 GP₈₂, 2, 1, 0; [10, 5, 0*, 2000/04/07]

589 Santa Lucia Stroncone

A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy

[vagnozzi@freenet.hut.fi]

Observers A. Vagnozzi, G. Bernabei, V. Risoldi, V. Scirri

0.50-m $f/2.8$ Ritchey-Chrétien + CCD

GSC

1998 UT₆, 2, 1, 0; [2, 1, 0*, 1997/09/01]

595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy

[ccaf@tmedia.it]

Observers E. Pettarin, G. Lombardi, A. Toso, M. Spolaor, A. Olivieri, L. Drigo

Measurers L. Drigo, G. Lombardi

0.4-m $f/4.5$ reflector + CCD

GSC, USNO-SA1.0

2000 AB₉₈, 3, 1, 0; 2000 EX₇, 3, 1, 0; 2000 EA₁₀₇, 9, 2, 4; 2000 EB₁₀₇, 4, 1, 0; [19, 4, 0*, 2000/03/17–2000/04/07]

596 Colleverde di Guidonia

V. S. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy

[v.casulli@priminet.it]

0.40-m $f/3.2$ reflector + CCD

GSC

1995 DO₂, 3, 1, 0; 2000 FG₁₀ *, 12, 4, 7; 2000 GX₃ *, 10, 3, 12; [25, 3, 2*, 2000/03/30–2000/04/13]

599 Campo Imperatore-CINEOS

A. Carusi, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome,

Italy [carusi@saturn.ias.fra.cnr.it]

Observers A. Boattini, A. Di Clemente

Measurers A. Boattini, G. Forti

0.60-m $f/3$ Schmidt + CCD

GSC

1979 ML₆, 2, 1, 0; 1993 FY₇₅, 2, 1, 0; 2000 EB₄₁, 4, 2, 1; [8, 3, 0*, 1996/05/22–1997/07/10]

608 Haleakala-NEAT/MSSS

P. Kervin, Air Force Maui Optical Station, 535 Lipoa Parkway, Suite 200, Kihei,

Maui, HI 96753, U.S.A. [paul@ulua.mhpcc.af.mil]

E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.

[efh@temblor.jpl.nasa.gov]

Observers E. F. Helin, S. Pravdo, K. Lawrence, P. Kervin, D. Talent, R. Maeda,
P. Tanner

1.2-m reflector + CCD

1969 TY₁, 3, 1, 0; 1973 SX₂, 3, 1, 0; 1976 YN₇, 3, 1, 0; 1977 XZ₂, 3, 1, 0; 1978 RX₁, 3, 1, 0; 1978 SD₈, 3, 1, 0; 1978 UV₇, 3, 1, 0; 1979 MM₁, 3, 1, 0; 1981 EK₁, 3, 1, 0; 1981 EB₈, 3, 1, 0; 1981 EJ₁₁, 3, 1, 0; 1981 EX₁₄, 3, 1, 0; 1981 EZ₂₁, 3, 1, 0; 1981 EY₂₂, 3, 1, 0; 1981 EJ₂₅, 3, 1, 0; 1981 EH₂₈, 3, 1, 0; 1981 EF₃₃, 3, 1, 0; 1981 UC₂₆, 3, 1, 0; 1982 SW₃, 3, 1, 0; 1982 VB₄, 3, 1, 0; 1984 SL, 3, 1, 0; 1985 RQ, 3, 1, 0; 1985 UO₃, 3, 1, 0; 1986 AB, 3, 1, 0; 1986 JK, 3, 1, 0; 1988 BY₃, 3, 1, 0; 1988 CU, 3, 1, 0; 1988 CY, 3, 1, 0; 1988 CU₁, 3, 1, 0; 1988 DA₅, 3, 1, 0; 1988 RZ₂, 3,

1, 0; 1988 TK, 3, 1, 0; 1988 VR₂, 3, 1, 0; 1988 XX₂, 3, 1, 0; 1989 EV₂, 3, 1, 0; 1989 GB, 6, 2, 1; 1989 GQ₁, 3, 1, 0; 1989 GN₃, 3, 1, 0; 1989 RX, 3, 1, 0; 1989 SD, 3, 1, 0; 1989 SO₁, 3, 1, 0; 1989 ST₁₀, 3, 1, 0; 1989 UM₄, 6, 2, 16; 1989 WH, 3, 1, 0; 1990 DA₂, 3, 1, 0; 1990 ES₆, 3, 1, 0; 1990 OH₄, 3, 1, 0; 1990 RE₂, 6, 2, 36; 1990 SM₁₄, 3, 1, 0; 1990 UJ₄, 3, 1, 0; 1990 VV₁, 3, 1, 0; 1990 VS₄, 3, 1, 0; 1990 WZ₁, 3, 1, 0; 1990 WR₂, 3, 1, 0; 1991 AE₂, 3, 1, 0; 1991 GA₁₀, 3, 1, 0; 1991 PO₁₂, 3, 1, 0; 1991 PP₁₃, 3, 1, 0; 1991 RQ₇, 3, 1, 0; 1991 RC₁₁, 3, 1, 0; 1991 RQ₁₄, 3, 1, 0; 1991 RX₁₇, 3, 1, 0; 1991 RX₂₁, 3, 1, 0; 1991 RK₂₃, 3, 1, 0; 1991 RJ₄₁, 3, 1, 0; 1991 SM₂, 3, 1, 0; 1991 TQ₁, 3, 1, 0; 1991 TJ₂, 3, 1, 0; 1991 UO₂, 3, 1, 0; 1991 VF₁, 3, 1, 0; 1991 VQ₁, 3, 1, 0; 1991 VG₃, 3, 1, 0; 1991 VA₄, 3, 1, 0; 1991 VJ₄, 3, 1, 0; 1991 VE₅, 3, 1, 0; 1991 VM₅, 3, 1, 0; 1991 VN₈, 2, 1, 0; 1991 XF, 3, 1, 0; 1992 AJ₁, 6, 2, 8; 1992 BW₃, 3, 1, 0; 1992 CG₃, 3, 1, 0; 1992 DH₁, 3, 1, 0; 1992 DP₇, 3, 1, 0; 1992 DW₇, 3, 1, 0; 1992 EP₁₀, 3, 1, 0; 1992 ER₁₁, 3, 1, 0; 1992 ED₁₃, 3, 1, 0; 1992 ER₁₈, 3, 1, 0; 1992 GD₃, 3, 1, 0; 1992 JP₃, 3, 1, 0; 1992 SR₂₅, 3, 1, 0; 1992 VF, 3, 1, 0; 1992 WG, 3, 1, 0; 1992 WP₁, 3, 1, 0; 1992 WX₁, 3, 1, 0; 1992 WR₅, 3, 1, 0; 1993 BB, 3, 1, 0; 1993 DF₂, 3, 1, 0; 1993 FL₁, 3, 1, 0; 1993 FM₈, 3, 1, 0; 1993 FO₁₂, 3, 1, 0; 1993 FP₁₄, 6, 2, 5; 1993 FX₁₇, 3, 1, 0; 1993 FT₁₉, 3, 1, 0; 1993 FB₂₂, 3, 1, 0; 1993 FS₄₆, 3, 1, 0; 1993 FL₅₄, 3, 1, 0; 1993 GA₁, 3, 1, 0; 1993 HX, 3, 1, 0; 1993 HC₁, 3, 1, 0; 1993 HW₁, 6, 2, 5; 1993 NJ₁, 3, 1, 0; 1993 OJ₈, 3, 1, 0; 1993 OS₁₂, 3, 1, 0; 1993 OY₁₂, 3, 1, 0; 1993 QA₁, 3, 1, 0; 1993 QU₄, 3, 1, 0; 1993 QA₉, 3, 1, 0; 1993 TO₁₅, 3, 1, 0; 1993 TM₂₂, 3, 1, 0; 1993 TM₂₆, 3, 1, 0; 1993 UF, 3, 1, 0; 1993 UW₈, 3, 1, 0; 1993 XQ, 3, 1, 0; 1994 AN₁₅, 3, 1, 0; 1994 CN, 3, 1, 0; 1994 PQ₁₅, 3, 1, 0; 1994 PG₂₄, 3, 1, 0; 1994 SL₇, 3, 1, 0; 1994 TF₁₅, 3, 1, 0; 1994 US₂, 1, 1, 0; 1994 VL₇, 3, 1, 0; 1994 WL, 3, 1, 0; 1994 WN₃, 6, 2, 36; 1994 WR₃, 3, 1, 0; 1994 WJ₁₂, 3, 1, 0; 1994 XV₄, 3, 1, 0; 1994 YX, 3, 1, 0; 1994 YZ, 3, 1, 0; 1994 YC₂, 3, 1, 0; 1995 AJ₁, 3, 1, 0; 1995 AE₄, 3, 1, 0; 1995 BG₃, 3, 1, 0; 1995 HR₂, 3, 1, 0; 1995 UQ₁, 3, 1, 0; 1995 WU₇, 3, 1, 0; 1995 YX₁, 3, 1, 0; 1996 AW₄, 3, 1, 0; 1996 BP₁, 3, 1, 0; 1996 BA₂, 3, 1, 0; 1996 BH₂, 3, 1, 0; 1996 BL₃, 3, 1, 0; 1996 CM, 2, 1, 0; 1996 DL, 3, 1, 0; 1996 DU, 3, 1, 0; 1996 DK₂, 3, 1, 0; 1996 DQ₂, 3, 1, 0; 1996 EJ₁, 3, 1, 0; 1996 EP₁, 3, 1, 0; 1996 ES₂, 3, 1, 0; 1996 FM₂, 3, 1, 0; 1996 GL₃, 3, 1, 0; 1996 GA₁₈, 3, 1, 0; 1996 GE₂₀, 3, 1, 0; 1996 HP, 3, 1, 0; 1996 HY₁, 3, 1, 0; 1996 HM₂, 3, 1, 0; 1996 HM₁₁, 3, 1, 0; 1996 HJ₁₅, 3, 1, 0; 1996 JO₉, 3, 1, 0; 1996 LJ₁, 3, 1, 0; 1996 SJ₃, 3, 1, 0; 1996 TR₁₄, 3, 1, 0; 1996 TT₃₈, 3, 1, 0; 1997 FD₄, 3, 1, 0; 1997 GH₂₈, 3, 1, 0; 1997 GC₃₃, 3, 1, 0; 1997 GR₃₅, 3, 1, 0; 1997 HF₇, 3, 1, 0; 1997 HJ₈, 3, 1, 0; 1997 JU₇, 3, 1, 0; 1997 JD₁₂, 3, 1, 0; 1997 KS, 3, 1, 0; 1997 LB₄, 3, 1, 0; 1997 LT₅, 3, 1, 0; 1997 PR, 3, 1, 0; 1997 PF₄, 3, 1, 0; 1997 PN₅, 3, 1, 0; 1997 QG, 3, 1, 0; 1997 RF, 6, 2, 32; 1997 RO, 3, 1, 0; 1997 RC₃, 3, 1, 0; 1997 RL₃, 3, 1, 0; 1997 RM₉, 3, 1, 0; 1997 SA₂, 3, 1, 0; 1997 SL₂, 3, 1, 0; 1997 SA₃, 3, 1, 0; 1997 SM₃, 3, 1, 0; 1997 SF₁₆, 3, 1, 0; 1997 SG₂₁, 3, 1, 0; 1997 SD₂₅, 3, 1, 0; 1997 SN₂₅, 3, 1, 0; 1997 TK₁, 3, 1, 0; 1997 TM₁₈, 3, 1, 0; 1997 QC₅₁, 6, 2, 32; 1998 QK₅₁, 3, 1, 0; 1997 VQ, 3, 1, 0; 1997 VM₂, 3, 1, 0; 1997 VR₇, 3, 1, 0; 1997 WK₂, 3, 1, 0; 1997 WZ₇, 3, 1, 0; 1997 WQ₁₁, 3, 1, 0; 1997 WB₃₇, 3, 1, 0; 1997 WP₄₇, 3, 1, 0; 1997 YQ₁₉, 3, 1, 0; 1998 OH₁₀, 3, 1, 0; 1998 OQ₁₀, 3, 1, 0; 1998 OZ₁₁, 3, 1, 0; 1998 OK₁₃, 3, 1, 0; 1998 PX, 3, 1, 0; 1998 QC, 3, 1, 0; 1998 QP₆, 3, 1, 0; 1998 QE₁₇, 3, 1, 0; 1998 QW₂₂, 3, 1, 0; 1998 QT₃₁, 3, 1, 0; 1998 QS₃₇, 3, 1, 0; 1998 QP₃₈, 3, 1, 0; 1998 QX₃₉, 3, 1, 0; 1998 QF₄₄, 3, 1, 0; 1998 QC₅₁, 6, 2, 32; 1998 QK₅₁, 3, 1, 0; 1998 QX₅₄, 3, 1, 0; 1998 QZ₅₄, 3, 1, 0; 1998 QD₅₅, 3, 1, 0; 1998 QR₅₈, 3, 1, 0; 1998 QG₆₃, 3, 1, 0; 1998 QT₇₆, 3, 1, 0; 1998 QY₇₇, 3, 1, 0; 1998 QP₇₉, 3, 1, 0; 1998 QM₉₂, 3, 1, 0; 1998 QU₉₂, 3, 1, 0; 1998 QP₉₃, 3, 1, 0; 1998 QR₉₃, 3, 1, 0; 1998 QS₉₈, 3, 1, 0; 1998 QF₉₉, 3, 1, 0; 1998 QF₁₀₀, 3, 1, 0; 1998 QN₁₀₂, 3, 1, 0; 1998 QD₁₀₄, 3, 1, 0; 1998 QP₁₀₅, 3, 1, 0; 1998 QX₁₀₆, 3, 1, 0; 1998 RM₃, 6, 2, 38; 1998 RT₄, 3, 1, 0; 1998 RN₂₂, 3, 1, 0; 1998 RQ₃₄, 6, 2, 30; 1998 RJ₄₀, 3, 1, 0; 1998 RT₅₃, 3, 1, 0; 1998 RZ₅₅, 3, 1, 0; 1998 RN₅₆, 6, 2, 36; 1998 RZ₅₇, 3, 1, 0; 1998 RL₆₂, 3, 1, 0; 1998 RT₆₃, 3, 1, 0; 1998 RS₆₈, 3, 1, 0; 1998 RN₇₀, 3, 1, 0; 1998 RK₇₁, 3, 1, 0; 1998 RY₇₂, 3, 1, 0; 1998 RB₇₄, 3, 1, 0; 1998 RS₇₄, 3, 1, 0; 1998 RG₇₅, 3, 1, 0; 1998 RT₇₈, 3, 1, 0; 1998 RX₇₉, 3, 1, 0; 1998 ST₇, 3, 1, 0; 1998 SX₁₂, 3, 1, 0; 1998 SN₁₃, 3, 1, 0; 1998 SR₂₁, 3, 1, 0; 1998 SA₂₂, 3, 1, 0; 1998 SD₂₄, 3, 1, 0; 1998 SU₂₄, 3, 1, 0; 1998 SW₂₄, 3, 1, 0; 1998 SQ₂₇, 3, 1, 0; 1998 SM₃₄, 3, 1, 0; 1998 SP₃₇, 3, 1, 0; 1998 SR₃₇, 3, 1, 0; 1998 SU₃₇, 3, 1, 0; 1998 SM₄₁, 3, 1, 0; 1998 SD₄₃, 3, 1, 0; 1998 SB₄₉, 3, 1, 0; 1998 SN₅₀, 3, 1, 0; 1998 SO₅₀, 3, 1, 0; 1998 SZ₅₃, 3, 1, 0; 1998 SW₅₅, 3, 1, 0; 1998 SL₅₇, 3, 1, 0; 1998 SJ₅₈, 3, 1, 0; 1998 SR₅₈, 3, 1, 0; 1998 ST₆₃, 3, 1, 0; 1998 SJ₆₄, 3, 1, 0; 1998 SL₆₄, 3, 1, 0; 1998 SD₆₇, 3, 1, 0; 1998 SE₆₇, 3, 1, 0; 1998 SN₆₇, 3, 1, 0; 1998 SS₆₇, 3, 1, 0; 1998 SQ₇₀, 3, 1, 0; 1998 SA₇₁, 3, 1, 0; 1998 SY₇₂, 9, 3, 37; 1998 SG₇₄, 3, 1, 0; 1998 SR₇₄, 3, 1, 0; 1998 SW₇₄, 3, 1, 0; 1998 SR₁₀₇, 3, 1, 0; 1998 SM₁₁₆, 3, 1, 0; 1998 SV₁₁₇, 3, 1, 0; 1998 ST₁₁₈, 3, 1, 0; 1998 SF₁₂₁, 3, 1, 0; 1998 SY₁₂₂, 3, 1, 0; 1998 SK₁₂₄, 3, 1, 0; 1998 SX₁₂₇, 3, 1, 0; 1998 SB₁₂₉, 3, 1, 0; 1998 SW₁₂₉, 3, 1, 0; 1998 SX₁₃₂, 3, 1, 0; 1998 SM₁₃₅, 3, 1, 0; 1998 SM₁₃₇, 3, 1, 0; 1998 SW₁₃₈, 3, 1, 0; 1998 SD₁₄₄, 6, 2, 32; 1998 SE₁₄₄, 3, 1, 0; 1998 SW₁₄₅, 3, 1, 0; 1998 ST₁₄₆, 3, 1, 0; 1998 SV₁₄₇, 3, 1, 0; 1998 SD₁₅₉, 3, 1, 0; 1998 TW₁, 3, 1, 0; 1998 TN₂, 3, 1, 0; 1998 TR₅, 3, 1, 0; 1998 TN₁₀, 3, 1, 0; 1998 TX₁₂, 3, 1, 0; 1998 TH₁₆, 3, 1, 0; 1998 TK₁₆, 3, 1, 0; 1998 TT₃₀, 3, 1, 0; 1998 TO₃₁, 3, 1, 0; 1998 TG₃₂, 3, 1, 0; 1998 TY₃₂, 3, 1, 0; 1998 TN₃₃, 3, 1, 0; 1998 TE₃₄, 3, 1, 0; 1998 TR₃₄, 3, 1, 0; 1998 UC₃, 3, 1, 0; 1998 UA₄, 3, 1, 0; 1998 UU₆, 3, 1, 0; 1998 UK₇, 3, 1, 0; 1998 UX₁₉, 3, 1, 0; 1998 UP₂₁, 3, 1, 0; 1998 UC₂₃, 3, 1, 0; 1998 UL₂₃, 3, 1, 0; 1998 UR₂₃, 3, 1, 0; 1998 UA₂₇, 3, 1, 0; 1998 UP₃₉, 3, 1, 0; 1998 VA₃, 3, 1, 0; 1998 VU₅, 3, 1, 0; 1998 VX₅, 3, 1, 0; 1998 VT₆, 6, 2, 1; 1998 VN₁₁, 3, 1, 0; 1998 VD₁₄, 3, 1, 0; 1998 VB₂₀, 3, 1, 0; 1998 VC₂₅, 3, 1, 0; 1998 VQ₂₅, 3, 1, 0; 1998 VZ₃₀, 3, 1, 0; 1998 VQ₃₁, 3, 1, 0; 1998 VE₃₃, 3, 1, 0; 1998 VH₃₃, 3, 1, 0; 1998 VV₃₄, 3, 1, 0; 1998 VE₃₇, 3, 1, 0; 1998 VO₃₈, 3, 1, 0; 1998 VQ₃₈, 3, 1, 0; 1998 VD₄₄, 3, 1, 0; 1998 WU₁, 3, 1, 0;

2000 APR. 18

M.P.C. 39721

1998 WG₃, 3, 1, 0; 1998 WQ₃, 3, 1, 0; 1998 WH₄, 3, 1, 0; 1998 WM₅, 3, 1, 0; 1998 WO₅, 3, 1, 0; 1998 WD₈, 3, 1, 0; 1998 WK₉, 3, 1, 0; 1998 WS₉, 6, 2, 4; 1998 WM₁₀, 3, 1, 0; 1998 WV₁₀, 3, 1, 0; 1998 WF₁₁, 3, 1, 0; 1998 WD₁₂, 3, 1, 0; 1998 WO₁₆, 3, 1, 0; 1998 WZ₁₇, 3, 1, 0; 1998 WJ₁₈, 3, 1, 0; 1998 WK₁₈, 3, 1, 0; 1998 WA₂₀, 6, 2, 6; 1998 WL₂₃, 3, 1, 0; 1998 WY₃₀, 3, 1, 0; 1998 WZ₃₀, 3, 1, 0; 1998 XH₁, 3, 1, 0; 1998 XW₃, 3, 1, 0; 1998 XA₄, 3, 1, 0; 1998 XB₅, 3, 1, 0; 1998 XE₁₇, 3, 1, 0; 1998 XE₁₈, 3, 1, 0; 1998 XP₂₇, 3, 1, 0; 1998 XG₄₈, 6, 2, 4; 1998 XL₅₀, 3, 1, 0; 1998 XB₅₁, 3, 1, 0; 1998 XT₆₂, 3, 1, 0; 1998 XC₉₄, 3, 1, 0; 1998 YD₃, 3, 1, 0; 1998 YO₃, 3, 1, 0; 1998 YD₄, 3, 1, 0; 1998 YS₅, 3, 1, 0; 1998 YU₆, 3, 1, 0; 1998 YZ₆, 3, 1, 0; 1998 YB₇, 3, 1, 0; 1998 YL₈, 3, 1, 0; 1999 AA, 3, 1, 0; 1999 AM₆, 6, 2, 36; 1999 AC₁₀, 3, 1, 0; 1999 AL₂₄, 3, 1, 0; 1999 BO₁, 3, 1, 0; 1999 BC₃, 3, 1, 0; 1999 BP₉, 3, 1, 0; 1999 BW₂₅, 3, 1, 0; 1999 CF₄, 3, 1, 0; 1999 CG₁₇, 3, 1, 0; 1999 CU₁₇, 3, 1, 0; 1999 CH₃₈, 3, 1, 0; 1999 CX₅₉, 3, 1, 0; 1999 CZ₆₁, 3, 1, 0; 1999 CG₆₂, 3, 1, 0; 1999 CN₆₃, 3, 1, 0; 1999 GJ₇₈, 3, 1, 0; 1999 GJ₄, 3, 1, 0; 1999 XC₃₄, 3, 1, 0; 1999 XD₃₄, 3, 1, 0; 1999 XL₃₈, 3, 1, 0; 1999 XJ₉₃, 3, 1, 0; 1999 XU₉₄, 3, 1, 0; 1999 XS₁₃₆, 3, 1, 0; 1999 XV₁₆₄, 3, 1, 0; 1999 XX₁₆₄, 3, 1, 0; 1999 XB₁₆₅, 3, 1, 0; 1999 XK₁₆₅, 3, 1, 0; 1999 XH₁₇₅, 3, 1, 0; 1999 XD₂₂₁, 3, 1, 0; 1999 XG₂₂₁, 3, 1, 0; 1999 XJ₂₂₁, 3, 1, 0; 1999 YH₇, 3, 1, 0; 1999 YV₁₃, 3, 1, 0; 2000 AC₆₁, 3, 1, 0; 2000 AT₆₁, 3, 1, 0; 2000 AA₆₄, 3, 1, 0; 2000 AM₆₄, 3, 1, 0; 2000 AZ₆₄, 3, 1, 0; 2000 AA₆₅, 3, 1, 0; 2000 AB₆₅, 3, 1, 0; 2000 AD₆₅, 3, 1, 0; 2000 AS₆₅, 6, 2, 30; 2000 AT₆₇, 3, 1, 0; 2000 AB₆₈, 3, 1, 0; 2000 AD₆₈, 3, 1, 0; 2000 AQ₈₉, 3, 1, 0; 2000 AB₉₅, 3, 1, 0; 2000 AE₉₅, 3, 1, 0; 2000 AG₉₆, 3, 1, 0; 2000 AW₉₆, 3, 1, 0; 2000 AY₉₆, 3, 1, 0; 2000 AN₉₇, 3, 1, 0; 2000 AQ₉₇, 3, 1, 0; 2000 AV₉₇, 3, 1, 0; 2000 AW₉₇, 3, 1, 0; 2000 AY₉₇, 3, 1, 0; 2000 AZ₉₇, 3, 1, 0; 2000 AB₉₈, 6, 2, 9; 2000 AC₉₈, 3, 1, 0; 2000 AF₉₈, 3, 1, 0; 2000 AH₉₈, 6, 2, 35; 2000 AL₉₈, 3, 1, 0; 2000 AM₉₈, 6, 2, 32; 2000 AR₁₂₀, 3, 1, 0; 2000 AK₁₂₁, 3, 1, 0; 2000 AZ₁₂₆, 3, 1, 0; 2000 AZ₁₂₇, 3, 1, 0; 2000 AG₁₂₈, 3, 1, 0; 2000 AP₁₂₈, 3, 1, 0; 2000 AW₁₂₈, 3, 1, 0; 2000 AC₁₃₀, 3, 1, 0; 2000 AD₁₃₀, 3, 1, 0; 2000 AX₁₃₆, 3, 1, 0; 2000 AY₁₃₆, 3, 1, 0; 2000 AZ₁₃₆, 3, 1, 0; 2000 AF₁₃₇, 3, 1, 0; 2000 AG₁₃₇, 3, 1, 0; 2000 AJ₁₃₇, 3, 1, 0; 2000 AK₁₃₇, 3, 1, 0; 2000 AL₁₃₇, 3, 1, 0; 2000 AO₁₃₇, 3, 1, 0; 2000 AP₁₃₇, 6, 2, 20; 2000 AR₁₃₇, 3, 1, 0; 2000 AT₁₃₇, 3, 1, 0; 2000 AU₁₃₇, 6, 2, 4; 2000 AV₁₃₇, 3, 1, 0; 2000 AW₁₃₇, 3, 1, 0; 2000 AX₁₃₇, 3, 1, 0; 2000 AY₁₃₇, 3, 1, 0; 2000 AA₁₄₁, 3, 1, 0; 2000 AL₁₄₁, 3, 1, 0; 2000 AG₁₄₂, 3, 1, 0; 2000 AA₁₄₃, 3, 1, 0; 2000 AF₁₄₃, 3, 1, 0; 2000 AJ₁₄₃, 3, 1, 0; 2000 AL₁₄₃, 3, 1, 0; 2000 AS₁₄₃, 3, 1, 0; 2000 AC₁₄₄, 3, 1, 0; 2000 AT₁₄₄, 6, 2, 32; 2000 AU₁₄₄, 6, 2, 35; 2000 AW₁₄₄, 6, 2, 6; 2000 AR₁₄₅, 3, 1, 0; 2000 AC₁₅₃, 3, 1, 0; 2000 AP₁₆₄, 3, 1, 0; 2000 AB₁₆₈, 3, 1, 0; 2000 AM₁₈₅, 3, 1, 0; 2000 AZ₁₉₃, 3, 1, 0; 2000 AD₁₉₅, 3, 1, 0; 2000 AF₁₉₆, 3, 1, 0; 2000 AG₁₉₇, 3, 1, 0; 2000 AP₁₉₇, 3, 1, 0; 2000 AY₁₉₇, 3, 1, 0; 2000 AZ₁₉₇, 3, 1, 0; 2000 AF₁₉₈, 3, 1, 0; 2000 AM₁₉₈, 3, 1, 0; 2000 AN₁₉₈, 3, 1, 0; 2000 AO₁₉₈, 3, 1, 0; 2000 AT₁₉₈, 3, 1, 0; 2000 AA₂₀₂, 3, 1, 0; 2000 AU₂₀₂, 3, 1, 0; 2000 AV₂₀₂, 3, 1, 0; 2000 AW₂₀₂, 3, 1, 0; 2000 AB₂₀₃, 3, 1, 0; 2000 AJ₂₀₃, 3, 1, 0; 2000 AO₂₀₃, 3, 1, 0; 2000 AR₂₀₃, 3, 1, 0; 2000 AW₂₀₃, 3, 1, 0; 2000 AY₂₀₃, 6, 2, 36; 2000 AZ₂₀₃, 3, 1, 0; 2000 AG₂₁₂, 3, 1, 0; 2000 AF₂₂₇, 3, 1, 0; 2000 AD₂₃₃, 3, 1, 0; 2000 AO₂₃₃, 3, 1, 0; 2000 AP₂₃₃, 3, 1, 0; 2000 AO₂₃₆, 3, 1, 0; 2000 AA₂₃₇, 3, 1, 0; 2000 AD₂₃₇, 3, 1, 0; 2000 AF₂₃₇, 3, 1, 0; 2000 AH₂₃₇, 3, 1, 0; 2000 AJ₂₃₇, 3, 1, 0; 2000 AO₂₃₇, 3, 1, 0; 2000 AQ₂₃₇, 6, 2, 5; 2000 AR₂₃₇, 3, 1, 0; 2000 AQ₂₃₈, 3, 1, 0; 2000 AX₂₃₉, 3, 1, 0; 2000 AC₂₄₀, 3, 1, 0; 2000 AC₂₄₂, 3, 1, 0; 2000 AF₂₄₂, 3, 1, 0; 2000 AR₂₄₂, 3, 1, 0; 2000 AB₂₄₃, 3, 1, 0; 2000 AC₂₄₃, 3, 1, 0; 2000 AH₂₄₃, 3, 1, 0; 2000 AX₂₄₃, 3, 1, 0; 2000 AG₂₄₆, 3, 1, 0; 2000 AK₂₄₆, 3, 1, 0; 2000 BC₃, 1, 0; 2000 BO₃, 1, 0; 2000 BD₁, 3, 1, 0; 2000 BF₂, 3, 1, 0; 2000 BD₃, 3, 1, 0; 2000 BQ₃, 3, 1, 0; 2000 BS₃, 3, 1, 0; 2000 BT₃, 3, 1, 0; 2000 BV₃, 3, 1, 0; 2000 BX₃, 6, 2, 30; 2000 BY₃, 3, 1, 0; 2000 BB₁₅, 3, 1, 0; 2000 BH₁₉, 3, 1, 0; 2000 BP₂₂, 3, 1, 0; 2000 BS₂₂, 3, 1, 0; 2000 BM₂₅, 3, 1, 0; 2000 BQ₂₆, 3, 1, 0; 2000 BW₂₆, 3, 1, 0; 2000 CW₃, 3, 1, 0; 2000 CY₃, 3, 1, 0; 2000 CY₁, 3, 1, 0; 2000 CC₂, 3, 1, 0; 2000 CE₂, 3, 1, 0; 2000 CJ₂, 3, 1, 0; 2000 CR₂, 3, 1, 0; 2000 CS₂, 3, 1, 0; 2000 CZ₂, 3, 1, 0; 2000 CT₂₁, 3, 1, 0; 2000 CF₂₇, 3, 1, 0; 2000 CC₂₈, 3, 1, 0; 2000 CU₂₈, 3, 1, 0; 2000 CX₂₈, 3, 1, 0; 2000 CV₂₉, 3, 1, 0; 2000 CD₃₃, 3, 1, 0; 2000 CE₃₃, 3, 1, 0; 2000 CV₃₃, 3, 1, 0; 2000 CW₃₃, 3, 1, 0; 2000 CX₃₃, 3, 1, 0; 2000 CN₃₅, 3, 1, 0; 2000 CH₃₆, 3, 1, 0; 2000 CV₃₆, 3, 1, 0; 2000 CW₃₆, 3, 1, 0; 2000 CX₃₇, 3, 1, 0; 2000 CF₃₇, 3, 1, 0; 2000 CJ₃₉, 3, 1, 0; 2000 CO₄₃, 3, 1, 0; 2000 CQ₄₃, 3, 1, 0; 2000 CU₄₄, 3, 1, 0; 2000 CV₄₄, 3, 1, 0; 2000 CY₄₄, 3, 1, 0; 2000 CA₄₅, 6, 2, 6; 2000 CN₄₅, 3, 1, 0; 2000 CT₄₇, 3, 1, 0; 2000 CD₄₈, 3, 1, 0; 2000 CE₄₈, 3, 1, 0; 2000 CH₄₈, 3, 1, 0; 2000 CJ₄₈, 3, 1, 0; 2000 CK₄₈, 3, 1, 0; 2000 CT₄₈, 3, 1, 0; 2000 CV₄₈, 3, 1, 0; 2000 CK₅₀, 3, 1, 0; 2000 CM₅₀, 3, 1, 0; 2000 CF₅₁, 3, 1, 0; 2000 CG₅₁, 3, 1, 0; 2000 CL₅₁, 3, 1, 0; 2000 CN₅₁, 3, 1, 0; 2000 CJ₅₂, 3, 1, 0; 2000 CL₅₂, 3, 1, 0; 2000 CN₅₂, 3, 1, 0; 2000 CF₅₂, 3, 1, 0; 2000 CS₅₂, 3, 1, 0; 2000 CC₅₃, 3, 1, 0; 2000 CK₅₃, 3, 1, 0; 2000 CQ₅₃, 3, 1, 0; 2000 CR₅₃, 3, 1, 0; 2000 CS₅₃, 3, 1, 0; 2000 CT₅₃, 3, 1, 0; 2000 CD₅₆, 3, 1, 0; 2000 CP₅₆, 3, 1, 0; 2000 CC₅₈, 3, 1, 0; 2000 CF₅₈, 3, 1, 0; 2000 CG₅₈, 3, 1, 0; 2000 CM₅₈, 3, 1, 0; 2000 CN₅₈, 3, 1, 0; 2000 CO₅₈, 3, 1, 0; 2000 CP₅₈, 3, 1, 0; 2000 CQ₅₈, 3, 1, 0; 2000 CZ₆₀, 3, 1, 0; 2000 CB₆₁, 3, 1, 0; 2000 CD₆₁, 3, 1, 0; 2000 CM₆₁, 3, 1, 0; 2000 CE₆₂, 9, 3, 32; 2000 CF₆₂, 3, 1, 0; 2000 CG₆₂, 3, 1, 0; 2000 CK₆₂, 3, 1, 0; 2000 CO₆₂, 6, 2, 4; 2000 CP₆₂, 3, 1, 0; 2000 CB₆₃, 3, 1, 0; 2000 CD₆₃, 3, 1, 0; 2000 CN₆₃, 3, 1, 0; 2000 CW₆₃, 3, 1, 0; 2000 CX₆₃, 3, 1, 0; 2000 CL₆₅, 3, 1, 0; 2000 CW₆₅, 3, 1, 0; 2000 CH₆₇, 3, 1, 0; 2000 CF₇₀, 3, 1, 0; 2000 CA₇₁, 3, 1, 0; 2000 CD₇₁, 6, 2, 36; 2000 CL₇₁, 3, 1, 0; 2000 CM₇₁, 3, 1, 0; 2000 CJ₇₅, 3, 1, 0; 2000 CC₇₆, 6, 2, 36; 2000 CY₇₆, 3, 1, 0; 2000 CB₇₇, 3, 1, 0; 2000 CD₇₇, 3, 1, 0; 2000 CG₇₇, 3, 1, 0; 2000 CL₇₇, 3, 1, 0; 2000 CO₇₇, 3, 1, 0; 2000 CY₈₀, 3, 1, 0; 2000 CE₈₂, 6, 2, 40; 2000 CK₈₂, 3, 1, 0; 2000 CH₈₂, 3, 1, 0; 2000 CA₈₅, 3, 1, 0; 2000 CB₈₅, 3, 1, 0; 2000 CF₈₅, 3, 1, 0; 2000 CA₈₆, 3, 1, 0; 2000 CQ₈₆, 3, 1, 0; 2000 CT₈₆, 3, 1, 0; 2000 CA₈₇, 3, 1, 0; 2000 CB₈₇, 3, 1, 0; 2000 CD₈₇, 3, 1, 0; 2000 CK₈₇, 3,

1, 0; 2000 CQ₈₇, 3, 1, 0; 2000 CT₈₇, 3, 1, 0; 2000 CD₈₈, 3, 1, 0; 2000 CP₈₉, 3, 1, 0; 2000 CT₈₉, 3, 1, 0; 2000 CW₉₁, 3, 1, 0; 2000 CJ₉₂, 3, 1, 0; 2000 CL₉₂, 3, 1, 0; 2000 CN₉₂, 3, 1, 0; 2000 CO₉₂, 3, 1, 0; 2000 CQ₉₂, 3, 1, 0; 2000 CT₉₂, 6, 2, 36; 2000 CY₉₂, 3, 1, 0; 2000 CZ₉₂, 3, 1, 0; 2000 CB₉₃, 6, 2, 4; 2000 CD₉₃, 3, 1, 0; 2000 CE₉₃, 6, 2, 4; 2000 CF₉₃, 3, 1, 0; 2000 CG₉₃, 3, 1, 0; 2000 CH₉₃, 3, 1, 0; 2000 CN₉₃, 6, 2, 4; 2000 CO₉₃, 3, 1, 0; 2000 CS₉₃, 3, 1, 0; 2000 CC₉₄, 3, 1, 0; 2000 CD₉₄, 3, 1, 0; 2000 CL₉₄, 3, 1, 0; 2000 CM₉₄, 3, 1, 0; 2000 CR₉₄, 3, 1, 0; 2000 CS₉₄, 3, 1, 0; 2000 CY₉₄, 3, 1, 0; 2000 CC₉₅, 3, 1, 0; 2000 CG₉₅, 3, 1, 0; 2000 CH₉₅, 3, 1, 0; 2000 CR₉₇, 3, 1, 0; 2000 CY₁₀₁, 3, 1, 0; 2000 CQ₁₀₂, 3, 1, 0; 2000 CY₁₀₂, 3, 1, 0; 2000 CK₁₀₃, 3, 1, 0; 2000 CL₁₀₃, 3, 1, 0; 2000 CQ₁₀₃, 3, 1, 0; 2000 CR₁₀₃, 3, 1, 0; 2000 CS₁₀₃, 3, 1, 0; 2000 CB₁₀₄, 3, 1, 0; 2000 DQ, 3, 1, 0; 2000 DS, 6, 2, 15; 2000 DZ, 3, 1, 0; 2000 DH₁, 3, 1, 0; 2000 DY₁, 3, 1, 0; 2000 DB₂, 3, 1, 0; 2000 DF₂, 3, 1, 0; 2000 DG₂, 3, 1, 0; 2000 DJ₂, 3, 1, 0; 2000 DQ₂, 3, 1, 0; 2000 DB₃, 3, 1, 0; 2000 DD₃, 6, 2, 37; 2000 DE₃, 3, 1, 0; 2000 DF₃, 3, 1, 0; 2000 DG₃, 6, 2, 4; 2000 DL₃, 3, 1, 0; 2000 DN₃, 3, 1, 0; 2000 DQ₃, 3, 1, 0; 2000 DA₄, 3, 1, 0; 2000 DH₄, 3, 1, 0; 2000 DL₄, 3, 1, 0; 2000 DS₄, 3, 1, 0; 2000 DX₄, 3, 1, 0; 2000 DA₇, 3, 1, 0; 2000 DC₇, 3, 1, 0; 2000 DG₇, 3, 1, 0; 2000 DJ₇, 3, 1, 0; 2000 DR₈, 9, 3, 36; 2000 DV₉, 3, 1, 0; 2000 DW₁₄, 3, 1, 0; 2000 DM₁₅, 3, 1, 0; 2000 DF₁₅, 3, 1, 0; 2000 DR₁₅, 6, 2, 6; 2000 DS₁₅, 3, 1, 0; 2000 DD₁₆, 3, 1, 0; 2000 DJ₁₆, 3, 1, 0; 2000 DF₁₇, 6, 2, 2; 2000 DH₁₇, 3, 1, 0; 2000 DU₁₇, 3, 1, 0; 2000 DR₂₄, 3, 1, 0; 2000 DS₂₄, 3, 1, 0; 2000 DV₂₄, 3, 1, 0; 2000 DW₂₄, 3, 1, 0; 2000 DT₂₅, 3, 1, 0; 2000 DZ₂₅, 3, 1, 0; 2000 DC₃₀, 3, 1, 0; 2000 DQ₃₁, 3, 1, 0; 2000 DH₃₂, 3, 1, 0; 2000 DP₃₂, 3, 1, 0; 2000 DM₃₄, 3, 1, 0; 2000 DB₄₀, 3, 1, 0; 2000 DL₄₂, 3, 1, 0; 2000 DW₄₈, 3, 1, 0; 2000 DD₅₂, 3, 1, 0; 2000 DE₅₅, 3, 1, 0; 2000 DM₅₅, 3, 1, 0; 2000 DN₅₅, 3, 1, 0; 2000 DT₅₅, 3, 1, 0; 2000 DV₅₅, 3, 1, 0; 2000 DS₆₀, 6, 2, 15; 2000 DH₆₂, 3, 1, 0; 2000 DO₆₂, 3, 1, 0; 2000 DU₆₂, 3, 1, 0; 2000 DC₆₃, 3, 1, 0; 2000 DD₆₃, 3, 1, 0; 2000 DR₆₄, 3, 1, 0; 2000 DC₆₅, 3, 1, 0; 2000 DR₆₇, 3, 1, 0; 2000 DR₆₈, 3, 1, 0; 2000 DU₆₈, 3, 1, 0; 2000 DZ₆₈, 3, 1, 0; 2000 DF₆₉, 3, 1, 0; 2000 DL₆₉, 3, 1, 0; 2000 DR₆₉, 3, 1, 0; 2000 DU₆₉, 3, 1, 0; 2000 DM₇₀, 3, 1, 0; 2000 DW₇₀, 3, 1, 0; 2000 DY₇₀, 3, 1, 0; 2000 DD₇₁, 3, 1, 0; 2000 DQ₇₁, 3, 1, 0; 2000 DS₇₁, 3, 1, 0; 2000 DX₇₁, 3, 1, 0; 2000 DL₇₂, 3, 1, 0; 2000 DT₇₂, 3, 1, 0; 2000 DY₇₂, 3, 1, 0; 2000 DN₇₃, 3, 1, 0; 2000 DX₇₃, 3, 1, 0; 2000 DT₇₄, 3, 1, 0; 2000 DV₇₄, 3, 1, 0; 2000 DX₇₄, 3, 1, 0; 2000 DY₇₄, 3, 1, 0; 2000 DJ₇₅, 3, 1, 0; 2000 DG₇₆, 3, 1, 0; 2000 DL₇₆, 3, 1, 0; 2000 DF₇₇, 3, 1, 0; 2000 DG₇₇, 3, 1, 0; 2000 DA₇₈, 3, 1, 0; 2000 DD₇₈, 6, 2, 32; 2000 DL₇₈, 3, 1, 0; 2000 DA₇₉, 6, 2, 37; 2000 DB₇₉, 3, 1, 0; 2000 DM₇₉, 3, 1, 0; 2000 DN₇₉, 3, 1, 0; 2000 DP₇₉, 3, 1, 0; 2000 DV₇₉, 3, 1, 0; 2000 DB₈₃, 3, 1, 0; 2000 DF₈₃, 3, 1, 0; 2000 DN₈₄, 3, 1, 0; 2000 DH₈₅, 3, 1, 0; 2000 DJ₈₅, 3, 1, 0; 2000 DL₈₅, 3, 1, 0; 2000 DN₈₅, 3, 1, 0; 2000 DR₈₅, 3, 1, 0; 2000 DX₈₅, 3, 1, 0; 2000 DB₈₈, 3, 1, 0; 2000 DE₈₈, 3, 1, 0; 2000 DF₈₈, 3, 1, 0; 2000 DH₈₈, 3, 1, 0; 2000 DX₈₈, 3, 1, 0; 2000 DM₉₂, 6, 2, 32; 2000 DN₉₂, 3, 1, 0; 2000 DB₉₄, 3, 1, 0; 2000 DG₉₄, 3, 1, 0; 2000 DH₉₄, 3, 1, 0; 2000 DW₉₄, 3, 1, 0; 2000 DA₉₅, 3, 1, 0; 2000 DD₉₆, 3, 1, 0; 2000 DR₉₇, 3, 1, 0; 2000 DC₉₉, 3, 1, 0; 2000 DW₉₉, 3, 1, 0; 2000 DH₁₀₃, 3, 1, 0; 2000 DK₁₀₄, 3, 1, 0; 2000 DH₁₀₅, 3, 1, 0; 2000 DL₁₀₅, 3, 1, 0; 2000 DE₁₀₆, 3, 1, 0; 2000 DC₁₀₇, 3, 1, 0; 2000 DC₁₀₉, 3, 1, 0; 2000 DK₁₁₀, 3, 1, 0; 2000 DL₁₁₀, 3, 1, 0; 2000 EC, 3, 1, 0; 2000 EY, 3, 1, 0; 2000 EP₂, 3, 1, 0; 2000 EK₃, 3, 1, 0; 2000 EV₃, 3, 1, 0; 2000 EC₄, 3, 1, 0; 2000 EV₅, 3, 1, 0; 2000 ED₆, 3, 1, 0; 2000 EW₆, 3, 1, 0; 2000 EU₈, 3, 1, 0; 2000 EX₈, 3, 1, 0; 2000 EN₁₀, 3, 1, 0; 2000 ES₁₀, 3, 1, 0; 2000 ET₁₁, 3, 1, 0; 2000 EX₁₁, 3, 1, 0; 2000 EY₁₁, 3, 1, 0; 2000 EZ₁₁, 3, 1, 0; 2000 EC₁₂, 3, 1, 0; 2000 EQ₁₂, 3, 1, 0; 2000 ET₁₂, 3, 1, 0; 2

[illegible]

2000 EW₁₄₈ *, 3, 1, 0; 2000 EB₁₄₉ *, 3, 1, 0; 2000 EE₁₄₉ *, 3, 1, 0; 2000 EF₁₄₉ *, 3, 10; 2000 EO₁₄₉ *, 3, 1, 0; 2000 ES₁₄₉ *, 3, 1, 0; 2000 ET₁₄₉ *, 3, 1, 0; 2000 EU₁₄₉ *, 3, 1, 0; 2000 EV₁₄₉ *, 3, 1, 0;
2000 EW₁₄₉ *, 3, 1, 0; 2000 EX₁₄₉ *, 3, 1, 0; 2000 EY₁₄₉ *, 3, 1, 0; 2000 EA₁₅₀ *, 3, 1, 0; 2000 EC₁₅₀ *,
3, 1, 0; 2000 ED₁₅₀ *, 3, 1, 0; 2000 EE₁₅₀ *, 3, 1, 0; 2000 EF₁₅₀ *, 3, 1, 0; 2000 EG₁₅₀ *,
3, 1, 0; 2000 EH₁₅₀ *, 3, 1, 0; 2000 EI₁₅₀ *, 3, 1, 0; 2000 EK₁₅₀ *, 3, 1, 0; 2000 EL₁₅₀ *, 3,
1, 0; 2000 EM₁₅₀ *, 3, 1, 0; 2000 EN₁₅₀ *, 3, 1, 0; 2000 EO₁₅₀ *, 3, 1, 0; 2000 EP₁₅₀ *, 3,
1, 0; 2000 EQ₁₅₀ *, 3, 1, 0; 2000 ER₁₅₀ *, 3, 1, 0; 2000 ES₁₅₀ *, 3, 1, 0; 2000 ET₁₅₀ *, 3, 1,
0; 2000 EU₁₅₀ *, 3, 1, 0; 2000 EV₁₅₀ *, 3, 1, 0; 2000 EW₁₅₀ *, 3, 1, 0; 2000 EX₁₅₀ *, 3, 1,
0; 2000 EY₁₅₀ *, 3, 1, 0; 2000 EZ₁₅₀ *, 3, 1, 0; 2000 EA₁₅₁ *, 3, 1, 0; 2000 EB₁₅₁ *, 3, 1,
0; 2000 EC₁₅₁ *, 6, 2, 32; 2000 ED₁₅₁ *, 3, 1, 0; 2000 EE₁₅₁ *, 3, 1, 0; 2000 EF₁₅₁ *, 3, 1,
0; 2000 EG₁₅₁ *, 6, 2, 35; 2000 EH₁₅₁ *, 3, 1, 0; 2000 EI₁₅₁ *, 3, 1, 0; 2000 EJ₁₅₁ *, 3, 1, 0; 2000 EK₁₅₁ *, 3, 1, 0;
2000 EN₁₅₁ *, 3, 1, 0; 2000 EO₁₅₁ *, 3, 1, 0; 2000 EQ₁₅₁ *, 3, 1, 0; 2000 ER₁₅₁ *, 3, 1, 0; 2000 ES₁₅₁ *,
3, 1, 0; 2000 ET₁₅₁ *, 3, 1, 0; 2000 EU₁₅₁ *, 3, 1, 0; 2000 EV₁₅₁ *, 3, 1, 0; 2000 EW₁₅₁ *, 3,
1, 0; 2000 EX₁₅₁ *, 3, 1, 0; 2000 EY₁₅₁ *, 3, 1, 0; 2000 EZ₁₅₁ *, 3, 1, 0; 2000 EA₁₅₂ *, 3,
1, 0; 2000 EB₁₅₂ *, 3, 1, 0; 2000 EC₁₅₂ *, 3, 1, 0; 2000 ED₁₅₂ *, 3, 1, 0; 2000 EE₁₅₂ *, 3,
1, 0; 2000 EF₁₅₂ *, 3, 1, 0; 2000 EG₁₅₂ *, 3, 1, 0; 2000 EH₁₅₂ *, 3, 1, 0; 2000 EI₁₅₂ *, 3, 1,
0; 2000 EK₁₅₂ *, 3, 1, 0; 2000 EL₁₅₂ *, 3, 1, 0; 2000 EM₁₅₂ *, 3, 1, 0; 2000 EN₁₅₂ *, 3, 1,
0; 2000 EO₁₅₂ *, 3, 1, 0; 2000 EP₁₅₂ *, 3, 1, 0; 2000 EQ₁₅₂ *, 3, 1, 0; 2000 ER₁₅₂ *, 3, 1,
0; 2000 ES₁₅₂ *, 3, 1, 0; 2000 ET₁₅₂ *, 3, 1, 0; 2000 EU₁₅₂ *, 3, 1, 0; 2000 EV₁₅₂ *, 3, 1,
0; 2000 EW₁₅₂ *, 3, 1, 0; 2000 EX₁₅₂ *, 3, 1, 0; 2000 EY₁₅₂ *, 3, 1, 0; 2000 EZ₁₅₂ *, 3, 1,
0; 2000 EA₁₅₃ *, 3, 1, 0; 2000 EB₁₅₃ *, 3, 1, 0; 2000 EC₁₅₃ *, 3, 1, 0; 2000 ED₁₅₃ *, 3, 1,
0; 2000 EE₁₅₃ *, 3, 1, 0; 2000 EF₁₅₃ *, 3, 1, 0; 2000 EG₁₅₃ *, 3, 1, 0; 2000 EH₁₅₃ *, 3, 1,
0; 2000 EI₁₅₃ *, 3, 1, 0; 2000 EK₁₅₃ *, 3, 1, 0; 2000 EL₁₅₃ *, 3, 1, 0; 2000 EM₁₅₃ *, 3, 1,
0; 2000 EN₁₅₃ *, 3, 1, 0; 2000 EO₁₅₃ *, 3, 1, 0; 2000 EP₁₅₃ *, 3, 1, 0; 2000 EQ₁₅₃ *, 3, 1,
0; 2000 ER₁₅₃ *, 3, 1, 0; 2000 ES₁₅₃ *, 3, 1, 0; 2000 ET₁₅₃ *, 3, 1, 0; 2000 EU₁₅₃ *, 3, 1,
0; 2000 EV₁₅₃ *, 3, 1, 0; 2000 EW₁₅₃ *, 3, 1, 0; 2000 EX₁₅₃ *, 6, 2, 32; 2000 EY₁₅₃ *, 6, 2,
36; 2000 EZ₁₅₃ *, 3, 1, 0; 2000 EA₁₅₄ *, 6, 2, 36; 2000 EB₁₅₄ *, 3, 1, 0; 2000 EC₁₅₄ *, 3, 1,
0; 2000 ED₁₅₄ *, 3, 1, 0; 2000 EE₁₅₄ *, 3, 1, 0; 2000 EF₁₅₄ *, 3, 1, 0; 2000 EG₁₅₄ *, 3, 1,
0; 2000 EH₁₅₄ *, 6, 2, 36; 2000 EI₁₅₄ *, 3, 1, 0; 2000 EK₁₅₄ *, 3, 1, 0; 2000 EL₁₅₄ *, 3, 1,
0; 2000 EM₁₅₄ *, 3, 1, 0; 2000 EN₁₅₄ *, 3, 1, 0; 2000 EO₁₅₄ *, 3, 1, 0; 2000 EP₁₅₄ *, 3, 1,
0; 2000 EQ₁₅₄ *, 3, 1, 0; 2000 ER₁₅₄ *, 3, 1, 0; 2000 ES₁₅₄ *, 3, 1, 0; 2000 ET₁₅₄ *, 3, 1, 0;
2000 EU₁₅₄ *, 3, 1, 0; 2000 EG₁₅₆ *, 3, 1, 0; 2000 EK₁₅₇ *, 3, 1, 0; 2000 EU₁₅₇ *, 3, 1, 0; 2000 EX₁₅₇ *,
3, 1, 0; 2000 EZ₁₅₈ *, 3, 1, 0; 2000 EC₁₆₅ *, 3, 1, 0; 2000 EN₁₆₅ *, 3, 1, 0; 2000 EO₁₆₆ *, 3, 1, 0;
2000 ER₁₇₀ *, 3, 1, 0; 2000 EU₁₇₀ *, 3, 1, 0; 2000 EZ₁₇₀ *, 6, 2, 38; 2000 FA₁₇₁ *, 3, 1, 0; 2000 EA₁₇₂ *,
9, 3, 36; 2000 FB₁₇₁ *, 3, 1, 0; 2000 FL₁₇₁ *, 3, 1, 0; 2000 FY₁₇₁ *, 3, 1, 0; 2000 FE₃ *, 3, 1, 0; 2000 FH₃ *, 3, 1,
0; 2000 FK₃ *, 6, 2, 4; 2000 FQ₃ *, 3, 1, 0; 2000 FU₃ *, 3, 1, 0; 2000 FV₃ *, 3, 1, 0; 2000 FW₃ *, 3, 1,
0; 2000 FE₅ *, 3, 1, 0; 2000 FG₅ *, 3, 1, 0; 2000 FR₇ *, 3, 1, 0; 2000 FN₈ *, 3, 1, 0; 2000 FQ₉ *, 3, 1, 0;
2000 FG₁₀ *, 3, 1, 0; 2000 FQ₁₀ *, 3, 1, 0; 2000 FV₁₁ *, 3, 1, 0; 2000 FG₁₂ *, 3, 1, 0; 2000 FJ₁₂ *, 3, 1, 0;
2000 FK₁₂ *,

2000 APR. 18

M.P.C. 39723

2000 GF₃₀, 3, 1, 0; 2000 GB₃₁, 3, 1, 0; 2000 GR₃₂, 3, 1, 0; 2000 GF₃₃, 3, 1, 0; 2000 GL₃₃, 3, 1, 0; 2000 GB₃₄, 3, 1, 0; 2000 GC₃₄, 3, 1, 0; 2000 GQ₃₄, 3, 1, 0; 2000 GW₃₄, 3, 1, 0; 2000 GF₃₆, 3, 1, 0; 2000 GC₃₇, 6, 2, 1; 2000 GZ₃₇, 3, 1, 0; 2000 GB₃₈, 3, 1, 0; 2000 GB₃₉, 3, 1, 0; 2000 GQ₃₉, 3, 1, 0; 2000 GU₄₁, 3, 1, 0; 2000 GV₄₁, 3, 1, 0; 2000 GZ₄₁, 3, 1, 0; 2000 GB₄₂, 3, 1, 0; 2000 GC₄₂, 3, 1, 0; 2000 GB₄₃, 3, 1, 0; 2000 GP₄₄, 3, 1, 0; 2000 GQ₄₅, 3, 1, 0; 2000 GW₄₅, 3, 1, 0; 2000 GA₄₆, 3, 1, 0; 2000 GC₄₆, 3, 1, 0; 2000 GL₄₆, 3, 1, 0; 2000 GF₄₈, 3, 1, 0; 2000 GU₄₈, 3, 1, 0; 2000 GE₄₉, 3, 1, 0; 2000 GC₄₉, 3, 1, 0; 2000 GF₅₀, 3, 1, 0; 2000 GC₅₁, 3, 1, 0; 2000 GY₅₁, 3, 1, 0; 2000 GB₅₂, 3, 1, 0; 2000 GD₅₂, 3, 1, 0; 2000 GF₅₂, 3, 1, 0; 2000 GB₅₃, 3, 1, 0; 2000 GG₅₃, 3, 1, 0; 2000 GP₅₃, 3, 1, 0; 2000 GR₅₃, 3, 1, 0; 2000 GV₅₆, 3, 1, 0; 2000 GH₅₆, 3, 1, 0; 2000 GX₅₆, 3, 1, 0; 2000 GL₅₇, 3, 1, 0; 2000 GM₅₇, 3, 1, 0; 2000 GR₅₇, 3, 1, 0; 2000 GY₅₇, 3, 1, 0; 2000 GB₅₈, 3, 1, 0; 2000 GC₅₈, 3, 1, 0; 2000 GK₅₈, 3, 1, 0; 2000 GT₅₈, 3, 1, 0; 2000 GX₅₈, 3, 1, 0; 2000 GY₅₈, 3, 1, 0; 2000 GB₅₉, 3, 1, 0; 2000 GN₅₉, 3, 1, 0; 2000 GS₅₉, 3, 1, 0; 2000 GU₅₉, 3, 1, 0; 2000 GZ₅₉, 3, 1, 0; 2000 GC₆₀, 3, 1, 0; 2000 GD₆₀, 3, 1, 0; 2000 GN₆₀, 3, 1, 0; 2000 GP₆₀, 3, 1, 0; 2000 GQ₆₀, 3, 1, 0; 2000 GT₆₀, 3, 1, 0; 2000 GC₆₂, 3, 1, 0; 2000 GG₆₃, 3, 1, 0; 2000 GX₆₃, 3, 1, 0; 2000 GQ₆₄, 3, 1, 0; 2000 GT₆₄, 3, 1, 0; 2000 GW₆₄, 3, 1, 0; 2000 GB₆₅, 3, 1, 0; 2000 GC₆₅, 3, 1, 0; 2000 GF₆₅, 3, 1, 0; 2000 GH₆₅, 3, 1, 0; 2000 GN₆₅, 3, 1, 0; 2000 GO₆₅, 3, 1, 0; 2000 GZ₆₅, 3, 1, 0; 2000 GO₇₂, 3, 1, 0; 2000 GK₇₃, 3, 1, 0; 2000 GV₇₃, 3, 1, 0; 2000 GX₇₃, 3, 1, 0; 2000 GJ₇₄, 3, 1, 0; 2000 GO₇₄, 3, 1, 0; 2000 GJ₇₅, 3, 1, 0; 2000 GL₇₅, 6, 2, 5; 2000 GV₇₅, 3, 1, 0; 2000 GG₇₆, 3, 1, 0; 2000 GJ₇₆, 3, 1, 0; 2000 GW₇₆, 3, 1, 0; 2000 GE₇₇, 3, 1, 0; 2000 GF₇₇, 3, 1, 0; 2000 GM₇₇, 3, 1, 0; 2000 GE₇₈, 3, 1, 0; 2000 GV₇₈, 3, 1, 0; 2000 GC₇₉, 3, 1, 0; 2000 GD₈₀, 3, 1, 0; 2000 GG₈₀, 3, 1, 0; 2000 GO₈₁, 3, 1, 0; 2000 GT₈₁, 3, 1, 0; 2000 GW₈₁, 3, 1, 0; 2000 GY₈₁, 3, 1, 0; 2000 GA₈₂, 3, 1, 0; 2000 GB₈₂, 6, 2, 1; 2000 GH₈₂, 3, 1, 0; 2000 GP₈₂, 3, 1, 0; 2000 GV₈₂ *, 6, 2, 3; 2000 GJ₈₃, 3, 1, 0; 2000 GD₈₄, 3, 1, 0; 2000 GT₈₄, 3, 1, 0; 2000 GC₈₅, 3, 1, 0; 2000 GD₈₅, 3, 1, 0; 2000 GV₈₅, 3, 1, 0; 2000 GJ₈₆, 3, 1, 0; 2000 GC₈₇, 3, 1, 0; 2000 GJ₈₇, 3, 1, 0; 2000 GR₈₇, 3, 1, 0; 2000 GS₈₇, 3, 1, 0; 2000 GV₈₇, 3, 1, 0; 2000 GW₈₇, 3, 1, 0; 2000 GX₈₇, 3, 1, 0; 2000 GY₈₇, 3, 1, 0; 2000 GZ₈₇, 3, 1, 0; 2000 GB₈₈, 3, 1, 0; 2000 GE₈₈, 3, 1, 0; 2000 GF₈₈, 3, 1, 0; 2000 GE₈₉, 3, 1, 0; 2000 GF₈₉, 3, 1, 0; 2000 GM₈₉, 3, 1, 0; 2000 GO₈₉, 3, 1, 0; 2000 GP₈₉, 3, 1, 0; 2000 GR₈₉, 6, 2, 5; 2000 GW₈₉, 3, 1, 0; 2000 GM₉₀, 3, 1, 0; 2000 GN₉₀, 3, 1, 0; 2000 GJ₉₁, 3, 1, 0; 2000 GK₉₁, 3, 1, 0; 2000 GQ₉₁, 3, 1, 0; 2000 GN₉₂, 3, 1, 0; 2000 GE₉₃, 3, 1, 0; 2000 GG₉₃, 3, 1, 0; 2000 GJ₉₃, 3, 1, 0; 2000 GK₉₃, 3, 1, 0; 2000 GN₉₃, 3, 1, 0; 2000 GO₉₃, 3, 1, 0; 2000 GS₉₃, 3, 1, 0; 2000 GT₉₃, 3, 1, 0; 2000 GU₉₃, 3, 1, 0; 2000 GV₉₃, 3, 1, 0; 2000 GX₉₃, 3, 1, 0; 2000 GY₉₃, 3, 1, 0; 2000 GD₉₄, 3, 1, 0; 2000 GE₉₄, 3, 1, 0; 2000 GM₉₄, 3, 1, 0; 2000 GN₉₄, 6, 2, 1; 2000 GP₉₄, 3, 1, 0; 2000 GS₉₄, 3, 1, 0; 2000 GE₉₅, 3, 1, 0; 2000 GW₉₇, 3, 1, 0; 2000 GY₉₇, 3, 1, 0; 2000 GB₉₉, 3, 1, 0; 2000 GC₉₉, 3, 1, 0; 2000 GJ₉₉, 3, 1, 0; 2000 GM₉₉, 3, 1, 0; 2000 GP₉₉, 3, 1, 0; 2000 GS₉₉, 3, 1, 0; 2000 GY₉₉, 3, 1, 0; 2000 GZ₉₉, 3, 1, 0; 2000 GA₁₀₁, 3, 1, 0; 2000 GH₁₀₃, 3, 1, 0; 2000 GJ₁₀₃, 3, 1, 0; 2000 GK₁₀₃, 3, 1, 0; 2000 GL₁₀₃, 3, 1, 0; 2000 GN₁₀₃, 3, 1, 0; 2000 GO₁₀₃, 3, 1, 0; 2000 GS₁₀₃, 3, 1, 0; 2000 GV₁₀₃, 3, 1, 0; 2000 GO₁₀₄, 3, 1, 0; 2000 GY₁₀₄, 3, 1, 0; 2000 GZ₁₀₄, 3, 1, 0; 2000 GA₁₀₅, 3, 1, 0; 2000 GE₁₀₅, 3, 1, 0; 2000 GN₁₀₅, 3, 1, 0; 2000 GA₁₀₆, 3, 1, 0; 2000 GJ₁₀₆, 3, 1, 0; 2000 GK₁₀₆, 3, 1, 0; 2000 GO₁₀₆, 3, 1, 0; 2000 GX₁₀₆, 3, 1, 0; 2000 GF₁₀₇ *, 6, 2, 3; 2000 GM₁₀₇, 3, 1, 0; 2000 GS₁₀₇, 3, 1, 0; 2000 GV₁₀₇, 3, 1, 0; 2000 GJ₁₀₇, 3, 1, 0; 2000 GA₁₀₈, 3, 1, 0; 2000 GQ₁₀₈, 3, 1, 0; 2000 GQ₁₀₈, 3, 1, 0; 2000 GU₁₀₈, 3, 1, 0; 2000 GB₁₀₉, 3, 1, 0; 2000 GE₁₀₉, 3, 1, 0; 2000 GF₁₀₉, 3, 1, 0; 2000 GK₁₀₉, 3, 1, 0; 2000 GQ₁₀₉ *, 6, 2, 1; 2000 GW₁₁₁, 3, 1, 0; 2000 GZ₁₁₁, 3, 1, 0; 2000 GK₁₁₂, 3, 1, 0; 2000 GB₁₁₃, 3, 1, 0; 2000 GJ₁₁₃, 3, 1, 0; 2000 GD₁₁₄, 3, 1, 0; 2000 GE₁₁₄, 3, 1, 0; 2000 GT₁₁₄, 3, 1, 0; 2000 GM₁₂₂ *, 6, 2, 1; 2000 GN₁₂₂ *, 6, 2, 1; 2000 GX₁₂₂, 3, 1, 0; 2000 GA₁₂₃, 3, 1, 0; 2000 GK₁₂₃, 3, 1, 0; 2000 GB₁₂₄, 3, 1, 0; 2000 GH₁₂₄, 3, 1, 0; 2000 GJ₁₂₄, 3, 1, 0; 2000 GQ₁₂₄, 3, 1, 0; 2000 GJ₁₂₅, 3, 1, 0; 2000 GQ₁₂₅, 3, 1, 0; 2000 GN₁₂₇ *, 6, 2, 2; 2000 GO₁₂₇ *, 6, 2, 1; 2000 GP₁₂₇ *, 6, 2, 1; 2000 GQ₁₂₇, 3, 1, 0; 2000 GP₁₃₂ *, 6, 2, 1; 2000 GQ₁₃₂ *, 6, 2, 1; 2000 GR₁₃₂ *, 6, 2, 1; 2000 GC₁₃₃ *, 6, 2, 1; 2000 GD₁₃₃ *, 6, 2, 1; 2000 GE₁₃₃ *, 9, 3, 1; 2000 GF₁₃₃ *, 6, 2, 1; 2000 GG₁₃₃ *, 6, 2, 1; 2000 GH₁₃₃ *, 6, 2, 1; 2000 GM₁₃₃, 3, 1, 0; 2000 GR₁₃₆, 3, 1, 0; 2000 GS₁₄₂, 3, 1, 0; 2000 GT₁₄₆ *, 6, 2, 5; 2000 GU₁₄₆ *, 6, 2, 5; 2016 P-L, 3, 1, 0; 2038 P-L, 3, 1, 0; 2654 P-L, 3, 1, 0; 3005 P-L, 3, 1, 0; 4100 P-L, 3, 1, 0; 6069 P-L, 3, 1, 0; 6274 P-L, 6, 2, 36; 6773 P-L, 3, 1, 0; 7075 P-L, 3, 1, 0; 9062 P-L, 3, 1, 0; 1034 T-1, 3, 1, 0; 4105 T-1, 3, 1, 0; 1282 T-2, 6, 2, 35; 2052 T-2, 3, 1, 0; 3092 T-2, 3, 1, 0; 4234 T-2, 3, 1, 0; 1032 T-3, 3, 1, 0; 1084 T-3, 3, 1, 0; 1107 T-3, 3, 1, 0; 2151 T-3, 3, 1, 0; 2288 T-3, 3, 1, 0; 3149 T-3, 3, 1, 0; 3245 T-3, 3, 1, 0; 4052 T-3, 3, 1, 0; 5130 T-3, 3, 1, 0; 5739 T-3, 3, 1, 0; (35), 3, 1, 0; (44), 4, 2, 35; (45), 9, 3, 36; (54), 3, 1, 0; (67), 6, 2, 36; (68), 3, 1, 0; (69), 3, 1, 0; (70), 3, 1, 0; (75), 5, 2, 36; (98), 3, 1, 0; (126), 6, 2, 36; (130), 3, 1, 0; (133), 3, 1, 0; (152), 3, 1, 0; (167), 3, 1, 0; (171), 3, 1, 0; (190), 3, 1, 0; (196), 3, 1, 0; (200), 3, 1, 0; (202), 3, 1, 0; (229), 3, 1, 0; (233), 3, 1, 0; (236), 3, 1, 0; (239), 3, 1, 0; (245), 3, 1, 0; (246), 3, 1, 0; (256), 6, 2, 30; (258), 3, 1, 0; (265), 3, 1, 0; (269), 3, 1, 0; (270), 3, 1, 0; (282), 3, 1, 0; (287), 3, 1, 0; (288), 3, 1, 0; (295), 6, 2, 35; (305), 3, 1, 0; (309), 3, 1, 0; (314), 3, 1, 0; (319), 6, 2, 4; (323), 3, 1, 0; (330), 2, 1, 0; (333), 6, 2, 37; (335), 3, 1, 0; (339), 3, 1, 0; (345), 3, 1, 0; (357), 3, 1, 0; (368), 3, 1, 0; (369), 3, 1, 0; (371), 3, 1, 0; (380), 6, 2, 32; (383), 3, 1, 0; (398), 3, 1, 0; (429), 3, 1, 0; (431), 3, 1, 0; (435), 3, 1, 0; (439), 3, 1, 0; (442), 3, 1, 0; (444), 3, 1, 0; (447), 6, 2, 35; (462), 3, 1, 0; (475), 2, 1, 0; (513), 3, 1, 0; (521), 6, 2, 6; (537), 3, 1, 0; (558), 3, 1, 0; (572), 3, 1, 0; (580), 9, 3, 40; (589), 3, 1, 0; (658), 6, 2, 22; (670), 3, 1, 0; (673), 3, 1, 0; (674), 3, 1, 0; (676), 3, 1, 0; (691), 6, 2, 6; (695), 3, 1, 0; (718), 3, 1, 0; (726), 3, 1, 0; (731), 3, 1, 0; (732), 3, 1, 0; (756), 3, 1, 0; (762), 3, 1, 0; (766), 3, 1, 0; (793), 3, 1, 0;

(798), 6, 2, 20; (812), 6, 2, 16; (813), 3, 1, 0; (816), 3, 1, 0; (831), 3, 1, 0; (835), 3, 1, 0; (857), 3, 1, 0; (858), 6, 2, 6; (865), 6, 2, 5; (866), 3, 1, 0; (876), 3, 1, 0; (877), 3, 1, 0; (881), 3, 1, 0; (894), 3, 1, 0; (901), 3, 1, 0; (909), 3, 1, 0; (913), 3, 1, 0; (933), 3, 1, 0; (934), 3, 1, 0; (956), 5, 2, 22; (984), 3, 1, 0; (1025), 6, 2, 41; (1033), 3, 1, 0; (1035), 3, 1, 0; (1041), 6, 2, 4; (1043), 3, 1, 0; (1050), 3, 1, 0; (1062), 3, 1, 0; (1073), 3, 1, 0; (1097), 6, 2, 16; (1100), 3, 1, 0; (1111), 3, 1, 0; (1161), 3, 1, 0; (1163), 3, 1, 0; (1164), 3, 1, 0; (1171), 3, 1, 0; (1177), 3, 1, 0; (1188), 6, 2, 6; (1190), 3, 1, 0; (1194), 3, 1, 0; (1201), 3, 1, 0; (1213), 3, 1, 0; (1241), 6, 2, 36; (1261), 3, 1, 0; (1275), 3, 1, 0; (1280), 6, 2, 20; (1305), 3, 1, 0; (1313), 3, 1, 0; (1315), 3, 1, 0; (1328), 3, 1, 0; (1335), 3, 1, 0; (1336), 6, 2, 5; (1352), 3, 1, 0; (1379), 3, 1, 0; (1386), 3, 1, 0; (1394), 6, 2, 36; (1412), 3, 1, 0; (1413), 3, 1, 0; (1424), 3, 1, 0; (1427), 3, 1, 0; (1462), 3, 1, 0; (1472), 5, 2, 16; (1497), 6, 2, 36; (1515), 3, 1, 0; (1536), 3, 1, 0; (1546), 6, 2, 33; (1553), 3, 1, 0; (1557), 3, 1, 0; (1564), 3, 1, 0; (1571), 6, 2, 35; (1585), 3, 1, 0; (1586), 3, 1, 0; (1596), 3, 1, 0; (1615), 6, 2, 6; (1666), 6, 2, 22; (1673), 3, 1, 0; (1693), 3, 1, 0; (1696), 3, 1, 0; (1702), 3, 1, 0; (1707), 3, 1, 0; (1708), 3, 1, 0; (1710), 3, 1, 0; (1721), 3, 1, 0; (1733), 2, 1, 0; (1734), 1, 1, 0; (1737), 3, 1, 0; (1738), 3, 1, 0; (1741), 2, 1, 0; (1751), 3, 1, 0; (1783), 3, 1, 0; (1823), 3, 1, 0; (1829), 3, 1, 0; (1842), 3, 1, 0; (1845), 3, 1, 0; (1848), 3, 1, 0; (1887), 3, 1, 0; (1899), 3, 1, 0; (1914), 3, 1, 0; (1926), 3, 1, 0; (1939), 3, 1, 0; (1941), 3, 1, 0; (1952), 2, 1, 0; (1954), 5, 2, 22; (1967), 3, 1, 0; (1991), 3, 1, 0; (2024), 3, 1, 0; (2032), 3, 1, 0; (2034), 3, 1, 0; (2066), 3, 1, 0; (2086), 3, 1, 0; (2090), 3, 1, 0; (2110), 6, 2, 36; (2123), 3, 1, 0; (2130), 3, 1, 0; (2139), 6, 2, 36; (2142), 6, 2, 34; (2147), 3, 1, 0; (2151), 3, 1, 0; (2156), 3, 1, 0; (2166), 3, 1, 0; (2173), 3, 1, 0; (2184), 3, 1, 0; (2197), 3, 1, 0; (2220), 6, 2, 36; (2250), 3, 1, 0; (2257), 3, 1, 0; (2268), 3, 1, 0; (2295), 3, 1, 0; (2298), 3, 1, 0; (2303), 3, 1, 0; (2309), 6, 2, 30; (2312), 3, 1, 0; (2330), 3, 1, 0; (2335), 3, 1, 0; (2336), 3, 1, 0; (2342), 3, 1, 0; (2344), 6, 2, 9; (2346), 3, 1, 0; (2352), 3, 1, 0; (2358), 3, 1, 0; (2371), 6, 2, 20; (2404), 3, 1, 0; (2413), 6, 2, 5; (2421), 3, 1, 0; (2422), 6, 2, 6; (2424), 3, 1, 0; (2440), 3, 1, 0; (2447), 3, 1, 0; (2459), 9, 3, 36; (2468), 3, 1, 0; (2471), 3, 1, 0; (2474), 3, 1, 0; (2516), 3, 1, 0; (2517), 3, 1, 0; (2531), 3, 1, 0; (2532), 3, 1, 0; (2533), 3, 1, 0; (2553), 3, 1, 0; (2558), 3, 1, 0; (2571), 3, 1, 0; (2585), 3, 1, 0; (2592), 6, 2, 5; (2662), 3, 1, 0; (2681), 3, 1, 0; (2699), 3, 1, 0; (2704), 6, 2, 20; (2708), 3, 1, 0; (2721), 3, 1, 0; (2752), 3, 1, 0; (2775), 3, 1, 0; (2776), 3, 1, 0; (2798), 3, 1, 0; (2802), 6, 2, 6; (2826), 3, 1, 0; (2846), 3, 1, 0; (2869), 3, 1, 0; (2876), 3, 1, 0; (2889), 3, 1, 0; (2892), 6, 2, 40; (2923), 6, 2, 16; (2963), 3, 1, 0; (2985), 6, 2, 4; (3005), 3, 1, 0; (3006), 3, 1, 0; (3018), 3, 1, 0; (3044), 3, 1, 0; (3062), 3, 1, 0; (3068), 3, 1, 0; (3090), 3, 1, 0; (3093), 3, 1, 0; (3107), 3, 1, 0; (3115), 3, 1, 0; (3119), 3, 1, 0; (3136), 9, 3, 36; (3141), 3, 1, 0; (3144), 3, 1, 0; (3179), 3, 1, 0; (3250), 3, 1, 0; (3265), 3, 1, 0; (3283), 3, 1, 0; (3298), 3, 1, 0; (3330), 6, 2, 35; (3333), 3, 1, 0; (3355), 3, 1, 0; (3357), 3, 1, 0; (3359), 3, 1, 0; (3375), 6, 2, 6; (3387), 3, 1, 0; (3396), 3, 1, 0; (3405), 3, 1, 0; (3407), 3, 1, 0; (3412), 3, 1, 0; (3427), 3, 1, 0; (3439), 3, 1, 0; (3447), 6, 2, 32; (3456), 3, 1, 0; (3466), 3, 1, 0; (3499), 3, 1, 0; (3505), 3, 1, 0; (3506), 3, 1, 0; (3522), 3, 1, 0; (3552), 6, 2, 36; (3584), 3, 1, 0; (3597), 3, 1, 0; (3610), 3, 1, 0; (3612), 3, 1, 0; (3618), 3, 1, 0; (3619), 3, 1, 0; (3625), 3, 1, 0; (3626), 3, 1, 0; (3658), 3, 1, 0; (3662), 3, 1, 0; (3668), 6, 2, 16; (3677), 3, 1, 0; (3681), 3, 1, 0; (3705), 3, 1, 0; (3719), 3, 1, 0; (3721), 3, 1, 0; (3741), 3, 1, 0; (3768), 3, 1, 0; (3772), 3, 1, 0; (3815), 6, 2, 16; (3818), 3, 1, 0; (3832), 3, 1, 0; (3861), 3, 1, 0; (3865), 6, 2, 35; (3869), 3, 1, 0; (3879), 3, 1, 0; (3883), 3, 1, 0; (3894), 3, 1, 0; (3903), 3, 1, 0; (3904), 3, 1, 0; (3949), 6, 2, 24; (3990), 3, 1, 0; (4001), 3, 1, 0; (4012), 3, 1, 0; (4020), 3, 1, 0; (4024), 3, 1, 0; (4025), 3, 1, 0; (4032), 3, 1, 0; (4074), 3, 1, 0; (4075), 3, 1, 0; (4081), 3, 1, 0; (4084), 3, 1, 0; (4112), 3, 1, 0; (4128), 3, 1, 0; (4140), 3, 1, 0; (4143), 3, 1, 0; (4173), 3, 1, 0; (4188), 3, 1, 0; (4198), 3, 1, 0; (4207), 3, 1, 0; (4214), 3, 1, 0; (4258), 3, 1, 0; (4262), 3, 1, 0; (4285), 3, 1, 0; (4288), 6, 2, 16; (4300), 3, 1, 0; (4313), 6, 2, 6; (4323), 3, 1, 0; (4325), 9, 3, 36; (4349), 3, 1, 0; (4352), 6, 2, 15; (4360), 3, 1, 0; (4418), 3, 1, 0; (4427), 3, 1, 0; (4461), 3, 1, 0; (4462), 3, 1, 0; (4506), 6, 2, 35; (4507), 3, 1, 0; (4529), 6, 2, 16; (4532), 3, 1, 0; (4542), 3, 1, 0; (4557), 3, 1, 0; (4635), 3, 1, 0; (4642), 3, 1, 0; (4643), 3, 1, 0; (4700), 3, 1, 0; (4719), 3, 1, 0; (4753), 3, 1, 0; (4804), 3, 1, 0; (4860), 3, 1, 0; (4874), 3, 1, 0; (4901), 3, 1, 0; (4908), 3, 1, 0; (4923), 3, 1, 0; (4934), 3, 1, 0; (4935), 3, 1, 0; (4940), 6, 2, 6; (4954), 3, 1, 0; (4958), 3, 1, 0; (4959), 3, 1, 0; (4961), 3, 1, 0; (5002), 3, 1, 0; (5016), 3, 1, 0; (5017), 3, 1, 0; (5022), 3, 1, 0; (5050), 3, 1, 0; (5053), 3, 1, 0; (5058), 3, 1, 0; (5062), 3, 1, 0; (5165), 6, 2, 36; (5180), 3, 1, 0; (5188), 3, 1, 0; (5218), 3, 1, 0; (5269), 6, 2, 32; (5272), 3, 1, 0; (5273), 3, 1, 0; (5282), 3, 1, 0; (5303), 6, 2, 9; (5306), 3, 1, 0; (5314), 3,

3, 1, 0; (6707), 3, 1, 0; (6709), 3, 1, 0; (6753), 3, 1, 0; (6769), 3, 1, 0; (6771), 3, 1, 0; (6801), 3, 1, 0; (6804), 6, 2, 35; (6819), 3, 1, 0; (6841), 3, 1, 0; (6843), 6, 2, 35; (6844), 3, 1, 0; (6845), 3, 1, 0; (6854), 3, 1, 0; (6856), 3, 1, 0; (6863), 3, 1, 0; (6867), 3, 1, 0; (6876), 3, 1, 0; (6877), 3, 1, 0; (6878), 3, 1, 0; (6882), 3, 1, 0; (6886), 3, 1, 0; (6888), 3, 1, 0; (6897), 3, 1, 0; (6920), 3, 1, 0; (6928), 3, 1, 0; (6939), 3, 1, 0; (6965), 3, 1, 0; (6979), 6, 2, 4; (6985), 3, 1, 0; (7017), 3, 1, 0; (7021), 3, 1, 0; (7076), 3, 1, 0; (7100), 3, 1, 0; (7106), 3, 1, 0; (7126), 3, 1, 0; (7131), 3, 1, 0; (7212), 3, 1, 0; (7217), 3, 1, 0; (7231), 3, 1, 0; (7270), 3, 1, 0; (7278), 3, 1, 0; (7313), 3, 1, 0; (7331), 3, 1, 0; (7337), 3, 1, 0; (7353), 3, 1, 0; (7357), 3, 1, 0; (7400), 3, 1, 0; (7412), 3, 1, 0; (7439), 3, 1, 0; (7451), 6, 2, 20; (7487), 3, 1, 0; (7560), 3, 1, 0; (7625), 3, 1, 0; (7645), 3, 1, 0; (7655), 3, 1, 0; (7677), 3, 1, 0; (7709), 3, 1, 0; (7724), 6, 2, 4; (7732), 3, 1, 0; (7736), 3, 1, 0; (7738), 3, 1, 0; (7740), 3, 1, 0; (7741), 6, 2, 16; (7759), 3, 1, 0; (7760), 3, 1, 0; (7777), 3, 1, 0; (7786), 3, 1, 0; (7787), 3, 1, 0; (7798), 3, 1, 0; (7805), 2, 1, 0; (7806), 3, 1, 0; (7810), 3, 1, 0; (7811), 3, 1, 0; (7812), 3, 1, 0; (7813), 3, 1, 0; (7814), 3, 1, 0; (7824), 3, 1, 0; (7833), 3, 1, 0; (7852), 3, 1, 0; (7857), 3, 1, 0; (7859), 3, 1, 0; (7864), 6, 2, 35; (7866), 3, 1, 0; (7868), 3, 1, 0; (7873), 3, 1, 0; (7875), 3, 1, 0; (7881), 3, 1, 0; (7898), 3, 1, 0; (7913), 3, 1, 0; (7914), 6, 2, 35; (7926), 3, 1, 0; (7932), 3, 1, 0; (7940), 3, 1, 0; (7946), 3, 1, 0; (7952), 3, 1, 0; (7953), 9, 3, 31; (7954), 3, 1, 0; (7963), 3, 1, 0; (7964), 3, 1, 0; (7979), 3, 1, 0; (7980), 3, 1, 0; (7981), 3, 1, 0; (7993), 3, 1, 0; (8042), 3, 1, 0; (8052), 3, 1, 0; (8057), 3, 1, 0; (8061), 3, 1, 0; (8084), 6, 2, 4; (8096), 3, 1, 0; (8103), 3, 1, 0; (8133), 6, 2, 5; (8171), 3, 1, 0; (8184), 3, 1, 0; (8203), 3, 1, 0; (8294), 3, 1, 0; (8550), 3, 1, 0; (9147), 3, 1, 0; (9156), 3, 1, 0; (9159), 3, 1, 0; (9198), 3, 1, 0; (9224), 3, 1, 0; (9254), 3, 1, 0; (9276), 3, 1, 0; (9279), 3, 1, 0; (9281), 3, 1, 0; (9302), 3, 1, 0; (9355), 3, 1, 0; (9367), 3, 1, 0; (9368), 3, 1, 0; (9392), 3, 1, 0; (9417), 3, 1, 0; (9422), 3, 1, 0; (9449), 3, 1, 0; (9492), 3, 1, 0; (9495), 6, 2, 36; (9500), 3, 1, 0; (9531), 3, 1, 0; (9538), 3, 1, 0; (9542), 3, 1, 0; (9549), 3, 1, 0; (9556), 3, 1, 0; (9564), 3, 1, 0; (9576), 3, 1, 0; (9580), 3, 1, 0; (9593), 3, 1, 0; (9594), 6, 2, 9; (9596), 3, 1, 0; (9597), 6, 2, 6; (9599), 3, 1, 0; (9602), 3, 1, 0; (9615), 3, 1, 0; (9620), 3, 1, 0; (9626), 3, 1, 0; (9643), 6, 2, 32; (9655), 3, 1, 0; (9656), 3, 1, 0; (9658), 3, 1, 0; (9663), 3, 1, 0; (9690), 3, 1, 0; (9700), 3, 1, 0; (9708), 3, 1, 0; (9720), 3, 1, 0; (9722), 3, 1, 0; (9729), 3, 1, 0; (9734), 3, 1, 0; (9740), 3, 1, 0; (9748), 3, 1, 0; (9761), 3, 1, 0; (9763), 3, 1, 0; (9770), 3, 1, 0; (9776), 3, 1, 0; (9778), 3, 1, 0; (9782), 3, 1, 0; (9783), 3, 1, 0; (9787), 6, 2, 20; (9796), 6, 2, 35; (9810), 3, 1, 0; (9819), 3, 1, 0; (9820), 6, 2, 5; (9837), 3, 1, 0; (9844), 3, 1, 0; (9848), 3, 1, 0; (9849), 3, 1, 0; (9855), 3, 1, 0; (9864), 9, 3, 35; (9894), 3, 1, 0; (9895), 3, 1, 0; (9900), 6, 2, 6; (9912), 3, 1, 0; (9916), 3, 1, 0; (9932), 3, 1, 0; (9936), 3, 1, 0; (9957), 3, 1, 0; (9964), 3, 1, 0; (9970), 3, 1, 0; (9973), 3, 1, 0; (9977), 6, 2, 35; (9983), 3, 1, 0; (9989), 3, 1, 0; (9991), 3, 1, 0; (9999), 6, 2, 35; (10002), 3, 1, 0; (10004), 3, 1, 0; (10018), 3, 1, 0; (10020), 3, 1, 0; (10033), 3, 1, 0; (10044), 6, 2, 36; (10046), 3, 1, 0; (10048), 3, 1, 0; (10064), 3, 1, 0; (10069), 3, 1, 0; (10073), 3, 1, 0; (10080), 3, 1, 0; (10086), 3, 1, 0; (10097), 3, 1, 0; (10109), 6, 2, 4; (10116), 3, 1, 0; (10120), 3, 1, 0; (10123), 3, 1, 0; (10141), 3, 1, 0; (10142), 3, 1, 0; (10144), 6, 2, 5; (10146), 3, 1, 0; (10147), 9, 3, 36; (10152), 3, 1, 0; (10169), 3, 1, 0; (10177), 3, 1, 0; (10189), 3, 1, 0; (10204), 3, 1, 0; (10228), 3, 1, 0; (10232), 3, 1, 0; (10236), 6, 2, 5; (10240), 3, 1, 0; (10245), 3, 1, 0; (10338), 3, 1, 0; (10356), 3, 1, 0; (10381), 3, 1, 0; (10410), 3, 1, 0; (10417), 3, 1, 0; (10426), 3, 1, 0; (10451), 3, 1, 0; (10492), 3, 1, 0; (10556), 3, 1, 0; (10573), 3, 1, 0; (10641), 6, 2, 35; (11005), 3, 1, 0; (11147), 3, 1, 0; (11305), 3, 1, 0; (11310), 3, 1, 0; (11316), 3, 1, 0; (11334), 3, 1, 0; (11351), 3, 1, 0; (11383), 3, 1, 0; (11393), 3, 1, 0; (11394), 3, 1, 0; (11619), 3, 1, 0; (12339), 6, 2, 8; (12553), 6, 2, 30; (12556), 3, 1, 0; (12680), 3, 1, 0; (12696), 3, 1, 0; (12812), 3, 1, 0; (12814), 3, 1, 0; (12836), 3, 1, 0; (12848), 3, 1, 0; (12975), 6, 2, 9; (12987), 3, 1, 0; (13010), 3, 1, 0; (13019), 3, 1, 0; (13022), 3, 1, 0; (13031), 3, 1, 0; (13034), 3, 1, 0; (13054), 3, 1, 0; (13059), 3, 1, 0; (13072), 3, 1, 0; (13074), 3, 1, 0; (13084), 3, 1, 0; (13093), 3, 1, 0; (13096), 3, 1, 0; (13124), 6, 2, 36; (13132), 3, 1, 0; (13164), 3, 1, 0; (13169), 3, 1, 0; (13171), 3, 1, 0; (13172), 3, 1, 0; (13221), 6, 2, 35; (13222), 3, 1, 0; (13288), 3, 1, 0; (13316), 3, 1, 0; (13358), 6, 2, 35; (13361), 3, 1, 0; (13368), 3, 1, 0; (13380), 6, 2, 4; (13382), 3, 1, 0; (13384), 3, 1, 0; (13471), 3, 1, 0; (13482), 3, 1, 0; (13487), 6, 2, 6; (13492), 3, 1, 0; (13501), 6, 2, 4; (13508), 3, 1, 0; (13522), 3, 1, 0; (13529), 3, 1, 0; (13532), 3, 1, 0; (13541), 3, 1, 0; (13542), 6, 2, 36; (13543), 3, 1, 0; (13552), 3, 1, 0; (13557), 6, 2, 30; (13559), 3, 1, 0; (13565), 3, 1, 0; (13571), 3, 1, 0; (13573), 3, 1, 0; (13582), 3, 1, 0; (13593), 3, 1, 0; (13608), 3, 1, 0; (13610), 6, 2, 36; (13617), 3, 1, 0; (13628), 3, 1, 0; (13638), 3, 1, 0; (13640), 3, 1, 0; (13649), 3, 1, 0; (13670), 3, 1, 0; (13679), 3, 1, 0; (13693), 6, 2, 31; (13701), 3, 1, 0; (13709), 3, 1, 0; (13728), 3, 1, 0; (13751), 3, 1, 0; (13778), 3, 1, 0; (13779), 3, 1, 0; (13786), 3, 1, 0; (13791), 3, 1, 0; (13792), 3, 1, 0; (13799), 3, 1, 0; (13800), 3, 1, 0; (13804), 3, 1, 0; (13809), 3, 1, 0; (13811), 6, 2, 34; (13812), 3, 1, 0; (13856), 2, 1, 0; (13879), 3, 1, 0; (13886), 3, 1, 0; (13908), 3, 1, 0; (13911), 3, 1, 0; (13916), 3, 1, 0; (13917), 3, 1, 0; (13924), 3, 1, 0; (13925), 3, 1, 0; (13939), 3, 1, 0; (13945), 3, 1, 0; (13947), 3, 1, 0; (13948), 3, 1, 0; (13952), 3, 1, 0; (13954), 3, 1, 0; (13967), 3, 1, 0; (13972), 3, 1, 0; (13979), 2, 1, 0; (13980), 3, 1, 0; (13985), 3, 1, 0; (13990), 3, 1, 0; (14014), 6, 2, 32; (14015), 3, 1, 0; (14016), 6, 2, 2; (14023), 3, 1, 0; (14024), 3, 1, 0; (14030), 3, 1, 0; (14033), 3, 1, 0; (14034), 6, 2, 32; (14038), 3, 1, 0; (14050), 3, 1, 0; (14058), 3, 1, 0; (14060), 3, 1, 0; (14073), 3, 1, 0; (14082), 3, 1, 0; (14083), 3, 1, 0; (14086), 3, 1, 0; (14089), 3, 1, 0; (14106), 3, 1, 0; (14110), 3, 1, 0; (14119), 3, 1, 0; (14120), 3, 1, 0; (14126), 3, 1, 0; (14128), 3, 1, 0; (14133), 3, 1, 0; (14137), 3, 1, 0; (14156), 3, 1, 0; (14158), 3, 1, 0; (14162), 3, 1, 0; (14164), 3, 1, 0; (14165), 3, 1, 0; (14166), 3, 1, 0; (14168), 3, 1, 0; (14169), 3, 1, 0; (14174), 3, 1, 0; (14175), 3, 1, 0; (14178), 3, 1, 0; (14179), 3, 1, 0; (14183), 3, 1, 0; (14184), 3, 1, 0; (14186), 6, 2, 32; (14187), 3, 1, 0; (14195), 3, 1, 0; (14198), 3, 1, 0; (14202), 3, 1, 0; (14207), 3, 1, 0; (14238), 6, 2, 36; (14246), 3, 1, 0; (14254), 3, 1, 0; (14260),

3, 1, 0; (14265), 3, 1, 0; (14275), 3, 1, 0; (14278), 3, 1, 0; (14280), 3, 1, 0; (14281), 3, 1, 0; (14284), 3, 1, 0; (14293), 3, 1, 0; (14295), 6, 2, 4; (14298), 3, 1, 0; (14302), 3, 1, 0; (14306), 3, 1, 0; *[9381, 2839, 213*, 1994/10/11–2000/04/17]*

610 Pianoro

V. Goretta, Via Resistenza 93, I-40065 Pianoro (BO), Italy

[astrofil@astbo1.bo.cnr.it]

0.25-m $f/4$ Schmidt-Cassegrain + CCD

GSC, USNO-A2.0

1991 DB, 4, 1, 0; 1994 QC, 10, 2, 1; 1999 NC₄₃, 9, 2, 6; 2000 BY₃, 5, 1, 0; 2000 BG₁₉, 8, 2, 6; 2000 EE₁₀₄, 13, 3, 7; 2000 FL₁₀, 9, 2, 1; 2000 GE₂, 4, 1, 0; (1036), 9, 2, 6; (1627), 4, 1, 0; (1685), 8, 2, 6; (4055), 4, 1, 0; (4954), 4, 1, 0; (5604), 4, 1, 0; *[95, 14, 0*, 2000/04/01–2000/04/08]*

611 Starkenburg Sternwarte, Heppenheim

M. Busch, Giessener Strasse 4, D-64646 Heppenheim, Germany [mab@iez.com]

Observers M. Busch, E. Schwab, S. Kluegl, A. Seib, R. Stoss, F. Hormuth,

R. Kresken, F. Mueller, K. Sonnenberg, J. Roethermel, S. Kluegl, L. Kurtze

Measurers M. Busch, F. Hormuth, L. Kurtze, R. Kresken, R. Stoss

0.45-m $f/4.4$ reflector + CCD, 0.30-m $f/6.3$ reflector + CCD

USNO-SA2.0, USNO-A2.0, GSC-ACT

1991 DB, 3, 1, 0; 1995 DH, 1, 1, 0; 1998 QE₄₃, 3, 1, 0; 1998 SY₆₃, 2, 1, 0; 1999 HF₁, 4, 1, 0; 1999 NC₄₃, 3, 1, 0; 1999 RH₂₇, 4, 1, 0; 1999 VS₆, 3, 1, 0; 1999 XK₁₄, 4, 1, 0; 2000 AB₉₈, 2, 1, 0; 2000 AC₉₈, 2, 1, 0; 2000 DK₇₉, 2, 1, 0; 2000 EE₃₆, 2, 1, 0; 2000 EW₇₀, 55, 2, 1; 2000 EF₁₀₄, 3, 1, 0; 2000 EZ₁₄₈, 2, 1, 0; 2000 FO₁₀, 2, 1, 0; 2000 GH₁ *, 5, 2, 3; 2000 GA₂, 2, 1, 0; 2000 GC₂, 2, 1, 0; 2000 GF₂, 1, 1, 0; (110), 4, 1, 0; (1627), 3, 1, 0; (5899), 2, 1, 0; (13889), 4, 1, 0; *[120, 25, 1*, 2000/03/21–2000/04/07]*

620 Observatorio Astronómico de Mallorca

À. López, Observatori Astronòmic de Mallorca, Camí de l'observatori s/n, E-07144

Costitx, Balears, Spain [astroam@dinky.bitel.es]

Observers M. Blasco, J. Rodriguez, S. Sanchez, À. López, R. Pacheco

0.41-m $f/2.0$ Schmidt-Cassegrain + CCD

GSC, USNO-SA2

1993 SA₁₄, 15, 3, 13; 2000 EW₅₀, 3, 1, 0; 2000 FN₁₀, 3, 1, 0; 2000 FO₁₀, 3, 1, 0; *[24, 4, 0*, 2000/03/11–2000/04/01]*

621 Bergisch Gladbach

W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]

0.60-m $f/5$ reflector + CCD

USNO-A2.0

1993 TV₁₉, 6, 2, 12; 1997 RB₉, 15, 5, 56; 1998 QK₆₃, 12, 4, 5; 1998 VY₃₃, 6, 2, 3; 1998 WO₈, 3, 3, 2; 1999 UE₃, 6, 2, 12; 2000 CB₁, 6, 2, 1; 2000 CY₁₀₁, 9, 3, 4; 2000 EB₄₆, 12, 4, 4; 2000 EX₄₇, 3, 1, 0; 2000 EN₆₅, 15, 5, 7; 2000 GN₈, 4, 1, 0; 2000 GO₈₂, 4, 1, 0; 2000 GP₈₂, 6, 2, 2; 2000 GO₁₂₂ *, 12, 4, 4; 2000 GP₁₂₂ *, 10, 3, 2; 2000 GQ₁₂₂ *, 9, 3, 4; 2000 GR₁₂₂ *, 8, 2, 1; 2000 GS₁₂₂ *, 6, 2, 2; 2000 GU₁₂₇, 5, 1, 0; 2000 GS₁₄₆, 6, 1, 0; (2721), 6, 2, 1; (4505), 8, 2, 5; (9437), 8, 2, 1; *[185, 24, 5*, 2000/02/12–2000/04/10]*

628 Mülheim-Ruhr

A. Martin, Turtle Star Observatory, Friedhostr. 15, D-45478 Mülheim-Ruhr,

Germany [axelm@bph.ruhr-uni-bochum.de]

Observers A. Boeker, A. Martin, K. Kleemann-Boeker

0.2-m Schmidt-Cassegrain + CCD

USNO-A2.0

1983 GU, 4, 1, 0; 1990 UJ₄, 3, 1, 0; 1991 GA₁₀, 4, 1, 0; 1999 XF₃₄, 3, 1, 0; 2000 BE₁, 4, 1, 0; 2000 DL₁, 4, 1, 0; 2000 EE₃₆, 4, 1, 0; (4436), 4, 1, 0; (10187), 4, 1, 0; *[34, 9, 0*, 2000/04/01–2000/04/08]*

2000 APR. 18

M.P.C. 39725

631 Hamburg-Georgswerder

M. Buck, Niedergeorgswerder Deich 96a, D-21109 Hamburg, Germany

[michael.buck@joice.net]

0.15-m $f/8$ refractor + CCD

GSC

(234), 4, 2, 1; (858), 4, 2, 1; (1036), 4, 2, 1; (1424), 4, 2, 1; (1627), 4, 2, 1; [20, 5, 0*, 2000/04/05–2000/04/06]

636 Essen

A. Knöfel, Saarbrücker Str. 8, D-40476 Düsseldorf, Germany [aknoefel@dip.de]

Observers A. Knöfel, T. Payer

Measurer A. Knöfel

0.318-m $f/5.7$ reflector + CCD

USNO-A2.0

1983 GU, 4, 2, 1; 1990 SP₁₅, 4, 2, 3; 1992 ER₁₁, 4, 2, 3; 1994 QA, 4, 2, 3; 1998 SY₆₃, 5, 2, 1; 1998 UF₈, 4, 2, 3; 2000 AB₉₈, 5, 2, 1; 2000 AF₁₃₇, 6, 2, 3; 2000 AA₁₆₈, 4, 2, 4; 2000 ED, 4, 2, 1; 2000 EY₁₃₉, 6, 2, 4; 2000 FP₃₁, 2, 1, 0; (3681), 2, 1, 0; (4078), 6, 2, 4; [60, 14, 0*, 2000/04/05–2000/04/10]

639 Dresden

S. Gebhard, Duckwitzstrasse 27d, D-01129 Dresden, Germany [Gebhard@t-online.de]

0.35-m $f/7.3$ reflector + CCD

USNO-A2.0

2000 EW₇₀, 6, 2, 1; (1627), 6, 2, 3; [12, 2, 0*, 2000/03/21–2000/04/06]

641 Overberg

A. van Staden, 7 Sonop Street, Bredasdorp 7280, South Africa

[andrev@otb.co.za]

0.20-m $f/7.9$ reflector + CCD

GSC

2000 DE₁, 3, 1, 0; 2000 DF₁, 2, 1, 0; 2000 DG₁, 2, 1, 0; 2000 DR₈, 2, 1, 0; (5701), 2, 1, 0; [11, 5, 0*, 2000/03/11–2000/03/12]

642 Oak Bay, Victoria

C. E. Spratt, 1431 St. Patrick Street, Victoria, BC V8S 4Y5, Canada

[cspratt@islandnet.com]

0.20-m $f/3.7$ Schmidt-Cassegrain +focal reducer + CCD

GSC

1991 DB, 3, 1, 0; 1991 GA₁₀, 8, 3, 2; 2000 DL₁, 3, 1, 0; 2000 DF₃, 2, 1, 0; [16, 4, 0*, 2000/03/31–2000/04/09]

649 Powell Observatory, Louisburg

L. Robinson, 14680 W 144 St., Olathe, KS 66062, U.S.A.

[lrobinns@ix.netcom.com]

Observers M. Kirk, D. Trentman, S. Kranz, S. Granger, J. Granger, R. Alonzi,

R. Fredrick, J. Alburty, D. Reuss

Measurers L. Robinson, S. Kranz, S. Granger, J. Granger, R. Alonzi, R. Fredrick,

M. Kirk, J. Alburty

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1996 TT₃₈, 2, 1, 0; 2000 DO₃, 3, 1, 0; 2000 DD₁₆, 3, 1, 0; 2000 EW₈₅, 3, 1, 0; 2000 EF₁₀₄, 3, 1, 0; 2000 FL₁₀, 5, 1, 0; 2000 FO₁₀, 3, 1, 0; 2000 GU₁₂₇, 5, 1, 0; (3552), 3, 1, 0; (4055), 8, 1, 0; [38, 10, 0*, 2000/03/26–2000/04/13]

651 Grasslands Observatory, Tucson

J. E. McGaha, 5100 Sabino Foothills, Tucson, AZ 85750, U.S.A.

[jmcgaha@azstarnet.com]

0.62-m $f/5.1$ Newtonian + CCD

GSC-1.1

1998 QL₃₈, 3, 1, 0; 1998 SC₁₄₄, 3, 1, 0; 1998 VS₄, 3, 1, 0; 2000 DA₃₄, 3, 1, 0; 2000 DV₁₁₀, 3, 1, 0; 2000 EU₁₀₆, 3, 1, 0; 2000 EV₁₀₆, 3, 1, 0; 2000 EW₁₀₆, 3, 1, 0; 2000 EX₁₀₆, 3, 1, 0; 2000 EY₁₀₆, 3, 1, 0; 2000 EA₁₀₇, 3, 1, 0; 2000 EZ₁₄₈, 3, 1, 0; 2000 FK₁₀, 3, 1, 0; 2000 FQ₅₃, 3, 1, 0; 2000 GA₂, 3, 1, 0; 2000 GB₂, 3, 1, 0; 2000 GC₂, 3, 1, 0; [51, 17, 0*, 1999/02/07–2000/04/03]

652 Sandringham, Calgary

B. Yeung, 139 Sandringham Place NW, Calgary, Alberta T3K 3V8, Canada

[cyber.bill@sprynet.com]

0.35-m $f/7$ Schmidt-Cassegrain + CCD

2000 DF₁, 2, 1, 0; 2000 DG₁, 2, 1, 0; 2000 DH₁, 2, 1, 0; 2000 DQ₈, 3, 1, 0; 2000 DR₈, 2, 1, 0; [11, 5, 0*, 2000/02/17–2000/03/27]

658 Dominion Astrophysical Observatory, Victoria

D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 3055, Victoria, BC

V8W 3P6, Canada [balam@beluga.phys.uvic.ca]

Observers D. D. Balam, P. Somers, R. L. Hawkes

1.82-m Plaskett telescope + CCD

USNO-A2.0

2000 DH₈, 3, 1, 0; 2000 DP₁₀₇, 3, 1, 0; 2000 EH₂₆, 6, 2, 5; 2000 EJ₂₆, 3, 1, 0; 2000 EB₁₀₇, 3, 1, 0; 2000 FR, 2, 1, 0; 2000 FK₈ *, 6, 2, 1; 2000 FM₈, 3, 1, 0; 2000 FK₁₀, 3, 1, 0; 2000 FL₁₀, 3, 1, 0; 2000 FP₁₀, 3, 1, 0; [38, 11, 1*, 2000/03/23–2000/03/31]

670 Camarillo

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010, U.S.A.

[johnerogers@csi.com]

0.30-m $f/6.7$ Helin Telescope + CCD

GSC-1.1

1994 QC, 3, 1, 0; 1999 HF₁, 3, 1, 0; 1999 NC₄₃, 2, 1, 0; 1999 VS₆, 2, 1, 0; 2000 BG₁₉, 4, 2, 18; 2000 DM₈, 1, 1, 0; 2000 ES₇₀, 5, 3, 11; 2000 EV₇₀, 2, 1, 0; 2000 EW₇₀, 3, 1, 0; 2000 ED₁₀₄, 5, 2, 2; 2000 EE₁₀₄, 15, 6, 19; 2000 EX₁₀₆, 8, 3, 5; 2000 EZ₁₀₆, 3, 1, 0; 2000 EB₁₀₇, 5, 3, 10; 2000 EZ₁₄₈, 5, 3, 7; 2000 FE₁, 3, 1, 0; 2000 FL₁₀, 8, 3, 9; 2000 FN₁₀, 4, 2, 1; 2000 FO₁₀, 9, 4, 10; 2000 GC₂, 2, 1, 0; 2000 GE₂, 4, 2, 1; 2000 GV₁₂₇, 3, 1, 0; [99, 22, 0*, 2000/03/18–2000/04/11]

673 Table Mountain Observatory

W. M. Owen, Jr., Jet Propulsion Laboratory 301-150, 4800 Oak Grove Drive,

Pasadena, CA 91109-8099, U.S.A. [wmo@wansor.jpl.nasa.gov] (1)

M. D. Hicks, Jet Propulsion Laboratory, MS 183-501, 4800 Oak Grove Drive,

Pasadena, CA 91109, U.S.A. [hicksm@scn1.jpl.nasa.gov] (4)

Observers M. Hicks, W. M. Owen Jr, D. Deaver, R. Martinez

Measurers W. M. Owen, Jr., M. Hicks

0.61-m $f/16$ reflector + CCD

ACT

{1} (6), 3, 1, 0; (10), 3, 1, 0; (241), 3, 1, 0; (590), 3, 1, 0; (624), 4, 1, 0; (690), 4, 1, 0; (859), 3, 1, 0; (3946), 4, 1, 0; [27, 8, 0*, 2000/04/09]

{4} 2000 EZ₁₄₈, 3, 1, 0; 2000 GC₂, 5, 2, 2; 2000 GD₂, 5, 2, 2; 2000 GE₂, 5, 2, 2; 2000 GG₂, 3, 1, 0; 2000 GP₈₂, 2, 1, 0; 2000 GQ₁₂₇, 3, 1, 0; 2000 GR₁₂₇, 3, 1, 0; 2000 GX₁₂₇, 3, 1, 0; 2000 GM₁₄₆, 3, 1, 0; 2000 GR₁₄₆, 3, 1, 0; 2000 GS₁₄₆, 3, 1, 0; [41, 12, 0*, 2000/04/04–2000/04/15]

675 Palomar

A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [boattini@ias.rm.cnr.it] (1)

G. W. Billings, 2320 Cherokee Dr NW, Calgary, Alberta T2L 0X7, Canada

[obs681@telusplanet.net] (1)

- R. Di Luca, Via San Vittore 44, I-40136 Bologna, Italy
[diluca@astbo4.bo.astro.it] (1)
- E. F. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A.
[efh@alps.jpl.nasa.gov] (2)
- C. S. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A.
[cshoemaker@flagmail.wr.usgs.gov] (3)
- C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The Netherlands [vanhouten@rulh11.leidenuniv.nl] (4)
- A. Gnädig, c/o Archenholt-Sternwarte, Alt-Treptow 1, D-12435 Berlin, Germany
[doppler@mind.de] (5)
- E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [elgb@lowell.edu] (6)

9 = 6 + 3

- Observers T. Gehrels (4, L), E. F. Helin (2, S), K. Lawrence (2, S),
C. S. Shoemaker (3, S), E. M. Shoemaker (3, S)
- Measurers A. Boattini (1), G. Forti (1), M. Tombelli (1), L. Tesi (1),
G. W. Billings (1), A. Lowe (1), R. Di Luca (1) A. Gnädig (5),
K. Lawrence (2), B. A. Skiff (6), C. J. van Houten (4), I. van Houten-
Groeneveld (4), A. Wisse (4)

1.2-m Oschin Schmidt (L), 0.46-m Schmidt (S)

{1} 1980 RC, 2, 1, 0; 1988 PA, 2, 1, 0; 1997 DW, 2, 1, 0; 1997 MG, 2, 1, 0; 1997 ST₁₇, 2, 1, 0;
1997 YM₃, 2, 1, 0; 1998 OK, 2, 1, 0; 1998 OD₁, 2, 1, 0; 1999 RD₃₂, 2, 1, 0; 1999 XA₁₄₃, 2, 1, 0;
1999 YT, 2, 1, 0; 2000 DH₈, 2, 1, 0; (13405), 4, 2, 78; [28, 13, 0*, 1953/01/09–1997/11/06]

{2} 1989 SP₉, 2, 1, 0; 1998 SZ₂₄, 2, 1, 0; 1998 UC₄₁, 4, 2, 2; 1999 XK₁₀₅, 2, 1, 0; (13844), 4, 1, 0;
[14, 5, 0*, 1986/02/07–1994/10/31]

{3} 1999 XM₁₀₀, 2, 1, 0; 2000 CO₅₁, 2, 1, 0; [4, 2, 0*, 1990/01/29–1992/08/24]

{4} 2065 P-L *, 8, 8, 32; 2114 P-L *, 7, 7, 31; 2125 P-L *, 6, 6, 32; 2184 P-L *, 4, 4, 32; 2598 P-L *,
7, 7, 32; 2662 P-L *, 5, 3, 4; 2706 P-L *, 7, 7, 32; 2708 P-L *, 7, 7, 32; 2772 P-L *, 7, 7, 32;
2862 P-L *, 6, 3, 4; 3077 P-L *, 4, 4, 4; 4124 P-L *, 8, 8, 32; 4154 P-L *, 7, 4, 4; 4188 P-L *, 7, 4,
4; 4261 P-L *, 4, 4, 4; 4281 P-L *, 13, 5, 4; 4507 P-L *, 6, 3, 4; 4541 P-L *, 7, 7, 32; 4629 P-L *, 7,
7, 32; 4733 P-L *, 7, 4, 4; 4808 P-L *, 7, 4, 4; 6033 P-L *, 8, 8, 32; 6181 P-L *, 3, 3, 2; 6190 P-L *,
7, 7, 32; 6267 P-L *, 8, 4, 4; 6346 P-L *, 5, 5, 32; 6601 P-L *, 8, 8, 32; 6762 P-L *, 7, 4, 4;
7587 P-L *, 4, 4, 9; 7605 P-L *, 5, 5, 32; 7608 P-L *, 4, 4, 9; 7627 P-L *, 3, 3, 4; 9555 P-L *, 3, 3,
9; 9607 P-L *, 5, 5, 28; 1046 T-1 *, 5, 4, 3; 1052 T-1 *, 5, 4, 3; 1071 T-1 *, 4, 3, 2; 1131 T-1 *, 6, 5,
9; 1275 T-1 *, 12, 8, 51; 1294 T-1 *, 8, 4, 8; 2039 T-1 *, 5, 4, 3; 2044 T-1 *, 4, 3, 2; 2055 T-1 *, 5,
4, 3; 3232 T-1 *, 7, 5, 23; 4075 T-1 *, 7, 6, 51; 4205 T-1 *, 5, 4, 9; 4242 T-1 *, 7, 5, 23; 4281 T-1 *,
9, 7, 51; 4329 T-1 *, 9, 7, 51; 1026 T-2 *, 13, 7, 15; 1200 T-2 *, 14, 7, 16; 1354 T-2 *, 27, 7, 16;
1441 T-2 *, 10, 5, 15; 1609 T-2 *, 7, 4, 6; 2157 T-2 *, 29, 8, 16; 2208 T-2 *, 14, 8, 16; 2247 T-2 *,
15, 8, 16; 2265 T-2 *, 14, 8, 16; 2270 T-2 *, 11, 6, 15; 2279 T-2 *, 15, 8, 16; 3028 T-2 *, 15, 8, 16;
3083 T-2 *, 26, 8, 16; 3286 T-2 *, 15, 8, 16; 3333 T-2 *, 7, 4, 6; 3361 T-2 *, 7, 4, 6; 4137 T-2 *,
15, 8, 16; 4220 T-2 *, 15, 8, 16; 5119 T-2 *, 15, 8, 16; 1209 T-3 *, 6, 3, 6; 1219 T-3 *, 14, 4, 6;
2254 T-3 *, 17, 7, 15; 2465 T-3 *, 8, 4, 6; 2666 T-3 *, 10, 3, 5; 3300 T-3 *, 22, 6, 14; 3403 T-3 *,
13, 7, 15; 3497 T-3 *, 11, 6, 14; 3527 T-3 *, 12, 6, 14; 4241 T-3 *, 20, 6, 11; 4352 T-3 *, 8, 4, 6;
4356 T-3 *, 15, 5, 10; 5014 T-3 *, 10, 5, 10; 5050 T-3 *, 6, 3, 5; 5075 T-3 *, 10, 5, 10; 5107 T-3 *,
12, 5, 10; 5602 T-3 *, 10, 5, 10; [797, 85, 85*, 1960/09/24–1977/10/22]

{5} 2000 AF₆, 2, 1, 0; [2, 1, 0*, 1991/01/15]

{6} 2000 DK₇₉, 2, 1, 0; [2, 1, 0*, 1986/04/09]

{9} 1984 SM₅, 1, 1, 0; 1991 PH₁₆, 2, 1, 0; 1993 FM₈, 2, 1, 0; 1998 SN₁₂₅, 1, 1, 0; 1998 UL₆, 2, 1,
0; 1999 NC₆₀, 2, 1, 0; 1999 RF₁₇₉, 2, 1, 0; 2000 AM₂, 2, 1, 0; 2000 AC₉₈, 2, 1, 0; 2000 CY₁₀₁, 2,
1, 0; 2000 EF₂₁, 2, 1, 0; 2000 EV₂₆, 2, 1, 0; 2000 ER₃₅, 2, 1, 0; 2000 EP₃₆, 2, 1, 0; 2000 ED₄₇,
2, 1, 0; 2000 EX₁₀₈, 2, 1, 0; 4329 T-1, 1, 1, 0; [31, 17, 0*, 1988/11/09–1994/09/12]

678 Fountain Hills

- C. W. Juels, P.O. Box 19960, Fountain Hills, AZ 85269, U.S.A.
[cwjuels@futureone.com]

0.32-m $f/5.5$ reflector + CCD
GSC-1.1

2000 EE₁₄₈, 4, 2, 1; 2000 GY₁ *, 7, 3, 3; 2000 GZ₁ *, 6, 3, 3; 2000 GC₄ *, 4, 2, 2; 2000 GD₄ *, 4,
2, 2; 2000 GP₈₂, 4, 1, 0; 2000 GR₉₆, 4, 2, 1; 2000 GV₉₆, 4, 2, 1; 2000 GJ₉₈, 4, 2, 1; 2000 GA₁₀₆,
5, 2, 1; 2000 GR₁₀₇, 4, 2, 1; 2000 GV₁₀₇, 4, 2, 1; 2000 GW₁₀₇, 4, 2, 1; 2000 GA₁₀₈, 4, 2,
1; 2000 GJ₁₀₈, 4, 2, 1; 2000 GT₁₂₂ *, 4, 2, 1; 2000 GU₁₂₂ *, 4, 2, 1; 2000 GV₁₂₂ *, 4, 2, 1;
2000 GW₁₂₂ *, 4, 2, 1; 2000 GX₁₂₂ *, 4, 2, 1; 2000 GU₁₂₇, 6, 1, 0; 2000 GV₁₂₇, 3, 1, 0; [95, 22,
9*, 2000/04/04–2000/04/12]

682 Kanab

- E. Sheridan, 7205 Sunflower Lane, Kanab, UT 84741, U.S.A.
[mened@expressweb.com]

0.25-m $f/4$ Schmidt-Cassegrain + CCD
GSC
(14249), 3, 1, 0; [3, 1, 0*, 2000/02/01]

683 Goodricke-Pigott Observatory, Tucson

- R. A. Tucker, 5500 West Nebraska Street, Tucson, AZ 85746, U.S.A.
[tucker@noao.edu]

0.35-m $f/11$ Schmidt-Cassegrain + CCD
GSC

1997 LQ₂, 6, 2, 3; 1998 XG₅, 6, 2, 1; 2000 GU₈₇, 12, 3, 4; 2000 GV₈₇, 6, 2, 3; 2000 GW₈₇, 9, 2,
1; [39, 5, 0*, 2000/04/08–2000/04/13]

684 Prescott

- P. G. Comba, 1411 Galaxy Lane, Prescott, AZ 86303, U.S.A.
[comba@northlink.com]

0.46-m $f/4.5$ reflector + CCD
GSC

1981 WJ₉, 2, 1, 0; 1988 UV, 2, 1, 0; 1993 RF₁₅, 2, 1, 0; 1996 EJ₁, 5, 2, 1; 1997 JT₃, 4, 2, 1;
1997 JB₈, 4, 2, 1; 1997 PJ₂, 5, 2, 1; 1997 UL₁, 4, 2, 1; 1997 UG₅, 6, 2, 1; 1997 UY₁₀, 3, 2, 1;
1997 VN₁, 2, 1, 0; 1997 VY₁, 5, 2, 1; 1997 WC₂, 4, 2, 1; 1998 RA₅₈, 2, 1, 0; 1998 SG₁, 2, 1, 0;
1998 SQ₆₃, 4, 2, 1; 1998 VN₆, 5, 2, 1; 1998 WJ₃, 3, 2, 3; 1998 YT₅, 4, 2, 1; 1998 YJ₁₀, 4, 2, 1;
1999 CH₆₀, 2, 1, 0; 2000 CS, 3, 1, 0; 2000 CF₄₁, 2, 1, 0; 2000 DQ₂₃, 2, 1, 0; 2000 DL₂₄, 2, 1, 0;
2000 DQ₉₂, 4, 2, 3; 2000 ED₃₂, 4, 2, 1; 2000 EC₄₄, 5, 2, 1; 2000 EM₅₀, 4, 2, 1; 2000 EQ₆₈, 3, 1,
0; 2000 EW₆₈, 4, 2, 1; 2000 EJ₇₀, 5, 2, 3; 2000 ES₇₀, 5, 1, 0; 2000 FA, 4, 2, 1; 2000 FC *, 8, 3, 2;
2000 FD *, 5, 2, 1; 2000 FF *, 5, 2, 1; 2000 FG *, 5, 2, 1; 2000 FH *, 6, 2, 1; 2000 FJ *, 4, 2, 1;
2000 FK *, 5, 2, 1; 2000 FV *, 6, 3, 4; 2000 FW *, 4, 2, 1; 2000 FX *, 6, 3, 4; 2000 FY *, 4, 2, 1;
2000 FZ *, 6, 2, 1; 2000 FA₁ *, 6, 2, 1; 2000 FY₇ *, 5, 2, 1; 2000 FZ₇ *, 4, 2, 1; 2000 FT₁₀ *, 4,
2, 3; 2000 GJ *, 4, 2, 1; 2000 GK *, 4, 2, 1; 2000 GL *, 5, 2, 1; 2000 GM *, 5, 2, 1; 2000 GN *,
4, 2, 1; 2000 GN₁ *, 4, 2, 1; 2000 GO₁ *, 4, 2, 1; 2000 GP₁ *, 4, 2, 1; 2000 GQ₁ *, 5, 2, 1;
2000 GR₁ *, 5, 2, 1; 2000 GS₁ *, 5, 2, 1; 2000 GH₂ *, 4, 2, 1; 2000 GJ₂ *, 5, 2, 1; 2000 GK₂ *, 4,
2, 1; 2000 GY₃ *, 4, 2, 1; 2000 GZ₃ *, 4, 2, 1; 2000 GA₄ *, 4, 2, 1; 2000 GK₆₇, 5, 2, 1; 2000 GJ₇₇,
4, 2, 1; 2000 GN₈₁, 5, 2, 1; 2000 GL₈₂ *, 5, 2, 3; 2000 GQ₈₂ *, 4, 2, 1; 2000 GW₈₂ *, 4, 2, 1;
2000 GC₁₂₃ *, 4, 2, 1; 2000 GD₁₂₃ *, 5, 2, 1; 2000 GE₁₂₃ *, 5, 2, 1; 2000 GF₁₂₃ *, 4, 2, 1;
2000 GG₁₂₃ *, 4, 2, 1; 2000 GV₁₃₂ *, 4, 2, 1; 2000 GW₁₃₂ *, 4, 2, 1; 2000 GA₁₃₃ *, 9, 3, 2;
2000 GB₁₃₃ *, 9, 3, 2; 2000 GL₁₃₇ *, 7, 2, 1; 4105 T-1, 4, 2, 1; (204), 4, 2, 1; (9962), 2, 1, 0; [370,
86, 46*, 1998/11/17–2000/04/15]

688 Lowell Observatory, Anderson Mesa Station

- M. W. Buie, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,
U.S.A. [buie@lowell.edu] (1)
- G. A. Snyder, Gettysburg College, 300 N. Washington St., Gettysburg, PA 17325,
U.S.A. [gsnyder@gettysburg.edu] (2)
- E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,
U.S.A. [elgb@lowell.edu] (4)
- L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff,
AZ 86001, U.S.A. [lhw@lowell.edu] (5)
- Observers M. W. Buie, B. A. Skiff, L. H. Wasserman, E. Anderson, J. Mattox,
G. W. Lockwood

Measurers M. W. Buie, B. A. Skiff, L. H. Wasserman, G. A. Snyder
1.07-m reflector + CCD, 1.8-m reflector + CCD
USNO-A2.0

{1} 1996 GC₂, 2, 1, 0; 1996 HW₈, 2, 1, 0; 1997 RD₁₃, 2, 1, 0; [6, 3, 0*, 1997/07/08–1997/12/29]

{2} 1992 EE₈, 2, 1, 0; 2000 EK₄₇, 9, 3, 3; [11, 2, 0*, 2000/03/11–2000/03/14]

{4} 1997 SE₇, 2, 1, 0; 2000 DA₆₉, 2, 1, 0; 2000 EZ₁₀₆, 6, 2, 7; 2000 FJ₃₀, 2, 1, 0; [12, 4, 0*, 1997/08/01–2000/03/26]

{5} 1978 SD₃, 2, 1, 0; 1988 VP₃, 4, 2, 1; 1991 SM₂, 2, 1, 0; 1992 EK₁₄, 2, 1, 0; 1993 FO₃₁, 2, 1, 0; 1993 GA₁, 2, 1, 0; 1994 VP, 4, 2, 1; 1995 YS, 2, 1, 0; 1997 JB₈, 2, 1, 0; 1997 MP₃, 2, 1, 0; 1997 SQ₉, 2, 1, 0; 1998 BU₄₈, 2, 1, 0; 1998 QS₄₈, 2, 1, 0; 1998 QR₅₈, 2, 1, 0; 1998 RW₅₅, 2, 1, 0; 1998 RJ₅₆, 2, 1, 0; 1998 SA₂₂, 2, 1, 0; 1998 SJ₅₈, 2, 1, 0; 1998 SM₆₃, 2, 1, 0; 1998 SZ₁₄₅, 2, 1, 0; 1998 US₆, 2, 1, 0; 1999 BL₂₈, 2, 1, 0; 1999 CF₁, 2, 1, 0; 1999 CU₇₀, 2, 1, 0; 1999 JV₆, 2, 1, 0; 2000 AX₁₉₄, 2, 1, 0; 2000 AQ₂₂₇, 2, 1, 0; 2000 CU, 2, 1, 0; 2000 CB₅₄, 2, 1, 0; 2000 CH₅₆, 2, 1, 0; 2000 CZ₆₁, 2, 1, 0; 2000 CG₇₈, 2, 1, 0; 2000 CL₈₄, 2, 1, 0; 2000 CY₈₆, 2, 1, 0; 2000 DO₃, 2, 1, 0; 2000 DZ₁₂, 2, 1, 0; 2000 DA₁₃, 2, 1, 0; 2000 DL₁₆, 2, 1, 0; 2000 DR₁₆, 2, 1, 0; 2000 DS₂₉, 2, 1, 0; 2000 DB₃₀, 2, 1, 0; 2000 DB₃₄, 2, 1, 0; 2000 DC₃₇, 2, 1, 0; 2000 DX₃₈, 2, 1, 0; 2000 DS₃₉, 2, 1, 0; 2000 DJ₄₀, 2, 1, 0; 2000 DW₄₃, 2, 1, 0; 2000 DV₄₄, 2, 1, 0; 2000 DM₅₇, 2, 1, 0; 2000 DU₅₈, 2, 1, 0; 2000 DS₆₃, 2, 1, 0; 2000 DY₈₅, 2, 1, 0; 2000 DQ₉₈, 2, 1, 0; 2000 EN₁₂, 2, 1, 0; 2000 EN₁₅, 2, 1, 0; 2000 EK₁₆, 2, 1, 0; 2000 EO₂₄, 2, 1, 0; 2000 EX₂₄, 2, 1, 0; 2000 EB₃₂, 2, 1, 0; 2000 EO₃₈, 2, 1, 0; 2000 EA₄₁, 2, 1, 0; 2000 EB₄₂, 2, 1, 0; 2000 EQ₄₂, 2, 1, 0; 2000 EF₄₅, 2, 1, 0; 2000 EZ₄₅, 2, 1, 0; 2000 EZ₄₇, 2, 1, 0; 2000 EQ₄₈, 2, 1, 0; 2000 EE₄₉, 2, 1, 0; 2000 ER₄₉, 2, 1, 0; 2000 EK₅₉, 2, 1, 0; 2000 EZ₆₁, 2, 1, 0; 2000 EH₆₅, 2, 1, 0; 2000 EB₆₇, 2, 1, 0; 2000 ET₆₈, 2, 1, 0; 2000 EA₇₆, 2, 1, 0; 2000 EA₇₈, 2, 1, 0; 2000 EZ₇₉, 2, 1, 0; 2000 EP₉₆, 2, 1, 0; 2000 EF₁₀₄, 2, 1, 0; 2000 EJ₁₀₆, 2, 1, 0; 2000 EL₁₄₀, 2, 1, 0; 2000 EN₁₄₂, 2, 1, 0; 2000 EP₁₄₂, 2, 1, 0; 2000 EQ₁₄₂ *, 2, 1, 0; 2000 ED₁₄₄ *, 2, 1, 0; 2000 EH₁₄₅, 2, 1, 0; 2000 FE₄, 2, 1, 0; 2000 FW₁₀, 2, 1, 0; 2000 FK₁₄, 2, 1, 0; 2000 FE₁₆, 2, 1, 0; 2000 FX₂₀, 2, 1, 0; 2000 GA₂, 2, 1, 0; 2000 GE₂, 2, 1, 0; 2000 GF₂, 2, 1, 0; 2000 GG₂, 2, 1, 0; 2000 GU₃, 2, 1, 0; 2000 GQ₁₉, 2, 1, 0; 2000 GR₁₉, 2, 1, 0; 2000 GR₄₀, 2, 1, 0; 2000 GY₄₈, 2, 1, 0; 2000 GA₄₉, 2, 1, 0; 2000 GP₈₂, 2, 1, 0; 2000 GR₈₂, 2, 1, 0; 2000 GE₁₁₃, 2, 1, 0; 2000 GQ₁₂₄, 2, 1, 0; 2000 GR₁₃₇ *, 4, 2, 1; 2000 GX₁₄₀ *, 2, 1, 0; 2237 T-2, 2, 1, 0; (2303), 2, 1, 0; (2358), 2, 1, 0; (6273), 2, 1, 0; (7837), 2, 1, 0; (9581), 2, 1, 0; (9774), 2, 1, 0; (10132), 2, 1, 0; (12806), 2, 1, 0; (13605), 2, 1, 0; (13898), 2, 1, 0; (14122), 2, 1, 0; (14303), 2, 1, 0; [246, 120, 4*, 2000/03/03–2000/04/05]

689 U.S. Naval Observatory, Flagstaff Station

R. C. Stone, U.S. Naval Observatory, Flagstaff Station, P.O. Box 1149, Flagstaff
AZ 86002-1149 [rcs@nobs.navy.mil] (2)

C. B. Luginbuhl, U.S. Naval Observatory Flagstaff Station, P.O. Box 1149,
Flagstaff AZ 86002-1149 [cluginbuhl@nobs.navy.mil] (3)

Observers C. Luginbuhl, R. C. Stone

1.55-m astrometric reflector + CCD

USNO-A2.0, ACT

{2} (1), 39, 38, 463; (2), 50, 50, 531; (3), 55, 55, 528; (4), 58, 58, 477; (5), 24, 24, 152; (6), 71, 71, 631; (7), 55, 55, 580; (8), 48, 48, 147; (9), 62, 62, 568; (10), 75, 75, 514; (11), 22, 22, 526; (12), 56, 56, 539; (13), 77, 77, 559; (14), 51, 51, 515; (15), 45, 45, 492; (16), 69, 69, 620; (17), 50, 50, 146; (18), 48, 48, 616; (19), 32, 32, 140; (20), 23, 23, 152; (21), 56, 56, 491; (22), 30, 30, 489; (23), 33, 33, 583; (24), 60, 60, 606; (25), 49, 49, 705; (26), 22, 22, 447; (27), 38, 38, 503; (28), 41, 41, 617; (29), 46, 46, 557; (30), 31, 31, 475; (31), 27, 27, 143; (32), 36, 36, 649; (33), 28, 27, 455; (34), 46, 46, 483; (35), 38, 37, 465; (36), 41, 41, 469; (37), 43, 43, 149; (38), 57, 57, 589; (39), 46, 44, 461; (40), 33, 33, 516; (41), 57, 57, 521; (42), 42, 41, 454; (43), 51, 51, 553; (44), 38, 38, 151; (45), 59, 59, 769; (46), 56, 55, 476; (47), 49, 49, 628; (48), 37, 37, 592; (49), 52, 52, 553; (50), 73, 73, 580; (51), 39, 37, 484; (52), 47, 47, 764; (53), 41, 41, 543; (54), 19, 19, 137; (55), 34, 34, 489; (56), 33, 33, 535; (57), 64, 64, 596; (58), 60, 60, 623; (59), 59, 59, 590; (60), 43, 43, 154; (61), 51, 51, 650; (62), 41, 41, 483; (63), 38, 38, 619; (64), 55, 55, 599; (65), 64, 64, 775; (66), 20, 20, 468; (67), 37, 37, 435; (68), 14, 14, 131; (69), 65, 65, 467; (70), 40, 40, 443; (71), 61, 60, 557; (72), 48, 48, 613; (73), 45, 45, 576; (74), 26, 26, 545; (75), 29, 29, 423; (76), 54, 53, 568; (77), 28, 28, 149; (78), 15, 15, 142; (79), 20, 20, 484; (80), 21, 21, 469; (81), 54, 54, 615; (82), 16, 16, 158; (83), 64, 64, 659; (84), 31, 31, 538; (85), 48, 48, 673; (86), 25, 25, 465; (87), 62, 62, 492; (88), 55, 55, 472; (89), 46, 45, 537; (90), 37, 37, 511; (91), 51, 51, 625; (92), 53, 53, 602; (93), 34, 34, 557; (94), 27, 27, 470; (95), 39, 39, 554; (96), 58, 58, 545; (97), 20, 20, 138; (98), 26, 26, 468; (99), 39, 39, 636; (100), 58, 58, 652; (101), 15, 14, 102; (102), 41, 41, 555; (103), 28, 28, 147; (104), 23, 23, 138; (105), 53, 53, 632; (106), 70, 69, 489; (107), 44, 44, 495; (108), 44, 43, 519; (109), 23, 23, 152; (110), 44, 42, 523; (111), 39, 39, 540; (112), 59, 59, 681; (113), 32, 32, 506; (114), 46, 46, 549; (115), 36, 36, 549;

(116), 41, 41, 555; (117), 35, 35, 491; (118), 39, 38, 617; (119), 43, 41, 493; (120), 36, 36, 475; (121), 39, 39, 467; (122), 58, 56, 603; (123), 26, 26, 495; (124), 48, 48, 484; (125), 35, 35, 661; (126), 35, 35, 454; (127), 31, 31, 579; (128), 37, 37, 636; (129), 29, 29, 142; (130), 35, 35, 777; (131), 35, 35, 661; (132), 84, 84, 490; (133), 22, 22, 423; (134), 32, 32, 516; (135), 24, 24, 469; (136), 30, 30, 557; (137), 27, 27, 425; (138), 29, 29, 142; (139), 49, 49, 575; (140), 45, 43, 536; (141), 46, 46, 662; (142), 31, 30, 123; (143), 24, 24, 539; (144), 20, 20, 141; (145), 64, 64, 561; (146), 31, 31, 466; (147), 34, 34, 514; (148), 39, 39, 540; (149), 25, 24, 134; (150), 43, 43, 565; (151), 41, 41, 568; (152), 17, 17, 143; (153), 38, 38, 580; (154), 46, 46, 586; (155), 29, 29, 547; (156), 28, 28, 150; (157), 29, 29, 553; (158), 40, 40, 475; (159), 45, 45, 587; (160), 41, 41, 545; (161), 30, 29, 489; (162), 42, 41, 557; (163), 23, 23, 145; (164), 31, 31, 441; (165), 66, 65, 542; (166), 29, 29, 582; (167), 44, 44, 129; (168), 37, 37, 527; (169), 50, 48, 647; (170), 29, 29, 468; (171), 24, 23, 138; (172), 31, 31, 531; (173), 50, 50, 481; (174), 56, 54, 492; (175), 44, 44, 572; (176), 46, 46, 544; (177), 17, 17, 134; (178), 18, 18, 145; (179), 42, 42, 632; (180), 34, 34, 150; (181), 32, 32, 474; (182), 36, 36, 485; (183), 32, 32, 160; (184), 38, 37, 612; (185), 43, 43, 515; (186), 43, 42, 665; (187), 31, 31, 148; (188), 36, 36, 532; (189), 20, 20, 155; (190), 26, 26, 466; (191), 45, 45, 536; (192), 84, 83, 568; (193), 64, 64, 589; (194), 42, 42, 667; (195), 58, 57, 521; (196), 34, 34, 137; (197), 34, 34, 491; (198), 46, 46, 653; (199), 47, 47, 571; (200), 21, 19, 133; (201), 43, 41, 464; (202), 39, 39, 490; (203), 23, 22, 139; (204), 34, 34, 126; (205), 42, 42, 619; (206), 27, 25, 156; (207), 30, 30, 577; (208), 28, 28, 128; (209), 16, 16, 434; (210), 38, 38, 472; (211), 63, 62, 528; (212), 49, 48, 534; (213), 26, 26, 462; (214), 23, 23, 509; (215), 14, 13, 448; (216), 52, 52, 605; (217), 24, 24, 404; (218), 51, 51, 485; (219), 56, 56, 670; (220), 18, 18, 125; (221), 39, 39, 642; (222), 33, 33, 468; (223), 35, 35, 572; (224), 35, 35, 585; (225), 18, 18, 428; (226), 60, 60, 584; (227), 53, 53, 614; (228), 20, 20, 474; (229), 17, 17, 441; (230), 39, 39, 538; (231), 29, 29, 540; (232), 46, 46, 590; (233), 42, 41, 147; (234), 32, 32, 432; (235), 38, 38, 547; (236), 36, 36, 514; (237), 38, 38, 553; (238), 51, 51, 539; (239), 23, 23, 499; (240), 33, 33, 150; (241), 22, 22, 455; (242), 45, 45, 601; (243), 32, 32, 564; (244), 28, 28, 571; (245), 46, 46, 450; (246), 31, 31, 460; (247), 22, 22, 451; (248), 44, 42, 585; (249), 50, 50, 667; (250), 33, 33, 151; (251), 52, 52, 575; (252), 23, 23, 418; (253), 13, 13, 117; (254), 14, 14, 111; (255), 41, 41, 508; (256), 23, 23, 455; (257), 38, 38, 516; (258), 20, 20, 145; (259), 58, 58, 529; (260), 30, 30, 470; (261), 27, 27, 571; (262), 12, 12, 442; (263), 59, 59, 566; (264), 54, 52, 538; (265), 23, 23, 460; (266), 39, 39, 475; (267), 52, 52, 618; (268), 43, 43, 488; (269), 33, 33, 444; (270), 28, 28, 463; (271), 18, 18, 135; (272), 24, 24, 516; (273), 11, 11, 135; (274), 26, 26, 149; (275), 37, 37, 577; (276), 44, 44, 579; (277), 39, 39, 463; (278), 58, 58, 602; (279), 29, 29, 449; (280), 31, 31, 543; (281), 25, 25, 115; (282), 25, 25, 502; (283), 41, 41, 533; (284), 49, 49, 565; (285), 44, 44, 504; (286), 47, 47, 509; (287), 25, 25, 146; (288), 23, 23, 464; (289), 30, 30, 514; (290), 23, 23, 108; (291), 19, 19, 145; (292), 38, 38, 485; (293), 34, 34, 503; (294), 26, 26, 101; (295), 41, 41, 494; (296), 15, 15, 487; (297), 34, 34, 492; (298), 53, 53, 642; (299), 26, 26, 514; (300), 48, 48, 581; (301), 24, 24, 463; (302), 25, 25, 527; (303), 40, 40, 563; (304), 13, 13, 140; (305), 33, 33, 471; (306), 25, 25, 150; (307), 33, 33, 504; (308), 33, 33, 467; (309), 26, 26, 127; (310), 39, 39, 512; (311), 23, 23, 470; (312), 46, 46, 501; (313), 31, 31, 158; (314), 29, 29, 152; (315), 32, 32, 622; (316), 71, 71, 553; (317), 47, 47, 571; (318), 41, 41, 508; (319), 27, 27, 440; (320), 17, 17, 462; (321), 47, 47, 551; (322), 38, 36, 447; (323), 20, 20, 151; (324), 70, 70, 519; (325), 33, 33, 517; (326), 47, 47, 661; (327), 32, 32, 512; (328), 65, 65, 558; (329), 48, 48, 587; (330), 23, 23, 144; (331), 50, 50, 591; (332), 28, 28, 535; (333), 27, 27, 428; (334), 55, 55, 571; (335), 34, 34, 150; (336), 19, 19, 144; (337), 44, 44, 554; (338), 19, 19, 138; (339), 24, 24, 147; (340), 17, 17, 139; (341), 20, 20, 470; (342), 54, 53, 587; (343), 23, 23, 444; (344), 21, 21, 411; (345), 36, 36, 528; (346), 57, 57, 639; (347), 56, 56, 480; (348), 53, 53, 563; (349), 49, 49, 530; (350), 30, 30, 472; (351), 36, 36, 158; (352), 36, 36, 660; (353), 18, 18, 510; (354), 62, 62, 535; (355), 22, 21, 483; (356), 29, 29, 572; (357), 17, 17, 154; (358), 34, 34, 518; (359), 53, 53, 575; (360), 50, 50, 584; (361), 55, 55, 545; (362), 44, 44, 533; (363), 38, 38, 543; (364), 30, 30, 143; (365), 62, 62, 555; (366), 35, 35, 475; (367), 20, 20, 540; (368), 26, 26, 424; (369), 25, 25, 493; (370), 27, 26, 503; (371), 45, 45, 451; (372), 21, 21, 141; (373), 43, 43, 460; (374), 47, 47, 613; (375), 49, 49, 517; (376), 31, 31, 145; (377), 52, 52, 604; (378), 55, 55, 635; (379), 38, 38, 456; (380), 25, 25, 434; (381), 60, 60, 565; (382), 13, 13, 424; (383), 32, 32, 452; (384), 22, 22, 484; (385), 34, 33, 143; (386), 55, 55, 545; (387), 28, 28, 497; (388), 36, 36, 499; (389), 21, 20, 150; (390), 51, 51, 587; (391), 21, 21, 444; (392), 23, 23, 448; (393), 26, 26, 432; (394), 40, 40, 625; (395), 26, 26, 483; (396), 43, 43, 480; (397), 28, 28, 457; (398), 34, 33, 144; (399), 68, 68, 562; (400), 26, 26, 449; (401), 20, 20, 435; (402), 50, 50, 598; (403), 30, 30, 538; (404), 41, 41, 160; (405), 39, 39, 657; (406), 21, 21, 480; (407), 29, 29, 152; (408), 24, 24, 455; (409), 36, 36, 493; (410), 40, 40, 463; (411), 45, 45, 661; (412), 34, 34, 613; (413), 27, 27, 591; (414), 55, 55, 531; (415), 37, 37, 478; (416), 45, 45, 658; (417), 25, 25, 480; (418), 29, 29, 476; (419), 25, 25, 487; (420), 35, 35, 484; (421), 12, 12, 112; (422), 49, 49, 655; (423), 47, 44, 482; (424), 16, 16, 135; (425), 31, 31, 493; (426), 14, 14, 523; (427), 27, 27, 575; (428), 25, 25, 586; (429), 42, 42, 491; (430), 19, 19, 146; (431), 23, 23, 420; (432), 50, 50, 581; (433), 47, 47, 166; (434), 36, 36, 605; (435), 28, 27, 464; (436), 19, 19, 440; (437), 35, 35, 464; (438), 31, 31, 547; (439), 45, 44, 483; (440), 17, 17, 530; (441), 25, 25, 482; (442), 27, 27, 149; (443), 40, 39, 636; (444), 26, 26, 445; (445), 24, 24, 461; (446), 25, 25, 134; (447), 45, 45, 506; (448), 52, 52, 659; (449), 21, 21, 148; (450), 38, 38, 533; (451), 42, 42, 528; (452), 27, 27, 583; (453), 30, 29, 504; (454), 35, 35, 613; (455), 31, 31, 448;

(456), 48, 47, 542; (457), 32, 32, 484; (458), 55, 55, 551; (459), 30, 30, 147; (460), 36, 35, 561; (461), 50, 50, 547; (462), 36, 36, 444; (463), 20, 20, 461; (464), 23, 23, 453; (465), 40, 39, 493; (466), 35, 35, 474; (467), 21, 21, 510; (468), 71, 71, 619; (469), 51, 51, 568; (470), 43, 43, 641; (471), 44, 44, 505; (472), 58, 58, 597; (473), 18, 18, 542; (474), 50, 50, 655; (475), 11, 11, 99; (476), 24, 24, 461; (477), 45, 45, 679; (478), 38, 38, 541; (479), 34, 34, 585; (480), 22, 22, 156; (481), 30, 30, 528; (482), 41, 41, 463; (483), 60, 60, 594; (484), 41, 41, 663; (485), 52, 52, 593; (486), 24, 24, 516; (487), 34, 34, 557; (488), 50, 50, 540; (489), 41, 41, 490; (490), 48, 48, 547; (491), 57, 57, 595; (492), 33, 33, 475; (493), 25, 25, 442; (494), 62, 62, 599; (495), 24, 24, 492; (496), 19, 19, 553; (497), 36, 36, 514; (498), 13, 13, 119; (499), 31, 31, 476; (500), 35, 35, 555; (501), 28, 28, 462; (502), 24, 24, 170; (503), 48, 48, 561; (504), 18, 18, 114; (505), 36, 35, 593; (506), 22, 22, 449; (507), 30, 30, 442; (508), 48, 48, 508; (509), 26, 26, 462; (510), 22, 22, 507; (511), 48, 48, 500; (512), 15, 15, 144; (513), 33, 33, 461; (514), 40, 40, 597; (515), 20, 19, 113; (516), 30, 30, 665; (517), 41, 41, 490; (518), 26, 26, 484; (519), 23, 23, 442; (520), 19, 19, 459; (521), 32, 32, 486; (522), 33, 33, 494; (523), 46, 46, 569; (524), 38, 38, 455; (525), 31, 31, 580; (526), 34, 34, 545; (527), 28, 28, 532; (528), 30, 30, 485; (529), 33, 33, 478; (530), 38, 38, 479; (531), 20, 20, 498; (532), 62, 62, 495; (533), 30, 30, 532; (534), 55, 55, 584; (535), 32, 32, 542; (536), 35, 35, 455; (537), 22, 22, 415; (538), 35, 35, 603; (539), 56, 56, 587; (540), 19, 19, 146; (541), 73, 72, 604; (542), 35, 35, 535; (543), 16, 16, 437; (544), 27, 27, 491; (545), 36, 36, 488; (546), 22, 22, 512; (547), 28, 28, 456; (548), 25, 25, 569; (549), 21, 21, 487; (550), 37, 37, 599; (551), 33, 33, 507; (552), 45, 45, 525; (553), 15, 15, 130; (554), 46, 46, 592; (555), 41, 41, 533; (556), 23, 23, 522; (557), 32, 32, 552; (558), 27, 27, 147; (559), 26, 26, 506; (560), 38, 38, 555; (561), 21, 21, 498; (562), 25, 25, 466; (563), 37, 37, 481; (564), 19, 19, 425; (565), 28, 28, 502; (566), 47, 47, 587; (567), 24, 24, 483; (568), 48, 48, 544; (569), 21, 21, 476; (570), 40, 40, 485; (571), 26, 26, 592; (572), 27, 27, 500; (573), 43, 43, 630; (574), 22, 22, 505; (575), 42, 42, 677; (576), 49, 49, 502; (577), 40, 39, 553; (578), 26, 26, 459; (579), 71, 70, 554; (580), 30, 28, 116; (581), 19, 19, 143; (582), 20, 20, 153; (583), 22, 21, 505; (584), 29, 29, 490; (585), 41, 41, 548; (586), 51, 50, 577; (587), 19, 19, 104; (588), 35, 35, 468; (589), 38, 38, 462; (590), 25, 25, 156; (591), 34, 34, 595; (592), 43, 42, 517; (593), 23, 23, 131; (594), 7, 7, 82; (595), 51, 51, 632; (596), 41, 41, 495; (597), 36, 36, 610; (598), 29, 29, 510; (599), 43, 43, 651; (600), 36, 36, 503; (601), 25, 25, 436; (602), 27, 27, 424; (603), 16, 16, 120; (604), 48, 48, 571; (605), 27, 27, 149; (606), 20, 20, 137; (607), 30, 30, 475; (608), 24, 24, 479; (609), 43, 43, 527; (610), 18, 18, 129; (611), 56, 56, 546; (612), 11, 11, 448; (613), 28, 28, 484; (614), 36, 36, 550; (615), 42, 41, 579; (616), 42, 42, 597; (617), 37, 37, 563; (618), 47, 47, 442; (619), 38, 38, 466; (620), 11, 11, 98; (621), 41, 41, 528; (622), 40, 40, 488; (623), 38, 38, 494; (624), 43, 43, 452; (625), 57, 57, 661; (626), 21, 21, 463; (627), 50, 50, 540; (628), 25, 24, 499; (629), 43, 43, 543; (630), 40, 40, 528; (631), 35, 35, 460; (632), 50, 50, 642; (633), 31, 30, 459; (634), 51, 51, 588; (635), 37, 37, 460; (636), 64, 64, 624; (637), 20, 20, 538; (638), 55, 55, 548; (639), 31, 31, 146; (640), 47, 46, 461; (641), 12, 12, 489; (642), 33, 33, 507; (643), 47, 47, 550; (644), 50, 49, 660; (645), 37, 37, 510; (646), 33, 32, 627; (647), 38, 38, 590; (648), 42, 42, 497; (649), 6, 6, 28; (650), 22, 22, 590; (651), 29, 29, 469; (652), 21, 21, 131; (653), 29, 29, 502; (654), 24, 24, 161; (655), 37, 37, 591; (656), 28, 28, 496; (657), 36, 36, 553; (658), 44, 44, 466; (659), 28, 28, 435; (660), 38, 38, 570; (661), 55, 55, 600; (662), 43, 43, 670; (663), 30, 30, 543; (664), 39, 39, 654; (665), 46, 46, 497; (666), 32, 32, 502; (667), 49, 49, 569; (668), 19, 19, 97; (669), 36, 36, 456; (670), 54, 54, 433; (671), 34, 34, 484; (672), 28, 28, 510; (673), 48, 48, 493; (674), 40, 39, 466; (675), 35, 35, 538; (676), 18, 18, 427; (677), 47, 47, 532; (678), 42, 42, 546; (679), 43, 43, 629; (680), 48, 47, 611; (681), 35, 35, 481; (682), 11, 11, 76; (683), 34, 34, 518; (684), 15, 15, 141; (685), 24, 24, 517; (686), 14, 14, 145; (687), 39, 39, 615; (688), 41, 41, 491; (689), 16, 16, 120; (690), 48, 48, 552; (691), 34, 34, 138; (692), 33, 33, 552; (693), 27, 27, 572; (694), 26, 26, 453; (695), 45, 44, 474; (696), 49, 49, 559; (697), 28, 28, 466; (698), 37, 37, 627; (699), 45, 45, 668; (700), 33, 31, 144; (701), 43, 43, 589; (702), 30, 30, 149; (703), 20, 20, 516; (704), 37, 37, 447; (705), 32, 32, 604; (706), 21, 21, 469; (707), 22, 22, 513; (708), 27, 27, 495; (709), 55, 55, 539; (710), 17, 16, 117; (711), 36, 36, 663; (712), 31, 31, 494; (713), 30, 30, 444; (714), 44, 44, 155; (715), 25, 24, 527; (716), 16, 16, 146; (717), 22, 22, 465; (718), 34, 34, 428; (720), 72, 72, 612; (721), 33, 33, 513; (722), 19, 19, 138; (723), 44, 44, 529; (725), 31, 31, 142; (726), 23, 23, 136; (727), 40, 40, 556; (728), 16, 16, 492; (729), 28, 28, 520; (730), 11, 11, 80; (731), 19, 19, 139; (732), 26, 26, 483; (733), 37, 37, 559; (734), 25, 25, 469; (735), 26, 26, 147; (736), 18, 18, 122; (737), 47, 47, 677; (738), 27, 27, 503; (739), 22, 22, 159; (740), 36, 35, 511; (741), 22, 22, 498; (742), 32, 32, 631; (743), 37, 37, 600; (744), 32, 32, 494; (745), 35, 35, 511; (746), 32, 32, 454; (747), 66, 66, 620; (748), 32, 32, 469; (749), 32, 32, 482; (750), 34, 34, 535; (751), 42, 42, 505; (752), 45, 45, 638; (753), 41, 41, 666; (754), 47, 47, 598; (755), 38, 37, 553; (756), 22, 22, 427; (757), 56, 56, 613; (758), 67, 67, 590; (759), 34, 34, 516; (760), 46, 46, 495; (761), 38, 38, 497; (762), 33, 32, 466; (763), 16, 16, 116; (764), 31, 31, 492; (765), 18, 18, 558; (766), 23, 23, 145; (767), 17, 17, 442; (768), 25, 25, 473; (769), 46, 46, 531; (770), 37, 37, 655; (771), 41, 41, 586; (772), 29, 29, 463; (773), 38, 38, 616; (774), 34, 34, 470; (775), 31, 31, 502; (776), 27, 26, 479; (777), 44, 44, 513; (778), 23, 22, 149; (779), 45, 45, 673; (780), 54, 54, 619; (781), 63, 63, 540; (782), 44, 44, 643; (783), 15, 15, 405; (784), 61, 61, 492; (785), 39, 39, 517; (786), 27, 27, 522; (787), 21, 21, 458; (788), 63, 63, 552; (789), 44, 44, 557; (790), 42, 42, 437; (791), 33, 33, 464; (792), 38, 38, 516; (793), 26, 26, 444; (794), 26, 26, 491; (795), 22, 22, 137; (796), 24, 24, 462; (797), 44, 44, 570; (798), 23, 23, 450; (799), 25, 25, 475; (800), 18, 17, 126; (801), 18, 18, 530; (802), 25, 25, 140; (803), 32, 32, 511;

(804), 43, 42, 524; (805), 38, 38, 455; (806), 40, 40, 489; (807), 22, 22, 472; (808), 23, 23, 148; (809), 30, 30, 513; (810), 35, 35, 652; (811), 40, 40, 639; (812), 26, 26, 133; (813), 21, 21, 140; (814), 47, 47, 611; (815), 19, 19, 118; (816), 29, 29, 147; (817), 26, 26, 139; (818), 49, 49, 540; (819), 40, 40, 662; (820), 22, 22, 440; (821), 13, 13, 120; (822), 39, 39, 611; (823), 15, 15, 129; (824), 17, 17, 434; (825), 30, 30, 132; (826), 30, 30, 489; (827), 19, 19, 563; (828), 16, 16, 418; (829), 56, 56, 648; (830), 33, 33, 131; (831), 16, 16, 542; (832), 41, 41, 556; (833), 28, 28, 567; (834), 26, 26, 464; (835), 13, 13, 90; (837), 18, 18, 503; (838), 32, 32, 536; (839), 19, 19, 464; (840), 71, 71, 617; (841), 17, 17, 124; (842), 15, 15, 130; (843), 16, 16, 622; (844), 27, 27, 448; (845), 15, 15, 139; (846), 44, 44, 575; (847), 38, 38, 594; (848), 25, 25, 431; (849), 50, 50, 594; (850), 24, 24, 455; (851), 16, 16, 134; (852), 19, 19, 132; (853), 21, 21, 492; (854), 20, 20, 115; (855), 21, 21, 136; (856), 16, 16, 144; (857), 25, 25, 138; (858), 17, 17, 441; (859), 17, 17, 127; (860), 51, 51, 650; (861), 37, 37, 506; (862), 35, 35, 600; (863), 54, 54, 554; (864), 24, 24, 498; (865), 21, 21, 137; (866), 24, 24, 451; (867), 18, 18, 67; (868), 37, 37, 589; (869), 16, 16, 456; (870), 33, 33, 649; (871), 21, 21, 128; (872), 35, 35, 626; (873), 47, 47, 648; (874), 28, 28, 463; (875), 38, 38, 581; (876), 14, 14, 109; (877), 23, 22, 145; (879), 29, 29, 485; (880), 11, 11, 440; (881), 24, 24, 443; (882), 32, 32, 468; (883), 21, 21, 128; (884), 42, 42, 527; (885), 43, 43, 595; (886), 34, 34, 462; (888), 20, 20, 137; (889), 22, 22, 477; (890), 32, 32, 602; (891), 29, 29, 137; (892), 23, 23, 480; (893), 43, 43, 622; (894), 17, 17, 133; (895), 50, 50, 563; (896), 32, 32, 498; (897), 42, 42, 621; (898), 28, 28, 510; (899), 38, 38, 466; (900), 19, 19, 457; (901), 31, 31, 146; (902), 27, 27, 561; (903), 41, 41, 559; (904), 32, 32, 485; (905), 17, 17, 145; (906), 21, 21, 448; (907), 33, 33, 157; (908), 39, 39, 621; (909), 18, 18, 149; (910), 23, 23, 125; (911), 48, 48, 451; (912), 52, 52, 527; (913), 35, 35, 462; (914), 31, 31, 455; (915), 26, 26, 140; (916), 25, 25, 623; (917), 17, 17, 493; (918), 21, 21, 131; (919), 24, 24, 475; (920), 24, 24, 531; (921), 55, 55, 548; (922), 35, 35, 585; (923), 30, 30, 582; (924), 41, 41, 592; (925), 36, 36, 516; (926), 43, 43, 623; (927), 60, 60, 521; (928), 31, 31, 509; (929), 36, 36, 523; (930), 20, 20, 118; (931), 19, 19, 467; (932), 20, 20, 136; (933), 22, 22, 485; (934), 41, 41, 492; (935), 32, 32, 545; (936), 45, 45, 516; (937), 17, 17, 529; (938), 43, 43, 615; (939), 17, 17, 137; (940), 43, 43, 481; (941), 32, 32, 579; (942), 39, 39, 559; (943), 30, 29, 501; (945), 8, 8, 27; (946), 20, 20, 470; (947), 18, 18, 133; (948), 19, 19, 432; (949), 19, 19, 151; (950), 34, 34, 618; (951), 22, 22, 565; (952), 47, 47, 573; (953), 18, 18, 135; (954), 46, 45, 649; (955), 20, 20, 419; (956), 18, 18, 125; (957), 28, 26, 481; (958), 26, 26, 538; (959), 22, 22, 463; (960), 24, 24, 634; (961), 15, 15, 474; (962), 22, 22, 515; (963), 20, 20, 561; (964), 27, 27, 475; (965), 25, 25, 540; (966), 23, 23, 138; (967), 15, 14, 497; (968), 46, 45, 496; (969), 24, 24, 534; (970), 19, 19, 535; (971), 30, 30, 491; (972), 33, 33, 494; (973), 22, 22, 541; (974), 26, 26, 139; (975), 28, 28, 496; (976), 46, 45, 526; (977), 17, 17, 459; (978), 29, 29, 464; (979), 21, 21, 441; (980), 34, 34, 568; (981), 43, 43, 616; (982), 45, 45, 560; (983), 23, 23, 446; (984), 22, 22, 423; (985), 24, 24, 646; (986), 29, 29, 499; (987), 42, 42, 510; (988), 21, 21, 444; (989), 21, 21, 467; (990), 28, 28, 464; (991), 34, 34, 552; (992), 22, 22, 500; (993), 37, 37, 542; (994), 23, 23, 132; (995), 39, 38, 524; (996), 22, 22, 540; (997), 19, 19, 438; (998), 8, 8, 430; (999), 47, 47, 636; (1000), 29, 29, 476; (1001), 25, 25, 449; (1002), 43, 43, 489; (1003), 14, 14, 103; (1004), 37, 37, 491; (1005), 15, 15, 451; (1006), 10, 10, 416; (1007), 41, 41, 545; (1008), 37, 37, 585; (1010), 30, 30, 507; (1012), 15, 15, 114; (1013), 25, 25, 156; (1014), 20, 20, 121; (1015), 27, 27, 435; (1016), 21, 21, 558; (1017), 29, 29, 138; (1018), 33, 33, 616; (1019), 29, 29, 110; (1020), 18, 18, 457; (1021), 49, 49, 624; (1022), 23, 23, 512; (1023), 48, 48, 517; (1024), 20, 20, 430; (1025), 16, 16, 531; (1026), 17, 17, 90; (1027), 26, 26, 488; (1028), 26, 26, 492; (1029), 49, 49, 580; (1030), 37, 37, 474; (1031), 43, 43, 601; (1032), 28, 28, 472; (1033), 23, 23, 140; (1034), 15, 15, 116; (1035), 13, 13, 438; (1036), 61, 61, 525; (1037), 11, 11, 88; (1038), 8, 8, 35; (1039), 38, 38, 512; (1040), 11, 11, 406; (1041), 27, 26, 446; (1042), 23, 23, 129; (1043), 43, 43, 463; (1044), 31, 31, 589; (1046), 21, 21, 122; (1047), 24, 23, 132; (1048), 19, 18, 509; (1049), 11, 11, 418; (1050), 26, 26, 117; (1051), 27, 27, 477; (1052), 21, 21, 545; (1053), 11, 11, 130; (1054), 32, 32, 570; (1055), 21, 21, 535; (1056), 27, 27, 660; (1057), 41, 41, 575; (1058), 7, 7, 109; (1059), 56, 55, 531; (1060), 22, 22, 589; (1062), 55, 55, 482; (1063), 38, 38, 575; (1064), 30, 30, 593; (1065), 12, 12, 87; (1066), 12, 12, 72; (1067), 34, 34, 538; (1068), 15, 15, 141; (1069), 28, 28, 145; (1070), 13, 13, 120; (1071), 25, 25, 148; (1072), 26, 26, 565; (1073), 11, 11, 60; (1074), 15, 15, 446; (1075), 48, 48, 640; (1076), 14, 14, 499; (1077), 18, 18, 105; (1078), 29, 29, 158; (1079), 32, 32, 498; (1080), 20, 20, 575; (1081), 27, 27, 458; (1082), 36, 36, 554; (1083), 23, 23, 145; (1084), 42, 42, 539; (1085), 25, 25, 475; (1086), 13, 13, 576; (1087), 29, 29, 480; (1088), 27, 27, 661; (1089), 27, 27, 550; (1090), 35, 35, 547; (1091), 23, 23, 494; (1092), 15, 15, 138; (1093), 56, 56, 517; (1094), 25, 24, 139; (1095), 14, 14, 117; (1096), 16, 16, 453; (1097), 22, 22, 107; (1098), 62, 62, 570; (1099), 17, 17, 114; (1100), 20, 20, 132; (1101), 38, 38, 482; (1102), 38, 38, 451; (1103), 29, 29, 133; (1105), 34, 32, 450; (1106), 22, 22, 458; (1107), 47, 47, 581; (1108), 23, 23, 415; (1109), 26, 26, 535; (1110), 18, 18, 128; (1111), 17, 17, 124; (1112), 15, 15, 124; (1113), 38, 38, 594; (1114), 48, 46, 496; (1115), 40, 40, 499; (1116), 41, 41, 546; (1117), 30, 29, 567; (1118), 15, 15, 121; (1119), 35, 35, 582; (1120), 18, 18, 122; (1121), 14, 14, 136; (1122), 18, 18, 100; (1123), 23, 22, 146; (1124), 47, 47, 518; (1125), 11, 11, 421; (1126), 31, 31, 633; (1127), 31, 31, 559; (1128), 17, 17, 431; (1129), 32, 32, 486; (1130), 30, 30, 614; (1131), 21, 21, 114; (1132), 25, 25, 452; (1133), 16, 16, 104; (1135), 47, 47, 584; (1136), 28, 28, 620; (1137), 9, 9, 123; (1138), 10, 10, 85; (1139), 13, 13, 68; (1140), 34, 34, 462; (1142), 16, 16, 461; (1143), 3

2000 APR. 18

M.P.C. 39729

(1154), 35, 35, 546; (1155), 26, 26, 619; (1156), 18, 18, 86; (1157), 42, 42, 483; (1158), 43, 43, 645; (1159), 40, 40, 629; (1160), 31, 31, 576; (1161), 16, 16, 102; (1162), 31, 31, 468; (1163), 21, 21, 127; (1164), 7, 7, 454; (1165), 38, 37, 480; (1166), 38, 37, 625; (1167), 37, 37, 481; (1168), 14, 14, 86; (1169), 14, 14, 126; (1170), 15, 15, 109; (1171), 23, 23, 150; (1172), 37, 37, 532; (1173), 29, 29, 493; (1174), 27, 27, 513; (1175), 37, 37, 533; (1176), 15, 15, 430; (1177), 31, 31, 425; (1178), 32, 32, 558; (1179), 26, 26, 122; (1180), 35, 35, 463; (1181), 40, 40, 584; (1182), 17, 17, 101; (1183), 25, 25, 140; (1184), 27, 27, 474; (1185), 26, 26, 144; (1186), 48, 48, 484; (1187), 21, 21, 133; (1188), 32, 32, 521; (1189), 32, 32, 467; (1190), 21, 21, 515; (1191), 28, 28, 450; (1192), 19, 19, 496; (1193), 22, 22, 131; (1194), 34, 33, 461; (1195), 19, 19, 99; (1196), 19, 19, 138; (1197), 26, 26, 160; (1199), 26, 26, 519; (1200), 22, 22, 478; (1201), 22, 22, 460; (1202), 17, 17, 91; (1203), 18, 18, 517; (1204), 35, 35, 628; (1206), 32, 32, 539; (1207), 46, 46, 548; (1208), 18, 18, 100; (1209), 12, 12, 433; (1210), 15, 15, 467; (1211), 16, 16, 459; (1212), 23, 23, 475; (1213), 19, 19, 117; (1214), 16, 16, 122; (1215), 9, 9, 97; (1216), 15, 15, 87; (1217), 25, 25, 501; (1218), 14, 14, 507; (1219), 23, 23, 581; (1220), 19, 19, 137; (1222), 25, 25, 477; (1223), 43, 43, 595; (1224), 14, 14, 131; (1225), 18, 18, 127; (1226), 20, 20, 499; (1228), 13, 13, 105; (1229), 20, 20, 438; (1231), 10, 10, 100; (1232), 52, 52, 560; (1233), 25, 25, 128; (1234), 29, 28, 553; (1236), 34, 34, 642; (1237), 37, 37, 509; (1238), 16, 16, 577; (1239), 15, 15, 476; (1240), 50, 50, 450; (1241), 37, 37, 403; (1242), 20, 20, 127; (1243), 37, 37, 557; (1244), 16, 16, 129; (1245), 25, 25, 138; (1246), 12, 12, 111; (1247), 46, 45, 640; (1248), 29, 29, 628; (1249), 23, 23, 513; (1250), 8, 8, 45; (1251), 29, 29, 553; (1252), 17, 17, 98; (1253), 24, 23, 546; (1254), 16, 16, 479; (1255), 23, 23, 522; (1256), 20, 20, 443; (1257), 34, 34, 578; (1258), 11, 11, 103; (1259), 29, 29, 468; (1260), 31, 31, 533; (1261), 14, 14, 120; (1262), 38, 38, 489; (1263), 19, 19, 108; (1264), 32, 32, 461; (1265), 11, 11, 467; (1266), 45, 45, 532; (1267), 13, 13, 100; (1268), 22, 22, 148; (1269), 36, 36, 492; (1270), 15, 15, 458; (1271), 30, 30, 448; (1272), 7, 7, 29; (1273), 26, 26, 95; (1274), 35, 35, 512; (1275), 21, 21, 134; (1276), 23, 23, 528; (1277), 16, 16, 128; (1278), 13, 13, 110; (1279), 23, 23, 640; (1280), 24, 24, 138; (1281), 41, 41, 608; (1282), 25, 25, 499; (1283), 13, 13, 105; (1284), 46, 46, 483; (1285), 24, 24, 450; (1286), 13, 13, 119; (1287), 11, 11, 459; (1288), 28, 28, 128; (1289), 20, 20, 138; (1290), 19, 19, 557; (1291), 14, 14, 137; (1292), 28, 28, 484; (1293), 10, 10, 80; (1294), 34, 34, 637; (1295), 16, 16, 532; (1296), 31, 31, 555; (1297), 19, 19, 499; (1298), 30, 30, 506; (1299), 26, 26, 511; (1300), 11, 11, 123; (1301), 19, 19, 496; (1302), 23, 23, 416; (1303), 44, 44, 585; (1304), 47, 47, 525; (1305), 24, 24, 444; (1306), 25, 25, 462; (1307), 33, 33, 140; (1308), 25, 25, 463; (1309), 31, 31, 467; (1310), 8, 8, 89; (1311), 25, 25, 598; (1312), 36, 36, 585; (1313), 32, 32, 499; (1314), 22, 22, 137; (1315), 32, 32, 139; (1317), 34, 34, 142; (1318), 39, 39, 520; (1319), 34, 34, 490; (1320), 17, 17, 417; (1321), 17, 17, 119; (1322), 18, 18, 634; (1323), 39, 39, 522; (1324), 16, 16, 126; (1325), 27, 27, 579; (1326), 25, 25, 526; (1327), 21, 21, 582; (1328), 24, 24, 135; (1329), 50, 50, 473; (1330), 23, 23, 462; (1331), 53, 53, 619; (1332), 20, 20, 454; (1333), 13, 13, 476; (1334), 29, 29, 585; (1335), 23, 22, 110; (1336), 25, 25, 137; (1337), 35, 35, 557; (1338), 22, 22, 543; (1339), 14, 14, 126; (1340), 26, 26, 490; (1341), 19, 18, 141; (1342), 46, 45, 545; (1343), 35, 35, 496; (1344), 13, 13, 139; (1345), 29, 29, 537; (1346), 33, 33, 587; (1347), 19, 19, 112; (1348), 19, 19, 469; (1349), 42, 42, 472; (1350), 11, 11, 117; (1351), 30, 30, 140; (1352), 22, 22, 452; (1353), 18, 18, 482; (1354), 39, 39, 456; (1355), 25, 25, 649; (1356), 30, 30, 127; (1357), 37, 37, 538; (1358), 14, 14, 458; (1359), 18, 18, 118; (1360), 9, 9, 55; (1361), 23, 23, 488; (1362), 14, 14, 98; (1363), 27, 27, 590; (1364), 20, 20, 421; (1365), 28, 28, 644; (1366), 35, 35, 556; (1367), 21, 21, 613; (1368), 20, 20, 462; (1369), 16, 16, 115; (1370), 17, 17, 138; (1371), 33, 33, 558; (1372), 18, 17, 534; (1373), 28, 28, 473; (1374), 24, 24, 154; (1375), 8, 8, 91; (1376), 32, 32, 516; (1377), 30, 30, 559; (1378), 25, 25, 623; (1379), 30, 30, 486; (1380), 21, 21, 509; (1382), 30, 30, 636; (1383), 32, 32, 583; (1384), 6, 6, 490; (1385), 23, 23, 502; (1387), 10, 10, 83; (1388), 33, 33, 458; (1389), 32, 32, 491; (1390), 41, 41, 500; (1391), 31, 31, 543; (1392), 9, 9, 121; (1393), 23, 23, 448; (1394), 25, 25, 450; (1395), 11, 11, 477; (1396), 29, 29, 129; (1397), 29, 29, 486; (1398), 52, 52, 503; (1399), 22, 22, 102; (1401), 37, 37, 143; (1402), 11, 11, 459; (1403), 29, 29, 630; (1404), 26, 26, 433; (1405), 13, 13, 112; (1406), 27, 27, 491; (1407), 15, 15, 449; (1408), 10, 10, 90; (1409), 15, 15, 123; (1410), 23, 23, 436; (1411), 17, 17, 138; (1412), 20, 20, 138; (1413), 34, 34, 467; (1415), 23, 23, 505; (1416), 28, 28, 487; (1417), 13, 13, 468; (1418), 19, 19, 136; (1419), 24, 24, 548; (1420), 21, 21, 140; (1421), 32, 32, 505; (1422), 13, 13, 40; (1423), 36, 36, 583; (1424), 34, 34, 447; (1425), 24, 24, 490; (1426), 31, 31, 473; (1427), 22, 22, 766; (1428), 48, 48, 596; (1429), 30, 30, 598; (1430), 21, 21, 127; (1431), 8, 8, 100; (1432), 25, 25, 481; (1433), 32, 32, 131; (1434), 22, 22, 450; (1435), 9, 9, 46; (1436), 20, 20, 117; (1437), 32, 32, 414; (1438), 20, 20, 567; (1439), 12, 12, 474; (1440), 23, 23, 542; (1442), 31, 31, 601; (1443), 11, 11, 128; (1445), 7, 7, 42; (1446), 19, 19, 130; (1447), 24, 24, 136; (1448), 27, 27, 537; (1449), 29, 29, 669; (1450), 30, 30, 529; (1451), 16, 16, 501; (1452), 11, 11, 90; (1453), 28, 28, 674; (1454), 17, 17, 551; (1455), 27, 27, 521; (1456), 15, 15, 406; (1457), 23, 23, 621; (1458), 33, 33, 128; (1459), 57, 57, 547; (1460), 22, 22, 126; (1461), 26, 26, 519; (1462), 27, 26, 434; (1463), 17, 17, 125; (1464), 30, 30, 495; (1465), 27, 27, 511; (1466), 20, 20, 141; (1467), 33, 33, 395; (1469), 42, 42, 517; (1470), 21, 21, 571; (1471), 11, 11, 132; (1472), 29, 29, 151; (1473), 18, 18, 100; (1475), 10, 10, 441; (1476), 28, 28, 531; (1477), 24, 24, 522; (1478), 25, 25, 492; (1479), 33, 33, 141; (1480), 22, 22, 521; (1481), 37, 37, 502; (1482), 46, 46, 553; (1483), 30, 30, 511; (1484), 18, 18, 465; (1485), 9, 9, 123; (1486), 9, 9, 111; (1487), 44, 44, 511; (1488), 14, 14, 477; (1489), 25, 25, 455; (1490), 30, 30, 138; (1491), 32, 32, 491; (1492), 18, 18, 115; (1493), 21, 21, 648; (1494), 18, 18, 503; (1495), 31, 31, 515; (1496), 14, 14, 136; (1497), 12, 12, 138; (1498), 38, 38,

535; (1499), 47, 47, 653; (1500), 23, 23, 559; (1501), 26, 26, 545; (1502), 13, 13, 110; (1503), 23, 23, 148; (1504), 6, 6, 92; (1505), 17, 17, 123; (1506), 14, 14, 443; (1507), 7, 7, 32; (1508), 19, 19, 121; (1509), 20, 20, 67; (1510), 31, 31, 492; (1511), 27, 27, 525; (1512), 24, 24, 430; (1513), 13, 13, 80; (1514), 10, 10, 117; (1515), 20, 20, 104; (1516), 25, 25, 502; (1517), 33, 33, 491; (1518), 23, 23, 142; (1519), 29, 29, 140; (1520), 41, 41, 481; (1522), 22, 22, 92; (1523), 25, 25, 105; (1524), 20, 20, 129; (1526), 26, 26, 108; (1527), 16, 16, 66; (1528), 31, 31, 474; (1529), 30, 30, 510; (1530), 18, 18, 88; (1531), 27, 26, 141; (1532), 17, 17, 114; (1533), 28, 28, 519; (1535), 14, 14, 94; (1536), 30, 29, 122; (1537), 28, 28, 527; (1538), 14, 14, 105; (1539), 9, 9, 90; (1540), 14, 14, 115; (1541), 22, 22, 130; (1542), 17, 17, 129; (1543), 8, 8, 38; (1544), 21, 21, 137; (1546), 35, 35, 463; (1547), 11, 11, 80; (1548), 26, 26, 448; (1549), 23, 22, 546; (1550), 36, 36, 140; (1551), 28, 28, 546; (1552), 36, 36, 510; (1553), 17, 17, 119; (1554), 20, 20, 123; (1555), 24, 23, 536; (1556), 16, 16, 131; (1557), 19, 19, 443; (1558), 29, 29, 454; (1559), 24, 24, 121; (1560), 28, 28, 538; (1561), 17, 17, 119; (1562), 17, 16, 121; (1563), 7, 7, 51; (1564), 18, 18, 130; (1567), 20, 20, 107; (1568), 11, 11, 93; (1569), 31, 30, 545; (1570), 10, 10, 83; (1571), 16, 16, 444; (1572), 38, 37, 536; (1573), 8, 8, 70; (1574), 44, 44, 516; (1575), 25, 25, 546; (1576), 36, 36, 474; (1577), 18, 18, 131; (1578), 18, 18, 122; (1579), 37, 37, 531; (1581), 20, 20, 120; (1582), 24, 24, 129; (1583), 36, 36, 455; (1584), 43, 43, 527; (1585), 20, 20, 146; (1586), 26, 26, 110; (1587), 12, 12, 40; (1588), 17, 17, 103; (1589), 25, 25, 116; (1590), 14, 14, 134; (1591), 23, 23, 130; (1592), 16, 16, 421; (1593), 15, 15, 99; (1594), 9, 9, 110; (1595), 22, 22, 134; (1596), 32, 32, 440; (1597), 24, 24, 499; (1598), 28, 28, 477; (1599), 13, 13, 110; (1600), 15, 15, 126; (1601), 17, 17, 139; (1602), 32, 32, 539; (1603), 23, 23, 538; (1604), 13, 13, 116; (1605), 18, 18, 128; (1606), 15, 15, 82; (1607), 24, 24, 122; (1608), 26, 26, 116; (1609), 25, 25, 136; (1610), 8, 8, 51; (1611), 32, 32, 516; (1612), 11, 11, 88; (1613), 8, 8, 59; (1614), 19, 19, 128; (1615), 12, 12, 86; (1616), 16, 16, 125; (1617), 19, 19, 106; (1618), 24, 24, 466; (1619), 17, 17, 112; (1621), 21, 21, 110; (1622), 15, 15, 118; (1623), 38, 38, 532; (1624), 28, 28, 540; (1625), 35, 35, 532; (1626), 20, 20, 531; (1627), 22, 22, 414; (1628), 16, 16, 148; (1629), 16, 16, 126; (1630), 22, 22, 125; (1631), 16, 16, 108; (1632), 20, 20, 137; (1633), 35, 35, 520; (1634), 19, 19, 112; (1635), 44, 44, 541; (1636), 14, 14, 535; (1637), 20, 20, 98; (1638), 18, 18, 73; (1639), 18, 18, 98; (1640), 9, 9, 32; (1641), 31, 31, 546; (1642), 13, 13, 148; (1643), 27, 26, 533; (1644), 13, 13, 111; (1645), 30, 30, 460; (1646), 20, 20, 125; (1648), 16, 16, 86; (1649), 16, 16, 89; (1650), 18, 18, 473; (1651), 19, 19, 465; (1652), 17, 17, 88; (1653), 15, 15, 90; (1654), 32, 32, 539; (1655), 31, 31, 511; (1656), 18, 18, 105; (1657), 24, 24, 517; (1658), 37, 37, 539; (1660), 20, 20, 501; (1661), 28, 28, 111; (1662), 10, 10, 98; (1663), 14, 14, 132; (1664), 25, 25, 544; (1665), 18, 18, 112; (1666), 29, 29, 533; (1667), 41, 41, 531; (1668), 26, 26, 121; (1669), 25, 25, 120; (1670), 27, 27, 490; (1671), 14, 14, 88; (1672), 10, 10, 98; (1673), 14, 14, 141; (1674), 21, 21, 490; (1675), 17, 17, 88; (1676), 15, 15, 140; (1677), 20, 19, 125; (1678), 7, 7, 67; (1679), 31, 31, 521; (1680), 28, 28, 455; (1681), 18, 18, 113; (1682), 9, 9, 55; (1683), 12, 12, 64; (1684), 20, 20, 122; (1685), 10, 10, 64; (1686), 20, 20, 768; (1687), 42, 41, 538; (1688), 20, 20, 87; (1689), 28, 28, 154; (1690), 15, 15, 113; (1691), 11, 11, 86; (1692), 35, 35, 118; (1693), 13, 13, 119; (1694), 10, 10, 86; (1696), 20, 20, 466; (1697), 23, 23, 530; (1698), 30, 30, 515; (1699), 10, 10, 118; (1700), 31, 31, 155; (1701), 36, 36, 532; (1702), 26, 26, 136; (1703), 25, 25, 129; (1704), 13, 13, 501; (1706), 21, 21, 96; (1707), 25, 25, 119; (1708), 24, 24, 533; (1709), 13, 13, 545; (1711), 15, 15, 116; (1712), 42, 41, 534; (1713), 17, 17, 112; (1714), 22, 22, 139; (1715), 27, 27, 535; (1716), 26, 26, 515; (1717), 21, 21, 99; (1720), 27, 27, 138; (1721), 26, 26, 462; (1722), 22, 22, 113; (1723), 18, 18, 144; (1724), 19, 19, 138; (1725), 23, 22, 123; (1726), 27, 27, 546; (1727), 24, 24, 129; (1728), 31, 31, 129; (1729), 16, 16, 130; (1730), 11, 11, 85; (1731), 25, 25, 150; (1732), 23, 23, 126; (1733), 19, 19, 137; (1734), 12, 12, 143; (1735), 44, 44, 462; (1736), 13, 13, 125; (1737), 26, 26, 132; (1738), 30, 30, 473; (1739), 10, 10, 86; (1741), 18, 18, 122; (1742), 31, 31, 463; (1743), 20, 20, 528; (1744), 19, 19, 118; (1745), 40, 40, 538; (1746), 11, 11, 93; (1747), 12, 12, 76; (1748), 29, 29, 450; (1749), 40, 40, 471; (1750), 8, 8, 76; (1751), 20, 20, 126; (1752), 9, 9, 76; (1753), 36, 36, 493; (1754), 16, 16, 99; (1755), 19, 19, 100; (1756), 22, 21, 106; (1757), 10, 10, 488; (1758), 37, 37, 120; (1759), 24, 24, 131; (1760), 24, 24, 444; (1762), 18, 18, 115; (1763), 13, 13, 511; (1764), 11, 11, 121; (1765), 19, 19, 131; (1766), 33, 32, 501; (1767), 24, 24, 481; (1768), 9, 9, 24; (1769), 21, 21, 109; (1770), 18, 18, 107; (1771), 28, 28, 145; (1772), 21, 21, 492; (1773), 20, 20, 125; (1774), 14, 14, 103; (1775), 21, 21, 135; (1776), 40, 40, 512; (1777), 45, 45, 516; (1778), 15, 15, 467; (1780), 42, 42, 521; (1781), 11, 10, 69; (1782), 15, 15, 458; (1783), 14, 14, 488; (1784), 14, 14, 91; (1785), 10, 10, 75; (1786), 14, 14, 112; (1787), 28, 28, 128; (1788), 8, 8, 35; (1789), 24, 23, 123; (1790), 23, 23, 516; (1791), 16, 16, 120; (1792), 21, 21, 90; (1793), 19, 19, 118; (1794), 22, 22, 122; (1795), 20, 20, 439; (1796), 36, 36, 515; (1797), 20, 20, 126; (1798), 23, 23, 103; (1799), 33, 33, 491; (1800), 18, 18, 98; (1801), 20, 20, 121; (1802), 23, 23, 450; (1803), 18, 18, 121; (1804), 29, 29, 506; (1805), 13, 13, 90; (1806), 24, 24, 108; (1807), 17, 17, 132; (1808), 9, 9, 71; (1809), 9, 9, 102; (1810), 10, 10, 84; (1811), 27, 27, 127; (1812), 8, 8, 80; (1813), 17, 17, 113; (1814), 12, 12, 141; (1815), 29, 29, 126; (1816), 34, 34, 487; (1817), 39, 39, 488; (1818), 9, 9, 63; (1819), 35, 35, 506; (1820), 24, 23, 516; (1821), 24, 24, 516; (1822), 16, 16, 510; (1823), 21, 21, 460; (1824), 19, 19, 474; (1825), 26, 26, 475; (1826), 11, 11, 124; (1827), 25, 25, 137; (1828), 36, 36, 501; (1829), 15, 15, 506; (1830), 21, 21, 503; (1831), 20, 20, 117; (1832), 26, 26, 506; (1833), 21, 21, 109; (1834), 11, 11, 143; (1835), 27, 27, 142; (1836), 16, 16, 131; (1837), 21, 21, 115; (1838), 19, 19, 134; (1839), 27,

7, 7, 90; (1855), 21, 21, 113; (1856), 21, 21, 140; (1857), 23, 23, 140; (1858), 18, 18, 128; (1859), 15, 15, 112; (1860), 18, 18, 462; (1861), 11, 11, 61; (1863), 9, 9, 31; (1865), 9, 9, 32; (1866), 10, 10, 33; (1867), 23, 23, 426; (1868), 22, 22, 434; (1874), 13, 13, 101; (1877), 6, 6, 414; (1878), 18, 18, 119; (1879), 17, 17, 128; (1880), 24, 24, 123; (1881), 18, 18, 439; (1882), 41, 41, 511; (1883), 9, 9, 28; (1884), 23, 23, 130; (1885), 7, 7, 39; (1886), 9, 9, 117; (1887), 16, 16, 128; (1888), 9, 9, 85; (1889), 29, 29, 502; (1891), 15, 15, 105; (1892), 28, 28, 501; (1893), 25, 25, 136; (1894), 8, 8, 63; (1895), 19, 19, 132; (1897), 6, 6, 485; (1898), 21, 21, 492; (1899), 20, 20, 464; (1900), 13, 13, 115; (1901), 21, 21, 513; (1902), 40, 40, 488; (1903), 21, 21, 128; (1904), 15, 15, 102; (1905), 19, 19, 95; (1906), 26, 26, 143; (1907), 13, 13, 104; (1908), 15, 15, 119; (1909), 13, 13, 59; (1910), 36, 36, 474; (1911), 24, 24, 131; (1912), 19, 19, 112; (1913), 19, 19, 510; (1914), 29, 29, 128; (1918), 10, 10, 111; (1919), 16, 16, 96; (1920), 19, 19, 126; (1923), 12, 12, 64; (1925), 27, 27, 141; (1926), 17, 17, 104; (1927), 39, 39, 510; (1928), 6, 6, 41; (1929), 15, 15, 100; (1930), 37, 37, 515; (1933), 19, 19, 96; (1934), 23, 23, 132; (1935), 16, 16, 73; (1936), 31, 31, 498; (1937), 38, 38, 503; (1938), 22, 22, 490; (1939), 20, 20, 117; (1940), 19, 19, 132; (1942), 11, 11, 38; (1943), 9, 9, 17; (1944), 8, 8, 21; (1945), 9, 9, 95; (1946), 11, 11, 103; (1947), 27, 27, 460; (1948), 22, 22, 103; (1949), 16, 16, 104; (1950), 26, 26, 134; (1952), 27, 27, 146; (1954), 14, 14, 91; (1955), 10, 10, 117; (1956), 14, 14, 471; (1957), 26, 26, 454; (1958), 31, 31, 461; (1959), 14, 14, 111; (1960), 15, 15, 121; (1961), 17, 17, 98; (1963), 20, 20, 115; (1964), 20, 20, 65; (1965), 13, 13, 139; (1967), 21, 21, 503; (1968), 24, 24, 473; (1969), 16, 16, 457; (1970), 16, 16, 464; (1971), 7, 7, 45; (1972), 18, 18, 121; (1973), 6, 6, 72; (1975), 18, 18, 136; (1976), 9, 9, 108; (1977), 36, 36, 488; (1978), 20, 20, 93; (1980), 10, 10, 53; (1982), 14, 14, 84; (1983), 6, 6, 67; (1984), 30, 30, 495; (1985), 28, 28, 460; (1986), 7, 7, 62; (1987), 13, 13, 97; (1988), 15, 15, 126; (1990), 16, 16, 113; (1991), 24, 24, 132; (1993), 9, 9, 54; (1994), 11, 11, 94; (1995), 10, 10, 64; (1996), 25, 25, 117; (1997), 18, 18, 137; (1998), 19, 19, 111; (1999), 42, 42, 496; (2000), 9, 9, 92; (2060), 36, 36, 471; (2296), 23, 23, 481; (2421), 10, 10, 47; (2455), 27, 27, 470; (2589), 32, 32, 577; (2703), 12, 12, 87; (2873), 13, 13, 42; (2930), 12, 12, 74; (3002), 27, 27, 526; (3019), 22, 22, 509; (3071), 9, 9, 441; (3289), 30, 30, 72; (3335), 21, 21, 76; (3823), 6, 6, 43; (3835), 44, 44, 575; (3946), 14, 14, 44; (4499), 19, 19, 500; *[56256, 1940, 0*, 1997/11/08-1999/12/31]*

{3} 2000 GZ₁₃₂ *, 6, 3, 4; *[6, 1, 1*, 2000/04/12-2000/04/16]*

691 Kitt Peak, Steward Observatory

R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721,
U.S.A. [bob@lpl.arizona.edu]

Observers A. E. Gleason, J. V. Scotti, R. S. McMillan, J. L. Montani, M. T. Read,
T. Gehrels, J. A. Larsen

0.91-m Spacewatch telescope + CCD

USNO-A1.0, USNO-SA1.0, USNO-SA2.0

1969 TY₁, 6, 2, 1; 1971 UK₁, 3, 1, 0; 1973 UN₅, 3, 1, 0; 1977 DQ₃, 6, 2, 10; 1977 ES₇, 6, 2, 5; 1978 QK₂, 3, 1, 0; 1978 SD₈, 3, 1, 0; 1978 UW₄, 6, 2, 2564; 1978 UJ₅, 3, 1, 0; 1978 UX₇, 6, 2, 4; 1978 VL₄, 5, 2, 5; 1978 VZ₈, 6, 2, 6; 1978 VC₉, 3, 1, 0; 1978 VW₉, 3, 1, 0; 1978 VN₁₀, 6, 2, 1; 1978 XD₁, 9, 3, 1825; 1979 MH₈, 3, 1, 0; 1979 QX₂, 12, 4, 26; 1979 SH₃, 3, 1, 0; 1981 DR₁, 2, 1, 0; 1981 DJ₂, 3, 1, 0; 1981 EH₆, 3, 1, 0; 1981 EX₈, 3, 1, 0; 1981 ED₉, 3, 1, 0; 1981 EY₁₀, 3, 1, 0; 1981 ED₁₈, 6, 2, 4; 1981 EX₂₀, 5, 2, 773; 1981 EZ₂₁, 3, 1, 0; 1981 EO₂₃, 9, 3, 19; 1981 EU₂₅, 6, 2, 12; 1981 EE₂₆, 3, 1, 0; 1981 ES₂₆, 3, 1, 0; 1981 EJ₃₁, 3, 1, 0; 1981 EP₃₁, 15, 4, 13; 1981 ET₃₁, 3, 1, 0; 1981 EE₃₂, 5, 2, 24; 1981 EF₃₃, 3, 1, 0; 1981 EJ₃₆, 9, 3, 8; 1981 EX₄₂, 3, 1, 0; 1981 EQ₄₃, 9, 3, 19; 1981 EF₄₅, 3, 1, 0; 1981 EG₄₇, 6, 2, 59; 1981 RL₂, 3, 1, 0; 1981 UQ₂₂, 6, 2, 54; 1981 UB₂₃, 3, 1, 0; 1981 UC₂₃, 2, 1, 0; 1981 UU₂₉, 6, 2, 8; 1982 JV₁, 3, 1, 0; 1982 TJ₆, 2, 5; 1982 VN₃, 3, 1, 0; 1982 VF₄, 6, 2, 10; 1982 VG₄, 3, 1, 0; 1984 ST₅, 3, 1, 0; 1985 CD₂, 3, 1, 0; 1985 QG₅, 15, 5, 7; 1985 QL₅, 3, 1, 0; 1985 RQ₆, 6, 2, 14; 1985 RJ₄, 3, 1, 0; 1985 SC₁, 3, 1, 0; 1986 PP₃, 3, 1, 0; 1986 PU₁, 3, 1, 0; 1986 PO₂, 3, 1, 0; 1986 QM₃, 3, 1, 0; 1986 QW₁, 6, 2, 48; 1986 QY₁, 12, 3, 2220; 1986 RF₃, 6, 2, 11; 1987 QX₇, 9, 3, 441; 1987 SF₆, 3, 1, 0; 1987 SR₁₇, 3, 1, 0; 1988 RB₂, 3, 1, 0; 1988 RM₂, 3, 1, 0; 1988 RZ₂, 3, 1, 0; 1988 RX₃, 9, 3, 1388; 1988 RY₃, 6, 2, 917; 1988 RZ₅, 3, 1, 0; 1988 RK₆, 6, 2, 1034; 1988 RO₆, 3, 1, 0; 1988 RR₁₁, 9, 3, 1552; 1988 RL₁₂, 3, 1, 0; 1988 RZ₁₂, 3, 1, 0; 1988 RA₁₃, 6, 2, 8; 1988 SD₃, 6, 2, 26; 1988 TU₃, 3, 1, 0; 1988 VP₃, 6, 2, 1; 1988 XW₄, 3, 1, 0; 1989 AN₃, 3, 1, 0; 1989 GF₃, 6, 2, 27; 1989 LT₆, 6, 2, 4; 1989 QH₃, 1, 0; 1989 SM₁, 3, 1, 0; 1989 SY₃, 3, 1, 0; 1989 SP₉, 9, 3, 974; 1989 TG₁₆, 3, 1, 0; 1989 WU₃, 3, 1, 0; 1989 YB₅, 3, 1, 0; 1990 DZ₆, 6, 2, 4; 1990 DU₄, 6, 2, 1968; 1990 OB₁, 6, 2, 5; 1990 OR₃, 3, 1, 0; 1990 QK₄, 3, 1, 0; 1990 QE₅, 3, 1, 0; 1990 QT₆, 9, 3, 1458; 1990 QV₇, 3, 1, 0; 1990 QJ₁₀, 3, 1, 0; 1990 RB₇, 3, 1, 0; 1990 RA₈, 3, 1, 0; 1990 RT₈, 3, 1, 0; 1990 SE₁, 3, 1, 0; 1990 SE₄, 3, 1, 0; 1990 SO₆, 3, 1, 0; 1990 SX₆, 1, 1, 0; 1990 ST₇, 3, 1, 0; 1990 TS₁₀, 3, 1, 0; 1990 UM₆, 6, 2, 7; 1990 VE₆, 3, 1, 0; 1990 VT₆, 3, 1, 0; 1990 WD₂, 6, 2, 7; 1990 WR₂, 3, 1, 0; 1990 WN₄, 9, 3, 876; 1990 WO₄, 3, 1, 0; 1990 YR₃, 3, 1, 0; 1991 GO₇, 6, 2, 60; 1991 GL₈, 3, 1, 0; 1991 GM₈, 6, 1, 0; 1991 PX₄, 3, 1, 0; 1991 PE₈, 6, 2, 1036; 1991 PD₁₃, 12, 2, 17; 1991 PC₁₆, 6, 2, 80; 1991 RQ₂, 3, 1, 0; 1991 RS₄, 6, 2, 14; 1991 RQ₅, 9, 3, 1480; 1991 RL₉, 6, 2, 1025; 1991 RT₉, 3, 1, 0; 1991 RB₁₆, 3, 1, 0; 1991 RD₁₈, 9, 3, 882; 1991 RE₁₉, 3, 1, 0; 1991 RJ₄₁, 3, 1, 0; 1991 SJ₃, 3, 1, 0; 1991 TB₅, 3, 1, 0; 1991 TN₁₃,

3, 1, 0; 1991 TL₁₄, 6, 2, 7; 1991 UE₂, 3, 1, 0; 1991 VF₁, 3, 1, 0; 1991 VQ₂, 3, 1, 0; 1991 VG₄, 3, 1, 0; 1991 VY₄, 3, 1, 0; 1991 VC₉, 3, 1, 0; 1991 VH₉, 3, 1, 0; 1991 VM₁₂, 6, 2, 1; 1991 XG₄, 3, 1, 0; 1992 BT₂, 3, 1, 0; 1992 CK₃, 3, 1, 0; 1992 CA₅, 2, 1, 0; 1992 DH₁, 3, 1, 0; 1992 DB₈, 3, 1, 0; 1992 DD₈, 3, 1, 0; 1992 DM₉, 9, 3, 6; 1992 DV₉, 9, 3, 6; 1992 DA₁₂, 2, 1, 0; 1992 EJ₆, 3, 1, 0; 1992 EA₈, 3, 1, 0; 1992 EV₈, 3, 1, 0; 1992 EO₁₂, 3, 1, 0; 1992 EK₁₄, 3, 1, 0; 1992 ED₁₈, 3, 1, 0; 1992 ET₃₂, 3, 1, 0; 1992 EV₃₂, 3, 1, 0; 1992 FC₂, 6, 2, 506; 1992 GN₂, 5, 2, 947; 1992 GE₅, 6, 2, 16; 1992 HC₂, 3, 1, 0; 1992 JB₁, 4, 2, 10; 1992 PT₁, 3, 1, 0; 1992 PU₁, 6, 2, 398; 1992 RE₂, 3, 1, 0; 1992 RF₅, 9, 3, 6; 1992 RY₆, 3, 1, 0; 1992 SH₃, 3, 1, 0; 1992 UN₃, 3, 1, 0; 1992 WB₉, 3, 1, 0; 1993 FR₄, 3, 1, 0; 1993 FL₉, 3, 1, 0; 1993 FE₂₂, 9, 3, 60; 1993 FU₂₂, 3, 1, 0; 1993 FH₂₃, 2, 1, 0; 1993 FQ₂₃, 3, 1, 0; 1993 FF₂₅, 3, 1, 0; 1993 FM₃₂, 3, 1, 0; 1993 FC₃₃, 9, 3, 2; 1993 FZ₄₀, 3, 1, 0; 1993 FH₄₄, 3, 1, 0; 1993 FQ₄₈, 3, 1, 0; 1993 FG₅₀, 3, 1, 0; 1993 FY₇₅, 6, 2, 966; 1993 HC₁, 3, 1, 0; 1993 MT₆, 2, 6; 1993 OK₇, 3, 1, 0; 1993 QM₄, 3, 1, 0; 1993 QF₉, 3, 1, 0; 1993 TW₈, 9, 3, 10; 1993 TX₁₄, 3, 1, 0; 1993 TO₁₅, 3, 1, 0; 1993 TV₁₅, 6, 2, 6; 1993 TB₁₆, 3, 1, 0; 1993 TZ₁₆, 3, 1, 0; 1993 TK₁₇, 3, 1, 0; 1993 TW₁₇, 6, 1, 0; 1993 TB₃₈, 3, 1, 0; 1993 TP₄₅, 3, 1, 0; 1993 VK₃, 5, 2, 25; 1993 VB₆, 3, 1, 0; 1993 XH₃, 3, 1, 0; 1994 AQ₅, 6, 2, 9; 1994 EW₃, 3, 1, 0; 1994 EK₁, 9, 3, 11; 1994 ER₅, 6, 2, 3; 1994 HX₆, 6, 2, 4; 1994 PU₂, 3, 1, 0; 1994 PQ₈, 3, 1, 0; 1994 PO₁₂, 3, 1, 0; 1994 PK₁₅, 3, 1, 0; 1994 PE₂₀, 3, 1, 0; 1994 PT₂₀, 3, 1, 0; 1994 PZ₂₇, 3, 1, 0; 1994 PE₃₅, 3, 1, 0; 1994 PA₃₆, 6, 2, 6; 1994 PU₃₇, 3, 1, 0; 1994 PM₃₈, 3, 1, 0; 1994 QE₃, 1, 0; 1994 RD₃, 3, 1, 0; 1994 RK₁₁, 6, 2, 10; 1994 TU₂, 9, 3, 13; 1994 TT₁₆, 18, 4, 4; 1994 UW₃, 3, 1, 0; 1994 UD₂, 3, 1, 0; 1994 UW₉, 3, 1, 0; 1994 VJ₃, 3, 1, 0; 1994 VL₆, 6, 2, 19; 1994 VP₃, 3, 1, 0; 1994 VE₁, 6, 2, 12; 1994 WX₁, 9, 3, 1439; 1995 DZ₃, 3, 1, 0; 1995 DF₁₂, 2, 1, 0; 1995 ES₆, 3, 1, 0; 1995 MA₃, 3, 1, 0; 1995 MA₃, 3, 1, 0; 1995 QF₄, 3, 1, 0; 1995 SE₁, 3, 1, 0; 1995 SJ₇, 3, 1, 0; 1995 TA₁, 3, 1, 0; 1995 TS₃, 3, 1, 0; 1995 WU₅, 15, 4, 56; 1995 WA₈, 3, 1, 0; 1995 WB₉, 3, 1, 0; 1995 WS₃₁, 3, 1, 0; 1995 YM₃, 9, 3, 3; 1995 YJ₁₁, 2, 1, 0; 1996 AQ₇, 3, 1, 0; 1996 AP₉, 3, 1, 0; 1996 AA₁₄, 3, 1, 0; 1996 CL₈, 3, 1, 0; 1996 CN₉, 3, 1, 0; 1996 EJ₁, 3, 1, 0; 1996 EL₁, 3, 1, 0; 1996 EK₉, 9, 3, 11; 1996 EZ₁₀, 3, 1, 0; 1996 ET₁₅, 3, 1, 0; 1996 FM₂, 6, 2, 12; 1996 FK₄, 3, 1, 0; 1996 GK₃, 1, 0; 1996 GO₁₉, 3, 1, 0; 1996 HM₁₁, 12, 3, 15; 1996 HT₁₆, 3, 1, 0; 1996 HH₂₁, 3, 1, 0; 1996 HK₂₃, 3, 1, 0; 1996 HA₂₄, 3, 1, 0; 1996 HE₂₅, 3, 1, 0; 1996 JC₃, 3, 1, 0; 1996 JF₁, 6, 2, 6; 1996 JR₃, 3, 1, 0; 1996 JX₇, 6, 2, 6; 1996 LT₃, 3, 1, 0; 1996 LZ₃, 3, 1, 0; 1996 LZ₃, 3, 1, 0; 1996 MB₃, 3, 1, 0; 1996 RQ₁₃, 3, 1, 0; 1996 VY₂₆, 2, 1, 0; 1996 XK₂₂, 12, 4, 12; 1997 AH₄, 3, 1, 0; 1997 AG₁₂, 3, 1, 0; 1997 CB₃, 3, 1, 0; 1997 CK₁₂, 3, 1, 0; 1997 CL₂₆, 6, 2, 6; 1997 EN₅, 3, 1, 0; 1997 EJ₃₄, 3, 1, 0; 1997 FE₁, 3, 1, 0; 1997 FO₂, 3, 1, 0; 1997 FM₃, 6, 2, 3; 1997 GY₆, 6, 2, 3; 1997 GJ₁₃, 9, 3, 14; 1997 GP₁₆, 3, 1, 0; 1997 GS₁₆, 3, 1, 0; 1997 GA₁₇, 3, 1, 0; 1997 GK₂₃, 6, 2, 3; 1997 GZ₂₄, 3, 1, 0; 1997 GR₂₅, 3, 1, 0; 1997 GX₃₅, 3, 1, 0; 1997 GO₄₀, 6, 2, 6; 1997 GM₄₁, 3, 1, 0; 1997 JV₇, 3, 1, 0; 1997 JM₁₃, 3, 1, 0; 1997 LX₅, 6, 2, 2; 1997 LD₁₂, 3, 1, 0; 1997 LX₁₃, 3, 1, 0; 1997 LE₁₄, 3, 1, 0; 1997 MQ₁, 3, 1, 0; 1997 MW₆, 6, 2, 3; 1997 NP₂, 2, 1, 0; 1997 NR₂, 18, 4, 4; 1997 NM₃, 3, 1, 0; 1997 PZ₁, 3, 1, 0; 1997 PE₃, 6, 2, 6; 1997 QE₃, 3, 1, 0; 1997 QY₃, 3, 1, 0; 1997 QJ₃, 3, 1, 0; 1997 RN₁, 3, 1, 0; 1997 SM₁, 3, 1, 0; 1997 SA₂, 3, 1, 0; 1997 SZ₂, 3, 1, 0; 1997 SA₃, 3, 1, 0; 1997 SH₃, 9, 3, 13; 1997 SR₃, 3, 1, 0; 1997 SY₃, 3, 1, 0; 1997 SE₄, 9, 3, 13; 1997 SU₅, 3, 1, 0; 1997 SF₁₄, 3, 1, 0; 1997 SV₁₄, 3, 1, 0; 1997 SD₁₅, 3, 1, 0; 1997 SS₁₆, 6, 2, 64; 1997 ST₁₇, 3, 1, 0; 1997 SR₂₉, 3, 1, 0; 1997 SD₃₀, 3, 1, 0; 1997 TQ₉, 3, 1, 0; 1997 TG₁₃, 3, 1, 0; 1997 TB₁₈, 3, 1, 0; 1997 TD₁₉, 3, 1, 0; 1997 TF₁₉, 3, 1, 0; 1997 TP₂₀, 3, 1, 0; 1997 TE₂₅, 3, 1, 0; 1997 TA₂₆, 3, 1, 0; 1997 TN₂₆, 6, 2, 6; 1997 UC₃, 3, 1, 0; 1997 UX₃, 3, 1, 0; 1997 UV₈, 3, 1, 0; 1997 UC₁₅, 9, 3, 2; 1997 UX₂₀, 3, 1, 0; 1997 VN₁, 9, 3, 13; 1997 VM₂, 6, 2, 4; 1997 WC₂, 3, 1, 0; 1997 WO₁₁, 3, 1, 0; 1997 WL₁₅, 3, 1, 0; 1997 WB₃₃, 3, 1, 0; 1997 WN₃₈, 3, 1, 0; 1997 WP₃₈, 3, 1, 0; 1997 WE₄₇, 6, 2, 3; 1998 FU₁₁, 3, 1, 0; 1998 FX₁₅, 3, 1, 0; 1998 FM₇₈, 6, 2, 4; 1998 FU₁₂₀, 3, 1, 0; 1998 HN₁, 9, 3, 3; 1998 HJ₃₃, 3, 1, 0; 1998 HL₄₉, 6, 2, 8; 1998 HN₄₉, 3, 1, 0; 1998 HO₁₀₂, 3, 1, 0; 1998 HE₁₄₈, 6, 2, 4; 1998 JH₁, 3, 1, 0; 1998 KB₃, 3, 1, 0; 1998 KW₄, 3, 1, 0; 1998 KU₃₃, 3, 1, 0; 1998 KV₃₃, 3, 1, 0; 1998 KQ₄₄, 3, 1, 0; 1998 KG₆₄, 3, 1, 0; 1998 MZ₈, 3, 1, 0; 1998 MG₁₆, 3, 1, 0; 1998 MX₄₀, 3, 1, 0; 1998 OU₁₂, 3, 1, 0; 1998 OK₁₃, 3, 1, 0; 1998 OV₁₃, 3, 1, 0; 1998 QZ₁, 3, 1, 0; 1998 QT₇, 3, 1, 0; 1998 QW₁₃, 6, 2, 30; 1998 QS₂₀, 3, 1, 0; 1998 QW₂₃, 9, 3, 5; 1998 QV₂₄, 3, 1, 0; 1998 QM₂₆, 3, 1, 0; 1998 QA₃₄, 3, 1, 0; 1998 QT₃₇, 6, 2, 1; 1998 QL₃₈, 21, 6, 12; 1998 QA₄₁, 12, 4, 64; 1998 QD₄₁, 6, 2, 3; 1998 QL₄₁, 3, 1, 0; 1998 QY₄₇, 3, 1, 0; 1998 QV₅₅, 3, 1, 0; 1998 QF₈₀, 3, 1, 0; 1998 QR₉₁, 9, 3, 14; 1998 QS₉₁, 3, 1, 0; 1998 QC₉₂, 6,

2000 APR. 18

M.P.C. 39731

3, 1, 0; 1998 SL₁₁₀, 3, 1, 0; 1998 SE₁₁₁, 3, 1, 0; 1998 SX₁₁₅, 3, 1, 0; 1998 SV₁₁₇, 9, 3, 13; 1998 SC₁₁₈, 3, 1, 0; 1998 SL₁₁₈, 3, 1, 0; 1998 SY₁₁₈, 3, 1, 0; 1998 SC₁₁₉, 3, 1, 0; 1998 SB₁₂₂, 6, 2, 82; 1998 SC₁₂₂, 6, 2, 9; 1998 SW₁₂₂, 9, 3, 13; 1998 SD₁₂₃, 3, 1, 0; 1998 SX₁₂₃, 6, 1, 0; 1998 SE₁₂₄, 3, 1, 0; 1998 SH₁₂₄, 3, 1, 0; 1998 SK₁₂₄, 3, 1, 0; 1998 SK₁₂₅, 3, 1, 0; 1998 SK₁₂₇, 3, 1, 0; 1998 SF₁₃₀, 3, 1, 0; 1998 SK₁₃₂, 3, 1, 0; 1998 SB₁₃₄, 3, 1, 0; 1998 SC₁₃₄, 3, 1, 0; 1998 SP₁₃₄, 3, 1, 0; 1998 SR₁₃₄, 6, 2, 13; 1998 SB₁₃₅, 12, 4, 8; 1998 SR₁₃₅, 3, 1, 0; 1998 ST₁₃₅, 12, 3, 9; 1998 SK₁₃₇, 3, 1, 0; 1998 SG₁₄₂, 6, 2, 5; 1998 SM₁₄₄, 6, 2, 6; 1998 SQ₁₄₄, 3, 1, 0; 1998 SX₁₄₄, 3, 1, 0; 1998 SH₁₄₅, 3, 1, 0; 1998 SC₁₆₄, 3, 1, 0; 1998 TA₆, 6, 2, 8; 1998 TH₉, 3, 1, 0; 1998 TX₁₂, 3, 1, 0; 1998 TV₁₃, 3, 1, 0; 1998 TH₁₅, 3, 1, 0; 1998 TW₁₇, 3, 1, 0; 1998 TE₂₇, 3, 1, 0; 1998 TJ₂₉, 3, 1, 0; 1998 TX₃₀, 3, 1, 0; 1998 TC₃₂, 3, 1, 0; 1998 TA₃₃, 3, 1, 0; 1998 TD₃₃, 3, 1, 0; 1998 TM₃₃, 6, 2, 18; 1998 TE₃₄, 3, 1, 0; 1998 UX₂, 3, 1, 0; 1998 UF₄, 3, 1, 0; 1998 UL₆, 3, 1, 0; 1998 UH₇, 3, 1, 0; 1998 UX₁₅, 3, 1, 0; 1998 UV₁₉, 3, 1, 0; 1998 UX₁₉, 3, 1, 0; 1998 US₂₀, 3, 1, 0; 1998 UN₂₂, 6, 2, 82; 1998 UZ₂₂, 9, 3, 13; 1998 UA₂₄, 3, 1, 0; 1998 UG₂₉, 3, 1, 0; 1998 UL₃₃, 3, 1, 0; 1998 UL₄₂, 6, 2, 472; 1998 UO₄₅, 8, 3, 27; 1998 UV₄₇, 3, 1, 0; 1998 VZ₁, 9, 3, 82; 1998 VK₄, 3, 1, 0; 1998 VT₄, 3, 1, 0; 1998 VW₄, 6, 2, 9; 1998 VC₅, 9, 3, 1587; 1998 VH₆, 3, 1, 0; 1998 VG₇, 5, 2, 1456; 1998 VH₉, 3, 1, 0; 1998 VW₁₂, 12, 3, 2; 1998 VB₁₃, 12, 3, 4; 1998 VD₁₄, 6, 2, 21; 1998 VO₂₂, 6, 2, 1; 1998 VM₂₅, 6, 2, 505; 1998 VY₂₅, 3, 1, 0; 1998 VW₃₀, 9, 3, 13; 1998 VH₃₁, 3, 1, 0; 1998 VA₃₃, 6, 2, 1590; 1998 VX₃₃, 9, 3, 1083; 1998 VV₃₄, 6, 2, 10; 1998 VH₃₅, 3, 1, 0; 1998 VT₃₈, 3, 1, 0; 1998 WB₃, 3, 1, 0; 1998 WE₃, 9, 3, 2; 1998 WK₃, 6, 2, 3; 1998 WF₃, 3, 1, 0; 1998 WD₄, 3, 1, 0; 1998 WE₅, 6, 2, 2; 1998 WN₅, 3, 1, 0; 1998 WK₈, 3, 1, 0; 1998 WM₉, 2, 1, 0; 1998 WR₉, 3, 1, 0; 1998 WQ₁₃, 9, 3, 14; 1998 WJ₁₄, 3, 1, 0; 1998 WT₁₄, 3, 1, 0; 1998 WG₁₇, 3, 1, 0; 1998 WJ₁₉, 6, 2, 5; 1998 WZ₂₁, 3, 1, 0; 1998 WL₂₃, 6, 2, 78; 1998 WH₃₃, 3, 1, 0; 1998 WL₃₃, 9, 3, 16; 1998 XL₁, 6, 2, 1868; 1998 XG₅, 3, 1, 0; 1998 XO₅, 2, 1, 0; 1998 XX₅, 3, 1, 0; 1998 XO₁₁, 3, 1, 0; 1998 XH₁₂, 3, 1, 0; 1998 XS₁₃, 3, 1, 0; 1998 XE₁₇, 9, 3, 57; 1998 XR₂₀, 9, 3, 389; 1998 XY₂₀, 3, 1, 0; 1998 XF₂₂, 3, 1, 0; 1998 XQ₄₇, 3, 1, 0; 1998 XQ₇₇, 3, 1, 0; 1998 XE₈₃, 3, 1, 0; 1998 XQ₈₇, 6, 2, 6; 1998 XV₉₅, 9, 3, 920; 1998 YB₃, 3, 1, 0; 1998 YC₁, 9, 3, 13; 1998 YD₂, 3, 1, 0; 1998 YA₃, 6, 2, 9; 1998 YD₄, 3, 1, 0; 1998 YJ₄, 3, 1, 0; 1998 YZ₁₁, 3, 1, 0; 1998 YP₁₂, 3, 1, 0; 1998 YV₁₆, 3, 1, 0; 1998 YG₁₇, 3, 1, 0; 1998 YS₁₇, 3, 1, 0; 1998 YT₂₉, 3, 1, 0; 1999 AR₄, 3, 1, 0; 1999 AH₇, 6, 2, 14; 1999 AP₉, 6, 2, 7; 1999 AR₃₀, 6, 2, 15; 1999 AD₃₃, 3, 1, 0; 1999 BD₄, 9, 3, 13; 1999 BN₅, 6, 2, 4; 1999 BN₁₄, 3, 1, 0; 1999 BQ₂₈, 3, 1, 0; 1999 CA₃, 3, 1, 0; 1999 CX₄, 3, 1, 0; 1999 CO₁₆, 3, 1, 0; 1999 CV₁₇, 3, 1, 0; 1999 CY₁₉, 3, 1, 0; 1999 CS₂₃, 3, 1, 0; 1999 CJ₅₄, 6, 2, 8; 1999 CQ₈₂, 3, 1, 0; 1999 NV₈, 3, 1, 0; 1999 NM₉, 3, 1, 0; 1999 NP₁₀, 3, 1, 0; 1999 RP₁₈, 3, 1, 0; 1999 RO₂₀, 6, 2, 4; 1999 RP₂₇, 3, 1, 0; 1999 RQ₂₇, 3, 1, 0; 1999 RU₂₇, 3, 1, 0; 1999 RT₃₁, 3, 1, 0; 1999 RZ₃₇, 3, 1, 0; 1999 RA₃₈, 3, 1, 0; 1999 RC₃₈, 3, 1, 0; 1999 RO₃₈, 3, 1, 0; 1999 RV₄₀, 6, 2, 5; 1999 RT₄₃, 6, 2, 5; 1999 RA₄₄, 3, 1, 0; 1999 RC₄₉, 3, 1, 0; 1999 RW₄₉, 3, 1, 0; 1999 RL₅₀, 3, 1, 0; 1999 RK₇₆, 3, 1, 0; 1999 RL₇₆, 3, 1, 0; 1999 RM₇₆, 3, 1, 0; 1999 RJ₈₄, 6, 2, 4; 1999 RC₈₅, 3, 1, 0; 1999 RV₈₅, 3, 1, 0; 1999 RL₈₇, 6, 2, 5; 1999 RS₈₇, 3, 1, 0; 1999 RS₈₈, 3, 1, 0; 1999 RX₁₀₈, 3, 1, 0; 1999 RY₁₄₁, 3, 1, 0; 1999 RW₁₄₃, 3, 1, 0; 1999 RW₁₄₃, 6, 2, 4; 1999 RX₁₆₄, 3, 1, 0; 1999 RZ₁₆₈, 3, 1, 0; 1999 RJ₁₇₀, 3, 1, 0; 1999 RT₁₇₅, 3, 1, 0; 1999 RH₁₇₆, 3, 1, 0; 1999 RK₁₇₆, 6, 2, 4; 1999 RM₁₇₆, 6, 2, 4; 1999 RP₁₇₆, 6, 2, 3; 1999 RQ₁₇₆, 3, 1, 0; 1999 RG₁₈₂, 6, 2, 8; 1999 RH₁₈₂, 3, 1, 0; 1999 RS₁₈₂, 6, 2, 3; 1999 RT₁₈₂, 6, 2, 3; 1999 RY₁₈₉, 3, 1, 0; 1999 RF₁₉₀, 6, 2, 8; 1999 RS₁₉₀, 6, 2, 3; 1999 RC₁₉₈, 3, 1, 0; 1999 RQ₂₀₂, 3, 1, 0; 1999 RZ₂₀₅, 3, 1, 0; 1999 RZ₂₀₆, 3, 1, 0; 1999 RT₂₁₃, 3, 1, 0; 1999 SU₁, 3, 1, 0; 1999 SJ₂, 3, 1, 0; 1999 SU₆, 3, 1, 0; 1999 TK₅, 3, 1, 0; 1999 TA₆, 3, 1, 0; 1999 TQ₈, 3, 1, 0; 1999 TN₉, 3, 1, 0; 1999 TQ₉, 3, 1, 0; 1999 TS₉, 6, 2, 5; 1999 TK₁₁, 3, 1, 0; 1999 TL₁₁, 3, 1, 0; 1999 TN₁₄, 3, 1, 0; 1999 TK₁₆, 3, 1, 0; 1999 TS₁₆, 6, 2, 5; 1999 TE₁₇, 3, 1, 0; 1999 TF₁₇, 3, 1, 0; 1999 TO₂₀, 3, 1, 0; 1999 TA₂₁, 3, 1, 0; 1999 TL₂₁, 3, 1, 0; 1999 TP₂₁, 3, 1, 0; 1999 TQ₂₁, 3, 1, 0; 1999 TS₂₁, 3, 1, 0; 1999 TU₂₁, 3, 1, 0; 1999 TW₂₄, 6, 2, 4; 1999 TE₂₅, 6, 2, 6; 1999 TG₂₅, 9, 3, 12; 1999 TK₂₅, 6, 2, 5; 1999 TM₂₅, 6, 2, 2; 1999 TC₂₇, 3, 1, 0; 1999 TE₂₇, 3, 1, 0; 1999 TG₂₇, 3, 1, 0; 1999 TN₂₇, 3, 1, 0; 1999 TM₃₂, 3, 1, 0; 1999 TN₃₂, 6, 2, 6; 1999 TV₃₄, 3, 1, 0; 1999 UA₁, 3, 1, 0; 1999 UO₃, 6, 2, 4; 1999 UU₄, 3, 1, 0; 1999 UC₅, 6, 2, 1; 1999 UH₆, 6, 2, 5; 1999 UL₆, 3, 1, 0; 1999 US₈, 3, 1, 0; 1999 UZ₂₅, 3, 1, 0; 1999 UL₂₆, 3, 1, 0; 1999 UM₂₆, 3, 1, 0; 1999 UQ₂₉, 3, 1, 0; 1999 VG₃, 6, 2, 6; 1999 VT₄, 3, 1, 0; 1999 VX₄, 6, 2, 6; 1999 VA₅, 9, 3, 12; 1999 VB₅, 9, 3, 12; 1999 VC₅, 6, 2, 5; 1999 VG₅, 3, 1, 0; 1999 VA₇, 3, 1, 0; 1999 VD₇, 6, 2, 1; 1999 VG₇, 6, 2, 1; 1999 VQ₇, 3, 1, 0; 1999 VM₁₂, 3, 1, 0; 1999 VG₂₁, 6, 2, 5; 1999 VH₂₁, 3, 1, 0; 1999 VM₂₁, 3, 1, 0; 1999 VT₂₇, 3, 1, 0; 1999 VO₄₀, 3, 1, 0; 1999 VS₅₅, 3, 1, 0; 1999 VX₅₅, 3, 1, 0; 1999 VB₅₇, 6, 2, 1; 1999 VR₅₉, 3, 1, 0; 1999 VS₅₉, 12, 4, 12; 1999 VA₆₀, 3, 1, 0; 1999 VC₆₀, 9, 3, 11; 1999 VD₆₀, 12, 4, 12; 1999 VN₆₁, 9, 3, 12; 1999 VP₆₁, 6, 2, 7; 1999 VS₆₁, 3, 1, 0; 1999 VV₆₁, 3, 1, 0; 1999 VA₆₂, 3, 1, 0; 1999 VL₆₂, 6, 2, 3; 1999 VB₆₄, 3, 1, 0; 1999 VW₆₅, 6, 2, 65; 1999 VX₆₅, 6, 2, 6; 1999 VG₆₆, 6, 2, 4; 1999 VA₆₇, 6, 2, 4; 1999 VP₆₇, 6, 2, 4; 1999 VQ₆₇, 3, 1, 0; 1999 VP₆₉, 3, 1, 0; 1999 VR₈₁, 3, 1, 0; 1999 VS₈₅, 6, 2, 5; 1999 VA₈₆, 6, 2, 5; 1999 VP₉₀, 6, 2, 3; 1999 VK₉₁, 3, 1, 0; 1999 VD₉₇, 3, 1, 0; 1999 VR₁₁₄, 8, 3, 852; 1999 VF₁₅₀, 9, 3, 12; 1999 WR₃, 3, 1, 0; 1999 WL₄, 3, 1, 0; 1999 WT₁₁, 3, 1, 0; 1999 WB₁₄, 3, 1, 0; 1999 XE₁₈, 3, 1, 0; 1999 XJ₁₈, 6, 2, 8; 1999 XV₁₈, 3, 1, 0; 1999 XN₁₉, 3, 1, 0; 1999 XQ₂₁, 3, 1, 0; 1999 XD₂₂, 6, 2, 2; 1999 XG₂₃, 3, 1, 0; 1999 XZ₂₃, 3, 1, 0; 1999 XD₂₅, 6, 2, 5; 1999 XH₂₅, 3, 1, 0; 1999 XH₂₆, 3, 1, 0; 1999 XU₂₆, 6, 2, 4; 1999 XP₂₇, 6, 2, 4; 1999 XT₂₇, 6, 2, 6; 1999 XF₅₀, 3, 1, 0; 1999 XE₈₅, 3, 1, 0; 1999 XQ₈₅, 3, 1, 0; 1999 XR₈₆, 3, 1, 0; 1999 XS₈₆, 3, 1, 0; 1999 XG₈₇, 3, 1, 0; 1999 XF₉₁, 3, 1, 0; 1999 XK₉₁, 3, 1, 0; 1999 XD₉₄, 3, 1, 0; 1999 XM₉₄, 3, 1, 0; 1999 XK₁₀₁, 3, 1, 0; 1999 XY₁₀₁, 6, 2, 4; 1999 XZ₁₀₁, 3, 1, 0; 1999 XV₁₀₃, 3, 1, 0; 1999 XW₁₀₅, 3, 1, 0; 1999 XU₁₀₆,

3, 1, 0; 1999 XW₁₀₆, 3, 1, 0; 1999 XX₁₀₆, 12, 4, 13; 1999 XR₁₀₇, 6, 2, 6; 1999 XY₁₁₀, 3, 1, 0; 1999 XB₁₁₇, 3, 1, 0; 1999 XQ₁₃₇, 3, 1, 0; 1999 XV₁₃₉, 6, 2, 56; 1999 XB₁₄₀, 6, 2, 2; 1999 XS₁₄₀, 6, 2, 55; 1999 XU₁₄₃, 3, 1, 0; 1999 XP₁₅₁, 3, 1, 0; 1999 XW₁₅₁, 3, 1, 0; 1999 XW₁₆₂, 3, 1, 0; 1999 XO₁₆₃, 6, 2, 3; 1999 XO₁₇₅, 3, 1, 0; 1999 XV₁₇₆, 3, 1, 0; 1999 XQ₂₁₆, 3, 1, 0; 1999 XU₂₁₆, 3, 1, 0; 1999 XN₂₁₇, 6, 2, 3; 1999 XK₂₂₄, 3, 1, 0; 1999 XX₂₂₆, 3, 1, 0; 1999 XF₂₂₇, 3, 1, 0; 1999 XL₂₂₇, 9, 2, 3; 1999 XM₂₂₇, 3, 1, 0; 1999 XS₂₂₈, 3, 1, 0; 1999 YH₅, 3, 1, 0; 1999 YX₇, 3, 1, 0; 1999 YD₈, 6, 2, 3; 1999 YF₉, 3, 1, 0; 1999 YV₁₃, 3, 1, 0; 1999 YL₁₆, 3, 1, 0; 2000 AC₃, 3, 1, 0; 2000 AL₄, 3, 1, 0; 2000 AX₄, 3, 1, 0; 2000 AY₅, 3, 1, 0; 2000 AN₆, 3, 1, 0; 2000 AP₁₄, 3, 1, 0; 2000 AC₂₈, 3, 1, 0; 2000 AM₃₁, 3, 1, 0; 2000 AG₄₀, 3, 1, 0; 2000 AK₄₅, 3, 1, 0; 2000 AM₄₇, 3, 1, 0; 2000 AO₄₇, 6, 1, 0; 2000 AP₄₇, 3, 1, 0; 2000 AH₄₉, 3, 1, 0; 2000 AN₄₉, 6, 2, 3; 2000 AO₅₀, 3, 1, 0; 2000 AM₅₂, 3, 1, 0; 2000 AJ₅₄, 3, 1, 0; 2000 AW₅₄, 3, 1, 0; 2000 AA₅₅, 3, 1, 0; 2000 AY₅₅, 3, 1, 0; 2000 AA₅₆, 3, 1, 0; 2000 AC₅₆, 6, 2, 5; 2000 AE₅₆, 6, 2, 7; 2000 AL₅₆, 6, 2, 8; 2000 AM₅₆, 3, 1, 0; 2000 AM₅₇, 3, 1, 0; 2000 AD₅₈, 3, 1, 0; 2000 AS₅₈, 3, 1, 0; 2000 AL₅₉, 3, 1, 0; 2000 AU₆₁, 3, 1, 0; 2000 AV₆₁, 9, 3, 2; 2000 AZ₆₁, 3, 1, 0; 2000 AF₆₂, 3, 1, 0; 2000 AT₆₃, 3, 1, 0; 2000 AC₆₄, 6, 1, 0; 2000 AB₆₅, 3, 1, 0; 2000 AD₆₆, 3, 1, 0; 2000 AJ₆₇, 3, 1, 0; 2000 AP₆₇, 3, 1, 0; 2000 AM₈₃, 3, 1, 0; 2000 AN₈₃, 3, 1, 0; 2000 AP₈₃, 3, 1, 0; 2000 AQ₈₃, 3, 1, 0; 2000 AJ₈₅, 3, 1, 0; 2000 AH₈₆, 3, 1, 0; 2000 AJ₈₇, 3, 1, 0; 2000 AR₈₈, 6, 2, 7; 2000 AW₈₈, 3, 1, 0; 2000 AZ₈₈, 3, 1, 0; 2000 AN₈₉, 3, 1, 0; 2000 AP₉₁, 3, 1, 0; 2000 AE₉₅, 3, 1, 0; 2000 AP₉₅, 3, 1, 0; 2000 AZ₉₅, 3, 1, 0; 2000 AO₉₆, 3, 1, 0; 2000 AZ₉₆, 3, 1, 0; 2000 AD₁₂₄, 3, 1, 0; 2000 AZ₁₂₅, 3, 1, 0; 2000 AC₁₂₆, 3, 1, 0; 2000 AT₁₂₆, 3, 1, 0; 2000 AW₁₂₆, 3, 1, 0; 2000 AS₁₂₇, 3, 1, 0; 2000 AU₁₂₇, 3, 1, 0; 2000 AW₁₂₇, 3, 1, 0; 2000 AS₁₂₈, 3, 1, 0; 2000 AU₁₂₈, 3, 1, 0; 2000 AU₁₂₉, 6, 2, 3; 2000 AM₁₃₀, 3, 1, 0; 2000 AC₁₃₁, 3, 1, 0; 2000 AS₁₃₅, 3, 1, 0; 2000 AB₁₃₈, 3, 1, 0; 2000 AR₁₄₃, 3, 1, 0; 2000 AH₁₄₄, 3, 1, 0; 2000 AT₁₆₁, 3, 1, 0; 2000 AJ₁₆₂, 3, 1, 0; 2000 AR₁₆₂, 3, 1, 0; 2000 AN₁₆₈, 6, 2, 1; 2000 AV₂₀₂, 3, 1, 0; 2000 AG₂₁₂, 6, 2, 55; 2000 AJ₂₁₂, 3, 1, 0; 2000 AK₂₁₂, 3, 1, 0; 2000 AM₂₁₂, 3, 1, 0; 2000 AJ₂₁₈, 3, 1, 0; 2000 AD₂₂₂, 6, 2, 5; 2000 AF₂₂₂, 9, 3, 8; 2000 AF₂₂₇, 6, 2, 4; 2000 AO₂₂₇, 3, 1, 0; 2000 AQ₂₂₇, 15, 5, 64; 2000 AT₂₂₇, 3, 1, 0; 2000 AO₂₃₂, 3, 1, 0; 2000 AU₂₃₂, 3, 1, 0; 2000 AK₂₃₆, 3, 1, 0; 2000 AO₂₃₇, 3, 1, 0; 2000 AQ₂₃₇, 3, 1, 0; 2000 AV₂₃₇, 3, 1, 0; 2000 AF₂₄₂, 3, 1, 0; 2000 AL₂₄₆, 3, 1, 0; 2000 BA₂, 3, 1, 0; 2000 BF₃, 6, 2, 8; 2000 BA₄, 3, 1, 0; 2000 BV₅, 3, 1, 0; 2000 BS₉, 9, 3, 2; 2000 BB₁₀, 3, 1, 0; 2000 BK₁₀, 3, 1, 0; 2000 BH₁₃, 9, 3, 2; 2000 BO₁₃, 3, 1, 0; 2000 BV₁₆, 3, 1, 0; 2000 BE₁₇, 3, 1, 0; 2000 BG₁₉, 6, 2, 5; 2000 BH₁₉, 3, 1, 0; 2000 BQ₂₀, 3, 1, 0; 2000 BU₂₀, 6, 2, 5; 2000 BM₂₂, 3, 1, 0; 2000 BQ₂₂, 3, 1, 0; 2000 BB₂₃, 3, 1, 0; 2000 BC₂₃, 3, 1, 0; 2000 BE₂₃, 3, 1, 0; 2000 BC₂₅, 3, 1, 0; 2000 BF₂₅, 3, 1, 0; 2000 BM₂₅, 3, 1, 0; 2000 BK₂₆, 6, 1, 0; 2000 BL₂₆, 3, 1, 0; 2000 BV₂₆, 3, 1, 0; 2000 BL₂₇, 6, 2, 1; 2000 BM₂₇, 3, 1, 0; 2000 BN₂₇, 9, 2, 1; 2000 BO₂₈, 2, 1, 0; 2000 BK₃₀, 3, 1, 0; 2000 CY₃, 3, 1, 0; 2000 CE₁, 3, 1, 0; 2000 CN₁, 3, 1, 0; 2000 CC₁₀, 3, 1, 0; 2000 CV₂₀, 3, 1, 0; 2000 CR₂₄, 3, 1, 0; 2000 CA₂₆, 3, 1, 0; 2000 CD₂₆, 3, 1, 0; 2000 CL₂₆, 3, 1, 0; 2000 CN₂₆, 3, 1, 0; 2000 CX₂₇, 3, 1, 0; 2000 CC₃₀, 3, 1, 0; 2000 CN₃₀, 3, 1, 0; 2000 CR₃₁, 3, 1, 0; 2000 CH₃₂, 3, 1, 0; 2000 CU₃₂, 6, 2, 99; 2000 CY₃₂, 3, 1, 0; 2000 CA₃₃, 3, 1, 0; 2000 CB₃₃, 3, 1, 0; 2000 CC₃₃, 9, 3, 69; 2000 CE₃₃, 3, 1, 0; 2000 CS₃₃, 3, 1, 0; 2000 CT₃₃, 6, 1, 0; 2000 CE₃₆, 3, 1, 0; 2000 CO₃₇, 3, 1, 0; 2000 CW₃₇, 3, 1, 0; 2000 CR₃₉, 3, 1, 0; 2000 CJ₄₅, 6, 2, 3; 2000 CL₄₆, 3, 1, 0; 2000 CB₄₈, 18, 5, 143; 2000 CY₄₈, 9, 3, 12; 2000 CE₄₉, 6, 2, 4; 2000 CF₄₉, 3, 1, 0; 2000 CN₅₀, 3, 1, 0; 2000 CQ₅₀, 3

2000 CV₁₀₇, 3, 1, 0; 2000 CW₁₀₇, 3, 1, 0; 2000 CX₁₀₇, 3, 1, 0; 2000 CY₁₀₇, 3, 1, 0; 2000 CZ₁₀₇, 3, 1, 0; 2000 CV₁₀₈, 3, 1, 0; 2000 CW₁₀₈, 3, 1, 0; 2000 CX₁₀₈, 3, 1, 0; 2000 CY₁₀₈, 3, 1, 0; 2000 CZ₁₀₈, 3, 1, 0; 2000 CA₁₀₉, 3, 1, 0; 2000 CB₁₀₉, 3, 1, 0; 2000 CC₁₀₉, 3, 1, 0; 2000 CL₁₀₉, 3, 1, 0; 2000 CM₁₀₉, 3, 1, 0; 2000 CN₁₀₉, 3, 1, 0; 2000 CO₁₀₉, 3, 1, 0; 2000 CP₁₀₉, 3, 1, 0; 2000 CQ₁₀₉, 3, 1, 0; 2000 CS₁₀₉, 3, 1, 0; 2000 CU₁₀₉, 3, 1, 0; 2000 CV₁₀₉, 3, 1, 0; 2000 CW₁₀₉, 3, 1, 0; 2000 CX₁₀₉, 3, 1, 0; 2000 CY₁₀₉, 3, 1, 0; 2000 CZ₁₀₉, 3, 1, 0; 2000 CA₁₁₀, 3, 1, 0; 2000 CB₁₁₀, 3, 1, 0; 2000 CC₁₁₀, 3, 1, 0; 2000 CE₁₁₀, 3, 1, 0; 2000 CF₁₁₀, 3, 1, 0; 2000 CG₁₁₀, 3, 1, 0; 2000 CH₁₁₀, 3, 1, 0; 2000 CJ₁₁₀, 3, 1, 0; 2000 CK₁₁₀, 3, 1, 0; 2000 CL₁₁₀, 3, 1, 0; 2000 CM₁₁₀, 3, 1, 0; 2000 CN₁₁₀, 3, 1, 0; 2000 CO₁₁₀, 6, 1, 0; 2000 CP₁₁₀, 3, 1, 0; 2000 CR₁₁₀, 3, 1, 0; 2000 CS₁₁₀, 3, 1, 0; 2000 CY₁₁₀, 3, 1, 0; 2000 CZ₁₁₀, 3, 1, 0; 2000 CA₁₁₁, 3, 1, 0; 2000 CB₁₁₁, 3, 1, 0; 2000 CC₁₁₁, 3, 1, 0; 2000 CD₁₁₁, 3, 1, 0; 2000 CE₁₁₁, 3, 1, 0; 2000 CF₁₁₁, 3, 1, 0; 2000 CH₁₁₁, 3, 1, 0; 2000 CW₁₁₁ *, 3, 1, 0; 2000 CX₁₁₁ *, 3, 1, 0; 2000 CY₁₁₁ *, 3, 1, 0; 2000 CZ₁₁₁ *, 3, 1, 0; 2000 CA₁₁₂ *, 3, 1, 0; 2000 CB₁₁₂ *, 3, 1, 0; 2000 CC₁₁₂ *, 3, 1, 0; 2000 CP₁₁₂, 6, 1, 0; 2000 CW₁₁₂ *, 3, 1, 0; 2000 CA₁₁₃ *, 6, 2, 4; 2000 CB₁₁₃ *, 3, 1, 0; 2000 CC₁₁₃ *, 6, 2, 3; 2000 CD₁₁₃ *, 3, 1, 0; 2000 CE₁₁₃ *, 3, 1, 0; 2000 CF₁₁₃ *, 3, 1, 0; 2000 CG₁₁₃ *, 3, 1, 0; 2000 CH₁₁₃ *, 3, 1, 0; 2000 CK₁₁₃ *, 3, 1, 0; 2000 CL₁₁₃ *, 3, 1, 0; 2000 CM₁₁₃ *, 6, 1, 0; 2000 CN₁₁₃ *, 3, 1, 0; 2000 CO₁₁₃ *, 3, 1, 0; 2000 CP₁₁₃ *, 9, 2, 1; 2000 CQ₁₁₃, 3, 1, 0; 2000 CR₁₁₃, 3, 1, 0; 2000 CS₁₁₃, 3, 1, 0; 2000 CT₁₁₃, 3, 1, 0; 2000 CU₁₁₃, 3, 1, 0; 2000 CV₁₁₃ *, 3, 1, 0; 2000 CW₁₁₃ *, 3, 1, 0; 2000 CX₁₁₃ *, 3, 1, 0; 2000 CY₁₁₃ *, 3, 1, 0; 2000 CZ₁₁₃ *, 3, 1, 0; 2000 DP₁, 6, 2, 6; 2000 DY₁, 3, 1, 0; 2000 DL₃, 3, 1, 0; 2000 DR₃, 3, 1, 0; 2000 DP₅, 3, 1, 0; 2000 DX₇, 3, 1, 0; 2000 DA₁₁, 3, 1, 0; 2000 DF₁₃, 3, 1, 0; 2000 DH₁₄, 3, 1, 0; 2000 DN₁₄, 3, 1, 0; 2000 DC₁₆, 9, 3, 11; 2000 DH₁₆, 6, 2, 14; 2000 DJ₁₆, 3, 1, 0; 2000 DK₁₆, 3, 1, 0; 2000 DL₁₆, 9, 3, 13; 2000 DW₁₈, 3, 1, 0; 2000 DU₂₀, 3, 1, 0; 2000 DW₂₀, 3, 1, 0; 2000 DP₂₁, 3, 1, 0; 2000 DF₂₂, 6, 2, 24; 2000 DK₂₂, 6, 2, 1; 2000 DQ₂₂, 6, 2, 20; 2000 DX₂₂, 3, 1, 0; 2000 DG₂₃, 9, 3, 30; 2000 DJ₂₃, 6, 2, 1; 2000 DZ₂₃, 3, 1, 0; 2000 DF₂₄, 3, 1, 0; 2000 DR₂₄, 3, 1, 0; 2000 DS₂₄, 3, 1, 0; 2000 DH₂₆, 3, 1, 0; 2000 DR₂₆, 6, 2, 34; 2000 DD₂₇, 12, 4, 4; 2000 DQ₂₇, 6, 2, 8; 2000 DA₂₉, 3, 1, 0; 2000 DL₂₉, 3, 1, 0; 2000 DS₂₉, 9, 3, 7; 2000 DW₂₉, 3, 1, 0; 2000 DY₂₉, 6, 2, 98; 2000 DH₃₀, 15, 5, 8; 2000 DQ₃₁, 12, 4, 2691; 2000 DC₃₂, 12, 4, 12; 2000 DD₃₂, 9, 3, 5; 2000 DP₃₂, 15, 4, 12; 2000 DQ₃₂, 3, 1, 0; 2000 DT₃₂, 6, 2, 4; 2000 DW₃₂, 6, 2, 2; 2000 DX₃₂, 6, 2, 5; 2000 DY₃₂, 3, 1, 0; 2000 DB₃₃, 3, 1, 0; 2000 DE₃₃, 9, 3, 16; 2000 DG₃₃, 3, 1, 0; 2000 DJ₃₃, 9, 3, 64; 2000 DK₃₃, 3, 1, 0; 2000 DL₃₃, 6, 2, 2; 2000 DM₃₃, 3, 1, 0; 2000 DT₃₃, 6, 2, 8; 2000 DW₃₃, 12, 4, 17; 2000 DZ₃₃, 12, 4, 66; 2000 DA₃₄, 18, 5, 8; 2000 DB₃₄, 6, 2, 2; 2000 DK₃₄, 6, 2, 5; 2000 DL₃₄, 9, 3, 5; 2000 DY₃₄, 9, 3, 3; 2000 DQ₃₅, 6, 2, 4; 2000 DU₃₅, 3, 1, 0; 2000 DV₃₅, 9, 3, 87; 2000 DW₃₅, 3, 1, 0; 2000 DY₃₅, 18, 5, 8; 2000 DZ₃₅, 12, 4, 65; 2000 DA₃₆, 3, 1, 0; 2000 DB₃₆, 6, 2, 4; 2000 DF₃₆, 3, 1, 0; 2000 DL₃₆, 3, 1, 0; 2000 DM₃₆, 9, 3, 11; 2000 DN₃₆, 9, 3, 7; 2000 DO₃₆, 6, 2, 2; 2000 DX₃₆, 3, 1, 0; 2000 DA₃₇, 9, 3, 12; 2000 DG₃₇, 3, 1, 0; 2000 DQ₃₇, 3, 1, 0; 2000 DB₃₈, 3, 1, 0; 2000 DE₃₈, 15, 5, 66; 2000 DG₃₈, 3, 1, 0; 2000 DJ₃₈, 9, 3, 55; 2000 DN₃₈, 12, 4, 54; 2000 DU₃₈, 9, 3, 5; 2000 DE₃₉, 3, 1, 0; 2000 DK₄₀, 3, 1, 0; 2000 DT₄₀, 3, 1, 0; 2000 DW₄₀, 3, 1, 0; 2000 DR₄₁, 3, 1, 0; 2000 DA₄₂, 3, 1, 0; 2000 DR₄₂, 3, 1, 0; 2000 DT₄₂, 3, 1, 0; 2000 DF₄₃, 3, 1, 0; 2000 DH₄₃, 3, 1, 0; 2000 DM₄₃, 3, 1, 0; 2000 DX₄₃, 3, 1, 0; 2000 DD₄₄, 6, 2, 4; 2000 DO₄₅, 3, 1, 0; 2000 DP₄₅, 3, 1, 0; 2000 DA₄₇, 6, 2, 1447; 2000 DO₄₈, 3, 1, 0; 2000 DQ₄₈, 9, 3, 5; 2000 DR₄₈, 9, 3, 7; 2000 DX₄₈, 15, 5, 17; 2000 DC₄₉, 9, 3, 11; 2000 DS₄₉, 6, 2, 4; 2000 DD₅₂, 3, 1, 0; 2000 DX₅₂, 3, 1, 0; 2000 DG₅₃, 3, 1, 0; 2000 DL₅₄, 3, 1, 0; 2000 DL₅₆, 3, 1, 0; 2000 DG₅₇, 3, 1, 0; 2000 DJ₅₇, 3, 1, 0; 2000 DQ₅₈, 3, 1, 0; 2000 DR₅₈, 9, 2, 29; 2000 DT₅₈, 6, 2, 29; 2000 DU₅₈, 3, 1, 0; 2000 DJ₅₉, 3, 1, 0; 2000 DY₅₉, 3, 1, 0; 2000 DL₆₀, 3, 1, 0; 2000 DP₆₀, 3, 1, 0; 2000 DZ₆₁, 3, 1, 0; 2000 DF₆₂, 6, 2, 2; 2000 DH₆₂, 3, 1, 0; 2000 DR₆₂, 3, 1, 0; 2000 DV₆₂, 3, 1, 0; 2000 DC₆₃, 3, 1, 0; 2000 DW₆₄, 3, 1, 0; 2000 DR₆₇, 3, 1, 0; 2000 DY₇₂, 3, 1, 0; 2000 DY₇₃, 3, 1, 0; 2000 DE₇₄, 3, 1, 0; 2000 DP₇₄, 3, 1, 0; 2000 DU₇₄, 3, 1, 0; 2000 DV₇₄, 3, 1, 0; 2000 DB₇₅, 3, 1, 0; 2000 DD₇₅, 3, 1, 0; 2000 DE₇₅, 6, 2, 8; 2000 DF₇₅, 3, 1, 0; 2000 DG₇₅, 6, 2, 8; 2000 DJ₇₅, 3, 1, 0; 2000 DN₇₅, 3, 1, 0; 2000 DB₇₆, 6, 2, 2; 2000 DD₇₆, 3, 1, 0; 2000 DF₇₇, 6, 2, 2; 2000 DG₇₇, 3, 1, 0; 2000 DY₇₇, 3, 1, 0; 2000 DZ₇₈, 3, 1, 0; 2000 DA₇₉, 3, 1, 0; 2000 DB₇₉, 3, 1, 0; 2000 DF₇₉, 3, 1, 0; 2000 DN₈₄, 3, 1, 0; 2000 DO₈₄, 3, 1, 0; 2000 DQ₈₄, 3, 1, 0; 2000 DD₈₈, 9, 3, 2; 2000 DZ₈₉, 3, 1, 0; 2000 DD₉₂, 3, 1, 0; 2000 DG₉₆, 6, 2, 16; 2000 DH₉₆, 6, 2, 1; 2000 DO₉₆, 12, 4, 5; 2000 DM₉₇, 9, 3, 7; 2000 DG₉₉, 3, 1, 0; 2000 DE₁₀₀, 3, 1, 0; 2000 DH₁₀₀, 3, 1, 0; 2000 DN₁₀₀, 3, 1, 0; 2000 DH₁₀₅, 3, 1, 0; 2000 DH₁₀₈, 3, 1, 0; 2000 DJ₁₀₈, 3, 1, 0; 2000 DH₁₁₁, 9, 3, 12; 2000 EA, 3, 1, 0; 2000 EO, 3, 1, 0; 2000 EU, 6, 2, 9; 2000 EX, 12, 4, 14; 2000 EY, 12, 3, 16; 2000 EP₁, 6, 2, 4; 2000 EQ₁, 6, 2, 4; 2000 EX₁, 12, 4, 54; 2000 EF₃, 3, 1, 0; 2000 EY₃, 3, 1, 0; 2000 EH₄, 3, 1, 0; 2000 EP₇, 3, 1, 0; 2000 EV₇, 3, 1, 0; 2000 EE₈, 3, 1, 0; 2000 EG₈, 6, 2, 23; 2000 EC₉, 3, 1, 0; 2000 EE₁₀, 3, 1, 0; 2000 EH₁₃, 9, 3, 4; 2000 EN₁₄, 3, 1, 0; 2000 EO₁₄, 3, 1, 0; 2000 EP₁₄, 3, 1, 0; 2000 EE₁₅, 3, 1, 0; 2000 EH₁₅, 3, 1, 0; 2000 EP₁₅, 5, 2, 2235; 2000 EC₁₆, 3, 1, 0; 2000 EX₁₆, 6, 2, 8; 2000 EB₁₇, 3, 1, 0; 2000 EC₁₇, 3, 1, 0; 2000 ED₁₇, 3, 1, 0; 2000 EE₁₇, 9, 3, 2719; 2000 EF₁₇, 3, 1, 0; 2000 EK₁₇, 4, 2, 2127; 2000 EL₁₇, 6, 2, 12; 2000 EC₂₀, 12, 3, 15; 2000 EC₂₃, 3, 1, 0; 2000 ER₂₃, 3, 1, 0; 2000 EM₂₄, 3, 1, 0; 2000 EO₂₄, 3, 1, 0; 2000 EY₂₅, 3, 1, 0; 2000 EH₂₆, 3, 1, 0; 2000 EJ₂₉, 3, 1, 0; 2000 EV₃₁, 3, 1, 0; 2000 ER₃₅, 3, 1, 0; 2000 EZ₃₆, 6, 2, 5; 2000 EB₃₇, 3, 1, 0; 2000 EC₃₇, 6, 2, 10; 2000 EE₃₇, 6, 2, 3; 2000 EF₃₇, 3, 1, 0; 2000 EG₃₇, 3, 1, 0; 2000 EV₃₇, 3, 1, 0; 2000 EW₃₇, 6, 2, 10; 2000 EN₃₈, 3, 1, 0; 2000 EH₃₈, 3, 1, 0; 2000 EO₃₈, 3, 1, 0; 2000 ER₃₈, 3, 1, 0; 2000 ES₃₈, 3, 1, 0; 2000 EW₃₈, 3, 1, 0; 2000 EC₃₉, 3, 1, 0; 2000 EE₃₉, 3, 1, 0; 2000 EG₃₉, 6, 2, 1; 2000 EH₃₉, 3, 1, 0; 2000 EC₄₀, 3, 1, 0; 2000 EF₄₀, 6, 2, 15; 2000 EH₄₀, 3, 1, 0;

2000 EJ₄₀, 3, 1, 0; 2000 EM₄₀, 3, 1, 0; 2000 EN₄₀, 3, 1, 0; 2000 EH₄₁, 6, 2, 553; 2000 EJ₄₁, 3, 1, 0; 2000 ER₄₁, 3, 1, 0; 2000 EZ₄₁, 8, 3, 2180; 2000 EA₄₂, 3, 1, 0; 2000 EE₄₂, 3, 1, 0; 2000 EH₄₂, 3, 1, 0; 2000 ET₄₂, 3, 1, 0; 2000 EU₄₂, 3, 1, 0; 2000 EZ₄₂, 3, 1, 0; 2000 EA₄₃, 3, 1, 0; 2000 EH₄₃, 3, 1, 0; 2000 EX₄₃, 6, 2, 6; 2000 EY₄₃, 6, 2, 6; 2000 EZ₄₃, 3, 1, 0; 2000 EE₄₅, 3, 1, 0; 2000 EN₄₅, 3, 1, 0; 2000 ET₄₅, 3, 1, 0; 2000 EE₄₆, 3, 1, 0; 2000 EF₄₆, 3, 1, 0; 2000 EH₄₆, 3, 1, 0; 2000 EA₄₇, 6, 2, 7; 2000 ES₄₆, 3, 1, 0; 2000 EV₄₆, 6, 2, 7; 2000 EW₄₆, 3, 1, 0; 2000 EY₄₆, 6, 2, 7; 2000 EA₄₇, 6, 2, 7; 2000 EB₄₇, 3, 1, 0; 2000 EC₄₇, 9, 3, 13; 2000 ED₄₇, 12, 4, 6; 2000 EG₄₇, 9, 3, 6; 2000 EH₄₇, 3, 1, 0; 2000 EJ₄₇, 6, 2, 5; 2000 EL₄₇, 3, 1, 0; 2000 EN₄₇, 3, 1, 0; 2000 EO₄₇, 3, 1, 0; 2000 EY₄₇, 9, 3, 7; 2000 ER₄₇, 6, 2, 6; 2000 ET₄₇, 3, 1, 0; 2000 EU₄₇, 6, 1, 0; 2000 EV₄₇, 3, 1, 0; 2000 EY₄₇, 6, 2, 7; 2000 EZ₄₇, 9, 3, 6; 2000 EB₄₈, 9, 3, 2042; 2000 EC₄₈, 9, 3, 14; 2000 EG₄₈, 15, 5, 14; 2000 EJ₄₈, 6, 2, 5; 2000 EM₄₈, 3, 1, 0; 2000 EN₄₈, 12, 4, 11; 2000 EO₄₈, 15, 5, 15; 2000 EP₄₈, 6, 2, 6; 2000 EQ₄₈, 18, 6, 973; 2000 ER₄₈, 6, 1, 0; 2000 ET₄₈, 15, 3, 4; 2000 EV₄₈, 6, 2, 5; 2000 EA₄₉, 3, 1, 0; 2000 ED₄₉, 6, 2, 6; 2000 EG₄₉, 9, 3, 8; 2000 EH₄₉, 6, 2, 2; 2000 ER₄₉, 3, 1, 0; 2000 ET₄₉, 3, 1, 0; 2000 EU₄₉, 3, 1, 0; 2000 EY₄₉, 3, 1, 0; 2000 EA₅₀, 3, 1, 0; 2000 EC₅₀, 6, 2, 12; 2000 EN₅₀, 6, 2, 7; 2000 ER₅₀, 3, 1, 0; 2000 EM₅₁, 3, 1, 0; 2000 EG₅₄, 6, 2, 14; 2000 EJ₅₄, 3, 1, 0; 2000 EK₅₄, 6, 2, 14; 2000 EP₅₄, 6, 2, 14; 2000 EY₅₄, 6, 2, 1477; 2000 EZ₅₄, 6, 2, 15; 2000 EZ₅₅, 6, 2, 5; 2000 EJ₅₆, 6, 2, 5; 2000 EP₅₆, 3, 1, 0; 2000 ET₅₆, 3, 1, 0; 2000 EZ₅₆, 6, 2, 4; 2000 EA₅₇, 6, 2, 8; 2000 EC₅₇, 6, 2, 25; 2000 EF₅₇, 9, 3, 33; 2000 EG₅₇, 6, 2, 9; 2000 EH₅₇, 3, 1, 0; 2000 EJ₅₇, 9, 3, 13; 2000 EK₅₇, 3, 1, 0; 2000 EL₅₇, 6, 2, 9; 2000 EN₅₇, 3, 1, 0; 2000 EO₅₇, 12, 4, 29; 2000 EY₅₇, 6, 2, 10; 2000 ER₅₇, 6, 2, 4; 2000 EZ₅₇, 6, 2, 4; 2000 EB₅₈, 9, 3, 13; 2000 EH₅₈, 3, 1, 0; 2000 EN₅₈, 6, 2, 15; 2000 ER₅₈, 6, 2, 2283; 2000 ET₅₈, 3, 1, 0; 2000 EX₅₈, 9, 3, 9; 2000 EA₅₉, 9, 3, 33; 2000 EE₅₉, 3, 1, 0; 2000 EF₅₉, 3, 1, 0; 2000 EG₅₉, 9, 3, 7; 2000 EP₅₉, 3, 1, 0; 2000 ET₅₉, 3, 1, 0; 2000 EV₅₉, 9, 3, 2190; 2000 EY₅₉, 6, 2, 6; 2000 EC₆₀, 6, 2, 5; 2000 EF₆₀, 6, 2, 3; 2000 EG₆₀, 3, 1, 0; 2000 EK₆₀, 6, 2, 1891; 2000 EL₆₀, 3, 1, 0; 2000 EV₆₀, 3, 1, 0; 2000 EA₆₁, 3, 1, 0; 2000 EC₆₁, 3, 1, 0; 2000 EV₆₁, 3, 1, 0; 2000 EX₆₁, 3, 1, 0; 2000 EZ₆₁, 6, 2, 45; 2000 EM₆₂, 3, 1, 0; 2000 EO₆₂, 3, 1, 0; 2000 ER₆₂, 3, 1, 0; 2000 EU₆₂, 12, 4, 2489; 2000 ES₆₄, 3, 1, 0; 2000 EV₆₄, 3, 1, 0; 2000 EC₆₅, 3, 1, 0; 2000 EP₆₅, 3, 1, 0; 2000 EG₆₅, 3, 1, 0; 2000 ET₆₅, 3, 1, 0; 2000 EU₆₅, 3, 1, 0; 2000 EW₆₅, 3, 1, 0; 2000 EY₆₆, 3, 1, 0; 2000 EZ₆₆, 3, 1, 0; 2000 EY₆₇, 3, 1, 0; 2000 EA₆₈, 3, 1, 0; 2000 EK₆₈, 3, 1, 0; 2000 EU₆₈, 3, 1, 0; 2000 EV₆₈, 3, 1, 0; 2000 EG₆₉, 3, 1, 0; 2000 EL₆₉, 6, 2, 2; 2000 EO₆₉, 3, 1, 0; 2000 EU₆₉, 3, 1, 0; 2000 ES₆₉, 3, 1, 0; 2000 EU₆₉, 6, 2, 2; 2000 EV₆₉, 3, 1, 0; 2000 EX₆₉, 6, 2, 11; 2000 EZ₆₉, 3, 1, 0; 2000 EA₇₀, 3, 1, 0; 2000 EK₇₀, 3, 1, 0; 2000 EM₇₀, 3, 1, 0; 2000 EO₇₀, 9, 3, 14; 2000 ES₇₁, 3, 1, 0; 2000 EF₇₄, 3, 1, 0; 2000 EP₇₈, 3, 1, 0; 2000 EQ₇₈, 3, 1, 0; 2000 EO₈₅, 6, 2, 125; 2000 EY₈₆, 3, 1, 0; 2000 ER₈₇, 6, 2, 5; 2000 EJ₉₁, 3, 1, 0; 2000 ED₉₂, 3, 1, 0; 2000 EG₉₂, 6, 1, 0; 2000 EH₉₃, 3, 1, 0; 2000 EP₉₄, 3, 1, 0; 2000 ER₉₅, 3, 1, 0; 2000 ET₉₆, 3, 1, 0; 2000 EC₉₈, 3, 1, 0; 2000 EF₁₀₀, 3, 1, 0; 2000 EJ₁₀₀, 3, 1, 0; 2000 EK₁₀₀, 3, 1, 0; 2000 EM₁₀₀, 6, 2, 18; 2000 EP₁₀₀, 3, 1, 0; 2000 ES₁₀₀, 3, 1, 0; 2000 EU₁₀₁, 9, 3, 13; 2000 EX₁₀₁, 3, 1, 0; 2000 EY₁₀₁, 3, 1, 0; 2000 EE₁₀₂, 3, 1, 0; 2000 EH₁₀₂, 3, 1, 0; 2000 EW₁₀₂, 6, 2, 8; 2000 EB₁₀₄, 6, 1, 0; 2000 EJ₁₀₄, 6, 2, 1; 2000 EK₁₀₄, 9, 3, 4; 2000 EG₁₀₈, 6, 2, 5; 2000 EH₁₀₈, 6, 2, 4; 2000 EU₁₀₈ *, 3, 1, 0; 2000 EV₁₀₈ *, 3, 1, 0; 2000 EW₁₀₈ *, 3, 1, 0; 2000 EY₁₀₈, 3, 1, 0; 2000 EZ₁₀₈, 3, 1, 0; 2000 EA₁₀₉, 3, 1, 0; 2000 EB₁₀₉, 9, 3, 2399; 2000 EC₁₀₉, 3, 1, 0; 2000 ED₁₀₉, 3, 1, 0; 2000 EU₁₀₉ *, 3, 1, 0; 2000 EV₁₀₉ *, 3, 1, 0; 2000 EF₁₁₀, 3, 1, 0; 2000 EO₁₁₀, 5, 2, 29; 2000 ER₁₁₀, 6, 2, 51; 2000 EP₁₁₁, 3, 1, 0; 2000 ES₁₁₁ *, 6, 2, 5; 2000 ET₁₁₁ *, 6, 2, 5; 2000 EU₁₁₁

2000 APR. 18

M.P.C. 39733

2000 EH₁₃₂, 6, 2, 4; 2000 EK₁₃₂, 6, 2, 5; 2000 EL₁₃₂, 6, 2, 4; 2000 EM₁₃₂, 6, 2, 9; 2000 EN₁₃₂, 6, 2, 7; 2000 EQ₁₃₂, 3, 1, 0; 2000 EU₁₃₂, 3, 1, 0; 2000 EV₁₃₂, 6, 2, 21; 2000 EW₁₃₂, 6, 2, 9; 2000 EX₁₃₂, 6, 2, 9; 2000 EA₁₃₃, 3, 1, 0; 2000 EB₁₃₃, 6, 2, 9; 2000 EF₁₃₃, 3, 1, 0; 2000 EG₁₃₃, 12, 4, 19; 2000 EH₁₃₃, 6, 2, 5; 2000 EJ₁₃₃, 6, 2, 8; 2000 EK₁₃₃, 3, 1, 0; 2000 EL₁₃₃, 6, 2, 2749; 2000 EN₁₃₃, 3, 1, 0; 2000 EV₁₃₃, 6, 2, 23; 2000 EY₁₃₃, 3, 1, 0; 2000 ER₁₃₄, 6, 2, 6; 2000 EE₁₃₅, 3, 1, 0; 2000 EN₁₃₅, 3, 1, 0; 2000 EC₁₃₆, 3, 1, 0; 2000 ED₁₃₆, 3, 1, 0; 2000 EE₁₃₆, 3, 1, 0; 2000 EF₁₃₆, 3, 1, 0; 2000 EG₁₃₆, 3, 1, 0; 2000 EH₁₃₆, 3, 1, 0; 2000 EJ₁₃₆, 3, 1, 0; 2000 EU₁₃₇, 3, 1, 0; 2000 EZ₁₃₇, 6, 2, 11; 2000 EA₁₃₈, 3, 1, 0; 2000 EB₁₃₈, 3, 1, 0; 2000 EC₁₃₈, 3, 1, 0; 2000 ED₁₃₈, 3, 1, 0; 2000 EE₁₃₈, 3, 1, 0; 2000 EG₁₃₈, 3, 1, 0; 2000 EH₁₃₈, 6, 2, 11; 2000 EK₁₃₈, 3, 1, 0; 2000 EL₁₃₈, 3, 1, 0; 2000 EG₁₃₉, 3, 1, 0; 2000 EH₁₃₉, 3, 1, 0; 2000 EJ₁₃₉, 3, 1, 0; 2000 EK₁₃₉, 3, 1, 0; 2000 EL₁₃₉, 3, 1, 0; 2000 EZ₁₃₉, 6, 2, 3; 2000 EB₁₄₀, 3, 1, 0; 2000 EL₁₄₀, 3, 1, 0; 2000 EM₁₄₀, 3, 1, 0; 2000 EN₁₄₀, 3, 1, 0; 2000 ET₁₄₀, 3, 1, 0; 2000 EF₁₄₁, 3, 1, 0; 2000 EE₁₄₁, 3, 1, 0; 2000 EF₁₄₁, 3, 1, 0; 2000 EG₁₄₁, 3, 1, 0; 2000 EH₁₄₁, 3, 1, 0; 2000 EJ₁₄₁, 3, 1, 0; 2000 EK₁₄₁, 3, 1, 0; 2000 EO₁₄₁, 3, 1, 0; 2000 EW₁₄₁, 3, 1, 0; 2000 EC₁₄₂, 3, 1, 0; 2000 ED₁₄₂, 3, 1, 0; 2000 EE₁₄₂, 3, 1, 0; 2000 EF₁₄₂, 3, 1, 0; 2000 EG₁₄₂, 3, 1, 0; 2000 EH₁₄₂, 3, 1, 0; 2000 EJ₁₄₂, 3, 1, 0; 2000 EK₁₄₂, 3, 1, 0; 2000 EL₁₄₂, 3, 1, 0; 2000 EO₁₄₂, 3, 1, 0; 2000 ER₁₄₂, 3, 1, 0; 2000 ES₁₄₂, 3, 1, 0; 2000 EK₁₄₃, 3, 1, 0; 2000 EL₁₄₃, 3, 1, 0; 2000 EM₁₄₃, 3, 1, 0; 2000 EN₁₄₃, 3, 1, 0; 2000 EO₁₄₃, 3, 1, 0; 2000 EP₁₄₃, 3, 1, 0; 2000 EQ₁₄₃, 3, 1, 0; 2000 ER₁₄₃, 3, 1, 0; 2000 ES₁₄₃, 3, 1, 0; 2000 ET₁₄₃, 3, 1, 0; 2000 EU₁₄₃, 3, 1, 0; 2000 EV₁₄₃, 3, 1, 0; 2000 EW₁₄₃, 3, 1, 0; 2000 EX₁₄₃, 3, 1, 0; 2000 EY₁₄₃, 3, 1, 0; 2000 ES₁₄₄, 6, 2, 1; 2000 EM₁₄₅, 3, 1, 0; 2000 ES₁₄₅, 6, 2, 21; 2000 ET₁₄₅, 3, 1, 0; 2000 EX₁₄₅, 3, 1, 0; 2000 EG₁₄₇, 9, 3, 13; 2000 EJ₁₄₇, 3, 1, 0; 2000 EK₁₄₇, 8, 2, 16; 2000 EP₁₄₇, 12, 4, 18; 2000 ER₁₄₇, 6, 2, 2; 2000 EZ₁₄₇, 3, 1, 0; 2000 EA₁₄₈, 9, 3, 7; 2000 ED₁₄₈, 6, 2, 1; 2000 EE₁₄₈, 3, 1, 0; 2000 EG₁₄₈, 6, 2, 5; 2000 EK₁₄₈, 3, 1, 0; 2000 EL₁₄₈, 6, 2, 10; 2000 EM₁₄₈, 3, 1, 0; 2000 EN₁₄₈, 3, 1, 0; 2000 EO₁₄₈, 18, 6, 3018; 2000 EP₁₅₀, 6, 2, 9; 2000 ET₁₅₀, 6, 2, 48; 2000 EF₁₅₁, 3, 1, 0; 2000 EE₁₅₃, 3, 1, 0; 2000 ER₁₅₃, 9, 3, 1417; 2000 ET₁₅₃, 3, 1, 0; 2000 EX₁₅₃, 3, 1, 0; 2000 EA₁₅₄, 3, 1, 0; 2000 EO₁₅₄, 3, 1, 0; 2000 EP₁₅₄, 9, 3, 5; 2000 EV₁₅₄, 6, 2, 3; 2000 EK₁₆₄, 3, 1, 0; 2000 ER₁₆₄, 3, 1, 0; 2000 ET₁₆₅, 6, 2, 9; 2000 ET₁₆₅, 3, 1, 0; 2000 EG₁₇₂, 3, 1, 0; 2000 FO ₁₂, 4; 2000 FQ ₁₂, 4; 2000 FX ₃, 1, 0; 2000 FM ₁ *, 6, 2, 2; 2000 FN ₁ *, 6, 2, 2; 2000 FO ₁ *, 15, 5, 18; 2000 FP ₁ *, 6, 2, 2; 2000 FQ ₁ *, 12, 4, 17; 2000 FR ₁ *, 6, 2, 2; 2000 FS ₁ *, 12, 3, 11; 2000 FT ₁ *, 12, 4, 17; 2000 FU ₁ *, 6, 2, 2; 2000 FV ₁ *, 6, 2, 2; 2000 FW ₁ *, 6, 2, 2; 2000 FX ₁ *, 6, 2, 2; 2000 FY ₁ *, 9, 3, 12; 2000 FZ ₁ *, 6, 2, 2; 2000 FA ₂ *, 12, 4, 16; 2000 FB ₂ *, 9, 3, 17; 2000 FC ₂ *, 9, 3, 12; 2000 FD ₂ *, 9, 3, 17; 2000 FE ₂ *, 9, 3, 12; 2000 FF ₂ *, 6, 2, 2; 2000 FG ₂ *, 6, 2, 2; 2000 FH ₂ *, 9, 3, 12; 2000 FJ ₂ *, 6, 2, 2; 2000 FK ₂ *, 6, 2, 2; 2000 FL ₂ *, 6, 2, 2; 2000 FM ₂ *, 6, 2, 2; 2000 FN ₂ *, 9, 3, 12; 2000 FO ₂ *, 12, 4, 16; 2000 FP ₂ *, 9, 3, 3; 2000 FQ ₂ *, 9, 3, 4; 2000 FR ₂ *, 3, 1, 0; 2000 FX ₃ *, 6, 2, 4; 2000 FY ₃ *, 6, 2, 4; 2000 FZ ₃ *, 6, 2, 4; 2000 FA ₄ *, 6, 2, 4; 2000 FB ₄ *, 6, 2, 4; 2000 FC ₄ *, 6, 2, 4; 2000 FD ₄ *, 9, 3, 5; 2000 FE ₄ *, 9, 3, 14; 2000 FF ₄ *, 6, 2, 2; 2000 FG ₄ *, 9, 3, 5; 2000 FH ₄ *, 9, 3, 5; 2000 FJ ₄ *, 6, 2, 2; 2000 FK ₄ *, 6, 2, 2; 2000 FL ₄ *, 6, 2, 2; 2000 FM ₄ *, 6, 2, 2; 2000 FN ₄ *, 6, 2, 2; 2000 FO ₄ *, 6, 2, 2; 2000 FP ₄ *, 6, 2, 2; 2000 FQ ₄ *, 6, 2, 2; 2000 FR ₄ *, 15, 5, 15; 2000 FS ₄ *, 12, 4, 15; 2000 FT ₄ *, 12, 4, 15; 2000 FU ₄ *, 15, 5, 15; 2000 FV ₄ *, 6, 2, 2; 2000 FW ₄ *, 12, 4, 16; 2000 FX ₄ *, 12, 4, 14; 2000 FY ₄ *, 12, 4, 15; 2000 FZ ₄ *, 9, 3, 15; 2000 FA ₅ *, 12, 4, 16; 2000 FB ₅ *, 12, 4, 16; 2000 FC ₅ *, 12, 4, 15; 2000 FJ ₅ *, 6, 2, 86; 2000 FK ₅ *, 6, 2, 5; 2000 FL ₅ *, 9, 3, 8; 2000 FM ₅ *, 6, 2, 5; 2000 FN ₅ *, 6, 2, 5; 2000 FO ₅ *, 6, 2, 5; 2000 FP ₅ *, 6, 2, 5; 2000 FQ ₅ *, 6, 2, 5; 2000 FR ₅ *, 9, 3, 13; 2000 FS ₅ *, 6, 2, 5; 2000 FT ₅ *, 6, 2, 5; 2000 FU ₅ *, 9, 3, 13; 2000 FV ₅ *, 6, 2, 5; 2000 FW ₅ *, 6, 2, 5; 2000 FX ₅ *, 6, 2, 5; 2000 FY ₅ *, 6, 2, 5; 2000 FZ ₅ *, 9, 3, 12; 2000 FA ₆ *, 6, 2, 5; 2000 FB ₆ *, 9, 3, 19; 2000 FC ₆ *, 9, 3, 19; 2000 FD ₆ *, 6, 2, 5; 2000 FE ₆ *, 6, 2, 5; 2000 FF ₆ *, 6, 2, 5; 2000 FG ₆ *, 6, 2, 5; 2000 FH ₆ *, 6, 2, 5; 2000 FJ ₆ *, 9, 3, 19; 2000 FK ₆ *, 9, 3, 19; 2000 FL ₆ *, 6, 2, 5; 2000 FM ₆ *, 9, 3, 19; 2000 FN ₆ *, 9, 3, 19; 2000 FO ₆ *, 6, 2, 5; 2000 FP ₆ *, 6, 2, 5; 2000 FQ ₆ *, 6, 2, 3; 2000 FR ₆ *, 6, 2, 3; 2000 FS ₆ *, 6, 2, 3; 2000 FT ₆ *, 6, 2, 3; 2000 FU ₆ *, 6, 2, 1; 2000 FV ₆ *, 6, 2, 1; 2000 FW ₆ *, 9, 3, 4; 2000 FX ₆ *, 6, 2, 1; 2000 FY ₆ *, 6, 2, 1; 2000 FZ ₆ *, 6, 2, 1; 2000 FA ₇ *, 6, 2, 1; 2000 FB ₇ *, 6, 2, 1; 2000 FC ₇ *, 6, 2, 1; 2000 FD ₇ *, 6, 2, 1; 2000 FE ₇ *, 6, 2, 1; 2000 FF ₇ *, 9, 3, 7; 2000 FG ₇ *, 6, 2, 1; 2000 FH ₇ *, 9, 3, 8; 2000 FJ ₇ *, 9, 3, 8; 2000 FK ₇ *, 9, 3, 8; 2000 FL ₇ *, 9, 3, 5; 2000 FM ₇ *, 12, 4, 5; 2000 FN ₇ *, 6, 2, 1; 2000 FO ₇ *, 9, 3, 8; 2000 FZ ₇ *, 9, 3, 15; 2000 FJ ₈ *, 3, 1, 0; 2000 FP ₈ *, 6, 2, 3; 2000 FQ ₈ *, 12, 4, 14; 2000 FR ₈ *, 12, 4, 8; 2000 FS ₈ *, 12, 4, 8; 2000 FT ₈ *, 9, 3, 8; 2000 FU ₈ *, 9, 3, 7; 2000 FV ₈ *, 15, 5, 14; 2000 FW ₈ *, 12, 4, 14; 2000 FX ₈ *, 6, 2, 3; 2000 FY ₈ *, 6, 2, 3; 2000 FZ ₈ *, 6, 2, 3; 2000 FA ₉ *, 6, 2, 3; 2000 FB ₉ *, 6, 2, 3; 2000 FC ₉ *, 9, 3, 9; 2000 FD ₉ *, 6, 2, 3; 2000 FE ₉ *, 6, 2, 3; 2000 FF ₉ *, 6, 2, 3; 2000 FG ₉ *, 6, 2, 2; 2000 FH ₉ *, 6, 2, 2; 2000 FJ ₉ *, 6, 2, 2; 2000 FK ₉ *, 6, 2, 2; 2000 FL ₉ *, 6, 2, 2; 2000 FM ₉ *, 6, 2, 2; 2000 FN ₉ *, 9, 3, 7; 2000 FO ₉ *, 9, 3, 7; 2000 FP ₉ *, 6, 2, 2; 2000 FR ₉ *, 6, 2, 2; 2000 FS ₉ *, 6, 2, 2; 2000 FT ₉ *, 9, 3, 8; 2000 FU ₉ *, 6, 2, 2; 2000 FV ₉ *, 9, 3, 7; 2000 FW ₉ *, 12, 4, 7; 2000 FX ₉ *, 12, 4, 7; 2000 FY ₉ *, 18, 6, 13; 2000 FZ ₉ *, 15, 4, 4; 2000 FA ₁₀ *, 15, 4, 4; 2000 FB ₁₀ *, 18, 5, 13; 2000 FC ₁₀ *, 12, 2, 2; 2000 FD ₁₀ *, 15, 4, 4; 2000 FE ₁₀ *, 12, 3, 4; 2000 FF ₁₀ *, 6, 2, 2; 2000 FH ₁₀ *, 15, 5, 7; 2000 FJ ₁₀ *, 24, 8, 14; 2000 FM ₁₀ *, 24, 6, 13; 2000 FP ₁₀ *, 16, 4, 8; 2000 FU ₁₀ *, 9, 3, 4; 2000 FV ₁₀ *, 12, 4, 7; 2000 FW ₁₀ *, 9, 3, 4;

2000 FX₁₀ *, 9, 3, 4; 2000 FB₁₁, 3, 1, 0; 2000 FU₁₁, 3, 1, 0; 2000 FS₁₂, 3, 1, 0; 2000 FC₁₃, 3, 1, 0; 2000 FY₁₃ *, 9, 3, 8; 2000 FZ₁₃ *, 9, 3, 8; 2000 FA₁₄ *, 9, 3, 8; 2000 FB₁₄ *, 6, 2, 4; 2000 FC₁₄ *, 6, 2, 4; 2000 FD₁₄ *, 6, 2, 4; 2000 FE₁₄ *, 6, 2, 4; 2000 FF₁₄ *, 6, 2, 4; 2000 FG₁₄ *, 6, 2, 4; 2000 FH₁₄ *, 9, 3, 7; 2000 FJ₁₄ *, 9, 3, 7; 2000 FK₁₄ *, 9, 3, 7; 2000 FL₁₄ *, 9, 3, 7; 2000 FM₁₄ *, 6, 2, 4; 2000 FN₁₄ *, 9, 3, 7; 2000 FO₁₄ *, 12, 3, 7; 2000 FP₁₄ *, 9, 2, 4; 2000 FQ₁₄ *, 6, 2, 4; 2000 FU₁₄, 3, 1, 0; 2000 FE₁₇, 3, 1, 0; 2000 FK₁₇, 3, 1, 0; 2000 FP₁₇, 3, 1, 0; 2000 FU₁₆, 9, 3, 6; 2000 FZ₂₆, 9, 3, 10; 2000 FH₂₇, 6, 2, 16; 2000 FJ₂₇, 15, 3, 16; 2000 FK₂₇, 9, 3, 8; 2000 FL₂₇, 15, 4, 15; 2000 FM₂₇, 6, 2, 7; 2000 FN₂₇, 6, 2, 7; 2000 FO₂₇, 6, 2, 7; 2000 FP₂₇, 6, 2, 7; 2000 FR₂₇, 3, 1, 0; 2000 FT₂₇, 3, 1, 0; 2000 FZ₂₇, 6, 2, 7; 2000 FE₂₈, 3, 1, 0; 2000 FF₂₈, 3, 1, 0; 2000 FP₂₈, 3, 1, 0; 2000 FL₂₉, 6, 2, 11; 2000 FM₂₉, 12, 3, 2606; 2000 FO₂₉, 3, 1, 0; 2000 FP₂₉, 6, 2, 14; 2000 FR₂₉, 6, 2, 6; 2000 FS₂₉, 6, 1, 0; 2000 FT₂₉, 6, 2, 6; 2000 FV₂₉, 3, 1, 0; 2000 FW₂₉, 3, 1, 0; 2000 FY₂₉, 3, 1, 0; 2000 FZ₂₉, 6, 2, 15; 2000 FA₃₀, 6, 2, 11; 2000 FC₃₀, 3, 1, 0; 2000 FJ₃₀, 3, 1, 0; 2000 FO₃₀, 3, 1, 0; 2000 FC₃₁, 3, 1, 0; 2000 FM₃₂, 3, 1, 0; 2000 FN₃₂, 3, 1, 0; 2000 FQ₃₂, 4, 2, 945; 2000 FR₃₂, 3, 1, 0; 2000 FV₃₂, 3, 1, 0; 2000 FT₃₄, 3, 1, 0; 2000 FK₃₅, 3, 1, 0; 2000 FM₃₅, 3, 1, 0; 2000 FB₃₇, 3, 1, 0; 2000 FD₃₇, 6, 2, 1883; 2000 FE₃₇, 3, 1, 0; 2000 FF₃₇, 6, 2, 1443; 2000 FQ₃₈, 3, 1, 0; 2000 FW₃₈, 6, 2, 1037; 2000 FZ₃₉, 3, 1, 0; 2000 FO₄₁, 3, 1, 0; 2000 FB₄₂, 6, 2, 885; 2000 FQ₄₆, 3, 1, 0; 2000 FV₄₇, 3, 1, 0; 2000 FA₄₈, 3, 1, 0; 2000 FM₄₈, 3, 1, 0; 2000 FE₄₉, 3, 1, 0; 2000 FN₅₀ *, 6, 2, 7; 2000 FO₅₀ *, 6, 2, 7; 2000 FP₅₀ *, 6, 2, 7; 2000 FQ₅₀ *, 6, 2, 7; 2000 FR₅₀ *, 6, 2, 7; 2000 FS₅₀ *, 6, 2, 7; 2000 FT₅₀ *, 6, 2, 7; 2000 FU₅₀ *, 9, 3, 13; 2000 FV₅₀ *, 6, 2, 7; 2000 FW₅₀ *, 6, 2, 7; 2000 FX₅₀ *, 9, 3, 14; 2000 FY₅₀ *, 6, 2, 7; 2000 FZ₅₀ *, 6, 2, 7; 2000 FA₅₁ *, 12, 3, 13; 2000 FB₅₁ *, 6, 2, 7; 2000 FC₅₁ *, 9, 3, 13; 2000 FD₅₁ *, 6, 2, 7; 2000 FE₅₁ *, 6, 2, 7; 2000 FF₅₁ *, 6, 2, 7; 2000 FG₅₁ *, 6, 2, 7; 2000 FH₅₁ *, 9, 3, 13; 2000 FJ₅₁ *, 6, 2, 7; 2000 FK₅₁ *, 9, 3, 13; 2000 FL₅₁ *, 6, 2, 7; 2000 FM₅₁ *, 9, 3, 13; 2000 FN₅₁ *, 9, 3, 13; 2000 FO₅₁ *, 6, 2, 7; 2000 FP₅₁ *, 9, 3, 13; 2000 FQ₅₁ *, 6, 2, 7; 2000 FR₅₁ *, 9, 3, 13; 2000 FS₅₁ *, 9, 3, 14; 2000 FT₅₁ *, 6, 2, 7; 2000 FU₅₁ *, 6, 2, 7; 2000 FV₅₁ *, 6, 2, 7; 2000 FW₅₁ *, 6, 2, 7; 2000 FX₅₁ *, 6, 2, 7; 2000 FY₅₁ *, 6, 2, 7; 2000 FZ₅₁ *, 6, 2, 7; 2000 FA₅₂ *, 6, 2, 7; 2000 FB₅₂ *, 6, 2, 7; 2000 FC₅₂ *, 6, 2, 7; 2000 FD₅₂ *, 9, 3, 14; 2000 FE₅₂ *, 6, 2, 7; 2000 FF₅₂ *, 6, 2, 7; 2000 FG₅₂ *, 9, 3, 14; 2000 FH₅₂ *, 6, 2, 7; 2000 FJ₅₂ *, 9, 3, 14; 2000 FK₅₂ *, 6, 2, 7; 2000 FL₅₂ *, 6, 2, 7; 2000 FM₅₂ *, 6, 2, 7; 2000 FO₅₂ *, 9, 3, 14; 2000 FQ₅₂ *, 6, 2, 7; 2000 FR₅₂ *, 9, 3, 14; 2000 FS₅₂ *, 6, 2, 7; 2000 FT₅₂ *, 6, 2, 7; 2000 FU₅₂ *, 9, 3, 13; 2000 FV₅₂ *, 6, 2, 7; 2000 FW₅₂ *, 6, 2, 7; 2000 FX₅₂ *, 6, 2, 7; 2000 FY₅₂ *, 6, 2, 7; 2000 FZ₅₂ *, 6, 2, 6; 2000 FA₅₃ *, 6, 2, 7; 2000 FB₅₃ *, 6, 2, 7; 2000 FC₅₃ *, 9, 3, 13; 2000 FD₅₃ *, 6, 2, 7; 2000 FE₅₃ *, 6, 2, 7; 2000 FF₅₃ *, 6, 2, 6; 2000 FG₅₃ *, 6, 2, 6; 2000 FH₅₃ *, 6, 2, 7; 2000 FJ₅₃ *, 9, 3, 13; 2000 FK₅₃ *, 9, 3, 13; 2000 FL₅₃ *, 6, 2, 7; 2000 FM₅₃ *, 6, 2, 6; 2000 FN₅₃ *, 9, 3, 12; 2000 FO₅₃ *, 9, 3, 12; 2000 FP₅₃ *, 6, 2, 6; 2000 FQ₅₃ *, 20, 6, 12; 2000 GA ₁₂, 3, 5; 2000 GB ₁₂, 3, 5; 2000 GC ₁₂, 4, 11; 2000 GD ₁₂, 3, 5; 2000 GE ₁₂, 3, 5; 2000 GF ₁₂, 3, 5; 2000 GG ₁₂, 3, 5; 2000 GH ₁₂, 3, 5; 2000 GI ₁₂, 3, 5; 2000 GJ ₁₂, 3, 5; 2000 GK ₁₂, 3, 5; 2000 GL ₁₂, 3, 5; 2000 GM ₁₂, 3, 5; 2000 GN ₁₂, 3, 5; 2000 GO ₁₂, 3, 5; 2000 GP ₁₂, 3, 5; 2000 GQ ₁₂, 3, 5; 2000 GR ₁₂, 3, 5; 2000 GS ₁₂, 3, 5; 2000 GT ₁₂, 3, 5; 2000 GU ₁₂, 3, 5; 2000 GV ₁₂, 3, 5; 2000 GW ₁₂, 3, 5; 2000 GX ₁₂, 3, 5; 2000 GY ₁₂, 3, 5; 2000 GZ ₁₂, 3, 5; 2000 GA ₁ *, 6, 2, 1; 2000 GB ₁ *, 6, 2, 1; 2000 GC ₁ *, 19, 7, 11; 2000 GE ₁ *, 9, 3, 6; 2000 GF ₁ *, 3, 1, 0; 2000 GG ₁ *, 6, 2, 1; 2000 GH ₁ *, 3, 1, 0; 2000 GI ₁ *, 12, 4, 10; 2000 GJ ₁ *, 6, 2, 5; 2000 GK ₁ *, 3, 1, 0; 2000 GL ₁ *, 6, 2, 2; 2000 GM ₁ *, 3, 1, 0; 2000 GN ₁ *, 3, 1, 0; 2000 GO ₁ *, 3, 1, 0; 2000 GP ₁ *, 3, 1, 0; 2000 GQ ₁ *, 3, 1, 0; 2000 GR ₁ *, 3, 1, 0; 2000 GS ₁ *, 3, 1, 0; 2000 GT ₁ *, 3, 1, 0; 2000 GU ₁ *, 3, 1, 0; 2000 GV ₁ *, 3, 1, 0; 2000 GW ₁ *, 3, 1, 0; 2000 GX ₁ *, 3, 1, 0; 2000 GY ₁ *, 3, 1, 0; 2000 GZ ₁ *, 3, 1, 0; 2000 GA ₂ *, 3, 1, 0; 2000 GB ₂ *, 3, 1, 0; 2000 GC ₂ *, 3, 1, 0; 2000 GD ₂ *, 3, 1, 0; 2000 GE ₂ *, 3, 1, 0; 2000 GF ₂ *, 3, 1, 0; 2000 GH ₂ *, 3, 1, 0; 2000 GI ₂ *, 3, 1, 0; 2000 GJ ₂ *, 3, 1, 0; 2000 GK ₂ *, 3, 1, 0; 2000 GL ₂ *, 3, 1, 0; 2000 GM _{2</}

0; 2000 GC₂₅, 3, 1, 0; 2000 GE₂₅, 3, 1, 0; 2000 GP₂₅, 3, 1, 0; 2000 GQ₂₅, 9, 212; 2000 GR₂₅, 9, 3, 8; 2000 GT₂₅, 6, 2, 5; 2000 GU₂₅, 6, 2, 1; 2000 GV₂₅, 6, 2, 6; 2000 GW₂₅, 6, 2, 7; 2000 GX₂₅, 9, 3, 13; 2000 GY₂₅, 6, 2, 7; 2000 GZ₂₅, 9, 3, 15; 2000 GA₂₆, 15, 4, 16; 2000 GC₂₆, 3, 1, 0; 2000 GD₂₆, 3, 1, 0; 2000 GE₂₆, 6, 2, 6; 2000 GF₂₆, 6, 2, 6; 2000 GG₂₆, 6, 2, 6; 2000 GH₂₆, 6, 2, 6; 2000 GI₂₆, 6, 2, 6; 2000 GJ₂₆, 6, 2, 6; 2000 GK₂₆, 6, 2, 6; 2000 GL₂₆, 6, 2, 6; 2000 GM₂₆, 9, 3, 16; 2000 GN₂₆, 9, 3, 7; 2000 GO₂₆, 6, 2, 7; 2000 GP₂₆, 12, 4, 7; 2000 GQ₂₆, 6, 2, 7; 2000 GR₂₆, 9, 3, 6; 2000 GS₂₆, 9, 3, 2; 2000 GT₂₆, 6, 2, 2; 2000 GU₂₆, 12, 4, 3; 2000 GV₂₆, 9, 3, 7; 2000 GW₂₆, 9, 3, 6; 2000 GX₂₆, 3, 1, 0; 2000 GY₂₆, 3, 1, 0; 2000 GZ₂₆, 3, 1, 0; 2000 GA₂₇, 3, 1, 0; 2000 GB₂₇, 3, 1, 0; 2000 GC₂₇, 3, 1, 0; 2000 GD₂₇, 6, 2, 6; 2000 GE₂₇, 3, 1, 0; 2000 GF₂₇, 6, 2, 1; 2000 GG₂₇, 9, 3, 17; 2000 GT₂₇, 3, 1, 0; 2000 GS₂₇, 3, 1, 0; 2000 GU₂₇, 3, 1, 0; 2000 GV₂₇, 6, 2, 15; 2000 GW₂₇, 3, 1, 0; 2000 GX₂₇, 3, 1, 0; 2000 GY₂₇, 6, 2, 15; 2000 GZ₂₇, 3, 1, 0; 2000 GA₂₈, 3, 1, 0; 2000 GB₂₈, 3, 1, 0; 2000 GC₂₈, 6, 2, 8; 2000 GD₂₈, 3, 1, 0; 2000 GE₂₈, 3, 1, 0; 2000 GF₂₈, 3, 1, 0; 2000 GG₂₈, 3, 1, 0; 2000 GH₂₈, 3, 1, 0; 2000 GI₂₈, 3, 1, 0; 2000 GJ₂₈, 3, 1, 0; 2000 GK₂₈, 3, 1, 0; 2000 GL₂₈, 3, 1, 0; 2000 GM₂₈, 3, 1, 0; 2000 GN₂₈, 3, 1, 0; 2000 GO₂₈, 3, 1, 0; 2000 GP₂₈, 3, 1, 0; 2000 GQ₂₈, 3, 1, 0; 2000 GR₂₈, 3, 1, 0; 2000 GS₂₈, 3, 1, 0; 2000 GT₂₈, 3, 1, 0; 2000 GU₂₈, 3, 1, 0; 2000 GV₂₈, 3, 1, 0; 2000 GW₂₈, 3, 1, 0; 2000 GX₂₈, 3, 1, 0; 2000 GY₂₈, 3, 1, 0; 2000 GZ₂₈, 3, 1, 0; 2000 GA₂₉, 3, 1, 0; 2000 GB₂₉, 3, 1, 0; 2000 GC₂₉, 3, 1, 0; 2000 GD₂₉, 3, 1, 0; 2000 GE₂₉, 3, 1, 0; 2000 GF₂₉, 3, 1, 0; 2000 GG₂₉, 3, 1, 0; 2000 GH₂₉, 3, 1, 0; 2000 GI₂₉, 3, 1, 0; 2000 GJ₂₉, 3, 1, 0; 2000 GK₂₉, 3, 1, 0; 2000 GL₂₉, 3, 1, 0; 2000 GM₂₉, 3, 1, 0; 2000 GN₂₉, 3, 1, 0; 2000 GO₂₉, 3, 1, 0; 2000 GP₂₉, 3, 1, 0; 2000 GQ₂₉, 3, 1, 0; 2000 GR₂₉, 3, 1, 0; 2000 GS₂₉, 3, 1, 0; 2000 GT₂₉, 3, 1, 0; 2000 GU₂₉, 3, 1, 0; 2000 GV₂₉, 3, 1, 0; 2000 GW₂₉, 3, 1, 0; 2000 GX₂₉, 3, 1, 0; 2000 GY₂₉, 3, 1, 0; 2000 GZ₂₉, 3, 1, 0; 2000 GA₃₀, 3, 1, 0; 2000 GB₃₀, 3, 1, 0; 2000 GC₃₀, 3, 1, 0; 2000 GD₃₀, 3, 1, 0; 2000 GE₃₀, 3, 1, 0; 2000 GF₃₀, 3, 1, 0; 2000 GH₃₀, 3, 1, 0; 2000 GI₃₀, 3, 1, 0; 2000 GJ₃₀, 3, 1, 0; 2000 GK₃₀, 3, 1, 0; 2000 GL₃₀, 3, 1, 0; 2000 GM₃₀, 3, 1, 0; 2000 GN₃₀, 3, 1, 0; 2000 GO₃₀, 3, 1, 0; 2000 GP₃₀, 3, 1, 0; 2000 GQ₃₀, 3, 1, 0; 2000 GR₃₀, 3, 1, 0; 2000 GS₃₀, 3, 1, 0; 2000 GT₃₀, 3, 1, 0; 2000 GU₃₀, 3, 1, 0; 2000 GV₃₀, 3, 1, 0; 2000 GW₃₀, 3, 1, 0; 2000 GX₃₀, 3, 1, 0; 2000 GY₃₀, 3, 1, 0; 2000 GZ₃₀, 3, 1, 0; 2000 GA₃₁, 3, 1, 0; 2000 GB₃₁, 3, 1, 0; 2000 GC₃₁, 6, 2, 16; 2000 GD₃₁, 6, 2, 1; 2000 GE₃₁, 3, 1, 0; 2000 GF₃₁, 3, 1, 0; 2000 GH₃₁, 3, 1, 0; 2000 GI₃₁, 3, 1, 0; 2000 GJ₃₁, 3, 1, 0; 2000 GK₃₁, 3, 1, 0; 2000 GL₃₁, 3, 1, 0; 2000 GM₃₁, 3, 1, 0; 2000 GN₃₁, 3, 1, 0; 2000 GO₃₁, 3, 1, 0; 2000 GP₃₁, 3, 1, 0; 2000 GQ₃₁, 3, 1, 0; 2000 GR₃₁, 3, 1, 0; 2000 GS₃₁, 3, 1, 0; 2000 GT₃₁, 3, 1, 0; 2000 GU₃₁, 3, 1, 0; 2000 GV₃₁, 3, 1, 0; 2000 GW₃₁, 3, 1, 0; 2000 GX₃₁, 3, 1, 0; 2000 GY₃₁, 3, 1, 0; 2000 GZ₃₁, 3, 1, 0; 2000 GA₃₂, 3, 1, 0; 2000 GB₃₂, 3, 1, 0; 2000 GC₃₂, 3, 1, 0; 2000 GD₃₂, 3, 1, 0; 2000 GE₃₂, 3, 1, 0; 2000 GF₃₂, 3, 1, 0; 2000 GH₃₂, 3, 1, 0; 2000 GI₃₂, 3, 1, 0; 2000 GJ₃₂, 3, 1, 0; 2000 GK₃₂, 3, 1, 0; 2000 GL₃₂, 3, 1, 0; 2000 GM₃₂, 3, 1, 0; 2000 GN₃₂, 3, 1, 0; 2000 GO₃₂, 3, 1, 0; 2000 GP₃₂, 3, 1, 0; 2000 GQ₃₂, 3, 1, 0; 2000 GR₃₂, 3, 1, 0; 2000 GS₃₂, 3, 1, 0; 2000 GT₃₂, 3, 1, 0; 2000 GU₃₂, 3, 1, 0; 2000 GV₃₂, 3, 1, 0; 2000 GW₃₂, 3, 1, 0; 2000 GX<

1, 0; 2000 GO₆₅, 3, 1, 0; 2000 GP₆₅, 6, 2, 6; 2000 GQ₆₅, 3, 1, 0; 2000 GR₆₅, 3, 1, 0; 2000 GS₆₅, 3, 1, 0; 2000 GU₆₅, 9, 3, 6; 2000 GV₆₅, 9, 3, 6; 2000 GW₆₅, 3, 1, 0; 2000 GX₆₅, 3, 1, 0; 2000 GZ₆₅, 6, 2, 2; 2000 GS₆₆, 3, 1, 0; 2000 GV₆₆, 3, 1, 0; 2000 GG₆₇, 3, 1, 0; 2000 GN₆₇, 3, 1, 0; 2000 GO₆₇, 3, 1, 0; 2000 GP₆₈, 3, 1, 0; 2000 GW₆₉, 3, 1, 0; 2000 GX₆₉, 3, 1, 0; 2000 GY₆₉, 3, 1, 0; 2000 GZ₆₉, 3, 1, 0; 2000 GC₇₀, 3, 1, 0; 2000 GK₇₀, 6, 2, 9; 2000 GM₇₀, 3, 1, 0; 2000 GN₇₀, 3, 1, 0; 2000 GO₇₀, 3, 1, 0; 2000 GQ₇₀, 3, 1, 0; 2000 GR₇₀, 3, 1, 0; 2000 GS₇₀, 3, 1, 0; 2000 GT₇₀, 3, 1, 0; 2000 GB₇₃, 3, 1, 0; 2000 GC₇₃, 3, 1, 0; 2000 GD₇₃, 3, 1, 0; 2000 GF₇₃, 3, 1, 0; 2000 GH₇₃, 3, 1, 0; 2000 GN₇₄, 3, 1, 0; 2000 GU₇₅, 3, 1, 0; 2000 GL₇₇, 3, 1, 0; 2000 GM₇₇, 3, 1, 0; 2000 GQ₇₇, 3, 1, 0; 2000 GR₇₇, 6, 2, 6; 2000 GT₇₇, 3, 1, 0; 2000 GY₇₇, 3, 1, 0; 2000 GK₇₈, 3, 1, 0; 2000 GH₇₈, 3, 1, 0; 2000 GI₇₉, 3, 1, 0; 2000 GJ₇₉, 3, 1, 0; 2000 GK₇₉, 3, 1, 0; 2000 GT₇₉, 3, 1, 0; 2000 GK₈₀, 6, 2, 7; 2000 GE₈₁, 3, 1, 0; 2000 GN₈₁, 3, 1, 0; 2000 GF₈₈, 3, 1, 0; 2000 GH₈₈, 3, 1, 0; 2000 GA₈₉, 3, 1, 0; 2000 GR₈₉, 3, 1, 0; 2000 GC₉₀, 6, 2, 1502; 2000 GX₉₀, 3, 1, 0; 2000 GN₉₂, 6, 2, 14; 2000 GZ₉₄, 3, 1, 0; 2000 GG₉₈, 3, 1, 0; 2000 GK₁₀₂, 3, 1, 0; 2000 GU₁₀₂, 3, 1, 0; 2000 GL₁₀₃, 3, 1, 0; 2000 GK₁₀₅, 3, 1, 0; 2000 GL₁₁₀, 3, 1, 0; 2000 GZ₁₁₀, 3, 1, 0; 2000 GR₁₁₁, 9, 3, 15; 2000 GS₁₁₁, 9, 2, 6; 2000 GK₁₁₂, 3, 1, 0; 2000 GB₁₁₃, 6, 2, 24; 2000 GD₁₁₃, 3, 1, 0; 2000 GM₁₁₃, 3, 1, 0; 2000 GN₁₁₄, 3, 1, 0; 2000 GH₁₁₆ *, 6, 2, 4; 2000 GJ₁₁₆ *, 6, 2, 6; 2000 GK₁₁₆ *, 6, 2, 5; 2000 GL₁₁₆ *, 6, 2, 4; 2000 GM₁₁₆ *, 6, 2, 5; 2000 GN₁₁₆ *, 6, 2, 6; 2000 GO₁₁₆ *, 9, 3, 10; 2000 GP₁₁₆ *, 6, 2, 5; 2000 GQ₁₁₆ *, 6, 2, 5; 2000 GR₁₁₆ *, 6, 2, 5; 2000 GS₁₁₆ *, 6, 2, 5; 2000 GT₁₁₆ *, 6, 2, 5; 2000 GU₁₁₆ *, 6, 2, 5; 2000 GV₁₁₆ *, 6, 2, 5; 2000 GW₁₁₆ *, 6, 2, 5; 2000 GX₁₁₆ *, 6, 2, 5; 2000 GY₁₁₆ *, 6, 2, 5; 2000 GZ₁₁₆ *, 6, 2, 5; 2000 GA₁₁₇ *, 6, 2, 5; 2000 GB₁₁₇ *, 6, 2, 5; 2000 GC₁₁₇ *, 6, 2, 5; 2000 GD₁₁₇ *, 6, 2, 5; 2000 GE₁₁₇ *, 6, 2, 5; 2000 GF₁₁₇ *, 6, 2, 5; 2000 GH₁₁₇ *, 6, 2, 5; 2000 GI₁₁₇ *, 6, 2, 5; 2000 GJ₁₁₇ *, 6, 2, 5; 2000 GK₁₁₇ *, 6, 2, 5; 2000 GL₁₁₇ *, 6, 2, 5; 2000 GM₁₁₇ *, 6, 2, 5; 2000 GN₁₁₇ *, 6, 2, 5; 2000 GO₁₁₇ *, 6, 2, 5; 2000 GP₁₁₇ *, 6, 2, 5; 2000 GQ₁₁₇ *, 6, 2, 5; 2000 GR₁₁₇ *, 6, 2, 5; 2000 GS₁₁₇ *, 6, 2, 5; 2000 GT₁₁₇ *, 6, 2, 5; 2000 GU₁₁₇ *, 6, 2, 5; 2000 GV₁₁₇ *, 6, 2, 5; 2000 GW₁₁₇ *, 6, 2, 5; 2000 GX₁₁₇ *, 6, 2, 5; 2000 GY₁₁₇ *, 6, 2, 5; 2000 GZ₁₁₇ *, 6, 2, 5; 2000 GA₁₁₈ *, 6, 2, 5; 2000 GB₁₁₈ *, 6, 2, 5; 2000 GC₁₁₈ *, 6, 2, 5; 2000 GD₁₁₈ *, 6, 2, 5; 2000 GE₁₁₈ *, 9, 3, 13; 2000 GF₁₁₈ *, 6, 2, 5; 2000 GH₁₁₈ *, 6, 2, 5; 2000 GI₁₁₈ *, 6, 2, 5; 2000 GJ₁₁₈ *, 6, 2, 2; 2000 GK₁₁₈ *, 6, 2, 5; 2000 GL₁₁₈ *, 6, 2, 4; 2000 GM₁₁₈ *, 6, 2, 4; 2000 GN₁₁₈ *, 6, 2, 4; 2000 GO₁₁₈ *, 6, 2, 4; 2000 GP₁₁₈ *, 6, 2, 4; 2000 GQ₁₁₈ *, 6, 2, 4; 2000 GR₁₁₈ *, 6, 2, 4; 2000 GS₁₁₈ *, 6, 2, 4; 2000 GT₁₁₈ *, 6, 2, 4; 2000 GU₁₁₈ *, 9, 3, 10; 2000 GV₁₁₈ *, 6, 2, 4; 2000 GW₁₁₈ *, 6, 2, 4; 2000 GX₁₁₈ *, 6, 2, 4; 2000 GY₁₁₈ *, 6, 2, 4; 2000 GZ₁₁₈ *, 6, 2, 4; 2000 GA₁₁₉ *, 6, 2, 4; 2000 GB₁₁₉ *, 6, 2, 4; 2000 GC₁₁₉ *, 6, 2, 4; 2000 GD₁₁₉ *, 6, 2, 4; 2000 GE₁₁₉ *, 6, 2, 4; 2000 GF₁₁₉ *, 6, 2, 4; 2000 GH₁₁₉ *, 6, 2, 5; 2000 GJ₁₁₉ *, 6, 2, 5; 2000 GK₁₁₉ *, 6, 2, 3; 2000 GL₁₁₉ *, 9, 3, 7; 2000 GM₁₁₉ *, 9, 3, 7; 2000 GN₁₁₉ *, 9, 3, 6; 2000 GO₁₁₉ *, 6, 2, 3; 2000 GP₁₁₉ *, 9, 3, 6; 2000 GQ₁₁₉ *, 6, 2, 3; 2000 GR₁₁₉ *, 9, 3, 6; 2000 GS₁₁₉ *, 6, 2, 3; 2000 GT₁₁₉ *, 6, 2, 3; 2000 GU₁₁₉ *, 6, 2, 3; 2000 GV₁₁₉ *, 9, 3, 6; 2000 GW₁₁₉ *, 6, 2, 3; 2000 GX₁₁₉ *, 6, 2, 3; 2000 GY₁₁₉ *, 6, 2, 3; 2000 GZ₁₁₉ *, 6, 2, 3; 2000 GA₁₂₀ *, 6, 2, 3; 2000 GB₁₂₀ *, 9, 3, 6; 2000 GC₁₂₀

6, 2, 6; 2000 GW₁₂₉ *, 6, 2, 6; 2000 GX₁₂₉ *, 6, 2, 6; 2000 GY₁₂₉ *, 6, 2, 7; 2000 GZ₁₂₉ *, 6, 2, 6; 2000 GA₁₃₀ *, 6, 2, 6; 2000 GB₁₃₀ *, 6, 2, 6; 2000 GC₁₃₀ *, 6, 2, 6; 2000 GD₁₃₀ *, 6, 2, 7; 2000 GE₁₃₀ *, 6, 2, 7; 2000 GF₁₃₀ *, 6, 2, 7; 2000 GH₁₃₀ *, 6, 2, 7; 2000 GJ₁₃₀ *, 6, 2, 7; 2000 GK₁₃₀ *, 6, 2, 7; 2000 GL₁₃₀ *, 6, 2, 6; 2000 GM₁₃₀ *, 6, 2, 7; 2000 GN₁₃₀ *, 6, 2, 6; 2000 GO₁₃₀ *, 6, 2, 6; 2000 GP₁₃₀ *, 6, 2, 7; 2000 GQ₁₃₀ *, 6, 2, 7; 2000 GR₁₃₀ *, 6, 2, 6; 2000 GS₁₃₀ *, 6, 2, 6; 2000 GT₁₃₀ *, 6, 2, 6; 2000 GU₁₃₀ *, 6, 2, 6; 2000 GV₁₃₀ *, 6, 2, 5; 2000 GW₁₃₀ *, 6, 2, 5; 2000 GX₁₃₀ *, 6, 2, 4; 2000 GY₁₃₀ *, 6, 2, 4; 2000 GZ₁₃₀ *, 6, 2, 4; 2000 GA₁₃₁ *, 9, 3, 6; 2000 GB₁₃₁ *, 9, 3, 6; 2000 GC₁₃₁ *, 6, 2, 4; 2000 GD₁₃₁ *, 9, 3, 6; 2000 GE₁₃₁ *, 6, 2, 4; 2000 GF₁₃₁ *, 6, 2, 4; 2000 GH₁₃₁ *, 6, 2, 4; 2000 GJ₁₃₁ *, 9, 3, 6; 2000 GK₁₃₁ *, 9, 3, 6; 2000 GL₁₃₁ *, 6, 2, 4; 2000 GM₁₃₁ *, 9, 3, 6; 2000 GN₁₃₁ *, 6, 2, 4; 2000 GO₁₃₁ *, 6, 2, 4; 2000 GP₁₃₁ *, 9, 3, 6; 2000 GQ₁₃₁ *, 6, 2, 3; 2000 GR₁₃₁ *, 9, 2, 3; 2000 GS₁₃₁ *, 6, 2, 3; 2000 GT₁₃₁ *, 6, 2, 3; 2000 GU₁₃₁ *, 6, 2, 3; 2000 GV₁₃₁ *, 6, 2, 3; 2000 GW₁₃₁ *, 6, 2, 2; 2000 GX₁₃₁ *, 6, 2, 2; 2000 GY₁₃₁ *, 6, 2, 3; 2000 GZ₁₃₁ *, 6, 2, 4; 2000 GA₁₃₂ *, 6, 2, 4; 2000 GB₁₃₂ *, 6, 2, 1; 2000 GC₁₃₂ *, 6, 2, 1; 2000 GD₁₃₂ *, 6, 2, 1; 2000 GE₁₃₂ *, 9, 3, 3; 2000 GF₁₃₂ *, 6, 2, 1; 2000 GG₁₃₂ *, 6, 2, 1; 2000 GH₁₃₂ *, 9, 3, 3; 2000 GI₁₃₂ *, 9, 3, 3; 2000 GJ₁₃₂ *, 6, 2, 1; 2000 GK₁₃₂ *, 15, 4, 14; 2000 GM₁₃₂ *, 6, 2, 1; 2000 GN₁₃₂ *, 6, 2, 1; 2000 GO₁₃₂ *, 6, 2, 1; 2000 GT₁₃₂ *, 3, 1, 0; 2000 GZ₁₃₂ *, 6, 2, 7; 2000 GA₁₄₄ *, 6, 2, 7; 2000 GB₁₄₄ *, 6, 2, 7; 2000 GC₁₄₄ *, 6, 2, 7; 2000 GD₁₄₄ *, 6, 2, 7; 2000 GE₁₄₄ *, 6, 2, 7; 2000 GF₁₄₄ *, 6, 2, 7; 2000 GH₁₄₄ *, 6, 2, 6; 2000 GI₁₄₄ *, 6, 2, 6; 2000 GJ₁₄₄ *, 6, 2, 6; 2000 GK₁₄₄ *, 6, 2, 6; 2000 GL₁₄₄ *, 6, 2, 6; 2000 GM₁₄₄ *, 6, 2, 6; 2000 GN₁₄₄ *, 6, 2, 6; 2000 GO₁₄₄ *, 6, 2, 6; 2000 GP₁₄₄ *, 6, 2, 6; 2000 GQ₁₄₄ *, 6, 2, 6; 2000 GR₁₄₄ *, 6, 2, 6; 2000 GS₁₄₄ *, 6, 2, 6; 2000 GT₁₄₄ *, 6, 2, 6; 2000 GU₁₄₄ *, 6, 2, 6; 2000 GV₁₄₄ *, 6, 2, 6; 2000 GW₁₄₄ *, 6, 2, 6; 2000 GX₁₄₄ *, 6, 2, 6; 2000 GY₁₄₄ *, 6, 2, 6; 2000 GZ₁₄₄ *, 6, 2, 6; 2000 GA₁₄₅ *, 6, 2, 6; 2000 GB₁₄₅ *, 6, 2, 6; 2000 GC₁₄₅ *, 6, 2, 6; 2000 GD₁₄₅ *, 6, 2, 6; 2000 GE₁₄₅ *, 6, 2, 6; 2000 GF₁₄₅ *, 6, 2, 3; 2000 GH₁₄₅ *, 6, 2, 3; 2000 GI₁₄₅ *, 6, 2, 3; 2000 GJ₁₄₅ *, 6, 2, 3; 2000 GK₁₄₅ *, 6, 2, 3; 2000 GL₁₄₅ *, 6, 2, 3; 2000 GM₁₄₅ *, 6, 2, 3; 2000 GN₁₄₅ *, 6, 2, 3; 2000 GO₁₄₅ *, 6, 2, 2; 2000 GP₁₄₅ *, 6, 2, 2; 2000 GQ₁₄₅ *, 6, 2, 2; 2000 GR₁₄₅ *, 6, 2, 2; 2000 GS₁₄₅ *, 6, 2, 2; 2000 GT₁₄₅ *, 6, 2, 2; 2000 GU₁₄₅ *, 6, 2, 2; 2000 GV₁₄₅ *, 6, 2, 1; 2000 GW₁₄₅ *, 6, 2, 1; 2000 GX₁₄₅ *, 6, 2, 1; 2000 GY₁₄₅ *, 6, 2, 1; 2000 GZ₁₄₅ *, 6, 2, 1; 2000 GA₁₄₆ *, 6, 2, 1; 2000 GB₁₄₆ *, 6, 2, 1; 2000 GC₁₄₆ *, 6, 2, 1; 2000 GD₁₄₆ *, 6, 2, 1; 2000 GE₁₄₆ *, 6, 2, 1; 2000 GF₁₄₆ *, 6, 2, 1; 2000 GH₁₄₆ *, 6, 2, 1; 2000 GI₁₄₆ *, 6, 2, 1; 2000 GJ₁₄₆ *, 6, 2, 1; 2000 GK₁₄₆ *, 6, 2, 1; 2000 GL₁₄₆ *, 6, 2, 1; 2000 GN₁₄₆ *, 14, 5, 6; 2000 GO₁₄₆ *, 9, 3, 4; 2027 P-L, 3, 1, 0; 2626 P-L, 6, 2, 10; 2654 P-L, 3, 1, 0; 2781 P-L, 6, 2, 7; 2819 P-L, 3, 1, 0; 2861 P-L, 3, 1, 0; 3118 P-L, 3, 1, 0; 3552 P-L, 3, 1, 0; 4083 P-L, 3, 1, 0; 4104 P-L, 3, 1, 0; 4289 P-L, 6, 2, 3; 4291 P-L, 5, 2, 1440; 4536 P-L, 3, 1, 0; 6033 P-L, 3, 1, 0; 6061 P-L, 6, 2, 7; 6224 P-L, 3, 1, 0; 6250 P-L, 3, 1, 0; 6276 P-L, 3, 1, 0; 6309 P-L, 6, 2, 7; 6519 P-L, 3, 1, 0; 6601 P-L, 3, 1, 0; 6617 P-L, 3, 1, 0; 7075 P-L, 3, 1, 0; 7572 P-L, 3, 1, 0; 9519 P-L, 6, 2, 10; 1034 T-1, 3, 1, 0; 1043 T-1, 3, 1, 0; 4133 T-1, 3, 1, 0; 1062 T-2, 3, 1, 0; 1139 T-2, 6, 2, 2; 1504 T-2, 3, 1, 0; 2066 T-2, 6, 2, 5; 2078 T-2, 3, 1, 0; 2208 T-2, 3, 1, 0; 2265 T-2, 3, 1, 0; 2279 T-2, 3, 1, 0; 2284 T-2, 3, 1, 0; 1093 T-3, 6, 2, 22; 1124 T-3, 3, 1, 0; 2152 T-3, 3, 1, 0; 2383 T-3, 3, 1, 0; 2603 T-3, 6, 2, 3; 3098 T-3, 9, 2, 2; 3256 T-3, 3, 1, 0; 3403 T-3, 3, 1, 0; 3479 T-3, 6, 2, 4; 4183 T-3, 3, 1, 0; 4517 T-3, 6, 2, 1; 5710 T-3, 6, 2, 4; (229), 6, 2, 2; (319), 11, 3, 13; (515), 3, 1, 0; (830), 3, 1, 0; (831), 6, 2, 12; (842), 3, 1, 0; (1033), 3, 1, 0; (1061), 3, 1, 0; (1100), 9, 3, 13; (1183), 6, 2, 14; (1225), 9, 3, 14; (1299), 3, 1, 0; (1335), 6, 2, 16; (1386), 3, 1, 0; (1415), 9, 3, 13; (1564), 3, 1, 0; (1578), 3, 1, 0; (1673), 3, 1, 0; (1692), 12, 4, 14; (1734), 6, 2, 5; (1812), 3, 1, 0; (1856), 3, 1, 0; (1991), 9, 3, 9; (2006), 3, 1, 0; (2074), 3, 1, 0; (2136), 6, 2, 18; (2139), 3, 1, 0; (2142), 6, 2, 9; (2151), 3, 1, 0; (2240), 3, 1, 0; (2250), 3, 1, 0; (2303), 9, 3, 6; (2342), 3, 1, 0; (2370), 9, 3, 6; (2429), 6, 2, 10; (2516), 3, 1, 0; (2539), 9, 3, 8; (2551), 3, 1, 0; (2592), 3, 1, 0; (2605), 9, 3, 3; (2732), 3, 1, 0; (2819), 6, 2, 7; (2933), 6, 2, 3; (2974), 3, 1, 0; (3005), 6, 2, 3; (3008), 3, 1, 0; (3014), 3, 1, 0; (3107), 3, 1, 0; (3179), 6, 2, 9; (3373), 6, 2, 5; (3396), 3, 1, 0; (3477), 6, 2, 4; (3580), 3, 1, 0; (3601), 3, 1, 0; (3621), 15, 5, 16; (3785), 3, 1, 0; (3827), 3, 1, 0; (3861), 12, 4, 16; (3918), 3, 1, 0; (3959), 3, 1, 0; (3975), 3, 1, 0; (4013), 6, 2, 9; (4268), 6, 2, 9; (4507), 3, 1, 0; (4571), 6, 2, 6; (4609), 6, 2, 8; (4633), 3, 1, 0; (4642), 3, 1, 0; (4831), 3, 1, 0; (4850), 6, 2, 9; (4916), 3, 1, 0; (4923), 3, 1, 0; (4928), 3, 1, 0; (5005), 3, 1, 0; (5020), 6, 2, 9; (5174), 6, 2, 5; (5204), 3, 1, 0; (5228), 3, 1, 0; (5353), 3, 1, 0; (5460), 3, 1, 0; (5509), 18, 5, 10; (5550), 6, 2, 12; (5605), 3, 1, 0; (5613), 3, 1, 0; (5697), 3, 1, 0; (5934), 12, 4, 16; (5940), 3, 1, 0; (6069), 3, 1, 0; (6124), 3, 1, 0; (6145), 6, 2, 15; (6215), 9, 3, 14; (6276), 9, 3, 13; (6297), 3, 1, 0; (6559), 3, 1, 0; (6629), 6, 2, 8; (6711), 3, 1, 0; (6712), 3, 1, 0; (6767), 3, 1, 0; (6804), 3, 1, 0; (6864), 3, 1, 0; (6933), 9, 3, 12; (7100), 3, 1, 0; (7126), 9, 3, 5; (7212), 6, 2, 16; (7315), 9, 3, 2; (7362), 6, 2, 3; (7625), 3, 1, 0; (7754), 3, 1, 0; (7801), 3, 1, 0; (7806), 3, 1, 0; (7820), 3, 1, 0; (7858), 3, 1, 0; (7866), 3, 1, 0; (7907), 3, 1, 0; (7953), 3, 1, 0; (7981), 3, 1, 0; (8017), 6, 2, 11; (8064), 6, 2, 9; (8103), 9, 3, 2; (8158), 3, 1, 0; (8225), 3, 1, 0; (8314), 3, 1, 0; (8339), 6, 2, 6; (8427), 3, 1, 0; (8958), 3, 1, 0; (9081), 3, 1, 0; (9097), 3, 1, 0; (9101), 3, 1, 0; (9123), 3, 1, 0; (9307), 6, 2, 4; (9342), 3, 1, 0; (9525), 3, 1, 0; (9538), 3, 1, 0; (9572), 15, 5, 16; (9615), 3, 1, 0; (9637), 3, 1, 0; (9654), 3, 1, 0; (9658), 3, 1, 0; (9672), 3, 1, 0; (9683), 3, 1, 0; (9684), 6, 2, 1; (9756), 3, 1, 0; (9760), 3, 1, 0; (9769), 3, 1, 0; (9774), 12, 4, 15; (9783), 3, 1, 0; (9813), 6, 2, 6; (9831), 3, 1, 0; (9835), 3, 1, 0; (9848), 3, 1, 0; (9864), 6, 2, 10; (9895), 3, 1, 0; (9932), 9, 3, 11; (9954), 3, 1, 0; (9957), 3, 1, 0; (9964), 6, 2, 5;

(9988), 6, 2, 9; (9990), 3, 1, 0; (10005), 6, 2, 19; (10018), 3, 1, 0; (10045), 3, 1, 0; (10078), 3, 1, 0; (10082), 3, 1, 0; (10144), 3, 1, 0; (10155), 3, 1, 0; (10240), 9, 3, 3; (10245), 3, 1, 0; (10252), 18, 5, 7; (10263), 3, 1, 0; (10355), 3, 1, 0; (10377), 3, 1, 0; (10397), 3, 1, 0; (10421), 3, 1, 0; (10501), 6, 2, 1; (10616), 3, 1, 0; (10641), 9, 3, 15; (11274), 12, 4, 13; (11519), 3, 1, 0; (11535), 3, 1, 0; (11564), 3, 1, 0; (11582), 3, 1, 0; (11592), 3, 1, 0; (11630), 3, 1, 0; (11673), 3, 1, 0; (11693), 3, 1, 0; (11759), 6, 2, 7; (11761), 6, 2, 9; (11795), 3, 1, 0; (11800), 3, 1, 0; (11881), 3, 1, 0; (11954), 3, 1, 0; (12467), 3, 1, 0; (12869), 3, 1, 0; (12935), 6, 2, 1; (12958), 3, 1, 0; (13113), 6, 2, 5; (13121), 3, 1, 0; (13382), 6, 2, 8; (13395), 3, 1, 0; (13416), 3, 1, 0; (13461), 3, 1, 0; (13499), 3, 1, 0; (13523), 3, 1, 0; (13549), 6, 2, 4; (13572), 3, 1, 0; (13607), 3, 1, 0; (13610), 9, 3, 17; (13617), 6, 2, 8; (13649), 6, 2, 9; (13686), 12, 4, 16; (13791), 3, 1, 0; (13799), 3, 1, 0; (13823), 3, 1, 0; (13868), 3, 1, 0; (13903), 3, 1, 0; (13929), 6, 2, 5; (13932), 6, 2, 4; (13945), 6, 2, 5; (13958), 6, 2, 8; (13962), 3, 1, 0; (13977), 3, 1, 0; (13996), 6, 2, 4; (14022), 6, 2, 9; (14036), 6, 2, 6; (14037), 3, 1, 0; (14056), 3, 1, 0; (14082), 6, 2, 4; (14092), 3, 1, 0; (14096), 6, 2, 5; (14109), 3, 1, 0; (14133), 3, 1, 0; (14146), 6, 2, 9; (14168), 3, 1, 0; (14174), 3, 1, 0; (14187), 3, 1, 0; (14189), 6, 2, 8; (14243), 3, 1, 0; (14246), 3, 1, 0; (14247), 3, 1, 0; (14248), 6, 2, 7; (14249), 3, 1, 0; (14251), 3, 1, 0; (14274), 3, 1, 0; (14283), 6, 2, 7; (14295), 6, 2, 8; (14298), 9, 3, 10; (14300), 3, 1, 0; [16681, 3437, 723*, 1991/09/04-2000/04/13]

693 University of Arizona, Catalina Station

C. W. Hergenrother, Space Sciences Building, University of Arizona, Tucson, AZ
85721, U.S.A. [chergen@pir1.lpl.arizona.edu]

1.54-m reflector + CCD

1993 HC₆, 2, 1, 0; [2, 1, 0*, 1993/04/17]

695 Kitt Peak

M. W. Buie, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,
U.S.A. [buie@lowell.edu] (1)

J. W. Parker, Southwest Research Institute, 1050 Walnut Street, Suite 426,
Boulder, CO 80302, U.S.A. [joel@boulder.swri.edu] (9)

Observers R. L. Millis, M. W. Buie, R. M. Wagner, J. L. Elliot, D. Harmer,
D. W. Willmarth, P. Smith, A. Saha, S. D. Kern, J. W. Parker

Measurers M. W. Buie, R. L. Millis, J. L. Elliot, L. H. Wasserman, S. D. Kern,
J. W. Parker

3.8-m reflector + CCD, 3.6-m WIYN reflector + CCD, 2.3-m Steward reflector +
CCD

USNO-A2.0

{1} 2000 BQ₂₀, 2, 1, 0; 2000 CY₁₀₅ *, 4, 2, 21; 2000 CZ₁₀₅ *, 2, 1, 0; 2000 CA₁₀₆ *, 2, 1, 0; 2000 CB₁₀₆ *, 2, 1, 0; 2000 CC₁₀₆ *, 2, 1, 0; 2000 CD₁₀₆ *, 2, 1, 0; 2000 CE₁₀₆ *, 2, 1, 0; 2000 CF₁₀₆ *, 1, 1, 0; 2000 CG₁₀₆ *, 2, 1, 0; 2000 CH₁₀₆ *, 2, 1, 0; 2000 CJ₁₀₆ *, 2, 1, 0; 2000 CK₁₀₆ *, 2, 1, 0; 2000 CL₁₀₆ *, 2, 1, 0; 2000 CM₁₀₆ *, 2, 1, 0; 2000 CN₁₀₆ *, 2, 1, 0; 2000 CO₁₀₆ *, 2, 1, 0; 2000 CP₁₀₆ *, 2, 1, 0; 2000 CQ₁₀₆ *, 2, 1, 0; 2000 CT₁₀₆ *, 2, 1, 0; 2000 CU₁₀₆ *, 2, 1, 0; 2000 CV₁₀₆ *, 2, 1, 0; 2000 CW₁₀₆ *, 2, 1, 0; 2000 CX₁₀₆ *, 2, 1, 0; 2000 CY₁₀₆ *, 2, 1, 0; 2000 CZ₁₀₆ *, 2, 1, 0; 2000 CE₁₀₇ *, 2, 1, 0; 2000 CF₁₀₇ *, 2, 1, 0; 2000 CG₁₀₇ *, 2, 1, 0; 2000 CH₁₀₇ *, 2, 1, 0; 2000 CJ₁₀₇ *, 2, 1, 0; 2000 CK₁₀₇ *, 2, 1, 0; 2000 CL₁₀₇ *, 2, 1, 0; 2000 CM₁₀₇ *, 2, 1, 0; 2000 CN₁₀₇ *, 2, 1, 0; 2000 CO₁₀₇ *, 2, 1, 0; 2000 CP₁₀₇ *, 2, 1, 0; 2000 CQ₁₀₇ *, 2, 1, 0; 2000 CR₁₀₇ *, 2, 1, 0; 2000 CS₁₀₇ *, 2, 1, 0; 2000 CT₁₀₇ *, 2, 1, 0; 2000 CU₁₀₇ *, 2, 1, 0; 2000 CV₁₀₇ *, 2, 1, 0; 2000 CW₁₀₇ *, 2, 1, 0; 2000 CX₁₀₇ *, 2, 1, 0; 2000 CY₁₀₇ *, 2, 1, 0; 2000 CZ₁₀₇ *, 2, 1, 0; 2000 CA₁₀₈ *, 2, 1, 0; 2000 CB₁₀₈ *, 2, 1, 0; 2000 CC₁₀₈ *, 2, 1, 0; 2000 CD₁₀₈ *, 2, 1, 0; 2000 CE₁₀₈ *, 2, 1, 0; 2000 CF₁₀₈ *, 2, 1, 0; 2000 CG₁₀₈ *, 2, 1, 0; 2000 CH₁₀₈ *, 2, 1, 0; 2000 CI₁₀₈ *, 2, 1, 0; 2000 CJ₁₀₈ *, 2, 1, 0; 2000 CK₁₀₈ *, 2, 1, 0; 2000 CL₁₀₈ *, 2, 1, 0; 2000 CM₁₀₈ *, 2, 1, 0; 2000 CN₁₀₈ *, 2, 1, 0; 2000 CO₁₀₈ *, 2, 1, 0; 2000 CP₁₀₈ *, 2, 1, 0; 2000 CQ₁₀₈ *, 2, 1, 0; 2000 CR₁₀₈ *, 2, 1, 0; 2000 CS₁₀₈ *, 2, 1, 0; 2000 CT₁₀₈ *, 2, 1, 0; 2000 CU₁₀₈ *, 2, 1, 0; 2000 CV₁₀₈ *, 2, 1, 0; 2000 CW₁₀₈ *, 2, 1, 0; 2000 CX₁₀₈ *, 2, 1, 0; 2000 CY₁₀₈ *, 2, 1, 0; 2000 CZ₁₀₈ *, 2, 1, 0; 2000 CA₁₀₉ *, 2, 1, 0; 2000 CB₁₀₉ *, 2, 1, 0; 2000 CC₁₀₉ *, 2, 1, 0; 2000 CD₁₀₉ *, 2, 1, 0; 2000 CE₁₀₉ *, 2, 1, 0; 2000 CF₁₀₉ *, 2, 1, 0; 2000 CG₁₀₉ *, 2, 1, 0; 2000 CH₁₀₉ *, 2, 1, 0; 2000 CI₁₀₉ *, 2, 1, 0; 2000 CJ₁₀₉ *, 2, 1, 0; 2000 CK₁₀₉ *, 2, 1, 0; 2000 CL₁₀₉ *, 2, 1, 0; 2000 CM₁₀₉ *, 2, 1, 0; 2000 CN₁₀₉ *, 2, 1, 0; 2000 CO₁₀₉ *, 2, 1, 0; 2000 CP₁₀₉ *, 2, 1, 0; 2000 CQ₁₀₉ *, 2, 1, 0; 2000 CR₁₀₉ *, 2, 1, 0; 2000 CS₁₀₉ *, 2, 1, 0; 2000 CT₁₀₉ *, 2, 1, 0; 2000 CU₁₀₉ *, 2, 1, 0; 2000 CV₁₀₉ *, 2, 1, 0; 2000 CW₁₀₉ *, 2, 1, 0; 2000 CX₁₀₉ *, 2, 1, 0; 2000 CY₁₀₉ *, 2, 1, 0; 2000 CZ₁₀₉ *, 2, 1, 0; 2000 CA₁₁₀ *, 2, 1, 0; 2000 CB₁₁₀ *, 2, 1, 0; 2000 CC₁₁₀ *, 2, 1, 0; 2000 CD₁₁₀ *, 2, 1, 0; 2000 CE₁₁₀ *, 2, 1, 0; 2000 CF₁₁₀ *, 2, 1, 0; 2000 CG₁₁₀ *, 2, 1, 0; 2000 CH₁₁₀ *, 2, 1, 0; 2000 CI₁₁₀ *, 2, 1, 0; 2000 CJ₁₁₀ *, 2, 1, 0; 2000 CK₁₁₀ *, 2, 1, 0; 2000 CL₁₁₀ *, 2, 1, 0; 2000 CM₁₁₀ *, 2, 1, 0; 2000 CN₁₁₀ *, 2, 1, 0; 2000 CO₁₁₀ *, 2, 1, 0; 2000 CP₁₁₀ *, 2, 1, 0; 2000 CQ₁₁₀ *, 2, 1, 0; 2000 CR₁₁₀ *, 2, 1, 0; 2000 CS₁₁₀ *, 2, 1, 0; 2000 CT₁₁₀ *, 2, 1, 0; 2000 CU₁₁₀ *, 2, 1, 0; 2000 CV₁₁₀ *, 2, 1, 0; 2000 CW₁₁₀ *, 2, 1, 0; 2000 CX₁₁₀ *, 2, 1, 0; 2000 CY₁₁₀ *, 2, 1, 0; 2000 CZ₁₁₀ *, 2, 1, 0; 2000 CA₁₁₁ *, 2, 1, 0; 2000 CB₁₁₁ *, 2, 1, 0; 2000 CC₁₁₁ *, 2, 1, 0; 2000 CD₁₁₁ *, 2, 1, 0; 2000 CE₁₁₁ *, 2, 1, 0; 2000 CF₁₁₁ *, 2, 1, 0; 2000 CG₁₁₁ *, 2, 1, 0; 2000 CH₁₁₁ *, 2, 1, 0; 2000 CI₁₁₁ *, 2, 1, 0; 2000 CJ₁₁₁ *, 2, 1, 0; 2000 CK₁₁₁ *, 2

0; 2000 EG₂₉, 2, 1, 0; 2000 ED₃₈, 4, 1, 0; 2000 EA₅₆, 2, 1, 0; 2000 GF₁₁, 4, 1, 0; [234, 114, 99*, 2000/02/05–2000/02/26]

{9} 1999 HS₁₁, 1, 1, 0; 1999 RQ₃₆, 11, 1, 0; 2000 CN₃₃, 12, 1, 0; 2000 CO₁₀₅, 2, 2, 1; 2000 EC₁₀₄, 4, 1, 0; 2000 FP₄₂ *, 4, 2, 1; [34, 6, 1*, 2000/03/29–2000/03/30]

699 Lowell Observatory–LONEOS

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001,

U.S.A. [elgb@lowell.edu]

Observers B. W. Koehn, B. A. Skiff, M. E. Van Ness, W. D. Ferris

Measurer B. W. Koehn

0.59-m LONEOS Schmidt + CCD

USNO-A2.0

A908 SA, 4, 1, 0; 1937 UD, 4, 1, 0; 1951 QD, 4, 1, 0; 1966 PP, 3, 1, 0; 1967 KC, 9, 3, 27; 1969 TY₁, 8, 2, 3; 1972 TE, 4, 1, 0; 1973 SU, 3, 1, 0; 1973 SX₂, 4, 1, 0; 1975 SE₂, 12, 3, 4; 1975 VZ₈, 4, 1, 0; 1976 SD₅, 4, 1, 0; 1977 DG₃, 3, 1, 0; 1977 DQ₃, 8, 2, 1; 1977 EL₅, 4, 1, 0; 1977 ES₇, 7, 2, 80; 1977 PC₁, 9, 3, 39; 1977 QO₃, 6, 2, 14; 1977 UA, 6, 2, 55; 1977 XF₂, 18, 6, 80; 1978 PV₂, 7, 2, 8; 1978 PA₃, 4, 1, 0; 1978 PC₃, 4, 1, 0; 1978 PG₄, 4, 1, 0; 1978 QF₁, 2, 1, 0; 1978 RV, 4, 1, 0; 1978 RX₁, 4, 1, 0; 1978 RD₂, 3, 1, 0; 1978 RK₉, 6, 2, 69; 1978 SD₈, 8, 2, 12; 1978 UW₄, 9, 3, 31; 1978 UJ₅, 6, 2, 3; 1978 UV₇, 4, 1, 0; 1978 VA, 12, 2, 3; 1978 VO₂, 6, 2, 15; 1978 WV₃, 3, 1, 0; 1978 VY₅, 8, 2, 1; 1978 VO₆, 4, 1, 0; 1978 VP₉, 2, 1, 0; 1978 VT₉, 4, 1, 0; 1978 VW₉, 4, 1, 0; 1979 MQ₁, 4, 1, 0; 1979 MU₂, 4, 1, 0; 1979 MQ₃, 3, 1, 0; 1979 MK₆, 8, 2, 4; 1979 MM₆, 12, 3, 10; 1980 BA, 8, 2, 3; 1980 FQ₁, 8, 1, 0; 1981 DN, 7, 2, 80; 1981 DD₁, 3, 1, 0; 1981 EK₁, 4, 1, 0; 1981 EO₂, 3, 1, 0; 1981 ER₄, 3, 1, 0; 1981 EY₆, 3, 1, 0; 1981 EB₈, 3, 1, 0; 1981 EX₈, 3, 1, 0; 1981 EP₉, 4, 1, 0; 1981 EY₁₀, 8, 2, 3; 1981 ED₁₁, 4, 1, 0; 1981 EJ₁₁, 8, 2, 8; 1981 EN₁₃, 3, 1, 0; 1981 EW₁₃, 8, 2, 3; 1981 EX₁₄, 4, 1, 0; 1981 EX₁₄, 16, 4, 10; 1981 ED₁₅, 4, 1, 0; 1981 EF₁₆, 3, 1, 0; 1981 EC₁₇, 3, 1, 0; 1981 EX₂₀, 8, 2, 3; 1981 EG₂₁, 14, 3, 11; 1981 EZ₂₁, 8, 2, 24; 1981 EC₂₂, 4, 1, 0; 1981 EG₂₂, 8, 2, 7; 1981 EY₂₂, 4, 1, 0; 1981 EB₂₃, 4, 1, 0; 1981 EJ₂₅, 4, 1, 0; 1981 EU₂₅, 4, 1, 0; 1981 EH₂₈, 3, 1, 0; 1981 EP₃₁, 8, 2, 3; 1981 EX₃₁, 12, 3, 4; 1981 EW₃₄, 4, 1, 0; 1981 EO₃₅, 4, 2, 1; 1981 EQ₄₁, 6, 2, 27; 1981 EQ₄₃, 4, 1, 0; 1981 EQ₄₇, 12, 3, 11; 1981 QW₂, 12, 3, 7; 1981 RR₃, 12, 3, 7; 1981 RW₄, 4, 1, 0; 1981 UQ₂₂, 6, 2, 43; 1981 UC₂₆, 4, 1, 0; 1981 WJ₉, 4, 1, 0; 1982 KA, 8, 2, 3; 1982 RK₁, 4, 1, 0; 1982 UA₆, 3, 1, 0; 1982 UU₈, 4, 1, 0; 1982 UE₁₂, 3, 1, 0; 1982 VU₂, 3, 1, 0; 1982 VP₃, 8, 2, 2; 1982 VB₄, 8, 2, 5; 1982 VF₄, 8, 2, 3; 1982 VG₄, 6, 2, 15; 1983 GU, 4, 1, 0; 1983 RL, 3, 1, 0; 1983 RV₃, 4, 1, 0; 1984 SA, 4, 1, 0; 1984 SL, 8, 2, 12; 1984 SL₄, 4, 1, 0; 1984 SM₅, 11, 3, 85; 1984 ST₅, 6, 2, 3; 1984 UR, 4, 1, 0; 1984 WJ₁, 4, 1, 0; 1985 CL₂, 3, 1, 0; 1985 CP₂, 8, 2, 12; 1985 PF, 3, 1, 0; 1985 PO, 8, 2, 12; 1985 QG₅, 8, 2, 1; 1985 QD₆, 4, 1, 0; 1985 RQ, 4, 1, 0; 1985 RJ₄, 4, 1, 0; 1985 RL₄, 8, 2, 12; 1985 SC₁, 3, 1, 0; 1985 TS, 3, 1, 0; 1985 UQ₄, 8, 2, 3; 1985 VA₁, 4, 1, 0; 1986 AB, 8, 2, 6; 1986 JK, 4, 1, 0; 1986 QM, 4, 1, 0; 1986 QY₃, 4, 1, 0; 1986 RF₃, 4, 1, 0; 1986 TR, 3, 1, 0; 1986 WC₁, 8, 2, 3; 1987 BX₁, 6, 2, 3; 1987 CH, 3, 1, 0; 1987 DL₆, 3, 1, 0; 1987 DN₆, 4, 1, 0; 1987 RL₁, 4, 1, 0; 1987 SF, 4, 1, 0; 1987 SD₁₃, 4, 1, 0; 1987 UR, 16, 4, 11; 1988 AX₁, 4, 1, 0; 1988 AX₁, 3, 1, 0; 1988 BG, 6, 2, 48; 1988 BO₃, 3, 1, 0; 1988 BY₃, 4, 1, 0; 1988 BJ₅, 6, 2, 1; 1988 BL₅, 4, 1, 0; 1988 CY, 4, 1, 0; 1988 CB₄, 3, 1, 0; 1988 CV₄, 16, 4, 11; 1988 FE₃, 3, 1, 0; 1988 NU, 16, 4, 10; 1988 QZ, 3, 1, 0; 1988 RZ₂, 8, 2, 10; 1988 RX₃, 4, 1, 0; 1988 RN₅, 8, 2, 12; 1988 RH₈, 9, 3, 106; 1988 RO₁₂, 4, 1, 0; 1988 SU₁, 3, 1, 0; 1988 TK, 4, 1, 0; 1988 UV, 4, 1, 0; 1988 VJ₁, 8, 2, 8; 1988 XZ₂, 12, 3, 10; 1988 XW₄, 8, 2, 12; 1989 AN₃, 9, 3, 538; 1989 AD₆, 4, 1, 0; 1989 AD₇, 4, 1, 0; 1989 BH, 3, 1, 0; 1989 CO₂, 4, 1, 0; 1989 CY₂, 8, 2, 3; 1989 CB₆, 3, 1, 0; 1989 DB, 4, 1, 0; 1989 GR₁, 6, 2, 1; 1989 GH₃, 4, 1, 0; 1989 GN₃, 8, 2, 6; 1989 GJ₈, 9, 3, 40; 1989 RX, 4, 1, 0; 1989 SA, 4, 1, 0; 1989 SD, 3, 1, 0; 1989 SE, 4, 1, 0; 1989 SZ₂, 4, 1, 0; 1989 SQ₅, 3, 1, 0; 1989 SW₈, 8, 2, 8; 1989 TQ, 6, 2, 29; 1989 TT, 4, 1, 0; 1989 TA₁₆, 4, 1, 0; 1989 UC₆, 4, 1, 0; 1989 UN₇, 4, 1, 0; 1989 VR₁, 6, 2, 14; 1989 WH, 4, 1, 0; 1989 WA₁, 6, 2, 7; 1989 WU₁, 4, 1, 0; 1989 WY₁, 3, 1, 0; 1989 YB₅, 3, 1, 0; 1990 DZ, 7, 2, 81; 1990 EB, 3, 1, 0; 1990 EV₁, 3, 1, 0; 1990 ES₆, 4, 1, 0; 1990 HW, 3, 1, 0; 1990 OB₁, 4, 1, 0; 1990 OR₃, 4, 1, 0; 1990 OY₃, 8, 2, 12; 1990 QE₅, 8, 2, 5; 1990 QR₅, 8, 2, 4; 1990 QY₅, 6, 2, 52; 1990 QY₅, 3, 1, 0; 1990 QE₇, 3, 1, 0; 1990 QM₇, 8, 2, 12; 1990 QN₇, 7, 2, 80; 1990 QP₁₀, 4, 1, 0; 1990 RF₁, 4, 1, 0; 1990 RE₂, 4, 1, 0; 1990 RS₆, 8, 2, 4; 1990 SC₃, 4, 1, 0; 1990 SX₃, 3, 1, 0; 1990 SY₃, 3, 1, 0; 1990 SE₄, 6, 2, 31; 1990 SN₅, 4, 1, 0; 1990 SO₆, 4, 1, 0; 1990 ST₈, 8, 2, 3; 1990 SM₁₄, 4, 1, 0; 1990 SK₂₈, 3, 1, 0; 1990 TT, 3, 1, 0; 1990 TG₂, 6, 2, 27; 1990 TN₃, 16, 4, 11; 1990 TF₉, 3, 1, 0; 1990 TS₉, 3, 1, 0; 1990 UM, 3, 1, 0; 1990 UR, 12, 3, 10; 1990 UC₂, 4, 1, 0; 1990 UP₄, 8, 2, 3; 1990 UX₄, 9, 3, 17; 1990 UK₅, 3, 1, 0; 1990 VV₁, 8, 2, 6; 1990 VX₁, 3, 1, 0; 1990 VV₂, 3, 1, 0; 1990 VH₃, 4, 1, 0; 1990 VE₄, 3, 1, 0; 1990 VH₅, 8, 2, 3; 1990 WE₉, 4, 1, 0; 1990 XV, 4, 1, 0; 1990 YR, 6, 2, 94; 1991 AK₁, 6, 2, 23; 1991 AE₂, 3, 1, 0; 1991 AF₂, 4, 1, 0; 1991 CJ₁, 4, 1, 0; 1991 CM₁, 3, 1, 0; 1991 EX₂, 3, 1, 0; 1991 EO₅, 6, 2, 26; 1991 FU₃, 3, 1, 0; 1991 FW₃, 12, 2, 12; 1991 GU₄, 3, 1, 0; 1991 GS₆, 9, 3, 53; 1991 GM₈, 8, 2, 12; 1991 GR₁₀, 3, 1, 0; 1991 LF₂, 4, 1, 0; 1991 NK₄, 4, 1, 0; 1991 NQ₆, 4, 1, 0; 1991 PK, 4, 1, 0; 1991 PF₅, 4, 1, 0; 1991 PE₆, 4, 1, 0; 1991 PP₈, 4, 1, 0; 1991 PQ₈, 16, 4, 11; 1991 PD₁₁, 3, 1, 0; 1991 PP₁₁, 4, 1, 0; 1991 PT₁₁, 4, 1, 0; 1991 PO₁₂, 4, 1, 0; 1991 PC₁₆, 4, 1, 0; 1991 PH₁₆, 12, 3,

4; 1991 RM₁, 8, 2, 3; 1991 RR₁, 16, 2, 10; 1991 RC₂, 8, 2, 8; 1991 RU₂, 8, 2, 21; 1991 RY₂, 9, 3, 17; 1991 RK₃, 6, 2, 31; 1991 RT₃, 8, 2, 6; 1991 RN₄, 7, 2, 73; 1991 RQ₄, 3, 1, 0; 1991 RF₆, 12, 3, 5; 1991 RT₆, 4, 1, 0; 1991 RB₇, 12, 2, 4; 1991 RQ₇, 4, 1, 0; 1991 RU₇, 4, 1, 0; 1991 RC₉, 4, 1, 0; 1991 RU₉, 4, 1, 0; 1991 RO₁₁, 7, 2, 74; 1991 RP₁₂, 4, 1, 0; 1991 RN₁₃, 8, 2, 26; 1991 RA₁₄, 6, 2, 19; 1991 RH₁₄, 4, 1, 0; 1991 RG₁₇, 3, 1, 0; 1991 RX₁₇, 4, 1, 0; 1991 RB₁₉, 3, 1, 0; 1991 RX₂₁, 3, 1, 0; 1991 RK₂₃, 4, 1, 0; 1991 RA₂₄, 3, 1, 0; 1991 RY₂₉, 4, 1, 0; 1991 RJ₄₁, 4, 1, 0; 1991 SJ, 4, 1, 0; 1991 SM, 4, 1, 0; 1991 SW, 4, 1, 0; 1991 SA₁, 4, 1, 0; 1991 SK₂, 4, 1, 0; 1991 SM₂, 4, 1, 0; 1991 TB, 4, 1, 0; 1991 TP, 6, 2, 30; 1991 TH₁, 3, 1, 0; 1991 TG₂, 3, 1, 0; 1991 TE₁₄, 12, 2, 12; 1991 TL₁₄, 3, 1, 0; 1991 UK₁, 4, 1, 0; 1991 UJ₂, 4, 1, 0; 1991 UO₂, 4, 1, 0; 1991 UP₃, 4, 1, 0; 1991 VG₁, 7, 2, 12; 1991 VJ₂, 8, 2, 4; 1991 VY₂, 4, 1, 0; 1991 VA₃, 6, 2, 48; 1991 VE₃, 3, 1, 0; 1991 VJ₄, 7, 2, 85; 1991 VA₅, 5, 2, 30; 1991 VY₅, 6, 2, 10; 1991 VH₉, 4, 1, 0; 1991 VM₁₂, 8, 2, 1; 1991 XC, 4, 1, 0; 1991 XF, 4, 1, 0; 1992 AC₁, 3, 1, 0; 1992 BC₁, 4, 1, 0; 1992 CG₃, 8, 2, 10; 1992 DH₁, 7, 2, 74; 1992 DC₇, 3, 1, 0; 1992 DX₈, 8, 2, 3; 1992 EB₄, 3, 1, 0; 1992 EA₆, 12, 3, 5; 1992 ES₆, 3, 1, 0; 1992 EA₈, 3, 1, 0; 1992 EV₈, 3, 1, 0; 1992 EV₈, 3, 1, 0; 1992 EZ₁₀, 4, 1, 0; 1992 EK₁₂, 4, 1, 0; 1992 EN₁₂, 3, 1, 0; 1992 EO₁₂, 9, 3, 28; 1992 EQ₁₃, 3, 1, 0; 1992 ED₁₄, 4, 1, 0; 1992 EK₁₄, 4, 1, 0; 1992 EW₁₆, 2, 1, 0; 1992 ED₁₈, 3, 1, 0; 1992 ER₁₈, 4, 1, 0; 1992 EJ₂₄, 8, 2, 3; 1992 ES₂₈, 3, 1, 0; 1992 FC₂, 4, 1, 0; 1992 GN₂, 3, 1, 0; 1992 GD₃, 4, 1, 0; 1992 GV₃, 7, 2, 80; 1992 GA₅, 8, 1, 0; 1992 GE₅, 3, 1, 0; 1992 HC₂, 3, 1, 0; 1992 HD₄, 4, 1, 0; 1992 JL, 4, 1, 0; 1992 LQ, 3, 1, 0; 1992 OJ₁, 3, 1, 0; 1992 PF, 3, 1, 0; 1992 PP₁, 9, 3, 28; 1992 PA₂, 3, 1, 0; 1992 PG₂, 4, 1, 0; 1992 PE₃, 3, 1, 0; 1992 PZ₃, 6, 2, 25; 1992 RE₂, 8, 2, 12; 1992 RW₂, 3, 1, 0; 1992 RF₅, 12, 3, 10; 1992 SJ, 4, 1, 0; 1992 SO, 6, 2, 1; 1992 ST₁₃, 4, 1, 0; 1992 SS₁₇, 4, 1, 0; 1992 SQ₂₃, 3, 1, 0; 1992 SR₂₅, 8, 2, 12; 1992 TV, 4, 1, 0; 1992 TC₇, 12, 4, 585; 1992 UN, 8, 2, 24; 1992 UZ₃, 8, 2, 12; 1992 UP₆, 8, 2, 10; 1992 UG₇, 3, 1, 0; 1992 VQ, 12, 3, 10; 1992 WG, 4, 1, 0; 1992 WP₁, 4, 1, 0; 1992 WX₁, 4, 1, 0; 1992 WK₂, 12, 4, 62; 1992 WS₆, 9, 3, 29; 1992 WB₉, 4, 1, 0; 1992 YR₂, 3, 1, 0; 1992 YT₃, 9, 3, 32; 1993 BD, 3, 1, 0; 1993 BL₂, 7, 2, 59; 1993 BT₁₄, 4, 1, 0; 1993 DX₂, 3, 1, 0; 1993 FG₁, 11, 3, 569; 1993 FL₁, 4, 1, 0; 1993 FQ₁, 3, 1, 0; 1993 FV₁, 9, 3, 32; 1993 FX₃, 4, 1, 0; 1993 FR₄, 4, 1, 0; 1993 FY₅, 4, 1, 0; 1993 FC₇, 8, 2, 6; 1993 FV₇, 12, 3, 10; 1993 FG₈, 4, 1, 0; 1993 FM₈, 4, 1, 0; 1993 FR₁₀, 8, 1, 0; 1993 FS₁₁, 4, 1, 0; 1993 FH₁₂, 3, 1, 0; 1993 FQ₁₂, 3, 1, 0; 1993 FK₁₃, 4, 1, 0; 1993 FF₁₃, 4, 1, 0; 1993 FV₁₃, 6, 2, 15; 1993 FO₁₄, 3, 1, 0; 1993 FK₁₅, 4, 1, 0; 1993 FD₁₆, 3, 1, 0; 1993 FH₁₆, 3, 1, 0; 1993 FX₁₇, 6, 2, 25; 1993 FY₁₉, 3, 1, 0; 1993 FE₂₀, 3, 1, 0; 1993 FO₂₀, 4, 1, 0; 1993 FB₂₂, 3, 1, 0; 1993 FU₂₂, 4, 1, 0; 1993 FF₂₅, 4, 1, 0; 1993 FQ₂₆, 3, 1, 0; 1993 FS₂₆, 3, 1, 0; 1993 FS₂₇, 6, 2, 1; 1993 FY₂₇, 8, 2, 12; 1993 FX₂₉, 4, 1, 0; 1993 FS₃₁, 3, 1, 0; 1993 FV₃₃, 12, 4, 55; 1993 FQ₃₅, 4, 1, 0; 1993 FY₃₅, 6, 2, 27; 1993 FU₃₇, 3, 1, 0; 1993 FJ₄₀, 4, 1, 0; 1993 FA₄₅, 4, 1, 0; 1993 FQ₄₈, 12, 3, 4; 1993 FF₅₀, 4, 1, 0; 1993 FV₅₀, 3, 1, 0; 1993 FL₅₄, 4, 1, 0; 1993 FN₆₂, 9, 3, 29; 1993 FD₆₇, 6, 2, 12; 1993 FV₈₀, 3, 1, 0; 1993 GA, 4, 1, 0; 1993 GA₁, 4, 1, 0; 1993 HX, 3, 1, 0; 1993 HC₁, 4, 1, 0; 1993 HE₁, 4, 1, 0; 1993 LF₁, 9, 3, 49; 1993 NB, 4, 1, 0; 1993 OU₁, 9, 3, 10; 1993 OD₂, 3, 1, 0; 1993 OY₂, 4, 1, 0; 1993 OP₃, 8, 2, 1; 1993 OQ₄, 4, 1, 0; 1993 OJ₈, 11, 3, 87; 1993 OY₉, 6, 2, 1; 1993 OS₁₂, 8, 2, 12; 1993 PF, 4, 1, 0; 1993 PY₃, 4, 1, 0; 1993 QV₁, 8, 2, 8; 1993 QH₄, 3, 1, 0; 1993 QM₄, 8, 2, 12; 1993 QO₄, 3, 1, 0; 1993 QF₉, 8, 2, 4; 1993 RK₈, 8, 2, 10; 1993 RD₂, 8, 2, 12; 1993 RC₅, 3, 1, 0; 1993 RS₆, 8, 2, 1; 1993 RP₇, 6, 2, 23; 1993 RV₇, 12, 3, 11; 1993 SG₁, 4, 1, 0; 1993 SN₇, 3, 1, 0; 1993 SA₁₄, 4, 1, 0; 1993 SQ₁₄, 4, 1, 0; 1993 TR₁, 3, 1, 0; 1993 TH₄, 8, 2, 22; 1993 TW₈, 8, 2, 10; 1993 TO₁₅, 4, 1, 0; 1993 TK₁₇, 3, 1, 0; 1993 TL₁₇, 4, 1, 0; 1993 TJ₂₁, 6, 2, 9; 1993 TV₂₇, 8, 2, 6; 1993 TH₂₈, 4, 1, 0; 1993 TL₃₂, 16, 4, 10; 1993 TK₃₃, 8, 2, 12; 1993 TJ₃₉, 4, 1, 0; 1993 UK, 4, 1, 0; 1993 UV₂, 8, 2, 2; 1993 UY₂, 3, 1, 0; 1993 UZ₂, 4, 1, 0; 1993 UZ₆, 4, 1, 0; 1993 UX₇, 7, 2, 22; 1993 XW₂, 4, 1, 0; 1994 AC, 3, 1, 0; 1994 AF₃, 4, 1, 0; 1994 AN₉, 4, 1, 0; 1994 AN₁₅, 4, 1, 0; 1994 CN, 4, 1, 0; 1994 CF₂, 16, 4, 10; 1994 CX₁₀, 12, 3, 10; 1994 CQ₁₃, 4, 1, 0; 1994 CT₁₃, 3, 1, 0; 1994 EJ₆, 3, 1, 0; 1994 EU₆, 4, 1, 0; 1994 EC₇, 6, 2, 15; 1994 LB₈, 9, 3, 22; 1994 NL₂, 4, 1, 0; 1994 PN₁, 6, 2, 55; 1994 PU₁, 4, 1, 0; 1994 PF₅, 4, 1, 0; 1994 PK₈, 3, 1, 0; 1994 PF₁₁, 8, 2, 16; 1994 PK₁₅, 3, 1, 0; 1994 PE₁₆, 3, 1, 0; 1994 PJ₁₆, 3, 1, 0; 1994 PU₁₆, 4, 1, 0; 1994 PK₁₈, 3, 1, 0; 1994 PZ₁₈, 3, 1, 0; 1994 PN₁₉, 4, 1, 0; 1994 PV₁₉, 8, 2, 3; 1994 PM₂₅, 4, 1, 0; 1994 PW₂₆, 3, 1, 0; 1994 PS₂₇, 4, 1, 0; 1994 PU₃₂, 8, 2, 1; 1994 PE₃₅, 4, 1, 0; 1994 PN₃₇, 3, 1, 0; 1994 PU₃₇, 3, 1, 0; 1994 QC,

2000 APR. 18

M.P.C. 39737

0; 1995 WM₄, 3, 1, 0; 1995 WY₄, 3, 1, 0; 1995 WH₅, 8, 2, 8; 1995 WK₅, 3, 1, 0; 1995 WU₅, 4, 1, 0; 1995 WO₇, 3, 1, 0; 1995 WT₇, 6, 2, 5; 1995 WU₇, 8, 2, 12; 1995 WZ₇, 3, 1, 0; 1995 WA₈, 16, 4, 10; 1995 WB₂₂, 4, 1, 0; 1995 WN₃₃, 3, 1, 0; 1995 WW₄₂, 8, 2, 8; 1995 XP₁, 4, 1, 0; 1995 YY₄, 4, 1, 0; 1995 YO₁, 3, 1, 0; 1995 YX₁, 8, 1, 0; 1995 YT₂, 3, 1, 0; 1995 YG₃, 4, 1, 0; 1995 YL₃, 8, 2, 12; 1995 YX₃, 5, 2, 17; 1995 YO₇, 9, 3, 17; 1995 YP₈, 6, 2, 35; 1995 YM₂₃, 3, 1, 0; 1996 AT₄, 4, 1, 0; 1996 AZ₆, 2, 22; 1996 AP₃, 7, 2, 6; 1996 AQ₇, 8, 2, 12; 1996 AE₁₄, 3, 1, 0; 1996 AL₁₉, 4, 1, 0; 1996 BA₄, 2, 1, 0; 1996 BU₄, 4, 1, 0; 1996 BZ₃, 3, 1, 0; 1996 BC₁, 4, 1, 0; 1996 BO₁, 3, 1, 0; 1996 BQ₁, 8, 2, 4; 1996 BA₂, 4, 1, 0; 1996 BH₂, 6, 2, 73; 1996 BL₂, 8, 2, 10; 1996 BS₂, 8, 2, 2; 1996 BV₂, 3, 1, 0; 1996 BA₃, 6, 2, 10; 1996 BL₃, 4, 1, 0; 1996 BX₄, 4, 1, 0; 1996 CQ₁₁, 3, 85; 1996 CP₁, 3, 1, 0; 1996 CQ₁, 2, 1, 0; 1996 CO₂, 3, 1, 0; 1996 CX₈, 4, 1, 0; 1996 CM₉, 3, 1, 0; 1996 DH₄, 4, 1, 0; 1996 DO₃, 3, 1, 0; 1996 DU₈, 2, 7; 1996 DB₁, 16, 4, 10; 1996 DL₁, 3, 1, 0; 1996 DH₂, 4, 1, 0; 1996 DK₂, 3, 1, 0; 1996 EV₈, 8, 2, 2; 1996 EC₁, 8, 2, 7; 1996 EL₁, 7, 2, 81; 1996 ER₂, 4, 1, 0; 1996 EC₆, 8, 2, 8; 1996 FD₃, 3, 1, 0; 1996 FZ₃, 3, 1, 0; 1996 FM₂, 4, 1, 0; 1996 FJ₅, 4, 1, 0; 1996 GK₄, 1, 0; 1996 GN₂, 4, 1, 0; 1996 GT₂, 3, 1, 0; 1996 GL₃, 4, 1, 0; 1996 GE₆, 3, 1, 0; 1996 GS₉, 4, 1, 0; 1996 GO₁₃, 4, 1, 0; 1996 GK₁₇, 8, 1, 0; 1996 GA₁₈, 4, 1, 0; 1996 GG₁₈, 8, 2, 8; 1996 HP₈, 8, 2, 2; 1996 HL₁, 4, 1, 0; 1996 HY₁, 4, 1, 0; 1996 HW₈, 8, 2, 5; 1996 HM₁₀, 3, 1, 0; 1996 HM₁₁, 8, 2, 10; 1996 HO₁₄, 4, 1, 0; 1996 HT₁₅, 3, 1, 0; 1996 HE₂₅, 8, 2, 12; 1996 HK₂₅, 8, 2, 6; 1996 HU₂₅, 8, 2, 3; 1996 JF₁, 4, 1, 0; 1996 JP₁₂, 8, 2, 23; 1996 LJ₁, 4, 1, 0; 1996 LM₂, 4, 1, 0; 1996 LS₂, 4, 1, 0; 1996 NB₇, 2, 2; 1996 NG₄, 4, 1, 0; 1996 NK₅, 4, 1, 0; 1996 QT₁, 8, 2, 12; 1996 RQ₃, 3, 1, 0; 1996 RZ₃₀, 3, 1, 0; 1996 TG₆, 3, 1, 0; 1996 TR₁₄, 4, 1, 0; 1996 TT₃₈, 4, 1, 0; 1996 VS₁, 3, 1, 0; 1996 WA₁, 3, 1, 0; 1996 WL₃, 3, 1, 0; 1996 XG₃, 3, 1, 0; 1996 XK₂₂, 3, 1, 0; 1996 XD₃₁, 5, 2, 24; 1996 YP₉, 3, 38; 1996 YR₆, 2, 10; 1996 YA₂, 3, 1, 0; 1996 YE₂, 9, 3, 29; 1997 AV₃, 3, 1, 0; 1997 AQ₁, 3, 1, 0; 1997 AW₁, 11, 4, 29; 1997 AD₂, 9, 3, 25; 1997 AJ₂, 3, 1, 0; 1997 AN₂, 6, 2, 33; 1997 AY₃, 6, 2, 28; 1997 AE₅, 3, 1, 0; 1997 AN₅, 3, 1, 0; 1997 AV₅, 3, 1, 0; 1997 AQ₆, 4, 1, 0; 1997 AY₇, 3, 1, 0; 1997 AU₁₂, 3, 1, 0; 1997 AD₁₃, 6, 2, 10; 1997 AJ₁₃, 3, 1, 0; 1997 AV₁₅, 8, 2, 15; 1997 AB₁₈, 3, 1, 0; 1997 AC₁₈, 3, 1, 0; 1997 AV₁₈, 4, 1, 0; 1997 BZ₆, 2, 1; 1997 BC₃, 3, 1, 0; 1997 BS₄, 9, 3, 27; 1997 CZ₃, 1, 0; 1997 CH₁, 3, 1, 0; 1997 CW₁, 3, 1, 0; 1997 CH₂₀, 3, 1, 0; 1997 CE₂₁, 3, 1, 0; 1997 CE₂₂, 6, 2, 9; 1997 CB₂₆, 3, 1, 0; 1997 CY₂₇, 3, 1, 0; 1997 DL₃, 3, 1, 0; 1997 DW₃, 3, 1, 0; 1997 EY₂, 3, 1, 0; 1997 ED₃, 3, 1, 0; 1997 EO₇, 3, 1, 0; 1997 ET₇, 3, 1, 0; 1997 EX₁₃, 3, 1, 0; 1997 EK₁₆, 3, 1, 0; 1997 EF₂₃, 6, 2, 33; 1997 EP₂₅, 3, 1, 0; 1997 EO₃₀, 3, 1, 0; 1997 EY₄₅, 3, 1, 0; 1997 EB₅₇, 9, 3, 18; 1997 FE₁, 3, 1, 0; 1997 FM₂, 6, 2, 24; 1997 FO₂, 6, 2, 29; 1997 FM₃, 3, 1, 0; 1997 FZ₃, 3, 1, 0; 1997 FG₄, 3, 1, 0; 1997 FM₄, 3, 1, 0; 1997 GY₄, 4, 1, 0; 1997 GT₃, 6, 2, 3; 1997 GU₃, 6, 2, 16; 1997 GZ₇, 6, 2, 18; 1997 GC₈, 8, 2, 12; 1997 GM₈, 4, 1, 0; 1997 GB₁₄, 4, 1, 0; 1997 GL₁₅, 3, 1, 0; 1997 GS₁₆, 3, 1, 0; 1997 GZ₁₆, 4, 1, 0; 1997 GX₂₀, 4, 1, 0; 1997 GS₂₁, 4, 1, 0; 1997 GV₂₁, 4, 1, 0; 1997 GX₂₁, 6, 2, 9; 1997 GE₂₂, 10, 3, 510; 1997 GG₂₃, 3, 1, 0; 1997 GR₂₅, 3, 1, 0; 1997 GA₂₆, 4, 1, 0; 1997 GB₂₆, 3, 1, 0; 1997 GO₂₈, 3, 1, 0; 1997 GQ₃₄, 6, 2, 3; 1997 GW₃₄, 3, 1, 0; 1997 GS₃₅, 4, 1, 0; 1997 GH₃₆, 3, 1, 0; 1997 GM₄₁, 9, 3, 29; 1997 HY₉, 4, 1, 0; 1997 JN₄, 4, 1, 0; 1997 JB₈, 4, 1, 0; 1997 JD₁₂, 4, 1, 0; 1997 JN₁₂, 3, 1, 0; 1997 JN₁₅, 4, 1, 0; 1997 JF₁₆, 4, 1, 0; 1997 JQ₁₆, 3, 1, 0; 1997 KS₄, 4, 1, 0; 1997 KW₄, 4, 1, 0; 1997 KH₄, 4, 1, 0; 1997 LR₄, 4, 1, 0; 1997 LL₈, 8, 2, 12; 1997 LO₃, 4, 1, 0; 1997 LE₄, 6, 2, 9; 1997 LF₄, 4, 1, 0; 1997 LE₁₀, 9, 3, 33; 1997 MG₃, 3, 1, 0; 1997 MT₃, 4, 1, 0; 1997 MN₄, 4, 1, 0; 1997 MY₅, 4, 1, 0; 1997 NA₈, 1, 0; 1997 NO₈, 8, 2, 2; 1997 NP₄, 4, 1, 0; 1997 NR₂, 8, 2, 1; 1997 NE₃, 4, 1, 0; 1997 NM₃, 4, 1, 0; 1997 OA₃, 3, 1, 0; 1997 OU₂, 8, 2, 2; 1997 PR₄, 4, 1, 0; 1997 PE₃, 7, 2, 80; 1997 PA₄, 4, 1, 0; 1997 QE₈, 8, 2, 3; 1997 QY₄, 4, 1, 0; 1997 QA₈, 8, 2, 7; 1997 QC₂, 3, 1, 0; 1997 QE₂, 4, 1, 0; 1997 QS₂, 12, 2, 12; 1997 RH₈, 8, 2, 12; 1997 RO₄, 4, 1, 0; 1997 RZ₈, 8, 2, 10; 1997 RC₃, 4, 1, 0; 1997 RE₃, 12, 3, 4; 1997 RL₇, 4, 1, 0; 1997 RY₈, 8, 2, 3; 1997 RB₉, 4, 1, 0; 1997 RM₉, 8, 2, 12; 1997 RJ₁₀, 8, 2, 4; 1997 RP₁₀, 4, 1, 0; 1997 SR₄, 4, 1, 0; 1997 SX₄, 4, 1, 0; 1997 SM₁, 8, 2, 4; 1997 SZ₄, 4, 1, 0; 1997 SA₃, 4, 1, 0; 1997 SM₃, 4, 1, 0; 1997 SE₄, 7, 2, 6; 1997 SS₄, 12, 3, 7; 1997 SQ₂, 4, 1, 0; 1997 SG₇, 3, 1, 0; 1997 SQ₉, 4, 1, 0; 1997 SR₁₀, 12, 3, 10; 1997 SF₁₁, 8, 2, 7; 1997 SG₂₁, 8, 2, 6; 1997 SK₂₅, 4, 1, 0; 1997 SN₂₅, 4, 1, 0; 1997 SS₃₁, 4, 1, 0; 1997 TR₄, 4, 1, 0; 1997 TM₁, 8, 2, 11; 1997 TW₇, 2, 10; 1997 TZ₁₀, 8, 2, 12; 1997 TB₁₈, 4, 1, 0; 1997 TM₁₈, 8, 2, 4; 1997 TR₁₈, 4, 1, 0; 1997 TX₁₈, 4, 1, 0; 1997 TS₂₂, 8, 2, 4; 1997 TA₂₅, 8, 2, 8; 1997 TE₂₅, 4, 1, 0; 1997 TA₂₆, 4, 1, 0; 1997 TN₂₆, 4, 1, 0; 1997 TM₂₇, 11, 3, 87; 1997 UG₅, 4, 1, 0; 1997 UB₇, 4, 1, 0; 1997 UK₈, 4, 1, 0; 1997 UN₈, 4, 1, 0; 1997 UX₈, 3, 1, 0; 1997 US₁₀, 4, 1, 0; 1997 UC₁₁, 4, 1, 0; 1997 UW₁₄, 8, 2, 5; 1997 UY₁₄, 8, 2, 3; 1997 UC₁₅, 12, 3, 11; 1997 UW₁₈, 3, 1, 0; 1997 UX₂₀, 4, 1, 0; 1997 UT₂₁, 3, 1, 0; 1997 UC₂₂, 4, 1, 0; 1997 UH₂₂, 4, 1, 0; 1997 UT₂₂, 4, 1, 0; 1997 UZ₂₃, 3, 406; 1997 UE₂₅, 12, 3, 5; 1997 VQ₄, 4, 1, 0; 1997 VF₁, 4, 1, 0; 1997 VN₁, 8, 2, 3; 1997 VM₂, 4, 1, 0; 1997 VC₅, 4, 1, 0; 1997 VG₈, 4, 1, 0; 1997 WG₁, 4, 1, 0; 1997 WK₂, 8, 2, 3; 1997 WZ₇, 4, 1, 0; 1997 WQ₁₁, 8, 2, 12; 1997 WB₃₃, 3, 1, 0; 1997 WC₃₄, 4, 1, 0; 1997 WN₃₆, 4, 1, 0; 1997 WB₃₇, 8, 2, 2; 1997 WN₃₈, 4, 1, 0; 1997 WZ₄₂, 4, 1, 0; 1997 WP₄₇, 8, 2, 10; 1997 XY₁₀, 4, 1, 0; 1997 YO₁₄, 8, 2, 10; 1997 YQ₁₉, 4, 1, 0; 1998 AV₅, 6, 2, 33; 1998 DO₇, 3, 1, 0; 1998 DS₉, 3, 1, 0; 1998 DQ₁₀, 3, 1, 0; 1998 DQ₂₃, 6, 2, 37; 1998 DR₂₇, 6, 2, 31; 1998 DR₃₅, 3, 1, 0; 1998 EF₆, 3, 1, 0; 1998 EQ₆, 3, 1, 0; 1998 EW₆, 3, 1, 0; 1998 EQ₁₀, 3, 1, 0; 1998 EZ₁₀, 3, 1, 0; 1998 EU₁₂, 3, 1, 0; 1998 ER₁₄, 3, 1, 0; 1998 FK₂, 3, 1, 0; 1998 FG₄, 3, 1, 0; 1998 FB₅, 3, 1, 0; 1998 FJ₅, 3, 1, 0; 1998 FB₁₂, 6, 2, 31; 1998 FD₁₅, 3, 1, 0; 1998 FW₂₀, 3, 1, 0; 1998 FY₃₅, 3, 1, 0; 1998 FR₄₈, 6, 2, 14; 1998 FM₅₇, 3, 1, 0; 1998 FS₅₇, 6, 2, 33; 1998 FC₅₈, 3, 1, 0; 1998 FL₆₀, 3, 1, 0; 1998 FG₆₁, 3, 1, 0; 1998 FP₆₄, 3, 1, 0; 1998 FK₆₅, 3, 1, 0; 1998 FV₆₅, 3, 1, 0; 1998 FK₆₇, 3, 1, 0; 1998 FN₇₀, 3,

1, 0; 1998 FR₇₂, 3, 1, 0; 1998 FM₇₈, 3, 1, 0; 1998 FT₇₉, 3, 1, 0; 1998 FV₉₀, 6, 2, 28; 1998 FZ₉₉, 3, 1, 0; 1998 FO₁₀₃, 6, 2, 26; 1998 FB₁₀₆, 9, 3, 29; 1998 FK₁₀₆, 3, 1, 0; 1998 FN₁₀₉, 6, 2, 13; 1998 FP₁₁₃, 3, 1, 0; 1998 FR₁₁₃, 3, 1, 0; 1998 FS₁₁₃, 3, 1, 0; 1998 FJ₁₁₄, 3, 1, 0; 1998 FC₁₁₆, 3, 1, 0; 1998 FD₁₁₇, 3, 1, 0; 1998 FW₁₁₈, 3, 1, 0; 1998 FQ₁₂₂, 9, 3, 27; 1998 FQ₁₃₃, 3, 1, 0; 1998 GK₁, 3, 1, 0; 1998 GO₁₀, 3, 1, 0; 1998 HX₆, 2, 26; 1998 HU₂, 9, 3, 16; 1998 HB₂, 3, 1, 0; 1998 HF₄, 3, 1, 0; 1998 HT₄, 9, 3, 18; 1998 HU₅, 3, 1, 0; 1998 HT₈, 3, 1, 0; 1998 HH₁₁, 6, 2, 28; 1998 HE₂₀, 3, 1, 0; 1998 HW₂₅, 3, 1, 0; 1998 HO₂₇, 3, 1, 0; 1998 HQ₂₇, 3, 1, 0; 1998 HD₃₂, 6, 2, 12; 1998 HN₃₂, 3, 1, 0; 1998 HR₃₄, 6, 2, 22; 1998 HC₃₆, 3, 1, 0; 1998 HG₃₇, 3, 1, 0; 1998 HO₄₃, 6, 2, 27; 1998 HY₄₃, 3, 1, 0; 1998 HJ₅₁, 3, 1, 0; 1998 HT₅₁, 6, 2, 24; 1998 HU₅₁, 6, 2, 25; 1998 HE₈₇, 3, 1, 0; 1998 HL₉₁, 6, 2, 7; 1998 HR₉₄, 3, 1, 0; 1998 HV₉₅, 3, 1, 0; 1998 HG₉₇, 3, 1, 0; 1998 HC₁₀₈, 9, 3, 16; 1998 HX₁₁₀, 6, 2, 9; 1998 HN₁₁₁, 3, 1, 0; 1998 HB₁₁₄, 9, 3, 15; 1998 HE₁₂₃, 3, 1, 0; 1998 HH₁₂₃, 6, 2, 1; 1998 HQ₁₃₄, 6, 2, 28; 1998 HN₁₃₉, 3, 1, 0; 1998 HP₁₃₉, 3, 1, 0; 1998 HK₁₄₃, 6, 2, 22; 1998 HN₁₄₃, 3, 1, 0; 1998 HA₁₄₈, 6, 2, 20; 1998 HV₁₄₈, 3, 1, 0; 1998 HW₁₄₈, 3, 1, 0; 1998 HD₁₄₉, 3, 1, 0; 1998 HT₁₄₉, 3, 1, 0; 1998 JE₆, 2, 26; 1998 JS₃, 1, 0; 1998 JH₁, 3, 1, 0; 1998 JT₁, 3, 1, 0; 1998 JF₂, 6, 2, 7; 1998 KU₃, 3, 1, 0; 1998 KC₅, 3, 1, 0; 1998 KB₇, 3, 1, 0; 1998 KC₈, 3, 1, 0; 1998 KY₅, 5, 2, 5; 1998 KB₉, 3, 1, 0; 1998 KW₉, 3, 1, 0; 1998 KD₁₀, 3, 1, 0; 1998 KJ₁₀, 9, 3, 28; 1998 KK₁₀, 6, 2, 5; 1998 KG₂₈, 3, 1, 0; 1998 KA₂₉, 9, 3, 25; 1998 KS₃₂, 3, 1, 0; 1998 KU₃₃, 3, 1, 0; 1998 KZ₃₃, 3, 1, 0; 1998 KG₃₅, 6, 2, 9; 1998 KQ₃₅, 3, 1, 0; 1998 KL₃₇, 3, 1, 0; 1998 KE₄₀, 3, 1, 0; 1998 KH₄₄, 9, 3, 31; 1998 KM₄₅, 3, 1, 0; 1998 KQ₄₅, 3, 1, 0; 1998 KW₄₆, 3, 1, 0; 1998 KJ₄₇, 3, 1, 0; 1998 KV₄₇, 3, 1, 0; 1998 KI₅₂, 3, 1, 0; 1998 KS₅₃, 3, 1, 0; 1998 KS₅₆, 6, 2, 22; 1998 KJ₅₈, 3, 1, 0; 1998 KN₆₃, 3, 1, 0; 1998 MD₁₃, 9, 3, 31; 1998 MZ₁₃, 6, 2, 15; 1998 MR₁₅, 6, 2, 41; 1998 MQ₁₇, 6, 2, 15; 1998 MP₂₃, 9, 3, 54; 1998 MZ₂₃, 3, 1, 0; 1998 MS₃₁, 3, 1, 0; 1998 MC₃₂, 3, 1, 0; 1998 MF₃₂, 3, 1, 0; 1998 MN₃₃, 6, 2, 9; 1998 MP₃₃, 12, 4, 17; 1998 MR₃₅, 6, 2, 10; 1998 MH₄₀, 9, 3, 10; 1998 NF₃, 3, 1, 0; 1998 NH₃, 3, 1, 0; 1998 OY₄, 4, 1, 0; 1998 OL₈, 9, 3, 25; 1998 OH₁₀, 4, 1, 0; 1998 OQ₁₀, 3, 1, 0; 1998 ON₁₁, 3, 1, 0; 1998 OW₁₁, 3, 1, 0; 1998 OS₁₂, 4, 1, 0; 1998 OB₁₃, 6, 2, 19; 1998 ON₁₃, 4, 1, 0; 1998 ON₁₄, 4, 1, 0; 1998 OT₁₄, 4, 1, 0; 1998 PV₃, 3, 1, 0; 1998 PP₁, 3, 1, 0; 1998 QC₄, 4, 1, 0; 1998 QO₁, 4, 1, 0; 1998 QO₂, 4, 1, 0; 1998 QH₃, 3, 1, 0; 1998 QQ₅, 4, 1, 0; 1998 QS₅, 4, 1, 0; 1998 QN₆, 4, 1, 0; 1998 QC₇, 6, 2, 5; 1998 QO₈, 3, 1, 0; 1998 QX₁₀, 6, 2, 13; 1998 QZ₁₁, 3, 1, 0; 1998 QE₁₂, 9, 3, 18; 1998 QV₁₂, 3, 1, 0; 1998 QA₁₄, 6, 2, 30; 1998 QH₁₄, 3, 1, 0; 1998 QD₁₆, 3, 1, 0; 1998 QH₁₆, 6, 2, 51; 1998 QE₁₇, 7, 2, 108; 1998 QN₁₇, 3, 1, 0; 1998 QA₂₀, 3, 1, 0; 1998 QA₂₂, 6, 2, 19; 1998 QW₂₂, 8, 2, 14; 1998 QW₂₃, 4, 1, 0; 1998 QV₂₄, 8, 2, 7; 1998 QZ₂₄, 3, 1, 0; 1998 QS₂₆, 3, 1, 0; 1998 QA₂₇, 3, 1, 0; 1998 QF₂₇, 4, 1, 0; 1998 QM₂₈, 3, 1, 0; 1998 QP₃₁, 3, 1, 0; 1998 QW₃₁, 4, 1, 0; 1998 QQ₃₅, 4, 1, 0; 1998 QW₃₆, 3, 1, 0; 1998 QM₃₇, 3, 1, 0; 1998 QF₃₈, 3, 1, 0; 1998 QP₃₈, 4, 1, 0; 1998 QT₃₈, 4, 1, 0; 1998 QY₃₈, 4, 1, 0; 1998 QH₃₉, 3, 1, 0; 1998 QM₃₉, 4, 1, 0; 1998 QE₄₀, 8, 1, 0; 1998 QN₄₀, 3, 1, 0; 1998 QY₄₀, 4, 1, 0; 1998 QJ₄₁, 3, 1, 0; 1998 QL₄₁, 4, 1, 0; 1998 QE₄₃, 4, 1, 0; 1998 QA₄₄, 8, 2, 12; 1998 QU₄₄, 3, 1, 0; 1998 QC₄₅, 3, 1, 0; 1998 QD₄₅, 4, 1, 0; 1998 QS₄₇, 3, 1, 0; 1998 QT₄₇, 4, 1, 0; 1998 QD₄₈, 7, 2, 12; 1998 QL₅₀, 4, 1, 0; 1998 QK₅₁, 4, 1, 0; 1998 QN₅₁, 4, 1, 0; 1998 QO₅₁, 3, 1, 0; 1998 QT₅₁, 7, 2, 73; 1998 QE₅₄, 3, 1, 0; 1998 QK₅₄, 3, 1, 0; 1998 QT₅₄, 8, 2, 8; 1998 QX₅₄, 8, 2, 12; 1998 QZ₅₄, 4, 1, 0; 1998 QD₅₅, 4, 1, 0; 1998 QH₅₅, 4, 1, 0; 1998 QZ₅₅, 4, 1, 0; 1998 QC₅₆, 4, 1, 0; 1998 QG₅₆, 4, 1, 0; 1998 QX₅₇, 4, 1, 0; 1998 QC₅₈, 4, 1, 0; 1998

9, 3, 451; 1998 RB₇₇, 3, 1, 0; 1998 RD₇₇, 4, 1, 0; 1998 RR₇₇, 11, 3, 85; 1998 RY₇₇, 7, 2, 73; 1998 RC₇₈, 3, 1, 0; 1998 RW₇₉, 8, 2, 1; 1998 RX₇₉, 7, 2, 80; 1998 RZ₇₉, 3, 1, 0; 1998 RK₈₀, 3, 1, 0; 1998 RL₈₀, 11, 3, 85; 1998 SA₁, 3, 1, 0; 1998 SG₁, 4, 1, 0; 1998 SK₁, 3, 1, 0; 1998 SM₄, 3, 1, 0; 1998 SW₄, 20, 5, 11; 1998 SG₅, 4, 1, 0; 1998 ST₇, 4, 1, 0; 1998 SM₉, 8, 2, 16; 1998 SE₁₀, 3, 1, 0; 1998 SV₁₂, 4, 1, 0; 1998 SN₁₃, 4, 1, 0; 1998 SG₁₅, 4, 1, 0; 1998 SS₁₉, 3, 1, 0; 1998 SR₂₁, 8, 2, 12; 1998 SU₂₁, 4, 1, 0; 1998 SA₂₂, 4, 1, 0; 1998 SA₂₂, 8, 2, 12; 1998 SV₂₂, 4, 1, 0; 1998 SV₂₂, 8, 2, 12; 1998 SW₂₂, 4, 1, 0; 1998 SB₂₃, 6, 2, 58; 1998 SW₂₃, 4, 1, 0; 1998 SU₂₄, 4, 1, 0; 1998 SZ₂₄, 3, 1, 0; 1998 SA₂₅, 7, 2, 85; 1998 SC₂₅, 3, 1, 0; 1998 SJ₂₅, 12, 3, 5; 1998 SZ₂₅, 4, 1, 0; 1998 SA₂₆, 4, 1, 0; 1998 SQ₂₆, 3, 1, 0; 1998 SC₂₇, 3, 1, 0; 1998 SN₂₇, 6, 2, 6; 1998 SS₂₇, 3, 1, 0; 1998 SP₂₈, 3, 1, 0; 1998 SY₃₁, 4, 1, 0; 1998 SW₃₂, 4, 1, 0; 1998 SY₃₃, 3, 1, 0; 1998 SX₃₄, 11, 3, 568; 1998 SL₃₅, 8, 2, 12; 1998 SZ₃₆, 3, 1, 0; 1998 SF₃₇, 4, 1, 0; 1998 SU₃₇, 8, 2, 7; 1998 SV₃₈, 8, 2, 24; 1998 SM₄₁, 4, 1, 0; 1998 SQ₄₂, 4, 1, 0; 1998 SK₄₃, 4, 1, 0; 1998 ST₄₃, 4, 1, 0; 1998 SG₄₅, 3, 1, 0; 1998 SD₄₆, 8, 2, 12; 1998 SG₄₆, 8, 2, 22; 1998 SE₄₇, 4, 1, 0; 1998 SK₄₈, 4, 1, 0; 1998 SN₄₈, 8, 2, 4; 1998 SD₄₉, 4, 1, 0; 1998 SO₅₀, 4, 1, 0; 1998 ST₅₂, 4, 1, 0; 1998 SW₅₂, 8, 2, 4; 1998 SP₅₃, 3, 1, 0; 1998 SS₅₃, 3, 1, 0; 1998 ST₅₃, 4, 1, 0; 1998 SY₅₃, 4, 1, 0; 1998 SB₅₄, 4, 1, 0; 1998 SP₅₄, 4, 1, 0; 1998 SC₅₅, 12, 3, 5; 1998 SX₅₅, 4, 1, 0; 1998 SF₅₇, 6, 2, 13; 1998 SL₅₇, 4, 1, 0; 1998 SV₅₇, 4, 1, 0; 1998 SR₅₈, 4, 1, 0; 1998 SV₅₈, 4, 1, 0; 1998 SD₅₉, 3, 1, 0; 1998 SN₅₉, 4, 1, 0; 1998 SG₆₀, 6, 2, 6; 1998 SU₆₀, 8, 1, 0; 1998 SY₆₀, 8, 2, 12; 1998 SS₆₂, 3, 1, 0; 1998 SK₆₃, 3, 1, 0; 1998 SQ₆₃, 4, 1, 0; 1998 SS₆₃, 4, 1, 0; 1998 ST₆₃, 4, 1, 0; 1998 SY₆₃, 4, 1, 0; 1998 SJ₆₄, 7, 2, 85; 1998 SL₆₄, 4, 1, 0; 1998 SM₆₄, 4, 1, 0; 1998 SZ₆₄, 7, 2, 80; 1998 SG₆₅, 4, 1, 0; 1998 SL₆₅, 4, 1, 0; 1998 SV₆₅, 4, 1, 0; 1998 SJ₆₆, 3, 1, 0; 1998 SF₆₆, 4, 1, 0; 1998 SD₆₇, 4, 1, 0; 1998 ST₆₇, 4, 1, 0; 1998 SA₇₁, 4, 1, 0; 1998 SH₇₁, 4, 1, 0; 1998 SN₇₁, 3, 1, 0; 1998 SQ₇₁, 3, 1, 0; 1998 SG₇₃, 8, 2, 1; 1998 SK₇₃, 3, 1, 0; 1998 SW₇₃, 4, 1, 0; 1998 SG₇₄, 8, 2, 5; 1998 SK₇₄, 4, 1, 0; 1998 SM₇₄, 3, 1, 0; 1998 SV₇₄, 4, 1, 0; 1998 SW₇₄, 4, 1, 0; 1998 SK₇₅, 3, 1, 0; 1998 SY₇₅, 4, 1, 0; 1998 SY₇₅, 4, 1, 0; 1998 SY₈₅, 6, 2, 8; 1998 SA₈₇, 6, 2, 29; 1998 SN₈₇, 3, 1, 0; 1998 SM₉₁, 4, 1, 0; 1998 SZ₉₉, 3, 1, 0; 1998 SE₁₀₂, 4, 1, 0; 1998 SC₁₀₃, 4, 1, 0; 1998 SG₁₀₅, 4, 1, 0; 1998 SH₁₀₅, 3, 1, 0; 1998 SV₁₀₅, 3, 1, 0; 1998 SD₁₀₆, 8, 2, 8; 1998 SM₁₀₇, 3, 1, 0; 1998 SV₁₀₇, 3, 1, 0; 1998 SA₁₀₉, 8, 2, 10; 1998 SL₁₀₉, 9, 3, 64; 1998 SA₁₁₀, 6, 2, 25; 1998 SD₁₁₀, 4, 1, 0; 1998 SL₁₁₀, 3, 1, 0; 1998 SV₁₁₀, 8, 2, 12; 1998 SE₁₁₁, 12, 3, 10; 1998 SR₁₁₁, 4, 1, 0; 1998 SC₁₁₂, 4, 1, 0; 1998 SR₁₁₄, 3, 1, 0; 1998 SM₁₁₅, 3, 1, 0; 1998 SR₁₁₅, 4, 1, 0; 1998 SW₁₁₅, 3, 1, 0; 1998 SX₁₁₅, 3, 1, 0; 1998 SM₁₁₆, 8, 2, 6; 1998 SR₁₁₆, 4, 1, 0; 1998 SE₁₁₇, 4, 1, 0; 1998 SN₁₁₇, 3, 1, 0; 1998 SW₁₁₇, 3, 1, 0; 1998 SA₁₁₈, 13, 4, 567; 1998 SK₁₁₈, 3, 1, 0; 1998 ST₁₁₈, 4, 1, 0; 1998 SY₁₁₈, 4, 1, 0; 1998 SM₁₁₉, 3, 1, 0; 1998 SB₁₂₁, 4, 1, 0; 1998 SF₁₂₁, 4, 1, 0; 1998 SD₁₂₃, 12, 3, 10; 1998 SJ₁₂₃, 4, 1, 0; 1998 SX₁₂₃, 4, 1, 0; 1998 SK₁₂₄, 12, 3, 10; 1998 SL₁₂₄, 4, 1, 0; 1998 SU₁₂₄, 4, 1, 0; 1998 SN₁₂₅, 3, 1, 0; 1998 SE₁₂₆, 15, 3, 5; 1998 SU₁₂₆, 3, 1, 0; 1998 SV₁₂₆, 3, 1, 0; 1998 SX₁₂₇, 4, 1, 0; 1998 SY₁₂₈, 4, 1, 0; 1998 SC₁₂₉, 3, 1, 0; 1998 SW₁₂₉, 4, 1, 0; 1998 SF₁₃₀, 3, 1, 0; 1998 SS₁₃₀, 3, 1, 0; 1998 SV₁₃₀, 3, 1, 0; 1998 SB₁₃₁, 3, 1, 0; 1998 SN₁₃₁, 4, 1, 0; 1998 ST₁₃₁, 8, 2, 10; 1998 SG₁₃₂, 7, 2, 80; 1998 SK₁₃₂, 3, 1, 0; 1998 SR₁₃₂, 16, 4, 10; 1998 SS₁₃₂, 4, 1, 0; 1998 ST₁₃₂, 3, 1, 0; 1998 SU₁₃₂, 4, 1, 0; 1998 SX₁₃₂, 3, 1, 0; 1998 SG₁₃₃, 4, 1, 0; 1998 SM₁₃₃, 3, 1, 0; 1998 SN₁₃₃, 4, 1, 0; 1998 SS₁₃₃, 3, 1, 0; 1998 SH₁₃₄, 7, 2, 73; 1998 SP₁₃₄, 8, 2, 22; 1998 SJ₁₃₅, 3, 1, 0; 1998 SV₁₃₇, 3, 1, 0; 1998 SC₁₃₇, 3, 1, 0; 1998 SC₁₃₈, 3, 1, 0; 1998 SN₁₃₈, 3, 1, 0; 1998 ST₁₃₈, 4, 1, 0; 1998 SW₁₃₈, 4, 1, 0; 1998 SY₁₃₈, 4, 1, 0; 1998 SB₁₃₉, 3, 1, 0; 1998 SU₁₃₉, 8, 2, 10; 1998 SZ₁₃₉, 3, 1, 0; 1998 SX₁₄₀, 3, 1, 0; 1998 SG₁₄₂, 3, 1, 0; 1998 ST₁₄₂, 4, 1, 0; 1998 SC₁₄₄, 3, 1, 0; 1998 SD₁₄₄, 4, 1, 0; 1998 SE₁₄₄, 11, 3, 85; 1998 SM₁₄₄, 4, 1, 0; 1998 SQ₁₄₄, 3, 1, 0; 1998 SR₁₄₄, 4, 1, 0; 1998 SB₁₄₅, 3, 1, 0; 1998 SM₁₄₅, 8, 2, 1; 1998 SW₁₄₅, 16, 4, 10; 1998 SB₁₄₆, 4, 1, 0; 1998 SE₁₄₆, 3, 1, 0; 1998 ST₁₄₆, 4, 1, 0; 1998 SU₁₄₇, 4, 1, 0; 1998 SA₁₄₈, 8, 2, 12; 1998 SK₁₅₁, 12, 3, 10; 1998 SQ₁₅₄, 3, 1, 0; 1998 SG₁₅₆, 3, 1, 0; 1998 SP₁₅₆, 12, 2, 11; 1998 SD₁₅₉, 3, 1, 0; 1998 SS₁₆₁, 8, 2, 4; 1998 SE₁₆₃, 3, 1, 0; 1998 SC₁₆₄, 4, 1, 0; 1998 SK₁₆₄, 4, 1, 0; 1998 TA₄, 1, 0; 1998 TB₄, 1, 0; 1998 TF₄, 4, 1, 0; 1998 TZ₁, 12, 2, 8; 1998 TC₂, 3, 1, 0; 1998 TN₂, 12, 2, 12; 1998 TP₂, 3, 1, 0; 1998 TJ₄, 3, 1, 0; 1998 TD₅, 8, 2, 12; 1998 TK₅, 4, 1, 0; 1998 TO₅, 4, 1, 0; 1998 TR₅, 8, 2, 12; 1998 TA₆, 4, 1, 0; 1998 TC₆, 4, 1, 0; 1998 TQ₆, 4, 1, 0; 1998 TU₆, 3, 1, 0; 1998 TX₇, 8, 2, 8; 1998 TN₁₀, 8, 2, 12; 1998 TV₁₂, 4, 1, 0; 1998 TJ₁₃, 12, 3, 10; 1998 TH₁₆, 4, 1, 0; 1998 TD₂₇, 4, 1, 0; 1998 TR₂₈, 3, 1, 0; 1998 TX₂₈, 4, 1, 0; 1998 TK₃₀, 4, 1, 0; 1998 TO₃₀, 4, 1, 0; 1998 TN₃₁, 7, 2, 84; 1998 TA₃₂, 3, 1, 0; 1998 TC₃₂, 8, 2, 4; 1998 TF₃₃, 7, 2, 87; 1998 TM₃₃, 3, 1, 0; 1998 TS₃₃, 3, 1, 0; 1998 TG₃₄, 4, 1, 0; 1998 TO₃₄, 12, 3, 4; 1998 TR₃₄, 8, 2, 1; 1998 TA₃₅, 3, 1, 0; 1998 UC₁, 8, 2, 2; 1998 UX₁, 3, 1, 0; 1998 UX₂, 12, 3, 10; 1998 UC₃, 3, 1, 0; 1998 UW₅, 8, 2, 12; 1998 UC₇, 4, 1, 0; 1998 UH₇, 3, 1, 0; 1998 UJ₇, 3, 1, 0; 1998 UN₇, 3, 1, 0; 1998 UO₇, 3, 1, 0; 1998 UW₇, 12, 3, 10; 1998 UE₈, 2, 1, 0; 1998 UF₉, 4, 1, 0; 1998 UA₁₅, 4, 1, 0; 1998 UC₁₅, 8, 2, 5; 1998 UH₁₅, 4, 1, 0; 1998 UM₁₅, 8, 2, 8; 1998 UF₁₅, 4, 1, 0; 1998 UQ₁₅, 4, 1, 0; 1998 UX₁₅, 4, 1, 0; 1998 UO₁₆, 4, 1, 0; 1998 UX₁₈, 7, 2, 81; 1998 UA₁₉, 3, 1, 0; 1998 UR₁₉, 4, 1, 0; 1998 UX₁₉, 3, 1, 0; 1998 US₂₀, 8, 2, 12; 1998 UM₂₁, 6, 2, 43; 1998 UU₂₂, 4, 1, 0; 1998 UX₂₂, 8, 2, 12; 1998 UB₂₃, 16, 4, 11; 1998 UC₂₃, 4, 1, 0; 1998 UE₂₃, 8, 2, 11; 1998 UO₂₃, 4, 1, 0; 1998 UT₂₃, 4, 1, 0; 1998 UA₂₄, 7, 2, 561; 1998 UM₂₅, 3, 1, 0; 1998 UM₂₆, 3, 1, 0; 1998 UV₂₇, 6, 2, 58; 1998 UZ₂₇, 3, 1, 0; 1998 US₂₉, 3, 1, 0; 1998 UY₂₉, 8, 2, 5; 1998 UC₃₁, 8, 2, 12; 1998 UR₃₁, 8, 2, 3; 1998 US₃₁, 4, 1, 0; 1998 UT₃₁, 6, 2, 58; 1998 UV₃₂, 3, 1, 0; 1998 UZ₃₃, 3, 1, 0; 1998 UQ₃₄, 3, 1, 0; 1998 UF₃₅, 3, 1, 0; 1998 UH₄₀, 4, 1, 0; 1998 UO₄₀, 4, 1, 0; 1998 UC₄₁, 4, 1, 0; 1998 UA₄₂, 3, 1, 0; 1998 UF₄₂, 3, 1, 0; 1998 UL₄₂, 4, 1, 0; 1998 UH₄₃, 3, 1, 0; 1998 UJ₄₃, 4, 1, 0; 1998 US₄₇, 3, 1, 0; 1998 VA₄, 4, 1, 0; 1998 VK₄, 4, 1, 0; 1998 VW₄, 4, 1, 0; 1998 VF₁, 3, 1, 0; 1998 VU₃, 3, 1, 0; 1998 VF₅, 3, 1, 0; 1998 VM₅, 4, 1,

0; 1998 VU₅, 4, 1, 0; 1998 VZ₅, 4, 1, 0; 1998 VS₆, 4, 1, 0; 1998 VV₆, 4, 1, 0; 1998 VZ₆, 3, 1, 0; 1998 VM₇, 4, 1, 0; 1998 VV₇, 3, 1, 0; 1998 VW₈, 3, 1, 0; 1998 VH₉, 3, 1, 0; 1998 VQ₉, 3, 1, 0; 1998 VT₉, 3, 1, 0; 1998 VH₁₀, 6, 2, 60; 1998 VX₁₀, 3, 1, 0; 1998 VC₁₁, 8, 2, 8; 1998 VH₁₁, 3, 1, 0; 1998 VQ₁₁, 6, 2, 36; 1998 VS₁₁, 3, 1, 0; 1998 VW₁₁, 8, 2, 8; 1998 VT₁₂, 6, 2, 78; 1998 VD₁₄, 4, 1, 0; 1998 VV₁₄, 4, 1, 0; 1998 VA₁₅, 12, 3, 10; 1998 VO₁₅, 3, 1, 0; 1998 VP₁₅, 4, 1, 0; 1998 VT₁₆, 6, 2, 38; 1998 VD₁₇, 4, 1, 0; 1998 VY₁₇, 3, 1, 0; 1998 VF₁₈, 3, 1, 0; 1998 VM₁₈, 4, 1, 0; 1998 VR₁₈, 3, 1, 0; 1998 VX₁₈, 4, 1, 0; 1998 VB₁₉, 3, 1, 0; 1998 VB₂₁, 9, 3, 59; 1998 VM₂₂, 3, 1, 0; 1998 VU₂₂, 3, 1, 0; 1998 VV₂₂, 3, 1, 0; 1998 VC₂₅, 4, 1, 0; 1998 VM₂₅, 3, 1, 0; 1998 VQ₂₅, 7, 2, 73; 1998 VS₂₆, 3, 1, 0; 1998 VX₂₆, 8, 2, 12; 1998 VR₂₇, 6, 2, 5; 1998 VT₂₇, 3, 1, 0; 1998 VU₂₈, 3, 1, 0; 1998 VO₂₉, 4, 1, 0; 1998 VM₃₀, 8, 1, 0; 1998 VW₃₀, 4, 1, 0; 1998 VZ₃₀, 4, 1, 0; 1998 VH₃₁, 4, 1, 0; 1998 VQ₃₁, 4, 1, 0; 1998 VN₃₂, 4, 1, 0; 1998 VS₃₂, 4, 1, 0; 1998 VY₃₂, 4, 1, 0; 1998 VE₃₃, 4, 1, 0; 1998 VY₃₃, 4, 1, 0; 1998 VS₃₄, 8, 2, 2; 1998 VV₃₄, 3, 1, 0; 1998 VX₃₄, 4, 1, 0; 1998 VE₃₇, 4, 1, 0; 1998 VY₃₇, 6, 2, 37; 1998 VB₃₈, 3, 1, 0; 1998 VE₃₈, 6, 2, 13; 1998 VT₃₈, 6, 2, 81; 1998 VU₃₈, 6, 1, 0; 1998 VC₄₄, 8, 2, 5; 1998 VD₄₄, 4, 1, 0; 1998 VH₄₄, 3, 1, 0; 1998 VE₄₅, 3, 1, 0; 1998 VZ₄₅, 9, 3, 69; 1998 VH₄₆, 3, 1, 0; 1998 VJ₄₆, 3, 1, 0; 1998 WD₁, 7, 2, 61; 1998 WM₁, 8, 2, 8; 1998 WN₁, 8, 2, 26; 1998 WQ₁, 4, 1, 0; 1998 WU₁, 4, 1, 0; 1998 WG₂, 4, 1, 0; 1998 WJ₂, 4, 1, 0; 1998 WE₃, 4, 1, 0; 1998 WK₃, 12, 3, 10; 1998 WK₃, 12, 3, 10; 1998 WP₃, 20, 5, 11; 1998 WH₄, 3, 1, 0; 1998 WD₅, 3, 1, 0; 1998 WL₅, 4, 1, 0; 1998 WO₅, 4, 1, 0; 1998 WW₅, 4, 1, 0; 1998 WC₆, 4, 1, 0; 1998 WK₆, 8, 2, 12; 1998 WN₆, 4, 1, 0; 1998 WO₆, 4, 1, 0; 1998 WW₆, 4, 1, 0; 1998 WY₆, 3, 1, 0; 1998 WB₇, 3, 1, 0; 1998 WN₇, 8, 2, 23; 1998 WD₈, 8, 2, 3; 1998 WA₉, 4, 1, 0; 1998 WD₉, 8, 2, 4; 1998 WJ₉, 4, 1, 0; 1998 WL₉, 8, 1, 0; 1998 WN₉, 8, 2, 3; 1998 WZ₉, 3, 1, 0; 1998 WL₁₀, 8, 2, 8; 1998 WV₁₀, 4, 1, 0; 1998 WW₁₀, 4, 1, 0; 1998 WY₁₀, 3, 1, 0; 1998 WY₁₀, 3, 1, 0; 1998 WD₁₂, 8, 2, 12; 1998 WE₁₂, 7, 2, 80; 1998 WF₁₂, 8, 2, 10; 1998 WK₁₂, 3, 1, 0; 1998 WX₁₂, 4, 1, 0; 1998 WG₁₃, 6, 2, 42; 1998 WY₁₃, 4, 1, 0; 1998 WH₁₄, 8, 2, 8; 1998 WP₁₅, 4, 1, 0; 1998 WR₁₅, 3, 1, 0; 1998 WX₁₅, 3, 1, 0; 1998 WZ₁₆, 4, 1, 0; 1998 WA₁₇, 4, 1, 0; 1998 WJ₁₈, 4, 1, 0; 1998 WR₁₈, 8, 2, 6; 1998 WY₁₈, 4, 1, 0; 1998 WA₂₀, 4, 1, 0; 1998 WD₂₀, 4, 1, 0; 1998 WK₂₀, 9, 3, 58; 1998 WL₂₀, 3, 1, 0; 1998 WW₂₀, 4, 1, 0; 1998 WT₂₀, 8, 2, 4; 1998 WZ₂₁, 4, 1, 0; 1998 WB₂₂, 7, 2, 81; 1998 WG₂₃, 8, 2, 16; 1998 WP₂₃, 3, 1, 0; 1998 WQ₂₈, 3, 1, 0; 1998 WY₃₀, 4, 1, 0; 1998 WZ₃₀, 4, 1, 0; 1998 WE₃₁, 3, 1, 0; 1998 WK₃₃, 3, 1, 0; 1998 WL₃₃, 3, 1, 0; 1998 XY₃, 3, 1, 0; 1998 XH₁, 4, 1, 0; 1998 XU₂, 4, 1, 0; 1998 XA₃, 8, 2, 12; 1998 XR₃, 4, 1, 0; 1998 XS₃, 4, 1, 0; 1998 XU₃, 4, 1, 0; 1998 XW₃, 4, 1, 0; 1998 XA₄, 8, 2, 4; 1998 XR₄, 4, 1, 0; 1998 XS₄, 4, 1, 0; 1998 XB₅, 4, 1, 0; 1998 XJ₉, 8, 2, 2; 1998 XK₉, 4, 1, 0; 1998 XQ₉, 3, 1, 0; 1998 XR₉, 4, 1, 0; 1998 XO₁₁, 12, 3, 10; 1998 XQ₁₂, 3, 1, 0; 1998 XV₁₂, 4, 1, 0; 1998 XU₁₆, 8, 2, 2; 1998 XE₁₈, 4, 1, 0; 1998 XN₂₁, 8, 2, 11; 1998 XY₂₁, 4, 1, 0; 1998 XF₂₃, 8, 2, 7; 1998 XJ₂₆, 3, 1, 0; 1998 XO₂₈, 4, 1, 0; 1998 XM₂₉, 4, 1, 0; 1998 XN₃₀, 3, 1, 0; 1998 XQ₃₀, 3, 1, 0; 1998 XH₄₅, 4, 1, 0; 1998 XZ₄₉, 3, 1, 0; 1998 XR₅₁, 4, 1, 0; 1998 XW₅₂, 3, 1, 0; 1998 XX₅₂, 8, 2, 12; 1998 XN₅₇, 8, 2, 12; 1998 XT₆₂, 4, 1, 0; 1998 XW₆₂, 8, 2, 4; 1998 XK₆₃, 4, 1, 0; 1998 XR₇₄, 4, 1, 0; 1998 XM₇₇, 8, 2, 12; 1998 XQ₇₇, 4, 1, 0; 1998 XL₇₉, 3, 1, 0; 1998 XN₇₉, 3, 1, 0; 1998 XE₈₀, 8, 2, 3; 1998 XM₈₀, 3, 1, 0; 1998 XZ₈₁, 15, 4, 87; 1998 XW₈₂, 4, 1, 0; 1998 XQ₈₃, 4, 1, 0; 1998 XH₈₇, 4, 1, 0; 1998 XF₉₃, 4, 1, 0; 1998 XV₉₅, 12, 3, 10; 1998 XC₉₆, 4, 1, 0; 1998 YC₁, 4, 1, 0; 1998 YH₁, 8, 2, 3; 1998 YK₁, 12, 3, 10; 1998 YL₁, 7, 2, 80; 1998 YD₂, 8, 2,

2000 APR. 18

M.P.C. 39739

0; 1999 RB₂₂, 6, 2, 25; 1999 RF₂₂, 3, 1, 0; 1999 RJ₂₂, 3, 1, 0; 1999 RL₂₂, 6, 2, 14; 1999 RS₂₂, 6, 2, 13; 1999 RC₂₃, 3, 1, 0; 1999 RN₂₃, 3, 1, 0; 1999 RP₂₃, 3, 1, 0; 1999 RR₂₃, 3, 1, 0; 1999 RT₂₃, 3, 1, 0; 1999 RW₂₃, 3, 1, 0; 1999 RC₂₄, 3, 1, 0; 1999 RK₂₄, 3, 1, 0; 1999 RP₂₄, 3, 1, 0; 1999 RS₂₄, 3, 1, 0; 1999 RZ₂₄, 3, 1, 0; 1999 RB₂₅, 3, 1, 0; 1999 RC₂₅, 3, 1, 0; 1999 RG₂₅, 6, 2, 13; 1999 RK₂₅, 6, 2, 6; 1999 RL₂₅, 9, 3, 44; 1999 RU₂₅, 3, 1, 0; 1999 RV₂₅, 3, 1, 0; 1999 RC₂₆, 3, 1, 0; 1999 RG₂₆, 3, 1, 0; 1999 RU₂₆, 3, 1, 0; 1999 RT₂₇, 3, 1, 0; 1999 RP₂₇, 3, 1, 0; 1999 RS₂₇, 3, 29; 1999 RX₂₇, 3, 1, 0; 1999 RD₂₈, 3, 1, 0; 1999 RE₂₈, 6, 2, 14; 1999 RT₂₈, 3, 1, 0; 1999 RU₂₉, 2, 1, 0; 1999 RW₂₉, 3, 1, 0; 1999 RY₃₀, 3, 1, 0; 1999 RZ₃₀, 6, 2, 12; 1999 RA₃₁, 3, 1, 0; 1999 RB₃₁, 6, 2, 8; 1999 RK₃₁, 3, 1, 0; 1999 RM₃₁, 3, 1, 0; 1999 RD₃₂, 3, 1, 0; 1999 RF₃₂, 3, 1, 0; 1999 RH₃₂, 3, 1, 0; 1999 RM₃₂, 3, 1, 0; 1999 RQ₃₂, 3, 1, 0; 1999 RW₃₂, 3, 1, 0; 1999 RA₃₃, 9, 3, 27; 1999 RL₃₃, 3, 1, 0; 1999 RQ₃₃, 3, 1, 0; 1999 RW₃₃, 3, 1, 0; 1999 RF₃₄, 3, 1, 0; 1999 RL₃₄, 3, 1, 0; 1999 RM₃₄, 3, 1, 0; 1999 RR₃₄, 3, 1, 0; 1999 RU₃₄, 6, 2, 15; 1999 RX₃₄, 6, 2, 7; 1999 RB₃₅, 3, 1, 0; 1999 RP₃₅, 3, 1, 0; 1999 RR₃₅, 3, 1, 0; 1999 RC₃₆, 3, 1, 0; 1999 RG₃₆, 3, 1, 0; 1999 RT₃₆, 3, 1, 0; 1999 RK₃₇, 3, 1, 0; 1999 RW₃₇, 6, 2, 30; 1999 RX₃₇, 3, 1, 0; 1999 RA₃₈, 3, 1, 0; 1999 RD₃₈, 6, 2, 28; 1999 RH₃₈, 6, 2, 12; 1999 RP₃₈, 3, 1, 0; 1999 RX₃₈, 3, 1, 0; 1999 RC₃₉, 9, 3, 30; 1999 RL₃₉, 9, 3, 7; 1999 RN₃₉, 6, 2, 33; 1999 RP₃₉, 3, 1, 0; 1999 RW₃₉, 3, 1, 0; 1999 RV₄₁, 6, 2, 27; 1999 RX₄₁, 3, 1, 0; 1999 RZ₄₁, 3, 1, 0; 1999 RC₄₂, 3, 1, 0; 1999 RK₄₂, 2, 1, 0; 1999 RL₄₂, 6, 2, 3; 1999 RN₄₂, 3, 1, 0; 1999 RO₄₂, 3, 1, 0; 1999 RF₄₂, 3, 1, 0; 1999 RQ₄₂, 9, 3, 21; 1999 RH₄₂, 3, 1, 0; 1999 RW₄₂, 3, 1, 0; 1999 RC₄₃, 3, 1, 0; 1999 RD₄₃, 6, 2, 5; 1999 RU₄₃, 3, 1, 0; 1999 RV₄₃, 3, 1, 0; 1999 RW₄₃, 9, 3, 16; 1999 RZ₄₃, 9, 3, 28; 1999 RA₄₄, 6, 2, 6; 1999 RB₄₄, 8, 3, 25; 1999 RC₄₄, 3, 1, 0; 1999 RD₄₄, 3, 1, 0; 1999 RE₄₄, 3, 1, 0; 1999 RG₄₄, 3, 1, 0; 1999 RL₄₄, 3, 1, 0; 1999 RN₄₄, 3, 1, 0; 1999 RT₄₄, 3, 1, 0; 1999 RB₄₅, 6, 2, 20; 1999 RE₄₆, 3, 1, 0; 1999 RV₄₆, 3, 1, 0; 1999 RC₄₇, 3, 1, 0; 1999 RD₄₇, 6, 2, 26; 1999 RM₅₄, 3, 1, 0; 1999 RS₅₆, 6, 2, 22; 1999 RO₅₇, 3, 1, 0; 1999 RG₆₃, 2, 1, 0; 1999 RV₆₃, 3, 1, 0; 1999 RL₆₄, 3, 1, 0; 1999 RM₇₃, 3, 1, 0; 1999 RQ₇₅, 3, 1, 0; 1999 RM₇₆, 3, 1, 0; 1999 RN₈₁, 3, 1, 0; 1999 RT₈₁, 6, 2, 14; 1999 RV₈₁, 3, 1, 0; 1999 RF₈₂, 3, 1, 0; 1999 RP₈₂, 3, 1, 0; 1999 RH₈₃, 3, 1, 0; 1999 RJ₈₃, 3, 1, 0; 1999 RS₈₄, 3, 1, 0; 1999 RV₈₅, 3, 1, 0; 1999 RA₈₇, 3, 1, 0; 1999 RM₈₇, 3, 1, 0; 1999 RT₈₇, 3, 1, 0; 1999 RX₈₇, 3, 1, 0; 1999 RG₈₈, 3, 1, 0; 1999 RR₈₈, 6, 2, 14; 1999 RT₈₈, 3, 1, 0; 1999 RW₈₈, 6, 2, 14; 1999 RK₈₉, 3, 1, 0; 1999 RP₈₉, 3, 1, 0; 1999 RQ₈₉, 3, 1, 0; 1999 RS₈₉, 6, 2, 4; 1999 RF₉₀, 3, 1, 0; 1999 RG₉₀, 6, 2, 24; 1999 RR₉₀, 6, 2, 25; 1999 RU₉₀, 3, 1, 0; 1999 RY₉₀, 9, 3, 14; 1999 RO₉₁, 6, 2, 26; 1999 RP₉₁, 6, 2, 28; 1999 RR₉₁, 3, 1, 0; 1999 RT₉₁, 3, 1, 0; 1999 RZ₉₁, 3, 1, 0; 1999 RB₉₂, 3, 1, 0; 1999 RH₉₂, 3, 1, 0; 1999 RP₉₂, 6, 2, 28; 1999 RQ₉₂, 6, 2, 14; 1999 RH₉₃, 3, 1, 0; 1999 RJ₉₃, 3, 1, 0; 1999 RN₉₃, 3, 1, 0; 1999 RD₉₄, 3, 1, 0; 1999 RF₉₄, 9, 3, 51; 1999 RO₉₄, 6, 2, 29; 1999 RP₉₄, 6, 2, 29; 1999 RX₉₄, 3, 1, 0; 1999 RF₉₅, 3, 1, 0; 1999 RH₉₅, 3, 1, 0; 1999 RO₉₅, 3, 1, 0; 1999 RG₉₅, 9, 3, 29; 1999 RS₉₅, 6, 2, 5; 1999 RG₉₅, 3, 1, 0; 1999 RZ₉₅, 3, 1, 0; 1999 RL₉₆, 9, 3, 29; 1999 RM₉₆, 6, 2, 29; 1999 RV₉₆, 3, 1, 0; 1999 RH₉₈, 9, 3, 29; 1999 RQ₉₈, 6, 2, 10; 1999 RW₉₈, 9, 3, 32; 1999 RX₉₈, 6, 2, 9; 1999 RB₉₉, 6, 2, 9; 1999 RM₁₀₃, 3, 1, 0; 1999 RS₁₀₃, 6, 2, 30; 1999 RX₁₀₃, 3, 1, 0; 1999 RK₁₀₄, 6, 2, 48; 1999 RX₁₀₄, 3, 1, 0; 1999 RA₁₀₅, 3, 1, 0; 1999 RF₁₀₅, 3, 1, 0; 1999 RH₁₀₅, 6, 2, 15; 1999 RJ₁₀₅, 3, 1, 0; 1999 RL₁₀₅, 6, 2, 27; 1999 RN₁₀₅, 9, 3, 30; 1999 RU₁₀₅, 3, 1, 0; 1999 RV₁₀₅, 3, 1, 0; 1999 RL₁₀₆, 6, 2, 13; 1999 RM₁₀₇, 6, 2, 15; 1999 RY₁₀₇, 3, 1, 0; 1999 RC₁₀₈, 3, 1, 0; 1999 RH₁₀₉, 3, 1, 0; 1999 RJ₁₀₉, 3, 1, 0; 1999 RN₁₀₉, 3, 1, 0; 1999 RO₁₀₉, 3, 1, 0; 1999 RQ₁₀₉, 3, 1, 0; 1999 RR₁₀₉, 6, 2, 1; 1999 RX₁₀₉, 6, 2, 2; 1999 RZ₁₀₉, 3, 1, 0; 1999 RF₁₁₀, 3, 1, 0; 1999 RH₁₁₀, 3, 1, 0; 1999 RK₁₁₀, 6, 2, 5; 1999 RM₁₁₀, 3, 1, 0; 1999 RQ₁₁₂, 3, 1, 0; 1999 RH₁₁₃, 3, 1, 0; 1999 RC₁₁₄, 3, 1, 0; 1999 RY₁₁₄, 3, 1, 0; 1999 RM₁₁₅, 2, 1, 0; 1999 RS₁₁₅, 3, 1, 0; 1999 RZ₁₁₅, 3, 1, 0; 1999 RB₁₁₆, 6, 2, 7; 1999 RH₁₂₃, 3, 1, 0; 1999 RQ₁₂₃, 6, 2, 15; 1999 RR₁₂₃, 3, 1, 0; 1999 RG₁₂₄, 3, 1, 0; 1999 RJ₁₂₄, 3, 1, 0; 1999 RL₁₂₄, 3, 1, 0; 1999 RO₁₂₄, 3, 1, 0; 1999 RF₁₂₅, 6, 2, 25; 1999 RV₁₂₅, 3, 1, 0; 1999 RF₁₂₆, 3, 1, 0; 1999 RX₁₂₇, 3, 1, 0; 1999 RT₁₂₈, 2, 1, 0; 1999 RC₁₂₉, 3, 1, 0; 1999 RS₁₂₉, 3, 1, 0; 1999 RE₁₃₀, 3, 1, 0; 1999 RL₁₃₀, 3, 1, 0; 1999 RF₁₃₁, 2, 1, 0; 1999 RC₁₃₁, 3, 1, 0; 1999 RC₁₃₂, 3, 1, 0; 1999 RB₁₃₃, 6, 2, 6; 1999 RH₁₃₃, 3, 1, 0; 1999 RV₁₃₃, 6, 2, 30; 1999 RD₁₃₅, 3, 1, 0; 1999 RE₁₃₅, 3, 1, 0; 1999 RM₁₃₅, 3, 1, 0; 1999 RW₁₃₅, 6, 2, 5; 1999 RP₁₃₆, 3, 1, 0; 1999 RA₁₃₇, 3, 1, 0; 1999 RT₁₃₇, 3, 1, 0; 1999 RX₁₃₇, 3, 1, 0; 1999 RX₁₃₈, 6, 2, 31; 1999 RZ₁₃₈, 3, 1, 0; 1999 RJ₁₄₂, 3, 1, 0; 1999 RV₁₄₂, 3, 1, 0; 1999 RH₁₄₃, 8, 3, 29; 1999 RK₁₄₃, 6, 2, 5; 1999 RM₁₄₃, 3, 1, 0; 1999 RW₁₄₃, 3, 1, 0; 1999 RG₁₄₅, 3, 1, 0; 1999 RH₁₄₅, 3, 1, 0; 1999 RQ₁₄₅, 3, 1, 0; 1999 RF₁₄₆, 3, 1, 0; 1999 RM₁₄₆, 3, 1, 0; 1999 RG₁₄₇, 3, 1, 0; 1999 RY₁₄₇, 6, 2, 30; 1999 RA₁₄₉, 3, 1, 0; 1999 RM₁₄₉, 6, 2, 15; 1999 RX₁₄₉, 3, 1, 0; 1999 RK₁₅₀, 6, 2, 3; 1999 RP₁₅₀, 6, 2, 5; 1999 RB₁₅₁, 3, 1, 0; 1999 RH₁₅₁, 6, 2, 39; 1999 RB₁₅₂, 6, 2, 32; 1999 RM₁₅₂, 9, 3, 25; 1999 RO₁₅₂, 3, 1, 0; 1999 RR₁₅₂, 3, 1, 0; 1999 RV₁₅₂, 6, 2, 28; 1999 RE₁₅₄, 6, 2, 28; 1999 RL₁₅₆, 6, 2, 10; 1999 RA₁₅₈, 3, 1, 0; 1999 RF₁₅₉, 6, 2, 22; 1999 RY₁₅₉, 3, 1, 0; 1999 RC₁₆₀, 3, 1, 0; 1999 RV₁₆₀, 3, 1, 0; 1999 RO₁₆₁, 3, 1, 0; 1999 RO₁₆₂, 3, 1, 0; 1999 RR₁₆₂, 3, 1, 0; 1999 RH₁₆₃, 3, 1, 0; 1999 RP₁₆₃, 3, 1, 0; 1999 RL₁₆₃, 3, 1, 0; 1999 RL₁₆₅, 3, 1, 0; 1999 RR₁₆₅, 3, 1, 0; 1999 RY₁₆₆, 3, 1, 0; 1999 RQ₁₆₇, 8, 3, 30; 1999 RX₁₆₇, 3, 1, 0; 1999 RZ₁₆₇, 3, 1, 0; 1999 RD₁₆₉, 3, 1, 0; 1999 RJ₁₇₁, 3, 1, 0; 1999 RS₁₇₁, 3, 1, 0; 1999 RG₁₇₂, 3, 1, 0; 1999 RK₁₇₂, 3, 1, 0; 1999 RO₁₇₂, 6, 2, 8; 1999 RR₁₇₃, 3, 1, 0; 1999 RV₁₇₃, 3, 1, 0; 1999 RU₁₇₄, 6, 2, 21; 1999 RX₁₇₆, 3, 1, 0; 1999 RJ₁₇₇, 3, 1, 0; 1999 RY₁₇₇, 6, 2, 44; 1999 RK₁₇₈, 3, 1, 0; 1999 RM₁₇₈, 3, 1, 0; 1999 RU₁₇₈, 3, 1, 0; 1999 RB₁₇₉, 3, 1, 0; 1999 RF₁₇₉, 3, 1, 0; 1999 RW₁₇₉, 3, 1, 0; 1999 RK₁₈₀, 3, 1, 0; 1999 RY₁₈₀, 6, 2, 25; 1999 RC₁₈₁, 3, 1, 0; 1999 RS₁₈₂, 6, 2, 14; 1999 RX₁₈₂, 6, 2, 2; 1999 RD₁₈₃, 3, 1, 0; 1999 RX₁₈₄, 6, 2, 24; 1999 RN₁₈₇, 3, 1, 0; 1999 RV₁₈₈, 3, 1, 0;

1999 RO₁₉₀, 9, 3, 31; 1999 RN₁₉₁, 3, 1, 0; 1999 RA₁₉₂, 3, 1, 0; 1999 RF₁₉₂, 3, 1, 0; 1999 RC₁₉₃, 3, 1, 0; 1999 RD₁₉₃, 3, 1, 0; 1999 RQ₁₉₃, 12, 4, 28; 1999 RR₁₉₃, 3, 1, 0; 1999 RS₁₉₃, 3, 1, 0; 1999 RV₁₉₃, 9, 3, 29; 1999 RB₁₉₄, 3, 1, 0; 1999 RH₁₉₄, 3, 1, 0; 1999 RK₁₉₄, 9, 3, 29; 1999 RM₁₉₄, 6, 2, 13; 1999 RJ₁₉₄, 3, 1, 0; 1999 RB₁₉₅, 9, 3, 29; 1999 RC₁₉₅, 3, 1, 0; 1999 RD₁₉₅, 3, 1, 0; 1999 RL₁₉₅, 3, 1, 0; 1999 RV₁₉₅, 3, 1, 0; 1999 RF₁₉₆, 6, 2, 29; 1999 RK₁₉₆, 6, 2, 13; 1999 RL₁₉₆, 6, 2, 13; 1999 RS₁₉₆, 3, 1, 0; 1999 RT₁₉₆, 6, 2, 10; 1999 RU₁₉₆, 6, 2, 10; 1999 RX₁₉₆, 9, 3, 28; 1999 RB₁₉₇, 3, 1, 0; 1999 RC₁₉₇, 3, 1, 0; 1999 RH₁₉₇, 3, 1, 0; 1999 RL₁₉₇, 6, 2, 42; 1999 RQ₁₉₇, 6, 2, 10; 1999 RU₁₉₇, 6, 2, 13; 1999 RZ₁₉₇, 3, 1, 0; 1999 RC₁₉₈, 3, 1, 0; 1999 RP₁₉₈, 6, 2, 27; 1999 RG₁₉₉, 3, 1, 0; 1999 RM₁₉₉, 3, 1, 0; 1999 RN₁₉₉, 3, 1, 0; 1999 RO₁₉₉, 6, 2, 1; 1999 RP₁₉₉, 3, 1, 0; 1999 RY₂₀₀, 3, 1, 0; 1999 RB₂₀₁, 6, 2, 37; 1999 RR₂₀₁, 3, 1, 0; 1999 RS₂₀₁, 3, 1, 0; 1999 RW₂₀₁, 3, 1, 0; 1999 RF₂₀₂, 2, 1, 0; 1999 RJ₂₀₂, 3, 1, 0; 1999 RQ₂₀₂, 2, 1, 0; 1999 RS₂₀₂, 6, 2, 1; 1999 RA₂₀₄, 3, 1, 0; 1999 RF₂₀₄, 6, 2, 37; 1999 RQ₂₀₄, 3, 1, 0; 1999 RY₂₀₄, 3, 1, 0; 1999 RK₂₀₅, 2, 1, 0; 1999 RP₂₀₅, 3, 1, 0; 1999 RR₂₀₅, 6, 2, 1; 1999 RW₂₀₅, 6, 2, 1; 1999 RZ₂₀₅, 3, 1, 0; 1999 RA₂₀₆, 3, 1, 0; 1999 RB₂₀₆, 5, 2, 1; 1999 RL₂₀₆, 3, 1, 0; 1999 RN₂₀₆, 6, 2, 1; 1999 RQ₂₀₆, 3, 1, 0; 1999 RR₂₀₆, 3, 1, 0; 1999 RT₂₀₆, 6, 2, 1; 1999 RU₂₀₆, 6, 2, 1; 1999 RC₂₀₇, 3, 1, 0; 1999 RJ₂₀₇, 3, 1, 0; 1999 RK₂₀₇, 3, 1, 0; 1999 RX₂₀₇, 3, 1, 0; 1999 RY₂₀₇, 3, 1, 0; 1999 RA₂₀₈, 6, 2, 1; 1999 RH₂₀₈, 9, 3, 30; 1999 RW₂₀₈, 3, 1, 0; 1999 RB₂₀₉, 3, 1, 0; 1999 RC₂₀₉, 2, 1, 0; 1999 RM₂₀₉, 15, 5, 20; 1999 RQ₂₀₉, 6, 2, 9; 1999 RX₂₀₉, 6, 2, 22; 1999 RB₂₁₀, 3, 1, 0; 1999 RO₂₁₀, 6, 2, 15; 1999 RX₂₁₀, 3, 1, 0; 1999 RF₂₁₁, 3, 1, 0; 1999 RL₂₁₁, 6, 2, 29; 1999 RQ₂₁₁, 12, 4, 24; 1999 RU₂₁₁, 6, 2, 22; 1999 RV₂₁₁, 3, 1, 0; 1999 RA₂₁₂, 3, 1, 0; 1999 RC₂₁₂, 9, 3, 54; 1999 RO₂₁₂, 3, 1, 0; 1999 RA₂₁₃, 6, 2, 3; 1999 RP₂₁₃, 3, 1, 0; 1999 RH₂₁₄, 3, 1, 0; 1999 RJ₂₁₄, 3, 1, 0; 1999 SG₂, 6, 2, 12; 1999 SH₃, 1, 0; 1999 SL₆, 2, 31; 1999 SN₁, 3, 1, 0; 1999 SQ₁, 3, 1, 0; 1999 SU₁, 6, 2, 15; 1999 SZ₁, 6, 2, 29; 1999 SB₂, 3, 1, 0; 1999 SC₂, 3, 1, 0; 1999 SG₂, 3, 1, 0; 1999 SH₂, 3, 1, 0; 1999 SQ₂, 3, 1, 0; 1999 SR₂, 3, 1, 0; 1999 SS₂, 6, 2, 8; 1999 SE₃, 3, 1, 0; 1999 SF₃, 3, 1, 0; 1999 SZ₃, 3, 1, 0; 1999 SG₄, 6, 2, 12; 1999 SL₄, 3, 1, 0; 1999 SO₄, 6, 2, 15; 1999 SP₄, 9, 3, 27; 1999 SS₄, 9, 3, 27; 1999 SZ₄, 3, 1, 0; 1999 SF₅, 3, 1, 0; 1999 RS₅, 3, 1, 0; 1999 ST₅, 3, 1, 0; 1999 SD₆, 3, 1, 0; 1999 SF₆, 3, 1, 0; 1999 SG₆, 3, 1, 0; 1999 SH₆, 3, 1, 0; 1999 SK₆, 3, 1, 0; 1999 SL₆, 3, 1, 0; 1999 SO₆, 3, 1, 0; 1999 SS₆, 3, 1, 0; 1999 SZ₆, 3, 1, 0; 1999 SA₇, 3, 1, 0; 1999 SG₇, 6, 2, 63; 1999 SL₇, 3, 1, 0; 1999 SM₇, 3, 1, 0; 1999 SR₇, 6, 2, 12; 1999 ST₇, 3, 1, 0; 1999 SX₈, 3, 1, 0; 1999 ST₉, 9, 3, 19; 1999 SA₁₀, 3, 1, 0; 1999 SK₁₀, 4, 1, 0; 1999 SP₁₀, 3, 1, 0; 1999 SR₁₀, 3, 1, 0; 1999 ST₁₀, 3, 1, 0; 1999 SU₁₀, 3, 1, 0; 1999 SW₁₀, 6, 2, 5; 1999 SB₁₁, 6, 2, 28; 1999 SH₁₁, 6, 2, 17; 1999 SJ₁₁, 3, 1, 0; 1999 SL₁₁, 3, 1, 0; 1999 SO₁₁, 3, 1, 0; 1999 SP₁₁, 3, 1, 0; 1999 SQ₁₁, 6, 2, 28; 1999 SR₁₁, 3, 1, 0; 1999 SU₁₁, 3, 1, 0; 1999 SG₁₂, 3, 1, 0; 1999 TD₃, 1, 0; 1999 TE₆, 2, 12; 1999 TF₃, 3, 1, 0; 1999 TG₂, 2, 1, 0; 1999 TK₃, 3, 1, 0; 1999 TN₃, 3, 1, 0; 1999 TO₃, 3, 1, 0; 1999 TT₃, 3, 1, 0; 1999 TV₉, 9, 3, 31; 1999 TY₆, 6, 2, 31; 1999 TZ₃, 3, 1, 0; 1999 TA₁, 9, 3, 12; 1999 TB₁, 9, 3, 31; 1999 TD₁, 3, 1, 0; 1999 TE₁, 6, 2, 1; 1999 TF₁, 8, 3, 31; 1999 TG₁, 6, 2, 12; 1999 TH₁, 9, 3, 31; 1999 TL₁, 6, 2, 12; 1999 TO₁, 8, 3, 28; 1999 TP₁, 6, 2, 31; 1999 TQ₁, 6, 2, 28; 1999 TT₁, 6, 2, 28; 1999 TU₁, 3, 1, 0; 1999 TV₁, 6, 2, 11; 1999 TW₁, 6, 2, 29; 1999 TY₁, 6, 2, 16; 1999 TB₂, 3, 1, 0; 1999 TF₂, 6, 2, 19; 1999 TJ₂, 6, 2, 12; 1999 TZ₂, 3, 1, 0; 1999 TA₃, 3, 1, 0; 1999 TL₃, 3, 1, 0; 1999 TN₃, 2, 1, 0; 1999 TP₃, 3, 1, 0; 1999 TU₃, 3, 1, 0; 1999 TX₃, 6, 2, 12; 1999 TJ₄, 6, 2, 19; 1999 TL₄, 9, 3, 28; 1999 TM₄, 3, 1, 0; 1999 TT₄, 3, 1, 0; 1999 TU₄, 3, 1, 0; 1999 TW₄, 9, 3, 28; 1999 TX₄, 3, 1, 0; 1999 TC₅, 4, 1, 0; 1999 TJ₅, 3, 1, 0; 1999 TN₅, 8, 3, 18; 1999 TO₅, 3, 1, 0; 1999 TP₅, 3, 1, 0;

14; 1999 TG₂₅, 6, 2, 3; 1999 TH₂₅, 6, 2, 3; 1999 TM₂₅, 3, 1, 0; 1999 TN₂₅, 6, 2, 28; 1999 TO₂₅, 3, 1, 0; 1999 TT₂₅, 3, 1, 0; 1999 TW₂₅, 3, 1, 0; 1999 TY₂₅, 6, 2, 3; 1999 TB₂₆, 3, 1, 0; 1999 TE₂₆, 3, 1, 0; 1999 TG₂₆, 3, 1, 0; 1999 TT₂₆, 3, 1, 0; 1999 TV₂₆, 3, 1, 0; 1999 TW₂₆, 3, 1, 0; 1999 TX₂₆, 3, 1, 0; 1999 TE₂₇, 3, 1, 0; 1999 TK₂₇, 3, 1, 0; 1999 TQ₂₇, 5, 2, 17; 1999 TR₂₇, 3, 1, 0; 1999 TS₂₇, 3, 1, 0; 1999 TV₂₇, 6, 2, 6; 1999 TW₂₇, 6, 2, 55; 1999 TX₂₇, 6, 2, 3; 1999 TY₂₇, 3, 1, 0; 1999 TL₂₈, 3, 1, 0; 1999 TV₂₈, 3, 1, 0; 1999 TW₂₈, 6, 2, 29; 1999 TC₂₉, 3, 1, 0; 1999 TN₂₉, 3, 1, 0; 1999 TP₂₉, 3, 1, 0; 1999 TU₂₉, 3, 1, 0; 1999 TX₂₉, 3, 1, 0; 1999 TC₃₀, 3, 1, 0; 1999 TF₃₀, 3, 1, 0; 1999 TP₃₀, 3, 1, 0; 1999 TR₃₀, 3, 1, 0; 1999 TU₃₀, 3, 1, 0; 1999 TV₃₀, 3, 1, 0; 1999 TX₃₀, 3, 1, 0; 1999 TY₃₀, 3, 1, 0; 1999 TZ₃₀, 3, 1, 0; 1999 TA₃₁, 6, 2, 15; 1999 TB₃₁, 3, 1, 0; 1999 TC₃₁, 3, 1, 0; 1999 TE₃₁, 6, 2, 12; 1999 TG₃₁, 3, 1, 0; 1999 TJ₃₁, 3, 1, 0; 1999 TT₃₁, 3, 1, 0; 1999 TY₃₁, 3, 1, 0; 1999 TB₃₂, 12, 4, 31; 1999 TF₃₂, 3, 1, 0; 1999 TH₃₂, 6, 2, 3; 1999 TJ₃₂, 3, 1, 0; 1999 TM₃₂, 6, 2, 33; 1999 TN₃₂, 6, 2, 3; 1999 TO₃₂, 3, 1, 0; 1999 TW₃₂, 3, 1, 0; 1999 TD₃₃, 3, 1, 0; 1999 TE₃₃, 3, 1, 0; 1999 TG₃₃, 3, 1, 0; 1999 TO₃₃, 3, 1, 0; 1999 TP₃₃, 9, 3, 27; 1999 TQ₃₃, 3, 1, 0; 1999 TR₃₃, 3, 1, 0; 1999 TW₃₃, 3, 1, 0; 1999 TL₃₄, 3, 1, 0; 1999 TO₃₄, 6, 2, 10; 1999 TP₃₄, 3, 1, 0; 1999 TQ₃₄, 6, 2, 28; 1999 TU₃₄, 3, 1, 0; 1999 TW₃₄, 6, 2, 12; 1999 TZ₃₄, 6, 2, 13; 1999 TO₃₅, 6, 2, 10; 1999 TP₃₅, 3, 1, 0; 1999 TQ₃₅, 3, 1, 0; 1999 TS₃₅, 3, 1, 0; 1999 TX₃₅, 3, 1, 0; 1999 TD₃₆ *, 6, 2, 5; 1999 TE₃₆ *, 6, 2, 4; 1999 TF₃₆ *, 6, 2, 6; 1999 TG₃₆ *, 6, 2, 7; 1999 TH₃₆ *, 6, 2, 6; 1999 TJ₃₆ *, 6, 2, 6; 1999 TK₃₆ *, 6, 2, 1; 1999 TL₃₆ *, 6, 2, 1; 1999 TM₃₆ *, 6, 2, 1; 1999 TN₃₆ *, 6, 2, 1; 1999 TO₃₆ *, 6, 2, 7; 1999 TP₃₆ *, 6, 2, 7; 1999 TR₃₆ *, 6, 2, 7; 1999 TS₃₆ *, 6, 2, 5; 1999 TT₃₆ *, 6, 2, 3; 1999 TU₃₆ *, 6, 2, 3; 1999 TV₃₆ *, 12, 4, 17; 1999 TW₃₆ *, 6, 2, 4; 1999 TX₃₆ *, 6, 2, 1; 1999 TY₃₆ *, 6, 2, 1; 1999 TZ₃₆ *, 6, 2, 1; 1999 UA, 6, 2, 15; 1999 UD, 3, 1, 0; 1999 UE, 3, 1, 0; 1999 UF, 6, 2, 27; 1999 UG, 6, 2, 27; 1999 UK, 6, 2, 19; 1999 UU, 3, 1, 0; 1999 UV, 6, 2, 1; 1999 UA₁, 3, 1, 0; 1999 UD₁, 6, 2, 5; 1999 UG₁, 3, 1, 0; 1999 UJ₁, 6, 2, 17; 1999 UK₁, 3, 1, 0; 1999 UN₁, 3, 1, 0; 1999 UP₁, 3, 1, 0; 1999 UQ₁, 6, 2, 69; 1999 UR₁, 6, 2, 14; 1999 UV₁, 3, 1, 0; 1999 UC₂, 3, 1, 0; 1999 UG₂, 6, 2, 7; 1999 UH₂, 3, 1, 0; 1999 UP₂, 3, 1, 0; 1999 UQ₂, 6, 2, 13; 1999 UV₂, 6, 2, 18; 1999 UX₂, 3, 1, 0; 1999 UY₂, 9, 3, 27; 1999 UZ₂, 9, 3, 29; 1999 UE₃, 3, 1, 0; 1999 UL₃, 3, 1, 0; 1999 UP₃, 3, 1, 0; 1999 UT₃, 6, 2, 3; 1999 UU₃, 3, 1, 0; 1999 UA₄, 6, 2, 7; 1999 UC₄, 6, 2, 25; 1999 UE₄, 3, 1, 0; 1999 UF₄, 3, 1, 0; 1999 UJ₄, 3, 1, 0; 1999 UN₄, 6, 2, 8; 1999 UO₄, 3, 1, 0; 1999 UQ₄, 3, 1, 0; 1999 UR₄, 6, 2, 1; 1999 UU₄, 3, 1, 0; 1999 UV₄, 9, 3, 31; 1999 UA₅, 3, 1, 0; 1999 UD₅, 3, 1, 0; 1999 UQ₅, 3, 1, 0; 1999 UW₅, 3, 1, 0; 1999 UY₅, 3, 1, 0; 1999 UA₆, 3, 1, 0; 1999 UD₆, 12, 4, 91; 1999 UJ₆, 3, 1, 0; 1999 UL₆, 3, 1, 0; 1999 UN₆, 3, 1, 0; 1999 US₇, 3, 1, 0; 1999 UY₇, 3, 1, 0; 1999 UB₈, 3, 1, 0; 1999 UO₈, 3, 1, 0; 1999 UP₈, 3, 1, 0; 1999 UR₈, 3, 1, 0; 1999 US₈, 3, 1, 0; 1999 UV₈, 3, 1, 0; 1999 UC₉, 3, 1, 0; 1999 UG₉, 3, 1, 0; 1999 UJ₉, 6, 2, 24; 1999 UG₁₁, 3, 1, 0; 1999 UM₁₁, 3, 1, 0; 1999 UN₁₁, 3, 1, 0; 1999 UQ₁₁, 6, 2, 12; 1999 US₁₂, 3, 1, 0; 1999 UV₁₂, 3, 1, 0; 1999 UB₁₃, 6, 2, 1; 1999 UE₁₃, 3, 1, 0; 1999 UF₁₃, 3, 1, 0; 1999 UH₁₃, 3, 1, 0; 1999 UO₁₃, 3, 1, 0; 1999 UI₁₃, 3, 1, 0; 1999 UN₁₄, 3, 1, 0; 1999 UX₁₄, 3, 1, 0; 1999 UA₁₅, 3, 1, 0; 1999 UB₁₅, 3, 1, 0; 1999 UC₁₅, 3, 1, 0; 1999 UD₁₅, 3, 1, 0; 1999 UE₁₅, 3, 1, 0; 1999 UK₁₅, 3, 1, 0; 1999 UL₁₅, 3, 1, 0; 1999 UQ₁₅, 3, 1, 0; 1999 UV₁₅, 3, 1, 0; 1999 UX₁₅, 3, 1, 0; 1999 UY₁₅, 3, 1, 0; 1999 UA₁₆, 3, 1, 0; 1999 UD₁₆, 3, 1, 0; 1999 UF₁₆, 3, 1, 0; 1999 UG₁₆, 3, 1, 0; 1999 UH₁₆, 3, 1, 0; 1999 UK₁₆, 3, 1, 0; 1999 UO₁₆, 3, 1, 0; 1999 UP₁₆, 3, 1, 0; 1999 UQ₁₆, 3, 1, 0; 1999 UR₁₆, 3, 1, 0; 1999 UT₁₆, 3, 1, 0; 1999 UU₁₆, 3, 1, 0; 1999 UV₁₆, 3, 1, 0; 1999 UD₁₇, 3, 1, 0; 1999 UF₁₇, 3, 1, 0; 1999 UH₁₈, 6, 2, 28; 1999 UF₂₃, 3, 1, 0; 1999 UJ₂₃, 3, 1, 0; 1999 UV₂₃, 3, 1, 0; 1999 UR₂₃, 3, 1, 0; 1999 US₂₃, 3, 1, 0; 1999 UV₂₃, 3, 1, 0; 1999 UW₂₃, 3, 1, 0; 1999 UB₂₄, 3, 1, 0; 1999 UE₂₄, 3, 1, 0; 1999 UJ₂₄, 3, 1, 0; 1999 UK₂₄, 6, 2, 15; 1999 UL₂₄, 6, 2, 15; 1999 UN₂₄, 3, 1, 0; 1999 UQ₂₄, 3, 1, 0; 1999 UU₂₄, 3, 1, 0; 1999 UW₂₄, 3, 1, 0; 1999 UC₂₅, 3, 1, 0; 1999 UG₂₅, 3, 1, 0; 1999 US₂₅, 3, 1, 0; 1999 UU₂₅, 6, 2, 19; 1999 UY₂₅, 3, 1, 0; 1999 UZ₂₅, 9, 3, 19; 1999 UG₂₆, 3, 1, 0; 1999 UK₂₆, 6, 2, 3; 1999 UL₂₆, 6, 2, 16; 1999 UM₂₆, 9, 3, 31; 1999 UO₂₆, 3, 1, 0; 1999 UQ₂₆, 3, 1, 0; 1999 US₂₆, 3, 1, 0; 1999 UT₂₆, 3, 1, 0; 1999 UX₂₆, 3, 1, 0; 1999 UA₂₇, 3, 1, 0; 1999 UD₂₈, 6, 2, 14; 1999 UV₂₈, 3, 1, 0; 1999 UQ₂₉, 6, 2, 25; 1999 UD₃₁, 6, 2, 27; 1999 UC₃₂, 3, 1, 0; 1999 UG₃₅, 3, 1, 0; 1999 UN₃₅, 3, 1, 0; 1999 UO₃₅, 6, 2, 51; 1999 UH₃₈ *, 6, 2, 2; 1999 UJ₃₈ *, 6, 2, 2; 1999 UK₃₈ *, 6, 2, 7; 1999 UL₃₈ *, 6, 2, 3; 1999 UM₃₈ *, 6, 2, 3; 1999 UN₃₈ *, 6, 2, 3; 1999 UO₃₈ *, 6, 2, 3; 1999 UP₃₈ *, 6, 2, 3; 1999 UQ₃₈ *, 6, 2, 3; 1999 UR₃₈ *, 6, 2, 3; 1999 US₃₈ *, 6, 2, 3; 1999 UT₃₈ *, 6, 2, 3; 1999 UV₃₈ *, 6, 2, 3; 1999 UW₃₈ *, 6, 2, 3; 1999 UX₃₈ *, 6, 2, 3; 1999 UY₃₈ *, 6, 2, 3; 1999 UZ₃₈ *, 6, 2, 3; 1999 UA₃₉ *, 6, 2, 3; 1999 UB₃₉ *, 6, 2, 3; 1999 UC₃₉ *, 6, 2, 7; 1999 UD₃₉ *, 6, 2, 3; 1999 UE₃₉ *, 6, 2, 3; 1999 UF₃₉ *, 9, 3, 22; 1999 UG₃₉ *, 6, 2, 2; 1999 VA, 3, 1, 0; 1999 VG, 3, 1, 0; 1999 VL, 3, 1, 0; 1999 VR, 3, 1, 0; 1999 VS, 3, 1, 0; 1999 VY, 3, 1, 0; 1999 VZ, 3, 1, 0; 1999 VB₁, 3, 1, 0; 1999 VE₁, 3, 1, 0; 1999 VG₁, 3, 1, 0; 1999 VK₁, 3, 1, 0; 1999 VS₁, 3, 1, 0; 1999 VT₁, 3, 1, 0; 1999 VV₁, 3, 1, 0; 1999 VA₂, 3, 1, 0; 1999 VC₂, 3, 1, 0; 1999 VG₂, 6, 2, 5; 1999 VH₂, 9, 3, 24; 1999 VO₂, 3, 1, 0; 1999 VV₂, 3, 1, 0; 1999 VG₃, 3, 1, 0; 1999 VA₄, 6, 2, 31; 1999 VD₄, 3, 1, 0; 1999 VK₄, 9, 3, 33; 1999 VO₄, 3, 1, 0; 1999 VP₄, 3, 1, 0; 1999 VQ₄, 3, 1, 0; 1999 VR₄, 6, 2, 7; 1999 VU₄, 3, 1, 0; 1999 VV₄, 3, 1, 0; 1999 VZ₄, 3, 1, 0; 1999 VA₅, 6, 2, 24; 1999 VD₅, 3, 1, 0; 1999 VH₅, 6, 2, 7; 1999 VM₅, 6, 2, 23; 1999 VU₅, 3, 1, 0; 1999 VV₅, 3, 1, 0; 1999 VU₆, 3, 1, 0; 1999 VY₆, 6, 2, 1; 1999 VZ₆, 3, 1, 0; 1999 VD₇, 3, 1, 0; 1999 VJ₇, 6, 2, 7; 1999 VP₇, 3, 1, 0; 1999 VR₇, 6, 2, 14; 1999 VS₇, 3, 1, 0; 1999 VT₇, 3, 1, 0; 1999 VW₇, 3, 1, 0; 1999 VH₈, 4, 1, 0; 1999 VJ₈, 3, 1, 0; 1999 VM₈, 3, 1, 0; 1999 VX₈, 6, 2, 9; 1999 VY₈, 3, 1, 0; 1999 VZ₈, 3, 1, 0; 1999 VA₉, 3, 1, 0; 1999 VD₉, 3, 1, 0; 1999 VE₉, 7, 2, 80; 1999 VF₉, 9, 3, 91; 1999 VG₉, 3, 1, 0; 1999 VH₉, 9, 3, 91; 1999 VK₉, 6, 2, 14; 1999 VM₉, 3, 1, 0;

1999 VS₉, 6, 2, 17; 1999 VT₉, 6, 2, 17; 1999 VV₉, 6, 2, 18; 1999 VX₉, 3, 1, 0; 1999 VY₉, 3, 1, 0; 1999 VZ₉, 6, 2, 15; 1999 VB₁₀, 6, 2, 9; 1999 VE₁₀, 3, 1, 0; 1999 VA₁₁, 6, 2, 15; 1999 VB₁₁, 3, 1, 0; 1999 VG₁₁, 3, 1, 0; 1999 VS₁₁, 3, 1, 0; 1999 VW₁₁, 6, 2, 15; 1999 VX₁₁, 6, 2, 15; 1999 VY₁₁, 3, 1, 0; 1999 VZ₁₁, 9, 3, 28; 1999 VA₁₂, 9, 3, 28; 1999 VB₁₂, 6, 2, 15; 1999 VE₁₂, 6, 2, 24; 1999 VM₁₂, 3, 1, 0; 1999 VN₁₂, 3, 1, 0; 1999 VP₁₂, 3, 1, 0; 1999 VQ₁₂, 6, 2, 21; 1999 VR₁₂, 3, 1, 0; 1999 VS₁₂, 9, 3, 85; 1999 VT₁₂, 6, 2, 64; 1999 VU₁₂, 6, 2, 64; 1999 VV₁₂, 3, 1, 0; 1999 VW₁₂, 3, 1, 0; 1999 VX₁₂, 3, 1, 0; 1999 VJ₁₃, 3, 1, 0; 1999 VL₁₃, 6, 2, 5; 1999 VM₁₃, 6, 2, 37; 1999 VU₁₃, 3, 1, 0; 1999 VQ₁₅, 3, 1, 0; 1999 VJ₁₆, 3, 1, 0; 1999 VW₁₆, 3, 1, 0; 1999 VG₁₈, 3, 1, 0; 1999 VL₁₈, 3, 1, 0; 1999 VO₁₈, 3, 1, 0; 1999 VA₁₉, 3, 1, 0; 1999 VE₁₉, 6, 2, 55; 1999 VF₁₉, 3, 1, 0; 1999 VL₁₉, 3, 1, 0; 1999 VR₁₉, 6, 2, 9; 1999 VS₁₉, 3, 1, 0; 1999 VT₁₉, 3, 1, 0; 1999 VW₁₉, 3, 1, 0; 1999 VZ₁₉, 3, 1, 0; 1999 VH₂₀, 12, 4, 24; 1999 VJ₂₀, 6, 2, 13; 1999 VK₂₀, 6, 2, 35; 1999 VL₂₀, 6, 2, 21; 1999 VM₂₀, 3, 1, 0; 1999 VO₂₀, 6, 2, 20; 1999 VP₂₀, 3, 1, 0; 1999 VQ₂₀, 9, 3, 37; 1999 VR₂₀, 6, 2, 30; 1999 VW₂₀, 15, 5, 54; 1999 VX₂₀, 3, 1, 0; 1999 VA₂₁, 3, 1, 0; 1999 VG₂₁, 6, 2, 3; 1999 VH₂₁, 6, 2, 19; 1999 VK₂₁, 4, 1, 0; 1999 VS₂₁, 3, 1, 0; 1999 VH₂₂, 9, 3, 54; 1999 VL₂₂, 9, 3, 38; 1999 VM₂₂, 3, 1, 0; 1999 VO₂₂, 6, 2, 28; 1999 VP₂₂, 3, 1, 0; 1999 VQ₂₂, 3, 1, 0; 1999 VW₂₂, 3, 1, 0; 1999 VZ₂₂, 3, 1, 0; 1999 VE₂₃, 9, 2, 7; 1999 VL₂₃, 3, 1, 0; 1999 VO₂₃, 3, 1, 0; 1999 VP₂₃, 3, 1, 0; 1999 VR₂₃, 3, 1, 0; 1999 VS₂₃, 3, 1, 0; 1999 VT₂₃, 6, 2, 7; 1999 VU₂₃, 9, 3, 7; 1999 VV₂₃, 6, 2, 14; 1999 VW₂₃, 9, 3, 18; 1999 VX₂₃, 3, 1, 0; 1999 VA₂₄, 3, 1, 0; 1999 VC₂₄, 3, 1, 0; 1999 VH₂₄, 3, 1, 0; 1999 VK₂₄, 3, 1, 0; 1999 VN₂₄, 3, 1, 0; 1999 VO₂₄, 3, 1, 0; 1999 VP₂₄, 9, 3, 16; 1999 VR₂₄, 3, 1, 0; 1999 VB₂₆, 3, 1, 0; 1999 VF₂₆, 3, 1, 0; 1999 VL₂₆, 3, 1, 0; 1999 VX₂₆, 3, 1, 0; 1999 VJ₂₇, 3, 1, 0; 1999 VK₂₇, 3, 1, 0; 1999 VN₂₇, 6, 2, 3; 1999 VO₂₇, 6, 2, 3; 1999 VR₂₇, 6, 2, 3; 1999 VS₂₇, 3, 1, 0; 1999 VT₂₇, 3, 1, 0; 1999 VV₂₇, 3, 1, 0; 1999 VD₂₈, 3, 1, 0; 1999 VK₂₈, 3, 1, 0; 1999 VJ₂₉, 6, 2, 14; 1999 VJ₃₁, 3, 1, 0; 1999 VG₃₂, 3, 1, 0; 1999 VR₃₂, 3, 1, 0; 1999 VE₃₃, 3, 1, 0; 1999 VK₃₃, 3, 1, 0; 1999 VA₃₄, 3, 1, 0; 1999 VR₃₆, 3, 1, 0; 1999 VO₃₈, 6, 2, 9; 1999 VW₃₉, 6, 2, 28; 1999 VH₄₃, 3, 1, 0; 1999 VM₄₃, 3, 1, 0; 1999 VJ₄₃, 3, 1, 0; 1999 VQ₄₃, 3, 1, 0; 1999 VR₄₃, 3, 1, 0; 1999 VS₄₃, 6, 2, 15; 1999 VU₄₃, 6, 2, 12; 1999 VV₄₃, 6, 2, 12; 1999 VW₄₃, 3, 1, 0; 1999 VX₄₃, 6, 2, 16; 1999 VF₄₄, 3, 1, 0; 1999 VG₄₄, 3, 1, 0; 1999 VH₄₄, 3, 1, 0; 1999 VK₄₄, 3, 1, 0; 1999 VM₄₄, 6, 2, 3; 1999 VN₄₄, 3, 1, 0; 1999 VS₄₄, 6, 2, 3; 1999 VV₄₄, 6, 2, 29; 1999 VX₄₄, 3, 1, 0; 1999 VY₄₄, 6, 2, 3; 1999 VB₄₅, 3, 1, 0; 1999 VD₄₅, 3, 1, 0; 1999 VF₄₅, 3, 1, 0; 1999 VJ₄₅, 6, 2, 3; 1999 VN₄₅, 3, 1, 0; 1999 VR₄₅, 3, 1, 0; 1999 VS₄₅, 3, 1, 0; 1999 VU₄₅, 3, 1, 0; 1999 VT₄₅, 6, 2, 15; 1999 VW₄₆, 3, 1, 0; 1999 VE₄₇, 3, 1, 0; 1999 VQ₄₇, 3, 1, 0; 1999 VR₄₇, 3, 1, 0; 1999 VS₄₇, 9, 3, 30; 1999 VT₄₇, 3, 1, 0; 1999 VU₄₇, 9, 3, 11; 1999 VV₄₇, 3, 1, 0; 1999 VE₄₈, 3, 1, 0; 1999 VH₄₈, 3, 1, 0; 1999 VN₄₈, 3, 1, 0; 1999 VO₄₈, 3, 1, 0; 1999 VP₄₈, 3, 1, 0; 1999 VQ₄₈, 9, 3, 28; 1999 VT₄₈, 3, 1, 0; 1999 VX₄₈, 9, 3, 26; 1999 VY₄₈, 9, 3, 543; 1999 VC₄₉, 9, 3, 15; 1999 VK₄₉, 3, 1, 0; 1999 VR₄₉, 3, 1, 0; 1999 VS₄₉, 3, 1, 0; 1999 VU₄₉, 3, 1, 0; 1999 VV₄₉, 3, 1, 0; 1999 VC₅₀, 3, 1, 0; 1999 VF₅₀, 3, 1, 0; 1999 VH₅₀, 3, 1, 0; 1999 VJ₅₀, 3, 1, 0; 1999 VN₅₀, 3, 1, 0; 1999 VS₅₀, 3, 1, 0; 1999 VU₅₀, 3, 1, 0; 1999 VV₅₀, 6, 2, 14; 1999 VW₅₀, 3, 1, 0; 1999 VX₅₀, 3, 1, 0; 1999 VH₅₁, 3, 1, 0; 1999 VP₅₁, 3, 1, 0; 1999 VR₅₁, 3, 1, 0; 1999 VM₅₄, 3, 1, 0; 1999 VV₅₄, 3, 1, 0; 1999 VK₅₅, 3, 1, 0; 1999 VO₅₅, 3, 1, 0; 1999 VE₅₆, 3, 1, 0; 1999 VF₅₆, 3, 1, 0; 1999 VJ₅₆, 3, 1, 0; 1999 VL₅₆, 3, 1, 0; 1999 VN₅₆, 3, 1, 0; 1999 VS₅₆, 3, 1, 0; 1999 VB₅₇, 3, 1, 0; 1999 VS₅₇, 3, 1, 0; 1999 VA₅₈, 3, 1, 0; 1999 VF₅₈, 3, 1, 0; 1999 VJ₅₈, 3, 1, 0; 1999 VS₅₈, 6, 2, 16; 1999 VR₅₉, 3, 1, 0; 1999 VS₅₉, 3, 1, 0; 1999 VV₅₉, 3, 1, 0; 1999 VP₆₁, 3, 1, 0; 1999 VJ₆₂, 6, 2, 17; 1

2000 APR. 18

M.P.C. 39741

6, 1999 VB₁₇₄ *, 6, 2, 6; 1999 VC₁₇₄ *, 6, 2, 6; 1999 VD₁₇₄ *, 6, 2, 6; 1999 VE₁₇₄ *, 6, 2, 6; 1999 VF₁₇₄ *, 6, 2, 7; 1999 VG₁₇₄ *, 6, 2, 6; 1999 VH₁₇₄ *, 6, 2, 4; 1999 VJ₁₇₄ *, 6, 2, 7; 1999 WB, 3, 1, 0; 1999 WR, 3, 1, 0; 1999 WS, 3, 1, 0; 1999 WF₁, 9, 3, 60; 1999 WR₁, 3, 1, 0; 1999 WV₁, 3, 1, 0; 1999 WK₂, 3, 1, 0; 1999 WY₃, 3, 1, 0; 1999 WT₅, 3, 1, 0; 1999 WC₆, 6, 2, 7; 1999 WH₆, 6, 2, 9; 1999 WY₇, 3, 1, 0; 1999 WE₈, 6, 2, 9; 1999 WG₈, 3, 1, 0; 1999 WM₈, 3, 1, 0; 1999 WT₈, 3, 1, 0; 1999 WD₉, 3, 1, 0; 1999 WH₉, 3, 1, 0; 1999 WJ₉, 3, 1, 0; 1999 WS₁₁, 3, 1, 0; 1999 WT₁₁, 6, 2, 28; 1999 WR₁₂, 3, 1, 0; 1999 WB₁₅, 6, 2, 15; 1999 WL₁₆, 3, 1, 0; 1999 WT₁₆, 3, 1, 0; 1999 WA₁₇, 3, 1, 0; 1999 WF₁₇, 6, 2, 27; 1999 WJ₁₇, 3, 1, 0; 1999 WM₁₇, 3, 1, 0; 1999 WV₁₇, 3, 1, 0; 1999 WN₁₈, 3, 1, 0; 1999 XA, 3, 1, 0; 1999 XB, 3, 1, 0; 1999 XG, 3, 1, 0; 1999 XL, 6, 2, 15; 1999 XU, 6, 2, 24; 1999 XW, 3, 1, 0; 1999 XZ, 6, 2, 23; 1999 XG₁, 3, 1, 0; 1999 XP₁, 3, 1, 0; 1999 XY₁, 3, 1, 0; 1999 XH₂, 6, 2, 27; 1999 XR₂, 6, 2, 29; 1999 XS₂, 9, 3, 15; 1999 XV₂, 9, 3, 28; 1999 XW₂, 6, 2, 15; 1999 XE₄, 3, 1, 0; 1999 XL₄, 3, 1, 0; 1999 XR₄, 6, 2, 9; 1999 XM₅, 3, 1, 0; 1999 XN₆, 3, 1, 0; 1999 XG₆, 3, 1, 0; 1999 XP₆, 3, 1, 0; 1999 XV₆, 3, 1, 0; 1999 XK₇, 3, 1, 0; 1999 XL₇, 3, 1, 0; 1999 XT₇, 3, 1, 0; 1999 XW₇, 3, 1, 0; 1999 XY₇, 6, 2, 28; 1999 XN₈, 3, 1, 0; 1999 XH₁₀, 3, 1, 0; 1999 XS₁₀, 3, 1, 0; 1999 XJ₁₀, 6, 2, 9; 1999 XM₁₁, 3, 1, 0; 1999 XP₁₁, 3, 1, 0; 1999 XS₁₁, 6, 2, 18; 1999 XU₁₁, 3, 1, 0; 1999 XV₁₁, 3, 1, 0; 1999 XW₁₁, 6, 2, 6; 1999 XC₁₂, 6, 2, 9; 1999 XD₁₂, 3, 1, 0; 1999 XF₁₃, 6, 2, 14; 1999 XJ₁₃, 3, 1, 0; 1999 XN₁₃, 3, 1, 0; 1999 XS₁₃, 3, 1, 0; 1999 XP₁₄, 6, 2, 3; 1999 XY₁₅, 7, 2, 73; 1999 XO₁₇, 6, 2, 25; 1999 XS₁₇, 6, 2, 24; 1999 XT₁₇, 9, 3, 29; 1999 XY₁₇, 3, 1, 0; 1999 XZ₁₇, 9, 3, 28; 1999 XB₁₈, 9, 3, 58; 1999 XE₁₈, 6, 2, 26; 1999 XF₁₈, 3, 1, 0; 1999 XG₁₈, 9, 3, 53; 1999 XH₁₈, 3, 1, 0; 1999 XJ₁₈, 3, 1, 0; 1999 XK₁₈, 6, 2, 20; 1999 XL₁₈, 3, 1, 0; 1999 XM₁₈, 6, 2, 29; 1999 XR₁₈, 3, 1, 0; 1999 XT₁₈, 6, 2, 12; 1999 XV₁₈, 3, 1, 0; 1999 XX₁₈, 9, 3, 29; 1999 XD₁₉, 3, 1, 0; 1999 XE₁₉, 3, 1, 0; 1999 XK₁₉, 3, 1, 0; 1999 XM₁₉, 3, 1, 0; 1999 XP₁₉, 3, 1, 0; 1999 XR₁₉, 3, 1, 0; 1999 XS₁₉, 6, 2, 26; 1999 XT₁₉, 6, 2, 19; 1999 XU₁₉, 3, 1, 0; 1999 XV₁₉, 9, 3, 29; 1999 XX₁₉, 6, 2, 18; 1999 XZ₁₉, 6, 2, 18; 1999 XB₂₀, 6, 2, 10; 1999 XE₂₀, 3, 1, 0; 1999 XL₂₀, 3, 1, 0; 1999 XP₂₀, 3, 1, 0; 1999 XS₂₀, 6, 2, 2; 1999 XC₂₁, 3, 1, 0; 1999 XV₂₁, 7, 2, 59; 1999 XX₂₁, 4, 1, 0; 1999 XZ₂₁, 3, 1, 0; 1999 XE₂₂, 3, 1, 0; 1999 XM₂₂, 6, 2, 7; 1999 XF₂₂, 6, 2, 2; 1999 XB₂₃, 3, 1, 0; 1999 XD₂₃, 12, 4, 30; 1999 XH₂₃, 3, 1, 0; 1999 XJ₂₃, 3, 1, 0; 1999 XN₂₃, 3, 1, 0; 1999 XT₂₃, 6, 2, 17; 1999 XZ₂₃, 6, 2, 15; 1999 XW₂₃, 6, 2, 15; 1999 XG₂₃, 3, 1, 0; 1999 XZ₂₃, 6, 2, 7; 1999 XA₂₄, 9, 3, 19; 1999 XB₂₄, 6, 2, 2; 1999 XG₂₄, 6, 2, 9; 1999 XY₂₄, 3, 1, 0; 1999 XZ₂₄, 3, 1, 0; 1999 XA₂₅, 3, 1, 0; 1999 XD₂₅, 3, 1, 0; 1999 XH₂₅, 3, 1, 0; 1999 XJ₂₅, 3, 1, 0; 1999 XK₂₅, 3, 1, 0; 1999 XL₂₅, 6, 2, 22; 1999 XR₂₅, 3, 1, 0; 1999 XS₂₅, 3, 1, 0; 1999 XT₂₅, 3, 1, 0; 1999 XV₂₅, 3, 1, 0; 1999 XZ₂₅, 3, 1, 0; 1999 XE₂₆, 3, 1, 0; 1999 XG₂₆, 9, 3, 17; 1999 XN₂₆, 3, 1, 0; 1999 XM₂₇, 6, 2, 16; 1999 XR₂₇, 3, 1, 0; 1999 XW₂₇, 3, 1, 0; 1999 XY₂₇, 3, 1, 0; 1999 XZ₂₈, 3, 1, 0; 1999 XP₂₈, 3, 1, 0; 1999 XS₂₈, 3, 1, 0; 1999 XT₂₈, 3, 1, 0; 1999 XU₂₈, 3, 1, 0; 1999 XC₂₉, 3, 1, 0; 1999 XH₂₉, 3, 1, 0; 1999 XP₂₉, 3, 1, 0; 1999 XQ₂₉, 3, 1, 0; 1999 XP₃₁, 6, 2, 70; 1999 XX₃₁, 10, 3, 128; 1999 XA₃₂, 6, 2, 5; 1999 XB₃₂, 3, 1, 0; 1999 XC₃₂, 4, 1, 0; 1999 XD₃₂, 4, 1, 0; 1999 XL₃₂, 3, 1, 0; 1999 XN₃₂, 6, 1, 0; 1999 XQ₃

1999 XE₁₁₆, 3, 1, 0; 1999 XF₁₁₆, 3, 1, 0; 1999 XJ₁₁₆, 3, 1, 0; 1999 XU₁₁₆, 3, 1, 0; 1999 XY₁₁₆, 3, 1, 0; 1999 XZ₁₁₆, 6, 2, 7; 1999 XA₁₁₇, 3, 1, 0; 1999 XB₁₁₇, 9, 2, 16; 1999 XD₁₁₇, 6, 2, 22; 1999 XF₁₁₇, 3, 1, 0; 1999 XJ₁₁₇, 3, 1, 0; 1999 XK₁₁₇, 3, 1, 0; 1999 XU₁₁₇, 3, 1, 0; 1999 XY₁₁₇, 6, 2, 7; 1999 XZ₁₁₇, 3, 1, 0; 1999 XD₁₁₈, 9, 3, 85; 1999 XE₁₁₈, 3, 1, 0; 1999 XH₁₁₈, 3, 1, 0; 1999 XP₁₁₈, 3, 1, 0; 1999 XS₁₁₈, 3, 1, 0; 1999 XW₁₁₈, 3, 1, 0; 1999 XX₁₁₈, 6, 2, 55; 1999 XY₁₁₈, 3, 1, 0; 1999 XO₁₁₉, 12, 4, 69; 1999 XY₁₁₉, 3, 1, 0; 1999 XO₁₂₀, 3, 1, 0; 1999 XP₁₂₀, 12, 4, 498; 1999 XT₁₂₀, 3, 1, 0; 1999 XX₁₂₀, 3, 1, 0; 1999 XT₁₂₁, 3, 1, 0; 1999 XX₁₂₁, 6, 2, 10; 1999 XB₁₂₂, 3, 1, 0; 1999 XM₁₂₂, 6, 2, 9; 1999 XO₁₂₂, 3, 1, 0; 1999 XY₁₂₂, 3, 1, 0; 1999 XD₁₂₃, 3, 1, 0; 1999 XM₁₂₃, 3, 1, 0; 1999 XF₁₂₄, 3, 1, 0; 1999 XN₁₂₄, 6, 2, 55; 1999 XZ₁₂₅, 3, 1, 0; 1999 XO₁₂₆, 3, 1, 0; 1999 XP₁₂₆, 3, 1, 0; 1999 XQ₁₂₆, 3, 1, 0; 1999 XT₁₂₆, 3, 1, 0; 1999 XY₁₂₇, 9, 3, 19; 1999 XF₁₂₇, 3, 1, 0; 1999 XK₁₂₇, 3, 1, 0; 1999 XL₁₂₇, 3, 1, 0; 1999 XU₁₂₇, 6, 2, 73; 1999 XT₁₃₄, 3, 1, 0; 1999 XG₁₃₅, 3, 1, 0; 1999 XO₁₃₆, 4, 1, 0; 1999 XR₁₃₆, 7, 2, 172; 1999 XS₁₃₆, 3, 1, 0; 1999 XU₁₃₆, 3, 1, 0; 1999 XC₁₃₇, 6, 2, 9; 1999 XD₁₃₇, 3, 1, 0; 1999 XO₁₃₇, 3, 1, 0; 1999 XQ₁₃₇, 3, 1, 0; 1999 XR₁₃₇, 3, 1, 0; 1999 XV₁₃₇, 3, 1, 0; 1999 XY₁₄₁, 3, 1, 0; 1999 XY₁₄₁, 3, 1, 0; 1999 XC₁₄₃, 9, 3, 31; 1999 XD₁₄₃, 6, 2, 33; 1999 XO₁₄₃, 4, 1, 0; 1999 XU₁₄₃, 3, 1, 0; 1999 XL₁₄₄, 3, 1, 0; 1999 XZ₁₅₀, 3, 1, 0; 1999 XB₁₅₁, 3, 1, 0; 1999 XK₁₅₂, 3, 1, 0; 1999 XP₁₅₂, 6, 2, 52; 1999 XT₁₅₂, 3, 1, 0; 1999 XN₁₅₃, 3, 1, 0; 1999 XS₁₆₂, 9, 3, 27; 1999 XW₁₆₃, 4, 1, 0; 1999 XY₁₆₃, 3, 1, 0; 1999 XE₁₆₄, 4, 1, 0; 1999 XJ₁₆₄, 3, 1, 0; 1999 XN₁₆₄, 3, 1, 0; 1999 XQ₁₆₄, 3, 1, 0; 1999 XU₁₆₄, 3, 1, 0; 1999 XV₁₆₄, 6, 2, 6; 1999 XE₁₆₄, 7, 2, 73; 1999 XY₁₆₄, 8, 2, 14; 1999 XB₁₆₅, 4, 1, 0; 1999 XD₁₆₅, 8, 2, 7; 1999 XE₁₆₅, 4, 1, 0; 1999 XG₁₆₅, 4, 1, 0; 1999 XK₁₆₅, 4, 1, 0; 1999 XP₁₆₅, 4, 1, 0; 1999 XR₁₆₅, 3, 1, 0; 1999 XT₁₆₅, 41, 0; 1999 XU₁₆₅, 4, 1, 0; 1999 XZ₁₆₅, 41, 0; 1999 XD₁₆₆, 3, 1, 0; 1999 XP₁₆₆, 3, 1, 0; 1999 XR₁₆₆, 9, 3, 501; 1999 XZ₁₆₆, 3, 1, 0; 1999 XE₁₆₇, 3, 1, 0; 1999 XJ₁₆₈, 6, 2, 2; 1999 XQ₁₆₈, 3, 1, 0; 1999 XS₁₆₈, 3, 1, 0; 1999 XV₁₇₀, 6, 2, 31; 1999 XE₁₇₂, 3, 1, 0; 1999 XF₁₇₂, 3, 1, 0; 1999 XB₁₇₃, 3, 1, 0; 1999 XJ₁₇₄, 3, 1, 0; 1999 XY₁₇₄, 3, 1, 0; 1999 XH₁₇₅, 3, 1, 0; 1999 XO₁₇₅, 3, 1, 0; 1999 XP₁₇₅, 9, 3, 128; 1999 XK₁₇₆, 6, 2, 69; 1999 XV₁₇₆, 3, 1, 0; 1999 XD₁₇₇, 3, 1, 0; 1999 XN₁₈₀, 4, 1, 0; 1999 XO₁₈₀, 7, 2, 569; 1999 XP₁₈₀, 7, 2, 122; 1999 XU₁₈₀, 4, 1, 0; 1999 XN₁₈₇, 3, 1, 0; 1999 XW₂₀₂, 3, 1, 0; 1999 XM₂₀₅, 3, 1, 0; 1999 XD₂₁₁, 6, 2, 366; 1999 XG₂₁₂, 6, 2, 7; 1999 XH₂₁₂, 3, 1, 0; 1999 XN₂₁₂, 6, 2, 14; 1999 XO₂₂₀, 6, 2, 23; 1999 XP₂₂₀, 6, 2, 5; 1999 XQ₂₂₀, 6, 2, 1; 1999 XE₂₂₁, 4, 1, 0; 1999 XG₂₂₁, 8, 2, 8; 1999 XJ₂₂₁, 7, 2, 84; 1999 XU₂₂₅, 3, 1, 0; 1999 XY₂₂₅, 3, 1, 0; 1999 XS₂₂₆, 3, 1, 0; 1999 XS₂₂₇, 3, 1, 0; 1999 XU₂₂₇, 3, 1, 0; 1999 XA₂₂₈, 6, 2, 22; 1999 XB₂₂₈, 3, 1, 0; 1999 XD₂₃₀, 3, 1, 0; 1999 XG₂₃₀, 6, 2, 6; 1999 XR₂₃₀, 6, 2, 6; 1999 XS₂₃₀, 6, 2, 6; 1999 XQ₂₃₁, 4, 1, 0; 1999 XT₂₃₁, 4, 1, 0; 1999 YG₃, 1, 0; 1999 YT₃, 1, 0; 1999 YZ₃, 1, 0; 1999 YQ₂, 3, 1, 0; 1999 YT₂, 3, 1, 0; 1999 YQ₄, 3, 1, 0; 1999 YA₅, 3, 1, 0; 1999 YE₅, 6, 2, 5; 1999 YH₅, 3, 1, 0; 1999 YH₆, 6, 2, 27; 1999 YD₈, 3, 1, 0; 1999 YG₈, 1, 0; 1999 YT₈, 3, 1, 0; 1999 YA₉, 3, 1, 0; 1999 YC₉, 3, 1, 0; 1999 YE₉, 6, 2, 60; 1999 YG₉, 3, 1, 0; 1999 YL₉, 7, 2, 73; 1999 YP₉, 6, 2, 87; 1999 YS₁₂, 3, 1, 0; 1999 YG₁₃, 3, 1, 0; 1999 YR₁₃, 3, 1, 0; 1999 YS₁₃, 3, 1, 0; 1999 YT₁₃, 3, 1

3, 1, 0; 2000 AK₆₂, 3, 1, 0; 2000 AY₆₂, 4, 1, 0; 2000 AP₆₃, 4, 1, 0; 2000 AZ₆₃, 6, 1, 0; 2000 AA₆₄, 7, 2, 73; 2000 AB₆₄, 3, 1, 0; 2000 AC₆₄, 3, 1, 0; 2000 AE₆₄, 3, 1, 0; 2000 AF₆₄, 7, 2, 59; 2000 AG₆₄, 7, 2, 59; 2000 AJ₆₄, 4, 1, 0; 2000 AS₆₄, 4, 1, 0; 2000 AB₆₅, 7, 2, 73; 2000 AE₆₅, 3, 1, 0; 2000 AM₆₅, 4, 1, 0; 2000 AS₆₅, 4, 1, 0; 2000 AT₆₅, 4, 1, 0; 2000 AW₆₅, 4, 1, 0; 2000 AD₆₆, 3, 1, 0; 2000 AG₆₆, 4, 1, 0; 2000 AH₆₆, 4, 1, 0; 2000 AM₆₆, 4, 1, 0; 2000 AQ₆₆, 4, 1, 0; 2000 AK₆₆, 8, 1, 0; 2000 AU₆₆, 4, 1, 0; 2000 AJ₆₇, 3, 1, 0; 2000 AP₆₇, 3, 1, 0; 2000 AF₆₈, 9, 3, 50; 2000 AK₈₄, 6, 2, 28; 2000 AU₈₄, 3, 1, 0; 2000 AW₈₄, 3, 1, 0; 2000 AZ₈₄, 3, 1, 0; 2000 AB₈₅, 3, 1, 0; 2000 AF₈₅, 3, 1, 0; 2000 AG₈₅, 3, 1, 0; 2000 AJ₈₅, 15, 5, 531; 2000 AO₈₅, 3, 1, 0; 2000 AQ₈₅, 3, 1, 0; 2000 AX₈₅, 3, 1, 0; 2000 AH₈₆, 3, 1, 0; 2000 AJ₈₆, 3, 1, 0; 2000 AK₈₆, 3, 1, 0; 2000 AN₈₆, 3, 1, 0; 2000 AO₈₆, 3, 1, 0; 2000 AZ₈₆, 3, 1, 0; 2000 AH₈₇, 3, 1, 0; 2000 AL₈₇, 3, 1, 0; 2000 AN₈₇, 3, 1, 0; 2000 AE₈₈, 4, 1, 0; 2000 AO₈₈, 3, 1, 0; 2000 AP₈₈, 3, 1, 0; 2000 AA₈₉, 4, 1, 0; 2000 AD₈₉, 3, 1, 0; 2000 AM₈₉, 3, 1, 0; 2000 AN₈₉, 3, 1, 0; 2000 AR₈₉, 3, 1, 0; 2000 AS₉₀, 3, 1, 0; 2000 AJ₉₁, 3, 1, 0; 2000 AK₉₁, 4, 1, 0; 2000 AU₉₁, 3, 1, 0; 2000 AW₉₁, 3, 1, 0; 2000 AZ₉₁, 3, 1, 0; 2000 AE₉₂, 4, 1, 0; 2000 AJ₉₃, 3, 1, 0; 2000 AY₉₃, 4, 1, 0; 2000 AC₉₅, 3, 1, 0; 2000 AD₉₅, 3, 1, 0; 2000 AM₉₅, 3, 1, 0; 2000 AO₉₅, 3, 1, 0; 2000 AQ₉₅, 3, 1, 0; 2000 AR₉₅, 3, 1, 0; 2000 AX₉₅, 3, 1, 0; 2000 AB₉₆, 4, 1, 0; 2000 AF₉₆, 3, 1, 0; 2000 AG₉₆, 7, 2, 59; 2000 AM₉₆, 3, 1, 0; 2000 AN₉₆, 3, 1, 0; 2000 AQ₉₆, 3, 1, 0; 2000 AT₉₆, 4, 1, 0; 2000 AW₉₆, 3, 1, 0; 2000 AZ₉₆, 3, 1, 0; 2000 AA₉₇, 7, 2, 81; 2000 AB₉₇, 4, 1, 0; 2000 AC₉₇, 4, 1, 0; 2000 AD₉₇, 4, 1, 0; 2000 AE₉₇, 4, 1, 0; 2000 AF₉₇, 4, 1, 0; 2000 AG₉₇, 4, 1, 0; 2000 AH₉₇, 4, 1, 0; 2000 AK₉₇, 4, 1, 0; 2000 AQ₉₇, 4, 1, 0; 2000 AS₉₇, 4, 1, 0; 2000 AU₉₇, 4, 1, 0; 2000 AV₉₇, 4, 1, 0; 2000 AX₉₇, 4, 1, 0; 2000 AY₉₇, 4, 1, 0; 2000 AB₉₈, 4, 1, 0; 2000 AC₉₈, 3, 1, 0; 2000 AD₉₈, 4, 1, 0; 2000 AF₉₈, 4, 1, 0; 2000 AM₉₈, 4, 1, 0; 2000 AN₉₈, 4, 1, 0; 2000 AN₉₉, 6, 2, 7; 2000 AO₉₉, 6, 2, 7; 2000 AS₉₉, 12, 4, 32; 2000 AZ₉₉, 6, 2, 2; 2000 AC₁₀₀, 6, 2, 2; 2000 AF₁₀₀, 6, 2, 2; 2000 AJ₁₀₀, 6, 2, 7; 2000 AN₁₀₀, 3, 1, 0; 2000 AO₁₀₀, 9, 3, 59; 2000 AP₁₀₁, 6, 2, 15; 2000 AX₁₀₁, 12, 4, 60; 2000 AO₁₀₂, 6, 2, 2; 2000 AP₁₀₂, 3, 1, 0; 2000 AB₁₁₃, 6, 2, 58; 2000 AP₁₁₅, 3, 1, 0; 2000 AR₁₁₈, 4, 1, 0; 2000 AD₁₁₉, 4, 1, 0; 2000 AK₁₁₉, 3, 1, 0; 2000 AR₁₁₉, 4, 1, 0; 2000 AG₁₂₀, 3, 1, 0; 2000 AR₁₂₀, 4, 1, 0; 2000 AK₁₂₁, 3, 1, 0; 2000 AQ₁₂₃, 4, 1, 0; 2000 AB₁₂₄, 3, 1, 0; 2000 AD₁₂₄, 6, 2, 13; 2000 AF₁₂₄, 3, 1, 0; 2000 AG₁₂₄, 6, 2, 13; 2000 AH₁₂₄, 3, 1, 0; 2000 AM₁₂₄, 3, 1, 0; 2000 AQ₁₂₄, 3, 1, 0; 2000 AY₁₂₄, 4, 1, 0; 2000 AB₁₂₅, 4, 1, 0; 2000 AK₁₂₅, 3, 1, 0; 2000 AN₁₂₅, 7, 2, 73; 2000 AO₁₂₅, 3, 1, 0; 2000 AU₁₂₅, 3, 1, 0; 2000 AW₁₂₅, 3, 1, 0; 2000 AY₁₂₅, 7, 2, 73; 2000 AA₁₂₆, 3, 1, 0; 2000 AD₁₂₆, 3, 1, 0; 2000 AE₁₂₆, 3, 1, 0; 2000 AQ₁₂₆, 7, 2, 73; 2000 AT₁₂₆, 3, 1, 0; 2000 AV₁₂₆, 3, 1, 0; 2000 AW₁₂₆, 3, 1, 0; 2000 AZ₁₂₆, 9, 3, 454; 2000 AB₁₂₇, 3, 1, 0; 2000 AC₁₂₇, 3, 1, 0; 2000 AM₁₂₇, 7, 2, 73; 2000 AR₁₂₇, 3, 1, 0; 2000 AS₁₂₇, 3, 1, 0; 2000 AW₁₂₇, 3, 1, 0; 2000 AX₁₂₇, 3, 1, 0; 2000 AY₁₂₇, 7, 2, 73; 2000 AE₁₂₈, 4, 1, 0; 2000 AK₁₂₈, 4, 1, 0; 2000 AM₁₂₈, 4, 1, 0; 2000 AO₁₂₈, 4, 1, 0; 2000 AR₁₂₈, 4, 1, 0; 2000 AT₁₂₈, 4, 1, 0; 2000 AU₁₂₈, 3, 1, 0; 2000 AV₁₂₈, 7, 2, 74; 2000 AD₁₂₉, 4, 1, 0; 2000 AE₁₂₉, 3, 1, 0; 2000 AP₁₂₉, 3, 1, 0; 2000 AS₁₂₉, 3, 1, 0; 2000 AU₁₂₉, 7, 2, 59; 2000 AD₁₃₀, 3, 1, 0; 2000 AD₁₃₁, 3, 1, 0; 2000 AG₁₃₁, 7, 2, 74; 2000 AB₁₃₃, 4, 1, 0; 2000 AG₁₃₃, 7, 2, 144; 2000 AL₁₃₃, 6, 2, 3; 2000 AS₁₃₃, 3, 1, 0; 2000 AY₁₃₅, 3, 1, 0; 2000 AQ₁₃₆, 4, 1, 0; 2000 AT₁₃₆, 4, 1, 0; 2000 AV₁₃₆, 4, 1, 0; 2000 AX₁₃₆, 4, 1, 0; 2000 AZ₁₃₆, 4, 1, 0; 2000 AC₁₃₇, 4, 1, 0; 2000 AF₁₃₇, 4, 1, 0; 2000 AG₁₃₇, 4, 1, 0; 2000 AH₁₃₇, 3, 1, 0; 2000 AJ₁₃₇, 4, 1, 0; 2000 AL₁₃₇, 4, 1, 0; 2000 AO₁₃₇, 4, 1, 0; 2000 AT₁₃₇, 4, 1, 0; 2000 AU₁₃₇, 4, 1, 0; 2000 AV₁₃₇, 7, 2, 80; 2000 AX₁₃₇, 8, 2, 12; 2000 AY₁₃₇, 12, 3, 22; 2000 AA₁₃₈, 4, 1, 0; 2000 AB₁₃₈, 11, 3, 80; 2000 AF₁₃₈, 15, 5, 56; 2000 AE₁₃₉, 9, 3, 16; 2000 AF₁₃₉, 9, 3, 10; 2000 AM₁₃₉, 3, 1, 0; 2000 AR₁₃₉, 6, 2, 1; 2000 AS₁₃₉, 6, 2, 5; 2000 AX₁₃₉, 9, 3, 42; 2000 AZ₁₃₉, 6, 2, 11; 2000 AD₁₄₀, 6, 2, 2; 2000 AE₁₄₀, 3, 1, 0; 2000 AX₁₄₀, 4, 1, 0; 2000 AJ₁₄₁, 4, 1, 0; 2000 AK₁₄₁, 4, 1, 0; 2000 AL₁₄₁, 3, 1, 0; 2000 AN₁₄₁, 4, 1, 0; 2000 AQ₁₄₁, 4, 1, 0; 2000 AT₁₄₁, 4, 1, 0; 2000 AA₁₄₂, 7, 2, 558; 2000 AB₁₄₂, 4, 1, 0; 2000 AJ₁₄₂, 4, 1, 0; 2000 AL₁₄₂, 4, 1, 0; 2000 AO₁₄₂, 8, 2, 6; 2000 AO₁₄₂, 8, 2, 6; 2000 AU₁₄₂, 4, 1, 0; 2000 AC₁₄₃, 4, 1, 0; 2000 AD₁₄₃, 4, 1, 0; 2000 AF₁₄₃, 4, 1, 0; 2000 AH₁₄₃, 4, 1, 0; 2000 AJ₁₄₃, 4, 1, 0; 2000 AL₁₄₃, 4, 1, 0; 2000 AC₁₄₃, 4, 1, 0; 2000 AC₁₄₄, 8, 2, 8; 2000 AD₁₄₄, 4, 1, 0; 2000 AE₁₄₄, 8, 2, 8; 2000 AF₁₄₄, 8, 2, 8; 2000 AM₁₄₄, 4, 1, 0; 2000 AN₁₄₄, 4, 1, 0; 2000 AO₁₄₄, 4, 1, 0; 2000 AQ₁₄₄, 4, 1, 0; 2000 AS₁₄₄, 4, 1, 0; 2000 AT₁₄₄, 4, 1, 0; 2000 AU₁₄₄, 3, 1, 0; 2000 AV₁₄₄, 4, 1, 0; 2000 AZ₁₄₄, 8, 2, 6; 2000 AZ₁₄₅, 3, 1, 0; 2000 AV₁₄₆, 4, 1, 0; 2000 AA₁₄₇, 4, 1, 0; 2000 AB₁₄₇, 3, 1, 0; 2000 AB₁₄₈, 3, 1, 0; 2000 AC₁₄₈, 3, 1, 0; 2000 AD₁₄₈, 3, 1, 0; 2000 AH₁₄₈, 4, 1, 0; 2000 AF₁₅₂, 3, 1, 0; 2000 AC₁₅₃, 4, 1, 0; 2000 AH₁₅₃, 3, 1, 0; 2000 AU₁₅₄, 3, 1, 0; 2000 AV₁₅₈, 3, 1, 0; 2000 AB₁₅₉, 3, 1, 0; 2000 AL₁₅₉, 3, 1, 0; 2000 AT₁₅₉, 3, 1, 0; 2000 AX₁₅₉, 6, 2, 26; 2000 AS₁₆₁, 9, 3, 15; 2000 AT₁₆₁, 6, 2, 15; 2000 AC₁₆₂, 7, 2, 73; 2000 AJ₁₆₂, 3, 1, 0; 2000 AM₁₆₂, 4, 1, 0; 2000 AR₁₆₂, 8, 2, 8; 2000 AS₁₆₂, 4, 1, 0; 2000 AU₁₆₂, 4, 1, 0; 2000 AX₁₆₂, 6, 2, 17; 2000 AY₁₆₃, 3, 1, 0; 2000 AD₁₆₄, 3, 1, 0; 2000 AE₁₆₄, 3, 1, 0; 2000 AF₁₆₄, 4, 1, 0; 2000 AK₁₆₄, 8, 2, 7; 2000 AN₁₆₄, 4, 1, 0; 2000 AO₁₆₄, 4, 1, 0; 2000 AQ₁₆₄, 4, 1, 0; 2000 AL₁₆₅, 3, 1, 0; 2000 AM₁₆₇, 4, 1, 0; 2000 AG₁₆₈, 4, 1, 0; 2000 AM₁₈₅, 4, 1, 0; 2000 AP₁₈₅, 9, 3, 16; 2000 AC₁₈₆, 6, 2, 5; 2000 AH₁₈₆, 3, 1, 0; 2000 AA₁₈₇, 3, 1, 0; 2000 AE₁₈₇, 6, 2, 3; 2000 AG₁₈₇, 6, 2, 7; 2000 AB₁₈₈, 3, 1, 0; 2000 AE₁₈₈, 6, 2, 49; 2000 AZ₁₉₃, 6, 2, 22; 2000 AF₁₉₆, 4, 1, 0; 2000 AR₁₉₆, 4, 1, 0; 2000 AC₁₉₇, 4, 1, 0; 2000 AS₁₉₇, 7, 2, 138; 2000 AG₁₉₈, 4, 1, 0; 2000 AL₁₉₈, 4, 1, 0; 2000 AT₁₉₈, 4, 1, 0; 2000 AV₁₉₈, 4, 1, 0; 2000 AG₁₉₉, 3, 1, 0; 2000 AJ₁₉₉, 3, 1, 0; 2000 AT₁₉₉, 3, 1, 0; 2000 AV₁₉₉, 6, 2, 1; 2000 AZ₁₉₉, 6, 2, 5; 2000 AC₂₀₀, 3, 1, 0; 2000 AR₂₀₀, 3, 1, 0; 2000 AS₂₀₀, 6, 2, 30; 2000 AZ₂₀₂, 4, 1, 0; 2000 AB₂₀₃, 4, 1, 0; 2000 AE₂₀₃, 4, 1, 0; 2000 AH₂₀₃, 8, 2, 4; 2000 AJ₂₀₃,

4, 1, 0; 2000 AK₂₀₃, 4, 1, 0; 2000 AR₂₀₃, 4, 1, 0; 2000 AV₂₀₃, 4, 1, 0; 2000 AW₂₀₃, 4, 1, 0; 2000 AY₂₀₃, 4, 1, 0; 2000 AZ₂₀₃, 4, 1, 0; 2000 AD₂₀₄, 7, 2, 73; 2000 AF₂₀₄, 3, 1, 0; 2000 AA₂₀₅, 9, 3, 85; 2000 AS₂₀₅, 3, 1, 0; 2000 AD₂₀₉, 3, 1, 0; 2000 AO₂₁₄, 3, 1, 0; 2000 AK₂₁₅, 3, 1, 0; 2000 AR₂₁₅, 3, 1, 0; 2000 AH₂₁₉, 3, 1, 0; 2000 AM₂₂₀, 3, 1, 0; 2000 AO₂₂₀, 3, 1, 0; 2000 AF₂₂₉, 9, 3, 21; 2000 AP₂₃₀, 8, 2, 14; 2000 AS₂₃₀, 3, 1, 0; 2000 AT₂₃₀, 3, 1, 0; 2000 AV₂₃₁, 3, 1, 0; 2000 AA₂₃₂, 3, 1, 0; 2000 AD₂₃₃, 4, 1, 0; 2000 AJ₂₃₃, 4, 1, 0; 2000 AO₂₃₃, 4, 1, 0; 2000 AU₂₃₃, 6, 2, 7; 2000 AN₂₃₅, 3, 1, 0; 2000 AY₂₃₅, 3, 1, 0; 2000 AO₂₃₆, 4, 1, 0; 2000 AS₂₃₆, 4, 1, 0; 2000 AT₂₃₆, 4, 1, 0; 2000 AU₂₃₆, 8, 2, 8; 2000 AV₂₃₆, 8, 2, 8; 2000 AZ₂₃₆, 4, 1, 0; 2000 AA₂₃₇, 4, 1, 0; 2000 AD₂₃₇, 4, 1, 0; 2000 AH₂₃₇, 4, 1, 0; 2000 AJ₂₃₇, 4, 1, 0; 2000 AO₂₃₇, 7, 2, 80; 2000 AP₂₃₇, 4, 1, 0; 2000 AQ₂₃₇, 4, 1, 0; 2000 AR₂₃₇, 4, 1, 0; 2000 AS₂₃₇, 4, 1, 0; 2000 AT₂₃₇, 4, 1, 0; 2000 AJ₂₃₈, 9, 3, 51; 2000 AR₂₃₈, 3, 1, 0; 2000 AE₂₃₉, 3, 1, 0; 2000 AN₂₃₉, 8, 1, 0; 2000 AV₂₃₉, 4, 1, 0; 2000 AZ₂₃₉, 4, 1, 0; 2000 AC₂₄₀, 7, 2, 136; 2000 AD₂₄₀, 4, 1, 0; 2000 AE₂₄₀, 4, 1, 0; 2000 AO₂₄₀, 3, 1, 0; 2000 AD₂₄₁, 6, 2, 26; 2000 AX₂₄₁, 4, 1, 0; 2000 AB₂₄₂, 4, 1, 0; 2000 AC₂₄₂, 6, 2, 23; 2000 AF₂₄₂, 8, 2, 6; 2000 AN₂₄₂, 4, 1, 0; 2000 AR₂₄₂, 3, 1, 0; 2000 AS₂₄₂, 7, 2, 81; 2000 AU₂₄₂, 8, 2, 6; 2000 AY₂₄₂, 3, 1, 0; 2000 AB₂₄₃, 7, 2, 439; 2000 AC₂₄₃, 4, 1, 0; 2000 AK₂₄₃, 4, 1, 0; 2000 AN₂₄₃, 4, 1, 0; 2000 AO₂₄₃, 4, 1, 0; 2000 AP₂₄₃, 4, 1, 0; 2000 AA₂₄₄, 4, 1, 0; 2000 AG₂₄₆, 12, 3, 7; 2000 AJ₂₄₆, 11, 3, 85; 2000 AK₂₄₆, 3, 1, 0; 2000 BE₃, 1, 0; 2000 BD₁, 4, 1, 0; 2000 BE₁, 4, 1, 0; 2000 BC₃, 3, 1, 0; 2000 BD₃, 4, 1, 0; 2000 BF₃, 3, 1, 0; 2000 BK₃, 4, 1, 0; 2000 BP₃, 3, 1, 0; 2000 BQ₃, 3, 1, 0; 2000 BR₃, 4, 1, 0; 2000 BX₃, 4, 1, 0; 2000 BY₃, 4, 1, 0; 2000 BW₄, 3, 1, 0; 2000 BC₅, 3, 1, 0; 2000 BE₅, 6, 2, 26; 2000 BE₆, 3, 1, 0; 2000 BY₆, 6, 2, 39; 2000 BM₇, 3, 1, 0; 2000 BZ₈, 4, 1, 0; 2000 BV₁₀, 8, 2, 8; 2000 BE₁₃, 3, 1, 0; 2000 BX₁₃, 4, 1, 0; 2000 BA₁₄, 3, 1, 0; 2000 BC₁₄, 3, 1, 0; 2000 BD₁₄, 4, 1, 0; 2000 BE₁₄, 3, 1, 0; 2000 BR₁₄, 4, 1, 0; 2000 BT₁₄, 4, 1, 0; 2000 BB₁₅, 4, 1, 0; 2000 BX₁₅, 3, 1, 0; 2000 BE₁₆, 4, 1, 0; 2000 BE₁₇, 3, 1, 0; 2000 BH₁₇, 3, 1, 0; 2000 BV₁₇, 3, 1, 0; 2000 BX₁₇, 3, 1, 0; 2000 BY₁₇, 3, 1, 0; 2000 BN₁₈, 3, 1, 0; 2000 BP₁₈, 3, 1, 0; 2000 BG₁₉, 4, 1, 0; 2000 BF₂₂, 4, 1, 0; 2000 BY₂₂, 3, 1, 0; 2000 BE₂₃, 3, 1, 0; 2000 BK₂₃, 4, 1, 0; 2000 BA₂₅, 3, 1, 0; 2000 BF₂₅, 3, 1, 0; 2000 BN₂₅, 3, 1, 0; 2000 BO₂₅, 3, 1, 0; 2000 BQ₂₅, 3, 1, 0; 2000 BY₂₅, 3, 1, 0; 2000 BC₂₆, 3, 1, 0; 2000 BJ₂₆, 4, 1, 0; 2000 BQ₂₆, 6, 2, 14; 2000 BY₂₆, 4, 1, 0; 2000 BH₂₇, 3, 1, 0; 2000 BJ₂₇, 7, 2, 80; 2000 BM₂₇, 3, 1, 0; 2000 BN₂₇, 3, 1, 0; 2000 BQ₂₇, 3, 1, 0; 2000 BX₂₇, 3, 1, 0; 2000 BZ₂₇, 3, 1, 0; 2000 BE₂₈, 3, 1, 0; 2000 BR₂₈, 3, 1, 0; 2000 BW₂₈, 3, 1, 0; 2000 BS₂₉, 4, 1, 0; 2000 BX₂₉, 3, 1, 0; 2000 BG₃₀, 3, 1, 0; 2000 CD₃, 1, 0; 2000 CH₃, 1, 0; 2000 CX₄, 1, 0; 2000 CK₁, 4, 1, 0; 2000 CL₁, 4, 1, 0; 2000 CM₁, 4, 1, 0; 2000 CQ₁, 4, 1, 0; 2000 CT₁, 8, 1, 0; 2000 CU₁, 4, 1, 0; 2000 CV₁, 4, 1, 0; 2000 CW₁, 4, 1, 0; 2000 CX₁, 4, 1, 0; 2000 CB₂, 4, 1, 0; 2000 CD₂, 4, 1, 0; 2000 CG₂, 4, 1, 0; 2000 CJ₂, 4, 1, 0; 2000 CK₂, 7, 2, 84; 2000 CL₂, 7, 2, 76; 2000 CM₂, 3, 1, 0; 2000 CP₂, 4, 1, 0; 2000 CR₂, 4, 1, 0; 2000 CB₄, 4, 1, 0; 2000 CN₉, 3, 1, 0; 2000 CO₉, 3, 1, 0; 2000 CP₁₀, 3, 1, 0; 2000 CP₁₁, 3, 1, 0; 2000 CD₁₃, 3, 1, 0; 2000 CL₁₃, 3, 1, 0; 2000 CM₁₄, 3, 1, 0; 2000 CL₁₇, 4, 1, 0; 2000 CD₁₈, 3, 1, 0; 2000 CF₁₈, 7, 2, 73; 2000 CG₂₀, 4, 1, 0; 2000 CH₂₀, 3, 1, 0; 2000 CC₂₄, 4, 1, 0; 2000 CP₂₄, 4, 1, 0; 2000 CH₂₅, 4, 1, 0; 2000 CN₂₅, 4, 1, 0; 2000 CW₂₅, 3, 1, 0; 2000 CZ₂₅, 3, 1, 0; 2000 CR₂₆, 7, 2, 80; 2000 CZ₂₆, 4, 1, 0; 2000 CL₂₇, 4, 1, 0; 2000 CT₂₇, 4, 1, 0; 2000 CX₂₇, 3, 1, 0; 2000 CC₂₈, 10, 3, 470; 2000 CJ₂₈, 3, 1, 0; 2000 CM₂₈, 4, 1, 0; 2000 CY₂₈, 3, 1, 0; 2000 CZ₂₈, 3, 1, 0; 2000 CA₂₉, 7, 2, 80; 2000 CO₂₉, 4, 1, 0; 2000 CP₂₉, 4, 1, 0; 2000 CT₂₉, 3, 1, 0; 2000 CQ₃₁, 4, 1, 0; 2000 CC₃₂, 4, 1, 0; 2000 CR₃₂, 4, 1, 0; 2000 CH₃₃, 4, 1, 0; 2000 CW₃₃, 3, 1, 0; 2000 CY₃₃, 4, 1, 0; 2000 CZ₃₃, 8, 2, 8; 2000 CA₃₄, 4, 1, 0; 2000 CB₃₄, 4, 1, 0; 2000 CC₃₄, 4, 1, 0; 2000 CD₃₄, 4, 1, 0; 2000 CE₃₄, 4, 1, 0; 2000 CF₃₄, 4, 1, 0; 2000 CJ₃₄, 4, 1, 0; 2000 CK₃₄, 8, 2, 8; 2000 C

2000 APR. 18

M.P.C. 39743

1, 0; 2000 CZ₅₇, 8, 2, 24; 2000 CA₅₈, 4, 1, 0; 2000 CB₅₈, 4, 1, 0; 2000 CC₅₈, 7, 2, 73; 2000 CD₅₈, 4, 1, 0; 2000 CE₅₈, 3, 1, 0; 2000 CN₅₈, 3, 1, 0; 2000 CO₅₈, 4, 1, 0; 2000 CP₅₈, 4, 1, 0; 2000 CQ₅₈, 7, 2, 61; 2000 CM₅₉, 12, 3, 11; 2000 CQ₆₀, 4, 1, 0; 2000 CS₆₀, 4, 1, 0; 2000 CZ₆₀, 4, 1, 0; 2000 CE₆₁, 4, 1, 0; 2000 CF₆₁, 8, 2, 8; 2000 CG₆₁, 12, 3, 24; 2000 CJ₆₁, 4, 1, 0; 2000 CK₆₁, 13, 4, 557; 2000 CL₆₁, 4, 1, 0; 2000 CM₆₁, 4, 1, 0; 2000 CO₆₁, 4, 1, 0; 2000 CT₆₁, 8, 2, 24; 2000 CU₆₁, 4, 1, 0; 2000 CV₆₁, 8, 2, 8; 2000 CW₆₁, 8, 2, 8; 2000 CX₆₁, 3, 1, 0; 2000 CZ₆₁, 8, 2, 24; 2000 CB₆₂, 4, 1, 0; 2000 CD₆₂, 8, 2, 24; 2000 CE₆₂, 7, 2, 84; 2000 CF₆₂, 8, 2, 24; 2000 CG₆₂, 4, 1, 0; 2000 CH₆₂, 4, 1, 0; 2000 CK₆₂, 4, 1, 0; 2000 CL₆₂, 4, 1, 0; 2000 CM₆₂, 4, 1, 0; 2000 CN₆₂, 7, 2, 82; 2000 CO₆₂, 4, 1, 0; 2000 CP₆₂, 4, 1, 0; 2000 CR₆₂, 4, 1, 0; 2000 CT₆₂, 4, 1, 0; 2000 CZ₆₂, 4, 1, 0; 2000 CB₆₃, 4, 1, 0; 2000 CC₆₃, 4, 1, 0; 2000 CE₆₃, 4, 1, 0; 2000 CG₆₃, 4, 1, 0; 2000 CJ₆₃, 4, 1, 0; 2000 CN₆₃, 7, 2, 87; 2000 CP₆₃, 4, 1, 0; 2000 CQ₆₃, 4, 1, 0; 2000 CS₆₃, 4, 1, 0; 2000 CU₆₃, 8, 2, 8; 2000 CW₆₃, 4, 1, 0; 2000 CX₆₃, 4, 1, 0; 2000 CZ₆₃, 4, 1, 0; 2000 CA₆₄, 4, 1, 0; 2000 CC₆₄, 3, 1, 0; 2000 CF₆₄, 4, 1, 0; 2000 CQ₆₅, 7, 2, 81; 2000 CS₆₅, 4, 1, 0; 2000 CW₆₅, 8, 2, 15; 2000 CS₆₆, 4, 1, 0; 2000 CB₆₇, 12, 3, 7; 2000 CH₆₇, 3, 1, 0; 2000 CB₇₀, 8, 2, 8; 2000 CF₇₀, 8, 2, 24; 2000 CH₇₀, 4, 1, 0; 2000 CK₇₀, 4, 1, 0; 2000 CL₇₀, 4, 1, 0; 2000 CM₇₀, 4, 1, 0; 2000 CO₇₀, 7, 2, 84; 2000 CQ₇₀, 8, 2, 24; 2000 CW₇₀, 4, 1, 0; 2000 CX₇₀, 7, 2, 110; 2000 CX₇₀, 4, 1, 0; 2000 CY₇₀, 7, 2, 82; 2000 CA₇₁, 4, 1, 0; 2000 CH₇₁, 4, 1, 0; 2000 CM₇₁, 4, 1, 0; 2000 CN₇₁, 4, 1, 0; 2000 CP₇₁, 7, 2, 84; 2000 CR₇₁, 4, 1, 0; 2000 CL₇₂, 7, 2, 80; 2000 CP₇₂, 3, 1, 0; 2000 CJ₇₅, 3, 1, 0; 2000 CQ₇₅, 3, 1, 0; 2000 CR₇₅, 4, 1, 0; 2000 CS₇₅, 4, 1, 0; 2000 CU₇₅, 4, 1, 0; 2000 CC₇₆, 7, 2, 87; 2000 CD₇₆, 4, 1, 0; 2000 CF₇₆, 4, 1, 0; 2000 CQ₇₆, 4, 1, 0; 2000 CS₇₆, 4, 1, 0; 2000 CU₇₆, 4, 1, 0; 2000 CY₇₆, 4, 1, 0; 2000 CZ₇₇, 4, 1, 0; 2000 CD₇₇, 4, 1, 0; 2000 CE₇₇, 4, 1, 0; 2000 CV₇₇, 4, 1, 0; 2000 CW₇₇, 4, 1, 0; 2000 CM₇₈, 4, 1, 0; 2000 CO₈₀, 4, 1, 0; 2000 CO₈₁, 3, 1, 0; 2000 CV₈₁, 3, 1, 0; 2000 CW₈₁, 3, 1, 0; 2000 CC₈₂, 3, 1, 0; 2000 CE₈₂, 3, 1, 0; 2000 CJ₈₂, 3, 1, 0; 2000 CK₈₂, 3, 1, 0; 2000 CM₈₂, 3, 1, 0; 2000 CQ₈₂, 3, 1, 0; 2000 CU₈₂, 3, 1, 0; 2000 CV₈₂, 3, 1, 0; 2000 CD₈₃, 3, 1, 0; 2000 CF₈₃, 7, 2, 80; 2000 CR₈₃, 10, 3, 83; 2000 CT₈₃, 3, 1, 0; 2000 CX₈₃, 3, 1, 0; 2000 CZ₈₃, 4, 1, 0; 2000 CA₈₄, 4, 1, 0; 2000 CG₈₄, 4, 1, 0; 2000 CR₈₄, 4, 1, 0; 2000 CS₈₄, 4, 1, 0; 2000 CB₈₅, 4, 1, 0; 2000 CA₈₅, 4, 1, 0; 2000 CB₈₅, 3, 1, 0; 2000 CG₈₅, 4, 1, 0; 2000 CL₈₅, 4, 1, 0; 2000 CN₈₅, 4, 1, 0; 2000 CP₈₅, 8, 2, 23; 2000 CQ₈₅, 3, 1, 0; 2000 CV₈₅, 4, 1, 0; 2000 CX₈₅, 4, 1, 0; 2000 CY₈₅, 4, 1, 0; 2000 CA₈₆, 4, 1, 0; 2000 CD₈₆, 4, 1, 0; 2000 CJ₈₆, 2, 1, 0; 2000 CK₈₆, 6, 2, 3; 2000 CP₈₆, 4, 1, 0; 2000 CQ₈₆, 4, 1, 0; 2000 CS₈₆, 4, 1, 0; 2000 CU₈₆, 4, 1, 0; 2000 CV₈₆, 7, 2, 84; 2000 CW₈₆, 4, 1, 0; 2000 CX₈₆, 4, 1, 0; 2000 CY₈₆, 4, 1, 0; 2000 CZ₈₆, 7, 2, 85; 2000 CB₈₇, 4, 1, 0; 2000 CD₈₇, 4, 1, 0; 2000 CH₈₇, 4, 1, 0; 2000 CK₈₇, 4, 1, 0; 2000 CM₈₇, 4, 1, 0; 2000 CN₈₇, 7, 2, 84; 2000 CO₈₇, 1, 1, 0; 2000 CW₈₇, 4, 1, 0; 2000 CC₈₈, 4, 1, 0; 2000 CF₈₈, 4, 1, 0; 2000 CH₈₈, 4, 1, 0; 2000 CL₈₈, 4, 1, 0; 2000 CM₈₈, 4, 1, 0; 2000 CN₈₈, 4, 1, 0; 2000 CO₈₈, 4, 1, 0; 2000 CT₈₈, 4, 1, 0; 2000 CX₈₈, 4, 1, 0; 2000 CY₈₈, 4, 1, 0; 2000 CZ₈₈, 4, 1, 0; 2000 CG₈₉, 4, 1, 0; 2000 CK₈₉, 4, 1, 0; 2000 CP₈₉, 4, 1, 0; 2000 CQ₈₉, 4, 1, 0; 2000 CT₈₉, 4, 1, 0; 2000 CK₉₀, 4, 1, 0; 2000 CU₉₀, 4, 1, 0; 2000 CA₉₁, 4, 1, 0; 2000 CC₉₁, 8, 2, 8; 2000 CE₉₁, 8, 2, 8; 2000 CF₉₁, 4, 1, 0; 2000 CG₉₁, 4, 1, 0; 2000 CH₉₁, 4, 1, 0; 2000 CL₉₁, 4, 1, 0; 2000 CM₉₁, 8, 2, 8; 2000 CN₉₁, 4, 1, 0; 2000 CO₉₁, 4, 1, 0; 2000 CS₉₁, 4, 1, 0; 2000 CT₉₁, 4, 1, 0; 2000 CY₉₁, 4, 1, 0; 2000 CZ₉₁, 4, 1, 0; 2000 CA₉₂, 4, 1, 0; 2000 CB₉₂, 4, 1, 0; 2000 CC₉₂, 4, 1, 0; 2000 CD₉₂, 4, 1, 0; 2000 CE₉₂, 4, 1, 0; 2000 CK₉₂, 4, 1, 0; 2000 CM₉₂, 4, 1, 0; 2000 CN₉₂, 4, 1, 0; 2000 CO₉₂, 4, 1, 0; 2000 CP₉₂, 4, 1, 0; 2000 CQ₉₂, 4, 1, 0; 2000 CT₉₂, 4, 1, 0; 2000 CU₉₂, 4, 1, 0; 2000 CV₉₂, 4, 1, 0; 2000 CX₉₂, 3, 1, 0; 2000 CY₉₂, 9, 3, 78; 2000 CZ₉₂, 4, 1, 0; 2000 CB₉₃, 3, 1, 0; 2000 CC₉₃, 4, 1, 0; 2000 CE₉₃, 4, 1, 0; 2000 CF₉₃, 4, 1, 0; 2000 CG₉₃, 12, 3, 22; 2000 CL₉₃, 4, 1, 0; 2000 CO₉₃, 4, 1, 0; 2000 CS₉₃, 4, 1, 0; 2000 CC₉₄, 7, 2, 80; 2000 CD₉₄, 4, 1, 0; 2000 CE₉₄, 8, 2, 12; 2000 CF₉₄, 8, 2, 12; 2000 CG₉₄, 8, 2, 12; 2000 CJ₉₄, 4, 1, 0; 2000 CL₉₄, 4, 1, 0; 2000 CM₉₄, 8, 2, 12; 2000 CN₉₄, 4, 1, 0; 2000 CO₉₄, 8, 2, 12; 2000 CP₉₄, 4, 1, 0; 2000 CQ₉₄, 4, 1, 0; 2000 CR₉₄, 8, 2, 12; 2000 CT₉₄, 8, 2, 22; 2000 CU₉₄, 15, 4, 83; 2000 CW₉₄, 4, 1, 0; 2000 CY₉₄, 10, 3, 532; 2000 CZ₉₄, 3, 1, 0; 2000 CC₉₅, 4, 1, 0; 2000 CF₉₅, 8, 2, 3; 2000 CG₉₅, 4, 1, 0; 2000 CL₉₆, 8, 2, 8; 2000 CO₉₆, 3, 1, 0; 2000 CW₉₆, 4, 1, 0; 2000 CY₉₆, 8, 2, 16; 2000 CZ₉₆, 8, 2, 24; 2000 CE₉₇, 4, 1, 0; 2000 CH₉₇, 4, 1, 0; 2000 CK₉₇, 4, 1, 0; 2000 CM₉₇, 4, 1, 0; 2000 CR₉₇, 4, 1, 0; 2000 CH₁₀₀, 3, 1, 0; 2000 CM₁₀₁, 4, 1, 0; 2000 CU₁₀₁, 4, 1, 0; 2000 CV₁₀₁, 4, 1, 0; 2000 CU₁₀₂, 4, 1, 0; 2000 CW₁₀₂, 12, 3, 11; 2000 CZ₁₀₂, 4, 1, 0; 2000 CK₁₀₃, 4, 1, 0; 2000 CL₁₀₃, 4, 1, 0; 2000 CR₁₀₃, 4, 1, 0; 2000 CS₁₀₃, 7, 2, 84; 2000 CT₁₀₃, 4, 1, 0; 2000 CU₁₀₃, 8, 2, 24; 2000 CV₁₀₃, 4, 1, 0; 2000 CD₁₀₄, 8, 2, 8; 2000 CF₁₀₄, 4, 1, 0; 2000 CK₁₀₄, 11, 3, 90; 2000 CE₁₀₉, 4, 1, 0; 2000 CV₁₁₁, 4, 1, 0; 2000 DA₇, 7, 2, 85; 2000 DG₄, 1, 0; 2000 DO₄, 4, 1, 0; 2000 DP₄, 4, 1, 0; 2000 DQ₄, 4, 1, 0; 2000 DR₄, 4, 1, 0; 2000 DS₄, 4, 1, 0; 2000 DT₄, 4, 1, 0; 2000 DU₄, 4, 1, 0; 2000 DV₄, 4, 1, 0; 2000 DW₄, 4, 1, 0; 2000 DX₄, 4, 1, 0; 2000 DF₁, 8, 2, 12; 2000 DG₁, 4, 1, 0; 2000 DH₁, 4, 1, 0; 2000 DP₁, 4, 1, 0; 2000 DB₂, 8, 2, 12; 2000 DC₂, 4, 1, 0; 2000 DE₂, 8, 2, 12; 2000 DF₂, 4, 1, 0; 2000 DJ₂, 4, 1, 0; 2000 DL₂, 4, 1, 0; 2000 DM₂, 4, 1, 0; 2000 DQ₂, 4, 1, 0; 2000 DZ₂, 8, 1, 0; 2000 DA₃, 4, 1, 0; 2000 DB₃, 4, 1, 0; 2000 DG₃, 4, 1, 0; 2000 DJ₃, 4, 1, 0; 2000 DK₃, 4, 1, 0; 2000 DL₃, 7, 2, 82; 2000 DM₃, 4, 1, 0; 2000 DN₃, 8, 2, 12; 2000 DO₃, 4, 1, 0; 2000 DR₃, 4, 1, 0; 2000 DY₃, 4, 1, 0; 2000 DA₄, 4, 1, 0; 2000 DL₄, 3, 1, 0; 2000 DR₄, 3, 1, 0; 2000 DU₅, 4, 1, 0; 2000 DF₆, 4, 1, 0; 2000 DC₇, 3, 1, 0; 2000 DE₇, 4, 1, 0; 2000 DX₇, 4, 1, 0; 2000 DN₈, 4, 1, 0; 2000 DP₈, 8, 2, 8; 2000 DR₈, 7, 2, 58; 2000 DK₁₁, 8, 2, 12; 2000 DQ₁₁, 4, 1, 0; 2000 DU₁₁, 4, 1, 0; 2000 DX₁₁, 4, 1, 0; 2000 DH₁₂, 8, 2, 12; 2000 DL₁₃, 4, 1, 0; 2000 DJ₁₃, 4, 1, 0; 2000 DN₁₄, 4, 1, 0; 2000 DO₁₄, 4, 1, 0; 2000 DR₁₄, 4, 1, 0; 2000 DS₁₄, 4, 1, 0; 2000 DU₁₄, 7, 2, 84; 2000 DV₁₄, 4, 1, 0; 2000 DA₁₅, 4, 1, 0; 2000 DE₁₅, 4, 1, 0; 2000 DH₁₅, 8, 2, 22; 2000 DL₁₅, 4,

1, 0; 2000 DM₁₅, 4, 1, 0; 2000 DP₁₅, 12, 2, 22; 2000 DU₁₅, 4, 1, 0; 2000 DY₁₅, 8, 2, 7; 2000 DZ₁₅, 8, 2, 15; 2000 DB₁₆, 7, 2, 80; 2000 DC₁₆, 10, 3, 443; 2000 DD₁₆, 8, 2, 12; 2000 DE₁₆, 12, 3, 7; 2000 DF₁₆, 8, 2, 12; 2000 DG₁₆, 8, 2, 4; 2000 DH₁₆, 11, 3, 86; 2000 DJ₁₆, 12, 3, 10; 2000 DK₁₆, 12, 3, 4; 2000 DL₁₆, 14, 3, 448; 2000 DM₁₆, 12, 3, 10; 2000 DN₁₆, 8, 2, 10; 2000 DQ₁₆, 4, 1, 0; 2000 DD₁₇, 4, 1, 0; 2000 DH₁₇, 8, 2, 23; 2000 DJ₁₇, 4, 1, 0; 2000 DX₁₇, 3, 1, 0; 2000 DO₁₉, 4, 1, 0; 2000 DT₁₉, 4, 1, 0; 2000 DW₁₉, 3, 1, 0; 2000 DZ₂₅, 3, 1, 0; 2000 DA₂₇, 7, 2, 80; 2000 DS₂₉, 8, 2, 4; 2000 DQ₃₁, 4, 1, 0; 2000 DV₃₄, 4, 1, 0; 2000 DF₃₆, 4, 1, 0; 2000 DG₃₆, 4, 1, 0; 2000 DU₃₈, 4, 1, 0; 2000 DP₃₉, 4, 1, 0; 2000 DB₄₀, 4, 1, 0; 2000 DJ₄₀, 4, 1, 0; 2000 DK₄₀, 4, 1, 0; 2000 DR₄₀, 4, 1, 0; 2000 DD₄₁, 3, 1, 0; 2000 DL₄₂, 4, 1, 0; 2000 DV₄₂, 4, 1, 0; 2000 DO₄₃, 4, 1, 0; 2000 DX₄₃, 4, 1, 0; 2000 DP₄₅, 8, 2, 8; 2000 DY₄₅, 4, 1, 0; 2000 DB₄₆, 4, 1, 0; 2000 DA₄₇, 12, 3, 24; 2000 DK₅₀, 4, 1, 0; 2000 DK₅₁, 4, 1, 0; 2000 DW₅₁, 4, 1, 0; 2000 DE₅₂, 4, 1, 0; 2000 DE₅₂, 4, 1, 0; 2000 DL₅₂, 4, 1, 0; 2000 DH₅₃, 12, 2, 8; 2000 DL₅₃, 4, 1, 0; 2000 DS₅₃, 4, 1, 0; 2000 DW₅₃, 4, 1, 0; 2000 DL₅₄, 4, 1, 0; 2000 DO₅₄, 4, 1, 0; 2000 DP₅₄, 4, 1, 0; 2000 DE₅₅, 4, 1, 0; 2000 DK₅₅, 4, 1, 0; 2000 DM₅₅, 4, 1, 0; 2000 DF₅₆, 4, 1, 0; 2000 DG₅₆, 4, 1, 0; 2000 DH₅₆, 4, 1, 0; 2000 DA₅₇, 4, 1, 0; 2000 DG₅₇, 8, 2, 8; 2000 DQ₅₇, 4, 1, 0; 2000 DC₅₈, 4, 1, 0; 2000 DJ₅₈, 4, 1, 0; 2000 DK₅₈, 8, 2, 8; 2000 DN₅₈, 4, 1, 0; 2000 DR₅₈, 4, 1, 0; 2000 DT₅₈, 4, 1, 0; 2000 DU₅₈, 4, 1, 0; 2000 DZ₅₈, 4, 1, 0; 2000 DJ₅₉, 7, 2, 447; 2000 DU₅₉, 4, 1, 0; 2000 DW₅₉, 4, 1, 0; 2000 DY₅₉, 4, 1, 0; 2000 DZ₅₉, 4, 1, 0; 2000 DL₆₀, 4, 1, 0; 2000 DS₆₀, 4, 1, 0; 2000 DT₆₀, 4, 1, 0; 2000 DU₆₀, 4, 1, 0; 2000 DD₆₁, 4, 1, 0; 2000 DU₆₁, 4, 1, 0; 2000 DY₆₁, 4, 1, 0; 2000 DG₆₂, 4, 1, 0; 2000 DM₆₂, 4, 1, 0; 2000 DU₆₂, 7, 2, 525; 2000 DV₆₂, 4, 1, 0; 2000 DD₆₃, 4, 1, 0; 2000 DN₆₃, 4, 1, 0; 2000 DQ₆₃, 4, 1, 0; 2000 DX₆₃, 8, 2, 8; 2000 DH₆₄, 4, 1, 0; 2000 DW₆₄, 4, 1, 0; 2000 DC₆₅, 4, 1, 0; 2000 DK₆₅, 4, 1, 0; 2000 DU₆₆, 4, 1, 0; 2000 DX₆₆, 4, 1, 0; 2000 DH₆₇, 4, 1, 0; 2000 DK₆₈, 4, 1, 0; 2000 DP₆₈, 4, 1, 0; 2000 DU₆₈, 4, 1, 0; 2000 DV₆₈, 4, 1, 0; 2000 DA₆₉, 4, 1, 0; 2000 DC₆₉, 4, 1, 0; 2000 DF₆₉, 4, 1, 0; 2000 DH₆₉, 4, 1, 0; 2000 DK₆₉, 4, 1, 0; 2000 DG₆₉, 4, 1, 0; 2000 DM₇₀, 4, 1, 0; 2000 DQ₇₀, 4, 1, 0; 2000 DW₇₀, 4, 1, 0; 2000 DT₇₁, 4, 1, 0; 2000 DD₇₁, 4, 1, 0; 2000 DE₇₁, 4, 1, 0; 2000 DG₇₁, 3, 1, 0; 2000 DK₇₁, 4, 1, 0; 2000 DP₇₁, 4, 1, 0; 2000 DS₇₁, 4, 1, 0; 2000 DT₇₁, 4, 1, 0; 2000 DU₇₁, 4, 1, 0; 2000 DV₇₁, 4, 1, 0; 2000 DX₇₁, 4, 1, 0; 2000 DL₇₂, 4, 1, 0; 2000 DT₇₂, 4, 1, 0; 2000 DW₇₂, 4, 1, 0; 2000 DN₇₃, 8, 2, 22; 2000 DO₇₃, 4, 1, 0; 2000 DP₇₃, 4, 1, 0; 2000 DS₇₃, 4, 1, 0; 2000 DW₇₃, 4, 1, 0; 2000 DX₇₃, 4, 1, 0; 2000 DY₇₃, 4, 1, 0; 2000 DC₇₄, 4, 1, 0; 2000 DH₇₄, 4, 1, 0; 2000 DP₇₄, 4, 1, 0; 2000 DR₇₄, 4, 1, 0; 2000 DV₇₄, 10, 3, 556; 2000 DY₇₄, 4, 1, 0; 2000 DD₇₅, 4, 1, 0; 2000 DG₇₅, 8, 1, 0; 2000 DN₇₅, 4, 1, 0; 2000 DQ₇₅, 4, 1, 0; 2000 DR₇₅, 8, 2, 23; 2000 DB₇₆, 4, 1, 0; 2000 DM₇₆, 4, 1, 0; 2000 DO₇₆, 4, 1, 0; 2000 DF₇₇, 4, 1, 0; 2000 DO₇₇, 4, 1, 0; 2000 DA₇₈, 4, 1, 0; 2000 DD₇₈, 4, 1, 0; 2000 DL₇₈, 4, 1, 0; 2000 DU₇₈, 4, 1, 0; 2000 DB₇₉, 4, 1, 0; 2000 DF₇₉, 4, 1, 0; 2000 DK₇₉, 4, 1, 0; 2000 DN₇₉, 4, 1, 0; 2000 DV₈₀, 4, 1, 0; 2000 DD₈₁, 4, 1, 0; 2000 DA₈₂, 4, 1, 0; 2000 DB₈₂, 4, 1, 0; 2000 DX₈₂, 4, 1, 0; 2000 DB₈₃, 3, 1, 0; 2000 DM₈₃, 4, 1, 0; 2000 DZ₈₄, 4, 1, 0; 2000 DO₈₆, 4, 1, 0; 2000 DV₈₆, 3, 1, 0; 2000 DX₈₆, 7, 2, 84; 2000 DD₈₇, 7, 2, 84; 2000 DE₈₈, 4, 1, 0; 2000 DG₈₈, 4, 1, 0; 2000 DG₈₈, 4, 1, 0; 2000 DQ₈₈, 4, 1, 0; 2000 DC₉₂, 8, 2, 12; 2000 DD₉₂, 8, 2, 12; 2000 DF₉₂, 4, 1, 0; 2000 DL₉₂, 4, 1, 0; 2000 DM₉₂, 8, 2, 12; 2000 DN₉₂, 4, 1, 0; 2000 DG₉₄, 6, 2, 23; 2000 DH₉₄, 3, 1, 0; 2000 DS₉₄, 3, 1, 0; 2000 DA₉₅, 4, 1, 0; 2000 DU₉₇, 7, 2, 84; 2000 DW₉₇, 3, 1, 0; 2000 DJ₉₈, 4, 1, 0; 2000 DO₉₈, 4, 1, 0; 2000 DP₉₈, 4, 1, 0; 2000 DV₉₈, 4, 1, 0; 2000 DN₉₉, 10, 3, 560; 2000 DR₉₉, 4, 1, 0; 2000 DT₉₉, 4, 1, 0; 2000 DU₉₉, 4, 1, 0; 2000 DV₉₉, 4, 1, 0; 2000 DW<

[illegible][illegible]

2000 ES₁₃₉, 4, 1, 0; 2000 ET₁₃₉, 4, 1, 0; 2000 EU₁₃₉, 4, 1, 0; 2000 EV₁₃₉, 4, 1, 0; 2000 EW₁₃₉, 4, 1, 0; 2000 EX₁₃₉, 4, 1, 0; 2000 EY₁₃₉, 4, 1, 0; 2000 EB₁₄₀, 4, 1, 0; 2000 EC₁₄₀, 4, 1, 0; 2000 EK₁₄₀, 4, 1, 0; 2000 EA₁₄₁, 4, 1, 0; 2000 EL₁₄₁, 4, 1, 0; 2000 EA₁₄₁, 4, 1, 0; 2000 EO₁₄₁, 4, 1, 0; 2000 EQ₁₄₁, 4, 1, 0; 2000 ES₁₄₁, 4, 1, 0; 2000 ET₁₄₁, 8, 2, 7; 2000 EU₁₄₁, 8, 2, 3; 2000 EW₁₄₁, 4, 1, 0; 2000 EX₁₄₁, 4, 1, 0; 2000 EY₁₄₁, 8, 2, 23; 2000 EZ₁₄₁, 4, 1, 0; 2000 EA₁₄₄, 4, 1, 0; 2000 EB₁₄₄, 4, 1, 0; 2000 EC₁₄₄, 7, 2, 84; 2000 EW₁₄₄, 4, 1, 0; 2000 EX₁₄₄, 8, 2, 12; 2000 EZ₁₄₄, 4, 1, 0; 2000 EC₁₄₅, 8, 2, 12; 2000 EF₁₄₅, 4, 1, 0; 2000 EG₁₄₅, 4, 1, 0; 2000 EJ₁₄₅, 8, 2, 12; 2000 EK₁₄₅, 8, 2, 11; 2000 EL₁₄₅, 4, 1, 0; 2000 EO₁₄₅, 4, 1, 0; 2000 EQ₁₄₅, 8, 2, 10; 2000 EV₁₄₅, 4, 1, 0; 2000 EW₁₄₅, 4, 1, 0; 2000 EC₁₄₆, 4, 1, 0; 2000 EZ₁₄₆, 4, 1, 0; 2000 EG₁₄₇, 8, 2, 4; 2000 EH₁₄₇, 4, 1, 0; 2000 EJ₁₄₇, 3, 1, 0; 2000 EK₁₄₇, 8, 2, 3; 2000 EL₁₄₇, 16, 4, 10; 2000 EM₁₄₇, 8, 2, 3; 2000 EN₁₄₇, 12, 3, 4; 2000 EO₁₄₇, 12, 3, 4; 2000 EP₁₄₇, 8, 2, 4; 2000 ER₁₄₇, 4, 1, 0; 2000 ES₁₄₇, 12, 2, 4; 2000 ET₁₄₇, 12, 3, 10; 2000 EU₁₄₇, 12, 3, 10; 2000 EZ₁₄₇, 4, 1, 0; 2000 EA₁₄₈, 12, 3, 4; 2000 EB₁₄₈, 12, 3, 10; 2000 EC₁₄₈, 12, 3, 4; 2000 ED₁₄₈, 4, 1, 0; 2000 EE₁₄₈, 12, 3, 4; 2000 EF₁₄₈, 8, 2, 3; 2000 EH₁₄₈, 8, 2, 3; 2000 EJ₁₄₈, 12, 3, 10; 2000 EK₁₄₈, 12, 3, 10; 2000 EL₁₄₈, 16, 4, 10; 2000 EM₁₄₈, 19, 5, 87; 2000 EN₁₄₈, 4, 1, 0; 2000 EO₁₄₈, 12, 3, 7; 2000 EP₁₄₈, 12, 3, 10; 2000 EQ₁₄₈, 4, 1, 0; 2000 ER₁₄₈, 12, 3, 4; 2000 ES₁₄₈, 12, 3, 4; 2000 ET₁₄₈, 4, 1, 0; 2000 EU₁₄₈, 7, 2, 452; 2000 EV₁₄₈, 8, 2, 4; 2000 EX₁₄₈, 4, 1, 0; 2000 EZ₁₄₈, 4, 1, 0; 2000 EA₁₄₉, 4, 1, 0; 2000 EC₁₄₉, 4, 1, 0; 2000 ED₁₄₉, 4, 1, 0; 2000 EG₁₄₉, 4, 1, 0; 2000 EH₁₄₉, 4, 1, 0; 2000 EJ₁₄₉, 4, 1, 0; 2000 EK₁₄₉, 4, 1, 0; 2000 EL₁₄₉, 4, 1, 0; 2000 EM₁₄₉, 4, 1, 0; 2000 EN₁₄₉, 4, 1, 0; 2000 EP₁₄₉, 4, 1, 0; 2000 EQ₁₄₉, 4, 1, 0; 2000 ER₁₄₉, 4, 1, 0; 2000 EU₁₄₉, 4, 1, 0; 2000 EE₁₅₀, 4, 1, 0; 2000 EL₁₅₀, 4, 1, 0; 2000 EP₁₅₀, 8, 2, 22; 2000 ES₁₅₀, 12, 2, 22; 2000 ET₁₅₀, 4, 1, 0; 2000 EU₁₅₀, 4, 1, 0; 2000 EV₁₅₀, 4, 1, 0; 2000 EX₁₅₀, 4, 1, 0; 2000 EY₁₅₀, 8, 2, 12; 2000 EZ₁₅₀, 4, 1, 0; 2000 EA₁₅₁, 8, 2, 12; 2000 EB₁₅₁, 4, 1, 0; 2000 EC₁₅₁, 12, 3, 10; 2000 EE₁₅₁, 16, 4, 10; 2000 EF₁₅₁, 8, 2, 1; 2000 EG₁₅₁, 4, 1, 0; 2000 EH₁₅₁, 4, 1, 0; 2000 EN₁₅₁, 4, 1, 0; 2000 EO₁₅₁, 3, 1, 0; 2000 EF₁₅₂, 4, 1, 0; 2000 EJ₁₅₂, 4, 1, 0; 2000 EM₁₅₂, 4, 1, 0; 2000 EP₁₅₂, 4, 1, 0; 2000 EQ₁₅₂, 4, 1, 0; 2000 EA₁₅₃, 4, 1, 0; 2000 ED₁₅₃, 8, 2, 22; 2000 EE₁₅₃, 4, 1, 0; 2000 EJ₁₅₃, 4, 1, 0; 2000 EY₁₅₃, 8, 2, 27; 2000 EZ₁₅₃, 8, 2, 14; 2000 EK₁₅₄, 8, 2, 26; 2000 EN₁₅₄, 4, 1, 0; 2000 EO₁₅₄, 8, 2, 4; 2000 EP₁₅₄, 16, 4, 10; 2000 ER₁₅₄, 4, 1, 0; 2000 ES₁₅₄, 4, 1, 0; 2000 EV₁₅₄, 8, 2, 23; 2000 EW₁₅₄, 4, 1, 0; 2000 EX₁₅₄, 4, 1, 0; 2000 EY₁₅₄, 8, 2, 23; 2000 EA₁₅₅, 4, 1, 0; 2000 EB₁₅₅, 4, 1, 0; 2000 EC₁₅₅, 8, 2, 21; 2000 ED₁₅₅, 4, 1, 0; 2000 EE₁₅₅, 4, 1, 0; 2000 EF₁₅₅, 4, 1, 0; 2000 EG₁₅₅, 4, 1, 0; 2000 EH₁₅₅, 4, 1, 0; 2000 EJ₁₅₅, 4, 1, 0; 2000 EK₁₅₅, 4, 1, 0; 2000 EL₁₅₅, 8, 2, 21; 2000 EM₁₅₅, 4, 1, 0; 2000 EN₁₅₅, 4, 1, 0; 2000 EO₁₅₅, 4, 1, 0; 2000 EP₁₅₅, 4, 1, 0; 2000 EQ₁₅₅, 4, 1, 0; 2000 ER₁₅₅, 4, 1, 0; 2000 ES₁₅₅, 4, 1, 0; 2000 ET₁₅₅, 4, 1, 0; 2000 EU₁₅₅, 4, 1, 0; 2000 EV₁₅₅, 4, 1, 0; 2000 EX₁₅₅, 4, 1, 0; 2000 EY₁₅₅, 8, 2, 21; 2000 EZ₁₅₅, 4, 1, 0; 2000 EA₁₅₆, 4, 1, 0; 2000 EB₁₅₆, 4, 1, 0; 2000 EC₁₅₆, 4, 1, 0; 2000 ED₁₅₆, 4, 1, 0; 2000 EE₁₅₆, 4, 1, 0; 2000 EF₁₅₆, 4, 1, 0; 2000 EG₁₅₆, 7, 2, 61; 2000 EH₁₅₆, 4, 1, 0; 2000 EJ₁₅₆, 4, 1, 0; 2000 EK₁₅₆, 4, 1, 0; 2000 EL₁₅₆, 4, 1, 0; 2000 EM₁₅₆, 4, 1, 0; 2000 EN₁₅₆, 4, 1, 0; 2000 EO₁₅₆, 4, 1, 0; 2000 EP₁₅₆, 4, 1, 0; 2000 EQ₁₅₆, 4, 1, 0; 2000 ER₁₅₆, 4, 1, 0; 2000 ES₁₅₆, 4, 1, 0; 2000 ET₁₅₆, 4, 1, 0; 2000 EU₁₅₆, 4, 1, 0; 2000 EV₁₅₆, 4, 1, 0; 2000 EW₁₅₆, 4, 1, 0; 2000 EX₁₅₆, 4, 1, 0; 2000 EY₁₅₆, 4, 1, 0; 2000 EZ₁₅₆, 4, 1, 0; 2000 EA₁₅₇, 4, 1, 0; 2000 EB₁₅₇, 4, 1, 0; 2000 EC₁₅₇, 4, 1, 0; 2000 ED₁₅₇, 4, 1, 0; 2000 EE₁₅₇, 4, 1, 0; 2000 EF₁₅₇, 4, 1, 0; 2000 EG₁₅₇, 4, 1, 0; 2000 EH₁₅₇, 4, 1, 0; 2000 EJ₁₅₇, 4, 1, 0; 2000 EK₁₅₇, 4, 1, 0; 2000 EL₁₅₇, 4, 1, 0; 2000 EM₁₅₇, 4, 1, 0; 2000 EN₁₅₇, 4, 1, 0; 2000 EO₁₅₇, 8, 1, 0; 2000 EP₁₅₇, 4, 1, 0; 2000 EQ₁₅₇, 4, 1, 0; 2000 ER₁₅₇, 4, 1, 0; 2000 ES₁₅₇, 4, 1, 0; 2000 ET₁₅₇, 8, 1, 0; 2000 EU₁₅₇, 8, 2, 26; 2000 EV₁₅₇, 4, 1, 0; 2000 EW₁₅₇, 4, 1, 0; 2000 EX₁₅₇, 8, 2, 26; 2000 EY₁₅₇, 4, 1, 0; 2000 EZ₁₅₇, 4, 1, 0; 2000 EA₁₅₈, 4, 1, 0; 2000 EB₁₅₈, 4, 1, 0; 2000 EC₁₅₈, 4, 1, 0; 2000 ED₁₅₈, 4, 1, 0; 2000 EE₁₅₈, 4, 1, 0; 2000 EF₁₅₈, 4, 1, 0; 2000 EG₁₅₈, 4, 1, 0; 2000 EH₁₅₈, 4, 1, 0; 2000 EJ₁₅₈, 4, 1, 0; 2000 EK₁₅₈, 4, 1, 0; 2000 EL₁₅₈, 4, 1, 0; 2000 EM₁₅₈, 4, 1, 0; 2000 EN₁₅₈, 4, 1, 0; 2000 EO₁₅₈, 4, 1, 0; 2000 EP₁₅₈, 4, 1, 0; 2000 EQ₁₅₈, 4, 1, 0; 2000 ER₁₅₈, 4, 1, 0; 2000 ES₁₅₈, 4, 1, 0; 2000 ET₁₅₈, 4, 1, 0; 2000 EU₁₅₈, 4, 1, 0; 2000 EV₁₅₈, 4, 1, 0; 2000 EW₁₅₈, 4, 1, 0; 2000 EX₁₅₈, 4, 1, 0; 2000 EY₁₅₈, 4, 1, 0; 2000 EZ₁₅₈, 4, 1, 0; 2000 EA₁₆₃, 4, 1, 0; 2000 EL₁₆₃, 4, 1, 0; 2000 EG₁₆₃, 4, 1, 0; 2000 EH₁₆₄, 4, 1, 0; 2000 EA₁₆₅, 4, 1, 0; 2000 EB₁₆₅, 4, 1, 0; 2000 EC₁₆₅, 8, 2, 22; 2000 ED₁₆₅, 8, 1, 0; 2000 EL₁₆₅, 4, 1, 0; 2000 EN₁₆₅, 4, 1, 0; 2000 EO₁₆₅, 4, 1, 0; 2000 ER₁₆₅, 4, 1, 0; 2000 ES₁₆₅, 4, 1, 0; 2000 ET₁₆₅, 4, 1, 0; 2000 EW₁₆₈, 4, 1, 0; 2000 EU₁₇₀, 4, 1, 0; 2000 EZ₁₇₀, 4, 1, 0; 2000 EC₁₇₁, 4, 1, 0; 2000 EZ₁₇₁, 4, 1, 0; 2000 EB₁₇₂, 8, 2, 12; 2000 EG₁₇₂, 4, 1, 0; 2000 EJ₁₇₂, 8, 2, 11; 2000 FE₄, 1, 0; 2000 FE₄, 1, 0; 2000 FR₄, 4, 1, 0; 2000 FX₄, 4, 1, 0; 2000 FE₁, 4, 1, 0; 2000 FF₁, 4, 1, 0; 2000 FG₁, 4, 1, 0; 2000 FH₁, 4, 1, 0; 2000 FQ₁, 12, 3, 4; 2000 FA₂, 8, 2, 10; 2000 FD₂, 4, 1, 0; 2000 FE₂, 8, 2, 10; 2000 FF₂, 4, 1, 0; 2000 FH₂, 4, 1, 0; 2000 FK₂, 4, 1, 0; 2000 FM₂, 8, 2, 1; 2000 FN₂, 8, 2, 1; 2000 FW₂, 4, 1, 0; 2000 FY₂, 4, 1, 0; 2000 FA₃, 4, 1, 0; 2000 FD₃, 4, 1, 0; 2000 FG₃, 4, 1, 0; 2000 FH₃, 4, 1, 0; 2000 FM₃, 4, 1, 0; 2000 FP₃, 4, 1, 0; 2000 FH₄, 12, 3, 4; 2000 FS₄, 8, 2, 3; 2000 FV₄, 8, 2, 4; 2000 FX₄, 4, 1, 0; 2000 FD₅, 8, 2, 2; 2000 FE₅, 4, 1, 0; 2000 FG₅, 4, 1, 0; 2000 FH₅, 8, 2, 2; 2000 FJ₅, 17, 5, 559; 2000 FO₅, 4, 1, 0; 2000 FR₅, 4, 1, 0; 2000 FV₅, 4, 1, 0; 2000 FX₅, 8, 2, 10; 2000 FB₆, 4, 1, 0; 2000 FC₆, 4, 1, 0; 2000 FK₆, 4, 1, 0; 2000 FL₆, 8, 2, 4; 2000 FN₆, 8, 2, 4; 2000 FR₆, 4, 1, 0; 2000 FS₆, 12, 3, 10; 2000 FQ₇, 4, 1, 0; 2000 FR₇, 4, 1, 0; 2000 FT₇, 12, 3, 4; 2000 FW₇, 4, 1, 0; 2000 FZ₇, 8, 2, 3; 2000 FJ₈, 12, 3, 10; 2000 FK₈, 4, 1, 0; 2000 FM₈, 8, 2, 12; 2000 FP₈, 12, 3,

10; 2000 FQ₈, 8, 2, 10; 2000 FV₈, 4, 1, 0; 2000 FQ₉, 8, 2, 12; 2000 FV₉, 4, 1, 0; 2000 FW₉, 4, 1, 0; 2000 FZ₉, 4, 1, 0; 2000 FA₁₀, 4, 1, 0; 2000 FC₁₀, 4, 1, 0; 2000 FD₁₀, 12, 3, 5; 2000 FG₁₀, 4, 1, 0; 2000 FK₁₀, 4, 1, 0; 2000 FL₁₀, 4, 1, 0; 2000 FT₁₀, 4, 1, 0; 2000 FW₁₀, 4, 1, 0; 2000 FB₁₁, 8, 2, 4; 2000 FC₁₁, 3, 1, 0; 2000 FW₁₁, 4, 1, 0; 2000 FH₁₂, 4, 1, 0; 2000 FK₁₂, 4, 1, 0; 2000 FQ₁₂, 4, 1, 0; 2000 FU₁₂, 4, 1, 0; 2000 FW₁₂, 4, 1, 0; 2000 FJ₁₃, 4, 1, 0; 2000 FU₁₄, 4, 1, 0; 2000 FV₁₄, 12, 3, 10; 2000 FA₁₅, 4, 1, 0; 2000 FB₁₅, 4, 1, 0; 2000 FE₁₅, 4, 1, 0; 2000 FH₁₅, 4, 1, 0; 2000 FJ₁₅, 8, 2, 4; 2000 FK₁₅, 4, 1, 0; 2000 FL₁₅, 8, 2, 2; 2000 FM₁₅, 4, 1, 0; 2000 FN₁₅, 4, 1, 0; 2000 FP₁₅, 4, 1, 0; 2000 FT₁₅, 4, 1, 0; 2000 FV₁₅, 6, 2, 23; 2000 FJ₁₆, 4, 1, 0; 2000 FK₁₆, 8, 2, 12; 2000 FM₁₆, 8, 2, 12; 2000 FO₁₆, 8, 2, 12; 2000 FY₁₆, 4, 1, 0; 2000 FZ₁₆, 8, 2, 12; 2000 FA₁₇, 4, 1, 0; 2000 FB₁₇, 4, 1, 0; 2000 FC₁₇, 4, 1, 0; 2000 FD₁₇, 11, 3, 478; 2000 FF₁₇, 4, 1, 0; 2000 FG₁₇, 4, 1, 0; 2000 FH₁₇, 4, 1, 0; 2000 FJ₁₇, 4, 1, 0; 2000 FK₁₇, 7, 2, 498; 2000 FM₁₇, 4, 1, 0; 2000 FN₁₇, 4, 1, 0; 2000 FP₁₇, 4, 1, 0; 2000 FQ₁₇, 4, 1, 0; 2000 FT₁₉, 4, 1, 0; 2000 FV₁₉, 4, 1, 0; 2000 FE₂₀, 4, 1, 0; 2000 FH₂₀, 13, 4, 502; 2000 FK₂₀, 4, 1, 0; 2000 FL₂₀, 8, 2, 12; 2000 FN₂₀, 8, 2, 12; 2000 FO₂₀, 4, 1, 0; 2000 FP₂₀, 4, 1, 0; 2000 FQ₂₀, 4, 1, 0; 2000 FR₂₀, 7, 2, 448; 2000 FS₂₀, 8, 2, 12; 2000 FU₂₀, 4, 1, 0; 2000 FV₂₀, 4, 1, 0; 2000 FW₂₀, 4, 1, 0; 2000 FX₂₀, 4, 1, 0; 2000 FU₂₁, 4, 1, 0; 2000 FZ₂₁, 4, 1, 0; 2000 FA₂₂, 4, 1, 0; 2000 FB₂₂, 8, 2, 12; 2000 FD₂₂, 4, 1, 0; 2000 FF₂₂, 4, 1, 0; 2000 FJ₂₂, 4, 1, 0; 2000 FO₂₂, 4, 1, 0; 2000 FQ₂₂, 4, 1, 0; 2000 FS₂₂, 8, 2, 1; 2000 FT₂₂, 8, 2, 6; 2000 FU₂₂, 4, 1, 0; 2000 FV₂₂, 4, 1, 0; 2000 FY₂₂, 4, 1, 0; 2000 FZ₂₂, 4, 1, 0; 2000 FA₂₃, 4, 1, 0; 2000 FE₂₃, 8, 1, 0; 2000 FF₂₃, 4, 1, 0; 2000 FG₂₃, 4, 1, 0; 2000 FH₂₃, 4, 1, 0; 2000 FJ₂₃, 4, 1, 0; 2000 FK₂₃, 4, 1, 0; 2000 FQ₂₃, 4, 1, 0; 2000 FU₂₃, 4, 1, 0; 2000 FV₂₃, 4, 1, 0; 2000 FY₂₃, 4, 1, 0; 2000 FE₂₄, 4, 1, 0; 2000 FF₂₄, 8, 2, 23; 2000 FJ₂₄, 4, 1, 0; 2000 FM₂₄, 4, 1, 0; 2000 FA₂₅, 4, 1, 0; 2000 FD₂₅, 8, 2, 6; 2000 FG₂₅, 12, 3, 22; 2000 FH₂₅, 8, 2, 7; 2000 FJ₂₅, 8, 2, 7; 2000 FK₂₅, 8, 2, 7; 2000 FL₂₅, 12, 3, 10; 2000 FM₂₅, 8, 2, 6; 2000 FN₂₅, 12, 3, 11; 2000 FO₂₅, 8, 2, 6; 2000 FP₂₅, 8, 2, 6; 2000 FQ₂₅, 25, 7, 441; 2000 FR₂₅, 12, 3, 11; 2000 FS₂₅, 23, 6, 453; 2000 FT₂₅, 12, 3, 10; 2000 FU₂₅, 12, 3, 7; 2000 FV₂₅, 8, 2, 6; 2000 FW₂₅, 12, 3, 7; 2000 FX₂₅, 8, 2, 6; 2000 FY₂₅, 8, 2, 6; 2000 FZ₂₅, 16, 4, 10; 2000 FA₂₆, 12, 3, 10; 2000 FB₂₆, 12, 3, 10; 2000 FC₂₆, 16, 4, 10; 2000 FD₂₆, 16, 3, 10; 2000 FE₂₆, 16, 4, 10; 2000 FF₂₆, 16, 4, 10; 2000 FG₂₆, 8, 2, 6; 2000 FH₂₆, 12, 3, 10; 2000 FJ₂₆, 8, 2, 6; 2000 FK₂₆, 8, 2, 6; 2000 FL₂₆, 8, 2, 6; 2000 FM₂₆, 8, 2, 6; 2000 FN₂₆, 12, 3, 11; 2000 FO₂₆, 16, 4, 10; 2000 FP₂₆, 12, 3, 10; 2000 FQ₂₆, 8, 2, 6; 2000 FR₂₆, 8, 2, 6; 2000 FS₂₆, 16, 4, 10; 2000 FT₂₆, 16, 4, 10; 2000 FU₂₆, 12, 3, 10; 2000 FV₂₆, 8, 2, 6; 2000 FW₂₆, 12, 3, 10; 2000 FX₂₆, 20, 5, 11; 2000 FY₂₆, 16, 4, 11; 2000 FZ₂₆, 12, 3, 10; 2000 FA₂₇, 20, 5, 11; 2000 FB₂₇, 16, 4, 11; 2000 FC₂₇, 16, 4, 11; 2000 FD₂₇, 12, 3, 10; 2000 FE₂₇, 20, 5, 11; 2000 FG₂₇, 12, 3, 10; 2000 FH₂₇, 12, 3, 10; 2000 FJ₂₇, 8, 2, 6; 2000 FK₂₇, 12, 3, 10; 2000 FL₂₇, 12, 3, 10; 2000 FM₂₇, 16, 4, 10; 2000 FN₂₇, 12, 3, 7; 2000 FO₂₇, 8, 2, 6; 2000 FP₂₇, 12, 3, 10; 2000 FQ₂₇, 8, 2, 6; 2000 FR₂₇, 8, 2, 6; 2000 FS₂₇, 8, 2, 6; 2000 FT₂₇, 12, 3, 10; 2000 FU₂₇, 8, 2, 6; 2000 FV₂₇, 12, 3, 10; 2000 FW₂₇, 12, 3, 10; 2000 FX₂₇, 8, 2, 6; 2000 FY₂₇, 16, 4, 10; 2000 FZ₂₇, 8, 2, 6; 2000 FA₂₈, 12, 3, 10; 2000 FB₂₈, 16, 4, 10; 2000 FC₂₈, 16, 3, 10; 2000 FD₂₈, 12, 3, 7; 2000 FE₂₈, 12, 3, 10; 2000 FF₂₈, 8, 2, 6; 2000 FG₂₈, 8, 2, 6; 2000 FH₂₈, 12, 3, 10; 2000 FJ₂₈, 12, 3, 10; 2000 FK₂₈, 15, 4, 86; 2000 FL₂₈, 8, 2, 6; 2000 FM₂₈, 12, 3, 10; 2000 FN₂₈, 16, 4, 10; 2000 FO₂₈, 12, 3, 10; 2000 FP₂₈, 12, 3, 7; 2000 FQ₂₈, 16, 4, 10; 2000 FR₂₈, 12, 3, 10; 2000 FS₂₈, 8, 2, 6; 2000 FT₂₈, 12, 3, 10; 2000 FU₂₈, 8, 2, 6; 2000 FV₂₈, 12, 3, 10; 2000 FW₂₈, 12, 3, 10; 2000 FX₂₈, 16, 3, 10; 2000 FY₂₈, 8, 2, 6; 2000 FZ₂₈, 16, 4, 10; 2000 FA₂₉, 16, 3, 7; 2000 FB₂₉, 16, 3, 10; 2000 FC₂₉, 12, 3, 7; 2000 FD₂₉, 8, 2, 6; 2000 FE₂₉, 8, 2, 6; 2000 FF₂₉, 8, 2, 6; 2000 FG₂₉, 8, 2, 6; 2000 FH₂₉, 12, 3, 10; 2000 FJ₂₉, 12, 3, 10; 2000 FK₂₉,

2000 APR. 18

M.P.C. 39747

0; 2000 FO₃₅, 4, 1, 0; 2000 FP₃₅, 4, 1, 0; 2000 FQ₃₅, 4, 1, 0; 2000 FS₃₅, 4, 1, 0; 2000 FU₃₅, 4, 1, 0; 2000 FZ₃₅, 4, 1, 0; 2000 FA₃₆, 4, 1, 0; 2000 FD₃₆, 4, 1, 0; 2000 FE₃₆, 4, 1, 0; 2000 FF₃₆, 8, 2, 1; 2000 FH₃₆, 4, 1, 0; 2000 FK₃₆, 8, 2, 4; 2000 FL₃₆, 4, 1, 0; 2000 FM₃₆, 8, 2, 10; 2000 FN₃₆, 12, 3, 10; 2000 FO₃₆, 8, 2, 4; 2000 FP₃₆, 12, 3, 4; 2000 FQ₃₆, 8, 2, 4; 2000 FR₃₆, 4, 1, 0; 2000 FS₃₆, 16, 4, 11; 2000 FT₃₆, 8, 2, 4; 2000 FU₃₆, 12, 3, 5; 2000 FV₃₆, 4, 1, 0; 2000 FW₃₆, 4, 1, 0; 2000 FX₃₆, 12, 3, 4; 2000 FY₃₆, 8, 2, 4; 2000 FZ₃₆, 8, 2, 10; 2000 FA₃₇, 16, 4, 10; 2000 FB₃₇, 8, 2, 4; 2000 FC₃₇, 4, 1, 0; 2000 FD₃₇, 4, 1, 0; 2000 FE₃₇, 4, 1, 0; 2000 FF₃₇, 4, 1, 0; 2000 FG₃₇, 4, 1, 0; 2000 FH₃₇, 4, 1, 0; 2000 FJ₃₇, 8, 2, 7; 2000 FK₃₇, 4, 1, 0; 2000 FL₃₇, 4, 1, 0; 2000 FM₃₇, 4, 1, 0; 2000 FN₃₇, 4, 1, 0; 2000 FO₃₇, 4, 1, 0; 2000 FQ₃₇, 4, 1, 0; 2000 FR₃₇, 4, 1, 0; 2000 FS₃₇, 8, 2, 1; 2000 FT₃₇, 8, 2, 1; 2000 FU₃₇, 8, 2, 23; 2000 FV₃₇, 4, 1, 0; 2000 FW₃₇, 8, 2, 22; 2000 FY₃₇, 4, 1, 0; 2000 FZ₃₇, 4, 1, 0; 2000 FA₃₈, 4, 1, 0; 2000 FB₃₈, 4, 1, 0; 2000 FD₃₈, 8, 2, 1; 2000 FE₃₈, 8, 2, 1; 2000 FF₃₈, 4, 1, 0; 2000 FG₃₈, 11, 3, 92; 2000 FJ₃₈, 12, 3, 10; 2000 FK₃₈, 8, 2, 1; 2000 FL₃₈, 8, 2, 3; 2000 FM₃₈, 12, 3, 4; 2000 FO₃₈, 12, 3, 4; 2000 FP₃₈, 4, 1, 0; 2000 FQ₃₈, 8, 2, 4; 2000 FR₃₈, 4, 1, 0; 2000 FS₃₈, 8, 2, 4; 2000 FT₃₈, 8, 2, 4; 2000 FU₃₈, 12, 3, 4; 2000 FV₃₈, 4, 1, 0; 2000 FW₃₈, 4, 1, 0; 2000 FX₃₈, 4, 1, 0; 2000 FY₃₈, 4, 1, 0; 2000 FA₃₉, 4, 1, 0; 2000 FB₃₉, 8, 2, 4; 2000 FC₃₉, 4, 1, 0; 2000 FD₃₉, 4, 1, 0; 2000 FE₃₉, 8, 2, 4; 2000 FJ₃₉, 4, 1, 0; 2000 FM₃₉, 4, 1, 0; 2000 FN₃₉, 4, 1, 0; 2000 FO₃₉, 4, 1, 0; 2000 FQ₃₉, 4, 1, 0; 2000 FR₃₉, 4, 1, 0; 2000 FS₃₉, 4, 1, 0; 2000 FU₃₉, 4, 1, 0; 2000 FV₃₉, 10, 3, 465; 2000 FX₃₉, 4, 1, 0; 2000 FY₃₉, 8, 2, 1; 2000 FA₄₀, 4, 1, 0; 2000 FD₄₀, 4, 1, 0; 2000 FF₄₀, 4, 1, 0; 2000 FH₄₀, 8, 2, 1; 2000 FJ₄₀, 8, 2, 1; 2000 FK₄₀, 4, 1, 0; 2000 FL₄₀, 4, 1, 0; 2000 FM₄₀, 4, 1, 0; 2000 FN₄₀, 4, 1, 0; 2000 FO₄₀, 4, 1, 0; 2000 FQ₄₀, 4, 1, 0; 2000 FX₄₀, 4, 1, 0; 2000 FA₄₁, 4, 1, 0; 2000 FD₄₁, 4, 1, 0; 2000 FE₄₁, 4, 1, 0; 2000 FH₄₁, 4, 1, 0; 2000 FJ₄₁, 4, 1, 0; 2000 FL₄₁, 4, 1, 0; 2000 FM₄₁, 4, 1, 0; 2000 FN₄₁, 4, 1, 0; 2000 FO₄₁, 8, 1, 0; 2000 FP₄₁, 4, 1, 0; 2000 FR₄₁, 4, 1, 0; 2000 FT₄₁, 4, 1, 0; 2000 FU₄₁, 8, 2, 4; 2000 FV₄₁, 8, 2, 1; 2000 FW₄₁, 4, 1, 0; 2000 FX₄₁, 4, 1, 0; 2000 FY₄₁, 4, 1, 0; 2000 FZ₄₁, 8, 2, 4; 2000 FJ₄₂, 8, 2, 5; 2000 FK₄₂, 8, 2, 3; 2000 FM₄₂, 4, 1, 0; 2000 FT₄₂, 4, 1, 0; 2000 FV₄₂, 4, 1, 0; 2000 FW₄₂, 8, 2, 12; 2000 FX₄₂, 8, 2, 12; 2000 FZ₄₂, 4, 1, 0; 2000 FB₄₃, 8, 2, 12; 2000 FD₄₃, 4, 1, 0; 2000 FE₄₃, 4, 1, 0; 2000 FH₄₃, 4, 1, 0; 2000 FJ₄₃, 4, 1, 0; 2000 FK₄₃, 4, 1, 0; 2000 FT₄₃, 4, 1, 0; 2000 FY₄₃, 4, 1, 0; 2000 FF₄₄, 4, 1, 0; 2000 FG₄₄, 4, 1, 0; 2000 FH₄₄, 4, 1, 0; 2000 FJ₄₄, 4, 1, 0; 2000 FK₄₄, 8, 2, 12; 2000 FL₄₄, 8, 2, 12; 2000 FN₄₄, 8, 2, 12; 2000 FO₄₄, 4, 1, 0; 2000 FP₄₄, 4, 1, 0; 2000 FQ₄₄, 4, 1, 0; 2000 FR₄₄, 8, 2, 12; 2000 FS₄₄, 4, 1, 0; 2000 FT₄₄, 4, 1, 0; 2000 FU₄₄, 4, 1, 0; 2000 FV₄₄, 4, 1, 0; 2000 FW₄₄, 4, 1, 0; 2000 FX₄₄, 8, 2, 12; 2000 FB₄₅, 4, 1, 0; 2000 FD₄₅, 4, 1, 0; 2000 FO₄₅, 8, 2, 1; 2000 FS₄₅, 8, 2, 22; 2000 FU₄₅, 4, 1, 0; 2000 FD₄₆, 4, 1, 0; 2000 FK₄₆, 4, 1, 0; 2000 FL₄₆, 4, 1, 0; 2000 FO₄₆, 8, 2, 4; 2000 FP₄₆, 4, 1, 0; 2000 FQ₄₆, 4, 1, 0; 2000 FR₄₆, 4, 1, 0; 2000 FB₄₇, 4, 1, 0; 2000 FD₄₇, 4, 1, 0; 2000 FG₄₇, 4, 1, 0; 2000 FL₄₇, 4, 1, 0; 2000 FF₄₈, 8, 2, 1; 2000 FM₄₈, 4, 1, 0; 2000 FX₄₈, 4, 1, 0; 2000 FG₄₉, 12, 3, 10; 2000 FD₅₀, 4, 1, 0; 2000 FH₅₀, 4, 1, 0; 2000 FJ₅₀, 4, 1, 0; 2000 FK₅₀ *, 8, 2, 7; 2000 FL₅₀ *, 8, 2, 7; 2000 FM₅₀ *, 8, 2, 7; 2000 GB₈, 2, 3; 2000 GD₁₂, 3, 4; 2000 GF₄, 1, 0; 2000 GH₄, 4, 1, 0; 2000 GJ₄, 4, 1, 0; 2000 GK₄, 4, 1, 0; 2000 GL₄, 4, 1, 0; 2000 GM₄, 4, 1, 0; 2000 GP₄, 4, 1, 0; 2000 GQ₈, 2, 3; 2000 GV₄, 4, 1, 0; 2000 GW₄, 4, 1, 0; 2000 GY₈, 2, 3; 2000 GE₁, 4, 1, 0; 2000 GH₁, 12, 3, 5; 2000 GL₁, 8, 2, 22; 2000 GN₁, 4, 1, 0; 2000 GP₁, 8, 2, 3; 2000 GT₁, 4, 1, 0; 2000 GX₁, 4, 1, 0; 2000 GY₁, 8, 2, 4; 2000 GZ₁, 3, 1, 0; 2000 GA₂ *, 16, 4, 5; 2000 GE₂, 8, 2, 2; 2000 GM₂, 8, 2, 2; 2000 GP₂, 4, 1, 0; 2000 GS₂, 8, 2, 3; 2000 GX₂, 4, 1, 0; 2000 GB₃, 4, 1, 0; 2000 GF₃, 4, 1, 0; 2000 GG₃, 4, 1, 0; 2000 GH₃, 4, 1, 0; 2000 GJ₃, 8, 2, 3; 2000 GL₃, 4, 1, 0; 2000 GM₃, 4, 1, 0; 2000 GO₃, 4, 1, 0; 2000 GP₃, 8, 2, 2; 2000 GR₃, 4, 1, 0; 2000 GW₃, 4, 1, 0; 2000 GB₄, 4, 1, 0; 2000 GD₄, 4, 1, 0; 2000 GE₄, 8, 2, 2; 2000 GL₄, 4, 1, 0; 2000 GM₄, 4, 1, 0; 2000 GN₄, 4, 1, 0; 2000 GO₄, 4, 1, 0; 2000 GP₄, 4, 1, 0; 2000 GR₄, 4, 1, 0; 2000 GS₄, 4, 1, 0; 2000 GT₄, 4, 1, 0; 2000 GV₄, 8, 2, 10; 2000 GW₄, 4, 1, 0; 2000 GX₄, 4, 1, 0; 2000 GZ₄, 4, 1, 0; 2000 GG₅, 8, 2, 10; 2000 GH₅, 8, 2, 3; 2000 GJ₅, 12, 3, 10; 2000 GV₅, 4, 1, 0; 2000 GY₅, 4, 1, 0; 2000 GC₆, 4, 1, 0; 2000 GE₆, 4, 1, 0; 2000 GF₆, 4, 1, 0; 2000 GG₆, 4, 1, 0; 2000 GJ₆, 8, 1, 0; 2000 GK₆, 8, 2, 4; 2000 GL₆, 8, 2, 3; 2000 GM₆, 12, 3, 4; 2000 GN₆, 4, 1, 0; 2000 GO₆, 8, 12, 3, 4; 2000 GP₆, 4, 1, 0; 2000 GQ₆, 4, 1, 0; 2000 GR₆, 8, 2, 1; 2000 GT₆, 8, 2, 1; 2000 GV₆, 4, 1, 0; 2000 GB₇, 8, 2, 3; 2000 GD₇, 4, 1, 0; 2000 GE₇, 8, 2, 4; 2000 GF₇, 4, 1, 0; 2000 GG₇, 4, 1, 0; 2000 GM₇, 8, 2, 1; 2000 GN₇, 4, 1, 0; 2000 GO₇, 8, 2, 2; 2000 GP₇, 8, 2, 2; 2000 GQ₇ *, 8, 2, 3; 2000 GS₇, 4, 1, 0; 2000 GT₇, 4, 1, 0; 2000 GV₇, 8, 2, 2; 2000 GW₇, 8, 2, 2; 2000 GX₇, 4, 1, 0; 2000 GY₇, 8, 2, 2; 2000 GZ₇, 8, 2, 2; 2000 GO₈, 4, 1, 0; 2000 GX₈, 4, 1, 0; 2000 GH₉, 4, 1, 0; 2000 GJ₁₀, 4, 1, 0; 2000 GT₁₀, 4, 1, 0; 2000 GW₁₀, 4, 1, 0; 2000 GR₁₁, 4, 1, 0; 2000 GU₁₁, 4, 1, 0; 2000 GY₁₁, 12, 2, 3; 2000 GD₁₂, 4, 1, 0; 2000 GM₁₂, 4, 1, 0; 2000 GS₁₂, 4, 1, 0; 2000 GB₁₃, 4, 1, 0; 2000 GC₁₃, 4, 1, 0; 2000 GN₁₃, 4, 1, 0; 2000 GQ₁₃, 8, 2, 12; 2000 GA₁₄, 4, 1, 0; 2000 GC₁₄, 4, 1, 0; 2000 GH₁₄, 4, 1, 0; 2000 GM₁₄, 4, 1, 0; 2000 GZ₁₄, 4, 1, 0; 2000 GB₁₅, 4, 1, 0; 2000 GF₁₅, 4, 1, 0; 2000 GN₁₅, 4, 1, 0; 2000 GP₁₅, 12, 2, 11; 2000 GR₁₅, 4, 1, 0; 2000 GX₁₅, 4, 1, 0; 2000 GY₁₅, 4, 1, 0; 2000 GZ₁₅, 4, 1, 0; 2000 GA₁₆, 4, 1, 0; 2000 GB₁₆, 4, 1, 0; 2000 GJ₁₆, 4, 1, 0; 2000 GN₁₆, 8, 2, 3; 2000 GO₁₆, 4, 1, 0; 2000 GV₁₆, 12, 3, 4; 2000 GZ₁₆, 4, 1, 0; 2000 GB₁₇, 4, 1, 0; 2000 GC₁₇, 8, 2, 4; 2000 GD₁₇, 4, 1, 0; 2000 GE₁₇, 4, 1, 0; 2000 GF₁₇, 4, 1, 0; 2000 GG₁₇, 4, 1, 0; 2000 GO₁₇, 4, 1, 0; 2000 GY₁₇, 4, 1, 0; 2000 GZ₁₇, 4, 1, 0; 2000 GA₁₈, 4, 1, 0; 2000 GC₁₈, 4, 1, 0; 2000 GL₁₈, 4, 1, 0; 2000 GO₁₈, 4, 1, 0; 2000 GP₁₈, 4, 1, 0; 2000 GS₁₈, 4, 1, 0; 2000 GX₁₈, 4, 1, 0; 2000 GN₁₉, 4, 1, 0; 2000 GE₁₉, 4, 1, 0; 2000 GG₁₉, 4, 1, 0; 2000 GH₁₉, 8, 1, 0; 2000 GN₁₉, 4, 1, 0; 2000 GO₁₉, 12, 3, 4; 2000 GQ₁₉, 4, 1, 0; 2000 GT₁₉, 4, 1, 0; 2000 GZ₁₉, 4, 1, 0; 2000 GA₂₀, 4, 1, 0; 2000 GB₂₀, 4, 1, 0; 2000 GD₂₀, 4, 1, 0; 2000 GF₂₀, 4, 1, 0; 2000 GK₂₀, 16, 4,

5; 2000 GO₂₀, 4, 1, 0; 2000 GP₂₀, 4, 1, 0; 2000 GT₂₀, 4, 1, 0; 2000 GU₂₀, 4, 1, 0; 2000 GZ₂₀, 4, 1, 0; 2000 GA₂₁, 8, 2, 4; 2000 GB₂₁, 4, 1, 0; 2000 GC₂₁, 12, 3, 4; 2000 GD₂₁, 4, 1, 0; 2000 GH₂₁, 4, 1, 0; 2000 GK₂₁, 4, 1, 0; 2000 GO₂₁, 4, 1, 0; 2000 GP₂₁, 4, 1, 0; 2000 GS₂₁, 4, 1, 0; 2000 GT₂₁, 8, 2, 3; 2000 GU₂₁, 8, 2, 3; 2000 GX₂₁, 12, 3, 4; 2000 GB₂₂, 4, 1, 0; 2000 GC₂₂, 8, 2, 1; 2000 GH₂₂, 4, 1, 0; 2000 GN₂₂, 4, 1, 0; 2000 GT₂₂, 4, 1, 0; 2000 GV₂₂, 4, 1, 0; 2000 GW₂₂, 4, 1, 0; 2000 GX₂₂, 4, 1, 0; 2000 GY₂₂, 4, 1, 0; 2000 GE₂₃, 8, 2, 1; 2000 GF₂₃, 4, 1, 0; 2000 GG₂₃, 4, 1, 0; 2000 GJ₂₃, 12, 3, 4; 2000 GL₂₃, 12, 3, 4; 2000 GM₂₃, 4, 1, 0; 2000 GO₂₃, 8, 2, 3; 2000 GP₂₃, 8, 2, 10; 2000 GR₂₃, 4, 1, 0; 2000 GT₂₃, 4, 1, 0; 2000 GV₂₃, 8, 2, 4; 2000 GE₂₄, 8, 2, 1; 2000 GF₂₄, 4, 1, 0; 2000 GK₂₄, 4, 1, 0; 2000 GQ₂₄, 4, 1, 0; 2000 GR₂₄, 8, 2, 4; 2000 GS₂₄, 4, 1, 0; 2000 GT₂₄, 8, 2, 10; 2000 GV₂₄, 4, 1, 0; 2000 GW₂₄, 4, 1, 0; 2000 GX₂₄, 8, 2, 4; 2000 GC₂₅, 8, 2, 10; 2000 GF₂₅, 8, 2, 3; 2000 GG₂₅, 4, 1, 0; 2000 GH₂₅, 4, 1, 0; 2000 GJ₂₅, 8, 2, 1; 2000 GM₂₅, 4, 1, 0; 2000 GN₂₅, 4, 1, 0; 2000 GQ₂₅, 8, 2, 3; 2000 GS₂₅, 8, 2, 3; 2000 GT₂₅, 12, 3, 10; 2000 GU₂₅, 4, 1, 0; 2000 GW₂₅, 4, 1, 0; 2000 GY₂₅, 8, 2, 1; 2000 GZ₂₅, 8, 2, 3; 2000 GA₂₆, 4, 1, 0; 2000 GC₂₆, 4, 1, 0; 2000 GD₂₆, 8, 2, 3; 2000 GE₂₆, 4, 1, 0; 2000 GK₂₆, 12, 3, 4; 2000 GL₂₆, 4, 1, 0; 2000 GM₂₆, 4, 1, 0; 2000 GN₂₆, 8, 2, 3; 2000 GO₂₆, 4, 1, 0; 2000 GP₂₆, 4, 1, 0; 2000 GS₂₆, 4, 1, 0; 2000 GU₂₆, 4, 1, 0; 2000 GV₂₆, 4, 1, 0; 2000 GZ₂₆, 4, 1, 0; 2000 GA₂₇, 4, 1, 0; 2000 GE₂₇, 8, 2, 3; 2000 GG₂₇, 4, 1, 0; 2000 GH₂₇, 8, 2, 3; 2000 GJ₂₇, 4, 1, 0; 2000 GM₂₇, 4, 1, 0; 2000 GN₂₇, 4, 1, 0; 2000 GQ₂₇, 4, 1, 0; 2000 GT₂₇, 4, 1, 0; 2000 GV₂₇, 4, 1, 0; 2000 GX₂₇, 8, 2, 10; 2000 GY₂₇, 4, 1, 0; 2000 GB₂₈, 4, 1, 0; 2000 GE₂₈, 4, 1, 0; 2000 GH₂₈, 4, 1, 0; 2000 GJ₂₈, 4, 1, 0; 2000 GL₂₈, 4, 1, 0; 2000 GM₂₈, 4, 1, 0; 2000 GN₂₈, 8, 2, 3; 2000 GO₂₈, 4, 1, 0; 2000 GQ₂₈, 4, 1, 0; 2000 GT₂₈, 4, 1, 0; 2000 GU₂₈, 4, 1, 0; 2000 GV₂₈, 4, 1, 0; 2000 GX₂₈, 4, 1, 0; 2000 GY₂₈, 4, 1, 0; 2000 GZ₂₈, 4, 1, 0; 2000 GF₂₉, 8, 2, 3; 2000 GG₂₉, 8, 2, 3; 2000 GJ₂₉, 8, 2, 3; 2000 GL₂₉, 8, 2, 3; 2000 GM₂₉, 8, 2, 1; 2000 GP₂₉, 4, 1, 0; 2000 GQ₂₉, 8, 2, 3; 2000 GU₂₉, 8, 2, 3; 2000 GY₂₉, 4, 1, 0; 2000 GZ₂₉, 8, 2, 3; 2000 GA₃₀, 12, 3, 4; 2000 GB₃₀, 4, 1, 0; 2000 GC₃₀, 4, 1, 0; 2000 GE₃₀, 4, 1, 0; 2000 GF₃₀, 4, 1, 0; 2000 GM₃₀, 4, 1, 0; 2000 GT₃₀, 4, 1, 0; 2000 GU₃₀, 4, 1, 0; 2000 GY₃₀, 4, 1, 0; 2000 GZ₃₀, 4, 1, 0; 2000 GA₃₁, 4, 1, 0; 2000 GB₃₁, 4, 1, 0; 2000 GC₃₁, 4, 1, 0; 2000 GD₃₁, 4, 1, 0; 2000 GF₃₁, 8, 2, 4; 2000 GG₃₁, 4, 1, 0; 2000 GM₃₁, 4, 1, 0; 2000 GN₃₁, 4, 1, 0; 2000 GS₃₁, 4, 1, 0; 2000 GT₃₁, 4, 1, 0; 2000 GV₃₁, 4, 1, 0; 2000 GZ₃₁, 4, 1, 0; 2000 GA₃₂, 4, 1, 0; 2000 GE₃₂, 4, 1, 0; 2000 GF₃₂, 8, 2, 3; 2000 GH₃₂, 4, 1, 0; 2000 GJ₃₂, 4, 1, 0; 2000 GK₃₂, 4, 1, 0; 2000 GM₃₂, 4, 1, 0; 2000 GO₃₂, 4, 1, 0; 2000 GS₃₂, 8, 2, 4; 2000 GT₃₂, 8, 2, 3; 2000 GA₃₃, 4, 1, 0; 2000 GC₃₃, 4, 1, 0; 2000 GF₃₃, 12, 3, 4; 2000 GH₃₃, 4, 1, 0; 2000 GJ₃₃, 4, 1, 0; 2000 GK₃₃, 4, 1, 0; 2000 GL₃₃, 4, 1, 0; 2000 GP₃₃, 4, 1, 0; 2000 GQ₃₃, 8, 2, 3; 2000 GT₃₃, 12, 3, 10; 2000 GV₃₃, 4, 1, 0; 2000 GW₃₃, 4, 1, 0; 2000 GX₃₃, 4, 1, 0; 2000 GZ₃₃, 4, 1, 0; 2000 GA₃₄, 4, 1, 0; 2000 GB₃₄, 4, 1, 0; 2000 GC₃₄, 8, 2, 4; 2000 GJ₃₄, 4, 1, 0; 2000 GK₃₄, 4, 1, 0; 2000 GL₃₄, 4, 1, 0; 2000 GN₃₄, 4, 1, 0; 2000 GV₃₄, 4, 1, 0; 2000 GW₃₄, 4, 1, 0; 2000 GX₃₄, 4, 1, 0; 2000 GA₃₅, 8, 2, 4; 2000 GC₃₅, 8, 2, 4; 2000 GE₃₅, 4, 1, 0; 2000 GY₃₅, 4, 1, 0; 2000 GW₃₅, 4, 1, 0; 2000 GQ₃₆, 4, 1, 0; 2000 GS₃₆, 4, 1, 0; 2000 GU₃₆, 4, 1, 0; 2000 GW₃₆, 8, 2, 3; 2000 GY₃₆, 8, 2, 4; 2000 GZ₃₆, 4, 1, 0; 2000 GJ₃₇, 4, 1, 0; 2000 GM₃₇, 4, 1, 0; 2000 GV₃₇, 4, 1, 0; 2000 GK₃₈, 4, 1, 0; 2000 GJ₃₈, 4, 1, 0; 2000 GL₃₈, 4, 1, 0; 2000 GO₃₈, 4, 1, 0; 2000 GP₃₈, 4, 1, 0; 2000 GQ₃₈, 8, 2, 1; 2000 GS₃₈, 4, 1, 0; 2000 GT₃₈, 4, 1, 0; 2000 GY₃₈, 4, 1, 0; 2000 GK₃₉, 4, 1, 0; 2000 GL₃₉, 4, 1, 0; 2000 GP₃₉, 8, 2, 1; 2000 GR₃₉, 4, 1, 0; 2000 GO₄₃, 4, 1, 0; 2000 GY₄₃, 4, 1,

1, 0; 2000 GN₆₄, 4, 1, 0; 2000 GP₆₄, 4, 1, 0; 2000 GT₆₄, 4, 1, 0; 2000 GV₆₄, 4, 1, 0; 2000 GW₆₄, 4, 1, 0; 2000 GZ₆₄, 4, 1, 0; 2000 GV₇₃, 4, 1, 0; 2000 GD₇₇, 4, 1, 0; 2000 GT₇₉, 4, 1, 0; 2000 GX₇₉, 4, 1, 0; 2000 GY₇₉, 12, 3, 4; 2000 GZ₇₉, 4, 1, 0; 2000 GS₈₀, 8, 2, 3; 2000 GC₈₀, 4, 1, 0; 2000 GD₈₀, 4, 1, 0; 2000 GK₈₀, 12, 3, 4; 2000 GL₈₀, 4, 1, 0; 2000 GM₈₀, 4, 1, 0; 2000 GO₈₀, 4, 1, 0; 2000 GS₈₁, 4, 1, 0; 2000 GC₈₁, 4, 1, 0; 2000 GF₈₁, 4, 1, 0; 2000 GG₈₁, 4, 1, 0; 2000 GH₈₁, 4, 1, 0; 2000 GI₈₁, 4, 1, 0; 2000 GJ₈₁, 4, 1, 0; 2000 GK₈₂, 8, 2, 2; 2000 GL₈₂, 8, 2, 2; 2000 GM₈₂, 4, 1, 0; 2000 GN₈₂, 4, 1, 0; 2000 GP₈₂, 4, 1, 0; 2000 GR₈₂, 4, 1, 0; 2000 GS₈₂, 8, 2, 2; 2000 GT₈₂, 4, 1, 0; 2000 GV₈₂, 4, 1, 0; 2000 GW₈₂, 4, 1, 0; 2000 GZ₈₂, 4, 1, 0; 2000 GD₈₄, 4, 1, 0; 2000 GE₈₄, 4, 1, 0; 2000 GF₈₄, 4, 1, 0; 2000 GG₈₄, 4, 1, 0; 2000 GH₈₄, 4, 1, 0; 2000 GI₈₄, 4, 1, 0; 2000 GJ₈₄, 4, 1, 0; 2000 GK₈₅, 4, 1, 0; 2000 GL₈₅, 4, 1, 0; 2000 GM₈₅, 4, 1, 0; 2000 GN₈₅, 4, 1, 0; 2000 GP₈₅, 4, 1, 0; 2000 GR₈₅, 4, 1, 0; 2000 GS₈₆, 8, 2, 4; 2000 GT₈₆, 8, 2, 4; 2000 GV₈₆, 8, 2, 4; 2000 GW₈₆, 8, 2, 4; 2000 GZ₈₆, 8, 2, 4; 2000 GD₈₇, 4, 1, 0; 2000 GE₈₇, 4, 1, 0; 2000 GF₈₇, 4, 1, 0; 2000 GG₈₇, 4, 1, 0; 2000 GH₈₇, 4, 1, 0; 2000 GI₈₇, 4, 1, 0; 2000 GJ₈₇, 4, 1, 0; 2000 GK₈₈, 4, 1, 0; 2000 GL₈₈, 4, 1, 0; 2000 GM₈₈, 4, 1, 0; 2000 GN₈₈, 4, 1, 0; 2000 GP₈₈, 4, 1, 0; 2000 GR₈₈, 4, 1, 0; 2000 GS₈₈, 8, 2, 3; 2000 GT₈₈, 8, 2, 3; 2000 GV₈₈, 8, 2, 3; 2000 GW₈₈, 8, 2, 3; 2000 GZ₈₈, 8, 2, 3; 2000 GD₈₉, 4, 1, 0; 2000 GE₈₉, 4, 1, 0; 2000 GF₈₉, 4, 1, 0; 2000 GG₈₉, 4, 1, 0; 2000 GH₈₉, 4, 1, 0; 2000 GI₈₉, 4, 1, 0; 2000 GJ₈₉, 4, 1, 0; 2000 GK₈₉, 8, 2, 3; 2000 GL₈₉, 8, 2, 3; 2000 GM₈₉, 8, 2, 3; 2000 GN₈₉, 8, 2, 3; 2000 GP₈₉, 8, 2, 3; 2000 GR₈₉, 8, 2, 3; 2000 GS₉₀, 8, 2, 2; 2000 GT₉₀, 8, 2, 2; 2000 GV₉₀, 8, 2, 2; 2000 GW₉₀, 8, 2, 2; 2000 GZ₉₀, 8, 2, 2; 2000 GD₉₁, 4, 1, 0; 2000 GE₉₁, 4, 1, 0; 2000 GF₉₁, 4, 1, 0; 2000 GG₉₁, 4, 1, 0; 2000 GH₉₁, 4, 1, 0; 2000 GI₉₁, 4, 1, 0; 2000 GJ₉₁, 4, 1, 0; 2000 GK₉₁, 8, 2, 2; 2000 GL₉₁, 8, 2, 2; 2000 GM₉₁, 8, 2, 2; 2000 GN₉₁, 4, 1, 0; 2000 GP₉₁, 8, 2, 2; 2000 GR₉₁, 8, 2, 2; 2000 GS₉₁, 8, 2, 2; 2000 GT₉₁, 8, 2, 2; 2000 GV₉₁, 8, 2, 2; 2000 GW₉₁, 8, 2, 2; 2000 GZ₉₁, 8, 2, 2; 2000 GD₉₂, 4, 1, 0; 2000 GE₉₂, 4, 1, 0; 2000 GF₉₂, 4, 1, 0; 2000 GG₉₂, 4, 1, 0; 2000 GH₉₂, 4, 1, 0; 2000 GI₉₂, 4, 1, 0; 2000 GJ₉₂, 4, 1, 0; 2000 GK₉₃, 8, 2, 3; 2000 GL₉₃, 8, 2, 3; 2000 GM₉₃, 4, 1, 0; 2000 GN₉₃, 4, 1, 0; 2000 GP₉₃, 4, 1, 0; 2000 GR₉₃, 8, 2, 3; 2000 GS₉₃, 8, 2, 3; 2000 GT₉₃, 8, 2, 3; 2000 GV₉₃, 12, 3, 5; 2000 GW₉₃, 8, 2, 2; 2000 GZ₉₃, 12, 3, 5; 2000 GD₉₄, 4, 1, 0; 2000 GE₉₄, 8, 2, 2; 2000 GF₉₄, 8, 2, 2; 2000 GG₉₄, 8, 2, 2; 2000 GH₉₄, 8, 2, 2; 2000 GI₉₄, 4, 1, 0; 2000 GJ₉₄, 4, 1, 0; 2000 GK₉₄, 8, 2, 2; 2000 GL₉₄, 4, 1, 0; 2000 GM₉₄, 4, 1, 0; 2000 GN₉₄, 4, 1, 0; 2000 GP₉₄, 8, 2, 2; 2000 GR₉₄, 4, 1, 0; 2000 GS₉₄, 8, 2, 5; 2000 GT₉₄, 4, 1, 0; 2000 GV₉₄, 4, 1, 0; 2000 GW₉₄, 4, 1, 0; 2000 GZ₉₄, 4, 1, 0; 2000 GD₉₇, 4, 1, 0; 2000 GE₉₇, 4, 1, 0; 2000 GF₉₇, 4, 1, 0; 2000 GG₉₇, 4, 1, 0; 2000 GH₉₇, 4, 1, 0; 2000 GI₉₇, 4, 1, 0; 2000 GJ₉₇, 4, 1, 0; 2000 GK₉₈, 8, 2, 4; 2000 GL₉₈, 8, 2, 4; 2000 GM₉₈, 8, 2, 4; 2000 GN₉₈, 8, 2, 4; 2000 GP₉₈, 8, 2, 4; 2000 GR₉₈, 8, 2, 3; 2000 GS₉₈, 8, 2, 3; 2000 GT₉₈, 8, 2, 1; 2000 GV₉₈, 8, 2, 7; 2000 GW₉₈, 4, 1, 0; 2000 GZ₉₈, 4, 1, 0; 2000 GD₁₀₀, 4, 1, 0; 2000 GE₁₀₀, 4, 1, 0; 2000 GF₁₀₀, 4, 1, 0; 2000 GG₁₀₀, 4, 1, 0; 2000 GH₁₀₀, 4, 1, 0; 2000 GI₁₀₀, 4, 1, 0; 2000 GJ₁₀₀, 4, 1, 0; 2000 GK₁₀₁, 8, 2, 2; 2000 GL₁₀₁, 8, 2, 2; 2000 GM₁₀₁, 4, 1, 0; 2000 GN₁₀₁, 4, 1, 0; 2000 GP₁₀₁, 8, 2, 2; 2000 GR₁₀₁, 8, 2, 2; 200

[illegible]

8, 2, 12; 2085 T-2, 3, 1, 0; 2127 T-2, 4, 1, 0; 2216 T-2, 4, 1, 0; 2244 T-2, 4, 1, 0; 2266 T-2, 4, 1, 0; 3071 T-2, 8, 2, 12; 3072 T-2, 8, 2, 12; 3130 T-2, 16, 4, 10; 3178 T-2, 4, 1, 0; 3234 T-2, 3, 1, 0; 3335 T-2, 4, 1, 0; 4071 T-2, 4, 1, 0; 4184 T-2, 6, 2, 1; 5137 T-2, 4, 1, 0; 5167 T-2, 3, 1, 0; 5168 T-2, 3, 1, 0; 5179 T-2, 3, 1, 0; 1032 T-3, 3, 1, 0; 1068 T-3, 2, 1, 0; 1079 T-3, 3, 1, 0; 1089 T-3, 3, 1, 0; 1093 T-3, 4, 1, 0; 1132 T-3, 9, 3, 25; 1168 T-3, 3, 1, 0; 1206 T-3, 3, 1, 0; 2075 T-3, 12, 2, 1; 2110 T-3, 4, 1, 0; 2271 T-3, 4, 1, 0; 2281 T-3, 4, 1, 0; 2288 T-3, 4, 1, 0; 2315 T-3, 3, 1, 0; 3042 T-3, 3, 1, 0; 3149 T-3, 8, 2, 12; 3152 T-3, 8, 2, 12; 3160 T-3, 8, 2, 10; 3175 T-3, 4, 1, 0; 3256 T-3, 4, 1, 0; 3265 T-3, 3, 1, 0; 3268 T-3, 4, 1, 0; 3508 T-3, 6, 2, 9; 3527 T-3, 3, 1, 0; 3530 T-3, 8, 2, 11; 4235 T-3, 3, 1, 0; 4266 T-3, 6, 2, 7; 4310 T-3, 3, 1, 0; 4366 T-3, 3, 1, 0; 4672 T-3, 4, 1, 0; 5014 T-3, 3, 1, 0; 5018 T-3, 6, 2, 69; 5078 T-3, 6, 2, 32; 5124 T-3, 3, 1, 0; 5131 T-3, 4, 1, 0; 5160 T-3, 8, 2, 3; 5282 T-3, 8, 2, 2; (35), 4, 1, 0; (46), 4, 1, 0; (52), 3, 1, 0; (62), 3, 1, 0; (65), 3, 1, 0; (75), 4, 1, 0; (106), 4, 1, 0; (119), 4, 1, 0; (126), 4, 1, 0; (130), 4, 1, 0; (137), 4, 1, 0; (152), 4, 1, 0; (167), 8, 2, 4; (183), 4, 1, 0; (201), 4, 1, 0; (204), 4, 1, 0; (217), 4, 1, 0; (229), 12, 3, 10; (231), 7, 2, 80; (239), 4, 1, 0; (240), 4, 1, 0; (246), 4, 1, 0; (251), 3, 1, 0; (252), 8, 2, 8; (253), 8, 2, 1; (256), 8, 2, 8; (265), 4, 1, 0; (277), 4, 1, 0; (280), 3, 1, 0; (288), 3, 1, 0; (294), 3, 1, 0; (295), 4, 1, 0; (300), 3, 1, 0; (303), 3, 1, 0; (305), 4, 1, 0; (307), 4, 1, 0; (308), 4, 1, 0; (314), 8, 2, 6; (330), 4, 1, 0; (333), 4, 1, 0; (339), 4, 1, 0; (348), 3, 1, 0; (357), 4, 1, 0; (358), 3, 1, 0; (368), 8, 2, 10; (379), 3, 1, 0; (383), 4, 1, 0; (396), 3, 1, 0; (410), 4, 1, 0; (413), 3, 1, 0; (429), 4, 1, 0; (435), 4, 1, 0; (437), 8, 2, 6; (442), 4, 1, 0; (444), 4, 1, 0; (447), 8, 2, 4; (459), 4, 1, 0; (466), 3, 1, 0; (473), 3, 1, 0; (475), 4, 1, 0; (477), 3, 1, 0; (498), 4, 1, 0; (504), 8, 2, 2; (513), 4, 1, 0; (515), 4, 1, 0; (537), 8, 2, 2; (558), 4, 1, 0; (564), 4, 1, 0; (565), 4, 1, 0; (572), 8, 2, 8; (575), 3, 1, 0; (580), 12, 3, 10; (586), 3, 1, 0; (589), 4, 1, 0; (596), 3, 1, 0; (605), 3, 1, 0; (607), 3, 1, 0; (619), 4, 1, 0; (629), 3, 1, 0; (633), 4, 1, 0; (635), 8, 2, 8; (637), 3, 1, 0; (643), 5, 2, 9; (658), 6, 2, 80; (668), 4, 1, 0; (669), 4, 1, 0; (670), 4, 1, 0; (672), 3, 1, 0; (673), 7, 2, 172; (678), 4, 1, 0; (696), 3, 1, 0; (710), 4, 1, 0; (718), 7, 2, 85; (725), 12, 3, 4; (731), 4, 1, 0; (732), 4, 1, 0; (743), 3, 1, 0; (749), 6, 2, 12; (783), 7, 2, 73; (790), 4, 1, 0; (791), 3, 1, 0; (792), 3, 1, 0; (798), 4, 1, 0; (799), 4, 1, 0; (809), 4, 1, 0; (816), 4, 1, 0; (817), 3, 1, 0; (818), 3, 1, 0; (830), 8, 2, 1; (831), 4, 1, 0; (835), 12, 3, 10; (840), 6, 2, 48; (842), 7, 2, 73; (848), 7, 2, 73; (853), 4, 1, 0; (858), 4, 1, 0; (859), 4, 1, 0; (860), 3, 1, 0; (865), 12, 3, 5; (874), 8, 2, 6; (881), 4, 1, 0; (891), 8, 2, 2; (894), 8, 2, 3; (913), 4, 1, 0; (923), 3, 1, 0; (925), 7, 2, 74; (931), 4, 1, 0; (934), 4, 1, 0; (938), 3, 1, 0; (943), 4, 1, 0; (948), 3, 1, 0; (951), 7, 2, 6; (953), 4, 1, 0; (956), 4, 1, 0; (963), 4, 1, 0; (969), 4, 1, 0; (984), 4, 1, 0; (1001), 4, 1, 0; (1002), 4, 1, 0; (1007), 3, 1, 0; (1016), 4, 1, 0; (1025), 4, 1, 0; (1026), 7, 2, 73; (1028), 3, 1, 0; (1033), 8, 2, 4; (1035), 8, 2, 12; (1037), 4, 1, 0; (1041), 4, 1, 0; (1042), 8, 2, 2; (1047), 8, 2, 2; (1052), 4, 1, 0; (1060), 3, 1, 0; (1061), 8, 2, 3; (1067), 6, 2, 1; (1069), 4, 1, 0; (1073), 3, 1, 0; (1097), 4, 1, 0; (1100), 4, 1, 0; (1102), 4, 1, 0; (1106), 8, 2, 7; (1110), 4, 1, 0; (1111), 8, 2, 3; (1140), 4, 1, 0; (1144), 3, 1, 0; (1161), 12, 3, 5; (1171), 11, 3, 85; (1172), 3, 1, 0; (1175), 3, 1, 0; (1183), 12, 3, 10; (1188), 7, 2, 80; (1190), 4, 1, 0; (1191), 4, 1, 0; (1192), 4, 1, 0; (1194), 4, 1, 0; (1196), 4, 1, 0; (1201), 4, 1, 0; (1214), 4, 1, 0; (1220), 4, 1, 0; (1225), 11, 3, 10; (1232), 6, 1, 0; (1237), 3, 1, 0; (1240), 3, 1, 0; (1241), 4, 1, 0; (1243), 6, 2, 1; (1245), 7, 2, 73; (1257), 3, 1, 0; (1261), 11, 3, 85; (1262), 3, 1, 0; (1271), 3, 1, 0; (1274), 6, 2, 12; (1275), 4, 1, 0; (1276), 3, 1, 0; (1280), 4, 1, 0; (1284), 4, 1, 0; (1288), 8, 2, 10; (1292), 3, 1, 0; (1299), 4, 1, 0; (1305), 4, 1, 0; (1308), 4, 1, 0; (1317), 7, 2, 85; (1320), 4, 1, 0; (1322), 3, 1, 0; (1328), 8, 2, 12; (1331), 3, 1, 0; (1335), 8, 2, 4; (1351), 4, 1, 0; (1352), 12, 2, 8; (1358), 4, 1, 0; (1364), 4, 1, 0; (1365), 2, 1, 0; (1379), 4, 1, 0; (1386), 8, 2, 5; (1394), 4, 1, 0; (1399), 3, 1, 0; (1400), 12, 3, 10; (1401), 4, 1, 0; (1404), 3, 1, 0; (1406), 4, 1, 0; (1410), 4, 1, 0; (1411), 4, 1, 0; (1412), 8, 2, 4; (1415), 3, 1, 0; (1425), 4, 1, 0; (1429), 1, 1, 0; (1430), 3, 1, 0; (1431), 4, 1, 0; (1433), 4, 1, 0; (1444), 3, 1, 0; (1451), 4, 1, 0; (1453), 3, 1, 0; (1462), 4, 1, 0; (1463), 8, 2, 4; (1465), 3, 1, 0; (1472), 7, 2, 80; (1474), 4, 1, 0; (1478), 3, 1, 0; (1480), 10, 3, 158; (1484), 1, 1, 0; (1489), 3, 1, 0; (1491), 3, 1, 0; (1497), 4, 1, 0; (1506), 4, 1, 0; (1510), 4, 1, 0; (1515), 4, 1, 0; (1527), 3, 1, 0; (1536), 4, 1, 0; (1538), 4, 1, 0; (1549), 6, 2, 12; (1550), 4, 1, 0; (1551), 3, 1, 0; (1553), 12, 3, 5; (1556), 4, 1, 0; (1557), 4, 1, 0; (1560), 3, 1, 0; (1564), 4, 1, 0; (1571), 4, 1, 0; (1576), 8, 1, 0; (1579), 1, 1, 0; (1581), 4, 1, 0; (1582), 8, 2, 2; (1586), 4, 1, 0; (1589), 3, 1, 0; (1596), 4, 1, 0; (1603), 3, 1, 0; (1609), 3, 1, 0; (1615), 4, 1, 0; (1618), 7, 2, 80; (1621), 3, 1, 0; (1625), 3, 1, 0; (1627), 7, 2, 73; (1630), 12, 3, 4; (1633), 3, 1, 0; (1636), 3, 1, 0; (1643), 3, 1, 0; (1645), 3, 1, 0; (1646), 3, 1, 0; (1650), 3, 1, 0; (1651), 4, 1, 0; (1664), 3, 1, 0; (1666), 8, 2, 6; (1673), 4, 1, 0; (1674), 3, 1, 0; (1680), 3, 1, 0; (1686), 7, 2, 80; (1687), 3, 1, 0; (1692), 4, 1, 0; (1696), 4, 1, 0; (1700), 7, 2, 80; (1702), 3, 1, 0; (1707), 8, 2, 12; (1710), 4, 1, 0; (1720), 4, 1, 0; (1721), 4, 1, 0; (1732), 2, 1, 0; (1733), 12, 3, 7; (1734), 8, 2, 12; (1737), 4, 1, 0; (1738), 4, 1, 0; (1741), 4, 1, 0; (1742), 6, 2, 99; (1748), 3, 1, 0; (1750), 4, 1, 0; (1751), 4, 1, 0; (1756), 4, 1, 0; (1760), 4, 1, 0; (1769), 3, 1, 0; (1782), 4, 1, 0; (1783), 4, 1, 0; (1788), 8, 2, 11; (1802), 4, 1, 0; (1815), 12, 3, 4; (1820), 3, 1, 0; (1823), 4, 1, 0; (1824), 9, 3, 99; (1825), 8, 2, 8; (1827), 8, 2, 6; (1829), 7, 2, 172; (1830), 4, 1, 0; (1831), 3, 1, 0; (1842), 8, 2, 3; (1851), 3, 1, 0; (1853), 6, 2, 3; (1857), 8, 2, 4; (1860), 7, 2, 73; (1863), 3, 1, 0; (1866), 4, 1, 0; (1874), 4, 1, 0; (1875), 3, 1, 0; (1887), 11, 3, 10; (1892), 7, 2, 80; (1906), 8, 2, 12; (1911), 12, 3, 10; (1914), 11, 3, 85; (1917), 4, 1, 0; (1926), 4, 1, 0; (1931), 4, 1, 0; (1939), 8, 2, 12; (1941), 8, 2, 3; (1949), 3, 1, 0; (1956), 6, 2, 99; (1967), 4, 1, 0; (1968), 4, 1, 0; (1970), 3, 1, 0; (1973), 4, 1, 0; (1974), 4, 1, 0; (1975), 4, 1, 0; (1977), 6, 1, 0; (1978), 4, 1, 0; (1991), 7, 2, 80; (2001), 4, 1, 0; (2006), 8, 2, 6; (2017), 4, 1, 0; (2019), 3, 1, 0; (2022), 4, 1, 0; (2029), 4, 1, 0; (2031), 3, 1, 0; (2034), 15, 4, 84; (2056), 4, 1, 0; (2066), 3, 1, 0; (2070), 4, 1, 0; (2086), 3, 1, 0; (2092), 7, 2, 80; (2095), 3, 1, 0;

(2097), 3, 1, 0; (2104), 4, 1, 0; (2110), 4, 1, 0; (2119), 4, 1, 0; (2123), 4, 1, 0; (2125), 4, 1, 0; (2136), 8, 2, 2; (2137), 1, 1, 0; (2139), 4, 1, 0; (2142), 7, 2, 73; (2144), 8, 2, 1; (2147), 7, 2, 81; (2168), 8, 2, 10; (2172), 7, 2, 81; (2173), 4, 1, 0; (2179), 4, 1, 0; (2184), 4, 1, 0; (2189), 4, 1, 0; (2194), 4, 1, 0; (2197), 3, 1, 0; (2208), 7, 2, 5; (2210), 7, 2, 5; (2220), 4, 1, 0; (2225), 3, 1, 0; (2227), 4, 1, 0; (2230), 4, 1, 0; (2233), 2, 1, 0; (2243), 3, 1, 0; (2253), 7, 2, 80; (2257), 8, 2, 6; (2263), 3, 1, 0; (2268), 8, 2, 3; (2272), 8, 2, 8; (2282), 8, 2, 8; (2288), 2, 1, 0; (2292), 8, 1, 0; (2303), 8, 2, 6; (2309), 4, 1, 0; (2312), 8, 2, 3; (2327), 4, 1, 0; (2330), 3, 1, 0; (2336), 11, 3, 85; (2342), 4, 1, 0; (2344), 4, 1, 0; (2346), 8, 2, 6; (2358), 7, 2, 81; (2359), 3, 1, 0; (2362), 3, 1, 0; (2363), 6, 2, 9; (2370), 8, 2, 4; (2371), 8, 2, 12; (2388), 8, 2, 6; (2396), 4, 1, 0; (2405), 3, 1, 0; (2413), 4, 1, 0; (2423), 4, 1, 0; (2426), 8, 2, 6; (2429), 12, 3, 10; (2441), 4, 1, 0; (2447), 3, 1, 0; (2459), 4, 1, 0; (2466), 4, 1, 0; (2474), 4, 1, 0; (2477), 4, 1, 0; (2481), 4, 1, 0; (2491), 7, 2, 29; (2498), 4, 1, 0; (2500), 4, 1, 0; (2505), 3, 1, 0; (2511), 3, 1, 0; (2513), 6, 2, 12; (2515), 4, 1, 0; (2516), 7, 2, 73; (2517), 4, 1, 0; (2525), 3, 1, 0; (2528), 3, 1, 0; (2529), 16, 4, 11; (2532), 3, 1, 0; (2533), 8, 2, 12; (2543), 4, 1, 0; (2545), 4, 1, 0; (2551), 7, 2, 81; (2553), 8, 1, 0; (2556), 3, 1, 0; (2561), 3, 1, 0; (2585), 4, 1, 0; (2587), 3, 1, 0; (2598), 3, 1, 0; (2605), 4, 1, 0; (2615), 8, 2, 12; (2617), 8, 2, 2; (2626), 3, 1, 0; (2634), 3, 1, 0; (2650), 4, 1, 0; (2652), 4, 1, 0; (2653), 4, 1, 0; (2659), 3, 1, 0; (2662), 4, 1, 0; (2669), 3, 1, 0; (2674), 3, 1, 0; (2677), 2, 1, 0; (2680), 4, 1, 0; (2681), 7, 2, 80; (2685), 3, 1, 0; (2699), 4, 1, 0; (2704), 4, 1, 0; (2708), 4, 1, 0; (2711), 3, 1, 0; (2721), 4, 1, 0; (2725), 3, 1, 0; (2732), 4, 1, 0; (2739), 3, 1, 0; (2742), 7, 2, 81; (2747), 3, 1, 0; (2752), 4, 1, 0; (2758), 3, 1, 0; (2760), 12, 3, 10; (2776), 8, 2, 10; (2785), 3, 1, 0; (2798), 12, 3, 10; (2808), 3, 1, 0; (2812), 3, 1, 0; (2813), 4, 1, 0; (2819), 16, 4, 11; (2826), 4, 1, 0; (2839), 4, 1, 0; (2843), 3, 1, 0; (2846), 7, 2, 80; (2869), 4, 1, 0; (2871), 4, 1, 0; (2875), 3, 1, 0; (2876), 4, 1, 0; (2877), 20, 5, 11; (2881), 4, 1, 0; (2890), 4, 1, 0; (2892), 4, 1, 0; (2904), 4, 1, 0; (2915), 4, 1, 0; (2917), 6, 2, 1; (2918), 7, 2, 80; (2927), 4, 1, 0; (2928), 3, 1, 0; (2930), 8, 2, 4; (2953), 6, 2, 99; (2958), 3, 1, 0; (2966), 8, 2, 10; (2977), 4, 1, 0; (2985), 4, 1, 0; (2990), 4, 1, 0; (2994), 3, 1, 0; (2998), 8, 2, 11; (3001), 3, 1, 0; (3003), 5, 2, 12; (3005), 4, 1, 0; (3014), 4, 1, 0; (3016), 7, 2, 80; (3028), 3, 1, 0; (3031), 3, 1, 0; (3046), 3, 1, 0; (3047), 3, 1, 0; (3049), 3, 1, 0; (3066), 8, 2, 8; (3077), 3, 1, 0; (3082), 4, 1, 0; (3087), 4, 1, 0; (3090), 8, 2, 12; (3093), 8, 2, 6; (3107), 4, 1, 0; (3111), 3, 1, 0; (3119), 8, 1, 0; (3127), 3, 1, 0; (3128), 3, 1, 0; (3135), 4, 1, 0; (3140), 8, 2, 2; (3141), 4, 1, 0; (3165), 7, 2, 80; (3166), 7, 2, 158; (3179), 8, 2, 7; (3181), 3, 1, 0; (3184), 4, 1, 0; (3191), 3, 1, 0; (3203), 4, 1, 0; (3205), 4, 1, 0; (3207), 3, 1, 0; (3208), 3, 1, 0; (3214), 6, 2, 10; (3226), 3, 1, 0; (3228), 3, 1, 0; (3250), 4, 1, 0; (3255), 4, 1, 0; (3263), 4, 1, 0; (3265), 7, 2, 85; (3278), 3, 1, 0; (3283), 8, 2, 12; (3289), 12, 3, 10; (3311), 3, 1, 0; (3313), 6, 2, 1; (3318), 4, 1, 0; (3319), 4, 1, 0; (3330), 8, 2, 12; (3343), 4, 1, 0; (3348), 4, 1, 0; (3355), 3, 1, 0; (3356), 3, 1, 0; (3357), 4, 1, 0; (3359), 4, 1, 0; (3364), 3, 1, 0; (3375), 4, 1, 0; (3385), 3, 1, 0; (3391), 3, 1, 0; (3405), 4, 1, 0; (3407), 8, 2, 2; (3412), 4, 1, 0; (3415), 3, 1, 0; (3421), 8, 2, 1; (3426), 4, 1, 0; (3427), 4, 1, 0; (3439), 11, 3, 85; (3443), 4, 1, 0; (3446), 3, 1, 0; (3447), 4, 1, 0; (3455), 3, 1, 0; (3456), 4, 1, 0; (3464), 7, 2, 80; (3465), 3, 1, 0; (3466), 3, 1, 0; (3469), 4, 1, 0; (3473), 3, 1, 0; (3477), 4, 1, 0; (3482), 3, 1, 0; (3485), 3, 1, 0; (3494), 4, 1, 0; (3499), 3, 1, 0; (3519), 7, 2, 80; (3552), 4, 1, 0; (3555), 3, 1, 0; (3556), 4, 1, 0; (3565), 8, 2, 3; (3573), 3, 1, 0; (3578), 8, 2, 2; (3584), 4, 1, 0; (3586), 8, 2, 4; (3588), 3, 1, 0; (3593), 4, 1, 0; (3595), 3, 1, 0; (3604), 4, 1, 0; (3610), 7, 2, 80; (3612), 8, 2, 3; (3616), 3, 1, 0; (3626), 8, 2, 8; (3634), 3, 1, 0; (3640), 4, 1, 0; (3645), 6, 2, 1; (3652), 3, 1, 0; (3656), 3, 1, 0; (3658), 8, 2, 14; (3668), 8, 2, 12; (3670), 3, 1, 0; (3677), 4, 1, 0; (3681), 4, 1, 0; (3689), 4, 1, 0; (3691), 3, 1, 0; (3696), 4, 1, 0; (3700), 3, 1, 0; (3705), 3, 1, 0; (3720), 4, 1, 0; (3721), 4, 1, 0; (3726), 4, 1, 0; (3731), 3, 1, 0; (3733), 4, 1, 0; (3736), 7, 2, 73; (3737), 8, 2, 2; (3747), 3, 1, 0; (3768), 7, 2, 73; (3776), 4, 1, 0; (3785), 8, 2, 12; (3798), 3, 1, 0; (3800), 4, 1, 0; (3807), 3, 1, 0; (3815), 4, 1, 0; (3818), 8, 2, 12; (3820), 4, 1, 0; (3821), 8, 2, 6; (3832), 3, 1, 0; (3858), 3, 1, 0; (3861), 12, 3, 4; (3862), 4, 1, 0; (3864), 3, 1, 0; (3865), 12, 3, 10; (3869), 8, 2, 4; (3879), 4, 1, 0; (3883), 4, 1, 0; (3892), 8, 2, 2; (3896), 4, 1, 0; (3898), 7, 2, 80; (3903), 4, 1, 0; (3904), 6, 2, 97; (3921), 8, 2, 3; (3923), 3, 1, 0; (3926), 4, 1, 0; (3927), 3, 1, 0; (3928), 3, 1, 0; (3930), 3, 1, 0; (3943), 4, 1, 0; (3944), 3, 1, 0; (3949), 8, 2, 8; (3950), 3, 1, 0; (3959), 8, 2, 4; (3964), 4, 1, 0; (3968), 3, 1, 0; (3971), 4, 1, 0; (3992), 4, 1, 0; (3999), 3, 1, 0; (4001), 4, 1, 0; (4010), 4, 1, 0; (4013), 8, 2, 3; (4021), 4, 1, 0; (4024), 4, 1, 0; (4032), 4, 1, 0; (4038), 3, 1, 0; (4052), 3, 1, 0; (4053), 3, 1, 0; (4079), 6, 2, 87; (4081), 4, 1, 0; (4085), 3, 1, 0; (4086), 4, 1, 0; (4094), 4, 1, 0; (4101), 3, 1, 0; (4104), 3, 1, 0; (4117), 8, 2, 2; (4120), 8, 2, 6; (4122), 3, 1, 0; (4137), 6, 2, 8; (4139), 3, 1, 0; (4140), 7, 2, 73; (4150), 4, 1, 0; (4155), 4, 1, 0; (4160), 4, 1, 0; (4166), 3, 1, 0; (4182), 3, 1, 0; (4188), 11, 3, 85; (4193), 3, 1, 0; (4198), 11, 3, 85; (4201), 4, 1, 0; (4203), 3, 1, 0; (4212), 3, 1, 0; (4214), 4, 1, 0; (4234), 7, 2, 81; (4246), 3, 1, 0; (4254), 4, 1, 0; (4259), 1, 1, 0; (4262), 3, 1, 0; (4271), 3, 1, 0; (4274), 4, 1, 0; (4282), 8, 2, 4; (4285), 4, 1, 0; (4292), 4, 1, 0; (4294), 7, 2, 80; (4300), 4, 1, 0; (4311), 4, 1, 0; (4323), 4, 1, 0; (4327), 4, 1, 0; (4339), 4, 1, 0; (4349), 8, 2, 3; (4357), 3, 1, 0; (4358), 4, 1, 0; (4359), 4, 1, 0; (4367), 3, 1, 0; (4369), 3, 1, 0; (4375), 3, 1, 0; (4389), 3, 1, 0; (4411), 4, 1, 0; (4416), 8, 2, 12; (4418), 4, 1, 0; (4420), 3, 1, 0; (4427), 8, 2, 8; (4460), 8, 2, 8; (4461), 4, 1, 0; (4462), 4, 1, 0; (4463), 3, 1, 0; (4469), 6, 2, 1; (4471), 4, 1, 0; (4473), 6, 2, 1; (4484), 4, 1, 0; (4486), 3, 1, 0; (4498), 4, 1, 0; (4506), 11,

(4725), 3, 1, 0; (4740), 8, 2, 6; (4741), 8, 2, 3; (4747), 3, 1, 0; (4756), 3, 1, 0; (4767), 8, 2, 8; (4771), 3, 1, 0; (4783), 4, 1, 0; (4793), 16, 4, 5; (4804), 8, 1, 0; (4816), 4, 1, 0; (4850), 4, 1, 0; (4872), 4, 1, 0; (4873), 4, 1, 0; (4876), 3, 1, 0; (4886), 3, 1, 0; (4890), 3, 1, 0; (4891), 3, 1, 0; (4901), 4, 1, 0; (4908), 8, 2, 12; (4912), 8, 2, 1; (4919), 8, 2, 14; (4923), 4, 1, 0; (4924), 8, 2, 12; (4929), 7, 2, 73; (4930), 4, 1, 0; (4932), 3, 1, 0; (4934), 4, 1, 0; (4935), 7, 2, 73; (4940), 8, 2, 12; (4941), 8, 2, 12; (4942), 4, 1, 0; (4961), 4, 1, 0; (4967), 4, 1, 0; (4976), 4, 1, 0; (4980), 16, 4, 10; (4983), 7, 2, 73; (4985), 8, 2, 11; (4990), 3, 1, 0; (5003), 1, 1, 0; (5004), 4, 1, 0; (5005), 12, 3, 10; (5014), 7, 2, 80; (5016), 4, 1, 0; (5020), 4, 1, 0; (5022), 4, 1, 0; (5026), 3, 1, 0; (5027), 3, 1, 0; (5030), 8, 2, 8; (5037), 4, 1, 0; (5038), 4, 1, 0; (5047), 3, 1, 0; (5048), 3, 1, 0; (5050), 4, 1, 0; (5051), 4, 1, 0; (5055), 4, 1, 0; (5064), 4, 1, 0; (5077), 4, 1, 0; (5085), 4, 1, 0; (5089), 4, 1, 0; (5110), 3, 1, 0; (5111), 8, 2, 8; (5114), 4, 1, 0; (5129), 8, 2, 2; (5142), 4, 1, 0; (5153), 3, 1, 0; (5173), 3, 1, 0; (5174), 4, 1, 0; (5200), 4, 1, 0; (5203), 8, 2, 1; (5204), 4, 1, 0; (5207), 4, 1, 0; (5209), 3, 1, 0; (5210), 3, 1, 0; (5213), 8, 2, 6; (5215), 4, 1, 0; (5216), 4, 1, 0; (5218), 8, 2, 8; (5228), 4, 1, 0; (5253), 4, 1, 0; (5263), 6, 2, 48; (5271), 4, 1, 0; (5272), 4, 1, 0; (5273), 4, 1, 0; (5300), 4, 1, 0; (5306), 11, 3, 85; (5309), 3, 1, 0; (5314), 8, 2, 8; (5321), 4, 1, 0; (5327), 3, 1, 0; (5329), 4, 1, 0; (5353), 16, 4, 5; (5355), 3, 1, 0; (5367), 8, 1, 0; (5368), 3, 1, 0; (5372), 4, 1, 0; (5383), 4, 1, 0; (5392), 6, 2, 10; (5394), 3, 1, 0; (5398), 4, 1, 0; (5400), 3, 1, 0; (5419), 4, 1, 0; (5428), 4, 1, 0; (5429), 8, 2, 12; (5434), 4, 1, 0; (5440), 3, 1, 0; (5446), 7, 2, 73; (5455), 3, 1, 0; (5458), 4, 1, 0; (5460), 8, 2, 4; (5461), 4, 1, 0; (5479), 4, 1, 0; (5481), 3, 1, 0; (5499), 4, 1, 0; (5500), 7, 2, 80; (5506), 7, 2, 156; (5509), 4, 1, 0; (5510), 3, 1, 0; (5515), 3, 1, 0; (5525), 4, 1, 0; (5527), 4, 1, 0; (5539), 3, 1, 0; (5550), 8, 2, 3; (5554), 3, 1, 0; (5557), 3, 1, 0; (5559), 3, 1, 0; (5560), 12, 3, 5; (5568), 4, 1, 0; (5581), 3, 1, 0; (5586), 4, 1, 0; (5600), 4, 1, 0; (5603), 4, 1, 0; (5605), 16, 4, 10; (5613), 8, 2, 12; (5618), 3, 1, 0; (5621), 4, 1, 0; (5631), 4, 1, 0; (5638), 3, 1, 0; (5640), 4, 1, 0; (5641), 4, 1, 0; (5650), 4, 1, 0; (5656), 8, 2, 7; (5671), 8, 2, 6; (5672), 3, 1, 0; (5676), 4, 1, 0; (5685), 3, 1, 0; (5688), 4, 1, 0; (5693), 4, 1, 0; (5701), 7, 2, 74; (5704), 3, 1, 0; (5721), 16, 4, 5; (5730), 2, 1, 0; (5749), 3, 1, 0; (5755), 3, 1, 0; (5759), 7, 2, 81; (5769), 3, 1, 0; (5775), 4, 1, 0; (5776), 4, 1, 0; (5791), 3, 1, 0; (5793), 4, 1, 0; (5806), 4, 1, 0; (5807), 4, 1, 0; (5808), 7, 2, 73; (5809), 4, 1, 0; (5811), 4, 1, 0; (5816), 4, 1, 0; (5823), 4, 1, 0; (5838), 4, 1, 0; (5845), 3, 1, 0; (5883), 3, 1, 0; (5895), 3, 1, 0; (5901), 3, 1, 0; (5911), 3, 1, 0; (5914), 4, 1, 0; (5920), 4, 1, 0; (5926), 4, 1, 0; (5927), 4, 1, 0; (5934), 4, 1, 0; (5940), 8, 2, 1; (5946), 4, 1, 0; (5958), 4, 1, 0; (5989), 3, 1, 0; (5993), 4, 1, 0; (6002), 3, 1, 0; (6004), 12, 3, 10; (6013), 6, 2, 8; (6016), 4, 1, 0; (6018), 4, 1, 0; (6028), 3, 1, 0; (6038), 4, 1, 0; (6045), 8, 2, 12; (6054), 4, 1, 0; (6058), 4, 1, 0; (6060), 3, 1, 0; (6064), 8, 2, 6; (6066), 4, 1, 0; (6069), 8, 2, 7; (6074), 8, 2, 8; (6078), 3, 1, 0; (6082), 3, 1, 0; (6085), 4, 1, 0; (6092), 4, 1, 0; (6095), 4, 1, 0; (6097), 8, 2, 4; (6099), 4, 1, 0; (6100), 8, 2, 7; (6104), 4, 2, 8; (6111), 7, 2, 80; (6118), 3, 1, 0; (6119), 6, 2, 12; (6122), 8, 2, 10; (6123), 4, 1, 0; (6131), 4, 1, 0; (6135), 2, 1, 0; (6140), 8, 2, 2; (6143), 3, 1, 0; (6145), 8, 2, 4; (6154), 3, 1, 0; (6155), 7, 2, 80; (6156), 3, 1, 0; (6157), 3, 1, 0; (6162), 4, 1, 0; (6167), 4, 1, 0; (6173), 4, 1, 0; (6184), 8, 2, 1; (6189), 4, 1, 0; (6192), 4, 1, 0; (6193), 3, 1, 0; (6195), 4, 1, 0; (6205), 4, 1, 0; (6212), 4, 1, 0; (6215), 4, 1, 0; (6216), 7, 2, 81; (6230), 3, 1, 0; (6256), 8, 2, 12; (6260), 4, 1, 0; (6262), 3, 1, 0; (6265), 7, 2, 73; (6275), 3, 1, 0; (6276), 4, 1, 0; (6284), 3, 1, 0; (6286), 4, 1, 0; (6306), 4, 1, 0; (6309), 4, 1, 0; (6321), 4, 1, 0; (6323), 4, 1, 0; (6325), 4, 1, 0; (6328), 3, 1, 0; (6335), 4, 1, 0; (6337), 4, 1, 0; (6342), 7, 2, 80; (6345), 4, 1, 0; (6355), 3, 1, 0; (6356), 8, 2, 2; (6357), 11, 3, 80; (6374), 4, 1, 0; (6379), 4, 1, 0; (6390), 4, 1, 0; (6402), 8, 2, 6; (6404), 11, 3, 85; (6416), 3, 1, 0; (6419), 3, 1, 0; (6420), 4, 1, 0; (6423), 4, 1, 0; (6430), 3, 1, 0; (6432), 8, 2, 4; (6437), 4, 1, 0; (6447), 4, 1, 0; (6459), 8, 2, 6; (6462), 4, 1, 0; (6464), 4, 1, 0; (6478), 3, 1, 0; (6479), 4, 1, 0; (6487), 3, 1, 0; (6495), 6, 2, 1; (6498), 3, 1, 0; (6506), 12, 3, 10; (6515), 3, 1, 0; (6536), 3, 1, 0; (6556), 3, 1, 0; (6564), 4, 1, 0; (6583), 3, 1, 0; (6585), 4, 1, 0; (6594), 8, 2, 12; (6614), 3, 1, 0; (6629), 4, 1, 0; (6633), 3, 1, 0; (6636), 7, 2, 73; (6666), 1, 1, 0; (6669), 4, 1, 0; (6681), 4, 1, 0; (6687), 3, 1, 0; (6690), 3, 1, 0; (6699), 3, 1, 0; (6700), 3, 1, 0; (6704), 3, 1, 0; (6706), 3, 1, 0; (6711), 3, 1, 0; (6733), 3, 1, 0; (6735), 12, 3, 4; (6737), 4, 1, 0; (6760), 3, 1, 0; (6768), 4, 1, 0; (6778), 1, 1, 0; (6779), 3, 1, 0; (6780), 4, 1, 0; (6784), 3, 1, 0; (6792), 7, 2, 81; (6795), 2, 1, 0; (6798), 3, 1, 0; (6804), 8, 2, 4; (6807), 8, 2, 3; (6810), 3, 1, 0; (6817), 11, 3, 10; (6827), 4, 1, 0; (6838), 6, 2, 9; (6841), 4, 1, 0; (6843), 4, 1, 0; (6844), 4, 1, 0; (6849), 4, 1, 0; (6852), 4, 1, 0; (6854), 8, 2, 8; (6856), 8, 2, 12; (6865), 20, 5, 11; (6867), 8, 2, 6; (6871), 8, 2, 3; (6874), 8, 2, 8; (6877), 4, 1, 0; (6878), 7, 2, 59; (6882), 4, 1, 0; (6884), 4, 1, 0; (6886), 4, 1, 0; (6888), 4, 1, 0; (6893), 4, 1, 0; (6895), 7, 2, 80; (6908), 3, 1, 0; (6914), 4, 1, 0; (6920), 4, 1, 0; (6935), 12, 3, 11; (6938), 3, 1, 0; (6939), 4, 1, 0; (6941), 3, 1, 0; (6945), 3, 1, 0; (6950), 4, 1, 0; (6952), 4, 1, 0; (6957), 8, 2, 12; (6959), 4, 1, 0; (6965), 8, 2, 2; (6972), 12, 3, 26; (6973), 3, 1, 0; (6975), 3, 1, 0; (6981), 8, 2, 8; (6982), 4, 1, 0; (6990), 3, 1, 0; (6992), 3, 1, 0; (6995), 4, 1, 0; (7005), 8, 2, 3; (7006), 4, 1, 0; (7022), 4, 1, 0; (7024), 3, 1, 0; (7028), 4, 1, 0; (7045), 12, 3, 4; (7052), 12, 3, 5; (7060), 4, 1, 0; (7061), 3, 1, 0; (7062), 3, 1, 0; (7063), 3, 1, 0; (7076), 8, 2, 7; (7082), 3, 1, 0; (7085), 4, 1, 0; (7087), 3, 1, 0; (7103), 12, 3, 4; (7106), 4, 1, 0; (7107), 4, 1, 0; (7112), 4, 1, 0; (7127), 8, 2, 8; (7128), 4, 1, 0; (7139), 8, 2, 3; (7188), 3, 1, 0; (7191), 1, 1, 0; (7194), 8, 2, 1; (7209), 4, 1, 0; (7212), 8, 2, 4; (7217), 4, 1, 0; (7222), 3, 1, 0; (7231), 4, 1, 0; (7284), 16, 4, 10; (7289), 3, 1, 0; (7313), 8, 2, 4; (7315), 12, 3, 10; (7324), 4, 1, 0; (7344), 4, 1, 0; (7349), 4, 1, 0; (7353), 4, 1, 0; (7357), 3, 1, 0; (7361), 3, 1, 0; (7362), 12, 3, 10; (7363), 4, 1, 0; (7398), 3, 1, 0; (7400), 3, 1, 0; (7421), 4, 1, 0; (7433), 4, 1, 0; (7445), 3, 1, 0; (7451), 11, 3, 85; (7455), 4, 1, 0; (7471), 4, 1, 0; (7481), 3, 1, 0; (7488), 4, 1, 0; (7493), 3, 1, 0; (7497), 3, 1, 0; (7498), 6, 2, 48; (7527), 3, 1, 0; (7531), 3, 1, 0; (7537), 3, 1, 0; (7572), 6, 2, 97; (7576),

8, 2, 2; (7579), 3, 1, 0; (7584), 3, 1, 0; (7585), 3, 1, 0; (7629), 3, 1, 0; (7634), 2, 1, 0; (7635), 3, 1, 0; (7642), 4, 1, 0; (7643), 4, 1, 0; (7645), 7, 2, 73; (7648), 4, 1, 0; (7653), 4, 1, 0; (7654), 4, 1, 0; (7655), 3, 1, 0; (7659), 3, 1, 0; (7671), 4, 1, 0; (7677), 3, 1, 0; (7681), 3, 1, 0; (7690), 3, 1, 0; (7693), 3, 1, 0; (7694), 3, 1, 0; (7701), 3, 1, 0; (7709), 4, 1, 0; (7714), 8, 2, 5; (7715), 4, 1, 0; (7716), 8, 2, 12; (7724), 7, 2, 73; (7729), 3, 1, 0; (7732), 3, 1, 0; (7738), 4, 1, 0; (7739), 8, 2, 3; (7743), 4, 1, 0; (7747), 4, 1, 0; (7748), 8, 2, 4; (7749), 4, 1, 0; (7750), 4, 1, 0; (7752), 3, 1, 0; (7757), 4, 1, 0; (7760), 4, 1, 0; (7764), 3, 1, 0; (7766), 3, 1, 0; (7768), 12, 3, 4; (7776), 3, 1, 0; (7777), 4, 1, 0; (7778), 4, 1, 0; (7786), 4, 1, 0; (7787), 4, 1, 0; (7794), 8, 2, 26; (7799), 8, 2, 3; (7804), 4, 1, 0; (7805), 4, 1, 0; (7806), 4, 1, 0; (7811), 4, 1, 0; (7813), 8, 2, 12; (7817), 3, 1, 0; (7820), 16, 4, 10; (7824), 4, 1, 0; (7825), 4, 1, 0; (7826), 4, 1, 0; (7833), 4, 1, 0; (7837), 4, 1, 0; (7848), 3, 1, 0; (7849), 4, 1, 0; (7856), 4, 1, 0; (7857), 3, 1, 0; (7858), 8, 2, 3; (7861), 8, 2, 7; (7864), 3, 1, 0; (7868), 11, 3, 85; (7875), 8, 2, 2; (7880), 4, 1, 0; (7881), 8, 2, 12; (7894), 4, 1, 0; (7899), 8, 2, 1; (7901), 3, 1, 0; (7902), 3, 1, 0; (7904), 3, 1, 0; (7906), 4, 1, 0; (7907), 4, 1, 0; (7908), 8, 2, 3; (7912), 12, 3, 10; (7913), 4, 1, 0; (7914), 4, 1, 0; (7918), 4, 1, 0; (7919), 4, 1, 0; (7923), 8, 2, 5; (7924), 3, 1, 0; (7925), 4, 1, 0; (7928), 3, 1, 0; (7937), 3, 1, 0; (7941), 4, 1, 0; (7942), 3, 1, 0; (7943), 3, 1, 0; (7944), 3, 1, 0; (7950), 4, 1, 0; (7953), 4, 1, 0; (7954), 4, 1, 0; (7964), 8, 2, 1; (7969), 20, 5, 11; (7970), 3, 1, 0; (7971), 4, 1, 0; (7972), 3, 1, 0; (7973), 8, 2, 12; (7975), 4, 1, 0; (7979), 4, 1, 0; (7981), 4, 1, 0; (7991), 3, 1, 0; (7993), 8, 2, 3; (7995), 4, 1, 0; (8000), 4, 1, 0; (8008), 4, 1, 0; (8010), 4, 1, 0; (8017), 12, 3, 10; (8025), 16, 4, 10; (8029), 8, 2, 12; (8030), 4, 1, 0; (8036), 4, 1, 0; (8048), 4, 1, 0; (8052), 4, 1, 0; (8057), 12, 3, 10; (8061), 4, 1, 0; (8064), 4, 1, 0; (8074), 4, 1, 0; (8076), 8, 2, 12; (8078), 8, 2, 3; (8083), 16, 4, 10; (8090), 4, 1, 0; (8095), 3, 1, 0; (8099), 4, 1, 0; (8100), 4, 1, 0; (8101), 4, 1, 0; (8103), 12, 3, 4; (8133), 4, 1, 0; (8136), 4, 1, 0; (8147), 4, 1, 0; (8150), 3, 1, 0; (8155), 4, 1, 0; (8158), 4, 1, 0; (8169), 4, 1, 0; (8174), 4, 1, 0; (8186), 4, 1, 0; (8187), 8, 2, 2; (8203), 8, 2, 12; (8208), 4, 1, 0; (8219), 12, 3, 10; (8225), 4, 1, 0; (8236), 4, 1, 0; (8247), 8, 2, 3; (8250), 6, 2, 82; (8289), 3, 1, 0; (8339), 4, 1, 0; (8427), 4, 1, 0; (8474), 3, 1, 0; (8477), 3, 1, 0; (8510), 4, 1, 0; (8543), 3, 1, 0; (8572), 6, 2, 1; (8651), 3, 1, 0; (8671), 2, 1, 0; (8674), 4, 1, 0; (8714), 3, 1, 0; (8715), 3, 1, 0; (8776), 3, 1, 0; (8797), 3, 1, 0; (8823), 3, 1, 0; (8831), 6, 2, 50; (8843), 3, 1, 0; (8844), 3, 1, 0; (8847), 3, 1, 0; (8849), 3, 1, 0; (8900), 6, 2, 1; (8927), 3, 1, 0; (8964), 3, 1, 0; (8965), 3, 1, 0; (9004), 3, 1, 0; (9011), 7, 2, 73; (9014), 2, 1, 0; (9015), 3, 1, 0; (9017), 3, 1, 0; (9021), 3, 1, 0; (9043), 3, 1, 0; (9051), 4, 1, 0; (9053), 3, 1, 0; (9062), 3, 1, 0; (9073), 3, 1, 0; (9092), 3, 1, 0; (9109), 3, 1, 0; (9110), 3, 1, 0; (9113), 3, 1, 0; (9117), 3, 1, 0; (9136), 3, 1, 0; (9140), 2, 1, 0; (9143), 4, 1, 0; (9147), 4, 1, 0; (9150), 4, 1, 0; (9154), 4, 1, 0; (9156), 4, 1, 0; (9170), 4, 1, 0; (9177), 8, 2, 8; (9190), 3, 1, 0; (9192), 3, 1, 0; (9195), 3, 1, 0; (9196), 6, 2, 87; (9197), 3, 1, 0; (9198), 8, 2, 12; (9199), 4, 1, 0; (9200), 3, 1, 0; (9204), 4, 1, 0; (9206), 4, 1, 0; (9214), 3, 1, 0; (9215), 8, 2, 8; (9221), 4, 1, 0; (9224), 4, 1, 0; (9239), 4, 1, 0; (9241), 4, 1, 0; (9247), 3, 1, 0; (9254), 7, 2, 80; (9260), 4, 1, 0; (9261), 8, 2, 12; (9269), 4, 1, 0; (9277), 4, 1, 0; (9279), 4, 1, 0; (9281), 4, 1, 0; (9282), 7, 2, 8; (9283), 3, 1, 0; (9302), 4, 1, 0; (9311), 3, 1, 0; (9314), 16, 4, 10; (9318), 4, 1, 0; (9321), 3, 1, 0; (9322), 3, 1, 0; (9323), 3, 1, 0; (9348), 4, 1, 0; (9350), 3, 1, 0; (9353), 7, 2, 80; (9368), 10, 3, 160; (9369), 4, 1, 0; (9374), 8, 2, 12; (9379), 7, 2, 73; (9392), 4, 1, 0; (9401), 3, 1, 0; (9406), 4, 1, 0; (9407), 7, 2, 12; (9410), 3, 1, 0; (9415), 8, 2, 12; (9417), 8, 2, 8; (9419), 4, 1, 0; (9420), 4, 1, 0; (9422), 3, 1, 0; (9442), 3, 1, 0; (9445), 4, 1, 0; (9449), 4, 1, 0; (9474), 4, 1, 0; (9481), 3, 1, 0; (9485), 4, 1, 0; (9486), 4, 1, 0; (9492), 4, 1, 0; (9494), 7, 2, 80; (9495), 3, 1, 0; (9500), 8, 2, 8; (9508), 4, 1, 0; (9518), 4, 1, 0; (9523), 7, 2, 80; (9525), 3, 1, 0; (9527), 8, 2, 11; (9529), 4, 1, 0; (9530), 3, 1, 0; (9532), 4, 1, 0; (9534), 3, 1, 0; (9535), 8, 2, 3; (9537), 4, 1, 0; (9538), 4, 1, 0; (9540), 3, 1, 0; (9543), 3, 1, 0; (9546), 4, 1, 0; (9547), 4, 1, 0; (9549), 4, 1, 0; (9550), 4, 1, 0; (9553), 8, 2, 6; (9556), 4, 1, 0; (9559), 3, 1, 0; (9563), 4, 1, 0; (9567), 7, 2, 12; (9569), 4, 1, 0; (9576), 8, 2, 8; (9579), 7, 2, 73; (9580), 4, 1, 0; (9584), 4, 1, 0; (9585), 4, 1, 0; (9589), 3, 1, 0; (9593), 7, 2, 73; (9594), 4, 1, 0; (9597), 4, 1, 0; (9598), 3, 1, 0; (9599), 4, 1, 0; (9601), 4, 1, 0; (9602), 4, 1, 0; (9603), 8, 2, 11; (9605), 12, 3, 10; (9606), 8, 2, 6; (9610), 3, 1, 0; (9612), 4, 1, 0; (9614), 3, 1, 0; (9615), 4, 1, 0; (9616), 4, 1, 0; (9618), 4, 1, 0; (9619), 4, 1, 0; (9623), 3, 1, 0; (9626), 8, 2, 11; (9628), 4, 1, 0; (9629), 4, 1, 0; (9630), 3, 1, 0; (9637), 16, 4, 10; (9642), 4, 1, 0; (9647), 8, 2, 12; (9649), 4, 1, 0; (9652), 4, 1, 0; (9654), 8, 2, 4; (9655), 8, 2, 3; (9659), 4, 1, 0; (9661), 3, 1, 0; (9663), 11, 3, 80; (9672), 12, 3, 4; (9682), 4, 1, 0; (9683), 4, 1, 0; (9684), 12, 3, 10; (9685), 3, 1, 0; (9688), 8, 1, 0; (9690), 12, 3, 10; (9693), 4, 1, 0; (9695), 8, 2, 12; (9698), 4, 1, 0; (9707), 4, 1, 0; (9708), 3, 1, 0; (9719), 4, 1, 0; (9720), 8, 2, 8; (9727), 3, 1, 0; (9729), 4, 1, 0; (9731), 4, 1, 0; (9738), 7, 2, 80; (9740), 4, 1, 0; (9746), 8, 2, 6; (9748), 4, 1, 0; (9749), 4, 1, 0; (9753), 4, 1, 0; (9755), 4, 1, 0; (9756), 4, 1, 0; (9757), 3, 1, 0; (9758), 4, 1, 0; (9763), 8, 2, 12; (9774), 7, 2, 6; (9776), 7, 2, 81; (9777), 3, 1, 0; (9778), 4, 1, 0; (9779), 3, 1, 0; (9783), 4, 1, 0; (9784), 4, 1, 0; (9786), 3, 1, 0; (9788), 3, 1, 0; (9791), 4, 1, 0; (9798), 4, 1, 0; (9803), 4, 1, 0; (9805), 4, 1, 0; (9806), 3, 1, 0; (9810), 4, 1, 0; (9813), 4, 1, 0; (9815), 4, 1, 0; (9819), 4, 1, 0; (9820), 4, 1, 0; (9824), 3, 1, 0; (9827), 4, 1, 0; (9835), 4, 1, 0; (9836), 8, 2, 12; (9837), 11, 3, 85; (9838), 4, 1, 0; (9839), 4, 1, 0; (9840), 4, 1, 0; (9844), 4, 1, 0; (9846), 4, 1, 0; (9848), 4, 1, 0; (9849), 3, 1, 0; (9850), 4, 1, 0; (9853), 8, 2, 7; (9858), 4, 1, 0; (9860), 4, 1, 0; (9864), 4, 1, 0; (9865), 4, 1, 0; (9876), 4, 1, 0; (9878), 4, 1, 0; (9879), 4, 1, 0; (9887), 8, 2, 4;

2000 APR. 18

M.P.C. 39751

(9964), 7, 2, 80; (9968), 4, 1, 0; (9973), 4, 1, 0; (9976), 4, 1, 0; (9977), 8, 2, 7; (9978), 4, 1, 0; (9980), 8, 2, 5; (9983), 8, 2, 3; (9988), 8, 2, 3; (9989), 4, 1, 0; (9990), 16, 4, 11; (9999), 7, 2, 85; (10001), 4, 1, 0; (10002), 8, 2, 3; (10005), 8, 2, 4; (10006), 8, 2, 3; (10008), 8, 2, 12; (10010), 4, 1, 0; (10023), 4, 1, 0; (10029), 4, 1, 0; (10032), 4, 1, 0; (10036), 12, 3, 7; (10039), 8, 2, 10; (10042), 4, 1, 0; (10043), 4, 1, 0; (10045), 4, 1, 0; (10046), 4, 1, 0; (10048), 4, 1, 0; (10049), 4, 1, 0; (10050), 4, 1, 0; (10052), 8, 2, 11; (10053), 8, 2, 2; (10062), 4, 1, 0; (10064), 4, 1, 0; (10076), 4, 1, 0; (10078), 4, 1, 0; (10079), 4, 1, 0; (10082), 12, 3, 11; (10086), 4, 1, 0; (10098), 8, 2, 3; (10099), 12, 2, 3; (10100), 4, 1, 0; (10117), 8, 2, 12; (10120), 4, 1, 0; (10123), 8, 2, 3; (10128), 8, 2, 2; (10131), 4, 1, 0; (10141), 8, 2, 1; (10144), 4, 1, 0; (10147), 7, 2, 80; (10148), 4, 1, 0; (10152), 4, 1, 0; (10155), 4, 1, 0; (10158), 12, 3, 4; (10164), 8, 2, 2; (10169), 11, 3, 85; (10179), 4, 1, 0; (10185), 12, 3, 4; (10189), 4, 1, 0; (10201), 4, 1, 0; (10204), 4, 1, 0; (10211), 4, 1, 0; (10217), 4, 1, 0; (10223), 12, 3, 4; (10236), 4, 1, 0; (10237), 4, 1, 0; (10238), 4, 1, 0; (10241), 8, 2, 12; (10245), 8, 2, 4; (10249), 4, 1, 0; (10252), 16, 4, 11; (10257), 16, 4, 10; (10263), 4, 1, 0; (10278), 8, 2, 7; (10314), 4, 1, 0; (10343), 8, 2, 3; (10355), 4, 1, 0; (10356), 8, 2, 10; (10377), 4, 1, 0; (10410), 7, 2, 85; (10417), 3, 1, 0; (10421), 8, 2, 3; (10429), 4, 1, 0; (10451), 8, 2, 4; (10492), 3, 1, 0; (10500), 4, 1, 0; (10509), 12, 2, 3; (10556), 4, 1, 0; (10561), 4, 1, 0; (10573), 4, 1, 0; (10616), 4, 1, 0; (10641), 6, 2, 7; (10649), 8, 2, 8; (10753), 4, 1, 0; (10761), 3, 1, 0; (11062), 4, 1, 0; (11129), 3, 1, 0; (11147), 8, 2, 3; (11254), 3, 1, 0; (11261), 8, 2, 3; (11290), 3, 1, 0; (11291), 4, 1, 0; (11293), 4, 1, 0; (11305), 8, 2, 7; (11310), 8, 2, 2; (11316), 4, 1, 0; (11321), 7, 2, 81; (11326), 3, 1, 0; (11332), 4, 1, 0; (11350), 8, 2, 10; (11353), 11, 3, 10; (11356), 16, 3, 5; (11365), 3, 1, 0; (11369), 4, 1, 0; (11378), 4, 1, 0; (11382), 4, 1, 0; (11386), 8, 2, 8; (11390), 3, 1, 0; (11391), 4, 1, 0; (11393), 7, 2, 73; (11435), 3, 1, 0; (11453), 3, 1, 0; (11466), 3, 1, 0; (11473), 3, 1, 0; (11482), 3, 1, 0; (11489), 3, 1, 0; (11490), 3, 1, 0; (11506), 3, 1, 0; (11524), 3, 1, 0; (11546), 3, 1, 0; (11548), 3, 1, 0; (11565), 3, 1, 0; (11605), 3, 1, 0; (11608), 6, 2, 48; (11619), 3, 1, 0; (11621), 4, 1, 0; (11627), 3, 1, 0; (11631), 2, 1, 0; (11635), 3, 1, 0; (11650), 3, 1, 0; (11654), 3, 1, 0; (11666), 4, 1, 0; (11679), 3, 1, 0; (11699), 3, 1, 0; (11711), 3, 1, 0; (11716), 3, 1, 0; (11723), 3, 1, 0; (11739), 3, 1, 0; (11744), 3, 1, 0; (11759), 4, 1, 0; (11765), 3, 1, 0; (11786), 3, 1, 0; (11789), 3, 1, 0; (11800), 3, 1, 0; (11812), 3, 1, 0; (11826), 2, 1, 0; (11827), 3, 1, 0; (11830), 3, 1, 0; (11843), 3, 1, 0; (11853), 2, 1, 0; (11859), 3, 1, 0; (11864), 3, 1, 0; (11901), 3, 1, 0; (11924), 3, 1, 0; (11925), 3, 1, 0; (11932), 3, 1, 0; (11933), 3, 1, 0; (11936), 3, 1, 0; (11943), 3, 1, 0; (11945), 3, 1, 0; (11956), 3, 1, 0; (11958), 2, 1, 0; (11961), 3, 1, 0; (11962), 6, 2, 10; (11974), 3, 1, 0; (11986), 3, 1, 0; (12001), 3, 1, 0; (12004), 3, 1, 0; (12023), 6, 2, 9; (12032), 3, 1, 0; (12038), 3, 1, 0; (12039), 3, 1, 0; (12043), 3, 1, 0; (12061), 3, 1, 0; (12064), 3, 1, 0; (12066), 3, 1, 0; (12097), 3, 1, 0; (12113), 3, 1, 0; (12129), 3, 1, 0; (12135), 3, 1, 0; (12142), 3, 1, 0; (12167), 2, 1, 0; (12193), 3, 1, 0; (12212), 3, 1, 0; (12226), 3, 1, 0; (12233), 3, 1, 0; (12240), 3, 1, 0; (12247), 3, 1, 0; (12249), 3, 1, 0; (12259), 3, 1, 0; (12262), 4, 1, 0; (12268), 2, 1, 0; (12275), 6, 2, 10; (12283), 3, 1, 0; (12289), 3, 1, 0; (12297), 3, 1, 0; (12312), 3, 1, 0; (12316), 3, 1, 0; (12321), 3, 1, 0; (12326), 3, 1, 0; (12337), 3, 1, 0; (12340), 3, 1, 0; (12354), 3, 1, 0; (12357), 3, 1, 0; (12384), 3, 1, 0; (12390), 3, 1, 0; (12399), 3, 1, 0; (12401), 3, 1, 0; (12403), 3, 1, 0; (12420), 1, 1, 0; (12428), 3, 1, 0; (12429), 3, 1, 0; (12432), 3, 1, 0; (12464), 3, 1, 0; (12470), 7, 2, 73; (12471), 3, 1, 0; (12485), 7, 2, 73; (12489), 3, 1, 0; (12502), 3, 1, 0; (12513), 3, 1, 0; (12522), 3, 1, 0; (12527), 1, 1, 0; (12548), 7, 2, 80; (12553), 7, 2, 59; (12558), 3, 1, 0; (12563), 3, 1, 0; (12569), 3, 1, 0; (12576), 3, 1, 0; (12584), 3, 1, 0; (12590), 3, 1, 0; (12593), 3, 1, 0; (12594), 2, 1, 0; (12610), 3, 1, 0; (12629), 3, 1, 0; (12630), 3, 1, 0; (12654), 3, 1, 0; (12657), 7, 2, 80; (12658), 3, 1, 0; (12681), 3, 1, 0; (12693), 3, 1, 0; (12698), 3, 1, 0; (12702), 3, 1, 0; (12710), 7, 2, 73; (12715), 2, 1, 0; (12724), 3, 1, 0; (12742), 3, 1, 0; (12749), 7, 2, 73; (12753), 3, 1, 0; (12767), 3, 1, 0; (12770), 3, 1, 0; (12773), 6, 2, 23; (12779), 3, 1, 0; (12783), 3, 1, 0; (12786), 3, 1, 0; (12803), 3, 1, 0; (12806), 4, 1, 0; (12812), 4, 1, 0; (12814), 4, 1, 0; (12820), 3, 1, 0; (12821), 3, 1, 0; (12836), 3, 1, 0; (12844), 3, 1, 0; (12848), 8, 2, 3; (12871), 3, 1, 0; (12875), 7, 2, 73; (12890), 3, 1, 0; (12908), 3, 1, 0; (12909), 4, 1, 0; (12925), 6, 2, 19; (12927), 6, 2, 31; (12934), 6, 2, 17; (12935), 3, 1, 0; (12947), 3, 1, 0; (12971), 3, 1, 0; (12975), 4, 1, 0; (12976), 3, 1, 0; (12980), 3, 1, 0; (12981), 3, 1, 0; (12983), 3, 1, 0; (12987), 4, 1, 0; (12999), 3, 1, 0; (13009), 4, 1, 0; (13010), 4, 1, 0; (13013), 4, 1, 0; (13020), 3, 1, 0; (13021), 3, 1, 0; (13022), 4, 1, 0; (13023), 4, 1, 0; (13031), 12, 3, 4; (13036), 3, 1, 0; (13037), 4, 1, 0; (13038), 4, 1, 0; (13053), 3, 1, 0; (13059), 8, 2, 2; (13065), 4, 1, 0; (13069), 4, 1, 0; (13072), 4, 1, 0; (13073), 4, 1, 0; (13074), 4, 1, 0; (13076), 3, 1, 0; (13081), 4, 1, 0; (13084), 3, 1, 0; (13087), 4, 1, 0; (13093), 4, 1, 0; (13094), 3, 1, 0; (13109), 4, 1, 0; (13113), 12, 2, 12; (13121), 6, 2, 3; (13132), 8, 2, 8; (13133), 6, 2, 9; (13136), 3, 1, 0; (13137), 3, 1, 0; (13139), 4, 1, 0; (13143), 4, 1, 0; (13147), 3, 1, 0; (13151), 3, 1, 0; (13154), 4, 1, 0; (13157), 4, 1, 0; (13163), 6, 2, 10; (13165), 7, 2, 80; (13170), 3, 1, 0; (13171), 4, 1, 0; (13172), 4, 1, 0; (13173), 7, 2, 73; (13195), 4, 1, 0; (13207), 3, 1, 0; (13209), 3, 1, 0; (13213), 4, 1, 0; (13221), 4, 1, 0; (13222), 4, 1, 0; (13246), 6, 2, 18; (13275), 3, 1, 0; (13276), 3, 1, 0; (13285), 4, 1, 0; (13286), 4, 1, 0; (13288), 4, 1, 0; (13302), 4, 1, 0; (13303), 4, 1, 0; (13312), 4, 1, 0; (13315), 4, 1, 0; (13325), 4, 1, 0; (13336), 3, 1, 0; (13338), 4, 1, 0; (13343), 7, 2, 73; (13349), 3, 1, 0; (13351), 4, 1, 0; (13354), 4, 1, 0; (13357), 4, 1, 0; (13358), 4, 1, 0; (13361), 4, 1, 0; (13365), 4, 1, 0; (13371), 4, 1, 0; (13373), 4, 1, 0; (13374), 4, 1, 0; (13378), 4, 1, 0; (13380), 4, 1, 0; (13382), 4, 1, 0; (13386), 4, 1, 0; (13389), 4, 1, 0; (13390), 3, 1, 0; (13399), 3, 1, 0; (13410), 3, 1, 0; (13411), 3, 1, 0; (13412), 6, 2, 24; (13413), 3, 1, 0; (13414), 6, 2, 14; (13416), 6, 2, 19; (13421), 6, 2, 21; (13422), 6, 2, 13; (13424), 6, 2, 2; (13432), 6, 2, 26; (13436), 3, 1, 0; (13448), 4, 1, 0; (13459), 3, 1, 0; (13470), 3, 1, 0; (13471), 8, 2, 8; (13477), 4, 1, 0; (13478), 4, 1, 0; (13482), 4, 1, 0; (13485), 3, 1, 0; (13486), 4, 1, 0; (13490), 3, 1, 0; (13494), 3, 1, 0; (13495), 4, 1, 0; (13501), 4, 1, 0; (13503), 3, 1,

0; (13504), 4, 1, 0; (13506), 4, 1, 0; (13508), 8, 2, 3; (13512), 4, 1, 0; (13513), 4, 1, 0; (13516), 3, 1, 0; (13517), 4, 1, 0; (13518), 4, 1, 0; (13529), 4, 1, 0; (13533), 3, 1, 0; (13535), 8, 2, 8; (13537), 4, 1, 0; (13543), 3, 1, 0; (13549), 8, 2, 7; (13552), 7, 2, 73; (13555), 4, 1, 0; (13559), 8, 1, 0; (13560), 4, 1, 0; (13568), 8, 2, 8; (13575), 11, 3, 84; (13576), 4, 1, 0; (13579), 4, 1, 0; (13580), 3, 1, 0; (13581), 8, 2, 2; (13591), 8, 2, 8; (13593), 4, 1, 0; (13605), 4, 1, 0; (13607), 4, 1, 0; (13610), 8, 1, 0; (13613), 3, 1, 0; (13615), 4, 1, 0; (13617), 4, 1, 0; (13621), 4, 1, 0; (13622), 3, 1, 0; (13624), 4, 1, 0; (13626), 4, 1, 0; (13628), 4, 1, 0; (13629), 4, 1, 0; (13632), 4, 1, 0; (13633), 4, 1, 0; (13634), 4, 1, 0; (13636), 8, 2, 8; (13638), 8, 2, 2; (13639), 4, 1, 0; (13644), 3, 1, 0; (13649), 3, 1, 0; (13658), 4, 1, 0; (13662), 4, 1, 0; (13665), 4, 1, 0; (13667), 3, 1, 0; (13670), 4, 1, 0; (13675), 3, 1, 0; (13684), 7, 2, 143; (13685), 4, 1, 0; (13688), 7, 2, 73; (13690), 3, 1, 0; (13691), 4, 1, 0; (13692), 4, 1, 0; (13694), 4, 1, 0; (13695), 6, 1, 0; (13702), 3, 1, 0; (13705), 3, 1, 0; (13706), 4, 1, 0; (13707), 3, 1, 0; (13709), 11, 3, 85; (13723), 4, 1, 0; (13728), 4, 1, 0; (13730), 4, 1, 0; (13732), 4, 1, 0; (13740), 4, 1, 0; (13741), 3, 1, 0; (13744), 4, 1, 0; (13745), 3, 1, 0; (13749), 8, 2, 8; (13754), 4, 1, 0; (13757), 7, 2, 73; (13762), 3, 1, 0; (13773), 4, 1, 0; (13774), 4, 1, 0; (13776), 4, 1, 0; (13779), 4, 1, 0; (13785), 3, 1, 0; (13786), 4, 1, 0; (13791), 4, 1, 0; (13794), 4, 1, 0; (13800), 4, 1, 0; (13803), 4, 1, 0; (13804), 3, 1, 0; (13807), 4, 1, 0; (13808), 4, 1, 0; (13809), 4, 1, 0; (13817), 3, 1, 0; (13822), 3, 1, 0; (13825), 3, 1, 0; (13832), 3, 1, 0; (13833), 3, 1, 0; (13834), 3, 1, 0; (13835), 3, 1, 0; (13836), 6, 2, 5; (13837), 6, 2, 3; (13842), 3, 1, 0; (13844), 7, 2, 59; (13857), 3, 1, 0; (13858), 3, 1, 0; (13859), 7, 2, 166; (13863), 9, 3, 15; (13866), 3, 1, 0; (13868), 3, 1, 0; (13874), 4, 1, 0; (13878), 3, 1, 0; (13879), 7, 2, 81; (13880), 3, 1, 0; (13882), 4, 1, 0; (13883), 4, 1, 0; (13889), 4, 1, 0; (13900), 4, 1, 0; (13902), 4, 1, 0; (13903), 4, 1, 0; (13904), 4, 1, 0; (13905), 4, 1, 0; (13907), 4, 1, 0; (13908), 4, 1, 0; (13909), 4, 1, 0; (13910), 3, 1, 0; (13913), 4, 1, 0; (13917), 4, 1, 0; (13918), 4, 1, 0; (13920), 8, 2, 8; (13921), 3, 1, 0; (13922), 8, 2, 7; (13924), 7, 2, 85; (13926), 3, 1, 0; (13927), 4, 1, 0; (13939), 4, 1, 0; (13941), 7, 2, 73; (13944), 3, 1, 0; (13945), 7, 2, 80; (13946), 3, 1, 0; (13947), 4, 1, 0; (13948), 4, 1, 0; (13951), 4, 1, 0; (13952), 4, 1, 0; (13956), 4, 1, 0; (13958), 12, 3, 5; (13960), 4, 1, 0; (13962), 4, 1, 0; (13964), 4, 1, 0; (13970), 4, 1, 0; (13971), 4, 1, 0; (13972), 4, 1, 0; (13973), 4, 1, 0; (13975), 4, 1, 0; (13978), 4, 1, 0; (13979), 4, 1, 0; (13980), 4, 1, 0; (13981), 4, 1, 0; (13982), 4, 1, 0; (13984), 3, 1, 0; (13985), 4, 1, 0; (13986), 4, 1, 0; (13988), 4, 1, 0; (13989), 6, 2, 1; (13990), 12, 3, 10; (13999), 4, 1, 0; (14000), 4, 1, 0; (14002), 4, 1, 0; (14004), 4, 1, 0; (14006), 8, 2, 8; (14007), 16, 4, 11; (14009), 4, 1, 0; (14013), 3, 1, 0; (14014), 4, 1, 0; (14015), 4, 1, 0; (14017), 4, 1, 0; (14019), 4, 1, 0; (14020), 8, 2, 8; (14022), 3, 1, 0; (14023), 4, 1, 0; (14028), 4, 1, 0; (14029), 4, 1, 0; (14030), 4, 1, 0; (14032), 4, 1, 0; (14037), 8, 2, 3; (14038), 4, 1, 0; (14040), 8, 2, 8; (14041), 4, 1, 0; (14043), 4, 1, 0; (14045), 4, 1, 0; (14048), 12, 3, 4; (14049), 4, 1, 0; (14050), 4, 1, 0; (14052), 4, 1, 0; (14058), 16, 4, 5; (14060), 4, 1, 0; (14061), 4, 1, 0; (14062), 12, 3, 11; (14063), 12, 3, 4; (14064), 4, 1, 0; (14068), 4, 1, 0; (14069), 4, 1, 0; (14070), 4, 1, 0; (14072), 3, 1, 0; (14073), 4, 1, 0; (14075), 4, 1, 0; (14077), 4, 1, 0; (14085), 4, 1, 0; (14086), 4, 1, 0; (14087), 4, 1, 0; (14089), 4, 1, 0; (14092), 4, 1, 0; (14095), 4, 1, 0; (14096), 4, 1, 0; (14097), 4, 1, 0; (14100), 4, 1, 0; (14101), 4, 1, 0; (14103), 4, 1, 0; (14104), 3, 1, 0; (14105), 12, 3, 26; (14106), 8, 2, 12; (14107), 4, 1, 0; (14108), 3, 1, 0; (14110), 4, 1, 0; (14111), 4, 1, 0; (14112), 4, 1, 0; (14116), 3, 1, 0; (14118), 4, 1, 0; (14119), 7, 2, 113; (14120), 4, 1, 0; (14124), 4, 1, 0; (14128), 4, 1, 0; (14130), 4, 1, 0; (14132), 4, 1, 0; (14133), 4, 1, 0; (14134), 4, 1, 0; (14137), 3, 1, 0; (14138), 4, 1, 0; (14142), 4, 1, 0; (14146), 3, 1, 0; (14147), 7, 2, 81; (14149), 4, 1, 0; (14155), 4, 1, 0; (14156), 4, 1, 0; (14157), 4, 1, 0; (14158), 4, 1, 0; (14159), 4, 1, 0; (14166), 3, 1, 0; (14167), 4, 1, 0; (14170), 3, 1, 0; (14171), 4, 1, 0; (14174), 4, 1, 0; (14177), 4, 1, 0; (14178), 7, 2, 81; (14179), 4, 1, 0; (14182), 4, 1, 0; (14183), 4, 1, 0; (14184), 7, 2, 80; (14185), 4, 1, 0; (14186), 4, 1, 0; (14187), 4, 1, 0; (14190), 4, 1, 0; (14192), 4, 1, 0; (14195), 4, 1, 0; (14196), 3, 1, 0; (14197), 4, 1, 0; (14198), 4, 1, 0; (14200), 4, 1, 0; (14203), 4, 1, 0; (14205), 4, 1, 0; (14206), 4, 1, 0; (14207), 8, 2, 2; (14214), 6, 2, 26; (14220), 5, 1, 0; (14223), 3, 1, 0; (14224), 3, 1, 0; (14229), 4, 1, 0; (14232), 6, 2, 55; (14239), 7, 2, 432; (14241), 3, 1, 0; (14243), 3, 1, 0; (14246), 3, 1, 0; (14251), 3, 1, 0; (14252), 3, 1, 0; (14253), 4, 1, 0; (14254), 4, 1, 0; (14256), 6, 2, 373; (14257), 4, 1, 0; (14263), 3, 1, 0; (14265), 4, 1, 0; (14266), 8, 2, 6; (14274), 3, 1, 0; (14275), 4, 1, 0; (14276), 4, 1, 0; (14278), 7, 2, 80; (14280), 3, 1, 0; (14281), 4, 1, 0; (14282), 4, 1, 0; (14283), 16, 4, 10; (14284), 8, 2, 12; (14287), 8, 2, 12; (14290), 4, 1, 0; (14291), 7, 2, 10; (14293), 4, 1, 0; (14295), 4, 1, 0; (14298), 4, 1, 0; (14299), 4, 1, 0; (14302), 4, 1, 0; (14305), 4, 1, 0; (14306), 4, 1, 0; (14307), 4, 1, 0; [53920, 10649, 858*, 1998/03/24–2000/04/14]

703 Catalina Sky Survey

C. W. Hergenrother, Space Sciences Building, University of Arizona, Tucson, AZ
85721, U.S.A. [chergen@pir1.lpl.arizona.edu]

Observers C. W. Hergenrother, S. M. Larson, T. B. Spahr, R. E. Hill,
G. A. Esquerdo

0.41-m $f/3$ Schmidt + CCD

USNO-SA2.0, USNO-A2.0

1977 ES₇, 4, 1, 0; 1977 XF₂, 8, 2, 28; 1978 UJ₅, 4, 1, 0; 1979 MK₆, 8, 2, 10; 1979 MX₈, 4, 1, 0; 1979 QX₂, 4, 1, 0; 1980 EF, 4, 1, 0; 1981 EK₁, 4, 1, 0; 1981 EX₂₀, 4, 1, 0; 1981 ED₃₀, 4, 1, 0; 1981 ET₃₁, 4, 1, 0; 1981 EA₃₂, 4, 1, 0; 1981 EE₃₆, 4, 1, 0; 1981 EW₄₆, 12, 3, 33; 1981 EF₄₇, 4, 1, 0; 1981 RW₄, 4, 1, 0; 1981 TH₃, 4, 1, 0; 1981 UQ₂₂, 4, 1, 0; 1982 KA, 4, 1, 0; 1984 SL₄, 4, 1,

0; 1986 WZ₄, 4, 1, 0; 1988 BO₃, 4, 1, 0; 1988 CB₄, 4, 1, 0; 1988 CR₇, 4, 1, 0; 1988 PV₁, 4, 1, 0; 1988 RK₆, 3, 1, 0; 1988 RH₈, 16, 4, 41; 1988 RA₁₃, 4, 1, 0; 1988 UV₄, 4, 1, 0; 1988 XW₄, 4, 1, 0; 1989 AD₆, 8, 3, 32; 1989 GR₁, 4, 1, 0; 1989 GJ₈, 8, 2, 30; 1989 VR₁, 4, 1, 0; 1989 WD₄, 4, 1, 0; 1990 QK₉, 4, 1, 0; 1990 TS₉, 4, 1, 0; 1990 VY₁, 4, 1, 0; 1990 VE₄, 8, 2, 25; 1990 YR₄, 4, 1, 0; 1991 FW₃, 4, 1, 0; 1991 GS₆, 4, 1, 0; 1991 GH₁₁, 8, 2, 7; 1991 NV₆, 4, 1, 0; 1991 PE₆, 4, 1, 0; 1991 PH₁₆, 4, 1, 0; 1991 RQ₄, 4, 1, 0; 1991 RL₁₃, 4, 1, 0; 1991 TE₁₄, 4, 1, 0; 1992 DD₄, 4, 1, 0; 1992 EJ₆, 4, 1, 0; 1992 EA₈, 4, 1, 0; 1992 EV₈, 4, 1, 0; 1992 ET₁₄, 4, 1, 0; 1992 ET₃₂, 8, 2, 32; 1992 EV₃₂, 4, 1, 0; 1992 HD₄, 4, 1, 0; 1992 RE₂, 4, 1, 0; 1992 TG₁, 4, 1, 0; 1992 UN₄, 4, 1, 0; 1992 VF₄, 4, 1, 0; 1992 WK₂, 8, 2, 31; 1993 BL₂, 4, 1, 0; 1993 FG₁, 8, 2, 27; 1993 FM₈, 4, 1, 0; 1993 FY₁₁, 4, 1, 0; 1993 FY₁₉, 4, 1, 0; 1993 FO₂₀, 4, 1, 0; 1993 FX₂₂, 4, 1, 0; 1993 FJ₂₅, 4, 1, 0; 1993 FK₂₉, 4, 1, 0; 1993 FP₃₃, 4, 1, 0; 1993 FY₃₅, 4, 1, 0; 1993 FJ₃₇, 4, 1, 0; 1993 FT₄₂, 4, 1, 0; 1993 FO₅₀, 4, 1, 0; 1993 QM₄, 4, 1, 0; 1993 TH₄, 4, 1, 0; 1993 TK₁₇, 4, 1, 0; 1993 TG₁₈, 4, 1, 0; 1993 TX₃₃, 4, 1, 0; 1993 TL₃₈, 4, 1, 0; 1993 UY₂, 4, 1, 0; 1993 XQ₄, 4, 1, 0; 1994 EK₁, 4, 1, 0; 1994 PK₁₅, 8, 2, 59; 1994 RA₈, 2, 40; 1994 TH₁₅, 4, 1, 0; 1994 VV₂, 4, 1, 0; 1995 UH₁, 4, 1, 0; 1995 UB₃₂, 4, 1, 0; 1995 UO₄₄, 4, 1, 0; 1995 WU₅, 4, 1, 0; 1995 WN₂₀, 4, 1, 0; 1995 YO₁, 4, 1, 0; 1995 YT₂, 4, 1, 0; 1995 YG₃, 4, 1, 0; 1996 AL₁₉, 4, 1, 0; 1996 BA₃, 4, 1, 0; 1996 CQ₁, 4, 1, 0; 1996 EM₁, 4, 1, 0; 1996 ET₁, 4, 1, 0; 1996 GO₁₃, 4, 1, 0; 1996 TR₁₄, 4, 1, 0; 1996 YR₁, 4, 1, 0; 1997 AM₁₁, 4, 1, 0; 1997 AV₁₅, 4, 1, 0; 1997 CL₂₆, 4, 1, 0; 1997 FE₁, 4, 1, 0; 1997 FM₃, 4, 1, 0; 1997 GF₉, 4, 1, 0; 1997 GP₁₆, 4, 1, 0; 1997 GS₁₆, 4, 1, 0; 1997 GX₂₀, 4, 1, 0; 1997 GB₃₆, 4, 1, 0; 1997 GM₄₀, 4, 1, 0; 1997 HF₇, 4, 1, 0; 1997 HP₁₁, 4, 1, 0; 1997 JF₁₆, 4, 1, 0; 1997 LB₆, 4, 1, 0; 1997 PP₂, 4, 1, 0; 1997 QY₄, 4, 1, 0; 1997 QC₁, 4, 1, 0; 1997 RO₄, 4, 1, 0; 1997 SN₁, 4, 1, 0; 1997 SS₃₁, 4, 1, 0; 1997 TV₁₇, 4, 1, 0; 1998 FX₁₅, 4, 1, 0; 1998 FX₁₅, 4, 1, 0; 1998 FV₇₈, 4, 1, 0; 1998 FT₇₉, 4, 1, 0; 1998 HN₂₁, 4, 1, 0; 1998 HT₅₁, 4, 1, 0; 1998 HV₉₅, 4, 1, 0; 1998 HG₉₇, 4, 1, 0; 1998 HQ₉₈, 4, 1, 0; 1998 HW₁₄₈, 4, 1, 0; 1998 KX₁₀, 4, 1, 0; 1998 KG₂₈, 4, 1, 0; 1998 KJ₅₈, 8, 1, 0; 1998 KG₆₄, 4, 1, 0; 1998 MX₄, 4, 1, 0; 1998 MW₂, 4, 1, 0; 1998 OB₄, 4, 1, 0; 1998 OT₁₄, 4, 1, 0; 1998 QC₄, 4, 1, 0; 1998 QQ₃, 4, 1, 0; 1998 QN₆, 4, 1, 0; 1998 QP₆, 4, 1, 0; 1998 QC₇, 4, 1, 0; 1998 QT₁₁, 4, 1, 0; 1998 QE₁₇, 4, 1, 0; 1998 QR₂₁, 4, 1, 0; 1998 QS₃₅, 4, 1, 0; 1998 QH₄₀, 4, 1, 0; 1998 QZ₄₈, 4, 1, 0; 1998 QN₅₁, 4, 1, 0; 1998 QF₅₄, 4, 1, 0; 1998 QJ₇₀, 4, 1, 0; 1998 QB₇₅, 4, 1, 0; 1998 QZ₉₉, 4, 1, 0; 1998 QE₁₀₀, 4, 1, 0; 1998 QR₁₀₂, 4, 1, 0; 1998 RM₃, 4, 1, 0; 1998 RN₂₂, 4, 1, 0; 1998 RV₅₀, 4, 1, 0; 1998 RM₅₄, 4, 1, 0; 1998 RZ₅₇, 4, 1, 0; 1998 RB₆₃, 4, 1, 0; 1998 RK₆₅, 4, 1, 0; 1998 RB₇₄, 4, 1, 0; 1998 RH₇₄, 4, 1, 0; 1998 RP₇₅, 8, 2, 19; 1998 RX₇₉, 4, 1, 0; 1998 RO₈₀, 4, 1, 0; 1998 SM₉, 8, 2, 23; 1998 SS₁₉, 4, 1, 0; 1998 SZ₂₁, 8, 2, 32; 1998 SP₂₂, 4, 1, 0; 1998 SW₂₄, 8, 2, 58; 1998 SZ₂₄, 4, 1, 0; 1998 SO₃₅, 4, 1, 0; 1998 SF₃₇, 4, 1, 0; 1998 SD₄₆, 4, 1, 0; 1998 SK₅₃, 4, 1, 0; 1998 SO₅₇, 4, 1, 0; 1998 SR₆₁, 4, 1, 0; 1998 SU₆₇, 4, 1, 0; 1998 SA₁₁₀, 4, 1, 0; 1998 SD₁₁₀, 4, 1, 0; 1998 SF₁₁₄, 4, 1, 0; 1998 SX₁₁₅, 4, 1, 0; 1998 SA₁₁₈, 4, 1, 0; 1998 ST₁₁₈, 4, 1, 0; 1998 SF₁₂₁, 4, 1, 0; 1998 SD₁₂₅, 4, 1, 0; 1998 SN₁₂₅, 4, 1, 0; 1998 SJ₁₃₀, 4, 1, 0; 1998 SS₁₃₂, 4, 1, 0; 1998 SP₁₃₄, 8, 2, 15; 1998 SW₁₃₄, 4, 1, 0; 1998 SN₁₄₁, 4, 1, 0; 1998 SR₁₄₄, 4, 1, 0; 1998 SM₁₄₅, 4, 1, 0; 1998 SC₁₆₄, 4, 1, 0; 1998 TF₄, 4, 1, 0; 1998 TP₂, 4, 1, 0; 1998 TJ₁₃, 4, 1, 0; 1998 UT₆, 4, 1, 0; 1998 UQ₇, 4, 1, 0; 1998 UX₇, 4, 1, 0; 1998 UE₈, 4, 1, 0; 1998 UO₈, 4, 1, 0; 1998 UY₁₈, 4, 1, 0; 1998 US₂₀, 4, 1, 0; 1998 UC₄₁, 4, 1, 0; 1998 UE₄₃, 4, 1, 0; 1998 UD₂, 4, 1, 0; 1998 VM₆, 4, 1, 0; 1998 VS₆, 4, 1, 0; 1998 VW₁₁, 4, 1, 0; 1998 VO₃₈, 4, 1, 0; 1998 WG₂, 4, 1, 0; 1998 WF₄, 4, 1, 0; 1998 WW₅, 4, 1, 0; 1998 WA₈, 4, 1, 0; 1998 WD₁₂, 4, 1, 0; 1998 WP₁₂, 4, 1, 0; 1998 WJ₁₈, 4, 1, 0; 1998 WY₁₉, 4, 1, 0; 1998 WA₂₀, 4, 1, 0; 1998 WL₂₃, 4, 1, 0; 1998 XE₁₇, 12, 3, 90; 1998 XA₄₀, 4, 1, 0; 1998 XZ₄₉, 4, 1, 0; 1998 XR₅₁, 4, 1, 0; 1998 XV₉₅, 8, 1, 0; 1998 YA₃, 4, 1, 0; 1998 YX₃, 4, 1, 0; 1998 YM₇, 4, 1, 0; 1999 CB₇₇, 4, 1, 0; 1999 PB₈, 8, 2, 43; 1999 RA₁₀, 4, 1, 0; 1999 RC₂₅, 8, 2, 8; 1999 RG₂₅, 4, 1, 0; 1999 RV₂₅, 4, 1, 0; 1999 RX₃₄, 4, 1, 0; 1999 RW₃₉, 4, 1, 0; 1999 RB₄₀, 4, 1, 0; 1999 RM₇₃, 4, 1, 0; 1999 RF₈₀, 4, 1, 0; 1999 RF₈₂, 4, 1, 0; 1999 RF₉₀, 4, 1, 0; 1999 RY₉₀, 4, 1, 0; 1999 RO₉₁, 4, 1, 0; 1999 RP₉₁, 4, 1, 0; 1999 RM₉₂, 4, 1, 0; 1999 RH₉₃, 4, 1, 0; 1999 RO₉₄, 4, 1, 0; 1999 RY₉₄, 4, 1, 0; 1999 RE₉₅, 4, 1, 0; 1999 RL₉₆, 4, 1, 0; 1999 RS₁₀₃, 4, 1, 0; 1999 RJ₁₀₇, 4, 1, 0; 1999 RJ₁₁₇, 4, 1, 0; 1999 RJ₁₂₅, 4, 1, 0; 1999 RL₁₃₃, 4, 1, 0; 1999 RR₁₄₃, 4, 1, 0; 1999 RY₁₄₇, 4, 1, 0; 1999 RK₁₅₀, 4, 1, 0; 1999 RY₁₆₂, 12, 3, 60; 1999 RH₁₆₃, 4, 1, 0; 1999 RX₁₆₄, 4, 1, 0; 1999 RB₁₉₅, 4, 1, 0; 1999 RS₁₉₆, 4, 1, 0; 1999 RT₁₉₆, 4, 1, 0; 1999 RM₁₉₉, 4, 1, 0; 1999 RO₁₉₉, 4, 1, 0; 1999 RN₂₀₀, 12, 3, 65; 1999 RZ₂₀₅, 4, 1, 0; 1999 RJ₂₀₇, 4, 1, 0; 1999 RR₂₀₇, 4, 1, 0; 1999 RX₂₀₇, 4, 1, 0; 1999 RA₂₀₈, 4, 1, 0; 1999 RC₂₀₈, 4, 1, 0; 1999 RB₂₀₉, 4, 1, 0; 1999 RH₂₁₄, 4, 1, 0; 1999 RO₂₁₄, 4, 1, 0; 1999 SZ₁, 4, 1, 0; 1999 SZ₄, 4, 1, 0; 1999 SG₇, 4, 1, 0; 1999 TX₄, 4, 1, 0; 1999 TE₇, 4, 1, 0; 1999 TV₉, 4, 1, 0; 1999 TR₁₀, 4, 1, 0; 1999 TW₁₁, 4, 1, 0; 1999 TY₁₂, 4, 1, 0; 1999 TZ₁₂, 4, 1, 0; 1999 TH₁₃, 4, 1, 0; 1999 TK₁₃, 4, 1, 0; 1999 TL₁₄, 4, 1, 0; 1999 TN₁₄, 4, 1, 0; 1999 TO₁₄, 4, 1, 0; 1999 TW₁₄, 4, 1, 0; 1999 TP₁₅, 4, 1, 0; 1999 TW₁₅, 4, 1, 0; 1999 TF₁₇, 4, 1, 0; 1999 TE₂₀, 4, 1, 0; 1999 TA₂₁, 4, 1, 0; 1999 TB₂₁, 4, 1, 0; 1999 TC₂₃, 8, 1, 0; 1999 TY₂₄, 4, 1, 0; 1999 TG₂₅, 4, 1, 0; 1999 TK₂₅, 4, 1, 0; 1999 TM₂₅, 4, 1, 0; 1999 TN₂₅, 4, 1, 0; 1999 TQ₂₅, 4, 1, 0; 1999 TT₂₅, 4, 1, 0; 1999 TV₂₅, 4, 1, 0; 1999 TN₂₆, 4, 1, 0; 1999 TL₂₈, 4, 1, 0; 1999 TV₂₈, 4, 1, 0; 1999 TW₂₈, 4, 1, 0; 1999 TX₂₈, 4, 1, 0; 1999 TC₂₉, 4, 1, 0; 1999 TD₂₉, 4, 1, 0; 1999 TE₂₉, 4, 1, 0; 1999 TG₂₉, 4, 1, 0; 1999 TH₂₉, 4, 1, 0; 1999 TI₂₉, 4, 1, 0; 1999 TP₂₉, 4, 1, 0; 1999 TR₂₉, 4, 1, 0; 1999 TS₂₉, 4, 1, 0; 1999 TU₂₉, 4, 1, 0; 1999 TV₂₉, 4, 1, 0; 1999 TW₂₉, 4, 1, 0; 1999 TX₂₉, 4, 1, 0; 1999 TC₃₀, 4, 1, 0; 1999 TY₃₀, 4, 1, 0; 1999 TZ₃₀, 8, 2, 29; 1999 TB₃₁, 8, 2, 13; 1999 TJ₃₁, 4, 1, 0; 1999 TM₃₂, 4, 1, 0; 1999 TN₃₂, 4, 1, 0; 1999 TO₃₃, 8, 2, 13; 1999 TE₃₃, 4, 1, 0; 1999 TG₃₃, 4, 1, 0; 1999 TH₃₃, 4, 1, 0; 1999 TI₃₃, 4, 1, 0; 1999 TJ₃₃, 8, 2, 57; 1999 TO₃₄, 4, 1, 0; 1999 TW₃₄, 4, 1, 0; 1999 TZ₃₄, 8, 2, 44; 1999 TB₃₅, 4, 1, 0; 1999 TH₃₅, 8, 2, 20; 1999 TO₃₅, 8, 2, 28; 1999 TP₃₅, 4, 1, 0; 1999 TQ₃₅, 4, 1, 0; 1999 TS₃₅, 4,

1, 0; 1999 TM₃₆, 8, 2, 29; 1999 TV₃₆, 4, 1, 0; 1999 UE₄, 4, 1, 0; 1999 UU₄, 4, 1, 0; 1999 UL₁, 4, 1, 0; 1999 UD₄, 4, 1, 0; 1999 UF₄, 4, 1, 0; 1999 UR₄, 8, 2, 29; 1999 UA₆, 4, 1, 0; 1999 UJ₆, 4, 1, 0; 1999 UN₆, 4, 1, 0; 1999 UW₇, 4, 1, 0; 1999 UB₈, 4, 1, 0; 1999 UV₈, 4, 1, 0; 1999 UR₁₂, 4, 1, 0; 1999 US₁₂, 4, 1, 0; 1999 UB₁₃, 4, 1, 0; 1999 US₁₃, 4, 1, 0; 1999 UU₁₃, 4, 1, 0; 1999 UY₁₅, 4, 1, 0; 1999 UD₁₆, 4, 1, 0; 1999 UF₁₆, 4, 1, 0; 1999 UH₁₆, 4, 1, 0; 1999 UR₂₃, 4, 1, 0; 1999 US₂₃, 4, 1, 0; 1999 UV₂₃, 4, 1, 0; 1999 UG₂₆, 4, 1, 0; 1999 UM₂₆, 4, 1, 0; 1999 UO₂₆, 4, 1, 0; 1999 UZ₂₆, 4, 1, 0; 1999 UT₂₅, 4, 1, 0; 1999 UA₂₇, 4, 1, 0; 1999 UA₃₅, 4, 1, 0; 1999 UZ₃₆, 4, 1, 0; 1999 UF₃₉, 4, 1, 0; 1999 VU₄, 8, 2, 36; 1999 VT₇, 4, 1, 0; 1999 VO₈, 4, 1, 0; 1999 VP₁₂, 4, 1, 0; 1999 VL₁₃, 4, 1, 0; 1999 VM₁₃, 4, 1, 0; 1999 VU₁₃, 4, 1, 0; 1999 VJ₁₄, 4, 1, 0; 1999 VQ₁₅, 4, 1, 0; 1999 VW₁₆, 4, 1, 0; 1999 VN₁₉, 4, 1, 0; 1999 VG₂₁, 4, 1, 0; 1999 VJ₂₁, 4, 1, 0; 1999 VS₂₁, 4, 1, 0; 1999 VJ₂₂, 4, 1, 0; 1999 VM₂₂, 4, 1, 0; 1999 VY₂₂, 4, 1, 0; 1999 VU₂₃, 4, 1, 0; 1999 VV₂₃, 4, 1, 0; 1999 VA₂₄, 4, 1, 0; 1999 VJ₂₇, 4, 1, 0; 1999 VK₂₇, 4, 1, 0; 1999 VV₂₇, 4, 1, 0; 1999 VB₄₄, 4, 1, 0; 1999 VH₄₄, 4, 1, 0; 1999 VK₄₄, 4, 1, 0; 1999 VF₄₅, 4, 1, 0; 1999 VJ₄₅, 8, 2, 18; 1999 VE₄₇, 4, 1, 0; 1999 VF₄₇, 4, 1, 0; 1999 VQ₄₇, 12, 3, 92; 1999 VR₄₇, 4, 1, 0; 1999 VS₄₇, 16, 4, 92; 1999 VT₄₇, 8, 2, 20; 1999 VV₄₇, 4, 1, 0; 1999 VX₄₇, 4, 1, 0; 1999 VE₄₈, 4, 1, 0; 1999 VO₄₈, 4, 1, 0; 1999 VP₄₈, 4, 1, 0; 1999 VC₅₀, 4, 1, 0; 1999 VK₅₅, 4, 1, 0; 1999 VO₅₅, 4, 1, 0; 1999 VA₆₀, 4, 1, 0; 1999 VY₆₂, 4, 1, 0; 1999 VD₆₄, 4, 1, 0; 1999 VQ₆₄, 4, 1, 0; 1999 VB₆₆, 4, 1, 0; 1999 VA₇₉, 4, 1, 0; 1999 VL₇₉, 4, 1, 0; 1999 VO₇₉, 4, 1, 0; 1999 VA₈₀, 4, 1, 0; 1999 VO₈₀, 4, 1, 0; 1999 VB₈₁, 4, 1, 0; 1999 VT₈₇, 4, 1, 0; 1999 VL₈₈, 4, 1, 0; 1999 VP₉₀, 4, 1, 0; 1999 VK₉₁, 4, 1, 0; 1999 VH₁₁₄, 4, 1, 0; 1999 VK₁₁₄, 4, 1, 0; 1999 VM₁₁₄, 4, 1, 0; 1999 VR₁₁₄, 8, 2, 41; 1999 VX₁₁₄, 4, 1, 0; 1999 VH₁₁₅, 4, 1, 0; 1999 VY₁₃₇, 4, 1, 0; 1999 VD₁₃₈, 4, 1, 0; 1999 VS₁₄₃, 4, 1, 0; 1999 VU₁₄₃, 4, 1, 0; 1999 VJ₁₄₅, 4, 1, 0; 1999 VQ₁₄₈, 8, 2, 28; 1999 VA₁₅₀, 7, 2, 36; 1999 VD₁₅₀, 8, 2, 36; 1999 VH₁₅₀, 4, 1, 0; 1999 VO₁₅₁, 4, 1, 0; 1999 VF₁₅₇, 8, 2, 18; 1999 VS₁₅₈, 12, 3, 44; 1999 VJ₁₅₉, 8, 2, 13; 1999 VL₁₅₉, 8, 2, 23; 1999 VJ₁₆₀, 4, 1, 0; 1999 VD₁₆₅, 4, 1, 0; 1999 VB₁₆₆, 8, 2, 13; 1999 VC₁₆₆, 8, 2, 13; 1999 VW₁₆₇, 4, 1, 0; 1999 WA₁, 4, 1, 0; 1999 WR₁, 4, 1, 0; 1999 WV₁, 4, 1, 0; 1999 WM₂, 4, 1, 0; 1999 WT₅, 8, 2, 29; 1999 WC₆, 4, 1, 0; 1999 WH₆, 4, 1, 0; 1999 WH₉, 4, 1, 0; 1999 WL₉, 4, 1, 0; 1999 WR₉, 4, 1, 0; 1999 WS₉, 4, 1, 0; 1999 WU₉, 4, 1, 0; 1999 WR₁₂, 8, 2, 31; 1999 WS₁₃, 4, 1, 0; 1999 WL₁₆, 4, 1, 0; 1999 WA₁₇, 4, 1, 0; 1999 WJ₁₇, 12, 3, 42; 1999 WM₁₇, 4, 1, 0; 1999 XW₄, 4, 1, 0; 1999 XP₇, 4, 1, 0; 1999 XX₇, 4, 1, 0; 1999 XE₁₃, 4, 1, 0; 1999 XJ₁₃, 4, 1, 0; 1999 XK₁₃, 4, 1, 0; 1999 XS₁₃, 4, 1, 0; 1999 XD₁₇, 4, 1, 0; 1999 XY₁₇, 4, 1, 0; 1999 XB₁₈, 4, 1, 0; 1999 XG₁₈, 4, 1, 0; 1999 XE₁₉, 8, 2, 27; 1999 XX₁₉, 8, 2, 29; 1999 XZ₁₉, 4, 1, 0; 1999 XB₂₀, 4, 1, 0; 1999 XJ₂₁, 4, 1, 0; 1999 XD₂₂, 4, 1, 0; 1999 XL₂₂, 4, 1, 0; 1999 XB₂₃, 4, 1, 0; 1999 XQ₂₄, 4, 1, 0; 1999 XU₂₄, 4, 1, 0; 1999 XA₂₅, 4, 1, 0; 1999 XC₂₅, 4, 1, 0; 1999 XJ₂₅, 4, 1, 0; 1999 XK₂₅, 4, 1, 0; 1999 XY₂₆, 4, 1, 0; 1999 XZ₂₆, 4, 1, 0; 1999 XE₂₇, 4, 1, 0; 1999 XJ₂₇, 4, 1, 0; 1999 XW₂₇, 4, 1, 0; 1999 XL₂₈, 4, 1, 0; 1999 XB₃₂, 4, 1, 0; 1999 XU₃₂, 4, 1, 0; 1999 XE₃₃, 4, 1, 0; 1999 XX₃₃, 4, 1, 0; 1999 XB₃₆, 4, 1, 0; 1999 XC₃₇, 4, 1, 0; 1999 XL₃₈, 4, 1, 0; 1999 XQ₃₈, 8, 1, 0; 1999 XL₄₀, 8, 2, 26; 1999 XU₄₀, 4, 1, 0; 1999 XB₄₁, 4, 1, 0; 1999 XU₄₁, 4, 1, 0; 1999 XB₄₃, 4, 1, 0; 1999 XD₄₄, 4, 1, 0; 1999 XG₄₄, 4, 1, 0; 1999 XV₄₄, 4, 1, 0; 1999 XO₄₆, 4, 1, 0; 1999 XR₄₇, 4, 1, 0; 1999 XK₈₆, 4, 1, 0; 1999 XX₈₆, 4, 1, 0; 1999 XM₉₀, 4, 1, 0; 1999 XT₉₈, 4, 1, 0; 1999 XH₁₀₀, 4, 1, 0;

2000 APR. 18

M.P.C. 39753

8, 1, 0; 2000 AU₁₂₇, 4, 1, 0; 2000 AA₁₂₈, 4, 1, 0; 2000 AE₁₂₈, 8, 2, 2; 2000 AM₁₂₈, 8, 2, 88; 2000 AA₁₂₉, 4, 1, 0; 2000 AD₁₂₉, 4, 1, 0; 2000 AS₁₂₉, 4, 1, 0; 2000 AU₁₂₉, 4, 1, 0; 2000 AV₁₂₉, 4, 1, 0; 2000 AW₁₂₉, 4, 1, 0; 2000 AY₁₂₉, 4, 1, 0; 2000 AC₁₃₀, 4, 1, 0; 2000 AM₁₃₀, 4, 1, 0; 2000 AQ₁₃₆, 8, 2, 35; 2000 AV₁₃₆, 4, 1, 0; 2000 AJ₁₃₇, 4, 1, 0; 2000 AJ₁₃₇, 4, 1, 0; 2000 AW₁₃₇, 8, 2, 55; 2000 AX₁₃₇, 4, 1, 0; 2000 AY₁₃₇, 8, 2, 10; 2000 AB₁₃₈, 4, 1, 0; 2000 AF₁₃₈, 8, 2, 28; 2000 AM₁₃₉, 12, 3, 119; 2000 AX₁₃₉, 8, 2, 20; 2000 AZ₁₃₉, 4, 1, 0; 2000 AC₁₄₀, 4, 1, 0; 2000 AE₁₄₀, 4, 1, 0; 2000 AD₁₄₁, 4, 1, 0; 2000 AG₁₄₁, 4, 1, 0; 2000 AN₁₄₁, 4, 1, 0; 2000 AT₁₄₁, 4, 1, 0; 2000 AU₁₄₁, 4, 1, 0; 2000 AY₁₄₁, 4, 1, 0; 2000 AB₁₄₂, 4, 1, 0; 2000 AO₁₄₃, 4, 1, 0; 2000 AB₁₄₄, 4, 1, 0; 2000 AE₁₄₄, 4, 1, 0; 2000 AF₁₄₄, 4, 1, 0; 2000 AN₁₄₄, 4, 1, 0; 2000 AO₁₄₄, 4, 1, 0; 2000 AP₁₄₄, 4, 1, 0; 2000 AS₁₄₄, 4, 1, 0; 2000 AT₁₄₄, 4, 1, 0; 2000 AX₁₄₄, 16, 4, 107; 2000 AZ₁₅₂, 4, 1, 0; 2000 AU₁₅₄, 4, 1, 0; 2000 AJ₁₅₉, 4, 1, 0; 2000 AG₁₆₁, 8, 2, 17; 2000 AM₁₆₂, 16, 4, 99; 2000 AB₁₆₈, 4, 1, 0; 2000 AC₁₆₈, 4, 1, 0; 2000 AP₁₈₅, 8, 2, 29; 2000 AH₁₈₆, 4, 1, 0; 2000 AA₁₈₇, 4, 1, 0; 2000 AE₁₈₇, 4, 1, 0; 2000 AF₁₉₆, 4, 1, 0; 2000 AJ₁₉₈, 4, 1, 0; 2000 AM₁₉₈, 4, 1, 0; 2000 AN₁₉₈, 4, 1, 0; 2000 AT₁₉₈, 8, 2, 25; 2000 AY₁₉₉, 4, 1, 0; 2000 AZ₁₉₉, 4, 1, 0; 2000 AA₂₀₀, 4, 1, 0; 2000 AS₂₀₀, 4, 1, 0; 2000 AQ₂₀₁, 4, 1, 0; 2000 AG₂₀₃, 4, 1, 0; 2000 AO₂₀₃, 4, 1, 0; 2000 AW₂₁₅, 4, 1, 0; 2000 AF₂₂₂, 4, 1, 0; 2000 AF₂₂₇, 4, 1, 0; 2000 AS₂₃₀, 4, 1, 0; 2000 AJ₂₃₃, 4, 1, 0; 2000 AY₂₃₅, 4, 1, 0; 2000 AQ₂₃₆, 4, 1, 0; 2000 AT₂₃₆, 4, 1, 0; 2000 AH₂₃₇, 4, 1, 0; 2000 AO₂₃₇, 4, 1, 0; 2000 AR₂₃₇, 4, 1, 0; 2000 AW₂₃₇, 4, 1, 0; 2000 AJ₂₃₈, 8, 2, 23; 2000 AN₂₃₉, 8, 2, 81; 2000 AS₂₃₉, 4, 1, 0; 2000 AW₂₃₉, 4, 1, 0; 2000 AD₂₄₀, 8, 1, 0; 2000 AE₂₄₀, 4, 1, 0; 2000 AD₂₄₁, 8, 2, 53; 2000 AZ₂₄₁, 8, 2, 89; 2000 AC₂₄₂, 8, 2, 25; 2000 AG₂₄₂, 4, 1, 0; 2000 AM₂₄₂, 8, 2, 79; 2000 AS₂₄₂, 4, 1, 0; 2000 AB₂₄₃, 8, 2, 23; 2000 AM₂₄₃, 8, 2, 25; 2000 AN₂₄₃, 8, 2, 25; 2000 AK₂₄₄, 4, 1, 0; 2000 AG₂₄₆, 4, 1, 0; 2000 AK₂₄₆, 4, 1, 0; 2000 BE₁, 4, 1, 0; 2000 BV₃, 4, 1, 0; 2000 BE₆, 4, 1, 0; 2000 BZ₈, 4, 1, 0; 2000 BC₁₄, 4, 1, 0; 2000 BE₁₄, 4, 1, 0; 2000 BT₁₄, 4, 1, 0; 2000 BB₁₅, 4, 1, 0; 2000 BO₁₅, 4, 1, 0; 2000 BE₁₆, 4, 1, 0; 2000 BQ₂₂, 4, 1, 0; 2000 BR₂₂, 4, 1, 0; 2000 BU₂₂, 4, 1, 0; 2000 BQ₂₃, 4, 1, 0; 2000 BL₂₆, 4, 1, 0; 2000 BS₂₉, 4, 1, 0; 2000 CP₂, 4, 1, 0; 2000 CB₄, 4, 1, 0; 2000 CM₁₄, 4, 1, 0; 2000 CD₁₈, 4, 1, 0; 2000 CF₂₁, 4, 1, 0; 2000 CP₂₄, 8, 2, 27; 2000 CZ₂₆, 4, 1, 0; 2000 CC₂₈, 8, 126; 2000 CQ₃₁, 4, 1, 0; 2000 CU₃₆, 4, 1, 0; 2000 CH₃₉, 8, 2, 28; 2000 CO₄₃, 4, 1, 0; 2000 CQ₄₃, 4, 1, 0; 2000 CA₄₅, 8, 2, 29; 2000 CT₄₇, 4, 1, 0; 2000 CT₄₈, 4, 1, 0; 2000 CR₄₉, 4, 1, 0; 2000 CO₅₁, 4, 1, 0; 2000 CH₅₃, 4, 1, 0; 2000 CT₅₃, 4, 1, 0; 2000 CH₅₆, 4, 1, 0; 2000 CZ₅₇, 4, 1, 0; 2000 CD₅₈, 4, 1, 0; 2000 CF₅₈, 4, 1, 0; 2000 CG₅₈, 8, 2, 125; 2000 CJ₅₈, 4, 1, 0; 2000 CM₅₈, 4, 1, 0; 2000 CN₅₈, 4, 1, 0; 2000 CO₅₈, 4, 1, 0; 2000 CP₅₈, 4, 1, 0; 2000 CL₆₁, 4, 1, 0; 2000 CO₆₁, 4, 1, 0; 2000 CB₆₂, 4, 1, 0; 2000 CD₆₃, 4, 1, 0; 2000 CK₆₃, 4, 1, 0; 2000 CQ₆₃, 4, 1, 0; 2000 CZ₆₃, 4, 1, 0; 2000 CF₆₄, 4, 1, 0; 2000 CW₆₅, 4, 1, 0; 2000 CB₆₇, 4, 1, 0; 2000 CK₇₀, 4, 1, 0; 2000 CL₇₀, 4, 1, 0; 2000 CM₇₀, 4, 1, 0; 2000 CQ₇₀, 4, 1, 0; 2000 CS₇₀, 8, 1, 0; 2000 CY₇₀, 4, 1, 0; 2000 CJ₇₁, 4, 1, 0; 2000 CJ₇₁, 4, 1, 0; 2000 CN₇₁, 4, 1, 0; 2000 CP₇₁, 4, 1, 0; 2000 CR₇₁, 4, 1, 0; 2000 CT₇₅, 4, 1, 0; 2000 CZ₇₆, 4, 1, 0; 2000 CD₇₇, 4, 1, 0; 2000 CO₈₀, 4, 1, 0; 2000 CB₈₅, 4, 1, 0; 2000 CP₈₅, 4, 1, 0; 2000 CH₈₈, 4, 1, 0; 2000 CM₈₈, 4, 1, 0; 2000 CN₈₈, 4, 1, 0; 2000 CO₈₈, 4, 1, 0; 2000 CX₈₈, 4, 1, 0; 2000 CA₈₉, 4, 1, 0; 2000 CD₈₉, 4, 1, 0; 2000 CE₈₉, 12, 3, 30; 2000 CF₈₉, 4, 1, 0; 2000 CP₈₉, 4, 1, 0; 2000 CQ₈₉, 4, 1, 0; 2000 CU₉₂, 4, 1, 0; 2000 CV₉₂, 12, 3, 25; 2000 CY₉₂, 8, 2, 5; 2000 CZ₉₂, 4, 1, 0; 2000 CE₉₃, 4, 1, 0; 2000 CF₉₃, 8, 2, 10; 2000 CH₉₃, 4, 1, 0; 2000 CS₉₃, 4, 1, 0; 2000 CB₉₄, 4, 1, 0; 2000 CJ₉₄, 4, 1, 0; 2000 CN₉₄, 4, 1, 0; 2000 CO₉₄, 4, 1, 0; 2000 CQ₉₄, 8, 2, 16; 2000 CT₉₄, 4, 1, 0; 2000 CU₉₄, 4, 1, 0; 2000 CW₉₄, 4, 1, 0; 2000 CY₉₄, 4, 1, 0; 2000 CD₉₅, 4, 1, 0; 2000 CO₉₆, 8, 2, 26; 2000 CU₁₀₂, 4, 1, 0; 2000 CP₁₀₃, 4, 1, 0; 2000 CR₁₀₃, 4, 1, 0; 2000 CU₁₀₃, 8, 2, 23; 2000 CK₁₀₄, 4, 1, 0; 2000 CS₁₀₆ *, 4, 1, 0; 2000 CX₁₀₆ *, 4, 1, 0; 2000 CZ₁₀₆ *, 4, 1, 0; 2000 CA₁₀₇ *, 4, 1, 0; 2000 CB₁₀₇ *, 4, 1, 0; 2000 CA₁₀₈ *, 4, 1, 0; 2000 CB₁₀₈ *, 4, 1, 0; 2000 CC₁₀₈ *, 4, 1, 0; 2000 CD₁₀₈ *, 4, 1, 0; 2000 CE₁₀₈ *, 4, 1, 0; 2000 CF₁₀₈ *, 4, 1, 0; 2000 CG₁₀₈ *, 4, 1, 0; 2000 CH₁₀₈ *, 4, 1, 0; 2000 CJ₁₀₈ *, 4, 1, 0; 2000 CK₁₀₈ *, 4, 1, 0; 2000 CL₁₀₈ *, 4, 1, 0; 2000 CM₁₀₈ *, 4, 1, 0; 2000 CN₁₀₈ *, 4, 1, 0; 2000 CO₁₀₈ *, 4, 1, 0; 2000 CP₁₀₈ *, 4, 1, 0; 2000 CQ₁₀₈ *, 4, 1, 0; 2000 CR₁₀₈ *, 4, 1, 0; 2000 CS₁₀₈ *, 4, 1, 0; 2000 CT₁₀₈ *, 4, 1, 0; 2000 CD₁₀₉ *, 4, 1, 0; 2000 CE₁₀₉ *, 8, 2, 25; 2000 CF₁₀₉ *, 4, 1, 0; 2000 CG₁₀₉ *, 4, 1, 0; 2000 CH₁₀₉ *, 4, 1, 0; 2000 CJ₁₀₉ *, 4, 1, 0; 2000 CK₁₀₉ *, 4, 1, 0; 2000 CL₁₁₁ *, 4, 1, 0; 2000 CM₁₁₁ *, 4, 1, 0; 2000 CN₁₁₁ *, 4, 1, 0; 2000 CO₁₁₁ *, 8, 2, 19; 2000 CP₁₁₁ *, 8, 2, 19; 2000 CR₁₁₁ *, 4, 1, 0; 2000 CS₁₁₁ *, 4, 1, 0; 2000 CT₁₁₁ *, 4, 1, 0; 2000 CU₁₁₁ *, 4, 1, 0; 2000 CZ₁₁₁ *, 8, 2, 23; 2000 CA₁₁₂ *, 4, 1, 0; 2000 CB₁₁₂ *, 4, 1, 0; 2000 CC₁₁₂ *, 4, 1, 0; 2000 CE₁₁₂ *, 4, 1, 0; 2000 CF₁₁₂ *, 4, 1, 0; 2000 CG₁₁₂ *, 4, 1, 0; 2000 CH₁₁₂ *, 8, 2, 23; 2000 CJ₁₁₂ *, 4, 1, 0; 2000 CK₁₁₂ *, 4, 1, 0; 2000 CL₁₁₂ *, 4, 1, 0; 2000 CM₁₁₂ *, 4, 1, 0; 2000 CN₁₁₂ *, 4, 1, 0; 2000 CO₁₁₂ *, 4, 1, 0; 2000 CR₁₁₂ *, 4, 1, 0; 2000 CS₁₁₂ *, 4, 1, 0; 2000 CT₁₁₂ *, 4, 1, 0; 2000 CU₁₁₂ *, 4, 1, 0; 2000 CV₁₁₂ *, 4, 1, 0; 2000 CX₁₁₂ *, 4, 1, 0; 2000 CY₁₁₂ *, 4, 1, 0; 2000 CZ₁₁₂ *, 4, 1, 0; 2000 DA₄, 4, 1, 0; 2000 DQ₂, 4, 1, 0; 2000 DD₃, 4, 1, 0; 2000 DD₃, 4, 1, 0; 2000 DD₄, 4, 1, 0; 2000 DE₄, 8, 2, 7; 2000 DH₄, 4, 1, 0; 2000 DJ₄, 8, 2, 19; 2000 DL₄, 4, 1, 0; 2000 DM₄, 4, 1, 0; 2000 DN₄, 4, 1, 0; 2000 DO₄, 4, 1, 0; 2000 DR₄, 8, 2, 82; 2000 DS₄, 4, 1, 0; 2000 DE₅, 4, 1, 0; 2000 DQ₆, 4, 1, 0; 2000 DE₇, 4, 1, 0; 2000 DN₇, 4, 1, 0; 2000 DK₁₁, 4, 1, 0; 2000 DH₁₆, 4, 1, 0; 2000 DW₁₉, 4, 1, 0; 2000 DC₂₃, 4, 1, 0; 2000 DG₂₃, 4, 1, 0; 2000 DJ₂₃, 4, 1, 0; 2000 DH₂₄, 4, 1, 0; 2000 DJ₂₄, 4, 1, 0; 2000 DO₂₄, 4, 1, 0; 2000 DP₂₄, 4, 1, 0; 2000 DA₂₇, 12, 3, 77; 2000 DE₂₉, 4, 1, 0; 2000 DS₂₉, 4, 1, 0; 2000 DP₃₂, 4, 1, 0; 2000 DJ₃₃, 4, 1, 0; 2000 DS₃₅, 4, 1, 0; 2000 DU₃₅, 4, 1, 0; 2000 DA₃₆, 4, 1, 0; 2000 DE₃₇, 4, 1, 0; 2000 DN₃₇, 4,

1, 0; 2000 DA₄₁, 4, 1, 0; 2000 DC₄₉, 4, 1, 0; 2000 DD₆₈, 4, 1, 0; 2000 DC₆₉, 4, 1, 0; 2000 DK₆₉, 4, 1, 0; 2000 DR₆₉, 4, 1, 0; 2000 DU₆₉, 4, 1, 0; 2000 DW₆₉, 4, 1, 0; 2000 DD₇₁, 4, 1, 0; 2000 DF₇₁, 4, 1, 0; 2000 DG₇₁, 4, 1, 0; 2000 DH₇₁, 4, 1, 0; 2000 DQ₇₁, 4, 1, 0; 2000 DR₇₁, 4, 1, 0; 2000 DY₇₂, 8, 2, 10; 2000 DA₇₃, 4, 1, 0; 2000 DP₇₃, 4, 1, 0; 2000 DQ₇₃, 4, 1, 0; 2000 DW₇₃, 4, 1, 0; 2000 DH₇₄, 4, 1, 0; 2000 DL₇₄, 4, 1, 0; 2000 DR₇₄, 4, 1, 0; 2000 DT₇₄, 4, 1, 0; 2000 DU₇₄, 4, 1, 0; 2000 DX₇₄, 4, 1, 0; 2000 DE₇₅, 4, 1, 0; 2000 DE₇₅, 4, 1, 0; 2000 DJ₇₆, 4, 1, 0; 2000 DL₇₆, 4, 1, 0; 2000 DF₇₇, 4, 1, 0; 2000 DD₇₈, 8, 2, 11; 2000 DS₇₈, 4, 1, 0; 2000 DW₇₈, 4, 1, 0; 2000 DZ₇₈, 4, 1, 0; 2000 DA₇₉, 4, 1, 0; 2000 DG₇₉, 4, 1, 0; 2000 DV₇₉, 4, 1, 0; 2000 DZ₇₉, 4, 1, 0; 2000 DO₈₀, 4, 1, 0; 2000 DD₈₁, 4, 1, 0; 2000 DP₈₂, 4, 1, 0; 2000 DX₈₂, 4, 1, 0; 2000 DA₈₃, 8, 2, 8; 2000 DB₈₃, 8, 2, 19; 2000 DD₈₃, 8, 2, 19; 2000 DK₈₃, 4, 1, 0; 2000 DM₈₃, 8, 2, 19; 2000 DO₈₃, 4, 1, 0; 2000 DR₈₃, 4, 1, 0; 2000 DT₈₃, 4, 1, 0; 2000 DN₈₄, 4, 1, 0; 2000 DQ₈₄, 8, 2, 27; 2000 DY₈₄, 4, 1, 0; 2000 DZ₈₄, 4, 1, 0; 2000 DE₈₅, 8, 2, 19; 2000 DJ₈₅, 4, 1, 0; 2000 DO₈₅, 4, 1, 0; 2000 DR₈₅, 4, 1, 0; 2000 DT₈₅, 4, 1, 0; 2000 DL₈₇, 4, 1, 0; 2000 DY₈₇, 12, 3, 99; 2000 DC₉₂, 4, 1, 0; 2000 DY₉₂, 4, 1, 0; 2000 DM₉₃, 8, 2, 19; 2000 DS₉₃, 4, 1, 0; 2000 DT₉₃, 8, 2, 19; 2000 DZ₉₃, 4, 1, 0; 2000 DA₉₄, 4, 1, 0; 2000 DB₉₄, 4, 1, 0; 2000 DG₉₄, 4, 1, 0; 2000 DH₉₄, 4, 1, 0; 2000 DL₉₄, 4, 1, 0; 2000 DU₉₄, 4, 1, 0; 2000 DW₉₄, 4, 1, 0; 2000 DA₉₅, 4, 1, 0; 2000 DD₉₅, 8, 2, 19; 2000 DG₉₅, 4, 1, 0; 2000 DG₉₅, 8, 2, 19; 2000 DD₉₇, 4, 1, 0; 2000 DM₉₇, 4, 1, 0; 2000 DP₉₇, 4, 1, 0; 2000 DT₉₇, 4, 1, 0; 2000 DU₉₇, 4, 1, 0; 2000 DY₉₇, 4, 1, 0; 2000 DJ₉₈, 4, 1, 0; 2000 DN₉₈, 4, 1, 0; 2000 DV₉₈, 4, 1, 0; 2000 DA₉₉, 4, 1, 0; 2000 DP₉₉, 4, 1, 0; 2000 DT₉₉, 4, 1, 0; 2000 DC₁₀₀, 4, 1, 0; 2000 DD₁₀₀, 4, 1, 0; 2000 DF₁₀₀, 4, 1, 0; 2000 DH₁₀₀, 4, 1, 0; 2000 DN₁₀₀, 4, 1, 0; 2000 DO₁₀₀, 4, 1, 0; 2000 DR₁₀₀, 4, 1, 0; 2000 DW₁₀₀, 4, 1, 0; 2000 DB₁₀₁, 4, 1, 0; 2000 DC₁₀₁, 4, 1, 0; 2000 DD₁₀₁, 4, 1, 0; 2000 DE₁₀₁, 4, 1, 0; 2000 DM₁₀₁, 4, 1, 0; 2000 DO₁₀₁, 4, 1, 0; 2000 DX₁₀₁, 4, 1, 0; 2000 DZ₁₀₁, 8, 1, 0; 2000 DB₁₀₂, 4, 1, 0; 2000 DH₁₀₂, 4, 1, 0; 2000 DK₁₀₂, 4, 1, 0; 2000 DP₁₀₂, 4, 1, 0; 2000 DQ₁₀₂, 4, 1, 0; 2000 DV₁₀₂, 4, 1, 0; 2000 DW₁₀₂, 4, 1, 0; 2000 DX₁₀₂, 4, 1, 0; 2000 DA₁₀₃, 4, 1, 0; 2000 DC₁₀₃, 4, 1, 0; 2000 DR₁₀₃, 4, 1, 0; 2000 DT₁₀₃, 4, 1, 0; 2000 DU₁₀₃, 4, 1, 0; 2000 DV₁₀₃, 4, 1, 0; 2000 DL₁₀₄, 4, 1, 0; 2000 DW₁₀₄, 4, 1, 0; 2000 DO₁₀₆, 4, 1, 0; 2000 DU₁₀₆, 4, 1, 0; 2000 DA₁₀₇, 4, 1, 0; 2000 DZ₁₀₇, 4, 1, 0; 2000 DA₁₀₈, 8, 2, 19; 2000 DC₁₀₈, 4, 1, 0; 2000 DH₁₀₈, 4, 1, 0; 2000 DX₁₀₈, 4, 1, 0; 2000 DZ₁₀₈, 4, 1, 0; 2000 DN₁₀₉, 4, 1, 0; 2000 DT₁₁₀, 4, 1, 0; 2000 DY₁₁₀, 4, 1, 0; 2000 EA₄, 1, 0; 2000 EP₄, 1, 0; 2000 ER₄, 4, 1, 0; 2000 ES₄, 4, 1, 0; 2000 EQ₃, 4, 1, 0; 2000 EV₅, 4, 1, 0; 2000 ED₆, 4, 1, 0; 2000 EE₈, 4, 1, 0; 2000 EN₁₀, 4, 1, 0; 2000 ET₁₀, 8, 2, 10; 2000 EU₁₀, 4, 1, 0; 2000 EV₁₀, 4, 1, 0; 2000 EE₁₁, 4, 1, 0; 2000 EN₁₁, 4, 1, 0; 2000 EP₁₁, 4, 1, 0; 2000 EC₁₂, 4, 1, 0; 2000 EO₁₂, 4, 1, 0; 2000 EP₁₂, 4, 1, 0; 2000 EC₁₃, 4, 1, 0; 2000 EE₁₃, 4, 1, 0; 2000 EK₁₃, 4, 1, 0; 2000 EQ₁₃, 4, 1, 0; 2000 EM₁₅, 4, 1, 0; 2000 EN₁₆, 8, 2, 11; 2000 EW₁₆, 4, 1, 0; 2000 EX₁₆, 4, 1, 0; 2000 EV₁₆, 8, 2, 24; 2000 EC₁₇, 4, 1, 0; 2000 EE₁₇, 4, 1, 0; 2000 EJ₁₇, 4, 1, 0; 2000 EV₁₇, 4, 1, 0; 2000 EX₁₇, 4, 1, 0; 2000 ET₁₈, 4, 1, 0; 2000 EE₁₉, 4, 1, 0; 2000 EW₁₉, 4, 1, 0; 2000 ET₂₀, 4, 1, 0; 2000 EV₂₀, 4, 1, 0; 2000 EB₂₁, 4, 1, 0; 2000 EC₂₁, 4, 1, 0; 2000 ED₂₁, 8, 2, 52; 2000 EU₂₅, 4, 1, 0; 2000 EV₂₅, 4, 1, 0; 2000 EN₂₆, 4, 1, 0; 2000 EP₂₆, 4, 1, 0; 2000 EV₂₆, 4, 1, 0; 2000 EU₂₇, 4, 1, 0; 2000 EB₂₈, 4, 1, 0; 2000 EJ₂₉, 4, 1, 0; 2000 ER₂₉, 8, 2, 19; 2000 ES₂₉, 4, 1, 0; 2000 EF₃₀, 4, 1, 0; 2000 EJ₃₀, 4, 1, 0; 2000 EK₃₀, 4, 1, 0; 2000 EM₃₂, 4, 1, 0; 2000 EO₃₂, 4, 1, 0; 2000 EQ₃₂, 4, 1, 0; 2000 ET₃₂, 4, 1, 0; 2000 EE₃₃, 4, 1, 0; 2000 EN₃₃, 4, 1, 0; 2000 ER₃₆, 4, 1, 0; 2000 ES₃₆, 8, 2, 32; 2000 EV₃₆, 8, 2, 32; 2000 EW₃₆, 4, 1, 0; 2000 EY₃₆, 4, 1, 0; 2000 EZ₃₆, 4, 1, 0; 2000 EB₃₇, 8, 2, 32; 2000 EC₃₇, 4, 1, 0; 2000 ED₃₇, 4, 1, 0; 2000 EF₃₇, 4, 1, 0; 2000 ET₃₇, 4, 1, 0; 2000 EU₃₇, 4, 1, 0; 2000 EV₃₇, 4, 1, 0; 2000 EW₃₇, 8, 2, 32; 2000 EX₃₇, 12, 3, 32; 2000 EY₃₇, 8, 2, 32; 2000 EA₃₈, 8, 2, 32; 2000 EB₃₈, 8, 2, 32; 2000 EQ₃₈, 4, 1, 0; 2000 EE₃₉, 4

2000 APR. 18

M.P.C. 39755

[illegible]

1, 0; (3949), 4, 1, 0; (4323), 4, 1, 0; (4418), 4, 1, 0; (4498), 4, 1, 0; (4513), 4, 1, 0; (4532), 4, 1, 0; (4767), 4, 1, 0; (4775), 4, 1, 0; (4924), 4, 1, 0; (4940), 4, 1, 0; (4941), 4, 1, 0; (5050), 4, 1, 0; (5111), 4, 1, 0; (5314), 4, 1, 0; (5398), 4, 1, 0; (6420), 4, 1, 0; (6841), 4, 1, 0; (6893), 4, 1, 0; (7127), 4, 1, 0; (7202), 4, 1, 0; (7217), 4, 1, 0; (7324), 4, 1, 0; (7433), 4, 1, 0; (7747), 4, 1, 0; (7786), 4, 1, 0; (7826), 4, 1, 0; (7906), 4, 1, 0; (7913), 4, 1, 0; (7951), 4, 1, 0; (9320), 4, 1, 0; (9565), 4, 1, 0; (9584), 4, 1, 0; (9597), 8, 1, 0; (9615), 4, 1, 0; (9695), 4, 1, 0; (9729), 4, 1, 0; (9731), 4, 1, 0; (9733), 4, 1, 0; (9734), 4, 1, 0; (9748), 3, 1, 0; (9755), 4, 1, 0; (9770), 4, 1, 0; (9840), 8, 1, 0; (10008), 4, 1, 0; (10238), 4, 1, 0; (10241), 4, 1, 0; (11386), 4, 1, 0; (12933), 4, 1, 0; (13102), 4, 1, 0; (13113), 4, 1, 0; (13151), 4, 1, 0; (13203), 4, 1, 0; (13204), 4, 1, 0; (13409), 4, 1, 0; (13501), 4, 1, 0; (13555), 4, 1, 0; (13568), 4, 1, 0; (13629), 4, 1, 0; (13693), 4, 1, 0; (13699), 4, 1, 0; (13749), 4, 1, 0; (13779), 4, 1, 0; (13783), 4, 1, 0; (13817), 4, 1, 0; (13822), 4, 1, 0; (13832), 4, 1, 0; (13836), 4, 1, 0; (13842), 4, 1, 0; (13856), 4, 1, 0; (13857), 4, 1, 0; (13910), 4, 1, 0; (13960), 4, 1, 0; (14010), 4, 1, 0; (14017), 4, 1, 0; (14038), 4, 1, 0; (14097), 4, 1, 0; (14109), 4, 1, 0; (14128), 4, 1, 0; (14144), 4, 1, 0; (14149), 4, 1, 0; (14168), 4, 1, 0; (14195), 4, 1, 0; (14217), 4, 1, 0; (14235), 3, 1, 0; (14240), 4, 1, 0; (14247), 4, 1, 0; (14262), 4, 1, 0; (14268), 4, 1, 0; (14277), 4, 1, 0; (14280), 4, 1, 0; (14284), 4, 1, 0; (14287), 4, 1, 0; (14298), 4, 1, 0; *[10524, 2339, 293*, 1998/11/21-2000/03/31]*

704 Lincoln Laboratory Experimental Test System, New Mexico

G. Stokes, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02420,

U.S.A. [stokes@ll.mit.edu]

Observers M. Blythe, F. Shelly, M. Bezpalko, M. Elowitz, R. Huber

Measurers J. Stuart, H. Viggh, R. Sayer, J. B. Evans

1.0-m $f/2.15$ reflector + CCD

USNO-A2.0

A908 SA, 10, 2, 1; 1937 UD, 16, 4, 12; 1951 QD, 5, 1, 0; 1967 KC, 10, 2, 22; 1969 TY₁, 19, 4, 3; 1970 OF, 10, 2, 7; 1971 UQ, 5, 1, 0; 1971 UK₁, 14, 3, 2; 1972 TE, 8, 2, 4; 1973 SU, 19, 4, 797; 1973 SC₂, 3, 1, 0; 1973 SX₂, 10, 2, 1; 1973 UN₅, 3, 1, 0; 1975 SM₁, 5, 1, 0; 1975 SE₂, 11, 3, 12; 1976 SD₅, 15, 3, 3; 1976 UN₂, 8, 2, 1; 1976 UZ₇, 35, 5, 5; 1976 YN₇, 14, 3, 11; 1977 DQ₃, 15, 3, 2; 1977 EL₅, 9, 2, 10; 1977 ES₇, 35, 6, 6; 1977 PC₁, 3, 1, 0; 1977 QN₁, 4, 1, 0; 1977 QO₃, 5, 1, 0; 1977 RM, 9, 2, 111; 1977 TU₃, 5, 1, 0; 1977 UA, 5, 1, 0; 1977 XF₂, 29, 6, 527; 1977 XZ₂, 20, 4, 3; 1978 PV₂, 10, 2, 3; 1978 PC₃, 5, 1, 0; 1978 RV, 10, 2, 1; 1978 RX₁, 5, 1, 0; 1978 RG₉, 4, 1, 0; 1978 RK₉, 10, 2, 1; 1978 SD₃, 42, 7, 9; 1978 SH₃, 13, 3, 4; 1978 SD₈, 25, 5, 5; 1978 UW₄, 31, 7, 38; 1978 UJ₅, 30, 6, 28; 1978 UV₅, 7, 2, 5; 1978 UV₇, 22, 4, 3; 1978 UX₇, 8, 2, 2; 1978 VA, 5, 1, 0; 1978 VO₂, 10, 2, 9; 1978 VS₃, 15, 3, 11; 1978 VB₄, 5, 1, 0; 1978 VO₅, 3, 1, 0; 1978 VY₅, 29, 6, 12; 1978 VQ₆, 5, 1, 0; 1978 VQ₆, 5, 1, 0; 1978 VX₆, 8, 2, 166; 1978 VS₈, 14, 3, 2; 1978 VU₈, 10, 2, 1; 1978 VZ₉, 6, 2, 11; 1978 VL₉, 6, 2, 2; 1978 VQ₉, 5, 1, 0; 1978 VT₉, 6, 2, 2; 1978 VW₉, 4, 1, 0; 1978 VN₁₀, 3, 1, 0; 1978 YM, 20, 4, 11; 1979 KD, 5, 1, 0; 1979 MM₁, 15, 3, 10; 1979 MQ₁, 10, 2, 29; 1979 MV₁, 15, 3, 6; 1979 ML₂, 4, 1, 0; 1979 MS₂, 13, 3, 2; 1979 MB₃, 13, 3, 10; 1979 MJ₃, 4, 1, 0; 1979 MQ₃, 4, 1, 0; 1979 MP₄, 5, 1, 0; 1979 MK₆, 24, 5, 478; 1979 MM₆, 17, 4, 11; 1979 MX₈, 9, 2, 2; 1979 ON₁, 3, 1, 0; 1979 OZ₁₀, 11, 2, 66; 1979 QX₂, 8, 2, 1; 1979 WY₃, 14, 3, 6; 1979 XL, 9, 2, 6; 1980 BA, 15, 2, 3; 1980 CJ, 5, 1, 0; 1980 EF, 13, 3, 50; 1980 FQ₁, 3, 1, 0; 1980 FS₁, 12, 3, 6; 1980 PT₁, 10, 2, 7; 1980 PC₃, 14, 3, 10; 1980 PE₃, 14, 3, 6; 1980 RC, 13, 3, 8; 1980 TZ₅, 5, 1, 0; 1980 VH, 5, 1, 0; 1980 XB, 15, 3, 177; 1981 DN, 4, 1, 0; 1981 DR₁, 4, 1, 0; 1981 DJ₂, 12, 3, 2; 1981 DV₂, 14, 3, 10; 1981 EK₁, 30, 5, 4; 1981 EU₃, 4, 1, 0; 1981 ER₄, 14, 3, 11; 1981 EH₆, 5, 1, 0; 1981 EY₆, 5, 1, 0; 1981 EL₇, 5, 1, 0; 1981 EX₈, 20, 4, 526; 1981 ED₉, 14, 3, 10; 1981 EP₉, 4, 1, 0; 1981 EY₁₀, 25, 5, 5; 1981 ED₁₁, 11, 3, 31; 1981 EV₁₁, 13, 3, 22; 1981 EJ₁₃, 5, 1, 0; 1981 EN₁₃, 10, 2, 9; 1981 EW₁₃, 15, 3, 3; 1981 EX₁₄, 23, 5, 5; 1981 ED₁₅, 16, 3, 3; 1981 EE₁₇, 5, 1, 0; 1981 EX₂₀, 9, 2, 4; 1981 EG₂₁, 14, 3, 3; 1981 EZ₂₁, 13, 3, 63; 1981 EG₂₂, 9, 2, 4; 1981 EO₂₂, 7, 2, 1; 1981 EY₂₂, 19, 4, 6; 1981 EB₂₃, 20, 4, 5; 1981 EO₂₃, 15, 3, 3; 1981 EJ₂₅, 14, 3, 2; 1981 EU₂₅, 12, 2, 5; 1981 EV₂₅, 4, 1, 0; 1981 EW₂₅, 4, 1, 0; 1981 EC₂₆, 20, 4, 3; 1981 EE₂₆, 3, 1, 0; 1981 EJ₂₆, 10, 2, 33; 1981 EN₂₆, 5, 1, 0; 1981 EX₂₆, 19, 4, 5; 1981 EV₂₇, 3, 1, 0; 1981 ES₂₈, 9, 2, 2; 1981 EP₃₁, 21, 4, 32; 1981 ET₃₁, 13, 3, 38; 1981 EX₃₁, 44, 8, 475; 1981 EA₃₂, 9, 2, 23; 1981 EE₃₂, 4, 1, 0; 1981 EH₃₂, 4, 1, 0; 1981 EF₃₃, 8, 2, 1; 1981 ES₃₃, 5, 1, 0; 1981 ED₃₄, 5, 1, 0; 1981 EC₃₄, 13, 3, 2; 1981 EE₃₆, 10, 2, 1; 1981 EJ₃₆, 9, 2, 1; 1981 EE₃₈, 8, 2, 1; 1981 EP₄₁, 15, 2, 1; 1981 EQ₄₁, 13, 3, 478; 1981 EX₄₂, 9, 2, 31; 1981 ED₄₃, 10, 2, 2; 1981 EQ₄₃, 24, 5, 5; 1981 EA₄₅, 4, 1, 0; 1981 EW₄₆, 8, 2, 10; 1981 EQ₄₇, 18, 4, 3; 1981 JR₁, 9, 2, 412; 1981 QW₂, 24, 4, 6; 1981 QD₄, 5, 1, 0; 1981 RR₁, 5, 1, 0; 1981 RL₂, 5, 1, 0; 1981 RR₃, 13, 3, 6; 1981 UQ₂₂, 23, 5, 57; 1981 UC₂₆, 25, 5, 12; 1981 WJ₉, 15, 3, 2; 1982 FJ₃, 13, 3, 478; 1982 KA, 16, 4, 84; 1982 QP, 9, 2, 2; 1982 RK₁, 5, 1, 0; 1982 SW₃, 15, 3, 2; 1982 TJ, 4, 1, 0; 1982 US₆, 5, 1, 0; 1982 UF₇, 17, 4, 3; 1982 UH₉, 10, 2, 1; 1982 VP₃, 16, 4, 11; 1982 VB₃, 30, 5, 12; 1982 VF₄, 21, 4, 3; 1982 VG₄, 18, 4, 36; 1982 VL₄, 14, 3, 10; 1983 GU, 10, 2, 9; 1983 RQ₃, 9, 2, 2; 1983 RV₃, 20, 4, 5; 1984 SL, 37, 6, 15; 1984 SL₄, 10, 2, 1; 1984 SN_{4</}

4, 11; 1985 UQ₄, 13, 3, 3; 1985 VA₁, 4, 1, 0; 1986 AB, 5, 1, 0; 1986 JK, 4, 1, 0; 1986 PP, 17, 4, 562; 1986 PU₁, 19, 4, 3; 1986 QM, 15, 4, 4; 1986 QR₁, 3, 1, 0; 1986 QT₁, 9, 2, 1; 1986 QY₃, 4, 1, 0; 1986 RF₃, 15, 3, 5; 1986 TG₁, 4, 1, 0; 1986 TR₁₁, 8, 2, 7; 1986 WZ, 20, 4, 8; 1986 WC₁, 9, 2, 1; 1986 XR₅, 14, 3, 2; 1987 BF, 14, 3, 10; 1987 BX₁, 5, 1, 0; 1987 CH, 3, 1, 0; 1987 DK₆, 13, 3, 9; 1987 DL₆, 9, 2, 3; 1987 DN₆, 20, 3, 3; 1987 KH₅, 4, 1, 0; 1987 QM, 3, 1, 0; 1987 QW, 10, 2, 111; 1987 QC₃, 8, 2, 7; 1987 SF, 4, 1, 0; 1987 SP₁, 30, 6, 14; 1987 SL₅, 8, 2, 1; 1987 SM₅, 10, 2, 26; 1987 SF₆, 8, 2, 6; 1987 SD₁₃, 4, 1, 0; 1987 SR₁₇, 9, 2, 1; 1987 UR, 18, 4, 6; 1987 UX, 4, 1, 0; 1987 UA₁, 5, 1, 0; 1987 UE₁, 7, 2, 5; 1987 WP, 3, 1, 0; 1988 AX₁, 5, 1, 0; 1988 BG, 5, 1, 0; 1988 BO₃, 9, 2, 5; 1988 BY₃, 7, 2, 4; 1988 BF₅, 9, 2, 2; 1988 BL₅, 4, 1, 0; 1988 CY, 10, 2, 9; 1988 CU₁, 10, 2, 2; 1988 CB₄, 14, 3, 5; 1988 CV₄, 32, 6, 15; 1988 CS₅, 9, 2, 21; 1988 CR₇, 5, 1, 0; 1988 DE, 4, 1, 0; 1988 MH, 5, 1, 0; 1988 NU, 13, 3, 3; 1988 PV₁, 5, 1, 0; 1988 PC₂, 4, 1, 0; 1988 QR, 8, 2, 28; 1988 RM₂, 5, 1, 0; 1988 RN₂, 5, 1, 0; 1988 RZ₂, 10, 2, 1; 1988 RX₃, 4, 1, 0; 1988 RY₃, 5, 1, 0; 1988 RJ₄, 7, 2, 2; 1988 RK₆, 8, 2, 472; 1988 RH₈, 47, 9, 592; 1988 RE₁₁, 4, 1, 0; 1988 RR₁₁, 8, 2, 3; 1988 RL₁₂, 15, 3, 10; 1988 RO₁₂, 5, 1, 0; 1988 RZ₁₂, 10, 2, 2; 1988 RA₁₃, 20, 4, 4; 1988 RG₁₃, 10, 2, 3; 1988 SU₁, 10, 2, 3; 1988 SB₂, 5, 1, 0; 1988 TK, 9, 2, 6; 1988 TU, 10, 2, 10; 1988 TN₁, 8, 2, 2; 1988 TR₂, 9, 2, 165; 1988 UV, 8, 2, 4; 1988 VJ₁, 9, 2, 3; 1988 VR₂, 14, 3, 8; 1988 VP₃, 13, 3, 2; 1988 VT₃, 12, 3, 9; 1988 VM₅, 4, 1, 0; 1988 VS₆, 5, 1, 0; 1988 XV₁, 10, 2, 10; 1988 XX₂, 15, 3, 6; 1988 XW₄, 21, 5, 6; 1989 AN₃, 31, 7, 591; 1989 AD₆, 5, 1, 0; 1989 AD₇, 14, 3, 10; 1989 BB, 4, 1, 0; 1989 BH, 8, 2, 5; 1989 CQ, 4, 1, 0; 1989 CR, 10, 2, 7; 1989 CO, 5, 1, 0; 1989 CY₂, 9, 2, 1; 1989 CC₃, 4, 1, 0; 1989 CF₃, 5, 1, 0; 1989 CH₅, 8, 2, 1; 1989 CA₆, 15, 3, 64; 1989 DB, 9, 2, 6; 1989 EB₁, 26, 6, 457; 1989 GB, 19, 4, 15; 1989 GK₁, 3, 1, 0; 1989 GM₁, 18, 4, 25; 1989 GQ₁, 19, 4, 3; 1989 GR₁, 4, 1, 0; 1989 GH₃, 13, 3, 8; 1989 GN₃, 9, 2, 5; 1989 GJ₈, 27, 6, 500; 1989 LH, 13, 3, 9; 1989 LT, 19, 4, 3; 1989 QH, 15, 3, 63; 1989 SA, 14, 3, 10; 1989 SE, 15, 2, 1; 1989 SU, 15, 3, 3; 1989 SX, 13, 3, 3; 1989 SM₁, 19, 4, 12; 1989 SO₁, 7, 2, 1; 1989 SP₁, 5, 1, 0; 1989 SO₂, 3, 1, 0; 1989 SZ₂, 9, 2, 12; 1989 SQ₅, 19, 4, 30; 1989 SK₁₀, 9, 2, 25; 1989 ST₁₀, 13, 3, 5; 1989 TQ, 5, 1, 0; 1989 TR₂, 10, 2, 5; 1989 TX₂, 13, 3, 6; 1989 TA₅, 5, 1, 0; 1989 TA₆, 22, 5, 65; 1989 TR₁₁, 4, 1, 0; 1989 TN₁₅, 3, 1, 0; 1989 TA₁₆, 4, 1, 0; 1989 TP₁₆, 23, 5, 477; 1989 US₁, 14, 3, 10; 1989 UW₃, 8, 2, 7; 1989 UM₄, 8, 2, 7; 1989 UC₆, 5, 1, 0; 1989 UN₇, 18, 4, 447; 1989 VR₁, 10, 2, 65; 1989 WH, 4, 1, 0; 1989 WU, 10, 2, 2; 1989 WA₁, 10, 2, 10; 1989 WU₁, 5, 1, 0; 1989 WY₁, 24, 5, 506; 1989 WD₃, 30, 5, 13; 1989 WD₄, 4, 1, 0; 1989 YO₂, 13, 3, 164; 1989 YB₅, 5, 1, 0; 1990 BH, 12, 3, 94; 1990 CE, 3, 1, 0; 1990 DZ, 5, 1, 0; 1990 DA₂, 4, 1, 0; 1990 DU₄, 15, 3, 36; 1990 EB, 5, 1, 0; 1990 ET₁, 8, 2, 113; 1990 EV₁, 14, 3, 12; 1990 EQ₂, 8, 2, 2; 1990 ES₆, 14, 2, 3; 1990 FV₁, 9, 2, 2; 1990 HZ₁, 5, 1, 0; 1990 OK, 5, 1, 0; 1990 OY, 9, 2, 2; 1990 OB₁, 4, 1, 0; 1990 OD₁, 9, 2, 29; 1990 OR₃, 10, 2, 3; 1990 OY₃, 14, 3, 3; 1990 OH₄, 12, 3, 2; 1990 QA₁, 10, 2, 2; 1990 QG₁, 14, 3, 3; 1990 QN₂, 11, 3, 9; 1990 QF₄, 8, 2, 6; 1990 QK₄, 14, 3, 2; 1990 QM₄, 3, 1, 0; 1990 QU₄, 8, 2, 1; 1990 QE₅, 22, 5, 5; 1990 QO₅, 15, 3, 2; 1990 QR₅, 19, 4, 12; 1990 QX₅, 23, 5, 192; 1990 QE₇, 5, 1, 0; 1990 QM₇, 30, 6, 30; 1990 QN₇, 3, 1, 0; 1990 QK₉, 13, 3, 28; 1990 QP₁₀, 27, 5, 5; 1990 RF₁, 25, 5, 6; 1990 RE₂, 14, 3, 2; 1990 RW₄, 10, 2, 2; 1990 RV₅, 5, 1, 0; 1990 RS₆, 15, 3, 3; 1990 RA₇, 7, 2, 1; 1990 RB₇, 4, 1, 0; 1990 RA₈, 5, 1, 0; 1990 RX₈, 9, 2, 8; 1990 RN₉, 5, 1, 0; 1990 RU₉, 5, 1, 0; 1990 SE₁, 4, 1, 0; 1990 SE₃, 14, 3, 165; 1990 SX₃, 8, 2, 1; 1990 SE₄, 20, 4, 27; 1990 SN₅, 7, 2, 4; 1990 SO₆, 4, 1, 0; 1990 ST₈, 12, 3, 2; 1990 SW₈, 5, 1, 0; 1990 SE₉, 9, 3, 28; 1990 SM₁₄, 19, 4, 12; 1990 SP₁₅, 13, 3, 6; 1990 SU₁₆, 19, 4, 173; 1990 TT, 4, 1, 0; 1990 TG₂, 15, 3, 30; 1990 TN₃, 25, 6, 12; 1990 TF₆, 5, 1, 0; 1990 TH₇, 14, 3, 2; 1990 TF₉, 20, 3, 2; 1990 TS₉, 24, 5, 444; 1990 TX₁₁, 7, 2, 1; 1990 UR, 15, 3, 2; 1990 UC₁, 45, 9, 13; 1990 UC₂, 4, 1, 0; 1990 UQ₂, 3, 1, 0; 1990 UJ₄, 14, 3, 10; 1990 UP₄, 14, 3, 34; 1990 US₄, 3, 1, 0; 1990 UX₄, 10, 2, 10; 1990 UY₄, 14, 3, 8; 1990 UE₅, 18, 4, 3; 1990 VE, 5, 1, 0; 1990 VV₁, 10, 2, 1; 1990 VX₁, 14, 3, 36; 1990 VY₁, 9, 2, 472; 1990 VV₂, 5, 1, 0; 1990 VH₃, 5, 1, 0; 1990 VE₄, 13, 3, 8; 1990 VK₄, 4, 1, 0; 1990 VN₅, 3, 1, 0; 1990 VP₆, 5, 1, 0; 1990 VT₆, 13, 3, 457; 1990 VD₈, 12, 3, 925; 1990 VW₈, 5, 1, 0; 1990 WD, 10, 2, 1; 1990 WG₁, 14, 3, 12; 1990 WZ₁, 8, 2, 1; 1990 WD₂, 13, 3, 6; 1990 WR₂, 8, 2, 6; 1990 WN₄, 5, 1, 0; 1990 WE₉, 3, 1, 0; 1990 XV, 5, 1, 0; 1990 YP, 4, 1, 0; 1990 YR, 34, 7, 65; 1991 AK₁, 8, 2, 164; 1991 AE₂, 19, 4, 11; 1991 AF₂, 5, 1, 0; 1991 AL₂, 13, 3, 6; 1991 BJ₂, 3, 1, 0; 1991 CL, 5, 1, 0; 1991 CJ₁, 14, 3, 9; 1991 CM₁, 9, 2, 1; 1991 DB, 5, 1, 0; 1991 EO₅, 18, 3, 8; 1991 FQ₂, 25, 5, 28; 1991 FU₃, 16, 4, 15; 1991 FW₃, 21, 4, 6; 1991 GW₂, 22, 6, 944; 1991 GO₄, 4, 1, 0; 1991 GS₆, 29, 6, 91; 1991 GM₈, 10, 2, 1; 1991 GA₁₀, 5, 1, 0; 1991 GR₁₀, 3, 1, 0; 1991 GH₁₁, 4, 1, 0; 1991 JW₁, 5, 1, 0; 1991 LF₂, 19, 3, 5; 1991 PK, 10, 2, 1; 1991 PE₆, 7, 2, 120; 1991 PQ₈, 26, 5, 6; 1991 PX₁₀, 9, 2, 7; 1991 PP₁₁, 9, 2, 1; 1991 PT₁₁, 10, 2, 1; 1991 PO₁₂, 20, 4, 12; 1991 PP₁₃, 8, 2, 7; 1991 PS₁₄, 5, 1, 0; 1991 PC₁₆, 23, 5, 857; 1991 PH₁₆, 34, 7, 586; 1991 PJ₁₇, 3, 1, 0; 1991 PU₁₉, 5, 1, 0; 1991 RA, 5, 1, 0; 1991 RV, 5, 1, 0; 1991 RH₁, 5, 1, 0; 1991 RM₁, 5, 1, 0; 1991 RR₁, 5, 1, 0; 1991 RC₂, 5, 1, 0; 1991 RE₂, 15, 3, 3; 1991 RF₂, 3, 1, 0; 1991 RU₂, 13, 3, 3; 1991 RY₂, 5, 1, 0; 1991 RG₃, 4, 1, 0; 1991 RK₃, 9, 2, 17; 1991 RT₃, 13, 3, 3; 1991 RQ₄, 15, 3, 28; 1991 RQ₅, 19, 4, 14; 1991 RE₆, 10, 2, 2; 1991 RF₆, 29, 4, 12; 1991 RT₆, 4, 1, 0; 1991 RB₇, 8, 2, 2; 1991 RQ₇, 5, 1, 0; 1991 RU₇, 8, 2, 1; 1991 RC₉, 9, 2, 6; 1991 RL₉, 5, 1, 0; 1991 RR₁₀, 6, 2, 1; 1991 RC₁₁, 9, 2, 1; 1991 RO₁₁, 15, 3, 399; 1991 RL₁₃, 4, 1, 0; 1991 RN₁₃, 4, 1, 0; 1991 RA₁₄, 13, 2, 11; 1991 RG₁₄, 10, 2, 1; 1991 RH₁₄, 9, 2, 4; 1991 RB₁₆, 4, 1, 0; 1991 RU₁₆, 3, 1, 0; 1991 RN₁₇, 4, 1, 0; 1991 RX₁₇, 3, 1, 0; 1991 RD₁₈, 18, 4, 2; 1991 RW₁₈, 12, 3, 11; 1991 RE₁₉, 4, 1, 0; 1991 RA₂₀, 4, 1, 0; 1991 RX₂₁, 19, 4, 15; 1991 RJ₂₂, 5, 1, 0; 1991 RN₂₂, 3, 1, 0; 1991 RK₂₃, 10, 2, 1; 1991 RJ₂₉, 5, 1, 0; 1991 RY₂₉, 3, 1, 0; 1991 RX₄₀, 3, 1, 0; 1991 RJ₄₁, 19, 4, 13; 1991 SJ, 15, 3, 9; 1991 SM, 13, 3, 8; 1991 SU, 30, 6, 88; 1991 SW, 3, 1, 0; 1991 SA₁, 10, 2,

7; 1991 SN₁, 10, 2, 1; 1991 SK₂, 5, 1, 0; 1991 SM₂, 24, 5, 5; 1991 SR₃, 5, 1, 0; 1991 TO, 9, 2, 10; 1991 TP, 20, 4, 36; 1991 TS, 4, 1, 0; 1991 TQ₁, 14, 3, 11; 1991 TJ₂, 8, 2, 1; 1991 TU₅, 8, 2, 30; 1991 TT₆, 27, 6, 30; 1991 TK₈, 5, 1, 0; 1991 TU₁₃, 3, 1, 0; 1991 TE₁₄, 4, 1, 0; 1991 TL₁₄, 8, 2, 449; 1991 UQ₁, 15, 3, 2; 1991 UV₁, 8, 2, 1; 1991 UJ₂, 3, 1, 0; 1991 UO₂, 20, 4, 12; 1991 UR₂, 3, 1, 0; 1991 VF₁, 33, 7, 8; 1991 VG₁, 12, 3, 11; 1991 VO₁, 10, 2, 5; 1991 VJ₁, 20, 4, 15; 1991 VJ₂, 33, 5, 5; 1991 VQ₂, 4, 1, 0; 1991 VX₂, 10, 2, 2; 1991 VY₂, 5, 1, 0; 1991 VG₃, 5, 1, 0; 1991 VO₃, 9, 2, 7; 1991 VG₄, 5, 1, 0; 1991 VJ₄, 19, 4, 12; 1991 VY₄, 13, 3, 173; 1991 VA₅, 10, 2, 157; 1991 VE₅, 5, 1, 0; 1991 VM₅, 4, 1, 0; 1991 VY₅, 20, 3, 28; 1991 VA₉, 10, 2, 8; 1991 VH₉, 14, 3, 3; 1991 VQ₉, 5, 1, 0; 1991 VM₁₂, 15, 3, 5; 1991 XC, 5, 1, 0; 1991 XF, 15, 3, 10; 1991 XN, 4, 1, 0; 1992 AC₁, 10, 2, 1; 1992 AJ₁, 8, 2, 1; 1992 AO₁, 5, 1, 0; 1992 BD, 5, 1, 0; 1992 BJ, 5, 1, 0; 1992 BC₁, 4, 1, 0; 1992 BH₂, 5, 1, 0; 1992 BW₃, 7, 2, 27; 1992 CH, 4, 1, 0; 1992 CQ, 3, 1, 0; 1992 CN₂, 4, 1, 0; 1992 CG₃, 18, 4, 6; 1992 DH₁, 4, 1, 0; 1992 DH₃, 5, 1, 0; 1992 DN₃, 4, 1, 0; 1992 DD₄, 22, 5, 56; 1992 DC₇, 5, 1, 0; 1992 DP₇, 5, 1, 0; 1992 DW₇, 7, 2, 2; 1992 DB₈, 8, 2, 6; 1992 DD₈, 19, 4, 10; 1992 DX₉, 9, 2, 1; 1992 DY₈, 4, 1, 0; 1992 DM₉, 4, 1, 0; 1992 DV₉, 4, 1, 0; 1992 EA₁, 4, 1, 0; 1992 EB₄, 5, 1, 0; 1992 EY₅, 11, 3, 59; 1992 EA₆, 10, 2, 4; 1992 EJ₆, 15, 3, 27; 1992 EA₈, 23, 5, 84; 1992 EE₈, 8, 2, 1; 1992 EV₈, 5, 1, 0; 1992 EP₁₀, 5, 1, 0; 1992 EZ₁₀, 8, 2, 1; 1992 ER₁₁, 20, 4, 15; 1992 EN₁₂, 5, 1, 0; 1992 EO₁₂, 15, 3, 30; 1992 ED₁₃, 14, 3, 2; 1992 EM₁₃, 10, 2, 1; 1992 EQ₁₃, 8, 2, 21; 1992 EZ₁₃, 4, 1, 0; 1992 ED₁₄, 5, 1, 0; 1992 ET₁₄, 10, 2, 5; 1992 EW₁₇, 4, 1, 0; 1992 ER₁₈, 10, 2, 1; 1992 EF₂₂, 7, 2, 163; 1992 EH₂₄, 4, 1, 0; 1992 EJ₂₄, 8, 2, 4; 1992 EB₂₆, 5, 1, 0; 1992 ES₂₈, 7, 2, 7; 1992 ET₃₂, 10, 2, 8; 1992 EV₃₂, 15, 3, 8; 1992 FC₂, 3, 1, 0; 1992 GO, 8, 2, 9; 1992 GD₃, 13, 3, 3; 1992 GV₃, 20, 4, 12; 1992 GE₅, 10, 2, 10; 1992 HC₂, 12, 3, 937; 1992 HD₄, 13, 3, 6; 1992 JL, 4, 1, 0; 1992 JR, 10, 2, 29; 1992 JP₃, 14, 3, 2; 1992 JR₂, 13, 3, 36; 1992 KF, 9, 2, 5; 1992 LQ, 13, 3, 3; 1992 OH₂, 5, 1, 0; 1992 PP₁, 5, 1, 0; 1992 PC₃, 4, 1, 0; 1992 QT, 5, 1, 0; 1992 RE₂, 19, 4, 4; 1992 RV₃, 5, 1, 0; 1992 RF₅, 19, 3, 5; 1992 RN₆, 4, 1, 0; 1992 SH, 17, 3, 6; 1992 SJ, 20, 4, 11; 1992 SQ₁, 10, 2, 1; 1992 ST₁₃, 16, 4, 13; 1992 SH₁₇, 7, 2, 7; 1992 SS₁₇, 24, 5, 4; 1992 SY₂₄, 5, 1, 0; 1992 SR₂₅, 14, 3, 3; 1992 SM₂₆, 14, 3, 10; 1992 TV, 25, 5, 5; 1992 TG₁, 45, 9, 677; 1992 TJ₁, 3, 1, 0; 1992 UN, 9, 2, 29; 1992 UJ₂, 5, 1, 0; 1992 UZ₃, 17, 4, 6; 1992 UC₆, 5, 1, 0; 1992 UE₆, 10, 2, 1; 1992 UP₆, 20, 4, 11; 1992 UQ₆, 3, 1, 0; 1992 UG₇, 15, 3, 10; 1992 UR₈, 10, 2, 5; 1992 US₈, 4, 1, 0; 1992 VF, 20, 4, 1039; 1992 VL, 9, 2, 5; 1992 VN, 4, 1, 0; 1992 VQ, 19, 4, 6; 1992 WG, 9, 2, 4; 1992 WM, 5, 1, 0; 1992 WW, 5, 1, 0; 1992 WE₁, 5, 1, 0; 1992 WK₁, 9, 2, 6; 1992 WP₁, 12, 3, 8; 1992 WS₁, 5, 1, 0; 1992 WX₁, 5, 1, 0; 1992 WZ₁, 20, 4, 12; 1992 WK₂, 35, 8, 948; 1992 WR₅, 5, 1, 0; 1992 WS₆, 14, 3, 22; 1992 WB₉, 26, 6, 889; 1992 XK, 4, 1, 0; 1992 YK, 10, 2, 1; 1992 YP, 4, 1, 0; 1992 YP₁, 8, 2, 421; 1992 YY₁, 10, 2, 10; 1992 YR₂, 5, 1, 0; 1992 YT₃, 10, 2, 28; 1992 YB₄, 15, 2, 2; 1993 BB, 6, 2, 96; 1993 BD, 9, 2, 164; 1993 BE₂, 4, 1, 0; 1993 BL₂, 15, 3, 58; 1993 BZ₂, 9, 2, 28; 1993 BM₃, 5, 1, 0; 1993 BV₄, 5, 1, 0; 1993 BT₁₄, 5, 1, 0; 1993 DN₁, 20, 4, 65; 1993 DF₂, 12, 3, 6; 1993 FG₁, 48, 10, 600; 1993 FL₁, 4, 1, 0; 1993 FQ₁, 8, 2, 1; 1993 FV₁, 5, 1, 0; 1993 FX₃, 13, 3, 55; 1993 FR₄, 4, 1, 0; 1993 FV₄, 5, 1, 0; 1993 FR₅, 15, 3, 8; 1993 FY₅, 10, 2, 52; 1993 FC₇, 9, 2, 4; 1993 FV₇, 34, 7, 15; 1993 FG₈, 18, 4, 12; 1993 FM₈, 24, 5, 480; 1993 FK₉, 8, 2, 7; 1993 FL₉, 5, 1, 0; 1993 FK₁₀, 4, 1, 0; 1993 FR₁₀, 5, 1, 0; 1993 FH₁₁, 5, 1, 0; 1993 FS₁₁, 5, 1, 0; 1993 FX₁₁, 8, 2, 34; 1993 FY₁₁, 3, 1, 0; 1993 FO₁₂, 5, 1, 0; 1993 FC₁₃, 4, 1, 0; 1993 FK₁₃, 7, 2, 22; 1993 FP₁₃, 19, 4, 54; 1993 FR₁₃, 4, 1, 0; 1993 FS₁₃, 19, 4, 10; 1993 FV₁₃, 10, 2, 7; 1993 FP₁₄, 14, 3, 2; 1993 FK₁₅, 15, 3, 9; 1993 FD₁₆, 17, 4, 27; 1993 FX₁₆, 10, 3, 1088; 1993 FX₁₇, 20, 5, 517; 1993 FB₁₈, 5, 1, 0; 1993 FV₁₈, 4, 1, 0; 1993 FB₁₉, 18, 4, 506; 1993 FT₁₉, 18, 4, 64; 1993 FY₁₉, 8, 2, 28; 1993 FO₂₃, 15, 3, 9; 1993 FQ₂₃, 5, 1, 0; 1993 FR₂₃, 33, 4, 11; 1993 FF₂₅, 29, 4, 3; 1993 FJ

2000 APR. 18

M.P.C. 39757

12, 3, 38; 1993 TL₂₅, 4, 1, 0; 1993 TM₂₆, 4, 1, 0; 1993 TV₂₇, 19, 4, 12; 1993 TH₂₈, 5, 1, 0; 1993 TK₂₈, 4, 1, 0; 1993 TL₂₈, 4, 1, 0; 1993 TR₂₈, 16, 4, 480; 1993 TF₃₀, 4, 1, 0; 1993 TS₃₁, 9, 2, 8; 1993 TL₃₂, 13, 3, 12; 1993 TK₃₃, 28, 4, 12; 1993 TX₃₃, 4, 1, 0; 1993 TY₃₄, 9, 2, 1; 1993 TJ₃₈, 3, 1, 0; 1993 TL₃₈, 15, 3, 10; 1993 TJ₃₉, 15, 3, 10; 1993 UE, 3, 1, 0; 1993 UF, 4, 1, 0; 1993 UF₁, 5, 1, 0; 1993 UX₂, 6, 2, 5; 1993 UY₂, 5, 1, 0; 1993 UW₆, 4, 1, 0; 1993 UZ₆, 4, 1, 0; 1993 UM₈, 4, 1, 0; 1993 UW₈, 19, 4, 15; 1993 VT, 5, 1, 0; 1993 VT₂, 5, 1, 0; 1993 VG₄, 9, 2, 11; 1993 XQ, 16, 4, 60; 1993 XW, 5, 1, 0; 1993 XJ₁, 10, 3, 6; 1993 XW₂, 10, 2, 10; 1993 XK₃, 10, 2, 9; 1994 AM, 5, 1, 0; 1994 AF₃, 5, 1, 0; 1994 AQ₅, 5, 1, 0; 1994 AN₉, 4, 1, 0; 1994 AV₁₀, 3, 1, 0; 1994 AD₁₁, 4, 1, 0; 1994 BD₁, 15, 3, 5; 1994 BP₄, 9, 2, 5; 1994 CN, 9, 2, 1; 1994 CF₂, 20, 4, 6; 1994 CX₁₀, 20, 4, 12; 1994 CQ₁₃, 24, 5, 12; 1994 CT₁₃, 23, 5, 33; 1994 CE₁₄, 9, 2, 6; 1994 CF₁₆, 9, 2, 7; 1994 ET, 4, 1, 0; 1994 EK₁, 15, 3, 8; 1994 EL₁, 5, 1, 0; 1994 ER₅, 8, 2, 6; 1994 ED₆, 10, 2, 6; 1994 EH₆, 3, 1, 0; 1994 EJ₆, 5, 1, 0; 1994 EY₆, 8, 2, 29; 1994 EC₇, 20, 4, 12; 1994 GE, 5, 1, 0; 1994 GK₉, 5, 1, 0; 1994 GO₉, 5, 1, 0; 1994 HB₁, 21, 5, 30; 1994 JB, 17, 4, 30; 1994 JC, 8, 2, 1; 1994 JR₄, 3, 1, 0; 1994 JV₄, 8, 2, 6; 1994 LB₈, 10, 2, 1; 1994 NQ, 3, 1, 0; 1994 PG, 9, 2, 6; 1994 PN₁, 9, 2, 21; 1994 PU₁, 15, 3, 6; 1994 PE₂, 5, 1, 0; 1994 PB₃, 10, 3, 70; 1994 PK₄, 5, 1, 0; 1994 PN₅, 19, 4, 12; 1994 PO₆, 3, 1, 0; 1994 PJ₇, 10, 2, 6; 1994 PS₇, 18, 4, 12; 1994 PC₉, 5, 1, 0; 1994 PC₁₀, 7, 2, 1; 1994 PF₁₁, 13, 3, 61; 1994 PG₁₁, 8, 2, 1; 1994 PL₁₂, 7, 2, 4; 1994 PK₁₅, 5, 1, 0; 1994 PV₁₅, 5, 1, 0; 1994 PJ₁₆, 7, 2, 3; 1994 PG₁₈, 8, 2, 1; 1994 PK₁₈, 28, 6, 10; 1994 PZ₁₈, 4, 1, 0; 1994 PV₁₉, 25, 5, 5; 1994 PX₂₀, 8, 2, 8; 1994 PX₂₁, 12, 3, 14; 1994 PZ₂₂, 13, 3, 2; 1994 PG₂₄, 25, 5, 6; 1994 PW₂₆, 10, 2, 28; 1994 PM₂₈, 9, 2, 1; 1994 PH₂₉, 15, 3, 10; 1994 PU₃₂, 29, 5, 5; 1994 PE₃₃, 3, 1, 0; 1994 PE₃₅, 17, 4, 6; 1994 PA₃₆, 5, 1, 0; 1994 PF₃₇, 9, 2, 139; 1994 PK₃₇, 8, 2, 163; 1994 PU₃₇, 9, 2, 32; 1994 PQ₃₉, 5, 1, 0; 1994 QA, 10, 2, 1; 1994 QC, 5, 1, 0; 1994 RA, 10, 2, 10; 1994 RF, 3, 1, 0; 1994 RO₆, 4, 1, 0; 1994 RK₁₁, 20, 5, 4; 1994 RN₁₂, 15, 3, 5; 1994 SC₆, 5, 1, 0; 1994 TE, 14, 3, 2; 1994 TT, 4, 1, 0; 1994 TW, 9, 2, 29; 1994 TH₁, 9, 2, 28; 1994 TJ₂, 20, 4, 12; 1994 TU₂, 4, 1, 0; 1994 TA₃, 6, 2, 2; 1994 TB₃, 5, 1, 0; 1994 TQ₃, 4, 1, 0; 1994 TU₃, 10, 1, 0; 1994 TF₁₅, 13, 3, 9; 1994 TN₁₅, 4, 1, 0; 1994 TQ₁₆, 15, 4, 12; 1994 TT₁₆, 5, 1, 2; 1994 UL, 10, 2, 10; 1994 UW, 13, 3, 3; 1994 UU₁, 14, 3, 2; 1994 UD₂, 8, 2, 1; 1994 UT₂, 14, 3, 2; 1994 UH₇, 6, 2, 36; 1994 UQ₇, 5, 1, 0; 1994 UC₈, 20, 4, 13; 1994 VD, 3, 1, 0; 1994 VF, 8, 2, 34; 1994 VJ, 4, 1, 0; 1994 VL, 10, 2, 1; 1994 VP, 5, 1, 0; 1994 VU, 15, 3, 10; 1994 VZ, 8, 2, 2; 1994 VE₁, 4, 1, 0; 1994 VX₁, 19, 4, 10; 1994 VY₂, 19, 4, 11; 1994 VH₂, 13, 3, 11; 1994 VR₂, 8, 2, 5; 1994 VU₂, 3, 1, 0; 1994 VV₂, 4, 1, 0; 1994 VY₂, 5, 1, 0; 1994 VB₃, 13, 3, 2; 1994 VM₆, 10, 2, 27; 1994 VW₆, 4, 1, 0; 1994 VL₇, 9, 2, 1; 1994 VP₇, 5, 1, 0; 1994 WL, 13, 3, 58; 1994 WO, 7, 2, 6; 1994 WT, 3, 1, 0; 1994 WH₁, 5, 1, 0; 1994 WJ₁, 7, 2, 15; 1994 WN₁, 5, 1, 0; 1994 WP₁, 7, 2, 2; 1994 WV₁, 34, 6, 30; 1994 WX₁, 20, 5, 507; 1994 WC₂, 5, 1, 0; 1994 WK₂, 24, 5, 167; 1994 WJ₃, 5, 1, 0; 1994 WL₃, 8, 2, 1; 1994 WN₃, 9, 2, 10; 1994 WP₃, 13, 3, 10; 1994 WR₃, 15, 3, 10; 1994 WA₄, 5, 1, 0; 1994 WE₄, 9, 2, 6; 1994 WP₈, 8, 2, 6; 1994 WJ₁₂, 5, 1, 0; 1994 XR₄, 8, 2, 3; 1994 XV₄, 5, 1, 0; 1994 XD₅, 8, 2, 1; 1994 YL, 14, 3, 5; 1994 YL, 14, 3, 5; 1994 YL, 14, 3, 5; 1994 YS, 7, 2, 6; 1994 YX, 3, 1, 0; 1994 YJ₂, 6, 2, 1; 1995 AB₁, 5, 1, 0; 1995 AK₁, 20, 4, 15; 1995 AE₄, 9, 2, 10; 1995 BF, 7, 2, 1; 1995 BH, 4, 1, 0; 1995 BZ, 19, 4, 15; 1995 BM₁, 3, 1, 0; 1995 BP₁, 3, 1, 0; 1995 BQ, 15, 3, 10; 1995 BY₂, 15, 3, 10; 1995 BG₃, 10, 2, 140; 1995 BK₄, 5, 1, 0; 1995 CB, 5, 1, 0; 1995 CC, 4, 1, 0; 1995 CC₂, 4, 1, 0; 1995 CP₃, 8, 2, 1; 1995 CO₆, 8, 2, 5; 1995 DD, 3, 1, 0; 1995 DG, 9, 2, 1; 1995 DN, 10, 2, 1; 1995 DU, 4, 1, 0; 1995 DW, 8, 2, 52; 1995 DG₁, 8, 2, 1; 1995 DO₂, 5, 1, 0; 1995 DM₆, 5, 1, 0; 1995 DW₈, 10, 2, 3; 1995 DR₁₃, 8, 2, 163; 1995 EP₁, 10, 2, 1; 1995 EN₈, 10, 2, 2; 1995 FY₂, 6, 2, 2; 1995 FZ₃, 13, 3, 6; 1995 FK₄, 15, 3, 10; 1995 FU₄, 4, 1, 0; 1995 FM₈, 4, 1, 0; 1995 FP₁₄, 9, 2, 6; 1995 FH₁₅, 4, 1, 0; 1995 GW₂, 4, 1, 0; 1995 GP₇, 9, 2, 1; 1995 HR₂, 15, 3, 10; 1995 KE₂, 5, 1, 0; 1995 MA, 23, 5, 476; 1995 ME₄, 3, 1, 0; 1995 OV₃, 5, 1, 0; 1995 PA, 5, 1, 0; 1995 QH, 12, 3, 165; 1995 QA₃, 5, 1, 0; 1995 QP₃, 4, 1, 0; 1995 QV₃, 7, 2, 170; 1995 SM, 10, 2, 5; 1995 SE₁, 9, 2, 11; 1995 SQ₁, 4, 1, 0; 1995 ST₃, 7, 2, 10; 1995 SN₄, 3, 1, 0; 1995 SX₄, 4, 1, 0; 1995 SO₁₆, 4, 1, 0; 1995 SL₂₁, 10, 2, 1; 1995 SK₂₉, 9, 2, 27; 1995 SY₃₀, 10, 2, 10; 1995 SW₃₄, 10, 2, 2; 1995 SD₅₃, 14, 3, 5; 1995 SE₅₃, 14, 3, 5; 1995 ST₅₃, 5, 1, 0; 1995 TO, 4, 1, 0; 1995 TN₇, 3, 1, 0; 1995 UK, 5, 1, 0; 1995 UM, 14, 3, 3; 1995 UQ, 5, 1, 0; 1995 UR, 3, 1, 0; 1995 UH₁, 5, 1, 0; 1995 UQ₁, 5, 1, 0; 1995 UQ₃, 8, 2, 2; 1995 UE₄, 7, 2, 27; 1995 UQ₄, 5, 1, 0; 1995 UW₄, 7, 2, 5; 1995 UC₅, 9, 2, 2; 1995 UG₇, 8, 2, 25; 1995 UB₈, 5, 1, 0; 1995 UF₈, 8, 2, 165; 1995 UL₈, 5, 1, 0; 1995 UT₈, 10, 2, 59; 1995 UV₈, 15, 3, 10; 1995 UY₈, 5, 1, 0; 1995 UQ₁₁, 8, 2, 7; 1995 UE₁₂, 3, 1, 0; 1995 UQ₁₂, 5, 1, 0; 1995 UG₁₃, 3, 1, 0; 1995 UC₁₄, 4, 1, 0; 1995 UD₁₅, 4, 1, 0; 1995 UC₁₇, 4, 1, 0; 1995 UB₃₂, 10, 2, 18; 1995 UD₃₄, 5, 1, 0; 1995 UO₄₄, 15, 3, 30; 1995 UP₄₄, 4, 1, 0; 1995 UE₄₅, 5, 1, 0; 1995 VA, 10, 2, 10; 1995 VB, 8, 2, 26; 1995 VC, 4, 1, 0; 1995 VE₁, 5, 1, 0; 1995 VN₁, 5, 1, 0; 1995 VR₁, 25, 5, 11; 1995 VD₁₉, 8, 2, 7; 1995 WM, 5, 1, 0; 1995 WC₁, 4, 1, 0; 1995 WJ₁, 39, 5, 30; 1995 WK₁, 10, 2, 5; 1995 WP₁, 5, 1, 0; 1995 WQ₁, 4, 1, 0; 1995 WA₂, 13, 3, 7; 1995 WE₃, 4, 1, 0; 1995 WP₃, 7, 2, 11; 1995 WK₄, 5, 1, 0; 1995 WN₄, 15, 3, 10; 1995 WV₆, 3, 1, 0; 1995 WO₇, 5, 1, 0; 1995 WT₇, 10, 2, 10; 1995 WU₇, 14, 3, 11; 1995 WZ₇, 5, 1, 0; 1995 WA₈, 19, 4, 3; 1995 WB₉, 15, 3, 10; 1995 WP₁₀, 2, 1, 0; 1995 WN₂₀, 9, 2, 35; 1995 WB₂₂, 12, 3, 10; 1995 WF₂₂, 5, 1, 0; 1995 WP₂₂, 5, 1, 0; 1995 WA₂₈, 4, 1, 0; 1995 WJ₃₆, 5, 1, 0; 1995 WZ₄₁, 4, 1, 0; 1995 WW₄₂, 9, 2, 7; 1995 XV, 5, 1, 0; 1995 XP₁, 19, 4, 12; 1995 XT₁, 8, 2, 2; 1995 YJ, 15, 3, 10; 1995 YS, 20, 5, 87; 1995 YV, 14, 3, 10; 1995 YY, 5, 1, 0; 1995 YK₁, 10, 2, 11; 1995 YX₁, 21, 4, 27; 1995 YX₁, 44, 5, 5; 1995 YU₂, 23, 5, 30; 1995 YG₃, 8, 2, 57; 1995 YL₃, 9, 2, 11; 1995 YM₃, 13, 3, 6; 1995 YX₃, 5, 1, 0; 1995 YM₄, 3, 1, 0; 1995 YO₇, 14, 3, 10; 1995 YP₈, 9, 2, 1; 1995 YM₉, 5, 1, 0; 1995 YM₁₀, 9, 2, 31; 1995 YH₁₂, 4, 1, 0; 1995 YA₂₃,

5, 1, 0; 1995 YM₂₃, 9, 2, 28; 1996 AK, 5, 1, 0; 1996 AT, 15, 3, 10; 1996 AV, 5, 1, 0; 1996 AZ, 13, 3, 12; 1996 AN₂, 14, 3, 517; 1996 AP₂, 3, 1, 0; 1996 AR₂, 12, 2, 171; 1996 AU₃, 5, 1, 0; 1996 AX₃, 4, 1, 0; 1996 AB₄, 17, 4, 3; 1996 AC₄, 16, 4, 508; 1996 AW₄, 15, 3, 10; 1996 AQ₇, 12, 3, 5; 1996 AZ₁₀, 5, 1, 0; 1996 AA₁₄, 3, 1, 0; 1996 AL₁₉, 10, 3, 2; 1996 BA, 5, 1, 0; 1996 BC₁, 4, 1, 0; 1996 BF₁, 5, 1, 0; 1996 BO₁, 10, 2, 11; 1996 BP₁, 9, 2, 5; 1996 BQ₁, 8, 2, 6; 1996 BA₂, 5, 1, 0; 1996 BE₂, 4, 1, 0; 1996 BH₂, 10, 2, 1; 1996 BL₂, 15, 3, 3; 1996 BS₂, 13, 3, 9; 1996 BV₂, 13, 3, 188; 1996 BY₂, 3, 1, 0; 1996 BA₃, 5, 1, 0; 1996 BL₃, 12, 3, 13; 1996 BO₃, 5, 1, 0; 1996 BX₄, 8, 2, 10; 1996 BW₆, 3, 1, 0; 1996 BM₁₇, 4, 1, 0; 1996 CQ, 19, 4, 12; 1996 CY, 6, 2, 1; 1996 CK₁, 5, 1, 0; 1996 CL₁, 15, 3, 10; 1996 CP₁, 8, 2, 163; 1996 CD₂, 5, 1, 0; 1996 CB₃, 8, 2, 2; 1996 CE₃, 10, 2, 6; 1996 CW₃, 3, 1, 0; 1996 CP₇, 4, 1, 0; 1996 CX₈, 4, 1, 0; 1996 DL, 7, 2, 1; 1996 DO, 4, 1, 0; 1996 DU, 8, 2, 6; 1996 DX, 5, 1, 0; 1996 DB₁, 26, 6, 480; 1996 DE₁, 3, 1, 0; 1996 DL₁, 3, 1, 0; 1996 DH₂, 4, 1, 0; 1996 DM₂, 5, 1, 0; 1996 DQ₂, 9, 2, 6; 1996 EB, 5, 1, 0; 1996 EV, 8, 2, 4; 1996 EW, 10, 2, 5; 1996 EC₁, 19, 4, 6; 1996 EJ₁, 19, 4, 3; 1996 EL₁, 10, 2, 5; 1996 EM₁, 10, 2, 5; 1996 EP₁, 14, 3, 584; 1996 ET₁, 22, 5, 480; 1996 ER₂, 9, 2, 1; 1996 ES₂, 10, 2, 2; 1996 EU₃, 15, 3, 11; 1996 EY₇, 7, 2, 7; 1996 EK₉, 19, 4, 11; 1996 FD, 5, 1, 0; 1996 FZ, 9, 2, 7; 1996 FM₂, 19, 3, 5; 1996 FJ₅, 18, 4, 13; 1996 GA, 4, 1, 0; 1996 GK, 10, 2, 1; 1996 GL₁, 10, 2, 2; 1996 GP₁, 5, 1, 0; 1996 GN₂, 3, 1, 0; 1996 GV₂, 22, 5, 65; 1996 GC₅, 3, 1, 0; 1996 GN₇, 4, 1, 0; 1996 GG₉, 10, 2, 33; 1996 GS₉, 5, 1, 0; 1996 GO₁₃, 7, 2, 30; 1996 GK₁₇, 20, 4, 4; 1996 GU₁₇, 4, 1, 0; 1996 GA₁₈, 25, 5, 5; 1996 GE₂₀, 17, 4, 13; 1996 HP, 15, 3, 9; 1996 HY, 19, 4, 12; 1996 HL₁, 5, 1, 0; 1996 HY₁, 13, 3, 9; 1996 HM₂, 3, 1, 0; 1996 HT₂, 3, 1, 0; 1996 HP₄, 5, 1, 0; 1996 HW₈, 9, 2, 3; 1996 HM₁₀, 5, 1, 0; 1996 HM₁₁, 24, 5, 5; 1996 HB₁₂, 5, 1, 0; 1996 HO₁₄, 8, 2, 6; 1996 HJ₁₅, 9, 2, 2; 1996 HT₁₆, 3, 1, 0; 1996 HL₂₀, 5, 1, 0; 1996 HN₂₁, 11, 3, 10; 1996 HZ₂₁, 4, 1, 0; 1996 HD₂₂, 4, 1, 0; 1996 HQ₂₂, 24, 4, 3; 1996 HE₂₅, 19, 4, 4; 1996 HK₂₅, 47, 10, 894; 1996 HU₂₅, 10, 2, 4; 1996 JC, 3, 1, 0; 1996 JE, 5, 1, 0; 1996 JF₁, 20, 4, 3; 1996 JK₁, 13, 3, 9; 1996 JR₃, 4, 1, 0; 1996 JX₇, 4, 1, 0; 1996 KB, 19, 3, 3; 1996 KC₁, 15, 3, 10; 1996 KX₂, 10, 2, 5; 1996 LJ₁, 5, 1, 0; 1996 LM₂, 8, 2, 4; 1996 NG, 10, 2, 10; 1996 NU, 5, 1, 0; 1996 NK₅, 15, 2, 1; 1996 PT₁, 4, 1, 0; 1996 PY₈, 18, 4, 7; 1996 PO₉, 4, 1, 0; 1996 QT₁, 18, 4, 13; 1996 RQ₅, 9, 2, 34; 1996 RM₅, 5, 1, 0; 1996 RC₂₄, 12, 3, 6; 1996 RU₂₅, 8, 1, 0; 1996 SJ₃, 28, 6, 30; 1996 TJ₁₀, 4, 1, 0; 1996 TL₁₁, 9, 2, 1; 1996 TR₁₄, 24, 5, 32; 1996 TL₁₅, 10, 3, 6; 1996 TM₁₅, 9, 2, 1; 1996 TT₃₈, 10, 2, 1; 1996 TD₄₀, 12, 3, 2; 1996 TC₅₁, 5, 1, 0; 1996 VS, 8, 2, 5; 1996 VS₁, 5, 1, 0; 1996 VO₄, 5, 1, 0; 1996 VG₉, 4, 1, 0; 1996 WV₁, 4, 1, 0; 1996 WL₁₃, 14, 3, 8; 1996 XK, 5, 1, 0; 1996 XH₅, 4, 1, 0; 1996 XJ₁₂, 4, 1, 0; 1996 XT₁₄, 4, 1, 0; 1996 XU₁₄, 8, 2, 1; 1996 XC₁₅, 9, 2, 5; 1996 XK₂₂, 18, 3, 27; 1996 XD₃₁, 5, 1, 0; 1996 XH₃₃, 10, 2, 28; 1996 YW, 8, 2, 3; 1996 YA₂, 5, 1, 0; 1996 YE₂, 10, 2, 11; 1997 AN₁, 5, 1, 0; 1997 AW₁, 19, 4, 30; 1997 AD₂, 5, 1, 0; 1997 AN₂, 15, 1, 0; 1997 AY₃, 5, 1, 0; 1997 AN₅, 10, 2, 6; 1997 AX₅, 10, 2, 1; 1997 AQ₆, 4, 1, 0; 1997 AR₆, 5, 1, 0; 1997 AF₇, 4, 1, 0; 1997 AN₇, 10, 2, 11; 1997 AA₁₀, 15, 3, 9; 1997 AM₁₁, 20, 3, 8; 1997 AG₁₂, 13, 3, 8; 1997 AU₁₂, 10, 2, 1; 1997 AZ₁₂, 5, 1, 0; 1997 AM₁₃, 13, 3, 8; 1997 AD₁₅, 5, 1, 0; 1997 AV₁₅, 13, 3, 44; 1997 AA₁₇, 9, 2, 516; 1997 AV₁₈, 5, 1, 0; 1997 AN₂₃, 10, 2, 1; 1997 BG, 5, 1, 0; 1997 BM₁, 4, 1, 0; 1997 BS₄, 10, 2, 22; 1997 BD₅, 13, 3, 38; 1997 BH₆, 4, 1, 0; 1997 BO₉, 3, 1, 0; 1997 CZ, 15, 3, 65; 1997 CB₁, 9, 2, 11; 1997 CO₁, 4, 1, 0; 1997 CW₁, 4, 1, 0; 1997 CG₄, 5, 1, 0; 1997 CM₄, 5, 1, 0; 1997 CV₄, 4, 1, 0; 1997 CX₆, 4, 1, 0; 1997 CD₇, 14, 3, 11; 1997 CF₉, 5, 1, 0; 1997 CL₁₃, 8, 2, 8; 1997 CS₁₉, 4, 1, 0; 1997 CH₂₀, 15, 3, 49; 1997 CC₂₁, 3, 1, 0; 1997 CE₂₁, 18, 4, 589; 1997 CT₂₅, 14, 3, 581; 1997 CB₂₆, 5, 1, 0; 1997 CC₂₆, 4, 1, 0; 1997 CL₂₆, 7, 2, 11; 1997 CY₂₇, 5, 1, 0; 1997 CB₂₈, 15, 3, 38; 1997 CY₂₈, 5, 1, 0; 1997 CF₂₉, 9, 2, 1; 1997 DQ, 5, 1, 0; 1997 DU, 4, 1, 0; 1997 DW, 5, 1, 0; 1997 DX, 5, 1, 0; 1997 EC, 12, 2, 27; 1997 EE, 5, 1, 0; 1997 EF, 8, 2, 9; 1997 EH, 8, 2, 5; 1997 EM, 8, 2, 11; 1997 EV, 10, 2, 10; 1997 EO₂, 3, 1, 0; 1997 EY₂, 5, 1, 0; 1

3, 1, 0; 1997 HV₁₁, 3, 1, 0; 1997 HX₁₁, 17, 4, 39; 1997 HS₁₂, 3, 1, 0; 1997 HK₁₆, 5, 1, 0; 1997 JN₈, 2, 6; 1997 JU₇, 5, 1, 0; 1997 JV₇, 5, 1, 0; 1997 JB₈, 3, 1, 0; 1997 JH₁₀, 4, 1, 0; 1997 JS₁₁, 2, 1, 0; 1997 JN₁₂, 10, 2, 11; 1997 JY₁₃, 5, 1, 0; 1997 JH₁₄, 2, 1, 0; 1997 JJ₁₅, 5, 1, 0; 1997 KA₅, 5, 1, 0; 1997 KS₄, 1, 0; 1997 KZ₄, 1, 0; 1997 KO₂, 13, 3, 39; 1997 KH₄, 9, 2, 7; 1997 LB₁, 4, 1, 0; 1997 LP₁, 4, 1, 0; 1997 LL₂, 5, 1, 0; 1997 LY₂, 15, 3, 38; 1997 LO₃, 3, 1, 0; 1997 LB₄, 8, 2, 1; 1997 LE₄, 10, 2, 1; 1997 LF₄, 4, 1, 0; 1997 LT₄, 5, 1, 0; 1997 LA₆, 6, 2, 11; 1997 LB₆, 4, 1, 0; 1997 LE₁₀, 5, 1, 0; 1997 MD₂, 1, 0; 1997 MG₅, 1, 0; 1997 MQ₁, 15, 3, 2; 1997 MU₁, 5, 1, 0; 1997 MA₃, 5, 1, 0; 1997 MN₄, 5, 1, 0; 1997 MV₄, 11, 3, 175; 1997 MY₄, 5, 1, 0; 1997 MQ₆, 8, 2, 87; 1997 MW₆, 4, 1, 0; 1997 MR₈, 3, 1, 0; 1997 MP₉, 5, 1, 0; 1997 NA₄, 4, 1, 0; 1997 NR₂, 23, 4, 5; 1997 NE₃, 5, 1, 0; 1997 NM₃, 4, 1, 0; 1997 OG₁, 3, 1, 0; 1997 OU₂, 4, 1, 0; 1997 PR₅, 5, 1, 0; 1997 PM₂, 9, 2, 8; 1997 PO₂, 4, 1, 0; 1997 PP₂, 3, 1, 0; 1997 PE₃, 5, 1, 0; 1997 PR₃, 13, 3, 2; 1997 PA₄, 5, 1, 0; 1997 PF₄, 3, 1, 0; 1997 PJ₄, 5, 1, 0; 1997 QB₃, 1, 0; 1997 QE₄, 3, 1, 0; 1997 QG₄, 12, 3, 6; 1997 QL₄, 1, 0; 1997 QM₉, 9, 2, 1; 1997 QP₃, 3, 1, 0; 1997 QU₉, 9, 2, 1; 1997 QY₉, 25, 6, 478; 1997 QZ₁₀, 3, 5; 1997 QE₁, 5, 1, 0; 1997 QA₂, 10, 2, 1; 1997 QE₂, 14, 3, 2; 1997 QF₂, 5, 1, 0; 1997 QS₂, 12, 3, 10; 1997 QJ₃, 4, 1, 0; 1997 QN₃, 4, 1, 0; 1997 QT₃, 15, 3, 8; 1997 RF₂, 15, 3, 10; 1997 RH₁₀, 2, 1; 1997 RO₄, 1, 0; 1997 RZ₁₈, 4, 11; 1997 RA₁, 12, 2, 1; 1997 RY₂, 4, 1, 0; 1997 RE₃, 17, 3, 4; 1997 RL₃, 5, 1, 0; 1997 RL₇, 14, 2, 1; 1997 RX₇, 4, 1, 0; 1997 RR₈, 5, 1, 0; 1997 RV₈, 14, 3, 2; 1997 RY₈, 14, 3, 9; 1997 RB₉, 25, 4, 7; 1997 RM₉, 3, 1, 0; 1997 RF₉, 10, 2, 3; 1997 RU₉, 9, 2, 24; 1997 RJ₁₀, 19, 4, 6; 1997 RP₁₀, 5, 1, 0; 1997 SE₄, 1, 0; 1997 SF₅, 5, 1, 0; 1997 SR₄, 4, 1, 0; 1997 SX₁₀, 10, 2, 1; 1997 SK₁, 5, 1, 0; 1997 SM₁, 35, 5, 5; 1997 SN₁, 8, 2, 4; 1997 SA₂, 27, 4, 3; 1997 SE₂, 4, 1, 0; 1997 SZ₂, 20, 4, 3; 1997 SA₃, 33, 6, 9; 1997 SH₃, 3, 1, 0; 1997 SM₃, 8, 2, 7; 1997 SD₄, 4, 1, 0; 1997 SE₄, 32, 5, 5; 1997 SS₄, 8, 2, 1; 1997 SY₄, 4, 1, 0; 1997 SQ₉, 14, 3, 2; 1997 SW₉, 5, 1, 0; 1997 SL₁₀, 15, 3, 5; 1997 SR₁₀, 15, 3, 3; 1997 SF₁₁, 20, 4, 11; 1997 SN₁₁, 3, 1, 0; 1997 SD₁₅, 5, 1, 0; 1997 SC₂₁, 5, 1, 0; 1997 SC₂₁, 18, 4, 11; 1997 SD₂₅, 8, 2, 1; 1997 SC₂₅, 20, 4, 12; 1997 SN₂₅, 20, 4, 4; 1997 SJ₂₉, 4, 1, 0; 1997 SS₃₁, 12, 3, 6; 1997 TR₄, 1, 0; 1997 TK₁, 19, 4, 11; 1997 TM₁, 22, 3, 5; 1997 TU₁, 4, 1, 0; 1997 TL₆, 5, 1, 0; 1997 TW₉, 8, 2, 6; 1997 TZ₁₀, 13, 3, 2; 1997 TV₁₂, 19, 4, 3; 1997 TY₁₆, 5, 1, 0; 1997 TY₁₇, 14, 3, 2; 1997 TB₁₈, 18, 3, 38; 1997 TM₁₈, 40, 7, 15; 1997 TR₁₈, 27, 5, 8; 1997 TX₁₈, 8, 2, 6; 1997 TD₁₉, 10, 2, 1; 1997 TF₁₉, 4, 1, 0; 1997 TH₁₉, 10, 2, 2; 1997 TS₂₂, 31, 5, 5; 1997 TJ₂₄, 9, 2, 1; 1997 TY₂₄, 8, 2, 1; 1997 TA₂₅, 4, 1, 0; 1997 TE₂₅, 9, 2, 1; 1997 TA₂₆, 23, 5, 5; 1997 TF₂₆, 3, 1, 0; 1997 TN₂₆, 20, 4, 3; 1997 TM₂₇, 23, 5, 6; 1997 TB₃₀, 5, 1, 0; 1997 UH₅, 1, 0; 1997 UJ₈, 9, 2, 36; 1997 UC₁, 4, 1, 0; 1997 UG₁, 15, 3, 2; 1997 UL₁, 14, 3, 2; 1997 UU₂, 5, 1, 0; 1997 UJ₃, 8, 2, 2; 1997 UT₃, 11, 3, 3; 1997 UA₇, 5, 1, 0; 1997 UB₇, 20, 4, 15; 1997 UU₇, 10, 2, 5; 1997 UK₈, 10, 2, 1; 1997 UN₈, 7, 2, 7; 1997 UV₈, 13, 3, 3; 1997 UN₉, 4, 1, 0; 1997 UR₉, 8, 2, 1; 1997 UN₁₀, 3, 1, 0; 1997 US₁₀, 5, 1, 0; 1997 UB₁₁, 5, 1, 0; 1997 UC₁₁, 10, 2, 8; 1997 UU₁₁, 4, 1, 0; 1997 UV₁₄, 5, 1, 0; 1997 UW₁₄, 13, 3, 12; 1997 UY₁₄, 13, 3, 2; 1997 UC₁₅, 24, 4, 5; 1997 UG₁₅, 4, 1, 0; 1997 UW₁₈, 20, 4, 15; 1997 UX₂₀, 15, 3, 5; 1997 UA₂₁, 4, 1, 0; 1997 UQ₂₁, 4, 1, 0; 1997 UH₂₂, 8, 2, 1; 1997 UT₂₂, 10, 2, 1; 1997 UZ₂₃, 23, 5, 482; 1997 UD₂₅, 7, 2, 1; 1997 UE₂₅, 17, 3, 10; 1997 VQ₂₄, 5, 5; 1997 VV₅, 5, 1, 0; 1997 VC₁, 5, 1, 0; 1997 VE₁, 4, 1, 0; 1997 VF₁, 9, 2, 1; 1997 VN₁, 25, 5, 5; 1997 VO₁, 8, 2, 1; 1997 VY₁, 18, 4, 3; 1997 VM₂, 25, 5, 4; 1997 VW₂, 9, 2, 2; 1997 VE₃, 5, 1, 0; 1997 VD₄, 8, 2, 2; 1997 VE₄, 4, 1, 0; 1997 VC₅, 6, 2, 1; 1997 VU₆, 9, 2, 2; 1997 VA₇, 3, 1, 0; 1997 VR₇, 10, 2, 1; 1997 VG₈, 15, 3, 10; 1997 VX₈, 9, 2, 3; 1997 WQ₉, 9, 2, 3; 1997 WC₂, 8, 2, 1; 1997 WK₂, 15, 3, 9; 1997 WL₄, 24, 5, 8; 1997 WZ₇, 7, 2, 4; 1997 WO₁₁, 8, 2, 6; 1997 WQ₁₁, 23, 4, 6; 1997 WV₁₃, 19, 3, 3; 1997 WM₁₆, 5, 1, 0; 1997 WZ₁₆, 8, 2, 2; 1997 WP₂₈, 4, 1, 0; 1997 WD₃₀, 3, 1, 0; 1997 WQ₃₁, 4, 1, 0; 1997 WC₃₄, 22, 5, 31; 1997 WE₃₆, 8, 2, 1; 1997 WN₃₆, 12, 3, 9; 1997 WB₃₇, 13, 3, 9; 1997 WN₃₈, 9, 2, 1; 1997 WP₃₈, 8, 2, 1; 1997 WZ₄₂, 8, 2, 1; 1997 WC₄₅, 8, 2, 2; 1997 WE₄₇, 4, 1, 0; 1997 WP₄₇, 14, 3, 9; 1997 WY₄₇, 5, 1, 0; 1997 WN₅₃, 4, 1, 0; 1997 XU₁, 10, 2, 8; 1997 XY₆, 3, 1, 0; 1997 XC₁₀, 10, 2, 9; 1997 XL₁₀, 4, 1, 0; 1997 XY₁₀, 18, 4, 12; 1997 XV₁₃, 4, 1, 0; 1997 YH₁, 14, 3, 2; 1997 YO₁₄, 25, 3, 6; 1997 YQ₁₉, 17, 4, 12; 1997 YE₂₁, 4, 1, 0; 1998 AV₅, 5, 1, 0; 1998 AN₈, 4, 1, 0; 1998 BX₁₃, 20, 4, 15; 1998 BZ₂₆, 5, 1, 0; 1998 CE₂, 5, 1, 0; 1998 DO₇, 30, 5, 30; 1998 DT₇, 8, 2, 2; 1998 DC₁₄, 9, 2, 6; 1998 DQ₂₇, 13, 3, 8; 1998 DG₃₅, 9, 2, 21; 1998 DR₃₅, 5, 1, 0; 1998 EJ₂, 10, 2, 2; 1998 EQ₆, 17, 3, 8; 1998 EA₉, 5, 1, 0; 1998 EZ₁₀, 8, 2, 8; 1998 EE₁₂, 5, 1, 0; 1998 EU₁₂, 24, 5, 30; 1998 EW₁₂, 10, 2, 5; 1998 ER₁₄, 15, 3, 39; 1998 FF₂, 9, 2, 7; 1998 FG₄, 8, 2, 9; 1998 FK₅, 5, 1, 0; 1998 FM₈, 10, 2, 1; 1998 FP₁₀, 4, 1, 0; 1998 FA₁₁, 5, 1, 0; 1998 FU₁₁, 5, 1, 0; 1998 FB₁₂, 25, 5, 12; 1998 FX₁₅, 5, 1, 0; 1998 FV₂₈, 8, 2, 3; 1998 FD₃₀, 15, 3, 8; 1998 FG₃₀, 25, 5, 12; 1998 FN₄₁, 13, 3, 8; 1998 FY₄₁, 14, 3, 6; 1998 FC₄₂, 5, 1, 0; 1998 FZ₄₆, 20, 4, 11; 1998 FR₄₈, 24, 5, 30; 1998 FE₄₉, 9, 2, 6; 1998 FM₄₉, 5, 1, 0; 1998 FL₅₀, 10, 2, 1; 1998 FW₅₀, 14, 3, 10; 1998 FW₅₁, 12, 3, 27; 1998 FZ₅₅, 14, 3, 12; 1998 FM₅₇, 23, 5, 30; 1998 FS₅₇, 5, 1, 0; 1998 FC₅₈, 18, 3, 8; 1998 FG₆₁, 24, 5, 30; 1998 FR₆₂, 10, 2, 12; 1998 FZ₆₃, 8, 2, 1; 1998 FZ₆₄, 24, 5, 12; 1998 FK₆₅, 10, 2, 11; 1998 FV₆₅, 18, 4, 12; 1998 FK₆₇, 5, 1, 0; 1998 FA₆₉, 20, 4, 10; 1998 FA₇₀, 8, 2, 10; 1998 FC₇₁, 22, 4, 27; 1998 FG₇₁, 13, 3, 6; 1998 FK₇₁, 4, 1, 0; 1998 FZ₇₁, 18, 4, 10; 1998 FR₇₂, 10, 2, 10; 1998 FP₇₅, 8, 2, 7; 1998 FF₇₇, 6, 1, 0; 1998 FM₇₈, 15, 3, 11; 1998 FV₇₈, 4, 1, 0; 1998 FT₇₉, 7, 2, 8; 1998 FK₁₀₁, 4, 1, 0; 1998 FO₁₀₃, 10, 2, 11; 1998 FH₁₀₄, 5, 1, 0; 1998 FB₁₀₆, 10, 2, 11; 1998 FN₁₀₉, 5, 1, 0; 1998 FP₁₀₉, 4, 1, 0; 1998 FT₁₁₀, 5, 1, 0; 1998 FP₁₁₃, 5, 1, 0; 1998 FS₁₁₃, 22, 5, 15; 1998 FB₁₁₈, 10, 2, 5; 1998 FW₁₁₈, 15, 3, 14; 1998 FU₁₂₀, 19, 4, 14; 1998 FT₁₂₁, 14, 3, 10; 1998 FQ₁₂₂, 20, 4, 12; 1998 FN₁₂₆, 15, 2, 1; 1998 FU₁₃₃, 10, 2, 2; 1998 GO₁₀, 19, 4, 12; 1998 GP₁₁, 7, 2, 3; 1998 HN₁, 5, 1, 0; 1998 HU₂, 9, 2, 28; 1998 HX₂, 10, 2, 9; 1998 HO₃, 15, 3, 6;

1998 HH₄, 5, 1, 0; 1998 HT₄, 15, 3, 22; 1998 HO₅, 8, 2, 7; 1998 HU₅, 10, 2, 10; 1998 HU₆, 5, 1, 0; 1998 HG₇, 25, 4, 27; 1998 HL₇, 5, 1, 0; 1998 HD₈, 5, 1, 0; 1998 HT₁₀, 8, 2, 26; 1998 HB₁₁, 10, 2, 28; 1998 HX₁₈, 14, 3, 10; 1998 HZ₁₈, 9, 2, 1; 1998 HK₂₀, 9, 2, 5; 1998 HN₂₁, 7, 2, 2; 1998 HQ₂₃, 14, 3, 10; 1998 HO₂₇, 5, 1, 0; 1998 HQ₂₇, 19, 4, 9; 1998 HF₃₀, 24, 5, 12; 1998 HO₃₀, 3, 1, 0; 1998 HU₃₁, 19, 4, 15; 1998 HD₃₂, 4, 1, 0; 1998 HE₃₂, 10, 2, 10; 1998 HN₃₂, 20, 4, 28; 1998 HU₃₂, 10, 2, 5; 1998 HR₃₄, 14, 3, 12; 1998 HQ₃₅, 3, 1, 0; 1998 HY₃₅, 15, 3, 10; 1998 HC₃₆, 30, 5, 28; 1998 HG₃₇, 15, 3, 16; 1998 HY₃₇, 12, 3, 9; 1998 HE₃₈, 14, 3, 11; 1998 HO₃₈, 5, 1, 0; 1998 HH₄₃, 4, 1, 0; 1998 HO₄₃, 18, 4, 30; 1998 HY₄₃, 12, 3, 38; 1998 HG₄₄, 10, 2, 4; 1998 HV₄₅, 28, 6, 535; 1998 HC₄₆, 5, 1, 0; 1998 HN₄₆, 5, 1, 0; 1998 HV₄₇, 9, 2, 1; 1998 HA₄₈, 5, 1, 0; 1998 HC₄₈, 17, 4, 36; 1998 HN₄₉, 9, 2, 5; 1998 HK₅₀, 4, 1, 0; 1998 HU₅₀, 16, 4, 11; 1998 HW₅₀, 4, 1, 0; 1998 HR₅₁, 10, 2, 4; 1998 HS₅₁, 17, 4, 14; 1998 HT₅₁, 16, 4, 14; 1998 HU₅₁, 14, 3, 12; 1998 HH₅₂, 5, 1, 0; 1998 HG₅₃, 10, 2, 11; 1998 HR₆₇, 27, 6, 15; 1998 HL₇₉, 5, 1, 0; 1998 HN₈₀, 9, 2, 11; 1998 HH₈₆, 8, 2, 9; 1998 HE₈₇, 10, 2, 3; 1998 HH₉₁, 4, 1, 0; 1998 HL₉₁, 5, 1, 0; 1998 HZ₉₂, 25, 5, 12; 1998 HK₉₄, 24, 5, 14; 1998 HV₉₅, 5, 1, 0; 1998 HG₉₇, 19, 4, 558; 1998 HR₉₇, 13, 3, 3; 1998 HV₉₇, 15, 3, 10; 1998 HA₉₈, 13, 3, 5; 1998 HF₉₈, 5, 1, 0; 1998 HJ₉₈, 20, 4, 10; 1998 HQ₉₈, 10, 2, 505; 1998 HC₉₉, 3, 1, 0; 1998 HQ₁₀₀, 14, 3, 8; 1998 HY₁₀₀, 8, 2, 5; 1998 HL₁₀₁, 14, 3, 23; 1998 HZ₁₀₁, 14, 3, 5; 1998 HF₁₀₂, 17, 4, 10; 1998 HJ₁₀₂, 5, 1, 0; 1998 HO₁₀₂, 15, 3, 11; 1998 HS₁₀₂, 10, 2, 6; 1998 HC₁₀₈, 10, 1, 0; 1998 HB₁₁₄, 5, 1, 0; 1998 HA₁₂₀, 4, 1, 0; 1998 HE₁₂₃, 4, 1, 0; 1998 HN₁₂₃, 5, 1, 0; 1998 HD₁₂₄, 10, 2, 38; 1998 HN₁₂₈, 5, 1, 0; 1998 HA₁₃₈, 5, 1, 0; 1998 HP₁₃₉, 10, 2, 4; 1998 HN₁₄₃, 5, 1, 0; 1998 HY₁₄₇, 4, 1, 0; 1998 HA₁₄₈, 10, 2, 4; 1998 HE₁₄₈, 12, 3, 8; 1998 HK₁₄₈, 16, 4, 33; 1998 HS₁₄₈, 9, 2, 5; 1998 HW₁₄₈, 18, 4, 30; 1998 HD₁₄₉, 23, 5, 30; 1998 HT₁₄₉, 20, 4, 30; 1998 HW₁₅₀, 9, 2, 11; 1998 JS₁₄, 3, 3; 1998 JX₈, 10, 2, 10; 1998 JJ₁, 10, 2, 10; 1998 JP₁, 4, 1, 0; 1998 JT₁, 9, 2, 6; 1998 JB₂, 12, 3, 8; 1998 JP₂, 4, 1, 0; 1998 KB₉, 9, 2, 5; 1998 KU₁₀, 10, 2, 28; 1998 KZ₄, 1, 0; 1998 KR₁, 10, 2, 5; 1998 KS₃, 12, 3, 38; 1998 KA₄, 3, 1, 0; 1998 KB₄, 10, 2, 27; 1998 KP₄, 10, 2, 5; 1998 KQ₄, 9, 2, 27; 1998 KS₄, 5, 1, 0; 1998 KU₄, 9, 2, 3; 1998 KB₇, 21, 5, 6; 1998 KC₈, 5, 1, 0; 1998 KT₈, 5, 1, 0; 1998 KY₈, 3, 1, 0; 1998 KB₉, 10, 2, 22; 1998 KK₉, 4, 1, 0; 1998 KN₉, 9, 2, 10; 1998 KD₁₀, 10, 2, 28; 1998 KJ₁₀, 9, 2, 1; 1998 KX₁₀, 5, 1, 0; 1998 KS₂₀, 5, 1, 0; 1998 KW₂₅, 5, 1, 0; 1998 KN₂₆, 4, 1, 0; 1998 KZ₂₆, 10, 2, 6; 1998 KH₂₇, 10, 2, 11; 1998 KG₂₈, 14, 3, 30; 1998 KO₂₈, 5, 1, 0; 1998 KA₂₉, 10, 1, 0; 1998 KH₃₂, 10, 2, 10; 1998 KG₃₂, 5, 1, 0; 1998 KU₃₃, 24, 5, 30; 1998 KG₃₅, 5, 1, 0; 1998 KQ₃₅, 19, 4, 10; 1998 KF₃₆, 31, 7, 30; 1998 KE₃₇, 15, 3, 9; 1998 KK₃₈, 5, 1, 0; 1998 KU₃₈, 5, 1, 0; 1998 KB₄₄, 9, 2, 2; 1998 KQ₄₄, 10, 2, 2; 1998 KJ₄₅, 4, 1, 0; 1998 KM₄₅, 17, 4, 14; 1998 KQ₄₅, 14, 3, 8; 1998 KX₄₆, 15, 3, 10; 1998 KY₄₆, 4, 1, 0; 1998 KE₄₇, 9, 2, 10; 1998 KJ₄₇, 14, 3, 10; 1998 KK₄₇, 4, 1, 0; 1998 KV₅₀, 15, 3, 10; 1998 KS₅₁, 4, 1, 0; 1998 KL₅₂, 15, 2, 10; 1998 KT₅₅, 5, 1, 0; 1998 KG₅₆, 5, 1, 0; 1998 KS₅₆, 18, 4, 41; 1998 KY₅₇, 4, 1, 0; 1998 KD₅₈, 32, 6, 14; 1998 KJ₅₈, 30, 5, 12; 1998 KG₆₄, 8, 2, 11; 1998 KK₆₄, 18, 4, 27; 1998 KA₆₅, 5, 1, 0; 1998 KJ₆₆, 14, 3, 12; 1998 LA₂, 22, 5, 30; 1998 LN₂, 5, 1, 0; 1998 LP₂, 10, 2, 9; 1998 LV₂, 5, 1, 0; 1998 MC₁₅, 3, 8; 1998 MX₁₀, 10, 2, 28; 1998 MB₁, 25, 5, 14; 1998 MP₂, 9, 2, 1; 1998 MW₂, 22, 5, 539; 1998 MF₅, 3, 1, 0; 1998 MK₅, 10, 2, 175; 1998 MO₅, 5, 1, 0; 1998 MN₇, 8, 2, 10; 1998 MY₇, 14, 3, 103; 1998 MQ₈, 9, 2, 6; 1998 MD₉, 10, 2, 8; 1998 MZ₁₁, 14, 3, 118; 1998 MD₁₃, 15, 3, 30; 1998 MG₁₃, 4, 1, 0; 1998 MR₁₅, 5, 1, 0; 1998 ML₁₆, 4, 1, 0; 1998 MN₁₆, 4, 1, 0; 1998 MQ₁₇, 10, 2, 1; 1998 MP₂₂, 9, 2, 10; 1998 MZ₂₃, 9, 2, 175; 1998 MH₂₇, 5, 1, 0; 1998 MV₂₇, 9, 2, 1; 1998 MC₂₈, 4, 1, 0; 1998 MS₂₈, 4, 1, 0; 1998 MP_{31</}

2000 APR. 18

M.P.C. 39759

1, 0; 1998 QY₄₀, 5, 1, 0; 1998 QC₄₁, 4, 1, 0; 1998 QL₄₁, 3, 1, 0; 1998 QY₄₂, 4, 1, 0; 1998 QB₄₃, 4, 1, 0; 1998 QE₄₃, 4, 1, 0; 1998 QJ₄₃, 5, 1, 0; 1998 QL₄₃, 5, 1, 0; 1998 QZ₄₃, 5, 1, 0; 1998 QA₄₄, 20, 5, 6; 1998 QJ₄₄, 4, 1, 0; 1998 QK₄₄, 13, 3, 38; 1998 QC₄₅, 12, 3, 51; 1998 QN₄₅, 4, 1, 0; 1998 QP₄₅, 5, 1, 0; 1998 QV₄₅, 29, 5, 4; 1998 QB₄₇, 9, 2, 6; 1998 QT₄₇, 13, 3, 116; 1998 QB₄₈, 5, 1, 0; 1998 QF₄₈, 3, 1, 0; 1998 QS₄₈, 3, 1, 0; 1998 QN₄₉, 7, 2, 11; 1998 QJ₅₀, 8, 2, 1; 1998 QT₅₀, 5, 1, 0; 1998 QV₅₀, 9, 2, 29; 1998 QW₅₀, 5, 1, 0; 1998 QC₅₁, 4, 1, 0; 1998 QK₅₁, 9, 2, 120; 1998 QN₅₁, 7, 2, 1; 1998 QT₅₁, 4, 1, 0; 1998 QC₅₂, 4, 1, 0; 1998 QH₅₅, 7, 2, 1; 1998 QU₅₂, 6, 2, 10; 1998 QY₅₂, 3, 1, 0; 1998 QN₅₃, 9, 2, 6; 1998 QE₅₄, 5, 1, 0; 1998 QF₅₄, 3, 1, 0; 1998 QT₅₄, 11, 3, 56; 1998 QX₅₄, 27, 5, 4; 1998 QZ₅₄, 9, 2, 4; 1998 QD₅₅, 13, 3, 2; 1998 QH₅₅, 9, 2, 4; 1998 QM₅₅, 12, 3, 2; 1998 QV₅₅, 18, 4, 3; 1998 QG₅₆, 5, 1, 0; 1998 QS₅₆, 12, 3, 500; 1998 QX₅₇, 7, 2, 1; 1998 QC₅₈, 14, 2, 1; 1998 QR₅₈, 18, 4, 5; 1998 QK₆₁, 8, 2, 145; 1998 QW₆₂, 4, 1, 0; 1998 QK₆₃, 3, 1, 0; 1998 QJ₇₀, 8, 2, 1; 1998 QL₇₀, 3, 1, 0; 1998 QX₇₀, 13, 3, 36; 1998 QE₇₁, 4, 1, 0; 1998 QU₇₁, 9, 2, 455; 1998 QL₇₃, 3, 1, 0; 1998 QV₇₃, 5, 1, 0; 1998 QB₇₅, 23, 5, 532; 1998 QC₇₅, 3, 1, 0; 1998 QP₇₅, 9, 2, 50; 1998 QM₇₆, 9, 2, 1; 1998 QV₇₇, 4, 1, 0; 1998 QY₇₇, 3, 1, 0; 1998 QF₇₈, 8, 2, 25; 1998 QD₇₉, 4, 1, 0; 1998 QP₇₉, 5, 1, 0; 1998 QF₈₀, 4, 1, 0; 1998 QT₈₄, 3, 1, 0; 1998 QN₈₅, 14, 3, 173; 1998 QG₈₆, 5, 1, 0; 1998 QW₈₆, 4, 1, 0; 1998 QX₈₆, 5, 1, 0; 1998 QA₈₇, 3, 1, 0; 1998 QO₈₇, 5, 1, 0; 1998 QE₈₈, 5, 1, 0; 1998 QV₈₈, 5, 1, 0; 1998 QM₉₀, 7, 2, 139; 1998 QP₉₀, 12, 3, 5; 1998 QC₉₁, 5, 1, 0; 1998 QR₉₁, 20, 4, 5; 1998 QS₉₁, 14, 3, 3; 1998 QV₉₁, 14, 3, 5; 1998 QX₉₁, 5, 1, 0; 1998 QY₉₁, 4, 1, 0; 1998 QC₉₂, 30, 5, 5; 1998 QF₉₂, 20, 4, 3; 1998 QJ₉₂, 4, 1, 0; 1998 QL₉₂, 30, 5, 5; 1998 QO₉₂, 9, 2, 2; 1998 QS₉₂, 9, 2, 7; 1998 QU₉₂, 13, 3, 11; 1998 QW₉₂, 16, 4, 31; 1998 QH₉₃, 8, 2, 7; 1998 QN₉₃, 9, 2, 1; 1998 QO₉₃, 8, 2, 7; 1998 QP₉₃, 40, 8, 512; 1998 QR₉₃, 14, 3, 11; 1998 QC₉₅, 5, 1, 0; 1998 QK₉₅, 10, 2, 10; 1998 QA₉₈, 10, 2, 4; 1998 QM₉₈, 14, 3, 1082; 1998 QP₉₈, 4, 1, 0; 1998 QS₉₈, 19, 4, 12; 1998 QD₉₉, 4, 1, 0; 1998 QE₁₀₀, 18, 4, 13; 1998 QN₁₀₀, 13, 3, 3; 1998 QW₁₀₀, 5, 1, 0; 1998 QH₁₀₁, 9, 2, 6; 1998 QQ₁₀₁, 5, 1, 0; 1998 QW₁₀₁, 5, 1, 0; 1998 QB₁₀₂, 9, 2, 6; 1998 QD₁₀₂, 5, 1, 0; 1998 QG₁₀₂, 10, 2, 11; 1998 QN₁₀₂, 9, 2, 6; 1998 QY₁₀₂, 15, 3, 522; 1998 QF₁₀₃, 4, 1, 0; 1998 QL₁₀₃, 9, 2, 7; 1998 QU₁₀₃, 9, 2, 164; 1998 QD₁₀₄, 14, 3, 10; 1998 QF₁₀₄, 5, 1, 0; 1998 QS₁₀₄, 13, 3, 495; 1998 QL₁₀₅, 8, 2, 163; 1998 QP₁₀₅, 34, 8, 11; 1998 QM₁₀₆, 5, 1, 0; 1998 QU₁₀₆, 15, 3, 173; 1998 QX₁₀₆, 5, 1, 0; 1998 RB₃, 1, 0; 1998 RG₁₀, 2, 137; 1998 RH₅, 5, 1, 0; 1998 RS₁₀, 3, 64; 1998 RJ₁, 12, 3, 173; 1998 RV₁, 10, 2, 140; 1998 RA₂, 5, 1, 0; 1998 RH₂, 4, 1, 0; 1998 RQ₂, 20, 5, 13; 1998 RM₃, 8, 2, 4; 1998 RO₃, 4, 1, 0; 1998 RJ₄, 8, 2, 7; 1998 RT₄, 10, 2, 5; 1998 RV₄, 8, 2, 11; 1998 RC₅, 8, 2, 1; 1998 RS₅, 8, 1, 0; 1998 RU₅, 10, 3, 51; 1998 RD₆, 5, 1, 0; 1998 RJ₆, 3, 1, 0; 1998 RO₆, 10, 2, 6; 1998 RC₈, 13, 3, 29; 1998 RH₁₆, 19, 4, 14; 1998 RN₂₂, 7, 2, 1; 1998 RR₂₂, 5, 1, 0; 1998 RB₂₆, 5, 1, 0; 1998 RD₂₆, 9, 2, 6; 1998 RG₂₇, 5, 1, 0; 1998 RC₂₉, 4, 1, 0; 1998 RS₃₂, 4, 1, 0; 1998 RT₃₂, 9, 2, 6; 1998 RK₃₄, 3, 1, 0; 1998 RM₃₄, 5, 1, 0; 1998 RP₃₇, 15, 3, 3; 1998 RO₃₈, 3, 1, 0; 1998 RV₃₉, 4, 1, 0; 1998 RW₄₂, 7, 2, 11; 1998 RO₄₄, 13, 3, 10; 1998 RP₄₄, 3, 1, 0; 1998 RA₄₅, 9, 2, 7; 1998 RA₄₇, 9, 2, 1; 1998 RU₄₇, 3, 1, 0; 1998 RJ₄₈, 4, 1, 0; 1998 RV₄₈, 4, 1, 0; 1998 RK₄₉, 32, 6, 12; 1998 RA₅₂, 21, 5, 4; 1998 RF₅₂, 5, 1, 0; 1998 RD₅₃, 4, 1, 0; 1998 RL₅₄, 5, 1, 0; 1998 RZ₅₄, 8, 2, 1; 1998 RB₅₅, 8, 2, 139; 1998 RC₅₅, 15, 1, 0; 1998 RO₅₅, 15, 3, 5; 1998 RV₅₅, 4, 1, 0; 1998 RW₅₅, 8, 2, 485; 1998 RZ₅₅, 13, 3, 7; 1998 RN₅₆, 13, 3, 5; 1998 RQ₅₆, 5, 1, 0; 1998 RA₅₇, 4, 1, 0; 1998 RB₅₇, 9, 2, 38; 1998 RT₅₇, 5, 1, 0; 1998 RZ₅₇, 36, 7, 97; 1998 RA₅₈, 10, 2, 1; 1998 RN₅₈, 4, 1, 0; 1998 RQ₅₈, 5, 1, 0; 1998 RW₅₈, 5, 1, 0; 1998 RF₆₀, 5, 1, 0; 1998 RG₆₁, 3, 1, 0; 1998 RP₆₁, 4, 1, 0; 1998 RD₆₂, 25, 5, 11; 1998 RL₆₂, 14, 3, 167; 1998 RB₆₃, 4, 1, 0; 1998 RH₆₃, 8, 2, 552; 1998 RK₆₃, 5, 1, 0; 1998 RT₆₃, 9, 2, 1; 1998 RA₆₄, 3, 1, 0; 1998 RJ₆₄, 3, 1, 0; 1998 RX₆₄, 8, 2, 1; 1998 RK₆₅, 4, 1, 0; 1998 RB₆₆, 5, 1, 0; 1998 RH₆₆, 5, 1, 0; 1998 RK₆₆, 3, 1, 0; 1998 RT₆₆, 7, 1, 0; 1998 RJ₆₇, 5, 1, 0; 1998 RS₆₇, 4, 1, 0; 1998 RS₆₈, 8, 2, 7; 1998 RB₆₉, 5, 1, 0; 1998 RC₆₉, 5, 1, 0; 1998 RU₆₉, 13, 2, 1; 1998 RN₇₀, 5, 1, 0; 1998 RW₇₀, 18, 4, 13; 1998 RD₇₁, 7, 2, 52; 1998 RE₇₁, 3, 1, 0; 1998 RK₇₁, 17, 4, 13; 1998 RP₇₁, 18, 4, 6; 1998 RY₇₁, 5, 1, 0; 1998 RZ₇₁, 5, 1, 0; 1998 RC₇₂, 12, 3, 2; 1998 RL₇₂, 12, 2, 1; 1998 RT₇₂, 29, 5, 5; 1998 RU₇₂, 20, 4, 31; 1998 RA₇₃, 5, 1, 0; 1998 RM₇₃, 3, 1, 0; 1998 RW₇₃, 5, 1, 0; 1998 RB₇₄, 14, 3, 69; 1998 RC₇₄, 4, 1, 0; 1998 RH₇₄, 9, 2, 10; 1998 RO₇₄, 14, 3, 3; 1998 RR₇₄, 8, 2, 1; 1998 RS₇₄, 3, 1, 0; 1998 RX₇₄, 5, 1, 0; 1998 RA₇₅, 9, 2, 6; 1998 RB₇₅, 18, 4, 6; 1998 RG₇₅, 9, 2, 3; 1998 RH₇₅, 4, 1, 0; 1998 RK₇₅, 20, 4, 4; 1998 RP₇₅, 23, 5, 97; 1998 RH₇₆, 5, 1, 0; 1998 RW₇₆, 4, 1, 0; 1998 RZ₇₆, 11, 3, 51; 1998 RB₇₇, 4, 1, 0; 1998 RD₇₇, 18, 4, 11; 1998 RR₇₇, 14, 3, 10; 1998 RY₇₇, 5, 1, 0; 1998 RM₇₈, 5, 1, 0; 1998 RP₇₈, 16, 4, 11; 1998 RU₇₈, 3, 1, 0; 1998 RY₇₈, 7, 2, 9; 1998 RU₇₉, 7, 1, 0; 1998 RW₇₉, 20, 4, 5; 1998 RX₇₉, 13, 3, 6; 1998 RZ₇₉, 8, 2, 8; 1998 RL₈₀, 18, 4, 13; 1998 RO₈₀, 18, 4, 67; 1998 SA₈, 2, 75; 1998 SC₄, 4, 1, 0; 1998 SV₉, 9, 2, 7; 1998 SG₁, 15, 3, 2; 1998 SN₁, 5, 1, 0; 1998 SO₁, 4, 1, 0; 1998 SQ₁, 14, 3, 11; 1998 SO₂, 9, 2, 5; 1998 SS₂, 5, 1, 0; 1998 SA₄, 4, 1, 0; 1998 SJ₄, 8, 2, 1; 1998 SM₄, 5, 1, 0; 1998 SR₄, 12, 3, 3; 1998 SW₄, 14, 3, 488; 1998 SG₅, 5, 1, 0; 1998 ST₇, 17, 2, 1; 1998 SK₈, 4, 1, 0; 1998 SE₁₀, 4, 1, 0; 1998 SJ₁₀, 5, 1, 0; 1998 SU₁₀, 4, 1, 0; 1998 SV₁₂, 5, 1, 0; 1998 SX₁₂, 5, 1, 0; 1998 SB₁₃, 4, 1, 0; 1998 SN₁₃, 14, 3, 11; 1998 SG₁₅, 3, 1, 0; 1998 SS₁₉, 14, 3, 508; 1998 SR₂₁, 4, 1, 0; 1998 SU₂₁, 13, 2, 1; 1998 SZ₂₁, 8, 2, 1; 1998 SA₂₂, 25, 5, 4; 1998 SN₂₂, 15, 2, 1; 1998 SV₂₂, 10, 2, 1; 1998 SW₂₂, 5, 1, 0; 1998 SQ₂₃, 5, 1, 0; 1998 SW₂₃, 5, 1, 0; 1998 SA₂₄, 9, 2, 163; 1998 SD₂₄, 13, 3, 3; 1998 SU₂₄, 20, 4, 15; 1998 SV₂₄, 4, 1, 0; 1998 SW₂₄, 6, 2, 1024; 1998 SZ₂₄, 9, 2, 420; 1998 SA₂₅, 18, 4, 15; 1998 SE₂₅, 4, 1, 0; 1998 SH₂₅, 3, 1, 0; 1998 SJ₂₅, 15, 3, 9; 1998 SS₂₅, 9, 2, 4; 1998 SZ₂₅, 19, 4, 13; 1998 SA₂₆, 10, 2, 1; 1998 SJ₂₆, 4, 1, 0; 1998 SR₂₆, 4, 1, 0; 1998 SS₂₆, 25, 5, 5; 1998 SF₂₇, 12, 2, 1; 1998 SN₂₇, 14, 3, 173; 1998 SS₂₇, 5, 1, 0; 1998 SA₂₈,

3, 1, 0; 1998 SP₂₈, 3, 1, 0; 1998 SY₃₁, 9, 2, 1; 1998 SW₃₂, 27, 6, 6; 1998 SX₃₃, 5, 1, 0; 1998 SM₃₄, 40, 5, 5; 1998 SN₃₄, 4, 1, 0; 1998 SX₃₄, 14, 3, 587; 1998 SL₃₅, 10, 2, 1; 1998 SO₃₅, 9, 2, 423; 1998 SQ₃₅, 11, 2, 60; 1998 SF₃₇, 9, 2, 1; 1998 SP₃₇, 14, 3, 3; 1998 SU₃₇, 10, 2, 4; 1998 SV₃₈, 20, 5, 1065; 1998 SU₄₀, 10, 2, 38; 1998 SM₄₁, 56, 6, 6; 1998 SQ₄₂, 8, 2, 1; 1998 SU₄₂, 5, 1, 0; 1998 SD₄₃, 9, 2, 7; 1998 SE₄₃, 8, 2, 7; 1998 SK₄₃, 11, 3, 13; 1998 ST₄₃, 5, 1, 0; 1998 SE₄₄, 5, 1, 0; 1998 SD₄₆, 9, 2, 1; 1998 SG₄₆, 16, 4, 30; 1998 SK₄₈, 9, 2, 1; 1998 SM₄₈, 4, 1, 0; 1998 SN₄₈, 13, 3, 3; 1998 SC₄₉, 4, 1, 0; 1998 SF₄₉, 9, 2, 163; 1998 SN₅₀, 19, 4, 3; 1998 SO₅₀, 23, 5, 5; 1998 ST₅₂, 18, 4, 32; 1998 SW₅₂, 8, 2, 1; 1998 SS₅₃, 10, 2, 107; 1998 ST₅₃, 3, 1, 0; 1998 SP₅₄, 24, 5, 4; 1998 SC₅₅, 33, 5, 12; 1998 SW₅₅, 25, 6, 6; 1998 SX₅₅, 7, 2, 7; 1998 SB₅₆, 10, 2, 54; 1998 SC₅₆, 9, 2, 35; 1998 SX₅₆, 7, 2, 1; 1998 SF₅₇, 9, 3, 614; 1998 SL₅₇, 11, 3, 171; 1998 SQ₅₇, 3, 1, 0; 1998 SV₅₇, 19, 4, 12; 1998 SY₅₇, 3, 1, 0; 1998 SZ₅₇, 4, 1, 0; 1998 SR₅₈, 10, 2, 3; 1998 ST₅₈, 9, 2, 26; 1998 SV₅₈, 5, 1, 0; 1998 SA₅₉, 5, 1, 0; 1998 SD₅₉, 3, 1, 0; 1998 SE₅₉, 4, 1, 0; 1998 SO₅₉, 5, 1, 0; 1998 SG₆₀, 15, 3, 173; 1998 SY₆₀, 23, 5, 12; 1998 SS₆₁, 5, 1, 0; 1998 SU₆₂, 3, 1, 0; 1998 SX₆₂, 4, 1, 0; 1998 SK₆₃, 21, 4, 173; 1998 SM₆₃, 10, 2, 3; 1998 ST₆₃, 5, 1, 0; 1998 SY₆₃, 9, 2, 7; 1998 SH₆₄, 4, 1, 0; 1998 SJ₆₄, 28, 6, 93; 1998 SL₆₄, 5, 1, 0; 1998 SM₆₄, 9, 2, 4; 1998 SV₆₄, 8, 2, 1; 1998 SB₆₅, 10, 2, 172; 1998 SL₆₅, 5, 1, 0; 1998 SU₆₅, 17, 4, 16; 1998 SV₆₅, 4, 1, 0; 1998 SZ₆₅, 4, 1, 0; 1998 SC₆₆, 4, 1, 0; 1998 SD₆₇, 4, 1, 0; 1998 SN₆₇, 15, 3, 10; 1998 SA₇₁, 15, 3, 2; 1998 SH₇₁, 12, 3, 8; 1998 SX₇₁, 4, 1, 0; 1998 SY₇₂, 25, 4, 3; 1998 SA₇₃, 18, 4, 12; 1998 SG₇₃, 19, 4, 12; 1998 SG₇₄, 15, 3, 12; 1998 SK₇₄, 17, 4, 59; 1998 SU₇₄, 7, 2, 173; 1998 SW₇₄, 19, 4, 12; 1998 SZ₇₉, 5, 1, 0; 1998 SA₈₇, 5, 1, 0; 1998 SM₉₁, 4, 1, 0; 1998 SZ₉₉, 5, 1, 0; 1998 SA₁₀₁, 4, 1, 0; 1998 SO₁₀₁, 6, 1, 0; 1998 SE₁₀₂, 25, 4, 6; 1998 SC₁₀₃, 10, 3, 11; 1998 SG₁₀₅, 5, 1, 0; 1998 SH₁₀₅, 8, 2, 7; 1998 SV₁₀₅, 19, 4, 13; 1998 SD₁₀₆, 3, 1, 0; 1998 SY₁₀₆, 16, 3, 9; 1998 SG₁₀₇, 6, 2, 1; 1998 SR₁₀₇, 5, 1, 0; 1998 SA₁₀₉, 19, 4, 11; 1998 SJ₁₀₉, 5, 1, 0; 1998 SA₁₁₀, 5, 1, 0; 1998 SD₁₁₀, 5, 1, 0; 1998 ST₁₁₀, 9, 2, 10; 1998 SV₁₁₀, 24, 5, 6; 1998 SE₁₁₁, 10, 2, 1; 1998 SR₁₁₁, 5, 1, 0; 1998 SA₁₁₂, 15, 4, 177; 1998 SC₁₁₂, 5, 1, 0; 1998 SD₁₁₂, 5, 1, 0; 1998 SK₁₁₅, 3, 1, 0; 1998 SM₁₁₅, 3, 1, 0; 1998 SR₁₁₅, 5, 1, 0; 1998 SX₁₁₅, 4, 1, 0; 1998 SY₁₁₅, 4, 1, 0; 1998 SH₁₁₆, 8, 2, 138; 1998 SM₁₁₆, 9, 2, 143; 1998 SR₁₁₆, 5, 1, 0; 1998 SE₁₁₇, 5, 1, 0; 1998 SL₁₁₇, 8, 2, 176; 1998 SV₁₁₇, 12, 3, 2; 1998 SA₁₁₈, 16, 4, 452; 1998 SJ₁₁₈, 5, 1, 0; 1998 SK₁₁₈, 10, 2, 90; 1998 ST₁₁₈, 19, 4, 6; 1998 SY₁₁₈, 5, 1, 0; 1998 SC₁₁₉, 5, 1, 0; 1998 ST₁₁₉, 5, 1, 0; 1998 SB₁₂₁, 3, 1, 0; 1998 SF₁₂₁, 8, 2, 4; 1998 SC₁₂₂, 15, 3, 3; 1998 SW₁₂₂, 9, 2, 1; 1998 SY₁₂₂, 3, 1, 0; 1998 SD₁₂₃, 10, 2, 1; 1998 SJ₁₂₃, 5, 1, 0; 1998 SX₁₂₃, 19, 4, 5; 1998 SE₁₂₄, 4, 1, 0; 1998 SK₁₂₄, 24, 5, 32; 1998 SL₁₂₄, 5, 1, 0; 1998 SU₁₂₄, 12, 3, 177; 1998 SD₁₂₅, 9, 2, 6; 1998 SK₁₂₅, 13, 3, 38; 1998 SN₁₂₅, 10, 2, 59; 1998 SE₁₂₆, 9, 2, 1; 1998 SX₁₂₆, 4, 1, 0; 1998 SU₁₂₇, 3, 1, 0; 1998 SY₁₂₈, 4, 1, 0; 1998 SM₁₂₉, 4, 1, 0; 1998 SU₁₂₉, 5, 1, 0; 1998 SW₁₂₉, 15, 3, 89; 1998 SS₁₃₀, 4, 1, 0; 1998 ST₁₃₀, 8, 2, 151; 1998 SV₁₃₀, 4, 1, 0; 1998 ST₁₃₁, 5, 1, 0; 1998 SY₁₃₁, 5, 1, 0; 1998 SC₁₃₂, 8, 2, 1; 1998 SE₁₃₂, 3, 1, 0; 1998 SG₁₃₂, 7, 2, 7; 1998 SR₁₃₂, 18, 4, 11; 1998 SS₁₃₂, 12, 3, 39; 1998 SV₁₃₂, 7, 2, 165; 1998 SH₁₃₃, 5, 1, 0; 1998 SM₁₃₃, 4, 1, 0; 1998 SN₁₃₃, 8, 2, 1; 1998 SQ₁₃₃, 13, 3, 2; 1998 SB₁₃₄, 22, 4, 4; 1998 SE₁₃₄, 5, 1, 0; 1998 SN₁₃₄, 5, 1, 0; 1998 SO₁₃₄, 22, 5, 7; 1998 SP₁₃₄, 13, 3, 46; 1998 ST₁₃₄, 5, 1, 0; 1998 SW₁₃₄, 3, 1, 0; 1998 SB₁₃₅, 4, 1, 0; 1998 SJ₁₃₅, 9, 2, 421; 1998 SN₁₃₅, 5, 1, 0; 1998 SB₁₃₆, 3, 1, 0; 1998 SM₁₃₇, 9, 2, 5; 1998 SQ₁₃₇, 4, 1, 0; 1998 SX₁₃₇, 14, 3, 173; 1998 SJ₁₃₈, 4, 1, 0; 1998 SW₁₃₈, 3, 1, 0; 1998 SY₁₃₈, 5, 1, 0; 1998 SE₁₃₉, 5, 1, 0; 1998 SQ₁₃₉, 4, 1, 0; 1998 ST₁₃₉, 4, 1, 0; 1998 SU₁₃₉, 5, 1, 0; 1998 SY₁₃₉, 12, 3, 176; 1998 SZ₁₃₉, 4, 1, 0; 1998 SC₁₄₀, 4, 1, 0; 1998 SK₁₄₀, 4,

1998 UP₁₅, 10, 2, 1; 1998 UQ₁₅, 4, 1, 0; 1998 UX₁₅, 15, 3, 5; 1998 UB₁₆, 5, 1, 0; 1998 UB₁₇, 8, 2, 84; 1998 UG₁₇, 3, 1, 0; 1998 UF₁₈, 14, 3, 7; 1998 UN₁₈, 5, 1, 0; 1998 UO₁₈, 5, 1, 0; 1998 UP₁₈, 7, 2, 2; 1998 UF₁₉, 3, 1, 0; 1998 UR₁₉, 5, 1, 0; 1998 UY₁₉, 9, 2, 169; 1998 UP₂₀, 8, 2, 7; 1998 US₂₀, 20, 4, 6; 1998 UU₂₀, 4, 1, 0; 1998 UM₂₁, 9, 2, 427; 1998 UP₂₁, 3, 1, 0; 1998 UX₂₂, 7, 2, 2; 1998 UY₂₂, 7, 2, 7; 1998 UZ₂₂, 8, 2, 7; 1998 UB₂₃, 35, 6, 12; 1998 UC₂₃, 5, 1, 0; 1998 UE₂₃, 22, 5, 5; 1998 UL₂₃, 15, 3, 2; 1998 UM₂₃, 19, 4, 11; 1998 UO₂₃, 4, 1, 0; 1998 UT₂₃, 9, 2, 7; 1998 UZ₂₃, 4, 1, 0; 1998 UA₂₄, 5, 1, 0; 1998 UE₂₄, 7, 2, 6; 1998 UO₂₄, 4, 1, 0; 1998 UF₂₄, 5, 1, 0; 1998 UM₂₅, 4, 1, 0; 1998 UQ₂₅, 9, 2, 29; 1998 UJ₂₆, 3, 1, 0; 1998 UQ₂₆, 13, 3, 110; 1998 UV₂₆, 8, 2, 65; 1998 UA₂₇, 9, 2, 7; 1998 UV₂₇, 5, 1, 0; 1998 UZ₂₇, 4, 1, 0; 1998 UP₂₈, 3, 1, 0; 1998 US₂₈, 5, 1, 0; 1998 UT₂₈, 3, 1, 0; 1998 UG₂₉, 9, 2, 51; 1998 UH₂₉, 5, 1, 0; 1998 UJ₂₉, 5, 1, 0; 1998 US₂₉, 14, 3, 519; 1998 UT₂₉, 5, 1, 0; 1998 UV₂₉, 10, 2, 417; 1998 UC₃₀, 8, 2, 5; 1998 UC₃₁, 20, 4, 4; 1998 UH₃₁, 15, 3, 10; 1998 UR₃₁, 15, 3, 9; 1998 US₃₁, 3, 1, 0; 1998 UF₃₃, 3, 1, 0; 1998 UD₃₄, 4, 1, 0; 1998 UE₃₄, 4, 1, 0; 1998 UE₃₅, 4, 1, 0; 1998 UG₃₅, 4, 1, 0; 1998 UT₃₅, 5, 1, 0; 1998 UU₃₈, 4, 1, 0; 1998 UP₃₉, 11, 3, 9; 1998 UJ₄₀, 5, 1, 0; 1998 UO₄₀, 13, 2, 4; 1998 UC₄₁, 13, 3, 92; 1998 UA₄₂, 5, 1, 0; 1998 UL₄₂, 5, 1, 0; 1998 UX₄₂, 4, 1, 0; 1998 UE₄₃, 11, 3, 36; 1998 UJ₄₃, 3, 1, 0; 1998 UV₄₇, 4, 1, 0; 1998 VA₁₅, 15, 3, 9; 1998 VE₄, 1, 0; 1998 VK₅, 5, 1, 0; 1998 VW₃, 3, 1, 0; 1998 VV₂, 9, 2, 38; 1998 VC₄, 1, 0; 1998 VA₄, 1, 0; 1998 VE₄, 4, 1, 0; 1998 VW₄, 4, 1, 0; 1998 VA₅, 19, 3, 3; 1998 VC₅, 9, 2, 7; 1998 VF₅, 9, 2, 105; 1998 VM₅, 5, 1, 0; 1998 VN₅, 4, 1, 0; 1998 VP₅, 8, 2, 2; 1998 VS₅, 3, 1, 0; 1998 VU₅, 15, 3, 3; 1998 VZ₅, 13, 3, 15; 1998 VD₆, 4, 1, 0; 1998 VM₆, 4, 1, 0; 1998 VR₆, 5, 1, 0; 1998 VT₆, 9, 2, 1; 1998 VV₆, 10, 2, 1; 1998 VZ₆, 5, 1, 0; 1998 VM₇, 10, 2, 1; 1998 VQ₇, 5, 1, 0; 1998 VJ₈, 5, 1, 0; 1998 VX₈, 5, 1, 0; 1998 VU₉, 4, 1, 0; 1998 VH₁₀, 8, 2, 157; 1998 VC₁₁, 10, 2, 3; 1998 VW₁₁, 10, 2, 112; 1998 VB₁₃, 13, 2, 1; 1998 VZ₁₃, 9, 2, 7; 1998 VA₁₅, 24, 5, 5; 1998 VP₁₅, 9, 2, 5; 1998 VM₁₆, 9, 2, 166; 1998 VP₁₆, 5, 1, 0; 1998 VT₁₆, 4, 1, 0; 1998 VD₁₇, 9, 1, 0; 1998 VY₁₇, 5, 1, 0; 1998 VH₁₈, 3, 1, 0; 1998 VM₁₈, 3, 1, 0; 1998 VX₁₈, 8, 2, 1; 1998 VQ₂₀, 5, 1, 0; 1998 VB₂₁, 5, 1, 0; 1998 VH₂₁, 5, 1, 0; 1998 VO₂₂, 10, 2, 1; 1998 VV₂₂, 10, 2, 130; 1998 VC₂₅, 4, 1, 0; 1998 VM₂₅, 4, 1, 0; 1998 VQ₂₅, 19, 4, 13; 1998 VO₂₆, 7, 2, 1; 1998 VX₂₆, 4, 1, 0; 1998 VR₂₇, 10, 2, 138; 1998 VT₂₇, 9, 2, 31; 1998 VN₂₈, 5, 1, 0; 1998 VS₂₈, 9, 2, 2; 1998 VV₂₈, 5, 1, 0; 1998 VZ₂₈, 5, 1, 0; 1998 VG₂₉, 5, 1, 0; 1998 VN₂₉, 5, 1, 0; 1998 VO₂₉, 14, 3, 11; 1998 VF₂₉, 4, 1, 0; 1998 VY₂₉, 5, 1, 0; 1998 VZ₂₉, 14, 3, 2; 1998 VF₃₀, 5, 1, 0; 1998 VM₃₀, 10, 2, 1; 1998 VT₃₀, 15, 3, 11; 1998 VU₃₀, 13, 3, 38; 1998 VW₃₀, 13, 3, 2; 1998 VZ₃₀, 13, 3, 8; 1998 VG₃₁, 4, 1, 0; 1998 VH₃₁, 15, 3, 2; 1998 VL₃₁, 15, 3, 6; 1998 VQ₃₁, 10, 2, 70; 1998 VN₃₂, 5, 1, 0; 1998 VS₃₂, 20, 4, 10; 1998 VV₃₂, 10, 2, 9; 1998 VY₃₂, 4, 1, 0; 1998 VC₃₃, 4, 1, 0; 1998 VE₃₃, 5, 1, 0; 1998 VX₃₃, 3, 1, 0; 1998 VY₃₃, 9, 2, 1; 1998 VD₃₄, 5, 1, 0; 1998 VV₃₄, 26, 5, 6; 1998 VX₃₄, 4, 1, 0; 1998 VY₃₄, 10, 2, 10; 1998 VH₃₅, 10, 2, 23; 1998 VS₃₅, 10, 2, 2; 1998 VZ₃₆, 8, 2, 178; 1998 VE₃₇, 23, 5, 6; 1998 VL₃₇, 5, 1, 0; 1998 VZ₃₇, 16, 4, 15; 1998 VO₃₈, 5, 1, 0; 1998 VQ₃₈, 4, 1, 0; 1998 VY₃₈, 5, 1, 0; 1998 VC₄₄, 15, 3, 5; 1998 VD₄₄, 13, 3, 9; 1998 VH₄₄, 5, 1, 0; 1998 VX₄₄, 4, 1, 0; 1998 VB₄₅, 5, 1, 0; 1998 VD₄₅, 13, 3, 79; 1998 VE₄₅, 4, 1, 0; 1998 VZ₄₅, 10, 2, 77; 1998 VH₄₆, 4, 1, 0; 1998 VJ₄₆, 5, 1, 0; 1998 WB₇, 7, 2, 50; 1998 WE₅, 9, 2, 6; 1998 WH₁₅, 15, 3, 6; 1998 WK₅, 5, 1, 0; 1998 WP₅, 5, 1, 0; 1998 WQ₁₀, 2, 3; 1998 WR₅, 5, 1, 0; 1998 WK₁, 3, 1, 0; 1998 WL₁₂, 12, 3, 6; 1998 WM₁, 13, 3, 56; 1998 WN₁, 8, 2, 1; 1998 WQ₁, 20, 4, 4; 1998 WU₁, 30, 6, 15; 1998 WG₂, 23, 5, 482; 1998 WE₃, 5, 1, 0; 1998 WG₃, 17, 4, 11; 1998 WJ₃, 15, 3, 6; 1998 WK₃, 8, 2, 2; 1998 WO₃, 5, 1, 0; 1998 WP₃, 39, 6, 33; 1998 WU₃, 4, 1, 0; 1998 WD₄, 8, 2, 1; 1998 WH₄, 19, 4, 13; 1998 WK₄, 5, 1, 0; 1998 WX₄, 5, 1, 0; 1998 WD₅, 19, 4, 13; 1998 WE₅, 5, 1, 0; 1998 WF₅, 5, 1, 0; 1998 WH₅, 20, 4, 15; 1998 WJ₅, 5, 1, 0; 1998 WL₅, 13, 3, 59; 1998 WM₅, 28, 6, 509; 1998 WN₅, 10, 2, 8; 1998 WO₅, 10, 2, 1; 1998 WW₅, 9, 2, 59; 1998 WB₆, 9, 2, 2; 1998 WC₆, 4, 1, 0; 1998 WD₆, 5, 1, 0; 1998 WK₆, 22, 5, 6; 1998 WM₆, 5, 1, 0; 1998 WN₆, 14, 3, 6; 1998 WO₆, 6, 2, 5; 1998 WQ₆, 9, 2, 1; 1998 WW₆, 13, 3, 479; 1998 WY₆, 30, 4, 11; 1998 WE₇, 7, 2, 62; 1998 WN₇, 20, 4, 15; 1998 WS₇, 5, 1, 0; 1998 WA₈, 14, 3, 69; 1998 WC₈, 8, 2, 5; 1998 WD₈, 14, 3, 6; 1998 WH₈, 19, 4, 12; 1998 WJ₈, 9, 2, 166; 1998 WK₈, 9, 2, 7; 1998 WQ₈, 4, 1, 0; 1998 WY₈, 14, 3, 385; 1998 WA₉, 3, 1, 0; 1998 WD₉, 7, 2, 1; 1998 WJ₉, 5, 1, 0; 1998 WK₉, 5, 1, 0; 1998 WL₉, 15, 3, 3; 1998 WN₉, 17, 4, 510; 1998 WO₉, 13, 3, 10; 1998 WR₉, 13, 3, 10; 1998 WS₉, 5, 1, 0; 1998 WS₁₀, 15, 3, 105; 1998 WV₁₀, 19, 4, 4; 1998 WW₁₀, 4, 1, 0; 1998 WX₁₀, 8, 2, 1; 1998 WY₁₀, 9, 2, 7; 1998 WA₁₁, 5, 1, 0; 1998 WN₁₁, 9, 2, 10; 1998 WD₁₂, 20, 4, 6; 1998 WE₁₂, 5, 1, 0; 1998 WK₁₂, 9, 2, 33; 1998 WG₁₃, 9, 2, 7; 1998 WQ₁₃, 9, 2, 1; 1998 WV₁₃, 10, 2, 26; 1998 WY₁₃, 7, 2, 6; 1998 WQ₁₄, 4, 1, 0; 1998 WT₁₄, 13, 3, 79; 1998 WP₁₅, 4, 1, 0; 1998 WX₁₅, 9, 2, 7; 1998 WM₁₆, 7, 2, 1; 1998 WN₁₆, 13, 3, 2; 1998 WZ₁₆, 3, 1, 0; 1998 WA₁₇, 9, 2, 51; 1998 WG₁₇, 5, 1, 0; 1998 WK₁₇, 4, 1, 0; 1998 WT₁₇, 10, 2, 4; 1998 WB₁₈, 5, 1, 0; 1998 WF₁₈, 4, 1, 0; 1998 WH₁₈, 4, 1, 0; 1998 WJ₁₈, 15, 2, 26; 1998 WV₁₈, 5, 1, 0; 1998 WY₁₈, 8, 2, 1; 1998 WD₁₉, 4, 1, 0; 1998 WY₁₉, 9, 2, 10; 1998 WA₂₀, 14, 3, 11; 1998 WC₂₀, 4, 1, 0; 1998 WD₂₀, 20, 4, 30; 1998 WG₂₀, 5, 1, 0; 1998 WK₂₀, 4, 1, 0; 1998 WL₂₀, 3, 1, 0; 1998 WN₂₀, 3, 1, 0; 1998 WT₂₀, 32, 5, 5; 1998 WU₂₀, 13, 3, 9; 1998 WZ₂₀, 4, 1, 0; 1998 WN₂₁, 4, 1, 0; 1998 WZ₂₁, 10, 2, 57; 1998 WK₂₂, 4, 1, 0; 1998 WS₂₂, 4, 1, 0; 1998 WK₂₃, 4, 1, 0; 1998 WF₂₄, 5, 1, 0; 1998 WF₂₈, 4, 1, 0; 1998 WQ₂₈, 5, 1, 0; 1998 WY₃₀, 5, 1, 0; 1998 WZ₃₀, 10, 2, 1; 1998 XC₁₀, 10, 2, 2; 1998 XN₅, 5, 1, 0; 1998 XO₁₀, 2, 1; 1998 XY₄, 4, 1, 0; 1998 XG₁, 4, 1, 0; 1998 XH₁, 8, 2, 6; 1998 XL₁, 4, 1, 0; 1998 XU₁, 5, 1, 0; 1998 XA₉, 9, 2, 2; 1998 XH₃, 4, 1, 0; 1998 XR₃, 14, 3, 3; 1998 XS₃, 8, 2, 2; 1998 XT₃, 9, 2, 7; 1998 XU₃, 8, 2, 1; 1998 XW₃, 7, 2, 5; 1998 XA₄, 34, 6, 31; 1998 XO₄, 4, 1, 0; 1998 XR₄, 14, 3, 450; 1998 XS₄, 9, 2, 88; 1998 XT₄, 4, 1, 0; 1998 XU₄, 4, 1, 0; 1998 XV₄, 10, 2, 2; 1998 XB₅, 25, 4, 6; 1998 XL₅, 5, 1,

0; 1998 XM₅, 9, 2, 7; 1998 XS₅, 17, 4, 13; 1998 XP₆, 5, 1, 0; 1998 XJ₉, 12, 3, 1010; 1998 XP₉, 8, 2, 6; 1998 XR₉, 15, 3, 3; 1998 XW₉, 15, 3, 2; 1998 XJ₁₁, 10, 2, 3; 1998 XO₁₁, 24, 5, 5; 1998 XQ₁₂, 8, 2, 51; 1998 XV₁₂, 5, 1, 0; 1998 XA₁₃, 5, 1, 0; 1998 XS₁₃, 4, 1, 0; 1998 XJ₁₆, 5, 1, 0; 1998 XY₁₆, 27, 5, 6; 1998 XE₁₇, 11, 3, 70; 1998 XR₁₇, 4, 1, 0; 1998 XE₁₈, 9, 2, 5; 1998 XU₁₉, 4, 1, 0; 1998 XR₂₀, 9, 2, 418; 1998 XN₂₁, 13, 3, 12; 1998 XT₂₁, 7, 2, 2; 1998 XY₂₁, 14, 3, 2; 1998 XF₂₃, 30, 5, 4; 1998 XH₂₅, 7, 2, 53; 1998 XJ₂₆, 4, 1, 0; 1998 XP₂₇, 8, 2, 7; 1998 XY₂₇, 13, 3, 39; 1998 XF₂₈, 5, 1, 0; 1998 XJ₂₈, 5, 1, 0; 1998 XK₂₈, 24, 3, 7; 1998 XO₂₈, 13, 3, 5; 1998 XM₂₉, 4, 1, 0; 1998 XM₃₀, 4, 1, 0; 1998 XO₃₀, 4, 1, 0; 1998 XQ₃₀, 4, 1, 0; 1998 XR₃₀, 5, 1, 0; 1998 XS₃₀, 4, 1, 0; 1998 XZ₃₀, 4, 1, 0; 1998 XZ₃₁, 4, 1, 0; 1998 XZ₃₂, 18, 4, 11; 1998 XC₃₃, 10, 2, 53; 1998 XL₃₄, 5, 1, 0; 1998 XM₃₄, 5, 1, 0; 1998 XQ₃₄, 10, 2, 27; 1998 XW₃₅, 9, 2, 130; 1998 XD₃₆, 4, 1, 0; 1998 XG₃₆, 5, 1, 0; 1998 XO₃₇, 4, 1, 0; 1998 XS₃₇, 4, 1, 0; 1998 XZ₃₇, 4, 1, 0; 1998 XG₃₈, 5, 1, 0; 1998 XP₃₉, 9, 2, 31; 1998 XS₃₉, 10, 2, 61; 1998 XU₃₉, 10, 2, 61; 1998 XA₄₀, 18, 4, 509; 1998 XD₄₀, 10, 2, 61; 1998 XO₄₀, 5, 1, 0; 1998 XT₄₀, 5, 1, 0; 1998 XB₄₁, 5, 1, 0; 1998 XV₄₁, 5, 1, 0; 1998 XY₄₁, 17, 4, 3; 1998 XA₄₂, 13, 3, 6; 1998 XE₄₂, 4, 1, 0; 1998 XO₄₂, 5, 1, 0; 1998 XP₄₂, 4, 1, 0; 1998 XW₄₂, 5, 1, 0; 1998 XZ₄₃, 18, 4, 15; 1998 XF₄₄, 6, 2, 2; 1998 XO₄₄, 5, 1, 0; 1998 XP₄₄, 5, 1, 0; 1998 XD₄₅, 5, 1, 0; 1998 XH₄₅, 3, 1, 0; 1998 XM₄₅, 5, 1, 0; 1998 XA₄₆, 5, 1, 0; 1998 XR₄₆, 5, 1, 0; 1998 XX₄₆, 5, 1, 0; 1998 XC₄₇, 13, 3, 28; 1998 XO₄₇, 5, 1, 0; 1998 XT₄₇, 4, 1, 0; 1998 XG₄₈, 14, 3, 11; 1998 XG₄₉, 8, 2, 1; 1998 XU₄₉, 4, 1, 0; 1998 XV₄₉, 25, 6, 13; 1998 XZ₄₉, 18, 4, 15; 1998 XC₅₀, 12, 3, 6; 1998 XD₅₀, 5, 1, 0; 1998 XL₅₀, 14, 3, 12; 1998 XV₅₀, 4, 1, 0; 1998 XB₅₁, 5, 1, 0; 1998 XC₅₁, 5, 1, 0; 1998 XR₅₁, 8, 2, 11; 1998 XT₅₁, 4, 1, 0; 1998 XE₅₂, 5, 1, 0; 1998 XW₅₂, 4, 1, 0; 1998 XX₅₂, 15, 4, 13; 1998 XA₅₄, 5, 1, 0; 1998 XK₅₄, 10, 2, 20; 1998 XH₅₅, 4, 1, 0; 1998 XY₅₅, 5, 1, 0; 1998 XA₅₆, 5, 1, 0; 1998 XB₅₆, 4, 1, 0; 1998 XE₅₇, 5, 1, 0; 1998 XN₅₇, 9, 2, 1; 1998 XL₅₈, 4, 1, 0; 1998 XR₅₈, 4, 1, 0; 1998 XY₅₈, 4, 1, 0; 1998 XD₅₉, 4, 1, 0; 1998 XE₅₉, 15, 3, 56; 1998 XJ₅₉, 5, 1, 0; 1998 XO₅₉, 9, 2, 29; 1998 XG₆₁, 5, 1, 0; 1998 XT₆₂, 4, 1, 0; 1998 XW₆₂, 20, 4, 12; 1998 XG₆₃, 5, 1, 0; 1998 XQ₆₃, 5, 1, 0; 1998 XK₆₅, 5, 1, 0; 1998 XR₆₅, 5, 1, 0; 1998 XH₆₆, 8, 2, 71; 1998 XL₆₆, 5, 1, 0; 1998 XV₆₆, 5, 1, 0; 1998 XK₆₉, 4, 1, 0; 1998 W₆₉, 5, 1, 0; 1998 XX₇₁, 4, 1, 0; 1998 XE₇₃, 4, 1, 0; 1998 XS₇₃, 10, 2, 4; 1998 XN₇₄, 8, 2, 2; 1998 XR₇₄, 5, 1, 0; 1998 XT₇₄, 10, 1, 0; 1998 XY₇₄, 5, 1, 0; 1998 XY₇₅, 5, 1, 0; 1998 XC₇₆, 5, 1, 0; 1998 XS₇₆, 10, 2, 29; 1998 XF₇₇, 9, 2, 15; 1998 XM₇₇, 13, 3, 5; 1998 XO₇₇, 14, 3, 10; 1998 XQ₇₇, 35, 7, 588; 1998 XU₇₇, 4, 1, 0; 1998 XB₇₈, 10, 2, 55; 1998 XC₇₉, 4, 1, 0; 1998 XL₇₉, 5, 1, 0; 1998 XE₈₀, 8, 2, 1; 1998 XZ₈₁, 20, 4, 6; 1998 XW₈₂, 13, 3, 61; 1998 XY₈₂, 10, 2, 24; 1998 XF₈₃, 13, 2, 3; 1998 XQ₈₃, 13, 3, 6; 1998 XQ₈₇, 20, 4, 3; 1998 XU₈₈, 4, 1, 0; 1998 XO₈₉, 4, 1, 0; 1998 XA₉₀, 7, 2, 2; 1998 XR₉₀, 4, 1, 0; 1998 XT₉₁, 5, 1, 0; 1998 XC₉₂, 3, 1, 0; 1998 XG₉₂, 4, 1, 0; 1998 XT₉₂, 5, 1, 0; 1998 XF₉₃, 5, 1, 0; 1998 XC₉₄, 10, 2, 1; 1998 XH₉₄, 5, 1, 0; 1998 XP₉₅, 5, 1, 0; 1998 XG₉₅, 34, 7, 32; 1998 XX₉₅, 5, 1, 0; 1998 XC₉₆, 29, 5, 13; 1998 YB₉, 9, 2, 446; 1998 YV₁₀, 10, 2, 411; 1998 YC₁, 17, 4, 4; 1998 YH₁, 15, 3, 10; 1998 YK₁, 19, 4, 12; 1998 YL₁, 5, 1, 0; 1998 YR₁, 6, 2, 6; 1998 YD₂, 4, 1, 0; 1998 YY₂, 3, 1, 0; 1998 YA₃, 17, 4, 6; 1998 YD₃, 14, 3, 2; 1998 YL₃, 13, 3, 889; 1998 YN₃, 15, 3, 10; 1998 YO₃, 14, 3, 10; 1998 YT₃, 14, 3, 2; 1998 YX₃, 16, 4, 27; 1998 YD₄, 23, 5, 58; 1998 YH₄, 13, 3, 10; 1998 YJ₄, 5, 1, 0; 1998 YN₄, 4, 1, 0; 1998 YR₄, 5, 1, 0; 1998 YE₅, 5, 1, 0; 1998 YN₅, 10, 2, 5; 1998 YP₅, 14, 3, 2; 1998 YS₅, 20, 4, 15; 1998 YT₅, 6, 2, 1; 1998 YN₆, 4, 1, 0; 1998 YZ₆, 3, 1, 0; 1998 YA₇, 8, 2, 32; 1998 YB₇, 5, 1, 0; 1998 YM₇, 5, 1, 0; 1998 YL₈, 20, 4, 15; 1998 YS₈, 5, 1, 0; 1998 YF₉, 4, 1, 0; 1998 Y

2000 APR. 18

M.P.C. 39761

4, 1, 0; 1999 CG₁₇, 10, 2, 9; 1999 CU₁₇, 20, 4, 3; 1999 CD₁₈, 5, 1, 0; 1999 CJ₁₈, 9, 2, 109; 1999 CU₁₈, 5, 1, 0; 1999 CW₁₈, 5, 1, 0; 1999 CS₁₉, 4, 1, 0; 1999 CX₁₉, 5, 1, 0; 1999 CY₁₉, 5, 1, 0; 1999 CR₂₀, 4, 1, 0; 1999 CY₂₁, 4, 1, 0; 1999 CD₂₂, 4, 1, 0; 1999 CU₂₅, 14, 3, 2; 1999 CG₂₇, 5, 1, 0; 1999 CJ₂₇, 9, 2, 1; 1999 CQ₂₇, 13, 3, 6; 1999 CD₂₈, 8, 2, 1; 1999 CK₂₈, 4, 1, 0; 1999 CT₃₀, 3, 1, 0; 1999 CF₃₅, 13, 3, 9; 1999 CJ₃₅, 5, 1, 0; 1999 CR₃₅, 4, 1, 0; 1999 CH₃₈, 8, 2, 9; 1999 CU₄₆, 6, 2, 2; 1999 CO₅₄, 10, 2, 5; 1999 CP₆₁, 12, 3, 6; 1999 CZ₆₁, 15, 3, 6; 1999 CG₆₂, 15, 3, 9; 1999 CP₆₂, 5, 1, 0; 1999 CC₆₃, 4, 1, 0; 1999 CD₆₃, 8, 2, 1; 1999 CB₆₇, 3, 1, 0; 1999 CU₇₀, 10, 2, 5; 1999 CR₇₄, 3, 1, 0; 1999 CB₇₇, 5, 1, 0; 1999 CJ₇₈, 15, 3, 2; 1999 CH₈₂, 5, 1, 0; 1999 CK₈₂, 3, 1, 0; 1999 CQ₈₂, 14, 3, 446; 1999 CS₈₂, 4, 1, 0; 1999 CY₈₂, 4, 1, 0; 1999 CK₈₃, 4, 1, 0; 1999 CD₈₄, 10, 2, 24; 1999 CD₈₅, 4, 1, 0; 1999 CO₉₀, 5, 1, 0; 1999 CA₉₇, 4, 1, 0; 1999 CX₁₂₀, 5, 1, 0; 1999 CA₁₂₁, 10, 2, 106; 1999 CC₁₂₁, 5, 1, 0; 1999 CB₁₂₂, 4, 1, 0; 1999 CM₁₃₆, 9, 2, 8; 1999 CV₁₃₆, 4, 1, 0; 1999 CX₁₅₁, 8, 2, 10; 1999 DC₂₄, 5, 5; 1999 DO₂, 4, 1, 0; 1999 DK₅, 4, 1, 0; 1999 EQ₄, 5, 1, 0; 1999 GZ₁₆, 10, 2, 493; 1999 JP₆, 14, 3, 115; 1999 JV₆, 5, 1, 0; 1999 JX₇₅, 5, 1, 0; 1999 JN₈₉, 5, 1, 0; 1999 JS₁₀₂, 5, 1, 0; 1999 JD₁₀₇, 5, 1, 0; 1999 JJ₁₁₇, 5, 1, 0; 1999 LR₂₂, 4, 1, 0; 1999 LG₂₃, 5, 1, 0; 1999 LE₃₁, 5, 1, 0; 1999 NU₅, 1, 0; 1999 NN₂, 5, 1, 0; 1999 NF₄, 3, 1, 0; 1999 NO₇, 6, 2, 1; 1999 NA₈, 4, 1, 0; 1999 NP₈, 8, 2, 1; 1999 NQ₁₁, 5, 1, 0; 1999 NX₁₄, 14, 3, 538; 1999 NO₁₈, 14, 3, 9; 1999 NW₃₇, 13, 3, 9; 1999 NB₃₈, 8, 2, 1; 1999 NG₃₈, 5, 1, 0; 1999 NA₃₉, 4, 1, 0; 1999 NP₃₉, 5, 1, 0; 1999 NM₄₀, 5, 1, 0; 1999 NK₄₁, 9, 2, 1; 1999 NC₄₃, 9, 2, 2; 1999 NC₄₉, 4, 1, 0; 1999 NY₄₈, 8, 2, 1; 1999 NV₅₄, 5, 1, 0; 1999 NC₆₀, 4, 1, 0; 1999 OZ₁, 10, 2, 1; 1999 OB₂, 5, 1, 0; 1999 OD₂, 5, 1, 0; 1999 OM₂, 14, 3, 2; 1999 OQ₂, 5, 1, 0; 1999 OR₂, 9, 2, 1; 1999 OS₂, 5, 1, 0; 1999 OB₃, 10, 2, 1; 1999 OC₃, 4, 1, 0; 1999 OG₃, 4, 1, 0; 1999 OH₃, 29, 2, 1; 1999 OO₃, 10, 1, 0; 1999 PB₃, 3, 1, 0; 1999 PB₁, 5, 1, 0; 1999 PP₁, 7, 2, 7; 1999 PU₁, 8, 2, 7; 1999 PV₃, 4, 1, 0; 1999 PZ₃, 3, 1, 0; 1999 PD₄, 5, 1, 0; 1999 PE₄, 4, 1, 0; 1999 PH₄, 5, 1, 0; 1999 PO₄, 5, 1, 0; 1999 PP₄, 8, 2, 7; 1999 PR₄, 5, 1, 0; 1999 PS₄, 5, 1, 0; 1999 PB₅, 15, 3, 10; 1999 PS₅, 10, 2, 1; 1999 PB₈, 4, 1, 0; 1999 QA₇, 2, 7; 1999 QH₅, 1, 0; 1999 QQ₁, 20, 4, 14; 1999 QT₁, 5, 1, 0; 1999 QU₁, 5, 1, 0; 1999 QB₂, 5, 1, 0; 1999 QH₂, 4, 1, 0; 1999 QJ₂, 5, 1, 0; 1999 QP₂, 5, 1, 0; 1999 RE₅, 1, 0; 1999 RN₂₀, 3, 7; 1999 RD₁, 7, 2, 1; 1999 RN₁, 11, 2, 4; 1999 RR₁, 12, 3, 6; 1999 RS₁, 10, 2, 6; 1999 RU₁, 5, 1, 0; 1999 RX₁, 9, 2, 6; 1999 RC₂, 5, 1, 0; 1999 RE₂, 15, 3, 9; 1999 RQ₂, 3, 1, 0; 1999 RR₂, 4, 1, 0; 1999 RY₂, 5, 1, 0; 1999 RZ₂, 5, 1, 0; 1999 RA₃, 15, 3, 28; 1999 RB₃, 9, 2, 6; 1999 RC₃, 18, 4, 28; 1999 RD₃, 20, 3, 7; 1999 RE₃, 5, 1, 0; 1999 RF₃, 20, 4, 28; 1999 RH₃, 10, 2, 1; 1999 RJ₃, 9, 2, 6; 1999 RK₃, 13, 3, 28; 1999 RL₃, 10, 2, 165; 1999 RM₃, 5, 1, 0; 1999 RN₃, 8, 2, 1; 1999 RP₃, 14, 3, 3; 1999 RY₃, 4, 1, 0; 1999 RD₄, 4, 1, 0; 1999 RJ₄, 4, 1, 0; 1999 RS₆, 13, 3, 8; 1999 RZ₆, 10, 2, 6; 1999 RK₇, 9, 2, 6; 1999 RX₇, 8, 2, 6; 1999 RA₈, 4, 1, 0; 1999 RK₈, 8, 2, 7; 1999 RE₉, 3, 1, 0; 1999 RA₁₀, 15, 3, 8; 1999 RG₁₀, 9, 2, 1; 1999 RS₁₀, 5, 1, 0; 1999 RY₁₀, 5, 1, 0; 1999 RO₁₀, 10, 2, 1; 1999 RO₁₁, 10, 2, 1; 1999 RR₁₁, 10, 2, 7; 1999 RV₁₁, 5, 1, 0; 1999 RB₁₂, 13, 4, 925; 1999 RK₁₂, 4, 1, 0; 1999 RL₁₂, 7, 2, 7; 1999 RZ₁₂, 5, 1, 0; 1999 RL₁₃, 3, 1, 0; 1999 RB₁₄, 8, 2, 7; 1999 RF₁₄, 14, 3, 7; 1999 RO₁₄, 9, 2, 7; 1999 RQ₁₄, 5, 1, 0; 1999 RU₁₄, 8, 2, 7; 1999 RK₁₅, 10, 2, 1; 1999 RS₁₅, 9, 2, 1; 1999 RU₁₅, 3, 1, 0; 1999 RD₁₆, 10, 2, 1; 1999 RE₁₆, 10, 2, 2; 1999 RK₁₆, 3, 1, 0; 1999 RT₁₆, 7, 2, 1; 1999 RV₁₆, 3, 1, 0; 1999 RW₁₆, 5, 1, 0; 1999 RE₁₇, 10, 2, 2; 1999 RJ₁₇, 8, 2, 7; 1999 RO₁₇, 4, 1, 0; 1999 RV₁₇, 10, 2, 2; 1999 RX₁₇, 5, 1, 0; 1999 RY₁₇, 8, 2, 2; 1999 RC₁₈, 3, 1, 0; 1999 RD₁₈, 9, 2, 7; 1999 RE₁₈, 5, 1, 0; 1999 RN₁₈, 5, 1, 0; 1999 RP₁₈, 14, 2, 2; 1999 RR₁₈, 5, 1, 0; 1999 RT₁₈, 10, 2, 6; 1999 RU₁₈, 3, 1, 0; 1999 RX₁₈, 3, 1, 0; 1999 RY₁₈, 5, 1, 0; 1999 RP₁₉, 3, 1, 0; 1999 RS₁₉, 8, 2, 7; 1999 RT₁₉, 15, 3, 4; 1999 RY₁₉, 10, 2, 6; 1999 RC₂₀, 15, 3, 6; 1999 RD₂₀, 5, 1, 0; 1999 RO₂₀, 9, 2, 8; 1999 RP₂₀, 19, 3, 30; 1999 RU₂₀, 15, 3, 8; 1999 RW₂₀, 5, 1, 0; 1999 RZ₂₀, 9, 2, 12; 1999 RH₂₁, 5, 1, 0; 1999 RP₂₁, 7, 2, 7; 1999 RR₂₁, 3, 1, 0; 1999 RT₂₁, 8, 2, 7; 1999 RU₂₁, 5, 1, 0; 1999 RW₂₁, 5, 1, 0; 1999 RY₂₁, 10, 2, 8; 1999 RA₂₂, 5, 1, 0; 1999 RB₂₂, 10, 2, 8; 1999 RD₂₂, 4, 1, 0; 1999 RK₂₂, 5, 1, 0; 1999 RL₂₂, 9, 2, 6; 1999 RS₂₂, 4, 1, 0; 1999 RT₂₂, 10, 2, 6; 1999 RB₂₃, 10, 1, 0; 1999 RC₂₃, 5, 1, 0; 1999 RH₂₃, 5, 1, 0; 1999 RN₂₃, 5, 1, 0; 1999 RO₂₃, 5, 1, 0; 1999 RP₂₃, 10, 2, 8; 1999 RW₂₃, 5, 1, 0; 1999 RW₂₃, 5, 1, 0; 1999 RX₂₃, 9, 2, 7; 1999 RY₂₃, 3, 1, 0; 1999 RE₂₄, 9, 2, 7; 1999 RR₂₄, 5, 1, 0; 1999 RS₂₄, 17, 4, 8; 1999 RZ₂₄, 28, 3, 5; 1999 RC₂₅, 23, 5, 132; 1999 RE₂₅, 24, 4, 8; 1999 RG₂₅, 10, 2, 25; 1999 RK₂₅, 14, 3, 12; 1999 RL₂₅, 10, 2, 12; 1999 RN₂₅, 15, 3, 7; 1999 RU₂₅, 23, 5, 10; 1999 RV₂₅, 22, 5, 30; 1999 RX₂₅, 10, 2, 6; 1999 RE₂₆, 14, 3, 22; 1999 RG₂₆, 15, 3, 28; 1999 RK₂₆, 5, 1, 0; 1999 RN₂₆, 10, 2, 22; 1999 RP₂₆, 9, 2, 6; 1999 RQ₂₆, 5, 1, 0; 1999 RX₂₆, 4, 1, 0; 1999 RF₂₇, 5, 1, 0; 1999 RL₂₇, 20, 4, 10; 1999 RP₂₇, 5, 1, 0; 1999 RV₂₇, 14, 3, 28; 1999 RT₂₇, 5, 1, 0; 1999 RW₂₇, 15, 3, 167; 1999 RX₂₇, 4, 1, 0; 1999 RD₂₈, 10, 2, 1; 1999 RE₂₈, 25, 4, 7; 1999 RS₂₈, 17, 4, 6; 1999 RT₂₈, 9, 2, 4; 1999 RG₃₀, 5, 1, 0; 1999 RL₃₀, 5, 1, 0; 1999 RJ₃₁, 8, 2, 7; 1999 RK₃₁, 10, 2, 10; 1999 RM₃₁, 19, 4, 10; 1999 RS₃₁, 5, 1, 0; 1999 RT₃₁, 3, 1, 0; 1999 RU₃₁, 15, 3, 10; 1999 RV₃₁, 8, 2, 7; 1999 RF₃₂, 10, 2, 1; 1999 RH₃₂, 8, 2, 7; 1999 RL₃₂, 9, 2, 6; 1999 RP₃₂, 5, 1, 0; 1999 RQ₃₂, 19, 4, 10; 1999 RW₃₂, 10, 2, 1; 1999 RX₃₂, 4, 1, 0; 1999 RA₃₃, 14, 3, 28; 1999 RC₃₃, 9, 2, 1; 1999 RG₃₃, 10, 2, 1; 1999 RL₃₃, 4, 1, 0; 1999 RP₃₃, 8, 2, 7; 1999 RW₃₃, 5, 1, 0; 1999 RC₃₄, 5, 1, 0; 1999 RK₃₄, 10, 2, 6; 1999 RL₃₄, 15, 3, 28; 1999 RM₃₄, 17, 4, 10; 1999 RO₃₄, 5, 1, 0; 1999 RQ₃₄, 5, 1, 0; 1999 RR₃₄, 5, 1, 0; 1999 RS₃₄, 18, 4, 10; 1999 RT₃₄, 5, 1, 0; 1999 RU₃₄, 19, 4, 28; 1999 RV₃₄, 13, 3, 10; 1999 RX₃₄, 20, 3, 11; 1999 RZ₃₄, 5, 1, 0; 1999 RJ₃₅, 5, 1, 0; 1999 RM₃₅, 10, 2, 28; 1999 RP₃₅, 10, 2, 10; 1999 RS₃₅, 10, 2, 28; 1999 RT₃₅, 9, 2, 6; 1999 RW₃₅, 15, 3, 10; 1999 RC₃₆, 10, 2, 10; 1999 RH₃₆, 10, 2, 12; 1999 RM₃₆, 5, 1, 0; 1999 RN₃₆, 14, 3, 11; 1999 RP₃₆, 3, 1, 0; 1999 RR₃₆, 18, 4, 28; 1999 RS₃₆, 14, 3, 28; 1999 RT₃₆, 20, 4, 10; 1999 RZ₃₆, 6, 2, 5; 1999 RA₃₇,

5, 1, 0; 1999 RB₃₇, 5, 1, 0; 1999 RC₃₇, 5, 1, 0; 1999 RE₃₇, 8, 2, 7; 1999 RT₃₇, 13, 3, 6; 1999 RV₃₇, 10, 2, 6; 1999 RW₃₇, 20, 4, 28; 1999 RX₃₇, 13, 3, 28; 1999 RY₃₇, 14, 3, 10; 1999 RZ₃₇, 10, 2, 6; 1999 RA₃₈, 15, 3, 28; 1999 RC₃₈, 10, 2, 6; 1999 RD₃₈, 10, 2, 6; 1999 RF₃₈, 10, 2, 5; 1999 RG₃₈, 14, 3, 10; 1999 RH₃₈, 14, 3, 10; 1999 RM₃₈, 15, 3, 10; 1999 RN₃₈, 10, 2, 6; 1999 RO₃₈, 10, 2, 6; 1999 RP₃₈, 10, 2, 10; 1999 RT₃₈, 9, 2, 6; 1999 RG₃₉, 10, 2, 1; 1999 RL₃₉, 12, 3, 29; 1999 RN₃₉, 10, 2, 28; 1999 RP₃₉, 6, 1, 0; 1999 RT₃₉, 4, 1, 0; 1999 RW₃₉, 15, 3, 14; 1999 RY₃₉, 8, 2, 5; 1999 RB₄₀, 15, 3, 11; 1999 RC₄₀, 20, 3, 11; 1999 RK₄₀, 8, 2, 7; 1999 RV₄₀, 21, 5, 30; 1999 RV₄₁, 19, 4, 28; 1999 RX₄₁, 10, 2, 10; 1999 RF₄₂, 13, 3, 10; 1999 RJ₄₂, 10, 2, 10; 1999 RL₄₂, 10, 2, 10; 1999 RM₄₂, 5, 1, 0; 1999 RN₄₂, 9, 2, 28; 1999 RO₄₂, 10, 2, 28; 1999 RP₄₂, 5, 1, 0; 1999 RQ₄₂, 5, 1, 0; 1999 RR₄₂, 10, 2, 28; 1999 RX₄₂, 5, 1, 0; 1999 RD₄₃, 5, 1, 0; 1999 RH₄₃, 7, 2, 7; 1999 RL₄₃, 7, 2, 9; 1999 RM₄₃, 13, 3, 10; 1999 RQ₄₃, 15, 3, 7; 1999 RS₄₃, 10, 2, 5; 1999 RU₄₃, 10, 2, 10; 1999 RW₄₃, 10, 2, 28; 1999 RZ₄₃, 9, 2, 28; 1999 RA₄₄, 14, 3, 11; 1999 RB₄₄, 10, 2, 10; 1999 RC₄₄, 15, 3, 12; 1999 RD₄₄, 25, 4, 10; 1999 RE₄₄, 20, 4, 10; 1999 RH₄₄, 10, 2, 1; 1999 RL₄₄, 5, 1, 0; 1999 RM₄₄, 5, 1, 0; 1999 RN₄₄, 10, 2, 6; 1999 RR₄₄, 10, 2, 6; 1999 RS₄₄, 15, 3, 10; 1999 RU₄₄, 10, 2, 1; 1999 RY₄₄, 5, 1, 0; 1999 RB₄₅, 24, 5, 12; 1999 RQ₄₅, 5, 1, 0; 1999 RU₄₅, 15, 2, 6; 1999 RW₄₅, 8, 2, 7; 1999 RZ₄₅, 12, 3, 3; 1999 RE₄₆, 5, 1, 0; 1999 RV₄₆, 10, 2, 79; 1999 RD₄₇, 5, 1, 0; 1999 RN₄₇, 14, 3, 3; 1999 RN₄₈, 9, 2, 1; 1999 RR₄₈, 3, 1, 0; 1999 RC₄₉, 4, 1, 0; 1999 RD₄₉, 5, 1, 0; 1999 RG₄₉, 9, 2, 565; 1999 RM₄₉, 4, 1, 0; 1999 RP₄₉, 5, 1, 0; 1999 RS₄₉, 10, 2, 1; 1999 RU₄₉, 5, 1, 0; 1999 RF₅₀, 10, 2, 1; 1999 RJ₅₀, 7, 2, 1; 1999 RL₅₀, 5, 1, 0; 1999 RN₅₀, 9, 2, 1; 1999 RA₅₁, 5, 1, 0; 1999 RO₅₁, 5, 1, 0; 1999 RX₅₂, 10, 2, 1; 1999 RH₅₃, 10, 2, 1; 1999 RK₅₃, 9, 2, 1; 1999 RM₅₄, 5, 1, 0; 1999 RT₅₄, 7, 2, 1; 1999 RG₅₅, 5, 1, 0; 1999 RY₅₅, 5, 1, 0; 1999 RV₅₆, 5, 1, 0; 1999 RQ₅₇, 10, 2, 1; 1999 RS₈₁, 5, 1, 0; 1999 RU₅₉, 5, 1, 0; 1999 RF₆₄, 4, 1, 0; 1999 RA₇₁, 4, 1, 0; 1999 RG₇₁, 9, 2, 7; 1999 RJ₇₁, 4, 1, 0; 1999 RN₇₁, 5, 1, 0; 1999 RR₇₁, 8, 2, 7; 1999 RV₇₂, 10, 2, 1; 1999 RO₇₂, 10, 2, 1; 1999 RA₇₃, 8, 2, 7; 1999 RM₇₃, 5, 1, 0; 1999 RE₇₄, 5, 1, 0; 1999 RV₇₄, 5, 1, 0; 1999 RQ₇₅, 10, 2, 22; 1999 RV₇₅, 10, 2, 2; 1999 RL₇₆, 4, 1, 0; 1999 RM₇₆, 3, 1, 0; 1999 RA₇₇, 5, 1, 0; 1999 RF₈₀, 5, 1, 0; 1999 RE₈₁, 8, 2, 8; 1999 RF₈₁, 8, 2, 7; 1999 RN₈₁, 4, 1, 0; 1999 RO₈₁, 5, 1, 0; 1999 RS₈₁, 8, 2, 28; 1999 RT₈₁, 9, 2, 28; 1999 RU₈₁, 5, 1, 0; 1999 RV₈₁, 10, 2, 2; 1999 RX₈₁, 10, 2, 2; 1999 RE₈₂, 15, 3, 8; 1999 RJ₈₂, 6, 2, 4; 1999 RP₈₂, 5, 1, 0; 1999 RR₈₂, 5, 1, 0; 1999 RA₈₃, 5, 1, 0; 1999 RH₈₃, 5, 1, 0; 1999 RJ₈₃, 8, 2, 7; 1999 RT₈₃, 4, 1, 0; 1999 RB₈₄, 5, 1, 0; 1999 RC₈₄, 7, 2, 7; 1999 RF₈₄, 10, 2, 8; 1999 RP₈₄, 24, 4, 6; 1999 RS₈₄, 14, 3, 8; 1999 RC₈₅, 5, 1, 0; 1999 RD₈₅, 4, 1, 0; 1999 RM₈₅, 8, 2, 7; 1999 RV₈₅, 9, 2, 8; 1999 RA₈₆, 8, 2, 7; 1999 RL₈₆, 3, 1, 0; 1999 RN₈₆, 12, 3, 537; 1999 RS₈₆, 5, 1, 0; 1999 RT₈₆, 7, 2, 7; 1999 RU₈₆, 8, 2, 7; 1999 RV₈₆, 13, 3, 8; 1999 RW₈₆, 8, 2, 7; 1999 RA₈₇, 9, 2, 8; 1999 RD₈₇, 5, 1, 0; 1999 RF₈₇, 27, 5, 28; 1999 RJ₈₇, 5, 1, 0; 1999 RL₈₇, 5, 1, 0; 1999 RM₈₇, 5, 1, 0; 1999 RR₈₇, 4, 1, 0; 1999 RS₈₇, 4, 1, 0; 1999 RY₈₇, 18, 3, 7; 1999 RF₈₈, 15, 3, 8; 1999 RP₈₈, 10, 2, 6; 1999 RR₈₈, 15, 3, 6; 1999 RT₈₈, 15, 3, 8; 1999 RW₈₈, 10, 2, 6; 1999 RX₈₈, 10, 2, 6; 1999 RZ₈₈, 15, 3, 6; 1999 RB₈₉, 5, 1, 0; 1999 RC₈₉, 10, 2, 8; 1999 RE₈₉, 14, 3, 8; 1999 RG₈₉, 4, 1, 0; 1999 RJ₈₉, 10, 2, 6; 1999 RK₈₉, 4, 1, 0; 1999 RP₈₉, 10, 2, 8; 1999 RS₈₉, 8, 2, 1; 1999 RY₈₉, 9, 2, 7; 1999 RG₉₀, 8, 2, 8; 1999 RQ₉₀, 3, 1, 0; 1999 RB₉₀, 15, 2, 8; 1999 RV₉₀, 10, 2, 8; 1999 RY₉₀, 15, 3, 30; 1999 RE₉₁, 3, 1, 0; 1999 RF₉₁, 10, 1, 0; 1999 RN₉₁, 5, 1, 0; 1999 RO₉₁, 10, 2, 8; 1999 RP₉₁, 10, 2, 8; 1999 RV₉₁, 10, 2, 8; 1999 RT₉₁, 9, 2, 6; 1999 RV₉₁, 19, 3, 8; 1999 RZ₉₁, 20, 4, 9; 1999 RC₉₂, 19, 3, 6; 1999 RF₉₂, 5, 1, 0; 1999 RH₉₂, 23, 5, 28; 1999 RK₉₂, 15, 3, 8; 1999 RL₉₂, 10, 2, 6; 1999 RM₉₂, 12, 3, 8; 1999 RO_{92</}

1999 RK₁₂₀, 9, 2, 1; 1999 RP₁₂₀, 5, 1, 0; 1999 RQ₁₂₁, 5, 1, 0; 1999 RC₁₂₃, 5, 1, 0; 1999 RK₁₂₃, 5, 1, 0; 1999 RN₁₂₃, 5, 1, 0; 1999 RQ₁₂₃, 15, 2, 18; 1999 RU₁₂₃, 5, 1, 0; 1999 RA₁₂₄, 10, 2, 3; 1999 RD₁₂₄, 5, 1, 0; 1999 RE₁₂₄, 15, 3, 6; 1999 RG₁₂₄, 5, 1, 0; 1999 RL₁₂₄, 5, 1, 0; 1999 RO₁₂₄, 4, 1, 0; 1999 RJ₁₂₄, 9, 2, 2; 1999 RJ₁₂₅, 14, 3, 31; 1999 RL₁₂₅, 4, 1, 0; 1999 RY₁₂₅, 3, 1, 0; 1999 RZ₁₂₅, 3, 1, 0; 1999 RG₁₂₆, 12, 3, 8; 1999 RX₁₂₇, 10, 2, 1; 1999 RX₁₂₈, 5, 1, 0; 1999 RB₁₂₉, 5, 1, 0; 1999 RK₁₂₉, 10, 2, 1; 1999 RM₁₂₉, 9, 2, 1; 1999 RN₁₂₉, 5, 1, 0; 1999 RS₁₂₉, 10, 2, 1; 1999 RH₁₃₀, 10, 2, 1; 1999 RL₁₃₀, 4, 1, 0; 1999 RM₁₃₀, 8, 2, 2; 1999 RT₁₃₀, 10, 2, 1; 1999 RX₁₃₁, 4, 1, 0; 1999 RA₁₃₂, 10, 2, 7; 1999 RB₁₃₂, 15, 3, 7; 1999 RP₁₃₂, 4, 1, 0; 1999 RB₁₃₃, 4, 1, 0; 1999 RL₁₃₃, 5, 1, 0; 1999 RQ₁₃₃, 4, 1, 0; 1999 RU₁₃₃, 4, 1, 0; 1999 RW₁₃₃, 5, 1, 0; 1999 RB₁₃₄, 4, 1, 0; 1999 RD₁₃₅, 5, 1, 0; 1999 RF₁₃₅, 5, 1, 0; 1999 RM₁₃₅, 10, 2, 1; 1999 RO₁₃₅, 10, 2, 1; 1999 RW₁₃₅, 10, 2, 1; 1999 RK₁₃₆, 5, 1, 0; 1999 RP₁₃₆, 9, 2, 7; 1999 RQ₁₃₆, 5, 1, 0; 1999 RZ₁₃₆, 5, 1, 0; 1999 RA₁₃₇, 10, 2, 1; 1999 RG₁₃₈, 5, 1, 0; 1999 RN₁₃₈, 5, 1, 0; 1999 RX₁₃₈, 10, 2, 57; 1999 RZ₁₃₈, 5, 1, 0; 1999 RL₁₃₉, 10, 2, 1; 1999 RY₁₄₁, 5, 1, 0; 1999 RE₁₄₂, 5, 1, 0; 1999 RJ₁₄₂, 5, 1, 0; 1999 RL₁₄₂, 8, 2, 7; 1999 RV₁₄₂, 9, 2, 8; 1999 RW₁₄₂, 8, 2, 6; 1999 RL₁₄₃, 5, 1, 0; 1999 RM₁₄₃, 10, 2, 6; 1999 RR₁₄₃, 4, 1, 0; 1999 RS₁₄₃, 5, 1, 0; 1999 RT₁₄₃, 5, 1, 0; 1999 RV₁₄₃, 5, 1, 0; 1999 RW₁₄₃, 10, 2, 8; 1999 RB₁₄₄, 3, 1, 0; 1999 RH₁₄₄, 4, 1, 0; 1999 RO₁₄₄, 5, 1, 0; 1999 RA₁₄₅, 13, 3, 7; 1999 RB₁₄₅, 5, 1, 0; 1999 RD₁₄₅, 4, 1, 0; 1999 RG₁₄₅, 8, 2, 7; 1999 RH₁₄₅, 10, 2, 7; 1999 RL₁₄₅, 3, 1, 0; 1999 RF₁₄₆, 4, 1, 0; 1999 RM₁₄₆, 13, 3, 7; 1999 RW₁₄₆, 4, 1, 0; 1999 RY₁₄₆, 4, 1, 0; 1999 RG₁₄₇, 5, 1, 0; 1999 RY₁₄₇, 10, 2, 29; 1999 RA₁₄₈, 5, 1, 0; 1999 RF₁₄₈, 3, 1, 0; 1999 RH₁₄₈, 3, 1, 0; 1999 RM₁₄₈, 4, 1, 0; 1999 RA₁₄₉, 10, 2, 1; 1999 RW₁₄₉, 4, 1, 0; 1999 RX₁₄₉, 9, 2, 1; 1999 RY₁₄₉, 8, 2, 7; 1999 RB₁₅₀, 4, 1, 0; 1999 RC₁₅₀, 4, 1, 0; 1999 RE₁₅₀, 9, 2, 7; 1999 RK₁₅₀, 5, 1, 0; 1999 RM₁₅₀, 4, 1, 0; 1999 RP₁₅₀, 9, 2, 7; 1999 RN₁₅₁, 9, 2, 1; 1999 RX₁₅₁, 3, 1, 0; 1999 RB₁₅₂, 4, 1, 0; 1999 RF₁₅₂, 9, 2, 7; 1999 RM₁₅₂, 4, 1, 0; 1999 RO₁₅₂, 9, 2, 1; 1999 RP₁₅₂, 10, 2, 7; 1999 RV₁₅₂, 14, 3, 7; 1999 RY₁₅₂, 5, 1, 0; 1999 RE₁₅₄, 10, 2, 29; 1999 RS₁₅₄, 3, 1, 0; 1999 RE₁₅₅, 5, 1, 0; 1999 RL₁₅₅, 9, 2, 8; 1999 RO₁₅₅, 9, 2, 28; 1999 RW₁₅₅, 9, 2, 2; 1999 RZ₁₅₅, 10, 2, 2; 1999 RA₁₅₆, 9, 2, 2; 1999 RD₁₅₆, 5, 1, 0; 1999 RL₁₅₆, 6, 2, 7; 1999 RS₁₅₆, 5, 1, 0; 1999 RR₁₅₇, 10, 2, 1; 1999 RZ₁₅₇, 4, 1, 0; 1999 RA₁₅₈, 10, 2, 1; 1999 RB₁₅₈, 10, 2, 1; 1999 RR₁₅₈, 7, 2, 7; 1999 RU₁₅₈, 10, 2, 1; 1999 RF₁₅₉, 10, 2, 1; 1999 RV₁₅₉, 8, 2, 1; 1999 RC₁₆₀, 9, 2, 1; 1999 RD₁₆₀, 5, 1, 0; 1999 RN₁₆₀, 10, 2, 1; 1999 RO₁₆₀, 5, 1, 0; 1999 RS₁₆₀, 4, 1, 0; 1999 RW₁₆₀, 8, 2, 8; 1999 RM₁₆₁, 5, 1, 0; 1999 RL₁₆₂, 19, 4, 30; 1999 RN₁₆₂, 10, 2, 6; 1999 RO₁₆₂, 15, 3, 30; 1999 RR₁₆₂, 4, 1, 0; 1999 RS₁₆₂, 5, 1, 0; 1999 RY₁₆₂, 10, 2, 36; 1999 RZ₁₆₂, 5, 1, 0; 1999 RD₁₆₃, 5, 1, 0; 1999 RF₁₆₃, 5, 1, 0; 1999 RH₁₆₃, 5, 1, 0; 1999 RO₁₆₃, 8, 2, 2; 1999 RP₁₆₃, 5, 1, 0; 1999 RU₁₆₃, 5, 1, 0; 1999 RY₁₆₃, 5, 1, 0; 1999 RZ₁₆₃, 18, 4, 9; 1999 RW₁₆₄, 5, 1, 0; 1999 RX₁₆₄, 5, 1, 0; 1999 RF₁₆₅, 10, 2, 2; 1999 RG₁₆₅, 5, 1, 0; 1999 RH₁₆₅, 5, 1, 0; 1999 RS₁₆₅, 7, 2, 7; 1999 RB₁₆₇, 10, 2, 9; 1999 RL₁₆₇, 10, 2, 1; 1999 RO₁₆₇, 4, 1, 0; 1999 RJ₁₆₇, 4, 1, 0; 1999 RY₁₆₇, 4, 1, 0; 1999 RZ₁₆₇, 13, 3, 8; 1999 RA₁₆₈, 9, 2, 7; 1999 RF₁₆₈, 3, 1, 0; 1999 RK₁₆₈, 8, 2, 7; 1999 RM₁₆₈, 5, 1, 0; 1999 RO₁₆₈, 3, 1, 0; 1999 RJ₁₆₈, 3, 1, 0; 1999 RU₁₆₈, 8, 2, 7; 1999 RX₁₆₈, 4, 1, 0; 1999 RZ₁₆₈, 5, 1, 0; 1999 RC₁₆₉, 8, 2, 7; 1999 RG₁₆₉, 5, 1, 0; 1999 RH₁₆₉, 5, 1, 0; 1999 RJ₁₆₉, 7, 2, 8; 1999 RK₁₆₉, 5, 1, 0; 1999 RV₁₆₉, 10, 2, 2; 1999 RW₁₆₉, 6, 1, 0; 1999 RX₁₆₉, 3, 1, 0; 1999 RH₁₇₀, 5, 1, 0; 1999 RJ₁₇₀, 5, 1, 0; 1999 RQ₁₇₁, 4, 1, 0; 1999 RX₁₇₁, 3, 1, 0; 1999 RJ₁₇₂, 9, 2, 1; 1999 RM₁₇₂, 4, 1, 0; 1999 RO₁₇₂, 15, 3, 9; 1999 RV₁₇₃, 8, 2, 7; 1999 RP₁₇₄, 7, 2, 7; 1999 RQ₁₇₄, 4, 1, 0; 1999 RX₁₇₄, 3, 1, 0; 1999 RG₁₇₅, 5, 1, 0; 1999 RJ₁₇₅, 8, 2, 31; 1999 RK₁₇₅, 5, 1, 0; 1999 RV₁₇₅, 5, 1, 0; 1999 RZ₁₇₅, 5, 1, 0; 1999 RF₁₇₆, 5, 1, 0; 1999 RG₁₇₆, 10, 2, 2; 1999 RH₁₇₆, 5, 1, 0; 1999 RK₁₇₆, 10, 2, 2; 1999 RM₁₇₆, 14, 3, 8; 1999 RP₁₇₆, 15, 3, 8; 1999 RQ₁₇₆, 5, 1, 0; 1999 RJ₁₇₆, 5, 1, 0; 1999 RC₁₇₇, 5, 1, 0; 1999 RE₁₇₇, 5, 1, 0; 1999 RG₁₇₇, 4, 1, 0; 1999 RJ₁₇₇, 5, 1, 0; 1999 RO₁₇₇, 8, 2, 7; 1999 RR₁₇₇, 4, 1, 0; 1999 RY₁₇₇, 10, 2, 23; 1999 RA₁₇₈, 4, 1, 0; 1999 RH₁₇₈, 4, 1, 0; 1999 RM₁₇₈, 5, 1, 0; 1999 RN₁₇₈, 4, 1, 0; 1999 RU₁₇₈, 5, 1, 0; 1999 RC₁₇₉, 5, 1, 0; 1999 RF₁₇₉, 14, 3, 39; 1999 RM₁₇₉, 5, 1, 0; 1999 RL₁₈₀, 5, 1, 0; 1999 RW₁₈₀, 8, 2, 7; 1999 RJ₁₈₀, 8, 2, 7; 1999 RK₁₈₁, 8, 2, 7; 1999 RM₁₈₁, 8, 2, 7; 1999 RT₁₈₁, 8, 2, 7; 1999 RF₁₈₂, 3, 1, 0; 1999 RG₁₈₂, 5, 1, 0; 1999 RH₁₈₂, 8, 2, 7; 1999 RN₁₈₂, 3, 1, 0; 1999 RS₁₈₂, 9, 2, 8; 1999 RT₁₈₂, 8, 2, 8; 1999 RX₁₈₂, 5, 1, 0; 1999 RA₁₈₃, 5, 1, 0; 1999 RD₁₈₃, 10, 2, 8; 1999 RH₁₈₃, 8, 2, 7; 1999 RM₁₈₃, 5, 1, 0; 1999 RP₁₈₃, 3, 1, 0; 1999 RS₁₈₃, 8, 2, 7; 1999 RE₁₈₄, 5, 1, 0; 1999 RL₁₈₄, 5, 1, 0; 1999 RU₁₈₄, 7, 2, 7; 1999 RX₁₈₄, 5, 1, 0; 1999 RZ₁₈₄, 5, 1, 0; 1999 RN₁₈₇, 3, 1, 0; 1999 RR₁₈₇, 3, 1, 0; 1999 RX₁₈₇, 5, 1, 0; 1999 RY₁₈₈, 4, 1, 0; 1999 RQ₁₈₉, 8, 2, 8; 1999 RE₁₉₀, 5, 1, 0; 1999 RF₁₉₀, 9, 2, 8; 1999 RO₁₉₀, 15, 3, 10; 1999 RQ₁₉₀, 8, 2, 28; 1999 RS₁₉₀, 12, 3, 4; 1999 RZ₁₉₀, 4, 1, 0; 1999 RA₁₉₂, 5, 1, 0; 1999 RC₁₉₃, 15, 3, 9; 1999 RG₁₉₃, 5, 1, 0; 1999 RL₁₉₃, 4, 1, 0; 1999 RQ₁₉₃, 10, 2, 28; 1999 RR₁₉₃, 10, 2, 28; 1999 RS₁₉₃, 10, 2, 28; 1999 RV₁₉₃, 15, 3, 8; 1999 RX₁₉₃, 4, 1, 0; 1999 RY₁₉₃, 5, 1, 0; 1999 RA₁₉₄, 10, 2, 7; 1999 RB₁₉₄, 10, 2, 7; 1999 RD₁₉₄, 10, 2, 6; 1999 RE₁₉₄, 5, 1, 0; 1999 RG₁₉₄, 9, 2, 6; 1999 RH₁₉₄, 5, 1, 0; 1999 RK₁₉₄, 19, 4, 28; 1999 RM₁₉₄, 9, 2, 30; 1999 RN₁₉₄, 5, 1, 0; 1999 RO₁₉₄, 8, 2, 6; 1999 RQ₁₉₄, 5, 1, 0; 1999 RJ₁₉₄, 5, 1, 0; 1999 RS₁₉₄, 5, 1, 0; 1999 RW₁₉₄, 4, 1, 0; 1999 RB₁₉₅, 10, 2, 28; 1999 RC₁₉₅, 9, 2, 28; 1999 RD₁₉₅, 9, 2, 28; 1999 RQ₁₉₅, 5, 1, 0; 1999 RV₁₉₅, 9, 2, 19; 1999 RZ₁₉₅, 5, 1, 0; 1999 RF₁₉₆, 5, 1, 0; 1999 RJ₁₉₆, 5, 1, 0; 1999 RK₁₉₆, 5, 1, 0; 1999 RL₁₉₆, 10, 2, 10; 1999 RS₁₉₆, 9, 2, 28; 1999 RT₁₉₆, 10, 2, 28; 1999 RU₁₉₆, 9, 2, 28; 1999 RX₁₉₆, 10, 2, 18; 1999 RB₁₉₇, 5, 1, 0; 1999 RG₁₉₇, 19, 4, 6; 1999 RH₁₉₇, 5, 1, 0; 1999 RK₁₉₇, 5, 1, 0; 1999 RL₁₉₇, 10, 2, 9; 1999 RO₁₉₇, 5, 1, 0; 1999 RR₁₉₇, 5, 1, 0; 1999 RU₁₉₇, 10, 2, 18; 1999 RV₁₉₇, 5, 1, 0; 1999 RX₁₉₇, 15, 3, 4; 1999 RB₁₉₈, 5, 1, 0; 1999 RC₁₉₈, 5, 1, 0; 1999 RR₁₉₈, 5, 1, 0; 1999 RT₁₉₈, 9, 2, 28; 1999 RG₁₉₉,

5, 1, 0; 1999 RM₁₉₉, 5, 1, 0; 1999 RN₁₉₉, 10, 2, 1; 1999 RO₁₉₉, 5, 1, 0; 1999 RP₁₉₉, 10, 1, 0; 1999 RZ₁₉₉, 5, 1, 0; 1999 RG₂₀₀, 15, 2, 1; 1999 RL₂₀₀, 5, 1, 0; 1999 RN₂₀₀, 17, 4, 136; 1999 RY₂₀₀, 5, 1, 0; 1999 RB₂₀₁, 12, 2, 1; 1999 RL₂₀₁, 9, 2, 18; 1999 RQ₂₀₁, 5, 1, 0; 1999 RR₂₀₁, 5, 1, 0; 1999 RS₂₀₁, 5, 1, 0; 1999 RT₂₀₁, 5, 1, 0; 1999 RW₂₀₁, 5, 1, 0; 1999 RE₂₀₂, 5, 1, 0; 1999 RJ₂₀₂, 5, 1, 0; 1999 RQ₂₀₂, 5, 1, 0; 1999 RS₂₀₂, 10, 1, 0; 1999 RA₂₀₄, 5, 1, 0; 1999 RF₂₀₄, 4, 1, 0; 1999 RQ₂₀₄, 5, 1, 0; 1999 RK₂₀₅, 5, 1, 0; 1999 RP₂₀₅, 5, 1, 0; 1999 RV₂₀₅, 5, 1, 0; 1999 RU₂₀₅, 10, 1, 0; 1999 RW₂₀₅, 10, 1, 0; 1999 RZ₂₀₅, 18, 2, 56; 1999 RA₂₀₆, 5, 1, 0; 1999 RB₂₀₆, 5, 1, 0; 1999 RN₂₀₆, 5, 1, 0; 1999 RQ₂₀₆, 15, 3, 105; 1999 RR₂₀₆, 5, 1, 0; 1999 RT₂₀₆, 5, 1, 0; 1999 RU₂₀₆, 5, 1, 0; 1999 RY₂₀₆, 4, 1, 0; 1999 RC₂₀₇, 5, 1, 0; 1999 RJ₂₀₇, 4, 1, 0; 1999 RP₂₀₇, 5, 1, 0; 1999 RR₂₀₇, 10, 2, 9; 1999 RX₂₀₇, 5, 1, 0; 1999 RA₂₀₈, 5, 1, 0; 1999 RC₂₀₈, 5, 1, 0; 1999 RG₂₀₈, 5, 1, 0; 1999 RH₂₀₈, 10, 2, 1; 1999 RN₂₀₈, 4, 1, 0; 1999 RS₂₀₈, 10, 2, 2; 1999 RT₂₀₈, 5, 1, 0; 1999 RW₂₀₈, 14, 2, 2; 1999 RB₂₀₉, 5, 1, 0; 1999 RC₂₀₉, 5, 1, 0; 1999 RH₂₀₉, 5, 1, 0; 1999 RM₂₀₉, 5, 1, 0; 1999 RQ₂₀₉, 5, 1, 0; 1999 RV₂₀₉, 5, 1, 0; 1999 RX₂₀₉, 5, 1, 0; 1999 RB₂₁₀, 5, 1, 0; 1999 RD₂₁₀, 5, 1, 0; 1999 RJ₂₁₀, 5, 1, 0; 1999 RK₂₁₀, 5, 1, 0; 1999 RO₂₁₀, 5, 1, 0; 1999 RX₂₁₀, 5, 1, 0; 1999 RA₂₁₁, 9, 2, 25; 1999 RB₂₁₁, 7, 2, 11; 1999 RD₂₁₁, 7, 2, 11; 1999 RF₂₁₁, 14, 2, 11; 1999 RJ₂₁₁, 5, 1, 0; 1999 RE₂₁₁, 9, 2, 11; 1999 RM₂₁₁, 8, 2, 9; 1999 RN₂₁₁, 5, 1, 0; 1999 RQ₂₁₁, 5, 1, 0; 1999 RS₂₁₁, 5, 1, 0; 1999 RU₂₁₁, 5, 1, 0; 1999 RV₂₁₁, 12, 2, 11; 1999 RA₂₁₂, 4, 1, 0; 1999 RC₂₁₂, 15, 2, 1; 1999 RD₂₁₂, 3, 1, 0; 1999 RE₂₁₂, 5, 1, 0; 1999 RF₂₁₂, 5, 1, 0; 1999 RA₂₁₃, 7, 2, 11; 1999 RC₂₁₃, 5, 1, 0; 1999 RE₂₁₃, 5, 1, 0; 1999 RM₂₁₃, 3, 1, 0; 1999 RP₂₁₃, 5, 1, 0; 1999 RH₂₁₄, 9, 2, 26; 1999 RM₂₁₄, 10, 2, 6; 1999 RN₂₁₄, 10, 2, 6; 1999 RO₂₁₄, 22, 5, 6; 1999 SE₁₀, 2, 6; 1999 SG₁₄, 3, 10; 1999 SH₁₅, 3, 10; 1999 SJ₁₀, 2, 6; 1999 SL₁₅, 3, 10; 1999 SH₁₁, 11, 2, 4; 1999 SN₁, 22, 4, 10; 1999 SO₁, 15, 3, 7; 1999 SP₁, 5, 1, 0; 1999 SU₁, 10, 2, 1; 1999 SW₁, 5, 1, 0; 1999 SZ₁, 5, 1, 0; 1999 SA₂, 9, 2, 9; 1999 SC₂, 10, 2, 28; 1999 SF₂, 14, 3, 10; 1999 SG₂, 14, 3, 10; 1999 SH₂, 10, 2, 6; 1999 SR₂, 4, 1, 0; 1999 SS₂, 5, 1, 0; 1999 SU₂, 15, 3, 10; 1999 SV₂, 9, 2, 10; 1999 SW₂, 15, 3, 10; 1999 SF₃, 5, 1, 0; 1999 SG₃, 3, 1, 0; 1999 SS₃, 5, 1, 0; 1999 SX₃, 8, 2, 6; 1999 SY₃, 5, 1, 0; 1999 SZ₃, 4, 1, 0; 1999 SB₄, 10, 2, 10; 1999 SG₄, 10, 2, 28; 1999 SK₄, 10, 2, 6; 1999 SL₄, 10, 2, 28; 1999 SO₄, 14, 3, 10; 1999 SP₄, 24, 4, 28; 1999 SQ₄, 15, 3, 10; 1999 SR₄, 14, 3, 10; 1999 SZ₄, 5, 1, 0; 1999 RS₅, 5, 1, 0; 1999 ST₅, 10, 2, 33; 1999 SV₅, 3, 1, 0; 1999 SD₆, 8, 1, 0; 1999 SN₆, 5, 1, 0; 1999 SU₆, 10, 2, 5; 1999 SV₆, 5, 1, 0; 1999 SW₆, 19, 4, 9; 1999 SG₇, 10, 2, 60; 1999 SS₈, 8, 2, 81; 1999 SN₉, 20, 4, 10; 1999 SP₉, 10, 2, 9; 1999 SR₉, 15, 2, 4; 1999 SS₉, 10, 2, 10; 1999 ST₉, 19, 4, 6; 1999 SX₉, 10, 2, 6; 1999 SA₁₀, 5, 1, 0; 1999 SC₁₀, 5, 1, 0; 1999 SK₁₀, 12, 3, 10; 1999 SR₁₀, 27, 5, 28; 1999 ST₁₀, 5, 1, 0; 1999 SU₁₀, 10, 2, 28; 1999 SW₁₀, 10, 2, 28; 1999 SB₁₁, 10, 2, 28; 1999 SH₁₁, 10, 2, 28; 1999 SJ₁₁, 10, 2, 28; 1999 SN₁₁, 20, 4, 12; 1999 SO₁₁, 24, 5, 41; 1999 SP₁₁, 25, 4, 28; 1999 SQ₁₁, 10, 2, 10; 1999 ST₁₁, 15, 3, 10; 1999 ST₁₁, 9, 2, 10; 1999 SU₁₁, 9, 2, 28; 1999 SV₁₁, 10, 2, 10; 1999 SW₁₁, 15, 3, 10; 1999 TD₁, 15, 3, 22; 1999 TE₁, 15, 3, 5; 1999 TF₁, 5, 1, 0; 1999 TM₁, 20, 4, 9; 1999 TN₁, 19, 4, 9; 1999 TO₁, 17, 4, 28; 1999 TP₁, 14, 3, 10; 1999 TQ₁, 10, 2, 5; 1999 TT₁, 15, 3, 10; 1999 TU₁, 14, 3, 10; 1999 TV₁, 10, 2, 5; 1999 TW₁, 10, 2, 5; 1999 TY₁, 14, 3, 10; 1999 TZ₁, 20, 4, 28; 1999 TA₁, 20, 4, 28; 1999 TB₁, 10, 2, 5; 1999 TC₁, 15, 3, 10; 1999 TG₁, 10, 2, 5; 1999 TH₁, 15, 3, 27; 1999 TJ₁, 10, 2, 5; 1999 TL₁, 14, 3, 10; 1999 TM₁, 10, 2, 5; 1999 TN₁, 15, 3, 27; 1999 TO₁, 14, 3, 6; 1999 TP₁, 14, 3, 27; 1999 TR₁, 15, 3, 9; 1999 TS₁, 15, 3, 9; 1999 TT₁, 9, 2, 5; 1999 TU₁, 15, 3, 10; 1999 TV₁, 14, 3, 10; 1999 TY₁, 14, 3, 11; 1999 TE₂, 5, 1, 0; 1999 TF₂, 15, 3, 5; 1999 TG₂, 15, 3, 5; 1999 TH₂, 15, 3, 5; 1999 TJ₂, 20, 3, 10; 1999 TK₂, 5, 1, 0; 1999 TZ₂, 9, 2, 10; 1999 TA₃, 9, 1, 0; 1999 TD₃, 10, 2, 28; 1999 TO₃, 10, 2,

2000 APR. 18

M.P.C. 39763

1999 TU₁₃, 9, 2, 5; 1999 TX₁₃, 5, 1, 0; 1999 TY₁₃, 9, 2, 5; 1999 TB₁₄, 25, 4, 28; 1999 TD₁₄, 15, 3, 11; 1999 TE₁₄, 15, 3, 10; 1999 TG₁₄, 12, 3, 10; 1999 TH₁₄, 14, 3, 10; 1999 TK₁₄, 15, 3, 10; 1999 TL₁₄, 4, 1, 0; 1999 TM₁₄, 14, 3, 11; 1999 TN₁₄, 14, 3, 11; 1999 TO₁₄, 5, 1, 0; 1999 TS₁₄, 15, 3, 10; 1999 TW₁₄, 10, 2, 5; 1999 TX₁₄, 15, 3, 10; 1999 TY₁₄, 25, 4, 10; 1999 TZ₁₄, 10, 2, 4; 1999 TA₁₅, 15, 3, 28; 1999 TE₁₅, 10, 2, 6; 1999 TG₁₅, 15, 3, 10; 1999 TH₁₅, 9, 2, 5; 1999 TV₁₅, 9, 2, 5; 1999 TW₁₅, 4, 1, 0; 1999 TY₁₅, 20, 4, 28; 1999 TD₁₆, 14, 3, 28; 1999 TE₁₆, 19, 4, 10; 1999 TF₁₆, 14, 3, 28; 1999 TG₁₆, 20, 4, 9; 1999 TJ₁₆, 20, 4, 10; 1999 TK₁₆, 10, 2, 4; 1999 TO₁₆, 11, 3, 10; 1999 TP₁₆, 15, 3, 10; 1999 TS₁₆, 15, 3, 11; 1999 TZ₁₆, 5, 1, 0; 1999 TB₁₇, 15, 3, 9; 1999 TE₁₇, 12, 3, 11; 1999 TF₁₇, 14, 3, 11; 1999 TG₁₇, 14, 3, 10; 1999 TH₁₇, 14, 3, 10; 1999 TJ₁₇, 5, 1, 0; 1999 TM₁₇, 5, 1, 0; 1999 TN₁₇, 5, 1, 0; 1999 TQ₁₇, 9, 2, 10; 1999 TS₁₇, 15, 3, 10; 1999 TY₁₇, 8, 2, 10; 1999 TZ₁₇, 15, 3, 9; 1999 TJ₁₈, 15, 3, 9; 1999 TL₁₈, 20, 4, 10; 1999 TQ₁₈, 10, 2, 5; 1999 TR₁₈, 15, 3, 27; 1999 TT₁₈, 3, 1, 0; 1999 TU₁₈, 5, 1, 0; 1999 TY₁₈, 9, 2, 6; 1999 TZ₁₈, 10, 2, 4; 1999 TF₁₉, 4, 1, 0; 1999 TG₁₉, 5, 1, 0; 1999 TH₁₉, 10, 2, 5; 1999 TJ₁₉, 10, 2, 11; 1999 TK₁₉, 5, 1, 0; 1999 TL₁₉, 20, 4, 39; 1999 TO₁₉, 10, 2, 28; 1999 TC₂₀, 10, 2, 28; 1999 TG₂₀, 15, 3, 11; 1999 TH₂₀, 5, 1, 0; 1999 TO₂₀, 14, 3, 10; 1999 TP₂₀, 12, 3, 10; 1999 TA₂₁, 20, 4, 11; 1999 TB₂₁, 20, 4, 11; 1999 TG₂₁, 3, 1, 0; 1999 TH₂₁, 10, 2, 4; 1999 TP₂₁, 9, 2, 11; 1999 TS₂₁, 3, 1, 0; 1999 TC₂₂, 5, 1, 0; 1999 TH₂₂, 5, 1, 0; 1999 TW₂₄, 10, 2, 8; 1999 TE₂₅, 13, 3, 8; 1999 TG₂₅, 14, 3, 5; 1999 TK₂₅, 8, 2, 2; 1999 TM₂₅, 5, 1, 0; 1999 TN₂₅, 23, 4, 8; 1999 TQ₂₅, 10, 2, 5; 1999 TT₂₅, 40, 7, 14; 1999 TY₂₅, 17, 4, 14; 1999 TZ₂₅, 18, 4, 14; 1999 TB₂₆, 20, 4, 14; 1999 TE₂₆, 23, 4, 14; 1999 TF₂₆, 15, 3, 8; 1999 TH₂₆, 13, 3, 8; 1999 TJ₂₆, 19, 4, 14; 1999 TL₂₆, 24, 5, 30; 1999 TN₂₆, 32, 6, 14; 1999 TP₂₆, 16, 3, 8; 1999 TQ₂₆, 20, 4, 14; 1999 TU₂₆, 24, 5, 14; 1999 TV₂₆, 20, 4, 11; 1999 TX₂₆, 24, 5, 30; 1999 TZ₂₆, 14, 3, 11; 1999 TC₂₇, 23, 5, 30; 1999 TE₂₇, 22, 5, 14; 1999 TG₂₇, 15, 3, 11; 1999 TH₂₇, 18, 4, 12; 1999 TJ₂₇, 22, 5, 38; 1999 TK₂₇, 18, 4, 14; 1999 TL₂₇, 15, 3, 11; 1999 TM₂₇, 14, 3, 11; 1999 TN₂₇, 15, 3, 11; 1999 TP₂₇, 14, 3, 14; 1999 TQ₂₇, 15, 3, 14; 1999 TR₂₇, 5, 1, 0; 1999 TS₂₇, 19, 4, 15; 1999 TX₂₇, 10, 2, 10; 1999 TY₂₇, 20, 3, 3; 1999 TZ₂₇, 15, 2, 2; 1999 TA₂₈, 22, 5, 14; 1999 TD₂₈, 17, 4, 14; 1999 TH₂₈, 18, 4, 11; 1999 TV₂₈, 12, 3, 8; 1999 TW₂₈, 18, 4, 30; 1999 TX₂₈, 18, 4, 8; 1999 TD₂₉, 18, 4, 30; 1999 TF₂₉, 19, 4, 30; 1999 TG₂₉, 19, 4, 30; 1999 TN₂₉, 5, 1, 0; 1999 TO₂₉, 19, 4, 30; 1999 TP₂₉, 14, 3, 8; 1999 TU₂₉, 3, 1, 0; 1999 TC₃₀, 10, 2, 2; 1999 TF₃₀, 15, 3, 30; 1999 TP₃₀, 19, 4, 12; 1999 TR₃₀, 13, 3, 22; 1999 TU₃₀, 21, 5, 12; 1999 TV₃₀, 29, 5, 30; 1999 TX₃₀, 25, 5, 30; 1999 TA₃₁, 23, 6, 932; 1999 TC₃₁, 23, 5, 12; 1999 TE₃₁, 25, 5, 12; 1999 TK₃₁, 17, 4, 12; 1999 TR₃₁, 13, 3, 10; 1999 TS₃₁, 13, 3, 10; 1999 TW₃₁, 19, 4, 10; 1999 TA₃₂, 13, 3, 12; 1999 TG₃₂, 23, 5, 30; 1999 TJ₃₂, 13, 3, 8; 1999 TM₃₂, 15, 3, 8; 1999 TN₃₂, 15, 3, 8; 1999 TW₃₂, 14, 3, 8; 1999 TX₃₂, 19, 4, 30; 1999 TH₃₃, 12, 3, 10; 1999 TN₃₃, 10, 2, 10; 1999 TQ₃₃, 29, 5, 12; 1999 TR₃₃, 23, 5, 12; 1999 TZ₃₃, 15, 3, 8; 1999 TD₃₄, 15, 2, 2; 1999 TQ₃₄, 10, 2, 29; 1999 TS₃₄, 10, 2, 28; 1999 TU₃₄, 13, 1, 0; 1999 TW₃₄, 9, 2, 28; 1999 TA₃₅, 10, 1, 0; 1999 TD₃₅, 4, 1, 0; 1999 TG₃₅, 5, 1, 0; 1999 TH₃₅, 4, 1, 0; 1999 TL₃₅, 5, 1, 0; 1999 TO₃₅, 5, 1, 0; 1999 TQ₃₅, 5, 1, 0; 1999 TR₃₅, 10, 2, 28; 1999 TW₃₅, 5, 1, 0; 1999 TY₃₅, 18, 4, 12; 1999 TM₃₆, 14, 3, 98; 1999 TV₃₆, 15, 3, 64; 1999 UA₁₅, 10, 2, 10; 1999 UE₁₅, 5, 1, 0; 1999 UF₁₅, 15, 3, 10; 1999 UG₁₅, 15, 3, 10; 1999 UK₁₄, 13, 8; 1999 UO₁₈, 4, 27; 1999 UP₁₅, 3, 9; 1999 UU₁₅, 5, 1, 0; 1999 UV₁₅, 3, 10; 1999 UW₁₄, 14, 3, 10; 1999 UZ₉, 2, 5; 1999 UA₁₄, 14, 3, 8; 1999 UC₁₄, 9, 2, 5; 1999 UD₁₄, 12, 3, 8; 1999 UE₁₄, 14, 3, 8; 1999 UF₁₄, 8, 2, 5; 1999 UL₁₄, 15, 3, 8; 1999 UN₁₄, 15, 3, 11; 1999 UP₁₄, 13, 3, 28; 1999 UQ₁₄, 12, 3, 10; 1999 UR₁₄, 8, 2, 7; 1999 UV₁₄, 15, 3, 10; 1999 UY₁₄, 14, 3, 11; 1999 UA₂₀, 2, 4, 27; 1999 UE₂₀, 8, 2, 3; 1999 UF₂₀, 13, 3, 12; 1999 UG₂₀, 5, 1, 0; 1999 UH₂₄, 14, 3, 8; 1999 UK₂₀, 15, 3, 8; 1999 UP₂₀, 9, 2, 30; 1999 UQ₂₀, 10, 2, 9; 1999 UV₂₀, 31, 6, 30; 1999 UW₂₀, 19, 4, 14; 1999 UX₂₀, 15, 3, 28; 1999 UY₂₀, 19, 4, 28; 1999 UZ₂₀, 10, 2, 11; 1999 UC₃₀, 10, 2, 10; 1999 UL₃₀, 8, 2, 5; 1999 UN₃₀, 14, 3, 10; 1999 UO₃₀, 16, 4, 14; 1999 UP₃₀, 9, 2, 7; 1999 UT₃₀, 15, 1, 0; 1999 UU₃₀, 28, 6, 30; 1999 UA₁₈, 18, 4, 30; 1999 UC₁₈, 13, 3, 28; 1999 UD₁₈, 14, 3, 8; 1999 UE₁₈, 24, 5, 30; 1999 UF₁₈, 9, 2, 9; 1999 UG₁₈, 9, 2, 5; 1999 UH₁₈, 9, 2, 5; 1999 UJ₁₈, 25, 4, 30; 1999 UN₁₈, 19, 4, 15; 1999 UO₁₈, 13, 3, 15; 1999 UQ₁₈, 15, 3, 28; 1999 UA₁₇, 4, 8; 1999 UB₁₇, 5, 1, 0; 1999 UA₅, 4, 1, 0; 1999 UC₅, 17, 4, 14; 1999 UD₅, 14, 3, 11; 1999 UE₅, 4, 1, 0; 1999 UG₅, 4, 1, 0; 1999 UL₅, 3, 1, 0; 1999 UQ₅, 15, 3, 14; 1999 UR₅, 20, 4, 14; 1999 UB₆, 37, 7, 41; 1999 UD₆, 19, 4, 12; 1999 UG₆, 23, 4, 28; 1999 UH₆, 13, 3, 11; 1999 UL₆, 9, 2, 5; 1999 UN₆, 20, 4, 14; 1999 US₆, 10, 2, 5; 1999 UH₇, 4, 1, 0; 1999 UK₇, 4, 1, 0; 1999 UR₇, 14, 3, 11; 1999 US₇, 17, 4, 30; 1999 UW₇, 17, 4, 14; 1999 UX₇, 9, 2, 5; 1999 UA₈, 20, 4, 7; 1999 UB₈, 10, 2, 25; 1999 UD₈, 9, 2, 11; 1999 UE₈, 7, 2, 10; 1999 UG₈, 10, 2, 10; 1999 UL₈, 23, 5, 15; 1999 UM₈, 10, 2, 11; 1999 UP₈, 10, 2, 10; 1999 UQ₈, 18, 4, 15; 1999 US₈, 10, 2, 11; 1999 UU₈, 19, 4, 15; 1999 UV₈, 14, 3, 11; 1999 UW₈, 15, 3, 11; 1999 UX₈, 13, 3, 11; 1999 UC₉, 10, 2, 11; 1999 UG₉, 8, 2, 11; 1999 UJ₉, 10, 2, 11; 1999 UL₉, 10, 2, 10; 1999 UV₉, 9, 2, 73; 1999 UD₁₀, 5, 1, 0; 1999 UQ₁₀, 9, 2, 163; 1999 UZ₁₀, 5, 1, 0; 1999 UG₁₁, 5, 1, 0; 1999 UJ₁₁, 9, 2, 12; 1999 UM₁₁, 9, 2, 5; 1999 UN₁₁, 20, 4, 14; 1999 UO₁₁, 5, 1, 0; 1999 UQ₁₁, 15, 2, 1; 1999 UL₁₂, 4, 1, 0; 1999 UR₁₂, 19, 4, 30; 1999 US₁₂, 17, 4, 30; 1999 UV₁₂, 32, 6, 30; 1999 UB₁₃, 10, 2, 9; 1999 UF₁₃, 29, 6, 30; 1999 UH₁₃, 23, 5, 30; 1999 UJ₁₃, 29, 5, 30; 1999 UL₁₃, 20, 4, 30; 1999 UO₁₃, 4, 1, 0; 1999 US₁₃, 10, 2, 12; 1999 UU₁₃, 15, 3, 12; 1999 UA₁₄, 14, 3, 10; 1999 UF₁₄, 19, 5, 515; 1999 UH₁₄, 14, 3, 10; 1999 UM₁₄, 15, 3, 36; 1999 UY₁₄, 5, 1, 0; 1999 UA₁₅, 14, 3, 8; 1999 UB₁₅, 9, 2, 5; 1999 UD₁₅, 14, 3, 8; 1999 UE₁₅, 13, 3, 8; 1999 UF₁₅, 14, 3, 8; 1999 UG₁₅, 10, 2, 36; 1999 UH₁₅, 9, 2, 9; 1999 UJ₁₅, 13, 3, 41; 1999 UK₁₅, 13, 3, 8; 1999 UL₁₅, 22, 5, 41; 1999 UM₁₅, 10, 2, 5; 1999 UQ₁₅, 15, 3, 12; 1999 UV₁₅, 10, 2, 10; 1999 UY₁₅, 9, 2, 22; 1999 UA₁₆, 17, 4, 41; 1999 UB₁₆, 14, 3, 36;

1999 UC₁₆, 15, 3, 8; 1999 UG₁₆, 20, 4, 14; 1999 UL₁₆, 13, 3, 11; 1999 UQ₁₆, 24, 5, 30; 1999 UU₁₆, 18, 4, 27; 1999 UV₁₆, 18, 4, 14; 1999 UC₁₇, 15, 3, 27; 1999 UD₁₇, 10, 2, 10; 1999 UH₁₈, 19, 4, 30; 1999 UY₂₀, 8, 2, 2; 1999 UG₂₂, 3, 1, 0; 1999 UH₂₂, 5, 1, 0; 1999 UJ₂₃, 5, 1, 0; 1999 UP₂₃, 10, 2, 12; 1999 UQ₂₃, 5, 1, 0; 1999 UR₂₃, 15, 3, 12; 1999 US₂₃, 15, 3, 12; 1999 UV₂₃, 5, 1, 0; 1999 UW₂₃, 5, 1, 0; 1999 UB₂₄, 5, 1, 0; 1999 UE₂₄, 15, 1, 0; 1999 UJ₂₄, 10, 1, 0; 1999 UK₂₄, 10, 1, 0; 1999 UL₂₄, 4, 1, 0; 1999 UN₂₄, 15, 3, 14; 1999 UP₂₄, 10, 2, 9; 1999 UQ₂₄, 5, 1, 0; 1999 UU₂₄, 10, 2, 12; 1999 UW₂₄, 5, 1, 0; 1999 UC₂₅, 14, 3, 14; 1999 UG₂₅, 5, 1, 0; 1999 UU₂₅, 8, 2, 41; 1999 UZ₂₅, 13, 3, 8; 1999 UG₂₆, 4, 1, 0; 1999 UL₂₆, 19, 4, 8; 1999 UM₂₆, 14, 3, 8; 1999 UO₂₆, 15, 3, 14; 1999 UP₂₆, 12, 3, 14; 1999 UQ₂₆, 15, 3, 42; 1999 US₂₆, 5, 1, 0; 1999 UT₂₆, 10, 2, 12; 1999 UX₂₆, 5, 1, 0; 1999 UA₂₇, 5, 1, 0; 1999 UX₂₇, 8, 2, 6; 1999 UD₂₈, 15, 3, 8; 1999 UV₂₈, 37, 5, 30; 1999 UA₂₉, 18, 4, 30; 1999 UQ₂₉, 20, 4, 30; 1999 UD₃₁, 29, 4, 30; 1999 UL₃₂, 14, 3, 8; 1999 UQ₃₄, 9, 2, 5; 1999 UT₃₄, 7, 2, 5; 1999 UG₃₅, 18, 4, 41; 1999 UN₃₅, 10, 2, 28; 1999 UC₃₅, 8, 2, 64; 1999 UP₃₅, 5, 1, 0; 1999 UZ₃₆, 7, 2, 510; 1999 UF₃₉, 4, 1, 0; 1999 UH₃₉ *, 15, 2, 4; 1999 VB₄, 4, 1, 0; 1999 VG₁₄, 3, 8; 1999 VK₈, 2, 10; 1999 VL₉, 9, 2, 5; 1999 VM₉, 9, 2, 5; 1999 VR₅, 5, 1, 0; 1999 VS₉, 9, 2, 28; 1999 VU₅, 5, 1, 0; 1999 VY₂₀, 4, 12; 1999 VZ₁₄, 13, 11; 1999 VB₁₀, 10, 2, 28; 1999 VE₁, 20, 4, 14; 1999 VF₁, 5, 1, 0; 1999 VG₁, 14, 3, 11; 1999 VL₁, 5, 1, 0; 1999 VN₁, 14, 3, 3; 1999 VP₁, 5, 1, 0; 1999 VS₁, 9, 2, 10; 1999 VT₁, 9, 2, 5; 1999 VV₁, 17, 4, 12; 1999 VZ₁, 8, 2, 11; 1999 VD₂, 5, 1, 0; 1999 VE₂, 9, 2, 5; 1999 VG₂, 10, 2, 28; 1999 VH₂, 13, 3, 10; 1999 VJ₂, 5, 1, 0; 1999 VM₂, 10, 2, 9; 1999 VQ₂, 12, 3, 8; 1999 VV₂, 8, 2, 2; 1999 VZ₂, 15, 3, 14; 1999 VG₃, 9, 2, 11; 1999 VA₄, 20, 4, 30; 1999 VD₄, 10, 2, 29; 1999 VH₄, 10, 2, 28; 1999 VK₄, 27, 6, 41; 1999 VL₄, 5, 1, 0; 1999 VR₄, 10, 2, 10; 1999 VT₄, 15, 3, 22; 1999 VU₄, 4, 1, 0; 1999 VV₄, 16, 4, 14; 1999 VX₄, 19, 4, 11; 1999 VA₅, 19, 4, 11; 1999 VB₅, 19, 4, 11; 1999 VC₅, 17, 4, 11; 1999 VD₅, 14, 3, 11; 1999 VG₅, 10, 2, 11; 1999 VH₅, 10, 2, 10; 1999 VJ₅, 5, 1, 0; 1999 VM₅, 20, 4, 10; 1999 VU₅, 14, 3, 11; 1999 VX₅, 5, 1, 0; 1999 VY₅, 14, 3, 11; 1999 VA₆, 14, 3, 10; 1999 VF₆, 4, 1, 0; 1999 VG₆, 14, 2, 3; 1999 VJ₆, 5, 1, 0; 1999 VK₆, 14, 3, 10; 1999 VN₆, 4, 1, 0; 1999 VQ₆, 10, 2, 9; 1999 VW₆, 5, 1, 0; 1999 VX₆, 5, 1, 0; 1999 VY₆, 5, 1, 0; 1999 VZ₆, 5, 1, 0; 1999 VA₇, 10, 2, 8; 1999 VB₇, 5, 1, 0; 1999 VD₇, 9, 2, 5; 1999 VG₇, 3, 1, 0; 1999 VJ₇, 18, 4, 14; 1999 VP₇, 18, 4, 14; 1999 VQ₇, 5, 1, 0; 1999 VR₇, 14, 3, 11; 1999 VS₇, 9, 2, 7; 1999 VT₇, 13, 3, 11; 1999 VB₈, 9, 2, 9; 1999 VF₈, 16, 4, 175; 1999 VM₈, 19, 4, 30; 1999 VO₈, 14, 3, 11; 1999 VP₈, 15, 3, 28; 1999 VQ₈, 14, 3, 11; 1999 VR₈, 5, 1, 0; 1999 VS₈, 9, 2, 28; 1999 VT₈, 10, 2, 28; 1999 VU₈, 10, 2, 28; 1999 VV₈, 10, 3, 10; 1999 VX₈, 8, 2, 25; 1999 VY₈, 5, 1, 0; 1999 VZ₈, 5, 1, 0; 1999 VA₉, 5, 1, 0; 1999 VB₉, 10, 2, 8; 1999 VD₉, 5, 1, 0; 1999 VE₉, 8, 2, 602; 1999 VF₉, 5, 1, 0; 1999 VH₉, 17, 4, 30; 1999 VL₉, 8, 2, 10; 1999 VN₉, 5, 1, 0; 1999 VQ₉, 12, 3, 10; 1999 VR₉, 10, 2, 164; 1999 VS₉, 5, 1, 0; 1999 VT₉, 4, 1, 0; 1999 VU₉, 5, 1, 0; 1999 VV₉, 5, 1, 0; 1999 VW₉, 4, 1, 0; 1999 VX₉, 5, 1, 0; 1999 VY₉, 5, 1, 0; 1999 VZ₉, 10, 2, 1; 1999 VB₁₀, 5, 1, 0; 1999 VC₁₀, 10, 2, 1; 1999 VD₁₀, 5, 1, 0; 1999 VK₁₀, 13, 3, 11; 1999 VL₁₀, 14, 3, 10; 1999 VM₁₀, 10, 2, 11; 1999 VO₁₀, 4, 1, 0; 1999 VR₁₀, 5, 1, 0; 1999 VS₁₀, 5, 1, 0; 1999 VT₁₀, 4, 1, 0; 1999 VV₁₀, 5, 1, 0; 1999 VW₁₀, 5, 1, 0; 1999 VA₁₁, 10, 2, 9; 1999 VB₁₁, 10, 2, 11; 1999 VF₁₁, 13, 3, 14; 1999 VG₁₁, 15, 3, 11; 1999 VJ₁₁, 8, 2, 10; 1999 VK₁₁, 4, 1, 0; 1999 VS₁₁, 3, 1, 0; 1999 VT₁₁, 14, 3, 38; 1999 VY₁₁, 10, 2, 1; 1999 VZ₁₁, 10, 2, 1; 1999 VA₁₂, 5, 1, 0; 1999 VB₁₂, 10, 2, 1; 1999 VE₁₂, 24, 5, 15; 1999 VF₁₂, 3, 1, 0; 1999 VM₁₂, 5, 1, 0; 1999 VP₁₂, 4, 1, 0; 1999 VQ₁₂, 14, 3, 11; 1999 VR₁₂, 9, 2, 11; 1999 VS₁₂, 10, 2, 11; 1999 VT₁₂, 10, 2, 11; 1999 VU₁₂, 8, 2, 11; 1999 VV₁₂, 5, 1, 0; 1999 VW₁₂, 9, 2, 1; 1999 VX₁₂, 5, 1, 0; 1999 VZ₁₂, 5,

1999 VT₂₇, 14, 3, 11; 1999 VU₂₇, 13, 3, 11; 1999 VV₂₇, 4, 1, 0; 1999 VZ₂₇, 5, 1, 0; 1999 VD₂₈, 5, 1, 0; 1999 VK₂₈, 10, 2, 10; 1999 VL₂₈, 5, 1, 0; 1999 VP₂₈, 5, 1, 0; 1999 VC₂₉, 3, 1, 0; 1999 VD₂₉, 8, 2, 10; 1999 VT₂₉, 13, 3, 24; 1999 VV₂₉, 5, 1, 0; 1999 VX₂₉, 5, 1, 0; 1999 VC₃₀, 3, 1, 0; 1999 VN₃₀, 9, 2, 10; 1999 VO₃₀, 4, 1, 0; 1999 VP₃₀, 9, 2, 10; 1999 VQ₃₀, 10, 2, 10; 1999 VT₃₀, 15, 2, 2; 1999 VV₃₀, 5, 1, 0; 1999 VC₃₁, 4, 1, 0; 1999 VG₃₁, 5, 1, 0; 1999 VH₃₁, 5, 1, 0; 1999 VJ₃₁, 14, 3, 11; 1999 VW₃₁, 10, 2, 10; 1999 VG₃₂, 9, 2, 10; 1999 VM₃₂, 4, 1, 0; 1999 VR₃₂, 7, 2, 10; 1999 VE₃₃, 5, 1, 0; 1999 VM₃₃, 5, 1, 0; 1999 VD₃₄, 10, 2, 12; 1999 VE₃₄, 4, 1, 0; 1999 VF₃₄, 3, 1, 0; 1999 VM₃₄, 9, 2, 2; 1999 VO₃₄, 5, 1, 0; 1999 VP₃₄, 5, 1, 0; 1999 VT₃₄, 5, 1, 0; 1999 VV₃₄, 10, 2, 2; 1999 VE₃₅, 4, 1, 0; 1999 VO₃₅, 5, 1, 0; 1999 VP₃₅, 4, 1, 0; 1999 VR₃₅, 13, 3, 10; 1999 VS₃₅, 13, 3, 12; 1999 VB₃₆, 5, 1, 0; 1999 VD₃₆, 5, 1, 0; 1999 VG₃₆, 5, 1, 0; 1999 VJ₃₆, 5, 1, 0; 1999 VN₃₆, 10, 2, 10; 1999 VO₃₆, 9, 2, 3; 1999 VQ₃₆, 4, 1, 0; 1999 VW₃₆, 4, 1, 0; 1999 VX₃₆, 10, 2, 10; 1999 VY₃₆, 5, 1, 0; 1999 VA₃₇, 9, 2, 7; 1999 VC₃₇, 4, 1, 0; 1999 VE₃₇, 4, 1, 0; 1999 VG₃₇, 4, 1, 0; 1999 VM₃₇, 3, 1, 0; 1999 VO₃₇, 5, 1, 0; 1999 VQ₃₇, 9, 2, 11; 1999 VV₃₇, 13, 3, 12; 1999 VC₃₈, 4, 1, 0; 1999 VR₃₈, 5, 1, 0; 1999 VZ₃₈, 5, 1, 0; 1999 VW₃₉, 20, 4, 30; 1999 VH₄₀, 10, 2, 10; 1999 VJ₄₀, 13, 3, 10; 1999 VM₄₀, 5, 1, 0; 1999 VO₄₀, 9, 2, 5; 1999 VJ₄₃, 13, 3, 10; 1999 VQ₄₃, 8, 2, 39; 1999 VR₄₃, 19, 4, 9; 1999 VS₄₃, 5, 1, 0; 1999 VU₄₃, 19, 4, 12; 1999 VV₄₃, 29, 6, 12; 1999 VW₄₃, 19, 4, 12; 1999 VX₄₃, 20, 4, 12; 1999 VB₄₄, 30, 3, 3; 1999 VG₄₄, 5, 1, 0; 1999 VH₄₄, 35, 6, 14; 1999 VK₄₄, 8, 2, 32; 1999 VN₄₄, 10, 2, 12; 1999 VS₄₄, 10, 2, 32; 1999 VV₄₄, 10, 2, 11; 1999 VX₄₄, 14, 3, 9; 1999 VY₄₄, 9, 2, 32; 1999 VB₄₅, 8, 2, 32; 1999 VD₄₅, 10, 2, 11; 1999 VF₄₅, 9, 2, 32; 1999 VJ₄₅, 10, 2, 29; 1999 VN₄₅, 10, 2, 12; 1999 VP₄₅, 5, 1, 0; 1999 VR₄₅, 24, 5, 14; 1999 VS₄₅, 10, 2, 1; 1999 VT₄₅, 5, 1, 0; 1999 VE₄₇, 9, 2, 3; 1999 VF₄₇, 15, 3, 3; 1999 VN₄₇, 5, 1, 0; 1999 VQ₄₇, 5, 1, 0; 1999 VS₄₇, 9, 2, 64; 1999 VT₄₇, 19, 4, 137; 1999 VU₄₇, 5, 1, 0; 1999 VV₄₇, 4, 1, 0; 1999 VE₄₈, 15, 3, 8; 1999 VH₄₈, 5, 1, 0; 1999 VN₄₈, 10, 2, 10; 1999 VQ₄₈, 9, 2, 10; 1999 VT₄₈, 10, 2, 1; 1999 VU₄₈, 14, 3, 3; 1999 VV₄₈, 10, 2, 1; 1999 VY₄₈, 10, 2, 1; 1999 VB₄₉, 12, 3, 10; 1999 VC₄₉, 10, 2, 1; 1999 VE₄₉, 5, 1, 0; 1999 VH₄₉, 13, 3, 3; 1999 VK₄₉, 26, 5, 15; 1999 VL₄₉, 25, 5, 14; 1999 VM₄₉, 7, 2, 3; 1999 VR₄₉, 5, 1, 0; 1999 VS₄₉, 3, 1, 0; 1999 VX₄₉, 4, 1, 0; 1999 VB₅₀, 10, 2, 10; 1999 VC₅₀, 5, 1, 0; 1999 VD₅₀, 19, 4, 10; 1999 VE₅₀, 9, 2, 2; 1999 VF₅₀, 14, 3, 3; 1999 VG₅₀, 5, 1, 0; 1999 VH₅₀, 10, 2, 10; 1999 VN₅₀, 11, 3, 25; 1999 VO₅₀, 4, 1, 0; 1999 VR₅₀, 10, 2, 7; 1999 VS₅₀, 13, 3, 22; 1999 VT₅₀, 3, 1, 0; 1999 VU₅₀, 25, 4, 10; 1999 VV₅₀, 5, 1, 0; 1999 VW₅₀, 5, 1, 0; 1999 VX₅₀, 5, 1, 0; 1999 VM₅₁, 13, 3, 10; 1999 VP₅₁, 23, 5, 10; 1999 VK₅₂, 5, 1, 0; 1999 VO₅₂, 14, 3, 38; 1999 VQ₅₂, 7, 2, 10; 1999 VR₅₂, 4, 1, 0; 1999 VU₅₂, 10, 2, 26; 1999 VV₅₂, 9, 2, 10; 1999 VW₅₂, 4, 1, 0; 1999 VS₅₂, 4, 1, 0; 1999 VZ₅₂, 9, 2, 10; 1999 VA₅₃, 3, 1, 0; 1999 VB₅₃, 10, 2, 9; 1999 VF₅₃, 9, 2, 1403; 1999 VJ₅₃, 5, 1, 0; 1999 VL₅₃, 3, 1, 0; 1999 VN₅₃, 10, 2, 5; 1999 VO₅₃, 10, 2, 5; 1999 VR₅₃, 10, 2, 5; 1999 VS₅₃, 19, 4, 14; 1999 VW₅₃, 17, 4, 30; 1999 VG₅₄, 10, 2, 22; 1999 VH₅₄, 8, 2, 5; 1999 VM₅₄, 8, 2, 5; 1999 VN₅₄, 13, 3, 8; 1999 VT₅₄, 14, 3, 8; 1999 VV₅₄, 9, 2, 5; 1999 VW₅₄, 5, 1, 0; 1999 VX₅₄, 5, 1, 0; 1999 VY₅₄, 5, 1, 0; 1999 VE₅₅, 10, 2, 5; 1999 VM₅₅, 5, 1, 0; 1999 VS₅₅, 15, 3, 11; 1999 VU₅₅, 8, 2, 8; 1999 VX₅₅, 13, 3, 8; 1999 VB₅₆, 13, 3, 11; 1999 VF₅₆, 9, 2, 5; 1999 VH₅₆, 12, 3, 41; 1999 VL₅₆, 12, 3, 8; 1999 VN₅₆, 13, 3, 8; 1999 VP₅₆, 4, 1, 0; 1999 VS₅₆, 13, 3, 8; 1999 VT₅₆, 18, 4, 41; 1999 VB₅₇, 14, 3, 11; 1999 VF₅₇, 3, 1, 0; 1999 VA₅₈, 5, 1, 0; 1999 VN₅₈, 5, 1, 0; 1999 VR₅₈, 14, 3, 11; 1999 VS₅₈, 12, 3, 11; 1999 VU₅₈, 3, 1, 0; 1999 VY₅₈, 8, 2, 10; 1999 VB₅₉, 4, 1, 0; 1999 VH₅₉, 7, 2, 10; 1999 VP₅₉, 3, 1, 0; 1999 VR₅₉, 18, 4, 27; 1999 VS₅₉, 12, 3, 11; 1999 VV₅₉, 18, 4, 14; 1999 VA₆₀, 14, 3, 9; 1999 VB₆₀, 11, 3, 11; 1999 VC₆₀, 15, 3, 11; 1999 VD₆₀, 9, 2, 11; 1999 VO₆₀, 15, 3, 11; 1999 VP₆₀, 10, 2, 1; 1999 VU₆₀, 9, 2, 5; 1999 VY₆₀, 13, 3, 8; 1999 VF₆₁, 14, 3, 5; 1999 VN₆₁, 17, 4, 11; 1999 VP₆₁, 24, 5, 38; 1999 VS₆₁, 15, 3, 11; 1999 VV₆₁, 4, 1, 0; 1999 VY₆₁, 10, 2, 11; 1999 VA₆₂, 10, 3, 11; 1999 VB₆₂, 10, 2, 2; 1999 VH₆₂, 7, 2, 11; 1999 VJ₆₂, 13, 3, 14; 1999 VK₆₂, 5, 1, 0; 1999 VL₆₂, 8, 2, 11; 1999 VR₆₂, 23, 5, 14; 1999 VV₆₂, 9, 2, 5; 1999 VX₆₂, 18, 4, 27; 1999 VY₆₂, 12, 3, 8; 1999 VE₆₃, 14, 3, 11; 1999 VL₆₃, 19, 4, 10; 1999 VM₆₃, 18, 4, 8; 1999 VB₆₄, 10, 2, 11; 1999 VD₆₄, 13, 3, 27; 1999 VH₆₄, 12, 3, 11; 1999 VQ₆₄, 5, 1, 0; 1999 VF₆₅, 11, 3, 11; 1999 VG₆₅, 14, 3, 11; 1999 VT₆₅, 10, 2, 11; 1999 VX₆₅, 14, 3, 11; 1999 VD₆₆, 10, 2, 11; 1999 VG₆₆, 14, 3, 11; 1999 VY₆₆, 12, 3, 11; 1999 VQ₆₇, 4, 1, 0; 1999 VV₆₇, 3, 1, 0; 1999 VW₆₇, 4, 1, 0; 1999 VD₆₈, 13, 3, 10; 1999 VF₆₈, 5, 1, 0; 1999 VG₆₈, 5, 1, 0; 1999 VJ₆₈, 4, 1, 0; 1999 VO₆₈, 8, 2, 11; 1999 VQ₆₈, 3, 1, 0; 1999 VS₆₈, 5, 1, 0; 1999 VB₆₉, 12, 3, 11; 1999 VL₇₀, 8, 2, 11; 1999 VB₇₁, 3, 1, 0; 1999 VJ₇₁, 7, 2, 6; 1999 VN₇₁, 5, 1, 0; 1999 VY₇₁, 12, 3, 84; 1999 VC₇₂, 4, 1, 0; 1999 VJ₇₂, 5, 1, 0; 1999 VK₇₂, 3, 1, 0; 1999 VL₇₂, 10, 2, 10; 1999 VN₇₂, 19, 5, 30; 1999 VX₇₂, 18, 4, 10; 1999 VX₇₃, 38, 4, 30; 1999 VK₇₇, 5, 1, 0; 1999 VP₇₇, 19, 4, 24; 1999 VU₇₇, 10, 2, 10; 1999 VZ₇₇, 5, 1, 0; 1999 VB₇₈, 15, 2, 1; 1999 VE₇₈, 8, 2, 11; 1999 VR₇₈, 24, 5, 30; 1999 VU₇₈, 20, 4, 30; 1999 VH₇₉, 18, 4, 25; 1999 VL₇₉, 5, 1, 0; 1999 VS₇₉, 4, 1, 0; 1999 VB₈₀, 5, 1, 0; 1999 VO₈₀, 12, 3, 48; 1999 VB₈₁, 18, 2, 38; 1999 VD₈₁, 10, 2, 38; 1999 VG₈₁, 10, 2, 38; 1999 VH₈₁, 8, 2, 38; 1999 VJ₈₁, 5, 1, 0; 1999 VP₈₁, 20, 4, 12; 1999 VQ₈₁, 20, 4, 12; 1999 VS₈₁, 20, 4, 12; 1999 VU₈₁, 20, 4, 12; 1999 VP₈₂, 5, 1, 0; 1999 VW₈₃, 13, 3, 11; 1999 VK₈₅, 5, 1, 0; 1999 VT₈₅, 19, 4, 11; 1999 VV₈₅, 15, 3, 11; 1999 VX₈₅, 12, 3, 11; 1999 VA₈₆, 10, 2, 5; 1999 VS₈₆, 5, 1, 0; 1999 VV₈₆, 5, 1, 0; 1999 VF₈₇, 15, 3, 21; 1999 VH₈₇, 10, 2, 130; 1999 VK₈₇, 5, 1, 0; 1999 VL₈₇, 18, 4, 15; 1999 VM₈₇, 15, 3, 10; 1999 VO₈₇, 5, 1, 0; 1999 VP₈₇, 15, 3, 12; 1999 VQ₈₇, 10, 2, 12; 1999 VT₈₇, 10, 2, 10; 1999 VZ₈₇, 5, 1, 0; 1999 VP₈₉, 14, 3, 41; 1999 VQ₈₉, 9, 2, 5; 1999 VS₈₉, 14, 3, 38; 1999 VD₉₀, 20, 4, 12; 1999 VP₉₀, 19, 4, 41; 1999 VK₉₁, 9, 2, 5; 1999 VH₉₆, 9, 2, 5; 1999 VD₉₇, 23, 5, 41; 1999 VP₁₀₆, 4, 1, 0; 1999 VL₁₁₁, 4, 1, 0; 1999 VL₁₁₂, 5, 1, 0; 1999 VS₁₁₂, 5, 1, 0;

1999 VU₁₁₂, 3, 1, 0; 1999 VN₁₁₃, 14, 3, 9; 1999 VP₁₁₃, 3, 1, 0; 1999 VZ₁₁₃, 5, 1, 0; 1999 VA₁₁₄, 10, 2, 31; 1999 VE₁₁₄, 10, 1, 0; 1999 VG₁₁₄, 10, 2, 1; 1999 VH₁₁₄, 5, 1, 0; 1999 VJ₁₁₄, 10, 2, 111; 1999 VK₁₁₄, 5, 1, 0; 1999 VM₁₁₄, 18, 4, 120; 1999 VP₁₁₄, 5, 1, 0; 1999 VR₁₁₄, 15, 3, 95; 1999 VS₁₁₄, 9, 2, 1; 1999 VT₁₁₄, 13, 3, 82; 1999 VV₁₁₄, 5, 1, 0; 1999 VX₁₁₄, 4, 1, 0; 1999 VZ₁₁₄, 5, 1, 0; 1999 VH₁₁₅, 5, 1, 0; 1999 VC₁₂₃, 3, 1, 0; 1999 VR₁₂₉, 12, 3, 11; 1999 VL₁₃₀, 5, 1, 0; 1999 VA₁₃₁, 8, 2, 7; 1999 VN₁₃₄, 3, 1, 0; 1999 VH₁₃₅, 14, 3, 12; 1999 VJ₁₃₅, 10, 2, 10; 1999 VK₁₃₅, 17, 4, 12; 1999 VL₁₃₅, 10, 2, 10; 1999 VM₁₃₅, 15, 3, 38; 1999 VR₁₃₅, 15, 3, 10; 1999 VY₁₃₇, 4, 1, 0; 1999 VD₁₃₈, 5, 1, 0; 1999 VG₁₃₉, 9, 2, 5; 1999 VW₁₄₀, 3, 1, 0; 1999 VG₁₄₁, 4, 1, 0; 1999 VP₁₄₃, 3, 1, 0; 1999 VS₁₄₃, 4, 1, 0; 1999 VU₁₄₃, 24, 6, 65; 1999 VB₁₄₄, 21, 5, 15; 1999 VJ₁₄₄, 14, 3, 10; 1999 VM₁₄₄, 4, 1, 0; 1999 VG₁₄₅, 4, 1, 0; 1999 VJ₁₄₅, 19, 4, 13; 1999 VQ₁₄₈, 20, 4, 65; 1999 VA₁₅₀, 10, 2, 62; 1999 VF₁₅₀, 17, 4, 25; 1999 VH₁₅₀, 5, 1, 0; 1999 VO₁₅₁, 4, 1, 0; 1999 VY₁₅₃, 19, 4, 11; 1999 VA₁₅₆, 5, 1, 0; 1999 VF₁₅₇, 5, 1, 0; 1999 VG₁₅₇, 18, 4, 137; 1999 VR₁₅₇, 9, 2, 16; 1999 VA₁₅₈, 5, 1, 0; 1999 VS₁₅₈, 14, 3, 65; 1999 VJ₁₅₉, 5, 1, 0; 1999 VL₁₅₉, 13, 3, 65; 1999 VJ₁₆₀, 27, 6, 57; 1999 VX₁₆₁, 5, 1, 0; 1999 VV₁₆₂, 5, 1, 0; 1999 VD₁₆₅, 10, 2, 35; 1999 VB₁₆₆, 9, 2, 33; 1999 VC₁₆₆, 5, 1, 0; 1999 WB, 10, 2, 10; 1999 WE, 10, 2, 2; 1999 WG, 3, 1, 0; 1999 WN, 5, 1, 0; 1999 WP, 5, 1, 0; 1999 WQ, 5, 1, 0; 1999 WR, 13, 3, 11; 1999 WS, 6, 2, 10; 1999 WT, 10, 2, 6; 1999 WV, 9, 2, 2; 1999 WA₁, 9, 2, 10; 1999 WC₁, 5, 1, 0; 1999 WF₁, 10, 2, 18; 1999 WM₁, 4, 1, 0; 1999 WP₁, 13, 3, 10; 1999 WR₁, 8, 2, 3; 1999 WT₁, 9, 2, 5; 1999 WV₁, 9, 2, 5; 1999 WY₁, 4, 1, 0; 1999 WZ₁, 15, 2, 2; 1999 WG₂, 9, 2, 2; 1999 WK₂, 9, 2, 5; 1999 WM₂, 7, 2, 12; 1999 WP₂, 12, 3, 11; 1999 WQ₂, 5, 1, 0; 1999 WV₂, 4, 1, 0; 1999 WY₂, 5, 1, 0; 1999 WA₃, 3, 1, 0; 1999 WH₃, 9, 2, 3; 1999 WK₃, 9, 2, 10; 1999 WL₃, 10, 2, 11; 1999 WO₃, 10, 2, 421; 1999 WQ₃, 4, 1, 0; 1999 WR₃, 3, 1, 0; 1999 WS₃, 8, 2, 10; 1999 WT₃, 5, 1, 0; 1999 WU₃, 4, 1, 0; 1999 WV₃, 5, 1, 0; 1999 WW₃, 10, 2, 11; 1999 WX₃, 8, 2, 10; 1999 WY₃, 19, 4, 492; 1999 WB₄, 5, 1, 0; 1999 WC₄, 5, 1, 0; 1999 WE₄, 13, 3, 11; 1999 WL₄, 4, 1, 0; 1999 WM₄, 4, 1, 0; 1999 WO₄, 9, 2, 11; 1999 WP₄, 10, 2, 11; 1999 WW₄, 5, 1, 0; 1999 WX₄, 5, 1, 0; 1999 WZ₄, 4, 1, 0; 1999 WA₅, 3, 1, 0; 1999 WT₅, 3, 1, 0; 1999 WY₅, 4, 1, 0; 1999 WA₆, 15, 3, 10; 1999 WC₆, 5, 1, 0; 1999 WE₆, 5, 1, 0; 1999 WH₆, 5, 1, 0; 1999 WK₆, 4, 1, 0; 1999 WA₇, 4, 1, 0; 1999 WE₇, 3, 1, 0; 1999 WT₇, 8, 2, 2; 1999 WU₇, 8, 2, 11; 1999 WW₇, 27, 6, 924; 1999 WX₇, 10, 2, 164; 1999 WY₇, 15, 3, 174; 1999 WA₈, 5, 1, 0; 1999 WE₈, 4, 1, 0; 1999 WG₈, 10, 2, 11; 1999 WM₈, 14, 3, 10; 1999 WO₈, 14, 3, 11; 1999 WT₈, 5, 1, 0; 1999 WU₈, 4, 1, 0; 1999 WV₈, 5, 1, 0; 1999 WZ₈, 3, 1, 0; 1999 WB₉, 5, 1, 0; 1999 WD₉, 9, 2, 6; 1999 WF₉, 5, 1, 0; 1999 WG₉, 5, 1, 0; 1999 WH₉, 14, 3, 12; 1999 WL₉, 9, 2, 6; 1999 WQ₉, 18, 4, 594; 1999 WR₉, 5, 1, 0; 1999 WS₉, 10, 2, 10; 1999 WV₉, 13, 3, 173; 1999 WW₉, 5, 1, 0; 1999 WX₉, 5, 1, 0; 1999 WY₉, 13, 3, 168; 1999 WA₁₀, 5, 1, 0; 1999 WB₁₀, 4, 1, 0; 1999 WC₁₀, 4, 1, 0; 1999 WD₁₀, 3, 1, 0; 1999 WE₁₀, 3, 1, 0; 1999 WJ₁₀, 7, 2, 5; 1999 WZ₁₀, 9, 2, 11; 1999 WB₁₁, 4, 1, 0; 1999 WL₁₁, 5, 1, 0; 1999 WP₁₁, 5, 1, 0; 1999 WQ₁₁, 5, 1, 0; 1999 WS₁₁, 25, 5, 30; 1999 WT₁₁, 9, 2, 29; 1999 WR₁₂, 8, 2, 39; 1999 WL₁₃, 4, 1, 0; 1999 WN₁₃, 9, 2, 11; 1999 WP₁₃, 8, 2, 10; 1999 WR₁₃, 5, 1, 0; 1999 WS₁₃, 10, 2, 29; 1999 WZ₁₄, 16, 3, 30; 1999 WA₁₅, 14, 3, 8; 1999 WB₁₅, 8, 2, 26; 1999 WL₁₆, 9, 2, 11; 1999 WT₁₆, 20, 4, 30; 1999 WV₁₆, 9, 2, 10; 1999 VF₁₇, 27, 6, 30; 1999 WJ₁₇, 9, 2, 16; 1999 WM₁₇, 5, 1, 0; 1999 WV₁₇, 5, 1, 0; 1999 WA₁₈, 3, 1, 0; 1999 WG₁₈, 5, 1, 0; 1999 WJ₁₈, 5, 1, 0; 1999 XM₁, 14, 3, 11; 1999 XU₁, 5, 1, 0; 1999 XW, 12, 3, 330; 1999 XY, 4, 1, 0; 1999 XZ, 14, 3, 424; 1999 XA₁, 3, 1, 0; 1999 XB₁, 8, 2, 11; 1999 XE₁, 9, 2, 11; 1999 XF₁, 13, 3, 175; 1999 XG₁, 5, 1, 0; 1999 XK₁, 10, 2, 11; 1999 XT₁, 17, 4, 25; 1999 XU₁, 12, 2, 11; 1999 XX₁, 4, 1, 0; 1999 XY₁, 3, 1, 0; 1999 XZ₁, 5, 1, 0; 1999 XA₂, 10, 2, 28; 1999 XB₂, 5, 1, 0; 1999 XF₂, 5, 1, 0; 1999 XG₂, 4, 1, 0; 1999 XH₂, 20, 4, 30; 1999 XR

2000 APR. 18

M.P.C. 39765

18, 4, 30; 1999 XL₁₈, 20, 4, 30; 1999 XM₁₈, 20, 4, 30; 1999 XO₁₈, 10, 2, 1; 1999 XR₁₈, 10, 2, 29; 1999 XT₁₈, 24, 5, 30; 1999 XV₁₈, 20, 4, 8; 1999 XX₁₈, 20, 4, 8; 1999 XB₁₉, 3, 1, 0; 1999 XD₁₉, 15, 3, 31; 1999 XE₁₉, 10, 2, 18; 1999 XK₁₉, 29, 5, 30; 1999 XM₁₉, 9, 2, 30; 1999 XN₁₉, 20, 4, 30; 1999 XP₁₉, 19, 4, 30; 1999 XR₁₉, 29, 5, 12; 1999 XS₁₉, 12, 3, 8; 1999 XT₁₉, 10, 2, 3; 1999 XU₁₉, 25, 5, 12; 1999 XV₁₉, 5, 1, 0; 1999 XX₁₉, 3, 1, 0; 1999 XZ₁₉, 5, 1, 0; 1999 XB₂₀, 10, 2, 10; 1999 XE₂₀, 10, 2, 38; 1999 XF₂₀, 19, 4, 38; 1999 XL₂₀, 13, 3, 8; 1999 XM₂₀, 12, 2, 5; 1999 XN₂₀, 4, 1, 0; 1999 XP₂₀, 18, 4, 41; 1999 XS₂₀, 13, 3, 41; 1999 XW₂₀, 18, 4, 30; 1999 XY₂₀, 12, 3, 30; 1999 XB₂₁, 9, 2, 5; 1999 XC₂₁, 24, 5, 9; 1999 XJ₂₁, 10, 2, 5; 1999 XQ₂₁, 4, 1, 0; 1999 XV₂₁, 3, 1, 0; 1999 XX₂₁, 16, 4, 56; 1999 XZ₂₁, 3, 1, 0; 1999 XA₂₂, 8, 2, 1; 1999 XD₂₂, 4, 1, 0; 1999 XJ₂₂, 13, 3, 11; 1999 XK₂₂, 5, 1, 0; 1999 XL₂₂, 9, 2, 5; 1999 XP₂₂, 12, 3, 4; 1999 XT₂₂, 9, 2, 5; 1999 XU₂₂, 5, 1, 0; 1999 XV₂₃, 5, 1, 0; 1999 XG₂₃, 15, 3, 8; 1999 XJ₂₃, 10, 1, 0; 1999 XM₂₃, 9, 2, 5; 1999 XN₂₃, 10, 2, 5; 1999 XU₂₃, 18, 4, 14; 1999 XV₂₃, 23, 5, 14; 1999 XW₂₃, 19, 4, 15; 1999 XX₂₃, 13, 3, 15; 1999 XY₂₃, 14, 3, 10; 1999 XZ₂₃, 13, 3, 14; 1999 XA₂₄, 22, 5, 15; 1999 XB₂₄, 16, 4, 15; 1999 XH₂₄, 15, 3, 9; 1999 XL₂₄, 23, 4, 10; 1999 XP₂₄, 5, 1, 0; 1999 XQ₂₄, 5, 1, 0; 1999 XS₂₄, 13, 3, 11; 1999 XT₂₄, 10, 2, 5; 1999 XU₂₄, 5, 1, 0; 1999 XW₂₄, 7, 2, 5; 1999 XY₂₄, 10, 2, 1; 1999 XZ₂₄, 10, 2, 1; 1999 XA₂₅, 19, 4, 14; 1999 XB₂₅, 5, 1, 0; 1999 XC₂₅, 5, 1, 0; 1999 XD₂₅, 5, 1, 0; 1999 XG₂₅, 4, 1, 0; 1999 XH₂₅, 10, 2, 6; 1999 XJ₂₅, 5, 1, 0; 1999 XK₂₅, 5, 1, 0; 1999 XM₂₅, 4, 1, 0; 1999 XS₂₅, 13, 3, 11; 1999 XT₂₅, 9, 2, 6; 1999 XC₂₆, 5, 1, 0; 1999 XD₂₆, 17, 4, 8; 1999 XE₂₆, 15, 3, 10; 1999 XG₂₆, 15, 3, 15; 1999 XH₂₆, 17, 4, 14; 1999 XK₂₆, 24, 5, 27; 1999 XL₂₆, 22, 4, 41; 1999 XN₂₆, 8, 2, 11; 1999 XU₂₆, 8, 2, 38; 1999 XY₂₆, 14, 3, 38; 1999 XZ₂₆, 14, 3, 11; 1999 XC₂₇, 13, 3, 11; 1999 XE₂₇, 8, 2, 3; 1999 XH₂₇, 5, 1, 0; 1999 XJ₂₇, 3, 1, 0; 1999 XM₂₇, 5, 1, 0; 1999 XP₂₇, 4, 1, 0; 1999 XR₂₇, 10, 2, 27; 1999 XT₂₇, 10, 2, 11; 1999 XW₂₇, 3, 1, 0; 1999 XZ₂₇, 10, 2, 11; 1999 XD₂₈, 4, 1, 0; 1999 XL₂₈, 4, 1, 0; 1999 XN₂₈, 5, 1, 0; 1999 XP₂₈, 4, 1, 0; 1999 XS₂₈, 3, 1, 0; 1999 XW₂₈, 3, 1, 0; 1999 XC₂₉, 3, 1, 0; 1999 XD₂₉, 4, 1, 0; 1999 XG₂₉, 5, 1, 0; 1999 XH₂₉, 4, 1, 0; 1999 XL₂₉, 5, 1, 0; 1999 XQ₂₉, 5, 1, 0; 1999 XR₂₉, 4, 1, 0; 1999 XS₂₉, 5, 1, 0; 1999 XT₂₉, 10, 2, 11; 1999 XF₃₀, 5, 1, 0; 1999 XM₃₀, 5, 1, 0; 1999 XO₃₀, 5, 1, 0; 1999 XT₃₀, 4, 1, 0; 1999 XW₃₀, 8, 2, 36; 1999 XG₃₁, 10, 2, 169; 1999 XJ₃₁, 4, 1, 0; 1999 XL₃₁, 3, 1, 0; 1999 XO₃₁, 17, 4, 175; 1999 XP₃₁, 13, 3, 175; 1999 XR₃₁, 7, 2, 175; 1999 XT₃₁, 3, 1, 0; 1999 XU₃₁, 3, 1, 0; 1999 XX₃₁, 10, 2, 137; 1999 XY₃₁, 5, 1, 0; 1999 XA₃₂, 5, 1, 0; 1999 XC₃₂, 4, 1, 0; 1999 XD₃₂, 5, 1, 0; 1999 XF₃₂, 4, 1, 0; 1999 XM₃₂, 4, 1, 0; 1999 XN₃₂, 8, 2, 1; 1999 XQ₃₂, 4, 1, 0; 1999 XT₃₂, 7, 2, 51; 1999 XV₃₂, 5, 1, 0; 1999 XW₃₂, 5, 1, 0; 1999 XX₃₂, 14, 4, 165; 1999 XY₃₂, 8, 2, 51; 1999 XA₃₃, 7, 2, 51; 1999 XB₃₃, 17, 3, 164; 1999 XC₃₃, 3, 1, 0; 1999 XE₃₃, 5, 1, 0; 1999 XG₃₃, 18, 4, 171; 1999 XH₃₃, 3, 1, 0; 1999 XJ₃₃, 20, 5, 170; 1999 XL₃₃, 5, 1, 0; 1999 XN₃₃, 13, 3, 430; 1999 XO₃₃, 4, 1, 0; 1999 XP₃₃, 5, 1, 0; 1999 XQ₃₃, 5, 1, 0; 1999 XZ₃₃, 5, 1, 0; 1999 XA₃₄, 5, 1, 0; 1999 XB₃₄, 5, 1, 0; 1999 XD₃₄, 4, 1, 0; 1999 XJ₃₄, 4, 1, 0; 1999 XK₃₄, 4, 1, 0; 1999 XN₃₄, 7, 2, 166; 1999 XP₃₄, 5, 1, 0; 1999 XR₃₄, 4, 1, 0; 1999 XT₃₄, 13, 3, 56; 1999 XA₃₅, 5, 1, 0; 1999 XB₃₅, 4, 1, 0; 1999 XL₃₅, 15, 3, 38; 1999 XQ₃₅, 9, 2, 20; 1999 XW₃₅, 18, 4, 169; 1999 XY₃₅, 4, 1, 0; 1999 XZ₃₅, 4, 1, 0; 1999 XC₃₆, 8, 2, 38; 1999 XD₃₆, 12, 3, 173; 1999 XE₃₆, 10, 2, 8; 1999 XM₃₆, 14, 3, 15; 1999 XN₃₆, 10, 2, 1; 1999 XO₃₆, 13, 3, 3; 1999 XP₃₆, 15, 3, 6; 1999 XQ₃₆, 15, 3, 6; 1999 XR₃₆, 9, 2, 1; 1999 XS₃₆, 10, 2, 1; 1999 XT₃₆, 10, 2, 1; 1999 XV₃₆, 13, 3, 6; 1999 XW₃₆, 8, 2, 1; 1999 XA₃₇, 5, 1, 0; 1999 XC₃₇, 5, 1, 0; 1999 XD₃₇, 4, 1, 0; 1999 XF₃₇, 5, 1, 0; 1999 XG₃₇, 10, 2, 18; 1999 XH₃₇, 8, 2, 28; 1999 XJ₃₇, 5, 1, 0; 1999 XK₃₇, 5, 1, 0; 1999 XL₃₇, 5, 1, 0; 1999 XN₃₇, 5, 1, 0; 1999 XP₃₇, 4, 1, 0; 1999 XV₃₇, 8, 2, 3; 1999 XZ₃₇, 10, 2, 12; 1999 XE₃₈, 10, 2, 2; 1999 XF₃₈, 9, 2, 2; 1999 XL₃₈, 24, 5, 70; 1999 XO₃₈, 4, 1, 0; 1999 XP₃₈, 5, 1, 0; 1999 XV₃₈, 5, 1, 0; 1999 XA₃₉, 9, 2, 139; 1999 XB₃₉, 5, 1, 0; 1999 XD₃₉, 8, 2, 11; 1999 XG₃₉, 9, 2, 6; 1999 XK₃₉, 5, 1, 0; 1999 XL₃₉, 5, 1, 0; 1999 XN₃₉, 3, 1, 0; 1999 XQ₃₉, 13, 3, 10; 1999 XA₄₀, 9, 2, 11; 1999 XB₄₀, 10, 2, 11; 1999 XG₄₀, 15, 3, 10; 1999 XL₄₀, 5, 1, 0; 1999 XN₄₀, 9, 2, 10; 1999 XO₄₀, 4, 1, 0; 1999 XV₄₀, 10, 2, 1; 1999 XB₄₁, 5, 1, 0; 1999 XE₄₁, 27, 6, 15; 1999 XV₄₁, 5, 1, 0; 1999 XW₄₁, 12, 3, 9; 1999 XY₄₁, 10, 2, 10; 1999 XZ₄₁, 14, 3, 3; 1999 XD₄₂, 5, 1, 0; 1999 XH₄₂, 9, 3, 9; 1999 XN₄₂, 6, 2, 10; 1999 XO₄₂, 5, 1, 0; 1999 XP₄₂, 5, 1, 0; 1999 XU₄₂, 20, 4, 10; 1999 XV₄₂, 4, 1, 0; 1999 XX₄₂, 17, 4, 10; 1999 XB₄₃, 5, 1, 0; 1999 XD₄₃, 10, 2, 1; 1999 XF₄₃, 3, 1, 0; 1999 XO₄₃, 5, 1, 0; 1999 XQ₄₃, 17, 4, 10; 1999 XU₄₃, 19, 4, 10; 1999 XD₄₄, 10, 2, 12; 1999 XE₄₄, 15, 2, 2; 1999 XF₄₄, 8, 2, 10; 1999 XG₄₄, 4, 1, 0; 1999 XL₄₄, 5, 1, 0; 1999 XV₄₄, 14, 3, 22; 1999 XB₄₅, 8, 2, 25; 1999 XF₄₅, 14, 3, 11; 1999 XJ₄₅, 5, 1, 0; 1999 XL₄₅, 15, 4, 38; 1999 XM₄₅, 9, 2, 6; 1999 XP₄₅, 9, 2, 1; 1999 XT₄₅, 9, 2, 10; 1999 XA₄₆, 23, 4, 25; 1999 XO₄₆, 5, 1, 0; 1999 XQ₄₆, 5, 1, 0; 1999 XY₄₆, 5, 1, 0; 1999 XB₄₇, 3, 1, 0; 1999 XH₄₇, 5, 1, 0; 1999 XL₄₇, 5, 1, 0; 1999 XR₄₇, 4, 1, 0; 1999 XZ₄₈, 14, 3, 11; 1999 XA₄₉, 5, 1, 0; 1999 XB₄₉, 5, 1, 0; 1999 XF₄₉, 4, 1, 0; 1999 XL₄₉, 4, 1, 0; 1999 XT₅₀, 5, 1, 0; 1999 XJ₅₁, 5, 1, 0; 1999 XP₅₁, 5, 1, 0; 1999 XD₅₂, 3, 1, 0; 1999 XM₅₂, 5, 1, 0; 1999 XD₅₃, 5, 1, 0; 1999 XF₅₃, 4, 1, 0; 1999 XS₅₃, 3, 1, 0; 1999 XE₅₄, 5, 1, 0; 1999 XG₅₄, 5, 1, 0; 1999 XH₅₅, 5, 1, 0; 1999 XH₅₆, 12, 3, 38; 1999 XQ₅₆, 9, 2, 443; 1999 XQ₅₇, 3, 1, 0; 1999 XG₅₈, 4, 1, 0; 1999 XT₅₈, 5, 1, 0; 1999 XD₅₉, 8, 2, 27; 1999 XT₅₉, 10, 2, 27; 1999 XJ₆₀, 7, 2, 38; 1999 XQ₆₀, 5, 1, 0; 1999 XR₆₀, 4, 1, 0; 1999 XS₆₀, 3, 1, 0; 1999 XT₆₀, 5, 1, 0; 1999 XV₆₀, 3, 1, 0; 1999 XZ₆₀, 4, 1, 0; 1999 XA₆₁, 15, 3, 38; 1999 XF₆₁, 9, 2, 38; 1999 XK₆₁, 4, 1, 0; 1999 XO₆₁, 5, 1, 0; 1999 XQ₆₁, 5, 1, 0; 1999 XZ₆₁, 5, 1, 0; 1999 XG₆₄, 3, 1, 0; 1999 XR₆₄, 4, 1, 0; 1999 XU₆₄, 5, 1, 0; 1999 XX₆₅, 4, 1, 0; 1999 XZ₆₆, 4, 1, 0; 1999 XJ₆₆, 3, 1, 0; 1999 XK₆₈, 4, 1, 0; 1999 XN₆₈, 7, 2, 36; 1999 XU₆₈, 25, 5, 38; 1999 XZ₆₈, 10, 2, 2; 1999 XN₇₀, 3, 1, 0; 1999 XO₇₀, 6, 2, 36; 1999 XR₇₀, 4, 1, 0; 1999 XU₇₀, 4, 1, 0; 1999 XF₇₁, 9, 2, 38; 1999 XK₇₁, 3, 1,

0; 1999 XS₇₁, 5, 1, 0; 1999 XU₇₁, 4, 1, 0; 1999 XE₇₂, 9, 2, 38; 1999 XH₇₂, 28, 6, 84; 1999 XJ₇₂, 4, 1, 0; 1999 XP₇₂, 10, 2, 2; 1999 XS₇₂, 4, 1, 0; 1999 XZ₇₂, 8, 2, 9; 1999 XO₇₃, 9, 2, 38; 1999 XV₇₃, 5, 1, 0; 1999 XY₇₃, 15, 3, 36; 1999 XZ₇₃, 11, 3, 10; 1999 XG₇₄, 20, 3, 36; 1999 XR₇₄, 13, 3, 36; 1999 XW₇₄, 9, 2, 34; 1999 XJ₇₅, 10, 2, 36; 1999 XU₇₅, 19, 4, 38; 1999 XX₇₅, 4, 1, 0; 1999 XY₇₅, 5, 1, 0; 1999 XR₇₆, 9, 2, 2; 1999 XU₇₇, 14, 3, 38; 1999 XB₇₈, 10, 2, 2; 1999 XE₇₈, 5, 1, 0; 1999 XJ₇₈, 3, 1, 0; 1999 XR₈₁, 15, 3, 38; 1999 XS₈₂, 12, 3, 38; 1999 XT₈₂, 4, 1, 0; 1999 XU₈₂, 19, 4, 506; 1999 XX₈₂, 9, 2, 10; 1999 XD₈₃, 4, 1, 0; 1999 XG₈₃, 15, 3, 38; 1999 XK₈₃, 13, 3, 173; 1999 XQ₈₃, 3, 1, 0; 1999 XU₈₃, 5, 1, 0; 1999 XC₈₄, 3, 1, 0; 1999 XH₈₄, 9, 3, 38; 1999 XJ₈₄, 4, 1, 0; 1999 XK₈₄, 3, 1, 0; 1999 XM₈₄, 5, 1, 0; 1999 XN₈₄, 8, 2, 26; 1999 XO₈₄, 9, 2, 26; 1999 XS₈₄, 5, 1, 0; 1999 XX₈₄, 4, 1, 0; 1999 XE₈₅, 3, 1, 0; 1999 XF₈₅, 4, 1, 0; 1999 XG₈₅, 10, 2, 165; 1999 XN₈₅, 8, 2, 12; 1999 XQ₈₅, 5, 1, 0; 1999 XR₈₅, 6, 2, 165; 1999 XS₈₅, 12, 3, 175; 1999 XA₈₆, 5, 1, 0; 1999 XC₈₆, 5, 1, 0; 1999 XK₈₆, 8, 2, 174; 1999 XO₈₆, 12, 3, 958; 1999 XQ₈₆, 15, 3, 175; 1999 XS₈₆, 9, 2, 163; 1999 XU₈₆, 12, 3, 175; 1999 XV₈₆, 33, 5, 175; 1999 XW₈₆, 4, 1, 0; 1999 XX₈₆, 10, 2, 9; 1999 XY₈₆, 5, 1, 0; 1999 XZ₈₆, 9, 2, 173; 1999 XA₈₇, 18, 4, 114; 1999 XC₈₇, 12, 3, 175; 1999 XN₈₇, 5, 1, 0; 1999 XO₈₇, 8, 2, 26; 1999 XY₈₇, 4, 1, 0; 1999 XA₈₈, 14, 3, 175; 1999 XC₈₈, 9, 2, 10; 1999 XR₈₈, 7, 2, 10; 1999 XO₈₉, 4, 1, 0; 1999 XJ₉₀, 8, 2, 173; 1999 XM₉₀, 5, 1, 0; 1999 XS₉₀, 4, 1, 0; 1999 XT₉₀, 10, 2, 26; 1999 XF₉₁, 5, 1, 0; 1999 XG₉₁, 3, 1, 0; 1999 XJ₉₁, 4, 1, 0; 1999 XQ₉₁, 8, 2, 11; 1999 XR₉₁, 3, 1, 0; 1999 XE₉₃, 9, 2, 10; 1999 XG₉₃, 17, 4, 175; 1999 XH₉₃, 3, 1, 0; 1999 XJ₉₃, 8, 2, 52; 1999 XK₉₃, 6, 2, 11; 1999 XL₉₃, 5, 1, 0; 1999 XO₉₃, 5, 1, 0; 1999 XP₉₃, 17, 4, 177; 1999 XQ₉₃, 10, 2, 164; 1999 XS₉₃, 5, 1, 0; 1999 XT₉₃, 9, 2, 10; 1999 XV₉₃, 16, 4, 175; 1999 XZ₉₃, 13, 3, 175; 1999 XD₉₄, 3, 1, 0; 1999 XF₉₄, 5, 1, 0; 1999 XG₉₄, 3, 1, 0; 1999 XH₉₄, 4, 1, 0; 1999 XM₉₄, 4, 1, 0; 1999 XO₉₄, 4, 1, 0; 1999 XR₉₄, 5, 1, 0; 1999 XS₉₄, 8, 2, 169; 1999 XT₉₄, 5, 1, 0; 1999 XW₉₄, 8, 2, 6; 1999 XZ₉₄, 5, 1, 0; 1999 XA₉₅, 14, 3, 38; 1999 XB₉₅, 4, 1, 0; 1999 XD₉₅, 10, 2, 1; 1999 XM₉₅, 4, 1, 0; 1999 XR₉₅, 14, 3, 174; 1999 XS₉₅, 5, 1, 0; 1999 XT₉₅, 5, 1, 0; 1999 XZ₉₅, 5, 1, 0; 1999 XB₉₆, 4, 1, 0; 1999 XF₉₆, 5, 1, 0; 1999 XG₉₆, 4, 1, 0; 1999 XH₉₆, 10, 1, 0; 1999 XJ₉₆, 4, 1, 0; 1999 XL₉₆, 5, 1, 0; 1999 XN₉₆, 5, 1, 0; 1999 XT₉₆, 9, 2, 121; 1999 XG₉₇, 5, 1, 0; 1999 XM₉₇, 10, 2, 10; 1999 XQ₉₇, 5, 1, 0; 1999 XT₉₇, 14, 3, 10; 1999 XU₉₇, 5, 1, 0; 1999 XD₉₈, 4, 1, 0; 1999 XK₉₈, 8, 2, 174; 1999 XM₉₈, 9, 2, 10; 1999 XT₉₈, 9, 2, 1; 1999 XW₉₈, 5, 1, 0; 1999 XY₉₈, 4, 1, 0; 1999 XB₉₉, 4, 1, 0; 1999 XC₉₉, 4, 1, 0; 1999 XJ₉₉, 5, 1, 0; 1999 XL₉₉, 3, 1, 0; 1999 XU₉₉, 5, 1, 0; 1999 XZ₉₉, 3, 1, 0; 1999 XB₁₀₀, 4, 1, 0; 1999 XC₁₀₀, 11, 3, 173; 1999 XE₁₀₀, 10, 2, 100; 1999 XH₁₀₀, 5, 1, 0; 1999 XK₁₀₀, 5, 1, 0; 1999 XM₁₀₀, 18, 4, 84; 1999 XS₁₀₀, 5, 1, 0; 1999 XZ₁₀₀, 4, 1, 0; 1999 XA₁₀₁, 10, 2, 26; 1999 XD₁₀₁, 15, 3, 83; 1999 XL₁₀₁, 10, 2, 172; 1999 XW₁₀₁, 5, 1, 0; 1999 XX₁₀₁, 13, 3, 172; 1999 XY₁₀₁, 5, 1, 0; 1999 XZ₁₀₁, 4, 1, 0; 1999 XB₁₀₂, 11, 3, 10; 1999 XC₁₀₂, 10, 2, 6; 1999 XF₁₀₂, 4, 1, 0; 1999 XN₁₀₂, 9, 2, 10; 1999 XP₁₀₂, 5, 1, 0; 1999 XZ₁₀₂, 7, 2, 10; 1999 XK₁₀₃, 5, 1, 0; 1999 XP₁₀₃, 5, 1, 0; 1999 XX₁₀₃, 10, 2, 10; 1999 XY₁₀₃, 9, 2, 173; 1999 XZ₁₀₃, 5, 1, 0; 1999 XB₁₀₄, 5, 1, 0; 1999 XC₁₀₄, 5, 1, 0; 1999 XD₁₀₄, 10, 2, 51; 1999 XG₁₀₄, 14, 3, 10; 1999 XR₁₀₄, 5, 1, 0; 1999 XS₁₀₄, 5, 1, 0; 1999 XT₁₀₄, 15, 3, 174; 1999 XU₁₀₄, 5, 1, 0; 1999 XV₁₀₄, 20, 5, 164; 1999 XY₁₀₄, 29, 6, 15; 1999 XA₁₀₅, 15, 3, 28; 1999 XD₁₀₅, 15, 3, 28; 1999 XE₁₀₅, 15, 3, 28; 1999 XG₁₀₅, 25, 5, 1, 0; 1999 XH₁₀₅, 25, 5, 12; 1999 XJ₁₀₅, 4, 1, 0; 1999 XL₁₀₅, 3, 1, 0; 1999 XO₁₀₅, 5, 1, 0; 1999 XS₁₀₅, 4, 1, 0; 1999 XT₁₀₅, 4, 1, 0; 1999 XU₁₀₅, 4, 1, 0; 1999 XV₁₀₆, 13, 3, 175; 1999 XC₁₀₆, 4, 1, 0; 1999 XL₁₀₆, 10, 2, 1; 1999 XM₁₀₆, 15, 3, 10; 1999 XN₁₀₆, 10, 2, 25; 1999 XO₁₀₆, 5, 1, 0; 1999 XP₁₀₆, 19, 4, 14; 1999 XQ₁₀₆,

1999 XD₁₂₃, 5, 1, 0; 1999 XF₁₂₃, 5, 1, 0; 1999 XO₁₂₃, 5, 1, 0; 1999 XT₁₂₃, 5, 1, 0; 1999 XV₁₂₃, 5, 1, 0; 1999 XW₁₂₃, 5, 1, 0; 1999 XB₁₂₄, 9, 2, 111; 1999 XF₁₂₄, 4, 1, 0; 1999 XQ₁₂₄, 9, 2, 2; 1999 XR₁₂₄, 5, 1, 0; 1999 XX₁₂₄, 4, 1, 0; 1999 XC₁₂₅, 8, 2, 2; 1999 XD₁₂₅, 14, 3, 3; 1999 XV₁₂₅, 3, 1, 0; 1999 XY₁₂₅, 10, 2, 1; 1999 XZ₁₂₅, 19, 3, 3; 1999 XA₁₂₆, 4, 1, 0; 1999 XK₁₂₆, 14, 3, 3; 1999 XS₁₂₆, 9, 2, 10; 1999 XE₁₂₇, 14, 3, 15; 1999 XF₁₂₇, 5, 1, 0; 1999 XJ₁₂₇, 5, 1, 0; 1999 XL₁₂₇, 3, 1, 0; 1999 XU₁₂₇, 5, 1, 0; 1999 XR₁₂₇, 4, 1, 0; 1999 XT₁₂₇, 15, 3, 11; 1999 XU₁₂₇, 9, 2, 11; 1999 XW₁₂₇, 5, 1, 0; 1999 XG₁₂₉, 4, 1, 0; 1999 XL₁₃₀, 5, 1, 0; 1999 XH₁₃₂, 4, 1, 0; 1999 XQ₁₃₂, 6, 2, 62; 1999 XG₁₃₃, 4, 1, 0; 1999 XH₁₃₃, 5, 1, 0; 1999 XJ₁₃₃, 5, 1, 0; 1999 XW₁₃₃, 3, 1, 0; 1999 XB₁₃₄, 5, 1, 0; 1999 XF₁₃₄, 3, 1, 0; 1999 XG₁₃₄, 5, 1, 0; 1999 XM₁₃₄, 5, 1, 0; 1999 XR₁₃₄, 3, 1, 0; 1999 XT₁₃₄, 9, 2, 28; 1999 XU₁₃₄, 9, 2, 28; 1999 XX₁₃₄, 3, 1, 0; 1999 XC₁₃₅, 5, 1, 0; 1999 XG₁₃₅, 3, 1, 0; 1999 XJ₁₃₅, 9, 2, 26; 1999 XP₁₃₅, 5, 1, 0; 1999 XV₁₃₅, 4, 1, 0; 1999 XG₁₃₆, 5, 1, 0; 1999 XO₁₃₆, 8, 2, 164; 1999 XR₁₃₆, 5, 1, 0; 1999 XU₁₃₆, 5, 1, 0; 1999 XW₁₃₆, 10, 2, 27; 1999 XX₁₃₆, 5, 1, 0; 1999 XZ₁₃₆, 5, 1, 0; 1999 XC₁₃₇, 4, 1, 0; 1999 XL₁₃₇, 10, 2, 172; 1999 XO₁₃₇, 5, 1, 0; 1999 XR₁₃₇, 4, 1, 0; 1999 XV₁₃₇, 10, 2, 10; 1999 XB₁₃₉, 3, 1, 0; 1999 XF₁₃₉, 3, 1, 0; 1999 XH₁₃₉, 15, 4, 30; 1999 XC₁₄₁, 20, 4, 12; 1999 XH₁₄₁, 4, 1, 0; 1999 XS₁₄₁, 10, 2, 10; 1999 XU₁₄₁, 5, 1, 0; 1999 XW₁₄₁, 3, 1, 0; 1999 XA₁₄₂, 23, 5, 168; 1999 XG₁₄₂, 13, 3, 38; 1999 XR₁₄₂, 10, 2, 157; 1999 XB₁₄₃, 5, 1, 0; 1999 XC₁₄₃, 17, 4, 41; 1999 XD₁₄₃, 28, 5, 30; 1999 XF₁₄₃, 5, 1, 0; 1999 XG₁₄₃, 5, 1, 0; 1999 XJ₁₄₃, 5, 1, 0; 1999 XL₁₄₃, 5, 1, 0; 1999 XQ₁₄₃, 4, 1, 0; 1999 XS₁₄₃, 4, 1, 0; 1999 XA₁₄₄, 9, 2, 2; 1999 XE₁₄₄, 5, 1, 0; 1999 XF₁₄₄, 10, 2, 166; 1999 XG₁₄₄, 10, 2, 165; 1999 XH₁₄₄, 5, 1, 0; 1999 XJ₁₄₄, 4, 1, 0; 1999 XM₁₄₄, 10, 2, 166; 1999 XN₁₄₄, 4, 1, 0; 1999 XR₁₄₄, 5, 1, 0; 1999 XO₁₄₇, 3, 1, 0; 1999 XB₁₅₁, 5, 1, 0; 1999 XD₁₅₁, 5, 1, 0; 1999 XP₁₅₁, 3, 1, 0; 1999 XX₁₅₁, 15, 3, 173; 1999 XK₁₅₂, 5, 1, 0; 1999 XP₁₅₂, 5, 1, 0; 1999 XQ₁₅₂, 5, 1, 0; 1999 XT₁₅₂, 10, 1, 0; 1999 XN₁₅₃, 19, 4, 174; 1999 XO₁₅₃, 5, 1, 0; 1999 XS₁₅₃, 5, 1, 0; 1999 XD₁₅₄, 8, 2, 2; 1999 XH₁₅₄, 8, 2, 26; 1999 XM₁₅₄, 4, 1, 0; 1999 XD₁₅₅, 4, 1, 0; 1999 XP₁₅₅, 8, 2, 26; 1999 XT₁₅₅, 15, 3, 35; 1999 XU₁₅₅, 4, 1, 0; 1999 XB₁₅₆, 4, 1, 0; 1999 XD₁₅₆, 3, 1, 0; 1999 XG₁₅₆, 7, 2, 2; 1999 XO₁₅₆, 5, 1, 0; 1999 XR₁₅₆, 3, 1, 0; 1999 XZ₁₅₆, 10, 2, 26; 1999 XF₁₅₇, 9, 2, 38; 1999 XK₁₅₇, 15, 3, 38; 1999 XL₁₅₇, 4, 1, 0; 1999 XM₁₅₇, 8, 2, 36; 1999 XT₁₅₇, 5, 1, 0; 1999 XW₁₅₇, 9, 2, 38; 1999 XY₁₅₇, 7, 2, 26; 1999 XC₁₅₈, 4, 1, 0; 1999 XD₁₅₈, 12, 3, 38; 1999 XE₁₅₈, 5, 1, 0; 1999 XF₁₅₈, 5, 1, 0; 1999 XJ₁₅₉, 13, 3, 38; 1999 XO₁₅₉, 8, 2, 36; 1999 XQ₁₅₉, 4, 1, 0; 1999 XR₁₅₉, 14, 3, 38; 1999 XV₁₅₉, 4, 1, 0; 1999 XA₁₆₀, 20, 4, 175; 1999 XB₁₆₀, 4, 1, 0; 1999 XR₁₆₀, 5, 1, 0; 1999 XV₁₆₀, 8, 2, 26; 1999 XB₁₆₁, 14, 2, 2; 1999 XE₁₆₁, 12, 2, 18; 1999 XW₁₆₂, 5, 1, 0; 1999 XA₁₆₃, 10, 2, 26; 1999 XV₁₆₃, 3, 1, 0; 1999 XW₁₆₃, 4, 1, 0; 1999 XY₁₆₃, 19, 4, 10; 1999 XE₁₆₄, 7, 2, 8; 1999 XF₁₆₄, 5, 1, 0; 1999 XG₁₆₄, 13, 3, 165; 1999 XH₁₆₄, 5, 1, 0; 1999 XJ₁₆₄, 4, 1, 0; 1999 XK₁₆₄, 5, 1, 0; 1999 XL₁₆₄, 5, 1, 0; 1999 XA₁₆₄, 9, 2, 163; 1999 XN₁₆₄, 10, 2, 163; 1999 XO₁₆₄, 4, 1, 0; 1999 XR₁₆₄, 5, 1, 0; 1999 XT₁₆₄, 4, 1, 0; 1999 XU₁₆₄, 4, 1, 0; 1999 XV₁₆₄, 15, 3, 594; 1999 XW₁₆₄, 5, 1, 0; 1999 XZ₁₆₄, 9, 2, 5; 1999 XY₁₆₄, 5, 1, 0; 1999 XB₁₆₅, 13, 3, 171; 1999 XD₁₆₅, 9, 2, 5; 1999 XE₁₆₅, 15, 3, 8; 1999 XJ₁₆₅, 10, 2, 5; 1999 XN₁₆₅, 5, 1, 0; 1999 XP₁₆₅, 14, 3, 66; 1999 XS₁₆₅, 4, 1, 0; 1999 XT₁₆₅, 5, 1, 0; 1999 XU₁₆₅, 5, 1, 0; 1999 XZ₁₆₅, 22, 5, 70; 1999 XA₁₆₆, 5, 1, 0; 1999 XD₁₆₆, 19, 4, 15; 1999 XF₁₆₆, 5, 1, 0; 1999 XJ₁₆₆, 9, 2, 2; 1999 XP₁₆₆, 5, 1, 0; 1999 XR₁₆₆, 5, 1, 0; 1999 XA₁₆₇, 5, 1, 0; 1999 XB₁₆₇, 14, 2, 2; 1999 XC₁₆₇, 5, 1, 0; 1999 XG₁₆₇, 5, 1, 0; 1999 XK₁₆₇, 5, 1, 0; 1999 XM₁₆₇, 5, 1, 0; 1999 XQ₁₆₇, 5, 1, 0; 1999 XU₁₆₇, 4, 1, 0; 1999 XD₁₆₈, 10, 2, 10; 1999 XE₁₆₈, 5, 1, 0; 1999 XF₁₆₈, 5, 1, 0; 1999 XG₁₆₈, 4, 1, 0; 1999 XJ₁₆₈, 17, 3, 3; 1999 XL₁₆₈, 5, 1, 0; 1999 XN₁₆₈, 15, 3, 114; 1999 XV₁₆₈, 5, 1, 0; 1999 XY₁₆₈, 5, 1, 0; 1999 XZ₁₆₈, 4, 1, 0; 1999 XB₁₆₉, 10, 2, 2; 1999 XE₁₆₉, 5, 1, 0; 1999 XF₁₆₉, 5, 1, 0; 1999 XG₁₆₉, 9, 2, 172; 1999 XJ₁₆₉, 8, 2, 2; 1999 XK₁₆₉, 3, 1, 0; 1999 XQ₁₆₉, 5, 1, 0; 1999 XS₁₆₉, 4, 1, 0; 1999 XT₁₆₉, 10, 2, 172; 1999 XU₁₆₉, 5, 1, 0; 1999 XC₁₇₀, 15, 3, 120; 1999 XN₁₇₀, 9, 2, 108; 1999 XV₁₇₀, 5, 1, 0; 1999 XW₁₇₀, 5, 1, 0; 1999 XZ₁₇₀, 8, 2, 108; 1999 XH₁₇₁, 3, 1, 0; 1999 XO₁₇₁, 9, 2, 83; 1999 XS₁₇₁, 4, 1, 0; 1999 XW₁₇₁, 5, 1, 0; 1999 XA₁₇₂, 4, 1, 0; 1999 XE₁₇₂, 20, 4, 172; 1999 XF₁₇₂, 13, 3, 83; 1999 XL₁₇₂, 4, 1, 0; 1999 XN₁₇₂, 4, 1, 0; 1999 XV₁₇₂, 10, 2, 10; 1999 XW₁₇₂, 8, 2, 174; 1999 XX₁₇₂, 4, 1, 0; 1999 XZ₁₇₂, 3, 1, 0; 1999 XB₁₇₃, 5, 1, 0; 1999 XC₁₇₃, 4, 1, 0; 1999 XD₁₇₃, 5, 1, 0; 1999 XJ₁₇₃, 5, 1, 0; 1999 XK₁₇₃, 9, 2, 172; 1999 XO₁₇₃, 6, 2, 10; 1999 XS₁₇₃, 10, 2, 10; 1999 XU₁₇₃, 5, 1, 0; 1999 XV₁₇₃, 16, 4, 167; 1999 XA₁₇₄, 8, 2, 172; 1999 XG₁₇₄, 5, 1, 0; 1999 XJ₁₇₄, 5, 1, 0; 1999 XO₁₇₄, 5, 1, 0; 1999 XQ₁₇₄, 9, 2, 10; 1999 XU₁₇₄, 5, 1, 0; 1999 XY₁₇₄, 24, 5, 138; 1999 XE₁₇₅, 9, 2, 91; 1999 XH₁₇₅, 5, 1, 0; 1999 XJ₁₇₅, 5, 1, 0; 1999 XO₁₇₅, 18, 4, 582; 1999 XP₁₇₅, 20, 5, 554; 1999 XQ₁₇₅, 3, 1, 0; 1999 XT₁₇₅, 18, 4, 91; 1999 XZ₁₇₅, 3, 1, 0; 1999 XD₁₇₆, 5, 1, 0; 1999 XE₁₇₆, 3, 1, 0; 1999 XG₁₇₆, 9, 2, 163; 1999 XK₁₇₆, 12, 3, 51; 1999 XL₁₇₆, 5, 1, 0; 1999 XM₁₇₆, 4, 1, 0; 1999 XN₁₇₆, 15, 3, 85; 1999 XR₁₇₆, 5, 1, 0; 1999 XU₁₇₆, 3, 1, 0; 1999 XV₁₇₆, 12, 3, 174; 1999 XW₁₇₆, 4, 1, 0; 1999 XY₁₇₆, 5, 1, 0; 1999 XD₁₇₇, 9, 2, 163; 1999 XE₁₇₇, 5, 1, 0; 1999 XK₁₇₇, 9, 2, 10; 1999 XN₁₇₇, 5, 1, 0; 1999 XE₁₇₈, 3, 1, 0; 1999 XJ₁₇₈, 4, 1, 0; 1999 XM₁₇₈, 5, 1, 0; 1999 XO₁₇₈, 4, 1, 0; 1999 XW₁₇₈, 13, 3, 85; 1999 XC₁₇₉, 5, 1, 0; 1999 XK₁₈₀, 3, 1, 0; 1999 XN₁₈₀, 4, 1, 0; 1999 XO₁₈₀, 15, 3, 90; 1999 XP₁₈₀, 17, 4, 62; 1999 XS₁₈₀, 10, 2, 69; 1999 XL₁₈₁, 4, 1, 0; 1999 XN₁₈₁, 5, 1, 0; 1999 XP₁₈₁, 5, 1, 0; 1999 XT₁₈₁, 5, 1, 0; 1999 XJ₁₈₂, 5, 1, 0; 1999 XK₁₈₂, 18, 4, 525; 1999 XQ₁₈₂, 18, 4, 80; 1999 XU₁₈₃, 9, 2, 80; 1999 XP₁₈₄, 4, 1, 0; 1999 XQ₁₈₄, 9, 2, 108; 1999 XT₁₈₄, 5, 1, 0; 1999 XF₁₈₆, 4, 1, 0; 1999 XN₁₈₇, 4, 1, 0; 1999 XY₁₈₇, 4, 1, 0; 1999 XG₁₈₈, 5, 1, 0; 1999 XK₁₈₈, 5, 1, 0; 1999 XL₁₈₈, 9, 2, 423; 1999 XP₁₈₈, 4, 1, 0; 1999 XQ₁₈₈, 4, 1, 0; 1999 XR₁₈₈, 10, 2, 2; 1999 XU₁₈₈, 4, 1, 0; 1999 XF₁₈₉, 10, 2, 80; 1999 XK₁₈₉, 3, 1, 0; 1999 XR₁₈₉, 4, 1, 0; 1999 XZ₁₈₉, 4, 1, 0; 1999 XO₁₉₀, 5, 1, 0; 1999 XS₁₉₀, 4, 1, 0; 1999 XU₁₉₀, 5, 1,

0; 1999 XY₁₉₀, 4, 1, 0; 1999 XJ₁₉₁, 5, 1, 0; 1999 XM₁₉₁, 4, 1, 0; 1999 XW₁₉₁, 5, 1, 0; 1999 XA₁₉₂, 5, 1, 0; 1999 XE₁₉₂, 9, 2, 171; 1999 XS₁₉₂, 4, 1, 0; 1999 XX₁₉₂, 7, 2, 1; 1999 XA₁₉₃, 3, 1, 0; 1999 XP₁₉₃, 5, 1, 0; 1999 XU₁₉₃, 4, 1, 0; 1999 XG₁₉₄, 3, 1, 0; 1999 XY₁₉₄, 8, 2, 171; 1999 XL₁₉₅, 9, 2, 171; 1999 XJ₁₉₇, 17, 4, 177; 1999 XX₁₉₇, 4, 1, 0; 1999 XW₂₀₀, 4, 1, 0; 1999 XU₂₀₂, 4, 1, 0; 1999 XW₂₀₂, 9, 2, 6; 1999 XZ₂₀₂, 10, 2, 166; 1999 XD₂₀₃, 5, 1, 0; 1999 XJ₂₀₃, 4, 1, 0; 1999 XH₂₀₄, 5, 1, 0; 1999 XM₂₀₅, 5, 1, 0; 1999 XN₂₀₅, 4, 1, 0; 1999 XQ₂₀₅, 4, 1, 0; 1999 XG₂₀₆, 5, 1, 0; 1999 XM₂₀₆, 5, 1, 0; 1999 XS₂₀₆, 5, 1, 0; 1999 XS₂₀₈, 9, 2, 78; 1999 XJ₂₀₉, 5, 1, 0; 1999 XO₂₀₉, 4, 1, 0; 1999 XB₂₁₁, 5, 1, 0; 1999 XC₂₁₁, 4, 1, 0; 1999 XW₂₁₁, 5, 1, 0; 1999 XG₂₁₂, 15, 3, 28; 1999 XH₂₁₂, 10, 2, 38; 1999 XK₂₁₂, 4, 1, 0; 1999 XM₂₁₂, 5, 1, 0; 1999 XN₂₁₂, 5, 1, 0; 1999 XY₂₁₂, 5, 1, 0; 1999 XA₂₁₃, 5, 1, 0; 1999 XB₂₁₃, 5, 1, 0; 1999 XL₂₁₃, 4, 1, 0; 1999 XN₂₁₃, 3, 1, 0; 1999 XW₂₁₃, 5, 1, 0; 1999 XK₂₁₅, 6, 2, 11; 1999 XL₂₁₅, 8, 2, 11; 1999 XP₂₁₅, 3, 1, 0; 1999 XS₂₁₅, 4, 1, 0; 1999 XZ₂₁₅, 3, 1, 0; 1999 XU₂₁₆, 4, 1, 0; 1999 XO₂₂₀, 5, 1, 0; 1999 XP₂₂₀, 5, 1, 0; 1999 XQ₂₂₀, 5, 1, 0; 1999 XZ₂₂₀, 5, 1, 0; 1999 XC₂₂₁, 4, 1, 0; 1999 XE₂₂₁, 5, 1, 0; 1999 XG₂₂₁, 4, 1, 0; 1999 XJ₂₂₁, 4, 1, 0; 1999 XR₂₂₁, 4, 1, 0; 1999 XO₂₂₁, 5, 1, 0; 1999 XZ₂₂₃, 4, 1, 0; 1999 XU₂₂₅, 3, 1, 0; 1999 XV₂₂₅, 4, 1, 0; 1999 XY₂₂₅, 4, 1, 0; 1999 XX₂₂₆, 5, 1, 0; 1999 XZ₂₂₇, 5, 1, 0; 1999 XA₂₂₈, 5, 1, 0; 1999 XB₂₂₈, 10, 2, 28; 1999 XH₂₂₉, 3, 1, 0; 1999 XD₂₃₀, 10, 2, 35; 1999 XJ₂₃₀, 14, 3, 15; 1999 XR₂₃₀, 8, 2, 61; 1999 XW₂₃₀, 3, 1, 0; 1999 XA₂₃₁, 20, 4, 90; 1999 XG₂₃₁, 5, 1, 0; 1999 XQ₂₃₁, 15, 3, 85; 1999 XT₂₃₁, 13, 3, 29; 1999 XB₂₃₂, 4, 1, 0; 1999 YH, 5, 1, 0; 1999 YS, 10, 2, 6; 1999 YX, 8, 2, 9; 1999 YZ, 10, 2, 10; 1999 YO₁, 8, 2, 8; 1999 YP₁, 4, 1, 0; 1999 YD₃, 5, 1, 0; 1999 YM₃, 5, 1, 0; 1999 YY₃, 5, 1, 0; 1999 YD₄, 5, 1, 0; 1999 YJ₄, 10, 2, 28; 1999 YS₄, 4, 1, 0; 1999 YA₅, 7, 2, 163; 1999 YE₅, 10, 2, 28; 1999 YH₅, 5, 1, 0; 1999 YT₅, 10, 2, 48; 1999 YA₆, 3, 1, 0; 1999 YB₇, 5, 1, 0; 1999 YH₇, 15, 3, 10; 1999 YD₈, 13, 3, 527; 1999 YT₈, 9, 2, 108; 1999 YA₉, 9, 3, 175; 1999 YE₉, 27, 6, 583; 1999 YF₉, 3, 1, 0; 1999 YJ₉, 5, 1, 0; 1999 YM₉, 4, 1, 0; 1999 YO₉, 4, 1, 0; 1999 YP₉, 14, 3, 588; 1999 YR₉, 5, 1, 0; 1999 YS₉, 19, 4, 114; 1999 YT₉, 4, 1, 0; 1999 YV₁₀, 7, 2, 27; 1999 YA₁₁, 3, 1, 0; 1999 YD₁₃, 8, 2, 27; 1999 YR₁₃, 20, 5, 510; 1999 YU₁₃, 8, 2, 508; 1999 YV₁₃, 23, 5, 506; 1999 YY₁₄, 5, 1, 0; 1999 YS₁₅, 10, 2, 27; 1999 YJ₁₆, 3, 1, 0; 1999 YR₁₇, 7, 2, 5; 1999 YG₁₈, 4, 1, 0; 2000 AA, 3, 1, 0; 2000 AB, 8, 2, 11; 2000 AC, 5, 1, 0; 2000 AF, 4, 1, 0; 2000 AJ, 14, 3, 164; 2000 AK, 15, 3, 164; 2000 AM, 11, 3, 165; 2000 AN, 14, 3, 173; 2000 AD₁, 8, 1, 0; 2000 AN₁, 4, 1, 0; 2000 AP₁, 4, 1, 0; 2000 AQ₁, 5, 1, 0; 2000 AR₁, 5, 1, 0; 2000 AS₁, 3, 1, 0; 2000 AZ₁, 8, 2, 137; 2000 AB₂, 5, 1, 0; 2000 AE₂, 5, 1, 0; 2000 AF₂, 10, 2, 26; 2000 AJ₂, 10, 2, 594; 2000 AK₂, 7, 2, 63; 2000 AM₂, 22, 5, 481; 2000 AN₂, 10, 1, 0; 2000 AO₂, 9, 2, 163; 2000 AQ₂, 14, 3, 50; 2000 AU₂, 13, 3, 169; 2000 AW₂, 21, 5, 175; 2000 AX₂, 4, 1, 0; 2000 AY₂, 7, 2, 26; 2000 AB₃, 8, 2, 164; 2000 AE₃, 5, 1, 0; 2000 AA₄, 8, 2, 27; 2000 AG₄, 48, 10, 21; 2000 AL₄, 9, 2, 8; 2000 AR₄, 4, 1, 0; 2000 AY₄, 5, 1, 0; 2000 AD₅, 4, 1, 0; 2000 AF₅, 13, 3, 125; 2000 AY₅, 8, 2, 8; 2000 AM₆, 6, 2, 163; 2000 AN₆, 12, 3, 58; 2000 AS₇, 4, 1, 0; 2000 AR₉, 3, 1, 0; 2000 AE₁₀, 9, 2, 10; 2000 AF₁₀, 4, 1, 0; 2000 AA₁₂, 8, 2, 2; 2000 AG₁₆, 5, 1, 0; 2000 AS₁₆, 9, 2, 954; 2000 AO₁₇, 12, 3, 175; 2000 AS₁₇, 4, 1, 0; 2000 AN₁₈, 8, 2, 10; 2000 AO₂₂, 10, 2, 10; 2000 AC₂₃, 5, 1, 0; 2000 AO₂₃, 8, 2, 391; 2000 AF₂₅, 3, 1, 0; 2000 AR₂₅, 10, 2, 172; 2000 AW₂₆, 3, 1, 0; 2000 AU₂₇, 5, 1, 0; 2000 AB₂₉, 7, 2, 172; 2000 AK₂₉, 4, 1, 0; 2000 AF₃₀, 9, 2, 1; 2000 AK₃₀, 5, 1, 0; 2000 AE₃₁, 14, 3, 163; 2000 AK₃₁, 4, 1, 0; 2000 AM₃₁, 3, 1, 0; 2000 AU₃₁, 4, 1, 0; 2000 AJ₃₂, 4, 1, 0; 2000 AY₃₂, 8, 2, 63; 2000 AZ₃₂, 4, 1, 0; 2000 AA₃₃, 14, 3, 58; 2000 AG₃₃, 9, 2, 109; 2000 AJ₃₃, 7, 2, 11; 2000 AL₃₃, 12, 3, 58; 2000 AO₃₃, 25, 5, 138; 2000 AC₃₄, 3, 1, 0; 2000 AG₃₄, 4, 1, 0; 2000 AL₃₄, 4, 1, 0; 2000 AT₃₄, 4, 1, 0; 2000

2000 APR. 18

M.P.C. 39767

4, 1, 0; 2000 AJ₈₅, 19, 4, 594; 2000 AP₈₅, 5, 1, 0; 2000 AV₈₅, 9, 2, 87; 2000 AX₈₅, 7, 2, 175; 2000 AW₈₆, 3, 1, 0; 2000 AH₈₇, 3, 1, 0; 2000 AL₈₇, 5, 1, 0; 2000 AT₈₇, 4, 1, 0; 2000 AU₈₇, 5, 1, 0; 2000 AV₈₇, 3, 1, 0; 2000 AC₈₈, 5, 1, 0; 2000 AL₈₈, 13, 3, 106; 2000 AN₈₈, 4, 1, 0; 2000 AO₈₈, 12, 3, 175; 2000 AZ₈₈, 5, 1, 0; 2000 AA₈₉, 5, 1, 0; 2000 AH₈₉, 4, 1, 0; 2000 AM₈₉, 15, 4, 176; 2000 AQ₈₉, 9, 2, 1; 2000 AZ₈₉, 3, 1, 0; 2000 AR₉₀, 8, 2, 87; 2000 AE₉₂, 5, 1, 0; 2000 AT₉₂, 5, 1, 0; 2000 AH₉₃, 5, 1, 0; 2000 AN₉₃, 4, 1, 0; 2000 AR₉₃, 4, 1, 0; 2000 AY₉₃, 5, 1, 0; 2000 AK₉₄, 9, 2, 73; 2000 AY₉₄, 6, 2, 14; 2000 AB₉₅, 5, 1, 0; 2000 AE₉₅, 4, 1, 0; 2000 AV₉₅, 4, 1, 0; 2000 AW₉₅, 5, 1, 0; 2000 AK₉₆, 4, 1, 0; 2000 AN₉₆, 3, 1, 0; 2000 AO₉₆, 5, 1, 0; 2000 AP₉₆, 5, 1, 0; 2000 AR₉₆, 5, 1, 0; 2000 AY₉₆, 7, 2, 5; 2000 AZ₉₆, 4, 1, 0; 2000 AA₉₇, 21, 5, 15; 2000 AC₉₇, 4, 1, 0; 2000 AD₉₇, 14, 3, 5; 2000 AE₉₇, 9, 2, 6; 2000 AF₉₇, 8, 2, 7; 2000 AG₉₇, 8, 2, 5; 2000 AJ₉₇, 9, 2, 6; 2000 AK₉₇, 8, 2, 7; 2000 AM₉₇, 14, 3, 143; 2000 AN₉₇, 5, 1, 0; 2000 AO₉₇, 12, 3, 13; 2000 AQ₉₇, 5, 1, 0; 2000 AS₉₇, 4, 1, 0; 2000 AT₉₇, 8, 2, 5; 2000 AU₉₇, 9, 2, 3; 2000 AV₉₇, 9, 2, 6; 2000 AW₉₇, 10, 2, 3; 2000 AX₉₇, 5, 1, 0; 2000 AY₉₇, 8, 2, 7; 2000 AZ₉₇, 10, 2, 483; 2000 AB₉₈, 12, 3, 137; 2000 AC₉₈, 8, 2, 7; 2000 AD₉₈, 8, 2, 6; 2000 AE₉₈, 3, 1, 0; 2000 AF₉₈, 8, 2, 7; 2000 AG₉₈, 5, 1, 0; 2000 AH₉₈, 31, 7, 13; 2000 AL₉₈, 14, 3, 11; 2000 AM₉₈, 23, 5, 34; 2000 AN₉₈, 4, 1, 0; 2000 AL₉₉, 24, 5, 38; 2000 AS₉₉, 5, 1, 0; 2000 AC₁₀₀, 18, 4, 29; 2000 AJ₁₀₀, 10, 2, 10; 2000 AN₁₀₀, 5, 1, 0; 2000 AO₁₀₀, 28, 5, 66; 2000 AB₁₀₁, 10, 2, 10; 2000 AP₁₀₁, 21, 5, 15; 2000 AX₁₀₁, 15, 3, 60; 2000 AP₁₀₂, 5, 1, 0; 2000 AQ₁₀₃, 5, 1, 0; 2000 AF₁₀₄, 14, 3, 36; 2000 AH₁₀₄, 5, 1, 0; 2000 AN₁₀₄, 20, 4, 122; 2000 AM₁₀₅, 4, 1, 0; 2000 AM₁₀₆, 8, 2, 26; 2000 AB₁₀₇, 4, 1, 0; 2000 AN₁₀₇, 5, 1, 0; 2000 AP₁₀₇, 4, 1, 0; 2000 AS₁₁₀, 4, 1, 0; 2000 AJ₁₁₁, 4, 1, 0; 2000 AX₁₁₁, 14, 3, 165; 2000 AJ₁₁₂, 3, 1, 0; 2000 AT₁₁₂, 13, 3, 177; 2000 AU₁₁₂, 7, 2, 26; 2000 AB₁₁₃, 13, 3, 508; 2000 AC₁₁₃, 5, 1, 0; 2000 AR₁₁₃, 9, 2, 175; 2000 AT₁₁₃, 13, 3, 36; 2000 AW₁₁₃, 5, 1, 0; 2000 AC₁₁₄, 10, 2, 114; 2000 AM₁₁₄, 4, 1, 0; 2000 AK₁₁₅, 4, 1, 0; 2000 AP₁₁₅, 15, 3, 165; 2000 AJ₁₁₆, 3, 1, 0; 2000 AA₁₁₇, 15, 3, 177; 2000 AF₁₁₇, 4, 1, 0; 2000 AK₁₁₇, 5, 1, 0; 2000 AY₁₁₇, 13, 3, 177; 2000 AD₁₁₈, 8, 2, 176; 2000 AL₁₁₈, 4, 1, 0; 2000 AT₁₁₈, 4, 1, 0; 2000 AB₁₁₉, 7, 2, 52; 2000 AK₁₁₉, 20, 4, 176; 2000 AN₁₁₉, 3, 1, 0; 2000 AR₁₁₉, 13, 3, 164; 2000 AG₁₂₀, 5, 1, 0; 2000 AR₁₂₀, 20, 4, 176; 2000 AS₁₂₀, 5, 1, 0; 2000 AV₁₂₀, 4, 1, 0; 2000 AZ₁₂₀, 4, 1, 0; 2000 AK₁₂₁, 5, 1, 0; 2000 AL₁₂₁, 16, 4, 115; 2000 AM₁₂₂, 9, 2, 120; 2000 AE₁₂₃, 4, 1, 0; 2000 AQ₁₂₃, 10, 2, 27; 2000 AV₁₂₃, 9, 2, 7; 2000 AW₁₂₃, 11, 3, 52; 2000 AX₁₂₃, 3, 1, 0; 2000 AZ₁₂₃, 5, 1, 0; 2000 AD₁₂₄, 26, 5, 110; 2000 AE₁₂₄, 10, 2, 139; 2000 AH₁₂₄, 5, 1, 0; 2000 AO₁₂₄, 5, 1, 0; 2000 AP₁₂₄, 3, 1, 0; 2000 AS₁₂₄, 3, 1, 0; 2000 AW₁₂₄, 9, 2, 1; 2000 AX₁₂₄, 14, 3, 165; 2000 AJ₁₂₅, 10, 2, 139; 2000 AL₁₂₅, 5, 1, 0; 2000 AP₁₂₅, 4, 1, 0; 2000 AQ₁₂₅, 5, 1, 0; 2000 AS₁₂₅, 4, 1, 0; 2000 AU₁₂₅, 20, 4, 139; 2000 AW₁₂₅, 5, 1, 0; 2000 AY₁₂₅, 3, 1, 0; 2000 AC₁₂₆, 20, 4, 478; 2000 AL₁₂₆, 3, 1, 0; 2000 AM₁₂₆, 3, 1, 0; 2000 AP₁₂₆, 8, 2, 7; 2000 AZ₁₂₆, 12, 3, 8; 2000 AB₁₂₇, 4, 1, 0; 2000 AC₁₂₇, 5, 1, 0; 2000 AD₁₂₇, 8, 2, 453; 2000 AM₁₂₇, 12, 3, 145; 2000 AO₁₂₇, 4, 1, 0; 2000 AQ₁₂₇, 4, 1, 0; 2000 AT₁₂₇, 4, 1, 0; 2000 AU₁₂₇, 3, 1, 0; 2000 AV₁₂₇, 5, 1, 0; 2000 AW₁₂₇, 9, 2, 137; 2000 AA₁₂₈, 5, 1, 0; 2000 AH₁₂₈, 9, 2, 139; 2000 AJ₁₂₈, 4, 1, 0; 2000 AM₁₂₈, 3, 1, 0; 2000 AS₁₂₈, 14, 3, 143; 2000 AW₁₂₈, 4, 1, 0; 2000 AH₁₂₉, 5, 1, 0; 2000 AU₁₂₉, 5, 1, 0; 2000 AV₁₂₉, 3, 1, 0; 2000 AW₁₂₉, 5, 1, 0; 2000 AC₁₃₀, 4, 1, 0; 2000 AD₁₃₀, 16, 4, 1006; 2000 AN₁₃₂, 3, 1, 0; 2000 AG₁₃₃, 17, 4, 70; 2000 AJ₁₃₃, 5, 1, 0; 2000 AK₁₃₃, 24, 5, 35; 2000 AV₁₃₃, 10, 2, 19; 2000 AW₁₃₄, 5, 1, 0; 2000 AQ₁₃₆, 15, 3, 38; 2000 AT₁₃₆, 9, 2, 6; 2000 AU₁₃₆, 8, 2, 7; 2000 AV₁₃₆, 10, 2, 139; 2000 AX₁₃₆, 14, 3, 5; 2000 AY₁₃₆, 5, 1, 0; 2000 AZ₁₃₆, 9, 2, 6; 2000 AC₁₃₇, 12, 3, 13; 2000 AF₁₃₇, 19, 4, 16; 2000 AG₁₃₇, 14, 2, 1; 2000 AH₁₃₇, 22, 5, 584; 2000 AJ₁₃₇, 10, 2, 4; 2000 AK₁₃₇, 14, 3, 11; 2000 AL₁₃₇, 18, 4, 13; 2000 AO₁₃₇, 18, 3, 5; 2000 AP₁₃₇, 16, 4, 11; 2000 AR₁₃₇, 14, 3, 11; 2000 AT₁₃₇, 5, 1, 0; 2000 AU₁₃₇, 10, 2, 4; 2000 AV₁₃₇, 5, 1, 0; 2000 AW₁₃₇, 34, 7, 476; 2000 AX₁₃₇, 26, 6, 62; 2000 AY₁₃₇, 27, 6, 59; 2000 AA₁₃₈, 14, 3, 11; 2000 AB₁₃₈, 32, 6, 59; 2000 AF₁₃₈, 14, 3, 54; 2000 AE₁₃₉, 5, 1, 0; 2000 AM₁₃₉, 18, 4, 38; 2000 AX₁₃₉, 21, 4, 55; 2000 AZ₁₃₉, 5, 1, 0; 2000 AC₁₄₀, 10, 2, 28; 2000 AE₁₄₀, 10, 2, 28; 2000 AM₁₄₀, 14, 3, 38; 2000 AV₁₄₀, 3, 1, 0; 2000 AX₁₄₀, 3, 1, 0; 2000 AD₁₄₁, 3, 1, 0; 2000 AE₁₄₁, 3, 1, 0; 2000 AG₁₄₁, 5, 1, 0; 2000 AK₁₄₁, 12, 3, 138; 2000 AL₁₄₁, 10, 2, 140; 2000 AN₁₄₁, 14, 2, 80; 2000 AQ₁₄₁, 3, 1, 0; 2000 AY₁₄₁, 7, 2, 80; 2000 AA₁₄₂, 14, 3, 595; 2000 AD₁₄₂, 12, 3, 145; 2000 AG₁₄₂, 3, 1, 0; 2000 AN₁₄₂, 24, 5, 122; 2000 AO₁₄₂, 22, 5, 92; 2000 AP₁₄₂, 4, 1, 0; 2000 AU₁₄₂, 10, 2, 138; 2000 AX₁₄₂, 8, 2, 88; 2000 AC₁₄₃, 4, 1, 0; 2000 AE₁₄₃, 3, 1, 0; 2000 AF₁₄₃, 5, 1, 0; 2000 AO₁₄₃, 4, 1, 0; 2000 AS₁₄₃, 10, 3, 56; 2000 AU₁₄₃, 10, 2, 52; 2000 AV₁₄₃, 4, 1, 0; 2000 AH₁₄₄, 10, 2, 5; 2000 AL₁₄₄, 9, 2, 5; 2000 AM₁₄₄, 4, 1, 0; 2000 AN₁₄₄, 5, 1, 0; 2000 AO₁₄₄, 5, 1, 0; 2000 AP₁₄₄, 5, 1, 0; 2000 AQ₁₄₄, 9, 2, 6; 2000 AT₁₄₄, 19, 4, 4; 2000 AU₁₄₄, 19, 4, 16; 2000 AV₁₄₄, 5, 1, 0; 2000 AW₁₄₄, 30, 5, 5; 2000 AX₁₄₄, 19, 4, 114; 2000 AA₁₄₅, 5, 1, 0; 2000 AQ₁₄₅, 10, 2, 140; 2000 AX₁₄₅, 9, 2, 3; 2000 AZ₁₄₅, 25, 5, 14; 2000 AN₁₄₆, 10, 2, 176; 2000 AV₁₄₆, 4, 1, 0; 2000 AY₁₄₆, 10, 2, 27; 2000 AA₁₄₇, 5, 1, 0; 2000 AY₁₄₇, 4, 1, 0; 2000 AH₁₄₈, 5, 1, 0; 2000 AJ₁₄₈, 5, 1, 0; 2000 AV₁₄₈, 5, 1, 0; 2000 AW₁₄₈, 5, 1, 0; 2000 AX₁₄₈, 5, 1, 0; 2000 AA₁₄₉, 10, 2, 9; 2000 AD₁₄₉, 9, 2, 11; 2000 AE₁₄₉, 5, 1, 0; 2000 AJ₁₅₀, 3, 1, 0; 2000 AU₁₅₀, 9, 2, 1; 2000 AV₁₅₀, 5, 1, 0; 2000 AY₁₅₀, 5, 1, 0; 2000 AF₁₅₂, 5, 1, 0; 2000 AS₁₅₂, 15, 3, 166; 2000 AZ₁₅₂, 15, 3, 59; 2000 AC₁₅₃, 37, 7, 65; 2000 AO₁₅₃, 5, 1, 0; 2000 AQ₁₅₄, 14, 3, 11; 2000 AU₁₅₄, 9, 2, 75; 2000 AJ₁₅₉, 31, 6, 140; 2000 AN₁₅₉, 4, 1, 0; 2000 AG₁₆₁, 11, 3, 34; 2000 AN₁₆₁, 9, 2, 63; 2000 AS₁₆₁, 14, 3, 507; 2000 AT₁₆₁, 18, 4, 14; 2000 AC₁₆₂, 5, 1, 0; 2000 AJ₁₆₂, 9, 2, 477; 2000 AM₁₆₂, 24, 5, 97; 2000 AR₁₆₂, 9, 2, 3; 2000 AS₁₆₂, 10, 2, 138; 2000 AT₁₆₂, 31, 7, 11; 2000 AU₁₆₂, 15, 3, 59; 2000 AX₁₆₂, 18, 4, 91; 2000 AE₁₆₄, 5, 1, 0; 2000 AF₁₆₄, 19, 3, 145; 2000 AH₁₆₄, 4, 1, 0; 2000 AK₁₆₄, 30, 5, 4; 2000 AL₁₆₄, 8, 2, 7; 2000 AN₁₆₄, 8, 2, 7; 2000 AO₁₆₄,

5, 1, 0; 2000 AP₁₆₄, 8, 2, 7; 2000 AQ₁₆₄, 5, 1, 0; 2000 AL₁₆₅, 10, 2, 24; 2000 AN₁₆₅, 5, 1, 0; 2000 AP₁₆₅, 5, 1, 0; 2000 AR₁₆₅, 5, 1, 0; 2000 AD₁₆₆, 4, 1, 0; 2000 AG₁₆₆, 4, 1, 0; 2000 AQ₁₆₆, 19, 4, 83; 2000 AG₁₆₇, 6, 2, 176; 2000 AM₁₆₇, 9, 2, 8; 2000 AY₁₆₇, 5, 1, 0; 2000 AA₁₆₈, 20, 4, 12; 2000 AB₁₆₈, 27, 6, 67; 2000 AC₁₆₈, 28, 6, 70; 2000 AG₁₆₈, 19, 4, 15; 2000 AW₁₆₈, 4, 1, 0; 2000 AB₁₆₉, 10, 2, 18; 2000 AG₁₆₉, 5, 1, 0; 2000 AY₁₇₀, 5, 1, 0; 2000 AE₁₇₃, 25, 6, 145; 2000 AX₁₇₄, 4, 1, 0; 2000 AG₁₇₅, 20, 4, 65; 2000 AO₁₇₇, 3, 1, 0; 2000 AT₁₇₇, 3, 1, 0; 2000 AZ₁₇₇, 10, 2, 419; 2000 AT₁₈₀, 4, 1, 0; 2000 AN₁₈₂, 9, 2, 176; 2000 AT₁₈₄, 4, 1, 0; 2000 AD₁₈₅, 17, 4, 176; 2000 AK₁₈₅, 12, 3, 167; 2000 AM₁₈₅, 10, 1, 0; 2000 AP₁₈₅, 10, 2, 28; 2000 AH₁₈₆, 5, 1, 0; 2000 AA₁₈₇, 10, 2, 28; 2000 AE₁₈₇, 8, 2, 119; 2000 AG₁₈₇, 10, 2, 9; 2000 AU₁₈₇, 10, 2, 18; 2000 AV₁₈₇, 5, 1, 0; 2000 AX₁₈₇, 8, 2, 28; 2000 AB₁₈₈, 4, 1, 0; 2000 AE₁₈₈, 5, 1, 0; 2000 AQ₁₈₈, 5, 1, 0; 2000 AY₁₈₉, 5, 1, 0; 2000 AF₁₉₂, 3, 1, 0; 2000 AT₁₉₂, 10, 2, 149; 2000 AL₁₉₃, 3, 1, 0; 2000 AZ₁₉₃, 13, 3, 167; 2000 AU₁₉₄, 5, 1, 0; 2000 AX₁₉₄, 5, 1, 0; 2000 AB₁₉₅, 3, 1, 0; 2000 AD₁₉₅, 10, 2, 2; 2000 AS₁₉₅, 13, 3, 165; 2000 AU₁₉₅, 15, 3, 168; 2000 AF₁₉₆, 13, 3, 83; 2000 AM₁₉₆, 9, 2, 38; 2000 AP₁₉₆, 9, 2, 140; 2000 AF₁₉₇, 9, 2, 5; 2000 AG₁₉₇, 3, 1, 0; 2000 AS₁₉₇, 10, 2, 166; 2000 AW₁₉₇, 3, 1, 0; 2000 AZ₁₉₇, 5, 1, 0; 2000 AE₁₉₈, 5, 1, 0; 2000 AF₁₉₈, 7, 2, 4; 2000 AM₁₉₈, 5, 1, 0; 2000 AO₁₉₈, 4, 1, 0; 2000 AR₁₉₈, 14, 3, 55; 2000 AT₁₉₈, 18, 4, 121; 2000 AV₁₉₈, 4, 1, 0; 2000 AG₁₉₉, 5, 1, 0; 2000 AQ₁₉₉, 5, 1, 0; 2000 AT₁₉₉, 5, 1, 0; 2000 AY₁₉₉, 5, 1, 0; 2000 AZ₁₉₉, 5, 1, 0; 2000 AA₂₀₀, 5, 1, 0; 2000 AC₂₀₀, 5, 1, 0; 2000 AR₂₀₀, 5, 1, 0; 2000 AS₂₀₀, 5, 1, 0; 2000 AZ₂₀₁, 4, 1, 0; 2000 AA₂₀₂, 15, 3, 505; 2000 AU₂₀₂, 4, 1, 0; 2000 AV₂₀₂, 5, 1, 0; 2000 AB₂₀₃, 10, 2, 29; 2000 AE₂₀₃, 5, 1, 0; 2000 AG₂₀₃, 19, 3, 4; 2000 AJ₂₀₃, 5, 1, 0; 2000 AK₂₀₃, 5, 1, 0; 2000 AO₂₀₃, 19, 4, 57; 2000 AR₂₀₃, 5, 1, 0; 2000 AV₂₀₃, 4, 1, 0; 2000 AW₂₀₃, 5, 1, 0; 2000 AY₂₀₃, 5, 1, 0; 2000 AZ₂₀₃, 5, 1, 0; 2000 AF₂₀₄, 26, 6, 98; 2000 AN₂₀₄, 8, 2, 167; 2000 AR₂₀₄, 7, 2, 149; 2000 AY₂₀₄, 15, 3, 177; 2000 AA₂₀₅, 25, 5, 112; 2000 AC₂₀₅, 19, 4, 15; 2000 AS₂₀₅, 5, 1, 0; 2000 AA₂₁₄, 8, 2, 26; 2000 AF₂₁₄, 3, 1, 0; 2000 AH₂₁₄, 10, 1, 0; 2000 AK₂₁₅, 5, 1, 0; 2000 AA₂₁₆, 4, 1, 0; 2000 AU₂₂₆, 14, 1, 0; 2000 AF₂₂₇, 4, 1, 0; 2000 AG₂₂₈, 25, 5, 14; 2000 AA₂₂₉, 10, 2, 28; 2000 AE₂₂₉, 11, 3, 28; 2000 AF₂₂₉, 19, 4, 480; 2000 AP₂₃₀, 4, 1, 0; 2000 AY₂₃₀, 10, 2, 9; 2000 AC₂₃₁, 13, 3, 175; 2000 AO₂₃₂, 7, 2, 8; 2000 AP₂₃₂, 3, 1, 0; 2000 AU₂₃₂, 9, 1, 0; 2000 AC₂₃₃, 10, 2, 57; 2000 AJ₂₃₃, 3, 1, 0; 2000 AK₂₃₃, 8, 2, 7; 2000 AM₂₃₃, 25, 6, 59; 2000 AO₂₃₃, 16, 4, 6; 2000 AR₂₃₅, 5, 1, 0; 2000 AY₂₃₅, 5, 1, 0; 2000 AA₂₃₆, 4, 1, 0; 2000 AG₂₃₆, 3, 1, 0; 2000 AH₂₃₆, 5, 1, 0; 2000 AO₂₃₆, 5, 1, 0; 2000 AQ₂₃₆, 3, 1, 0; 2000 AS₂₃₆, 5, 1, 0; 2000 AT₂₃₆, 9, 2, 4; 2000 AU₂₃₆, 5, 1, 0; 2000 AV₂₃₆, 13, 3, 56; 2000 AZ₂₃₆, 5, 1, 0; 2000 AA₂₃₇, 9, 2, 3; 2000 AD₂₃₇, 5, 1, 0; 2000 AF₂₃₇, 5, 1, 0; 2000 AH₂₃₇, 5, 1, 0; 2000 AJ₂₃₇, 5, 1, 0; 2000 AL₂₃₇, 38, 7, 13; 2000 AN₂₃₇, 5, 1, 0; 2000 AO₂₃₇, 10, 2, 5; 2000 AQ₂₃₇, 20, 4, 6; 2000 AR₂₃₇, 10, 2, 4; 2000 AS₂₃₇, 5, 1, 0; 2000 AT₂₃₇, 19, 4, 13; 2000 AJ₂₃₈, 20, 4, 55; 2000 AN₂₃₉, 24, 5, 111; 2000 AS₂₃₉, 7, 2, 5; 2000 AV₂₃₉, 3, 1, 0; 2000 AW₂₃₉, 5, 1, 0; 2000 AX₂₃₉, 9, 2, 6; 2000 AZ₂₃₉, 19, 3, 5; 2000 AB₂₄₀, 5, 1, 0; 2000 AC₂₄₀, 9, 2, 7; 2000 AD₂₄₀, 13, 3, 6; 2000 AE₂₄₀, 10, 2, 4; 2000 AO₂₄₀, 5, 1, 0; 2000 AD₂₄₁, 19, 4, 94; 2000 AX₂₄₁, 3, 1, 0; 2000 AZ₂₄₁, 15, 3, 85; 2000 AC₂₄₂, 14, 3, 511; 2000 AF₂₄₂, 19, 4, 111; 2000 AG₂₄₂, 9, 2, 29; 2000 AM₂₄₂, 12, 3, 81; 2000 AR₂₄₂, 4, 1, 0; 2000 AS₂₄₂, 5, 1, 0; 2000 AU₂₄₂, 7, 2, 52; 2000 AY₂₄₂, 5, 1, 0; 2000 AB₂₄₃, 27, 7, 475; 2000 AC₂₄₃, 10, 2, 3; 2000 AD₂₄₃, 5, 1, 0; 2000 AE₂₄₃, 3, 1, 0; 2000 AG₂₄₃, 3, 1, 0; 2000 AH₂₄₃, 10, 2, 27; 2000 AK₂₄₃, 5, 1, 0; 2000 AM₂₄₃, 14, 3, 57; 2000 AN₂₄₃, 24, 5, 509; 2000 AO₂₄₃, 9, 2, 6; 2000 AP₂₄₃, 6, 2, 7; 2000 AQ₂₄₃, 24, 6, 89; 2000 AR₂₄₃, 22, 5, 59; 2000 AT₂₄₃, 18, 4, 59; 2000 AV₂₄₃, 8, 2, 7; 2000 AW₂₄₃, 13, 3, 11; 2000 AX₂₄₃, 18, 4, 16; 2000 AA₂₄₄, 10, 2, 61; 2000 AK₂₄₄, 10, 2, 93; 2000 AX₂₄₄, 14, 4, 138; 2000 AZ₂₄₄, 8, 2, 7; 2000 AK₂₄₅, 15, 3, 110; 2000 AO₂₄₅, 5, 1, 0; 2000 AG₂₄₆, 34, 7, 96; 2000 AJ₂₄₆, 24, 5, 6; 2000 AK₂₄₆, 24, 5, 91; 2000 AL₂₄₆, 15,

5, 1, 0; 2000 CU₂₄, 4, 1, 0; 2000 CF₂₆, 3, 1, 0; 2000 CZ₂₆, 3, 1, 0; 2000 CF₂₇, 5, 1, 0; 2000 CT₂₇, 11, 3, 145; 2000 CC₂₈, 22, 5, 585; 2000 CP₂₈, 14, 3, 63; 2000 CZ₂₈, 4, 1, 0; 2000 CC₂₉, 7, 2, 8; 2000 CL₃₀, 5, 1, 0; 2000 CC₃₂, 27, 6, 71; 2000 CD₃₂, 4, 1, 0; 2000 CH₃₂, 4, 1, 0; 2000 CH₃₃, 4, 1, 0; 2000 CY₃₃, 13, 3, 2; 2000 CD₃₄, 3, 1, 0; 2000 CJ₃₄, 5, 1, 0; 2000 CK₃₄, 5, 1, 0; 2000 CQ₃₄, 8, 2, 3; 2000 CR₃₅, 8, 2, 138; 2000 CU₃₅, 9, 2, 5; 2000 CE₃₆, 5, 1, 0; 2000 CF₃₆, 4, 1, 0; 2000 CG₃₆, 5, 1, 0; 2000 CO₃₆, 13, 3, 5; 2000 CQ₃₆, 5, 1, 0; 2000 CR₃₆, 4, 1, 0; 2000 CS₃₆, 9, 2, 122; 2000 CU₃₆, 5, 1, 0; 2000 CV₃₆, 5, 1, 0; 2000 CY₃₆, 3, 1, 0; 2000 CZ₃₆, 10, 2, 3; 2000 CA₃₇, 9, 2, 36; 2000 CC₃₇, 5, 1, 0; 2000 CD₃₇, 5, 1, 0; 2000 CE₃₇, 5, 1, 0; 2000 CB₃₉, 8, 2, 8; 2000 CH₃₉, 8, 2, 58; 2000 CL₃₉, 12, 3, 13; 2000 CU₄₀, 7, 2, 6; 2000 CV₄₀, 24, 6, 11; 2000 CZ₄₀, 4, 1, 0; 2000 CH₄₁, 4, 1, 0; 2000 CB₄₃, 3, 1, 0; 2000 CO₄₃, 3, 1, 0; 2000 CQ₄₃, 14, 3, 91; 2000 CM₄₄, 5, 1, 0; 2000 CU₄₄, 9, 2, 56; 2000 CV₄₄, 9, 2, 1; 2000 CA₄₅, 24, 6, 110; 2000 CJ₄₅, 4, 1, 0; 2000 CN₄₅, 7, 2, 29; 2000 CP₄₅, 5, 1, 0; 2000 CR₄₅, 12, 3, 7; 2000 CW₄₅, 5, 1, 0; 2000 CX₄₅, 13, 3, 36; 2000 CH₄₆, 4, 1, 0; 2000 CL₄₆, 5, 1, 0; 2000 CN₄₆, 4, 1, 0; 2000 CT₄₇, 7, 2, 33; 2000 CZ₄₇, 5, 1, 0; 2000 CB₄₈, 5, 1, 0; 2000 CD₄₈, 7, 2, 117; 2000 CH₄₈, 15, 3, 143; 2000 CJ₄₈, 3, 1, 0; 2000 CK₄₈, 4, 1, 0; 2000 CM₄₈, 5, 1, 0; 2000 CT₄₈, 23, 5, 116; 2000 CV₄₈, 8, 2, 25; 2000 CY₄₈, 8, 1, 0; 2000 CB₄₉, 7, 2, 29; 2000 CF₄₉, 5, 1, 0; 2000 CK₄₉, 5, 1, 0; 2000 CR₄₉, 8, 2, 23; 2000 CS₄₉, 8, 2, 29; 2000 CV₄₉, 8, 2, 30; 2000 CC₅₀, 4, 1, 0; 2000 CJ₅₀, 3, 1, 0; 2000 CK₅₀, 5, 1, 0; 2000 CS₅₀, 12, 3, 68; 2000 CQ₅₀, 8, 2, 30; 2000 CU₅₀, 4, 1, 0; 2000 CY₅₀, 8, 2, 25; 2000 CA₅₁, 5, 1, 0; 2000 CE₅₁, 21, 6, 113; 2000 CF₅₁, 5, 1, 0; 2000 CG₅₁, 3, 1, 0; 2000 CH₅₁, 4, 1, 0; 2000 CJ₅₁, 3, 1, 0; 2000 CK₅₁, 10, 2, 28; 2000 CL₅₁, 18, 4, 87; 2000 CM₅₁, 3, 1, 0; 2000 CN₅₁, 8, 2, 35; 2000 CO₅₁, 9, 2, 483; 2000 CY₅₁, 5, 1, 0; 2000 CZ₅₁, 5, 1, 0; 2000 CA₅₂, 4, 1, 0; 2000 CF₅₂, 4, 1, 0; 2000 CJ₅₂, 4, 1, 0; 2000 CL₅₂, 41, 9, 889; 2000 CN₅₂, 18, 5, 68; 2000 CP₅₂, 8, 2, 12; 2000 CS₅₂, 6, 2, 35; 2000 CU₅₂, 8, 2, 28; 2000 CV₅₂, 5, 1, 0; 2000 CW₅₂, 14, 4, 58; 2000 CX₅₂, 5, 1, 0; 2000 CY₅₂, 7, 2, 3; 2000 CA₅₃, 4, 1, 0; 2000 CB₅₃, 4, 1, 0; 2000 CD₅₃, 4, 1, 0; 2000 CH₅₃, 4, 1, 0; 2000 CJ₅₃, 5, 1, 0; 2000 CK₅₃, 4, 1, 0; 2000 CL₅₃, 5, 1, 0; 2000 CN₅₃, 8, 2, 3; 2000 CO₅₃, 7, 2, 6; 2000 CP₅₃, 8, 2, 27; 2000 CQ₅₃, 13, 3, 507; 2000 CR₅₃, 3, 1, 0; 2000 CS₅₃, 13, 2, 5; 2000 CT₅₃, 10, 2, 4; 2000 CB₅₄, 7, 2, 30; 2000 CN₅₄, 5, 1, 0; 2000 CU₅₄, 16, 4, 46; 2000 CS₅₄, 5, 1, 0; 2000 CU₅₄, 3, 1, 0; 2000 CJ₅₆, 8, 2, 7; 2000 CN₅₆, 10, 2, 1; 2000 CW₅₆, 6, 2, 7; 2000 CP₅₇, 4, 1, 0; 2000 CV₅₇, 9, 2, 11; 2000 CW₅₇, 5, 1, 0; 2000 CY₅₇, 14, 3, 36; 2000 CZ₅₇, 19, 4, 62; 2000 CA₅₈, 5, 1, 0; 2000 CB₅₈, 5, 1, 0; 2000 CC₅₈, 15, 3, 10; 2000 CD₅₈, 27, 5, 91; 2000 CE₅₈, 25, 6, 91; 2000 CF₅₈, 25, 6, 96; 2000 CG₅₈, 32, 7, 91; 2000 CH₅₈, 18, 4, 15; 2000 CL₅₈, 30, 6, 518; 2000 CM₅₈, 18, 4, 36; 2000 CN₅₈, 32, 7, 62; 2000 CO₅₈, 26, 6, 96; 2000 CP₅₈, 20, 4, 15; 2000 CQ₅₈, 18, 4, 32; 2000 CS₅₈, 5, 1, 0; 2000 CU₅₈, 7, 2, 5; 2000 CC₅₉, 14, 3, 11; 2000 CM₅₉, 25, 4, 6; 2000 CQ₆₀, 3, 1, 0; 2000 CS₆₀, 5, 1, 0; 2000 CZ₆₀, 8, 2, 25; 2000 CB₆₁, 9, 2, 111; 2000 CF₆₁, 6, 12; 2000 CG₆₁, 9, 2, 30; 2000 CK₆₁, 7, 2, 460; 2000 CM₆₁, 19, 4, 28; 2000 CO₆₁, 16, 4, 57; 2000 CT₆₁, 19, 4, 891; 2000 CU₆₁, 5, 1, 0; 2000 CV₆₁, 3, 1, 0; 2000 CW₆₁, 9, 2, 4; 2000 CY₆₁, 24, 6, 860; 2000 CZ₆₁, 11, 3, 27; 2000 CB₆₂, 5, 1, 0; 2000 CD₆₂, 9, 2, 28; 2000 CE₆₂, 14, 3, 57; 2000 CF₆₂, 4, 1, 0; 2000 CG₆₂, 3, 1, 0; 2000 CK₆₂, 9, 2, 3; 2000 CL₆₂, 20, 4, 61; 2000 CM₆₂, 19, 4, 111; 2000 CN₆₂, 23, 5, 88; 2000 CO₆₂, 4, 1, 0; 2000 CP₆₂, 9, 2, 30; 2000 CT₆₂, 3, 1, 0; 2000 CV₆₂, 3, 1, 0; 2000 CX₆₂, 19, 4, 61; 2000 CY₆₂, 19, 4, 94; 2000 CZ₆₂, 12, 3, 2; 2000 CD₆₃, 13, 3, 39; 2000 CE₆₃, 5, 1, 0; 2000 CG₆₃, 4, 1, 0; 2000 CH₆₃, 4, 1, 0; 2000 CJ₆₃, 10, 2, 124; 2000 CK₆₃, 10, 2, 4; 2000 CN₆₃, 8, 2, 93; 2000 CQ₆₃, 5, 1, 0; 2000 CR₆₃, 8, 2, 4; 2000 CS₆₃, 15, 3, 3; 2000 CC₆₃, 5, 1, 0; 2000 CZ₆₃, 13, 3, 2; 2000 CA₆₄, 5, 1, 0; 2000 CB₆₄, 14, 3, 11; 2000 CC₆₄, 3, 1, 0; 2000 CS₆₅, 4, 1, 0; 2000 CW₆₅, 19, 4, 4; 2000 CG₆₆, 25, 5, 5; 2000 CB₆₇, 19, 3, 3; 2000 CH₆₇, 13, 3, 11; 2000 CR₆₈, 4, 1, 0; 2000 CB₇₀, 9, 2, 3; 2000 CF₇₀, 5, 1, 0; 2000 CH₇₀, 5, 1, 0; 2000 CK₇₀, 5, 1, 0; 2000 CL₇₀, 10, 2, 4; 2000 CM₇₀, 14, 3, 31; 2000 CQ₇₀, 7, 2, 26; 2000 CS₇₀, 7, 2, 87; 2000 CV₇₀, 15, 4, 31; 2000 CW₇₀, 14, 3, 62; 2000 CY₇₀, 20, 4, 88; 2000 CA₇₁, 11, 3, 31; 2000 CD₇₁, 5, 1, 0; 2000 CE₇₁, 7, 2, 93; 2000 CG₇₁, 10, 2, 4; 2000 CH₇₁, 5, 1, 0; 2000 CJ₇₁, 8, 2, 1; 2000 CL₇₁, 28, 5, 96; 2000 CM₇₁, 11, 3, 4; 2000 CN₇₁, 9, 2, 4; 2000 CO₇₁, 13, 3, 11; 2000 CP₇₁, 10, 2, 4; 2000 CR₇₁, 5, 1, 0; 2000 CH₇₂, 15, 3, 10; 2000 CP₇₂, 4, 1, 0; 2000 CE₇₃, 9, 2, 2; 2000 CP₇₅, 4, 1, 0; 2000 CQ₇₅, 14, 3, 11; 2000 CS₇₅, 4, 1, 0; 2000 CT₇₅, 5, 1, 0; 2000 CU₇₅, 15, 3, 87; 2000 CV₇₆, 17, 4, 10; 2000 CE₇₆, 5, 1, 0; 2000 CN₇₆, 5, 1, 0; 2000 CQ₇₆, 4, 1, 0; 2000 CS₇₆, 5, 1, 0; 2000 CU₇₆, 5, 1, 0; 2000 CX₇₆, 5, 1, 0; 2000 CY₇₆, 9, 2, 3; 2000 CZ₇₆, 3, 1, 0; 2000 CB₇₇, 18, 3, 3; 2000 CC₇₇, 12, 3, 5; 2000 CD₇₇, 28, 5, 4; 2000 CE₇₇, 4, 1, 0; 2000 CF₇₇, 20, 3, 5; 2000 CG₇₇, 16, 3, 3; 2000 CM₇₈, 5, 1, 0; 2000 CR₇₉, 4, 1, 0; 2000 CV₇₉, 9, 2, 6; 2000 CY₇₉, 9, 2, 8; 2000 CC₈₀, 9, 2, 8; 2000 CY₈₀, 13, 3, 2; 2000 CX₈₁, 9, 2, 2; 2000 CE₈₂, 3, 1, 0; 2000 CU₈₂, 4, 1, 0; 2000 CN₈₃, 9, 2, 5; 2000 CP₈₃, 5, 1, 0; 2000 CR₈₃, 3, 1, 0; 2000 CT₈₃, 4, 1, 0; 2000 CB₈₄, 8, 2, 145; 2000 CY₈₄, 8, 2, 7; 2000 CG₈₅, 10, 2, 450; 2000 CK₈₅, 4, 1, 0; 2000 CP₈₅, 15, 2, 7; 2000 CQ₈₅, 13, 3, 7; 2000 CU₈₅, 10, 1, 0; 2000 CV₈₅, 5, 1, 0; 2000 CY₈₅, 8, 2, 2; 2000 CA₈₆, 3, 1, 0; 2000 CK₈₆, 5, 1, 0; 2000 CP₈₆, 4, 1, 0; 2000 CD₈₆, 3, 1, 0; 2000 CW₈₆, 5, 1, 0; 2000 CX₈₆, 5, 1, 0; 2000 CZ₈₆, 10, 2, 5; 2000 CB₈₇, 4, 1, 0; 2000 CD₈₇, 5, 1, 0; 2000 CH₈₇, 4, 1, 0; 2000 CK₈₇, 5, 1, 0; 2000 CL₈₇, 5, 1, 0; 2000 CM₈₇, 5, 1, 0; 2000 CN₈₇, 3, 1, 0; 2000 CD₈₈, 7, 2, 2; 2000 CH₈₈, 6, 2, 114; 2000 CL₈₈, 9, 2, 6; 2000 CM₈₈, 9, 2, 7; 2000 CN₈₈, 5, 1, 0; 2000 CO₈₈, 8, 2, 6; 2000 CT₈₈, 5, 1, 0; 2000 CU₈₈, 4, 1, 0; 2000 CV₈₈, 5, 1, 0; 2000 CW₈₈, 13, 3, 11; 2000 CX₈₈, 10, 2, 22; 2000 CZ₈₈, 5, 1, 0; 2000 CA₈₉, 14, 3, 27; 2000 CB₈₉, 12, 3, 11; 2000 CC₈₉, 24, 5, 892; 2000 CD₈₉, 22, 5, 93; 2000 CE₈₉, 22, 5, 94; 2000 CF₈₉, 21, 5, 39; 2000 CG₈₉, 8, 2, 7; 2000 CH₈₉, 3, 1, 0; 2000 CL₈₉, 4, 1, 0; 2000 CN₈₉, 5, 1, 0; 2000 CP₈₉, 13, 3, 22; 2000 CQ₈₉,

20, 3, 32; 2000 CS₈₉, 13, 3, 11; 2000 CT₈₉, 10, 2, 22; 2000 CO₉₀, 5, 1, 0; 2000 CU₉₀, 14, 3, 10; 2000 CA₉₁, 4, 1, 0; 2000 CB₉₁, 5, 1, 0; 2000 CC₉₁, 4, 1, 0; 2000 CE₉₁, 5, 1, 0; 2000 CF₉₁, 8, 2, 6; 2000 CG₉₁, 3, 1, 0; 2000 CH₉₁, 5, 1, 0; 2000 CJ₉₁, 4, 1, 0; 2000 CL₉₁, 5, 1, 0; 2000 CN₉₁, 5, 1, 0; 2000 CO₉₁, 8, 2, 6; 2000 CR₉₁, 3, 1, 0; 2000 CS₉₁, 3, 1, 0; 2000 CT₉₁, 5, 1, 0; 2000 CU₉₁, 5, 1, 0; 2000 CV₉₁, 4, 1, 0; 2000 CW₉₁, 10, 2, 507; 2000 CZ₉₁, 5, 1, 0; 2000 CA₉₂, 5, 1, 0; 2000 CB₉₂, 5, 1, 0; 2000 CC₉₂, 4, 1, 0; 2000 CD₉₂, 7, 2, 4; 2000 CE₉₂, 14, 3, 23; 2000 CJ₉₂, 20, 5, 10; 2000 CK₉₂, 8, 2, 3; 2000 CL₉₂, 8, 1, 0; 2000 CM₉₂, 11, 2, 1; 2000 CN₉₂, 8, 1, 0; 2000 CO₉₂, 8, 1, 0; 2000 CP₉₂, 8, 2, 6; 2000 CQ₉₂, 12, 2, 1; 2000 CT₉₂, 21, 4, 13; 2000 CU₉₂, 15, 3, 3; 2000 CV₉₂, 19, 4, 86; 2000 CX₉₂, 20, 5, 127; 2000 CY₉₂, 19, 4, 487; 2000 CZ₉₂, 12, 3, 27; 2000 CB₉₃, 23, 5, 4; 2000 CC₉₃, 16, 4, 4; 2000 CD₉₃, 14, 3, 27; 2000 CE₉₃, 41, 8, 27; 2000 CF₉₃, 22, 5, 29; 2000 CG₉₃, 24, 6, 1069; 2000 CH₉₃, 22, 5, 91; 2000 CK₉₃, 32, 7, 16; 2000 CL₉₃, 9, 2, 6; 2000 CN₉₃, 20, 4, 15; 2000 CO₉₃, 20, 4, 15; 2000 CS₉₃, 13, 2, 57; 2000 CB₉₄, 3, 1, 0; 2000 CC₉₄, 19, 4, 4; 2000 CD₉₄, 19, 5, 6; 2000 CE₉₄, 14, 3, 11; 2000 CF₉₄, 23, 4, 4; 2000 CG₉₄, 16, 4, 13; 2000 CH₉₄, 18, 4, 91; 2000 CJ₉₄, 18, 4, 6; 2000 CL₉₄, 19, 4, 13; 2000 CM₉₄, 17, 4, 16; 2000 CN₉₄, 17, 4, 6; 2000 CO₉₄, 31, 7, 482; 2000 CP₉₄, 16, 4, 6; 2000 CQ₉₄, 18, 4, 27; 2000 CR₉₄, 20, 4, 4; 2000 CS₉₄, 23, 5, 15; 2000 CT₉₄, 19, 4, 27; 2000 CU₉₄, 25, 5, 33; 2000 CV₉₄, 5, 1, 0; 2000 CX₉₄, 3, 1, 0; 2000 CY₉₄, 33, 7, 517; 2000 CZ₉₄, 25, 5, 94; 2000 CA₉₅, 25, 5, 32; 2000 CC₉₅, 24, 5, 434; 2000 CD₉₅, 10, 2, 1; 2000 CF₉₅, 9, 2, 1; 2000 CG₉₅, 13, 3, 9; 2000 CH₉₅, 15, 3, 2; 2000 CO₉₆, 39, 9, 514; 2000 CT₉₆, 4, 1, 0; 2000 CX₉₆, 22, 5, 476; 2000 CY₉₆, 12, 3, 40; 2000 CZ₉₆, 4, 1, 0; 2000 CE₉₇, 14, 3, 2; 2000 CG₉₇, 6, 2, 1; 2000 CH₉₇, 23, 5, 12; 2000 CJ₉₇, 4, 1, 0; 2000 CK₉₇, 9, 2, 5; 2000 CM₉₇, 6, 2, 5; 2000 CO₉₇, 4, 1, 0; 2000 CR₉₇, 20, 3, 5; 2000 CD₉₈, 5, 1, 0; 2000 CG₁₀₀, 10, 2, 6; 2000 CQ₁₀₀, 5, 1, 0; 2000 CU₁₀₁, 9, 2, 6; 2000 CW₁₀₁, 3, 1, 0; 2000 CX₁₀₁, 8, 2, 6; 2000 CY₁₀₁, 20, 4, 5; 2000 CU₁₀₂, 11, 3, 31; 2000 CW₁₀₂, 20, 4, 6; 2000 CY₁₀₂, 5, 1, 0; 2000 CF₁₀₃, 5, 1, 0; 2000 CG₁₀₃, 13, 3, 11; 2000 CK₁₀₃, 8, 2, 110; 2000 CL₁₀₃, 4, 1, 0; 2000 CP₁₀₃, 14, 3, 62; 2000 CQ₁₀₃, 14, 3, 5; 2000 CR₁₀₃, 5, 1, 0; 2000 CS₁₀₃, 4, 1, 0; 2000 CT₁₀₃, 5, 1, 0; 2000 CU₁₀₃, 3, 1, 0; 2000 CF₁₀₄, 3, 1, 0; 2000 CK₁₀₄, 26, 5, 65; 2000 CR₁₀₆, 5, 1, 0; 2000 CS₁₀₆, 3, 1, 0; 2000 CV₁₀₆, 5, 1, 0; 2000 CX₁₀₆, 10, 1, 0; 2000 CY₁₀₆, 3, 1, 0; 2000 CZ₁₀₆, 5, 1, 0; 2000 CA₁₀₇, 3, 1, 0; 2000 CB₁₀₇, 5, 1, 0; 2000 CA₁₀₈, 5, 1, 0; 2000 CB₁₀₈, 5, 1, 0; 2000 CC₁₀₈, 4, 1, 0; 2000 CD₁₀₈, 3, 1, 0; 2000 CE₁₀₈, 5, 1, 0; 2000 CF₁₀₈, 4, 1, 0; 2000 CG₁₀₈, 5, 1, 0; 2000 CH₁₀₈, 5, 1, 0; 2000 CJ₁₀₈, 4, 1, 0; 2000 CK₁₀₈, 4, 1, 0; 2000 CL₁₀₈, 5, 1, 0; 2000 CM₁₀₈, 5, 1, 0; 2000 CN₁₀₈, 4, 1, 0; 2000 CO₁₀₈, 5, 1, 0; 2000 CP₁₀₈, 5, 1, 0; 2000 CQ₁₀₈, 5, 1, 0; 2000 CR₁₀₈, 5, 1, 0; 2000 CS₁₀₈, 5, 1, 0; 2000 CT₁₀₈, 5, 1, 0; 2000 CU₁₀₈, 5, 1, 0; 2000 CV₁₀₈, 4, 1, 0; 2000 CE₁₀₉, 8, 2, 28; 2000 CF₁₀₉, 3, 1, 0; 2000 CG₁₀₉, 5, 1, 0; 2000 CH₁₀₉, 5, 1, 0; 2000 CJ₁₀₉, 5, 1, 0; 2000 CK₁₀₉, 3, 1, 0; 2000 CR₁₀₉, 5, 1, 0; 2000 CT₁₀₉, 5, 1, 0; 2000 CD₁₁₀, 5, 1, 0; 2000 CO₁₁₀ *, 5, 1, 0; 2000 CP₁₁₀ *, 5, 1, 0; 2000 CQ₁₁₀ *, 5, 1, 0; 2000 CR₁₁₀ *, 4, 1, 0; 2000 CS₁₁₀, 5, 1, 0; 2000 CT₁₁₀, 5, 1, 0; 2000 CU₁₁₀, 4, 1, 0; 2000 CV₁₁₀, 5, 1, 0; 2000 CW₁₁₀, 4, 1, 0; 2000 CG₁₁₁, 5, 1, 0; 2000 CJ₁₁₁, 5, 1, 0; 2000 CK₁₁₁, 5, 1, 0; 2000 CL₁₁₁, 5, 1, 0; 2000 CM₁₁₁, 3, 1, 0; 2000 CN₁₁₁, 4, 1, 0; 2000 CO₁₁₁, 10, 2, 8; 2000 CP₁₁₁, 16, 4, 35; 2000 CQ₁₁₁, 3, 1, 0; 2000 CR₁₁₁, 5, 1, 0; 2000 CS₁₁₁, 3, 1, 0; 2000 CT₁₁₁, 5, 1, 0; 2000 CU₁₁₁, 4, 1, 0; 2000 CV₁₁₁ *, 18, 4, 67; 2000 CW₁₁₁, 3, 1, 0; 2000 CX₁₁₁, 3, 1, 0; 2000 CY₁₁₁, 4, 1, 0; 2000 CZ₁₁₁, 8, 2, 28; 2000 CA₁₁₂, 4, 1, 0; 2000 CB₁₁₂, 4, 1, 0; 2000 CC₁₁₂, 4, 1, 0; 2000 CD₁₁₂, 3, 1, 0; 2000 CE₁₁₂, 3, 1, 0; 2000 CF₁₁₂, 5, 1, 0; 2000 CG₁₁₂, 4, 1, 0; 2000 CH₁₁₂, 11, 3, 29; 2000 CJ₁₁₂, 5, 1, 0; 2000 CK₁₁₂, 4, 1, 0; 2000 CL₁₁₂, 4, 1, 0; 2000 CM₁₁₂, 3, 1, 0; 2000 CN₁₁₂, 4, 1, 0; 2000 CO₁₁₂, 4, 1, 0; 2000 CQ₁₁₂, 4, 1, 0; 2000 CR₁₁₂, 4, 1, 0; 2000 CS₁₁₂, 5, 1, 0; 2000 CT₁₁₂, 4, 1, 0; 2000 CU₁₁₂, 5,

2000 APR. 18

M.P.C. 39769

0; 2000 DQ₈, 4, 1, 0; 2000 DR₈, 38, 7, 93; 2000 DS₈, 8, 2, 1; 2000 DA₁₁, 3, 1, 0; 2000 DJ₁₁, 5, 1, 0; 2000 DK₁₁, 16, 4, 6; 2000 DR₁₁, 8, 2, 1; 2000 DU₁₁, 10, 2, 1; 2000 DV₁₁, 4, 1, 0; 2000 DX₁₁, 7, 2, 2; 2000 DY₁₁, 9, 2, 1; 2000 DG₁₂, 7, 2, 1; 2000 DH₁₂, 14, 3, 2; 2000 DJ₁₂, 12, 3, 26; 2000 DK₁₂, 9, 2, 1; 2000 DQ₁₂, 8, 2, 1; 2000 DV₁₂, 8, 2, 1; 2000 DJ₁₃, 21, 5, 6; 2000 DE₁₃, 8, 2, 4; 2000 DF₁₃, 8, 2, 61; 2000 DJ₁₃, 3, 1, 0; 2000 DQ₁₃, 18, 3, 474; 2000 DN₁₄, 21, 5, 83; 2000 DO₁₄, 3, 1, 0; 2000 DR₁₄, 4, 1, 0; 2000 DS₁₄, 8, 2, 6; 2000 DT₁₄, 9, 2, 6; 2000 DU₁₄, 8, 2, 6; 2000 DV₁₄, 10, 2, 5; 2000 DW₁₄, 10, 2, 30; 2000 DX₁₄, 12, 3, 11; 2000 DY₁₄, 8, 2, 6; 2000 DZ₁₄, 5, 1, 0; 2000 DA₁₅, 24, 5, 57; 2000 DE₁₅, 21, 5, 59; 2000 DH₁₅, 25, 6, 59; 2000 DJ₁₅, 6, 2, 5; 2000 DL₁₅, 13, 3, 57; 2000 DM₁₅, 5, 1, 0; 2000 DN₁₅, 12, 3, 11; 2000 DO₁₅, 26, 6, 11; 2000 DP₁₅, 29, 7, 93; 2000 DQ₁₅, 20, 4, 62; 2000 DR₁₅, 18, 4, 62; 2000 DS₁₅, 10, 3, 11; 2000 DT₁₅, 13, 3, 11; 2000 DV₁₅, 27, 5, 64; 2000 DY₁₅, 12, 3, 3; 2000 DZ₁₅, 29, 6, 59; 2000 DB₁₆, 14, 3, 2; 2000 DC₁₆, 39, 7, 511; 2000 DD₁₆, 22, 5, 93; 2000 DE₁₆, 20, 4, 12; 2000 DF₁₆, 30, 5, 12; 2000 DG₁₆, 19, 4, 12; 2000 DH₁₆, 24, 5, 5; 2000 DJ₁₆, 14, 3, 3; 2000 DK₁₆, 24, 5, 5; 2000 DL₁₆, 46, 10, 588; 2000 DM₁₆, 25, 5, 5; 2000 DN₁₆, 19, 3, 6; 2000 DQ₁₆, 4, 1, 0; 2000 DH₁₇, 8, 2, 23; 2000 DJ₁₇, 8, 2, 30; 2000 DO₁₇, 3, 1, 0; 2000 DQ₁₇, 5, 1, 0; 2000 DW₁₇, 8, 2, 33; 2000 DX₁₇, 14, 3, 482; 2000 DB₁₈, 4, 1, 0; 2000 DF₁₈, 8, 2, 25; 2000 DW₁₈, 4, 1, 0; 2000 DL₁₉, 4, 1, 0; 2000 DO₁₉, 4, 1, 0; 2000 DT₁₉, 10, 2, 8; 2000 DW₁₉, 8, 2, 59; 2000 DZ₁₉, 9, 2, 9; 2000 DU₂₀, 4, 1, 0; 2000 DW₂₀, 4, 1, 0; 2000 DM₂₁, 8, 2, 448; 2000 DN₂₁, 5, 1, 0; 2000 DP₂₁, 5, 1, 0; 2000 DF₂₂, 3, 1, 0; 2000 DK₂₂, 4, 1, 0; 2000 DQ₂₂, 3, 1, 0; 2000 DX₂₂, 5, 1, 0; 2000 DB₂₃, 4, 1, 0; 2000 DC₂₃, 9, 2, 8; 2000 DG₂₃, 7, 2, 2; 2000 DJ₂₃, 10, 2, 7; 2000 DQ₂₃, 4, 1, 0; 2000 DZ₂₃, 5, 1, 0; 2000 DB₂₄, 5, 1, 0; 2000 DF₂₄, 5, 1, 0; 2000 DH₂₄, 5, 1, 0; 2000 DJ₂₄, 20, 4, 64; 2000 DL₂₄, 4, 1, 0; 2000 DN₂₄, 4, 1, 0; 2000 DO₂₄, 3, 1, 0; 2000 DP₂₄, 8, 2, 8; 2000 DS₂₄, 3, 1, 0; 2000 DC₂₅, 9, 2, 2; 2000 DW₂₅, 8, 1, 0; 2000 DX₂₅, 13, 2, 7; 2000 DZ₂₅, 5, 1, 0; 2000 DE₂₆, 5, 1, 0; 2000 DH₂₆, 5, 1, 0; 2000 DM₂₆, 3, 1, 0; 2000 DP₂₆, 4, 1, 0; 2000 DS₂₆, 3, 1, 0; 2000 DT₂₆, 6, 2, 6; 2000 DA₂₇, 24, 6, 89; 2000 DD₂₇, 2, 9, 36; 2000 DB₂₉, 3, 1, 0; 2000 DK₂₉, 5, 1, 0; 2000 DS₂₉, 37, 5, 31; 2000 DV₂₉, 10, 2, 457; 2000 DV₃₁, 4, 1, 0; 2000 DH₃₂, 5, 1, 0; 2000 DP₃₂, 9, 2, 7; 2000 DC₃₂, 3, 1, 0; 2000 DA₃₃, 4, 1, 0; 2000 DJ₃₃, 19, 4, 451; 2000 DM₃₃, 3, 1, 0; 2000 DT₃₃, 5, 1, 0; 2000 DE₃₄, 4, 1, 0; 2000 DM₃₄, 9, 2, 7; 2000 DQ₃₅, 7, 2, 3; 2000 DU₃₅, 3, 1, 0; 2000 DL₃₆, 3, 1, 0; 2000 DO₃₆, 4, 1, 0; 2000 DE₃₇, 5, 1, 0; 2000 DG₃₇, 5, 1, 0; 2000 DN₃₇, 3, 1, 0; 2000 DE₃₈, 3, 1, 0; 2000 DU₃₈, 7, 2, 57; 2000 DP₃₉, 8, 2, 10; 2000 DB₄₀, 4, 1, 0; 2000 DK₄₀, 3, 1, 0; 2000 DN₄₀, 4, 1, 0; 2000 DW₄₀, 4, 1, 0; 2000 DA₄₁, 10, 2, 7; 2000 DD₄₂, 3, 1, 0; 2000 DL₄₂, 4, 1, 0; 2000 DM₄₂, 4, 1, 0; 2000 DR₄₂, 3, 1, 0; 2000 DV₄₂, 9, 2, 52; 2000 DW₄₂, 4, 1, 0; 2000 DH₄₃, 3, 1, 0; 2000 DO₄₃, 4, 1, 0; 2000 DX₄₃, 3, 1, 0; 2000 DD₄₄, 6, 2, 57; 2000 DF₄₄, 7, 2, 57; 2000 DM₄₄, 5, 1, 0; 2000 DP₄₅, 4, 1, 0; 2000 DB₄₆, 3, 1, 0; 2000 DK₄₆, 4, 1, 0; 2000 DN₄₆, 9, 2, 61; 2000 DA₄₇, 17, 4, 62; 2000 DX₄₈, 3, 1, 0; 2000 DK₅₀, 4, 1, 0; 2000 DK₅₁, 4, 1, 0; 2000 DW₅₁, 12, 3, 475; 2000 DA₅₂, 5, 1, 0; 2000 DD₅₂, 4, 1, 0; 2000 DE₅₂, 3, 1, 0; 2000 DX₅₂, 8, 2, 61; 2000 DC₅₃, 4, 1, 0; 2000 DG₅₃, 8, 2, 534; 2000 DH₅₃, 3, 1, 0; 2000 DS₅₃, 14, 3, 61; 2000 DN₅₄, 3, 1, 0; 2000 DP₅₄, 4, 1, 0; 2000 DK₅₅, 4, 1, 0; 2000 DM₅₅, 5, 1, 0; 2000 DV₅₅, 4, 1, 0; 2000 DX₅₅, 3, 1, 0; 2000 DB₅₆, 20, 5, 468; 2000 DP₅₆, 4, 1, 0; 2000 DG₅₆, 5, 1, 0; 2000 DH₅₆, 5, 1, 0; 2000 DK₅₈, 4, 1, 0; 2000 DT₅₈, 8, 2, 59; 2000 DU₅₈, 9, 2, 61; 2000 DL₆₀, 4, 1, 0; 2000 DP₆₀, 8, 2, 6; 2000 DS₆₀, 8, 2, 7; 2000 DT₆₀, 4, 1, 0; 2000 DU₆₀, 12, 3, 13; 2000 DX₆₀, 3, 1, 0; 2000 DB₆₁, 8, 2, 16; 2000 DD₆₁, 8, 2, 57; 2000 DU₆₁, 5, 1, 0; 2000 DY₆₁, 5, 1, 0; 2000 DZ₆₁, 3, 1, 0; 2000 DF₆₂, 4, 1, 0; 2000 DU₆₂, 16, 4, 514; 2000 DD₆₃, 4, 1, 0; 2000 DR₆₄, 4, 1, 0; 2000 DW₆₄, 9, 2, 61; 2000 DC₆₅, 3, 1, 0; 2000 DF₆₅, 9, 2, 88; 2000 DK₆₅, 7, 2, 59; 2000 DA₆₆, 9, 2, 6; 2000 DU₆₆, 9, 2, 52; 2000 DZ₆₆, 4, 1, 0; 2000 DH₆₇, 8, 2, 3; 2000 DB₆₈, 4, 1, 0; 2000 DC₆₈, 4, 1, 0; 2000 DX₆₈, 5, 1, 0; 2000 DK₆₈, 3, 1, 0; 2000 DU₆₈, 22, 5, 91; 2000 DV₆₈, 3, 1, 0; 2000 DY₆₈, 41, 8, 892; 2000 DA₆₉, 9, 2, 413; 2000 DC₆₉, 17, 4, 4; 2000 DD₆₉, 3, 1, 0; 2000 DF₆₉, 5, 1, 0; 2000 DG₆₉, 5, 1, 0; 2000 DH₆₉, 13, 3, 88; 2000 DJ₆₉, 5, 1, 0; 2000 DL₆₉, 5, 1, 0; 2000 DQ₆₉, 4, 1, 0; 2000 DR₆₉, 13, 2, 445; 2000 DU₆₉, 9, 2, 54; 2000 DW₆₉, 7, 2, 54; 2000 DB₇₀, 5, 1, 0; 2000 DC₇₀, 4, 1, 0; 2000 DK₇₀, 10, 2, 22; 2000 DM₇₀, 5, 1, 0; 2000 DQ₇₀, 4, 1, 0; 2000 DU₇₀, 5, 1, 0; 2000 DW₇₀, 5, 1, 0; 2000 DY₇₀, 4, 1, 0; 2000 DC₇₁, 16, 4, 59; 2000 DD₇₁, 3, 1, 0; 2000 DF₇₁, 8, 2, 1; 2000 DJ₇₁, 8, 2, 1; 2000 DK₇₁, 5, 1, 0; 2000 DO₇₁, 18, 4, 478; 2000 DP₇₁, 21, 4, 3; 2000 DQ₇₁, 13, 3, 2; 2000 DR₇₁, 9, 2, 1; 2000 DS₇₁, 4, 1, 0; 2000 DT₇₁, 8, 2, 1; 2000 DU₇₁, 9, 2, 1; 2000 DW₇₁, 7, 2, 1; 2000 DX₇₁, 4, 1, 0; 2000 DZ₇₁, 4, 1, 0; 2000 DA₇₂, 3, 1, 0; 2000 DB₇₂, 8, 2, 1; 2000 DL₇₂, 3, 1, 0; 2000 DO₇₂, 8, 2, 1; 2000 DP₇₂, 3, 1, 0; 2000 DT₇₂, 12, 2, 1; 2000 DW₇₂, 7, 2, 1; 2000 DX₇₂, 4, 1, 0; 2000 DY₇₂, 23, 5, 598; 2000 DZ₇₂, 7, 2, 1; 2000 DA₇₃, 9, 2, 1; 2000 DB₇₃, 4, 1, 0; 2000 DC₇₃, 7, 2, 583; 2000 DD₇₃, 9, 2, 1; 2000 DH₇₃, 8, 2, 1; 2000 DK₇₃, 7, 2, 1; 2000 DM₇₃, 3, 1, 0; 2000 DN₇₃, 17, 3, 26; 2000 DO₇₃, 9, 2, 1; 2000 DP₇₃, 12, 3, 26; 2000 DQ₇₃, 20, 5, 57; 2000 DS₇₃, 8, 1, 0; 2000 DU₇₃, 3, 1, 0; 2000 DW₇₃, 17, 4, 3; 2000 DX₇₃, 23, 4, 3; 2000 DY₇₃, 10, 3, 2; 2000 DZ₇₃, 4, 1, 0; 2000 DA₇₄, 3, 1, 0; 2000 DC₇₄, 15, 2, 1; 2000 DD₇₄, 8, 2, 1; 2000 DE₇₄, 15, 3, 26; 2000 DF₇₄, 10, 3, 3; 2000 DG₇₄, 8, 2, 1; 2000 DH₇₄, 14, 3, 87; 2000 DJ₇₄, 5, 1, 0; 2000 DK₇₄, 10, 2, 3; 2000 DL₇₄, 5, 1, 0; 2000 DM₇₄, 8, 2, 1; 2000 DP₇₄, 9, 2, 1; 2000 DR₇₄, 21, 5, 4; 2000 DS₇₄, 10, 2, 2; 2000 DT₇₄, 22, 5, 60; 2000 DU₇₄, 10, 2, 1; 2000 DV₇₄, 32, 6, 514; 2000 DW₇₄, 4, 1, 0; 2000 DX₇₄, 4, 1, 0; 2000 DY₇₄, 17, 4, 6; 2000 DB₇₅, 5, 1, 0; 2000 DD₇₅, 7, 2, 4; 2000 DE₇₅, 3, 1, 0; 2000 DF₇₅, 20, 5, 29; 2000 DG₇₅, 19, 4, 4; 2000 DJ₇₅, 20, 4, 4; 2000 DN₇₅, 5, 1, 0; 2000 DQ₇₅, 5, 1, 0; 2000 DR₇₅, 5, 1, 0; 2000 DV₇₅, 4, 1, 0; 2000 DW₇₅, 4, 1, 0; 2000 DB₇₆, 4, 1, 0; 2000 DD₇₆, 4, 1, 0; 2000 DJ₇₆, 3, 1, 0; 2000 DL₇₆, 5, 1, 0; 2000 DM₇₆, 3, 1, 0; 2000 DS₇₆, 5, 1, 0; 2000 DV₇₆, 8, 2, 1; 2000 DW₇₆, 7, 2, 3; 2000 DF₇₇, 14, 3, 52; 2000 DO₇₇, 7,

2, 52; 2000 DP₇₇, 3, 1, 0; 2000 DY₇₇, 4, 1, 0; 2000 DZ₇₇, 7, 2, 1; 2000 DA₇₈, 10, 1, 0; 2000 DB₇₈, 5, 1, 0; 2000 DC₇₈, 5, 1, 0; 2000 DD₇₈, 10, 2, 25; 2000 DE₇₈, 5, 1, 0; 2000 DJ₇₈, 11, 3, 26; 2000 DL₇₈, 22, 4, 4; 2000 DS₇₈, 8, 1, 0; 2000 DU₇₈, 12, 2, 1; 2000 DV₇₈, 9, 2, 5; 2000 DX₇₈, 12, 3, 2; 2000 DZ₇₈, 8, 2, 1; 2000 DA₇₉, 29, 6, 473; 2000 DB₇₉, 29, 5, 62; 2000 DC₇₉, 14, 3, 28; 2000 DF₇₉, 3, 1, 0; 2000 DG₇₉, 10, 2, 7; 2000 DN₇₉, 5, 1, 0; 2000 DV₇₉, 9, 2, 8; 2000 DO₈₀, 10, 2, 8; 2000 DD₈₁, 5, 1, 0; 2000 DB₈₂, 5, 1, 0; 2000 DP₈₂, 16, 4, 117; 2000 DX₈₂, 10, 2, 30; 2000 DA₈₃, 10, 2, 8; 2000 DB₈₃, 15, 3, 35; 2000 DD₈₃, 8, 2, 8; 2000 DK₈₃, 4, 1, 0; 2000 DM₈₃, 25, 4, 35; 2000 DO₈₃, 5, 1, 0; 2000 DR₈₃, 10, 2, 8; 2000 DT₈₃, 4, 1, 0; 2000 DN₈₄, 8, 2, 30; 2000 DO₈₄, 10, 2, 8; 2000 DQ₈₄, 10, 2, 8; 2000 DY₈₄, 9, 2, 8; 2000 DZ₈₄, 4, 1, 0; 2000 DE₈₅, 9, 2, 8; 2000 DJ₈₅, 4, 1, 0; 2000 DL₈₅, 10, 2, 30; 2000 DN₈₅, 5, 1, 0; 2000 DO₈₅, 5, 1, 0; 2000 DR₈₅, 13, 3, 38; 2000 DT₈₅, 9, 2, 8; 2000 DE₈₆, 14, 3, 38; 2000 DJ₈₆, 5, 1, 0; 2000 DL₈₆, 15, 3, 38; 2000 DO₈₆, 14, 3, 61; 2000 DV₈₆, 5, 1, 0; 2000 DD₈₇, 5, 1, 0; 2000 DL₈₇, 7, 2, 8; 2000 DY₈₇, 8, 2, 8; 2000 DD₈₈, 4, 1, 0; 2000 DE₈₈, 8, 2, 46; 2000 DF₈₈, 14, 3, 59; 2000 DH₈₈, 12, 3, 52; 2000 DQ₈₈, 3, 1, 0; 2000 DX₈₈, 5, 1, 0; 2000 DZ₈₉, 3, 1, 0; 2000 DH₉₁, 8, 2, 31; 2000 DJ₉₁, 4, 1, 0; 2000 DT₉₁, 5, 1, 0; 2000 DC₉₂, 30, 6, 6; 2000 DD₉₂, 9, 2, 1; 2000 DF₉₂, 8, 2, 2; 2000 DK₉₂, 8, 2, 1; 2000 DL₉₂, 19, 4, 6; 2000 DM₉₂, 29, 6, 6; 2000 DN₉₂, 20, 4, 6; 2000 DQ₉₂, 3, 1, 0; 2000 DY₉₂, 9, 2, 8; 2000 DM₉₃, 10, 2, 8; 2000 DS₉₃, 10, 2, 8; 2000 DT₉₃, 9, 2, 8; 2000 DU₉₃, 5, 1, 0; 2000 DV₉₃, 8, 2, 8; 2000 DZ₉₃, 10, 2, 8; 2000 DA₉₄, 10, 2, 8; 2000 DB₉₄, 5, 1, 0; 2000 DG₉₄, 13, 3, 457; 2000 DH₉₄, 9, 2, 27; 2000 DL₉₄, 3, 1, 0; 2000 DS₉₄, 4, 1, 0; 2000 DU₉₄, 9, 2, 7; 2000 DW₉₄, 13, 3, 38; 2000 DA₉₅, 14, 3, 38; 2000 DD₉₅, 5, 1, 0; 2000 DG₉₅, 4, 1, 0; 2000 DZ₉₅, 5, 1, 0; 2000 DD₉₆, 17, 4, 35; 2000 DE₉₆, 9, 2, 8; 2000 DJ₉₆, 15, 3, 24; 2000 DQ₉₆, 19, 4, 62; 2000 DD₉₇, 5, 1, 0; 2000 DL₉₇, 5, 1, 0; 2000 DM₉₇, 13, 3, 36; 2000 DP₉₇, 4, 1, 0; 2000 DT₉₇, 7, 2, 8; 2000 DU₉₇, 26, 6, 507; 2000 DY₉₇, 9, 2, 30; 2000 DN₉₈, 10, 2, 8; 2000 DO₉₈, 5, 1, 0; 2000 DV₉₈, 8, 2, 8; 2000 DA₉₉, 8, 2, 8; 2000 DC₉₉, 5, 1, 0; 2000 DP₉₉, 4, 1, 0; 2000 DT₉₉, 10, 2, 8; 2000 DU₉₉, 8, 2, 6; 2000 DV₉₉, 5, 1, 0; 2000 DW₉₉, 5, 1, 0; 2000 DC₁₀₀, 5, 1, 0; 2000 DD₁₀₀, 9, 2, 14; 2000 DE₁₀₀, 15, 4, 45; 2000 DH₁₀₀, 13, 3, 52; 2000 DN₁₀₀, 15, 4, 52; 2000 DQ₁₀₀, 4, 1, 0; 2000 DR₁₀₀, 5, 1, 0; 2000 DT₁₀₀, 9, 2, 7; 2000 DX₁₀₀, 5, 1, 0; 2000 DA₁₀₁, 3, 1, 0; 2000 DB₁₀₁, 3, 1, 0; 2000 DC₁₀₁, 12, 3, 60; 2000 DJ₁₀₁, 19, 4, 59; 2000 DE₁₀₁, 9, 2, 6; 2000 DH₁₀₁, 4, 1, 0; 2000 DJ₁₀₁, 3, 1, 0; 2000 DM₁₀₁, 23, 5, 59; 2000 DO₁₀₁, 8, 2, 7; 2000 DX₁₀₁, 3, 1, 0; 2000 DZ₁₀₁, 9, 2, 53; 2000 DB₁₀₂, 22, 5, 59; 2000 DD₁₀₂, 7, 2, 7; 2000 DL₁₀₂, 4, 1, 0; 2000 DM₁₀₂, 8, 2, 7; 2000 DO₁₀₂, 4, 1, 0; 2000 DP₁₀₂, 3, 1, 0; 2000 DS₁₀₂, 3, 1, 0; 2000 DX₁₀₂, 4, 1, 0; 2000 DA₁₀₃, 17, 4, 53; 2000 DC₁₀₃, 9, 2, 53; 2000 DF₁₀₃, 4, 1, 0; 2000 DJ₁₀₃, 4, 1, 0; 2000 DP₁₀₃, 8, 2, 6; 2000 DR₁₀₃, 8, 2, 6; 2000 DT₁₀₃, 9, 2, 6; 2000 DU₁₀₃, 5, 1, 0; 2000 DV₁₀₃, 13, 3, 52; 2000 DF₁₀₄, 8, 2, 504; 2000 DK₁₀₄, 5, 1, 0; 2000 DL₁₀₄, 5, 1, 0; 2000 DM₁₀₄, 3, 1, 0; 2000 DX₁₀₄, 3, 1, 0; 2000 DH₁₀₅, 5, 1, 0; 2000 DL₁₀₅, 4, 1, 0; 2000 DO₁₀₅, 5, 1, 0; 2000 DP₁₀₅, 5, 1, 0; 2000 DQ₁₀₅, 4, 1, 0; 2000 DW₁₀₅, 4, 1, 0; 2000 DY₁₀₅, 13, 3, 64; 2000 DC₁₀₆, 3, 1, 0; 2000 DE₁₀₆, 5, 1, 0; 2000 DH₁₀₆, 5, 1, 0; 2000 DJ₁₀₆, 4, 1, 0; 2000 DO₁₀₆, 13, 3, 57; 2000 DS₁₀₆, 3, 1, 0; 2000 DT₁₀₆, 10, 2, 5; 2000 DU₁₀₆, 19, 4, 57; 2000 DW₁₀₆, 13, 3, 11; 2000 DY₁₀₆, 5, 1, 0; 2000 DA₁₀₇, 3, 1, 0; 2000 DB₁₀₇, 7, 2, 6; 2000 DC₁₀₇, 6, 2, 5; 2000 DE₁₀₇, 3, 1, 0; 2000 DF₁₀₇, 13, 3, 6, 27; 2000 DG₁₀₇, 14, 3, 11; 2000 DH₁₀₇, 13, 3, 11; 2000 DL₁₀₇, 14, 3, 5; 2000 DO₁₀₇, 10, 2, 24; 2000 DV₁₀₇, 7, 2, 36; 2000 DZ₁₀₇, 9, 2, 8; 2000 DA₁₀₈, 10, 2, 8; 2000 DC₁₀₈, 8, 2, 8; 2000 DH₁₀₈, 8, 2, 38; 2000 DV₁₀₈, 3, 1, 0; 2000 DX₁₀₈, 8, 2, 27; 2000 DF₁₁₀, 5, 1, 0; 2000 DG₁₁₀, 24, 5, 93; 2000 DH₁₁₀, 15, 3, 5; 2000 DK₁₁₀, 4, 1, 0; 2000 DL₁₁₀, 5, 1, 0; 2000 DN₁₁₀, 8, 2, 6; 2000 DO₁₁₀, 5, 1, 0; 2000 DS₁₁₀, 8, 2, 1; 2000 DT₁₁₀ *, 25, 5, 108; 2000 DV<

4, 1, 0; 2000 EA₁₂, 6, 2, 5; 2000 EC₁₂, 8, 2, 8; 2000 EH₁₂, 13, 3, 581; 2000 EO₁₂, 10, 2, 59; 2000 EP₁₂, 9, 2, 59; 2000 EU₁₂, 6, 2, 59; 2000 EY₁₂, 6, 2, 5; 2000 EZ₁₂, 8, 2, 54; 2000 EC₁₃, 15, 4, 86; 2000 EE₁₃, 12, 3, 59; 2000 EJ₁₃, 10, 2, 30; 2000 EK₁₃, 19, 3, 30; 2000 EV₁₃, 3, 1, 0; 2000 EW₁₃, 5, 1, 0; 2000 EH₁₄, 10, 2, 1; 2000 EH₁₄, 12, 3, 5; 2000 EJ₁₄, 23, 5, 5; 2000 EK₁₄, 13, 3, 6; 2000 EN₁₄, 19, 5, 584; 2000 EO₁₄, 6, 2, 5; 2000 EP₁₄, 15, 4, 6; 2000 EQ₁₄, 8, 2, 1; 2000 ES₁₄, 4, 1, 0; 2000 EY₁₄, 10, 2, 26; 2000 EA₁₅, 14, 3, 10; 2000 EC₁₅, 14, 3, 24; 2000 ED₁₅, 20, 4, 11; 2000 EE₁₅, 15, 3, 2; 2000 EH₁₅, 9, 2, 1; 2000 EJ₁₅, 8, 2, 1; 2000 EM₁₅, 16, 4, 57; 2000 EO₁₅, 5, 1, 0; 2000 EP₁₅, 5, 1, 0; 2000 EQ₁₅, 5, 1, 0; 2000 EC₁₆, 4, 1, 0; 2000 EM₁₆, 5, 1, 0; 2000 EN₁₆, 17, 3, 66; 2000 EO₁₆, 4, 1, 0; 2000 EV₁₆, 9, 2, 1; 2000 EW₁₆, 27, 5, 4; 2000 EX₁₆, 16, 4, 4; 2000 EY₁₆, 26, 6, 62; 2000 EZ₁₆, 22, 4, 59; 2000 EA₁₇, 32, 6, 62; 2000 EB₁₇, 16, 3, 5; 2000 EC₁₇, 3, 1, 0; 2000 ED₁₇, 13, 3, 2; 2000 EE₁₇, 9, 2, 1; 2000 EF₁₇, 17, 3, 5; 2000 EH₁₇, 10, 2, 1; 2000 EJ₁₇, 4, 1, 0; 2000 EK₁₇, 10, 3, 94; 2000 EL₁₇, 9, 2, 1; 2000 EN₁₇, 4, 1, 0; 2000 EP₁₇, 4, 1, 0; 2000 ER₁₇, 10, 2, 59; 2000 EU₁₇, 3, 1, 0; 2000 EV₁₇, 3, 1, 0; 2000 EW₁₇, 10, 2, 61; 2000 EX₁₇, 17, 4, 61; 2000 EB₁₈, 3, 1, 0; 2000 EC₁₈, 6, 2, 54; 2000 ED₁₈, 17, 4, 65; 2000 EE₁₈, 14, 3, 11; 2000 EL₁₈, 3, 1, 0; 2000 ER₁₈, 5, 1, 0; 2000 ET₁₈, 8, 2, 7; 2000 EC₁₉, 20, 5, 120; 2000 EG₁₉, 5, 1, 0; 2000 EK₁₉, 8, 2, 7; 2000 EM₁₉, 13, 3, 53; 2000 EN₁₉, 4, 1, 0; 2000 EO₁₉, 20, 5, 5; 2000 EP₁₉, 20, 5, 91; 2000 ET₁₉, 13, 3, 11; 2000 EU₁₉, 14, 3, 11; 2000 EW₁₉, 18, 4, 59; 2000 EX₁₉, 20, 4, 15; 2000 EY₁₉, 19, 4, 15; 2000 EZ₁₉, 38, 8, 897; 2000 EB₂₀, 18, 4, 66; 2000 EC₂₀, 25, 5, 5; 2000 ED₂₀, 23, 5, 76; 2000 EE₂₀, 20, 4, 1, 0; 2000 EL₂₀, 4, 1, 0; 2000 EM₂₀, 5, 1, 0; 2000 EO₂₀, 5, 1, 0; 2000 EQ₂₀, 14, 3, 113; 2000 ET₂₀, 8, 2, 22; 2000 EV₂₀, 6, 2, 56; 2000 EX₂₀, 11, 3, 33; 2000 EY₂₀, 3, 1, 0; 2000 EB₂₁, 13, 3, 30; 2000 EC₂₁, 10, 2, 56; 2000 ED₂₁, 13, 3, 57; 2000 EE₂₁, 4, 1, 0; 2000 EF₂₁, 4, 1, 0; 2000 EM₂₁, 10, 2, 2; 2000 EP₂₁, 7, 2, 4; 2000 EQ₂₁, 5, 1, 0; 2000 ET₂₁, 10, 2, 60; 2000 EW₂₁, 5, 1, 0; 2000 EY₂₁, 4, 1, 0; 2000 EZ₂₁, 22, 5, 27; 2000 EA₂₂, 5, 1, 0; 2000 EB₂₂, 16, 4, 15; 2000 ES₂₂, 5, 1, 0; 2000 ER₂₂, 17, 4, 4; 2000 ET₂₂, 14, 3, 2; 2000 EV₂₂, 27, 6, 31; 2000 EX₂₂, 5, 1, 0; 2000 EY₂₂, 23, 5, 33; 2000 EA₂₄, 17, 4, 3; 2000 EB₂₄, 3, 1, 0; 2000 EC₂₄, 20, 5, 31; 2000 EF₂₄, 31, 7, 33; 2000 EM₂₄, 14, 3, 2; 2000 EN₂₄, 10, 3, 29; 2000 EO₂₄, 32, 7, 33; 2000 EQ₂₄, 4, 1, 0; 2000 ER₂₄, 9, 2, 1; 2000 ET₂₄, 9, 2, 1; 2000 EU₂₄, 14, 3, 29; 2000 EW₂₄, 5, 1, 0; 2000 EX₂₄, 23, 5, 33; 2000 EY₂₄, 20, 4, 3; 2000 EZ₂₄, 10, 2, 1; 2000 EC₂₅, 23, 5, 62; 2000 EJ₂₅, 14, 3, 5; 2000 EM₂₅, 5, 1, 0; 2000 EN₂₅, 8, 2, 1; 2000 EP₂₅, 8, 2, 1; 2000 ES₂₅, 29, 7, 62; 2000 EU₂₅, 35, 6, 33; 2000 EW₂₅, 13, 3, 29; 2000 EY₂₅, 13, 3, 26; 2000 EZ₂₅, 29, 6, 33; 2000 EB₂₆, 21, 4, 6; 2000 EC₂₆, 44, 7, 33; 2000 ED₂₆, 5, 1, 0; 2000 EN₂₆, 13, 3, 29; 2000 EP₂₆, 5, 1, 0; 2000 EQ₂₆, 10, 2, 1; 2000 ER₂₆, 4, 1, 0; 2000 ES₂₆, 9, 2, 10; 2000 EV₂₆, 23, 5, 76; 2000 EU₂₇, 9, 2, 27; 2000 EB₂₈, 24, 5, 61; 2000 EH₂₈, 8, 2, 54; 2000 EM₂₈, 9, 2, 59; 2000 EX₂₈, 8, 2, 54; 2000 EC₂₉, 9, 2, 4; 2000 ED₂₉, 19, 4, 65; 2000 EE₂₉, 15, 3, 24; 2000 EF₂₉, 17, 4, 65; 2000 EG₂₉, 10, 2, 8; 2000 EJ₂₉, 4, 1, 0; 2000 EO₂₉, 13, 3, 27; 2000 EP₂₉, 5, 1, 0; 2000 ER₂₉, 10, 2, 8; 2000 ES₂₉, 9, 2, 8; 2000 EA₃₀, 5, 1, 0; 2000 EC₃₀, 8, 2, 51; 2000 EE₃₀, 7, 2, 7; 2000 EF₃₀, 13, 3, 61; 2000 EG₃₀, 4, 1, 0; 2000 EK₃₀, 6, 2, 53; 2000 EM₃₀, 3, 1, 0; 2000 ER₃₀, 7, 2, 7; 2000 EV₃₀, 12, 3, 61; 2000 EC₃₁, 3, 1, 0; 2000 EK₃₁, 5, 1, 0; 2000 ET₃₁, 9, 2, 826; 2000 EV₃₁, 4, 1, 0; 2000 EA₃₂, 3, 1, 0; 2000 ED₃₂, 5, 1, 0; 2000 EG₃₂, 3, 1, 0; 2000 EQ₃₂, 9, 2, 52; 2000 EP₃₂, 5, 1, 0; 2000 EQ₃₂, 17, 4, 52; 2000 ET₃₂, 11, 3, 26; 2000 EU₃₂, 4, 1, 0; 2000 EX₃₂, 16, 4, 60; 2000 EE₃₃, 14, 4, 59; 2000 ET₃₃, 7, 2, 11; 2000 EV₃₃, 17, 4, 27; 2000 EW₃₃, 19, 3, 2; 2000 EA₃₄, 17, 3, 5; 2000 EB₃₄, 13, 3, 11; 2000 EC₃₄, 20, 5, 64; 2000 ED₃₄, 15, 4, 29; 2000 EF₃₄, 5, 1, 0; 2000 EH₃₄, 23, 5, 98; 2000 EM₃₄, 10, 3, 11; 2000 EN₃₄, 11, 3, 29; 2000 EO₃₄, 8, 2, 25; 2000 EP₃₄, 19, 4, 29; 2000 ER₃₄, 15, 3, 10; 2000 EL₃₅, 4, 1, 0; 2000 EN₃₅, 8, 2, 24; 2000 EP₃₅, 11, 3, 11; 2000 ER₃₅, 14, 3, 15; 2000 EU₃₅, 19, 4, 12; 2000 EV₃₅, 13, 3, 9; 2000 ED₃₆, 18, 4, 92; 2000 EE₃₆, 19, 4, 65; 2000 EF₃₆, 10, 2, 60; 2000 EG₃₆, 13, 3, 23; 2000 EL₃₆, 13, 3, 11; 2000 EM₃₆, 11, 3, 11; 2000 EO₃₆, 25, 4, 93; 2000 EP₃₆, 27, 6, 93; 2000 EQ₃₆, 10, 2, 5; 2000 ER₃₆, 12, 3, 11; 2000 ES₃₆, 19, 4, 6; 2000 ET₃₆, 15, 3, 5; 2000 EV₃₆, 16, 4, 59; 2000 EW₃₆, 14, 3, 12; 2000 EX₃₆, 14, 3, 12; 2000 EY₃₆, 20, 4, 6; 2000 EZ₃₆, 14, 3, 2; 2000 EB₃₇, 20, 4, 6; 2000 EC₃₇, 20, 4, 4; 2000 ED₃₇, 16, 4, 3; 2000 EE₃₇, 33, 7, 478; 2000 EF₃₇, 17, 4, 6; 2000 EG₃₇, 37, 6, 60; 2000 EH₃₇, 7, 2, 4; 2000 EL₃₇, 18, 3, 9; 2000 EM₃₇, 33, 5, 4; 2000 EN₃₇, 19, 4, 6; 2000 EQ₃₇, 14, 3, 2; 2000 ER₃₇, 10, 2, 6; 2000 ES₃₇, 18, 4, 889; 2000 ET₃₇, 25, 5, 62; 2000 EU₃₇, 19, 4, 475; 2000 EV₃₇, 13, 3, 444; 2000 EW₃₇, 28, 5, 4; 2000 EX₃₇, 14, 3, 2; 2000 EY₃₇, 20, 5, 59; 2000 EA₃₈, 18, 4, 6; 2000 EB₃₈, 18, 4, 12; 2000 ED₃₈, 29, 6, 6; 2000 EF₃₈, 9, 2, 1; 2000 EF₃₈, 12, 3, 3; 2000 EG₃₈, 20, 4, 4; 2000 EH₃₈, 13, 3, 6; 2000 EL₃₈, 33, 6, 6; 2000 EN₃₈, 24, 4, 4; 2000 EO₃₈, 22, 4, 3; 2000 EP₃₈, 9, 2, 1; 2000 EQ₃₈, 19, 4, 6; 2000 ER₃₈, 24, 5, 477; 2000 ES₃₈, 19, 4, 4; 2000 ET₃₈, 16, 4, 4; 2000 EU₃₈, 9, 2, 1; 2000 EW₃₈, 32, 6, 91; 2000 EX₃₈, 18, 4, 62; 2000 EY₃₈, 22, 5, 895; 2000 EZ₃₈, 13, 2, 1; 2000 EA₃₉, 16, 4, 6; 2000 EB₃₉, 14, 3, 2; 2000 EC₃₉, 13, 3, 2; 2000 ED₃₉, 9, 2, 1; 2000 EE₃₉, 17, 4, 4; 2000 EF₃₉, 22, 4, 6; 2000 EG₃₉, 34, 7, 444; 2000 EH₃₉, 12, 3, 2; 2000 EJ₃₉, 5, 1, 0; 2000 EK₃₉, 20, 4, 3; 2000 EL₃₉, 37, 7, 93; 2000 EM₃₉, 20, 4, 6; 2000 EN₃₉, 12, 3, 2; 2000 EO₃₉, 17, 4, 6; 2000 EP₃₉, 18, 4, 6; 2000 EQ₃₉, 17, 4, 6; 2000 ER₃₉, 17, 4, 6; 2000 ES₃₉, 12, 3, 8; 2000 ET₃₉, 12, 3, 2; 2000 EU₃₉, 12, 3, 8; 2000 EV₃₉, 29, 5, 93; 2000 EY₃₉, 8, 2, 1; 2000 EZ₃₉, 19, 4, 6; 2000 EA₄₀, 15, 3, 6; 2000 EB₄₀, 16, 4, 6; 2000 EC₄₀, 10, 2, 2; 2000 ED₄₀, 19, 4, 3; 2000 EE₄₀, 15, 3, 2; 2000 EF₄₀, 8, 2, 1; 2000 EH₄₀, 22, 5, 30; 2000 EJ₄₀, 20, 4, 6; 2000 EK₄₀, 17, 4, 6; 2000 EL₄₀, 19, 4, 4; 2000 EM₄₀, 24, 5, 6; 2000 EN₄₀, 20, 4, 6; 2000 EO₄₀, 34, 5, 30; 2000 EP₄₀, 41, 7, 30; 2000 EQ₄₀, 22, 5, 59; 2000 ER₄₀, 17, 4, 12; 2000 ES₄₀, 20, 5, 6; 2000 ET₄₀, 25, 5, 12; 2000 EU₄₀, 13, 3, 2; 2000 EV₄₀, 17, 3, 6; 2000 EW₄₀, 19, 4, 12; 2000 EX₄₀, 26, 5, 893; 2000 EY₄₀, 24, 4, 6; 2000 EZ₄₀, 27, 5, 9; 2000 EA₄₁, 24, 5, 5; 2000 EB₄₁, 25, 5, 893;

2000 EC₄₁, 18, 4, 6; 2000 ED₄₁, 14, 3, 8; 2000 EF₄₁, 20, 4, 6; 2000 EH₄₁, 20, 4, 6; 2000 EJ₄₁, 24, 5, 5; 2000 EL₄₁, 33, 6, 12; 2000 EM₄₁, 39, 7, 516; 2000 EN₄₁, 8, 2, 6; 2000 EO₄₁, 20, 4, 6; 2000 EP₄₁, 14, 3, 6; 2000 EQ₄₁, 18, 4, 7; 2000 ER₄₁, 19, 4, 6; 2000 ES₄₁, 4, 1, 0; 2000 ET₄₁, 28, 6, 62; 2000 EV₄₁, 18, 4, 6; 2000 EW₄₁, 9, 2, 1; 2000 EX₄₁, 10, 3, 2; 2000 EY₄₁, 10, 3, 2; 2000 EZ₄₁, 12, 3, 889; 2000 EA₄₂, 9, 2, 1; 2000 EB₄₂, 8, 2, 1; 2000 EC₄₂, 7, 2, 1; 2000 ED₄₂, 19, 3, 4; 2000 EE₄₂, 13, 3, 2; 2000 EF₄₂, 8, 2, 1; 2000 EG₄₂, 9, 2, 5; 2000 EH₄₂, 9, 2, 1; 2000 EJ₄₂, 9, 2, 1; 2000 EK₄₂, 14, 3, 2; 2000 EM₄₂, 17, 4, 6; 2000 EN₄₂, 22, 5, 12; 2000 EO₄₂, 4, 1, 0; 2000 EP₄₂, 8, 2, 12; 2000 ER₄₂, 12, 3, 5; 2000 ET₄₂, 14, 3, 12; 2000 EU₄₂, 9, 2, 1; 2000 EW₄₂, 8, 2, 1; 2000 EX₄₂, 8, 2, 1; 2000 EY₄₂, 22, 5, 4; 2000 EZ₄₂, 12, 3, 2; 2000 EA₄₃, 17, 4, 6; 2000 EB₄₃, 13, 3, 2; 2000 ED₄₃, 12, 3, 2; 2000 EE₄₃, 20, 3, 6; 2000 EF₄₃, 8, 2, 1; 2000 EH₄₃, 15, 3, 5; 2000 EJ₄₃, 39, 7, 30; 2000 EK₄₃, 19, 4, 6; 2000 EM₄₃, 17, 4, 6; 2000 EN₄₃, 19, 4, 12; 2000 EO₄₃, 23, 4, 6; 2000 EP₄₃, 20, 4, 6; 2000 ER₄₃, 14, 3, 2; 2000 ES₄₃, 18, 4, 12; 2000 EU₄₃, 18, 3, 3; 2000 EV₄₃, 18, 4, 6; 2000 EW₄₃, 5, 1, 0; 2000 EX₄₃, 15, 3, 3; 2000 EY₄₃, 24, 5, 517; 2000 EZ₄₃, 5, 1, 0; 2000 EA₄₄, 13, 3, 478; 2000 EC₄₄, 24, 4, 6; 2000 EG₄₄, 15, 4, 4; 2000 EJ₄₄, 15, 3, 2; 2000 EK₄₄, 15, 3, 60; 2000 EO₄₄, 14, 3, 60; 2000 EP₄₄, 9, 2, 1; 2000 ER₄₄, 10, 2, 1; 2000 ES₄₄, 9, 2, 1; 2000 EV₄₄, 18, 4, 4; 2000 EW₄₄, 8, 2, 1; 2000 EA₄₅, 9, 2, 1; 2000 EC₄₅, 5, 1, 0; 2000 EE₄₅, 14, 3, 897; 2000 EF₄₅, 10, 2, 1; 2000 EG₄₅, 23, 5, 5; 2000 EH₄₅, 9, 2, 1; 2000 EK₄₅, 20, 4, 6; 2000 EL₄₅, 20, 4, 4; 2000 EM₄₅, 23, 5, 6; 2000 EN₄₅, 23, 5, 62; 2000 EP₄₅, 20, 4, 6; 2000 EQ₄₅, 16, 4, 5; 2000 ER₄₅, 8, 2, 1; 2000 ES₄₅, 24, 4, 6; 2000 ET₄₅, 35, 7, 895; 2000 EU₄₅, 39, 6, 6; 2000 EV₄₅, 13, 3, 5; 2000 EX₄₅, 9, 2, 1; 2000 EY₄₅, 9, 2, 1; 2000 EZ₄₅, 15, 3, 2; 2000 EB₄₆, 8, 2, 1; 2000 EC₄₆, 25, 5, 6; 2000 ED₄₆, 12, 3, 474; 2000 EE₄₆, 15, 3, 2; 2000 EF₄₆, 17, 4, 3; 2000 EG₄₆, 17, 4, 3; 2000 EJ₄₆, 23, 4, 6; 2000 EK₄₆, 42, 9, 894; 2000 EN₄₆, 14, 3, 2; 2000 EO₄₆, 22, 5, 516; 2000 EP₄₆, 14, 3, 3; 2000 EQ₄₆, 28, 5, 62; 2000 ER₄₆, 14, 3, 2; 2000 ES₄₆, 19, 4, 6; 2000 ET₄₆, 25, 5, 5; 2000 EU₄₆, 24, 5, 5; 2000 EV₄₆, 18, 4, 890; 2000 EW₄₆, 13, 3, 2; 2000 EY₄₆, 13, 3, 3; 2000 EZ₄₆, 10, 2, 1; 2000 EA₄₇, 10, 2, 2; 2000 EB₄₇, 10, 2, 1; 2000 EC₄₇, 14, 3, 3; 2000 ED₄₇, 23, 4, 6; 2000 EE₄₇, 23, 3, 3; 2000 EF₄₇, 19, 4, 6; 2000 EG₄₇, 20, 4, 6; 2000 EH₄₇, 29, 5, 47; 2000 EJ₄₇, 25, 5, 5; 2000 EK₄₇, 19, 4, 6; 2000 EL₄₇, 19, 4, 6; 2000 EM₄₇, 29, 5, 6; 2000 EN₄₇, 13, 3, 3; 2000 EO₄₇, 19, 4, 6; 2000 EP₄₇, 35, 6, 6; 2000 EQ₄₇, 22, 5, 5; 2000 ER₄₇, 21, 4, 3; 2000 ET₄₇, 8, 2, 1; 2000 EU₄₇, 18, 4, 3; 2000 EV₄₇, 32, 7, 895; 2000 EW₄₇, 13, 3, 3; 2000 EX₄₇, 20, 3, 3; 2000 EY₄₇, 37, 6, 68; 2000 EZ₄₇, 25, 5, 5; 2000 EB₄₈, 13, 3, 5; 2000 EC₄₈, 29, 5, 5; 2000 ED₄₈, 19, 4, 6; 2000 EE₄₈, 25, 5, 5; 2000 EF₄₈, 14, 3, 12; 2000 EG₄₈, 21, 4, 5; 2000 EH₄₈, 25, 4, 6; 2000 EJ₄₈, 25, 5, 5; 2000 EK₄₈, 15, 3, 12; 2000 EL₄₈, 13, 3, 12; 2000 EM₄₈, 19, 4, 5; 2000 EN₄₈, 29, 4, 5; 2000 EO₄₈, 25, 5, 5; 2000 EP₄₈, 19, 4, 5; 2000 EQ₄₈, 25, 5, 5; 2000 ER₄₈, 24, 5, 5; 2000 ET₄₈, 15, 3, 5; 2000 EV₄₈, 25, 5, 5; 2000 EX₄₈, 13, 3, 2; 2000 EY₄₈, 19, 4, 5; 2000 EZ₄₈, 12, 3, 3; 2000 EB₄₉, 18, 2, 1; 2000 ED₄₉, 16, 4, 6; 2000 EE₄₉, 18, 4, 3; 2000 EG₄₉, 19, 3, 5; 2000 EH₄₉, 14, 3, 2; 2000 EJ₄₉, 8, 2, 1; 2000 EL₄₉, 4, 1, 0; 2000 EN₄₉, 9, 2, 5; 2000 EO₄₉, 5, 1, 0; 2000 EQ₄₉, 8, 2, 7; 2000 ER₄₉, 13, 3, 1067; 2000 ES₄₉, 33, 7, 513; 2000 ET₄₉, 25, 5, 5; 2000 EU₄₉, 27, 6, 480; 2000 EV₄₉, 8, 2, 30; 2000 EW₄₉, 20, 4, 59; 2000 EY₄₉, 17, 3, 5; 2000 EA₅₀, 22, 5, 31; 2000 EB₅₀, 19, 4, 12; 2000 EC₅₀, 28, 6, 9; 2000 ED₅₀, 25, 5, 5; 2000 EH₅₀, 18, 4, 96; 2000 EK₅₀, 5, 1, 0; 2000 EM₅₀, 8, 2, 4; 2000 EN₅₀, 17, 4, 424; 2000 EO₅₀, 14, 3, 27; 2000 ER₅₀, 4, 1, 0; 2000 ES₅₀, 22, 5, 64; 2000 EV₅₀, 5, 1, 0; 2000 EW₅₀, 17, 4, 13; 2000 EY₅₀, 14, 3, 11; 2000 EA₅₃, 9, 2, 8; 2000 ER₅₃, 23, 3, 30; 2000 EE₅₄, 12, 3, 26; 2000 EG₅₄, 10, 2, 4; 2000 EJ₅₄, 9, 2, 4; 2000 EK₅₄, 15, 3, 9; 2000 EP₅₄, 12, 3, 15; 2000 EQ₅₄, 9, 2, 4; 2000 ES₅₄, 11, 3, 10; 2000 ET₅₄, 29, 6,

2000 APR. 18

M.P.C. 39771

2000 EL₆₂, 19, 4, 62; 2000 EM₆₂, 17, 4, 6; 2000 EO₆₂, 8, 2, 1; 2000 ER₆₂, 9, 2, 1; 2000 ES₆₂, 17, 4, 6; 2000 ET₆₂, 3, 1, 0; 2000 EU₆₂, 8, 2, 1; 2000 EY₆₂, 9, 2, 1; 2000 EZ₆₂, 8, 2, 1; 2000 EB₆₃, 9, 2, 1; 2000 ED₆₃, 10, 2, 1; 2000 EG₆₃, 9, 2, 1; 2000 EJ₆₃, 15, 3, 5; 2000 EL₆₃, 14, 3, 5; 2000 EM₆₃, 7, 2, 1; 2000 EN₆₃, 10, 2, 1; 2000 EO₆₃, 21, 5, 13; 2000 EP₆₃, 15, 4, 13; 2000 ER₆₃, 13, 3, 55; 2000 EV₆₃, 11, 3, 12; 2000 EB₆₄, 8, 2, 1; 2000 EC₆₄, 10, 2, 1; 2000 EE₆₄, 7, 2, 2; 2000 EJ₆₄, 9, 2, 1; 2000 EQ₆₄, 10, 2, 2; 2000 ER₆₄, 14, 3, 3; 2000 ES₆₄, 23, 5, 31; 2000 ET₆₄, 9, 2, 1; 2000 EU₆₄, 15, 3, 29; 2000 EV₆₄, 8, 2, 1; 2000 EX₆₄, 15, 3, 2; 2000 EG₆₅, 17, 4, 3; 2000 EC₆₅, 9, 2, 1; 2000 ED₆₅, 8, 2, 1; 2000 EF₆₅, 15, 3, 2; 2000 EH₆₅, 19, 4, 6; 2000 EI₆₅, 13, 3, 2; 2000 EK₆₅, 13, 3, 2; 2000 EM₆₅, 7, 2, 1; 2000 EP₆₅, 5, 1, 0; 2000 EQ₆₅, 8, 2, 2; 2000 ET₆₅, 12, 3, 2; 2000 EU₆₅, 11, 3, 2; 2000 EW₆₅, 12, 3, 2; 2000 EY₆₅, 11, 3, 2; 2000 EB₆₆, 4, 1, 0; 2000 EC₆₆, 10, 2, 1; 2000 EE₆₆, 30, 6, 6; 2000 EJ₆₆, 11, 3, 2; 2000 EK₆₆, 9, 2, 1; 2000 EL₆₆, 4, 1, 0; 2000 EM₆₆, 18, 4, 12; 2000 EN₆₆, 18, 4, 6; 2000 EO₆₆, 17, 4, 12; 2000 EP₆₆, 8, 2, 10; 2000 EQ₆₆, 18, 4, 12; 2000 ER₆₆, 17, 4, 12; 2000 ES₆₆, 15, 3, 3; 2000 EV₆₆, 11, 2, 1; 2000 EW₆₆, 13, 3, 3; 2000 EX₆₆, 13, 3, 2; 2000 EY₆₆, 9, 2, 1; 2000 EZ₆₆, 8, 2, 1; 2000 EB₆₇, 8, 2, 1; 2000 EC₆₇, 11, 3, 2; 2000 ED₆₇, 16, 4, 29; 2000 EG₆₇, 18, 4, 28; 2000 EH₆₇, 5, 1, 0; 2000 EI₆₇, 8, 2, 1; 2000 EK₆₇, 16, 3, 5; 2000 ES₆₇, 12, 3, 2; 2000 ET₆₇, 13, 3, 5; 2000 EU₆₇, 13, 3, 2; 2000 EV₆₇, 13, 3, 5; 2000 EA₆₈, 10, 2, 1; 2000 EB₆₈, 9, 2, 1; 2000 EG₆₈, 13, 3, 2; 2000 EK₆₈, 11, 3, 5; 2000 EP₆₈, 7, 2, 1; 2000 EQ₆₈, 12, 3, 5; 2000 ER₆₈, 3, 1, 0; 2000 ES₆₈, 9, 2, 1; 2000 ET₆₈, 9, 2, 1; 2000 EU₆₈, 10, 2, 1; 2000 EV₆₈, 14, 3, 3; 2000 EW₆₈, 8, 2, 1; 2000 EX₆₈, 25, 5, 5; 2000 EY₆₈, 13, 3, 12; 2000 EZ₆₈, 14, 4, 6; 2000 EA₆₉, 9, 2, 1; 2000 EB₆₉, 10, 2, 1; 2000 EC₆₉, 5, 1, 0; 2000 ED₆₉, 13, 3, 2; 2000 EG₆₉, 18, 4, 6; 2000 EH₆₉, 14, 3, 28; 2000 EJ₆₉, 21, 5, 5; 2000 EL₆₉, 21, 5, 5; 2000 EM₆₉, 29, 6, 62; 2000 EN₆₉, 25, 5, 6; 2000 EO₆₉, 13, 3, 2; 2000 EP₆₉, 14, 3, 2; 2000 EQ₆₉, 32, 7, 62; 2000 ER₆₉, 17, 4, 8; 2000 ES₆₉, 29, 7, 62; 2000 ET₆₉, 26, 6, 30; 2000 EU₆₉, 19, 4, 6; 2000 EV₆₉, 10, 2, 1; 2000 EW₆₉, 15, 4, 32; 2000 EX₆₉, 10, 2, 1; 2000 EY₆₉, 15, 3, 5; 2000 EZ₆₉, 10, 2, 2; 2000 EA₇₀, 18, 4, 5; 2000 ED₇₀, 18, 4, 33; 2000 EE₇₀, 15, 3, 5; 2000 EF₇₀, 20, 4, 6; 2000 EH₇₀, 19, 4, 9; 2000 EJ₇₀, 9, 2, 1; 2000 EK₇₀, 20, 4, 6; 2000 EL₇₀, 7, 2, 1; 2000 EM₇₀, 15, 4, 3; 2000 EN₇₀, 9, 2, 6; 2000 EO₇₀, 9, 2, 1; 2000 EQ₇₀, 10, 2, 1; 2000 ES₇₀, 7, 2, 11; 2000 ET₇₀, 14, 3, 10; 2000 EZ₇₀, 14, 3, 10; 2000 ES₇₁, 9, 2, 25; 2000 EZ₇₃, 5, 1, 0; 2000 EF₇₄, 20, 4, 36; 2000 EN₇₄, 22, 5, 36; 2000 EO₇₄, 15, 3, 31; 2000 ET₇₄, 6, 2, 8; 2000 EV₇₄, 12, 3, 26; 2000 EW₇₄, 12, 3, 26; 2000 EZ₇₄, 7, 2, 1; 2000 EA₇₅, 17, 4, 30; 2000 ED₇₅, 12, 3, 95; 2000 EJ₇₅, 28, 6, 76; 2000 EK₇₅, 10, 2, 29; 2000 EM₇₅, 10, 2, 3; 2000 EN₇₅, 38, 6, 68; 2000 EO₇₅, 4, 1, 0; 2000 EF₇₅, 5, 1, 0; 2000 EH₇₅, 10, 2, 8; 2000 EZ₇₅, 13, 2, 8; 2000 EA₇₆, 20, 4, 454; 2000 EB₇₆, 8, 2, 8; 2000 EC₇₆, 12, 3, 45; 2000 EE₇₆, 4, 1, 0; 2000 EJ₇₆, 4, 1, 0; 2000 ER₇₆, 13, 3, 61; 2000 EO₇₇, 5, 1, 0; 2000 EZ₇₇, 8, 1, 0; 2000 EH₇₈, 4, 1, 0; 2000 EM₇₈, 4, 1, 0; 2000 EP₇₈, 32, 7, 53; 2000 EQ₇₈, 45, 10, 140; 2000 ET₇₈, 14, 4, 52; 2000 EU₇₈, 8, 2, 22; 2000 EJ₇₉, 9, 2, 52; 2000 EM₇₉, 13, 3, 59; 2000 EW₇₉, 13, 3, 59; 2000 EX₇₉, 13, 3, 543; 2000 EA₈₀, 12, 3, 59; 2000 EB₈₀, 8, 2, 46; 2000 EK₈₀, 12, 3, 59; 2000 EQ₈₀, 7, 2, 6; 2000 ET₈₁, 9, 2, 52; 2000 EV₈₁, 5, 1, 0; 2000 EA₈₂, 13, 3, 59; 2000 EP₈₂, 9, 2, 59; 2000 EU₈₂, 15, 3, 64; 2000 EW₈₂, 9, 2, 60; 2000 EY₈₂, 4, 1, 0; 2000 EZ₈₂, 5, 1, 0; 2000 EA₈₃, 3, 1, 0; 2000 EC₈₃, 16, 4, 88; 2000 EE₈₃, 13, 3, 64; 2000 EG₈₃, 11, 3, 11; 2000 EQ₈₃, 9, 2, 60; 2000 ER₈₃, 25, 5, 92; 2000 ET₈₃, 12, 3, 22; 2000 EV₈₃, 5, 1, 0; 2000 EX₈₃, 21, 5, 80; 2000 EB₈₄, 8, 2, 6; 2000 EK₈₄, 12, 3, 90; 2000 EL₈₄, 17, 4, 91; 2000 EM₈₄, 17, 4, 59; 2000 EQ₈₄, 23, 6, 512; 2000 ER₈₄, 5, 1, 0; 2000 ES₈₄, 8, 2, 34; 2000 EV₈₄, 3, 1, 0; 2000 EX₈₄, 4, 1, 0; 2000 EB₈₅, 4, 1, 0; 2000 ED₈₅, 5, 1, 0; 2000 EE₈₅, 4, 1, 0; 2000 EF₈₅, 23, 5, 112; 2000 EH₈₅, 21, 5, 112; 2000 EK₈₅, 23, 5, 57; 2000 EN₈₅, 13, 3, 887; 2000 EO₈₅, 18, 4, 514; 2000 EP₈₅, 4, 1, 0; 2000 ES₈₅, 23, 4, 13; 2000 EW₈₅, 18, 4, 12; 2000 EX₈₅, 17, 4, 12; 2000 EY₈₅, 9, 2, 10; 2000 EZ₈₅, 17, 4, 12; 2000 EA₈₆, 20, 4, 15; 2000 EC₈₆, 10, 2, 7; 2000 ED₈₆, 20, 4, 15; 2000 EE₈₆, 13, 3, 10; 2000 EF₈₆, 37, 7, 65; 2000 EG₈₆, 16, 4, 66; 2000 EL₈₆, 12, 3, 60; 2000 EM₈₆, 8, 2, 56; 2000 EN₈₆, 24, 5, 60; 2000 EO₈₆, 8, 2, 4; 2000 EP₈₆, 13, 3, 2; 2000 EQ₈₆, 10, 2, 4; 2000 EW₈₆, 9, 2, 59; 2000 EX₈₆, 17, 4, 113; 2000 EC₈₇, 17, 4, 586; 2000 ED₈₇, 15, 2, 4; 2000 EF₈₇, 10, 2, 3; 2000 EG₈₇, 30, 6, 94; 2000 EJ₈₇, 9, 2, 4; 2000 EK₈₇, 9, 2, 4; 2000 EL₈₇, 33, 6, 62; 2000 EM₈₇, 19, 5, 13; 2000 EO₈₇, 18, 4, 12; 2000 EP₈₇, 19, 4, 12; 2000 EQ₈₇, 24, 5, 480; 2000 ER₈₇, 17, 4, 55; 2000 ES₈₇, 9, 2, 1; 2000 ET₈₇, 18, 4, 6; 2000 EU₈₇, 15, 3, 6; 2000 EV₈₇, 10, 2, 10; 2000 EX₈₇, 42, 6, 15; 2000 EZ₈₇, 13, 3, 85; 2000 EJ₈₈, 13, 3, 88; 2000 EK₈₈, 6, 2, 58; 2000 EL₈₈, 4, 1, 0; 2000 EM₈₈, 12, 3, 57; 2000 EN₈₈, 3, 1, 0; 2000 EO₈₈, 6, 2, 4; 2000 EP₈₈, 4, 1, 0; 2000 ER₈₈, 20, 5, 90; 2000 ES₈₈, 10, 2, 4; 2000 EU₈₈, 22, 5, 114; 2000 EV₈₈, 4, 1, 0; 2000 EW₈₈, 13, 3, 94; 2000 EX₈₈, 10, 2, 4; 2000 EA₈₉, 9, 2, 1; 2000 EB₈₉, 28, 6, 119; 2000 ED₈₉, 10, 2, 3; 2000 EG₈₉, 7, 2, 3; 2000 EH₈₉, 13, 2, 1; 2000 EJ₈₉, 18, 4, 477; 2000 EL₈₉, 14, 3, 479; 2000 EO₈₉, 8, 2, 1; 2000 ET₈₉, 22, 4, 4; 2000 EU₈₉, 8, 2, 3; 2000 EW₈₉, 10, 2, 1; 2000 EX₈₉, 4, 1, 0; 2000 EY₈₉, 12, 3, 3; 2000 EZ₈₉, 5, 1, 0; 2000 EA₉₀, 24, 4, 6; 2000 ED₉₀, 16, 4, 62; 2000 EE₉₀, 10, 2, 1; 2000 EF₉₀, 12, 3, 3; 2000 EG₉₀, 42, 8, 895; 2000 EH₉₀, 30, 6, 479; 2000 EJ₉₀, 3, 1, 0; 2000 EK₉₀, 8, 2, 1; 2000 EL₉₀, 7, 2, 4; 2000 EN₉₀, 2, 3, 1, 0; 2000 EO₉₀, 10, 2, 1; 2000 EP₉₀, 5, 1, 0; 2000 ER₉₀, 21, 4, 60; 2000 EW₉₀, 8, 2, 4; 2000 EZ₉₀, 6, 2, 1; 2000 EB₉₃, 16, 4, 3; 2000 EC₉₃, 26, 6, 66; 2000 EE₉₃, 35, 7, 97; 2000 EK₉₃, 7, 2, 1; 2000 EL₉₃, 34, 8, 510; 2000 EM₉₃, 10, 2, 87; 2000 EQ₉₃, 23, 5, 477; 2000 ER₉₃, 12, 3, 31; 2000 ET₉₃, 18, 3, 88; 2000 EX₉₃, 29, 7, 91; 2000 EY₉₃, 20, 4, 514; 2000 EZ₉₃, 7, 2, 87; 2000 EJ₉₄, 5, 1, 0; 2000 EL₉₄, 8, 2, 93; 2000 EN₉₄, 5, 1, 0; 2000 EP₉₄, 10, 2, 1; 2000 EQ₉₄, 5, 1, 0; 2000 ES₉₄, 9, 2, 1; 2000 EX₉₄, 12, 3, 65; 2000 EY₉₄, 5, 1, 0; 2000 EZ₉₄, 8, 2, 65; 2000 EC₉₅,

5, 1, 0; 2000 ED₉₅, 5, 1, 0; 2000 EF₉₅, 10, 2, 1; 2000 EG₉₅, 8, 2, 65; 2000 EK₉₅, 17, 4, 68; 2000 EN₉₅, 14, 3, 3; 2000 EO₉₅, 6, 2, 1; 2000 ER₉₅, 3, 1, 0; 2000 ES₉₅, 3, 1, 0; 2000 EW₉₅, 12, 3, 5; 2000 EE₉₆, 8, 2, 6; 2000 EG₉₆, 9, 2, 1; 2000 EJ₉₆, 14, 3, 12; 2000 EK₉₆, 8, 2, 1; 2000 EN₉₆, 9, 2, 10; 2000 EP₉₆, 12, 3, 88; 2000 ES₉₆, 4, 1, 0; 2000 ET₉₆, 29, 4, 11; 2000 EU₉₆, 10, 3, 64; 2000 EW₉₆, 17, 4, 68; 2000 EY₉₆, 22, 5, 479; 2000 EZ₉₆, 19, 4, 11; 2000 EA₉₇, 12, 3, 56; 2000 EB₉₇, 14, 4, 60; 2000 EC₉₇, 10, 2, 2; 2000 ED₉₇, 15, 3, 2; 2000 EE₉₇, 10, 2, 8; 2000 EF₉₇, 10, 2, 1; 2000 EG₉₇, 15, 3, 3; 2000 EJ₉₇, 23, 3, 3; 2000 EL₉₇, 17, 4, 68; 2000 EM₉₇, 20, 4, 11; 2000 EO₉₇, 13, 2, 2; 2000 ER₉₇, 8, 2, 2; 2000 ES₉₇, 8, 2, 3; 2000 ET₉₇, 15, 4, 11; 2000 EV₉₇, 9, 2, 30; 2000 EW₉₇, 29, 6, 509; 2000 EX₉₇, 4, 1, 0; 2000 EY₉₇, 12, 3, 64; 2000 EZ₉₈, 10, 2, 8; 2000 EA₉₉, 9, 2, 8; 2000 EW₉₉, 12, 3, 33; 2000 EZ₉₉, 10, 2, 8; 2000 EF₁₀₀, 15, 4, 34; 2000 EJ₁₀₀, 4, 1, 0; 2000 EM₁₀₀, 5, 1, 0; 2000 EP₁₀₀, 4, 1, 0; 2000 EW₁₀₀, 5, 1, 0; 2000 EA₁₀₁, 5, 1, 0; 2000 EF₁₀₁, 24, 6, 67; 2000 EN₁₀₁, 9, 2, 8; 2000 ES₁₀₁, 3, 1, 0; 2000 EU₁₀₁, 4, 1, 0; 2000 EX₁₀₁, 16, 4, 34; 2000 EY₁₀₁, 4, 1, 0; 2000 EH₁₀₂, 5, 1, 0; 2000 EI₁₀₂, 17, 4, 33; 2000 EJ₁₀₂, 15, 4, 34; 2000 EA₁₀₃, 5, 1, 0; 2000 EC₁₀₃, 7, 2, 21; 2000 ED₁₀₃, 15, 3, 34; 2000 EG₁₀₃, 4, 1, 0; 2000 EK₁₀₃, 9, 2, 29; 2000 EP₁₀₃, 8, 2, 29; 2000 EQ₁₀₃, 27, 5, 59; 2000 ES₁₀₃, 33, 7, 478; 2000 ET₁₀₃, 16, 4, 34; 2000 EU₁₀₃, 22, 5, 64; 2000 EV₁₀₃, 7, 2, 1; 2000 EW₁₀₃, 15, 3, 2; 2000 EY₁₀₃, 8, 2, 7; 2000 EA₁₀₄, 9, 2, 7; 2000 EJ₁₀₄, 13, 3, 69; 2000 ED₁₀₄, 13, 3, 10; 2000 EI₁₀₄, 9, 2, 4; 2000 EH₁₀₄, 16, 4, 65; 2000 EJ₁₀₄, 28, 6, 68; 2000 EK₁₀₄, 25, 4, 889; 2000 EL₁₀₄, 17, 4, 893; 2000 EM₁₀₄, 24, 5, 64; 2000 EN₁₀₄, 19, 4, 57; 2000 EF₁₀₄, 18, 4, 58; 2000 EQ₁₀₄, 29, 6, 96; 2000 ES₁₀₄, 19, 5, 94; 2000 EW₁₀₄, 18, 4, 15; 2000 EX₁₀₄, 19, 4, 27; 2000 EZ₁₀₄, 19, 3, 10; 2000 EA₁₀₅, 37, 8, 483; 2000 EC₁₀₅, 39, 8, 892; 2000 EE₁₀₅, 19, 4, 15; 2000 EF₁₀₅, 23, 5, 94; 2000 EG₁₀₅, 30, 6, 95; 2000 EH₁₀₅, 20, 4, 15; 2000 EJ₁₀₅, 14, 3, 10; 2000 EK₁₀₅, 14, 3, 10; 2000 EL₁₀₅, 7, 2, 5; 2000 EM₁₀₅, 15, 3, 10; 2000 EN₁₀₅, 15, 3, 10; 2000 EO₁₀₅, 15, 3, 88; 2000 EP₁₀₅, 8, 2, 7; 2000 EQ₁₀₅, 14, 3, 10; 2000 ER₁₀₅, 10, 2, 7; 2000 ES₁₀₅, 10, 2, 7; 2000 ET₁₀₅, 10, 2, 7; 2000 EU₁₀₅, 15, 3, 10; 2000 EV₁₀₅, 25, 6, 68; 2000 EW₁₀₅, 18, 4, 32; 2000 EX₁₀₅, 19, 4, 15; 2000 EY₁₀₅, 13, 3, 15; 2000 EA₁₀₆, 8, 2, 5; 2000 EB₁₀₆, 23, 5, 39; 2000 EC₁₀₆, 17, 4, 480; 2000 ED₁₀₆, 15, 3, 10; 2000 EE₁₀₆, 26, 6, 67; 2000 EJ₁₀₆, 19, 4, 26; 2000 EK₁₀₆, 13, 3, 10; 2000 EL₁₀₆, 14, 3, 33; 2000 EN₁₀₆, 17, 4, 59; 2000 EP₁₀₆, 36, 8, 511; 2000 ER₁₀₆, 5, 1, 0; 2000 ES₁₀₆, 13, 3, 3; 2000 ET₁₀₆, 13, 3, 9; 2000 EU₁₀₆ *, 7, 2, 2; 2000 EV₁₀₆ *, 4, 1, 0; 2000 EW₁₀₆ *, 5, 1, 0; 2000 EX₁₀₆ *, 10, 2, 12; 2000 EY₁₀₆ *, 14, 3, 3; 2000 EA₁₀₇ *, 10, 2, 2; 2000 EB₁₀₇ *, 32, 6, 26; 2000 EC₁₀₇ *, 8, 2, 3; 2000 ED₁₀₇, 29, 6, 93; 2000 EE₁₀₇, 17, 4, 29; 2000 EF₁₀₇, 22, 5, 38; 2000 EJ₁₀₇, 28, 7, 59; 2000 EL₁₀₇ *, 8, 2, 29; 2000 EM₁₀₇ *, 5, 1, 0; 2000 EN₁₀₇ *, 3, 1, 0; 2000 EO₁₀₇ *, 5, 1, 0; 2000 EP₁₀₇ *, 35, 8, 117; 2000 EQ₁₀₇ *, 3, 1, 0; 2000 ER₁₀₇ *, 5, 1, 0; 2000 ES₁₀₇ *, 5, 1, 0; 2000 ET₁₀₇ *, 15, 3, 83; 2000 EU₁₀₇ *, 19, 4, 61; 2000 EV₁₀₇ *, 26, 6, 563; 2000 EW₁₀₇ *, 20, 5, 84; 2000 EX₁₀₇ *, 11, 3, 29; 2000 EY₁₀₇ *, 4, 1, 0; 2000 EZ₁₀₇ *, 4, 1, 0; 2000 EA₁₀₈ *, 4, 1, 0; 2000 EB₁₀₈ *, 24, 5, 31; 2000 EC₁₀₈ *, 25, 5, 884; 2000 ED₁₀₈ *, 14, 3, 28; 2000 EE₁₀₈ *, 23, 6, 65; 2000 EF₁₀₈ *, 29, 6, 485; 2000 EG₁₀₈ *, 43, 8, 60; 2000 EH₁₀₈ *, 34, 6, 31; 2000 EJ₁₀₈ *, 33, 8, 96; 2000 EK₁₀₈ *, 5, 1, 0; 2000 EL₁₀₈ *, 3, 1, 0; 2000 EM₁₀₈ *, 3, 1, 0; 2000 EN₁₀₈ *, 4, 1, 0; 2000 EO₁₀₈ *, 29, 6, 67; 2000 ET₁₀₈ *, 14, 3, 26; 2000 EU₁₀₈, 8, 2, 27; 2000 EV₁₀₈, 19, 4, 28; 2000 EW₁₀₈, 4, 1, 0; 2000 EX₁₀₈ *, 40, 8, 478; 2000 EY₁₀₈ *, 5, 1, 0; 2000 EZ₁₀₈ *, 19, 4, 36; 2000 EA₁₀₉ *, 5, 1, 0; 2000 EB₁₀₉ *, 23, 5, 62; 2000 EC₁₀₉ *, 27, 6, 72; 2000 ED₁₀₉ *, 13, 3, 36; 2000 EE₁₀₉, 4, 1, 0; 2000 EF₁₀₉, 3, 1, 0; 2000 EG₁₀₉, 12, 3, 62; 2000 EL₁₀₉, 4, 1, 0; 2000 EM₁₀₉, 4, 1, 0; 2000 EN₁₀₉, 18, 4, 54; 2000 EO₁₀₉, 5, 1, 0; 2000 EP₁₀₉, 3, 1, 0; 2000 EQ₁₀₉, 5, 1, 0; 2000 ER₁₀₉, 4, 1, 0; 2000 ES₁₀₉, 5, 1, 0; 2000 ET₁₀₉, 5, 1, 0; 2000 EU₁₀₉, 3, 1, 0; 2000 EV₁₀₉, 5, 1, 0; 2000 EW₁₀₉, 5, 1, 0; 2000 EX₁₀₉, 5, 1, 0; 2000 EY₁₀₉, 17, 3, 26; 2000 EA₁₁₀, 13, 3, 27; 2000 EB₁₁₀, 5, 1, 0; 2000 EC₁₁₀, 15, 4, 27; 2000 ED₁₁₀, 28, 6,

2000 EX₁₁₃ *, 9, 2, 30; 2000 EY₁₁₃ *, 4, 1, 0; 2000 EZ₁₁₃ *, 13, 3, 30; 2000 EA₁₁₄ *, 19, 4, 884; 2000 EB₁₁₄ *, 14, 3, 30; 2000 EC₁₁₄ *, 3, 1, 0; 2000 ED₁₁₄ *, 22, 5, 30; 2000 EF₁₁₄ *, 36, 6, 480; 2000 EG₁₁₄ *, 27, 6, 32; 2000 EH₁₁₄ *, 21, 5, 68; 2000 EI₁₁₄ *, 43, 6, 32; 2000 EK₁₁₄ *, 44, 7, 480; 2000 EL₁₁₄ *, 28, 6, 32; 2000 EM₁₁₄ *, 18, 4, 29; 2000 EN₁₁₄ *, 37, 6, 32; 2000 EO₁₁₄ *, 4, 1, 0; 2000 ER₁₁₄ *, 5, 1, 0; 2000 EQ₁₁₄ *, 4, 1, 0; 2000 ES₁₁₄ *, 5, 1, 0; 2000 ET₁₁₄ *, 4, 1, 0; 2000 EU₁₁₄ *, 3, 1, 0; 2000 EV₁₁₄ *, 4, 1, 0; 2000 EW₁₁₄ *, 4, 1, 0; 2000 EX₁₁₄ *, 3, 1, 0; 2000 EY₁₁₄ *, 4, 1, 0; 2000 EZ₁₁₄ *, 5, 1, 0; 2000 EA₁₁₅ *, 4, 1, 0; 2000 EB₁₁₅ *, 5, 1, 0; 2000 EC₁₁₅ *, 5, 1, 0; 2000 ED₁₁₅ *, 4, 1, 0; 2000 EE₁₁₅ *, 8, 2, 8; 2000 EF₁₁₅ *, 5, 1, 0; 2000 EG₁₁₅ *, 5, 1, 0; 2000 EH₁₁₅ *, 4, 1, 0; 2000 EI₁₁₅ *, 5, 1, 0; 2000 EK₁₁₅ *, 4, 1, 0; 2000 EL₁₁₅ *, 4, 1, 0; 2000 EM₁₁₅ *, 5, 1, 0; 2000 EN₁₁₅ *, 4, 1, 0; 2000 EO₁₁₅ *, 3, 1, 0; 2000 EP₁₁₅ *, 5, 1, 0; 2000 EQ₁₁₅ *, 5, 1, 0; 2000 ER₁₁₅ *, 5, 1, 0; 2000 ES₁₁₅ *, 5, 1, 0; 2000 ET₁₁₅ *, 8, 2, 8; 2000 EU₁₁₅ *, 5, 1, 0; 2000 EV₁₁₅ *, 3, 1, 0; 2000 EW₁₁₅ *, 5, 1, 0; 2000 EX₁₁₅ *, 3, 1, 0; 2000 EY₁₁₅ *, 4, 1, 0; 2000 EZ₁₁₅ *, 3, 1, 0; 2000 EA₁₁₆ *, 4, 1, 0; 2000 EB₁₁₆ *, 5, 1, 0; 2000 EC₁₁₆ *, 5, 1, 0; 2000 ED₁₁₆ *, 5, 1, 0; 2000 EE₁₁₆ *, 5, 1, 0; 2000 EF₁₁₆ *, 8, 2, 21; 2000 EJ₁₁₆ *, 4, 1, 0; 2000 EK₁₁₆ *, 5, 1, 0; 2000 EL₁₁₆ *, 5, 1, 0; 2000 EM₁₁₆ *, 4, 1, 0; 2000 EN₁₁₆ *, 3, 1, 0; 2000 EO₁₁₆ *, 4, 1, 0; 2000 EP₁₁₆ *, 4, 1, 0; 2000 EQ₁₁₆ *, 5, 1, 0; 2000 ER₁₁₆ *, 18, 4, 28; 2000 ES₁₁₆ *, 19, 5, 31; 2000 ET₁₁₆ *, 13, 3, 27; 2000 EU₁₁₆ *, 26, 5, 31; 2000 EV₁₁₆ *, 3, 1, 0; 2000 EW₁₁₆ *, 11, 3, 27; 2000 EX₁₁₆ *, 12, 3, 27; 2000 EY₁₁₆ *, 23, 5, 31; 2000 EZ₁₁₆ *, 4, 1, 0; 2000 EA₁₁₇ *, 7, 2, 26; 2000 EB₁₁₇ *, 23, 5, 28; 2000 EC₁₁₇ *, 5, 1, 0; 2000 ED₁₁₇ *, 4, 1, 0; 2000 EE₁₁₇ *, 4, 1, 0; 2000 EF₁₁₇ *, 19, 4, 29; 2000 EG₁₁₇ *, 15, 3, 25; 2000 EH₁₁₇ *, 3, 1, 0; 2000 EI₁₁₇ *, 5, 1, 0; 2000 EK₁₁₇ *, 5, 1, 0; 2000 EL₁₁₇ *, 5, 1, 0; 2000 EM₁₁₇ *, 4, 1, 0; 2000 EN₁₁₇ *, 21, 5, 114; 2000 EO₁₁₇ *, 8, 2, 8; 2000 EP₁₁₇ *, 12, 3, 41; 2000 EQ₁₁₇ *, 5, 1, 0; 2000 ER₁₁₇ *, 5, 1, 0; 2000 ES₁₁₇ *, 3, 1, 0; 2000 ET₁₁₇ *, 5, 1, 0; 2000 EU₁₁₇ *, 10, 3, 41; 2000 EV₁₁₇ *, 5, 1, 0; 2000 EW₁₁₇ *, 5, 1, 0; 2000 EX₁₁₇ *, 5, 1, 0; 2000 EY₁₁₇ *, 5, 1, 0; 2000 EZ₁₁₇ *, 5, 1, 0; 2000 EA₁₁₈ *, 4, 1, 0; 2000 EB₁₁₈ *, 5, 1, 0; 2000 EC₁₁₈ *, 5, 1, 0; 2000 ED₁₁₈ *, 5, 1, 0; 2000 EE₁₁₈ *, 4, 1, 0; 2000 EJ₁₁₈ *, 4, 1, 0; 2000 EK₁₁₈ *, 9, 2, 8; 2000 EL₁₁₈ *, 9, 2, 8; 2000 EM₁₁₈ *, 3, 1, 0; 2000 EN₁₁₈ *, 5, 1, 0; 2000 EO₁₁₈ *, 5, 1, 0; 2000 EV₁₁₈ *, 4, 1, 0; 2000 EW₁₁₈ *, 5, 1, 0; 2000 EX₁₁₈ *, 4, 1, 0; 2000 EY₁₁₈ *, 5, 1, 0; 2000 EZ₁₁₈ *, 5, 1, 0; 2000 EA₁₁₉ *, 5, 1, 0; 2000 EB₁₁₉ *, 5, 1, 0; 2000 EC₁₁₉ *, 9, 2, 8; 2000 ED₁₁₉ *, 5, 1, 0; 2000 EE₁₁₉ *, 4, 1, 0; 2000 EF₁₁₉ *, 5, 1, 0; 2000 EG₁₁₉ *, 5, 1, 0; 2000 EH₁₁₉ *, 5, 1, 0; 2000 EJ₁₁₉ *, 5, 1, 0; 2000 EK₁₁₉ *, 5, 1, 0; 2000 EL₁₁₉ *, 5, 1, 0; 2000 EM₁₁₉ *, 18, 4, 62; 2000 EN₁₁₉ *, 5, 1, 0; 2000 EO₁₁₉ *, 5, 1, 0; 2000 EP₁₁₉ *, 4, 1, 0; 2000 EQ₁₁₉ *, 5, 1, 0; 2000 ER₁₁₉ *, 5, 1, 0; 2000 ES₁₁₉ *, 28, 6, 886; 2000 ET₁₁₉ *, 5, 1, 0; 2000 EU₁₁₉ *, 22, 5, 59; 2000 EV₁₁₉ *, 5, 1, 0; 2000 EW₁₁₉ *, 5, 1, 0; 2000 EX₁₁₉ *, 5, 1, 0; 2000 EY₁₁₉ *, 5, 1, 0; 2000 EZ₁₁₉ *, 19, 4, 59; 2000 EA₁₂₀ *, 5, 1, 0; 2000 EB₁₂₀ *, 13, 3, 38; 2000 EC₁₂₀ *, 14, 3, 38; 2000 ED₁₂₀ *, 5, 1, 0; 2000 EH₁₂₀ *, 15, 3, 38; 2000 EJ₁₂₀ *, 5, 1, 0; 2000 EK₁₂₀ *, 15, 3, 38; 2000 EL₁₂₀ *, 19, 4, 38; 2000 EM₁₂₀ *, 7, 2, 30; 2000 EN₁₂₀ *, 5, 1, 0; 2000 EO₁₂₀ *, 28, 6, 98; 2000 EP₁₂₀ *, 5, 1, 0; 2000 EQ₁₂₀ *, 30, 7, 62; 2000 ER₁₂₀ *, 5, 1, 0; 2000 ES₁₂₀ *, 19, 4, 52; 2000 ET₁₂₀ *, 4, 1, 0; 2000 EU₁₂₀ *, 4, 1, 0; 2000 EV₁₂₀ *, 4, 1, 0; 2000 EW₁₂₀ *, 5, 1, 0; 2000 EX₁₂₀ *, 4, 1, 0; 2000 EY₁₂₀ *, 4, 1, 0; 2000 EZ₁₂₀ *, 20, 4, 38; 2000 EA₁₂₁ *, 10, 2, 8; 2000 EB₁₂₁ *, 3, 1, 0; 2000 EC₁₂₁ *, 3, 1, 0; 2000 ED₁₂₁ *, 4, 1, 0; 2000 EE₁₂₁ *, 5, 1, 0; 2000 EH₁₂₁ *, 5, 1, 0; 2000 EK₁₂₁ *, 8, 2, 8; 2000 EL₁₂₁ *, 17, 4, 30; 2000 EM₁₂₁ *, 16, 4, 66; 2000 EN₁₂₁ *, 4, 1, 0; 2000 EO₁₂₁ *, 4, 1, 0; 2000 EP₁₂₁ *, 4, 1, 0; 2000 EQ₁₂₁ *, 5, 1, 0; 2000 ER₁₂₁ *, 4, 1, 0; 2000 ES₁₂₁ *, 5, 1, 0; 2000 ET₁₂₁ *, 7, 2, 30; 2000 EB₁₂₂ *, 3, 1, 0; 2000 EC₁₂₂ *, 10, 2, 7; 2000 ED₁₂₂ *, 4, 1, 0; 2000 EE₁₂₂ *, 4, 1, 0; 2000 EF₁₂₂ *, 10, 2, 7; 2000 EG₁₂₂ *, 5, 1, 0; 2000 EH₁₂₂ *, 13, 3, 22; 2000 EJ₁₂₂ *, 5, 1, 0; 2000 EK₁₂₂ *, 3, 1, 0; 2000 EL₁₂₂ *, 4, 1, 0; 2000 EM₁₂₂ *, 9, 3, 36; 2000 EN₁₂₂ *, 3, 1, 0; 2000 EO₁₂₂ *, 5, 1, 0; 2000 EP₁₂₂ *, 16, 4, 68; 2000 EQ₁₂₂ *, 3, 1, 0; 2000 ER₁₂₂ *, 3, 1, 0; 2000 ES₁₂₂ *, 18, 4, 116; 2000 ET₁₂₂ *, 9, 2, 8; 2000 EU₁₂₂ *, 3, 1, 0; 2000 EV₁₂₂ *, 9, 2, 8; 2000 EW₁₂₂ *, 5, 1, 0; 2000 EX₁₂₂ *, 5, 1, 0; 2000 EY₁₂₂ *, 3, 1, 0; 2000 EZ₁₂₂ *, 19, 4, 27; 2000 EA₁₂₃ *, 26, 6, 68; 2000 EB₁₂₃ *, 14, 3, 22; 2000 EC₁₂₃ *, 19, 4, 27; 2000 ED₁₂₃ *, 19, 4, 27; 2000 EE₁₂₃ *, 5, 1, 0; 2000 EF₁₂₃ *, 8, 2, 9; 2000 EG₁₂₃ *, 5, 1, 0; 2000 EH₁₂₃ *, 3, 1, 0; 2000 EJ₁₂₃ *, 5, 1, 0; 2000 EK₁₂₃ *, 5, 1, 0; 2000 EL₁₂₃ *, 5, 1, 0; 2000 EM₁₂₃ *, 5, 1, 0; 2000 EN₁₂₃ *, 3, 1, 0; 2000 EO₁₂₃ *, 5, 1, 0; 2000 EP₁₂₃ *, 4, 1, 0; 2000 EQ₁₂₃ *, 5, 1, 0; 2000 ER₁₂₃ *, 3, 1, 0; 2000 ES₁₂₃ *, 8, 2, 8; 2000 ET₁₂₃ *, 5, 1, 0; 2000 EU₁₂₃ *, 5, 1, 0; 2000 EV₁₂₃ *, 4, 1, 0; 2000 EW₁₂₃ *, 3, 1, 0; 2000 EX₁₂₃ *, 5, 1, 0; 2000 EY₁₂₃ *, 5, 1, 0; 2000 EZ₁₂₃ *, 3, 1, 0; 2000 EA₁₂₄ *, 21, 4, 30; 2000 EB₁₂₄ *, 10, 2, 8; 2000 EC₁₂₄ *, 3, 1, 0; 2000 ED₁₂₄ *, 5, 1, 0; 2000 EE₁₂₄ *, 5, 1, 0; 2000 EF₁₂₄ *, 9, 2, 1; 2000 EG₁₂₄ *, 4, 1, 0; 2000 EH₁₂₄ *, 3, 1, 0; 2000 EI₁₂₄ *, 4, 1, 0; 2000 EK₁₂₄ *, 5, 1, 0; 2000 EL₁₂₄ *, 21, 5, 52; 2000 EM₁₂₄ *, 24, 4, 34; 2000 EN₁₂₄ *, 5, 1, 0; 2000 EO₁₂₄ *, 5, 1, 0; 2000 EP₁₂₄ *, 5, 1, 0; 2000 EQ₁₂₄ *, 5, 1, 0; 2000 ER₁₂₄ *, 5, 1, 0; 2000 ES₁₂₄ *, 4, 1, 0; 2000 ET₁₂₄ *, 5, 1, 0; 2000 EU₁₂₄ *, 4, 1, 0; 2000 EV₁₂₄ *, 17, 4, 27; 2000 EW₁₂₄ *, 4, 1, 0; 2000 EX₁₂₄ *, 9, 2, 30; 2000 EY₁₂₄ *, 3, 1, 0; 2000 EZ₁₂₄ *, 5, 1, 0; 2000 EA₁₂₅ *, 4, 1, 0; 2000 EB₁₂₅ *, 5, 1, 0; 2000 EC₁₂₅ *, 5, 1, 0; 2000 ED₁₂₅ *, 5, 1, 0; 2000 EE₁₂₅ *, 4, 1, 0; 2000 EF₁₂₅ *, 4, 1, 0; 2000 EG₁₂₅ *, 13, 3, 22; 2000 EH₁₂₅ *, 3, 1, 0; 2000 EI₁₂₅ *, 5, 1, 0; 2000 EK₁₂₅ *, 3, 1, 0; 2000 EL₁₂₅ *, 4, 1, 0; 2000 EM₁₂₅ *, 3, 1, 0; 2000 EN₁₂₅ *, 4, 1, 0; 2000 EO₁₂₅ *, 5, 1, 0; 2000 EP₁₂₅ *, 4, 1, 0; 2000 EQ₁₂₅ *, 5, 1, 0; 2000 ER₁₂₅ *, 4, 1, 0; 2000 ES₁₂₅ *, 5, 1, 0; 2000 ET₁₂₅ *, 4, 1, 0; 2000 EU₁₂₅ *, 5, 1, 0; 2000 EV₁₂₅ *, 5, 1, 0; 2000 EW₁₂₅ *, 10, 3, 27; 2000 EX₁₂₅ *, 3, 1, 0; 2000 EY₁₂₅ *, 4, 1, 0; 2000 EZ₁₂₅ *, 5, 1, 0; 2000 EA₁₂₆ *, 14, 3, 27; 2000 EB₁₂₆ *, 5, 1, 0; 2000 EC₁₂₆ *, 4, 1, 0; 2000 ED₁₂₆ *, 15, 3, 27; 2000 EE₁₂₆ *, 3, 1, 0; 2000 EF₁₂₆ *, 5, 1, 0; 2000 EG₁₂₆ *, 5, 1, 0; 2000 EH₁₂₆ *, 18, 4, 27; 2000 EI₁₂₆ *, 24, 6, 27; 2000 EN₁₂₆ *, 4, 1, 0; 2000 EO₁₂₆ *, 4, 1, 0; 2000 EP₁₂₆ *, 4, 1, 0; 2000 EQ₁₂₆ *, 3, 1, 0; 2000 ER₁₂₆ *, 9, 2, 17; 2000 ES₁₂₆ *, 3, 1, 0; 2000 ET₁₂₆ *, 5, 1, 0; 2000 EU₁₂₆ *, 13, 3, 27; 2000 EV₁₂₆ *, 35, 8,

27; 2000 EW₁₂₆ *, 4, 1, 0; 2000 EX₁₂₆ *, 35, 8, 480; 2000 EY₁₂₆ *, 23, 5, 59; 2000 EZ₁₂₆ *, 5, 1, 0; 2000 EA₁₂₇ *, 5, 1, 0; 2000 EB₁₂₇ *, 4, 1, 0; 2000 EC₁₂₇ *, 3, 1, 0; 2000 ED₁₂₇ *, 3, 1, 0; 2000 EE₁₂₇ *, 22, 5, 57; 2000 EF₁₂₇ *, 4, 1, 0; 2000 EG₁₂₇ *, 5, 1, 0; 2000 EH₁₂₇ *, 25, 4, 27; 2000 EI₁₂₇ *, 14, 3, 27; 2000 EL₁₂₇ *, 25, 6, 57; 2000 EN₁₂₇ *, 12, 3, 64; 2000 EO₁₂₇ *, 5, 1, 0; 2000 EP₁₂₇ *, 22, 5, 57; 2000 EQ₁₂₇ *, 33, 7, 91; 2000 ER₁₂₇ *, 23, 5, 57; 2000 ES₁₂₇ *, 37, 7, 27; 2000 ET₁₂₇ *, 10, 2, 27; 2000 EX₁₂₇ *, 18, 4, 29; 2000 EY₁₂₇ *, 4, 1, 0; 2000 EZ₁₂₇ *, 5, 1, 0; 2000 EA₁₂₈ *, 7, 2, 16; 2000 EB₁₂₈ *, 28, 5, 29; 2000 EC₁₂₈ *, 8, 2, 27; 2000 ED₁₂₈ *, 18, 4, 59; 2000 EE₁₂₈ *, 12, 3, 57; 2000 EF₁₂₈ *, 3, 1, 0; 2000 EH₁₂₈ *, 5, 1, 0; 2000 EJ₁₂₈ *, 19, 3, 29; 2000 EK₁₂₈ *, 5, 1, 0; 2000 EL₁₂₈ *, 18, 4, 29; 2000 EM₁₂₈ *, 3, 1, 0; 2000 EN₁₂₈ *, 4, 1, 0; 2000 EO₁₂₈ *, 4, 1, 0; 2000 EP₁₂₈ *, 3, 1, 0; 2000 EQ₁₂₈ *, 3, 1, 0; 2000 ER₁₂₈ *, 5, 1, 0; 2000 ET₁₂₈ *, 4, 1, 0; 2000 EU₁₂₈ *, 4, 1, 0; 2000 EV₁₂₈ *, 4, 1, 0; 2000 EW₁₂₈ *, 22, 5, 29; 2000 EX₁₂₈ *, 12, 3, 473; 2000 EY₁₂₈ *, 15, 4, 27; 2000 EZ₁₂₈ *, 11, 3, 27; 2000 EA₁₂₉ *, 15, 4, 29; 2000 EB₁₂₉ *, 5, 1, 0; 2000 EC₁₂₉ *, 4, 1, 0; 2000 ED₁₂₉ *, 12, 3, 22; 2000 EE₁₂₉ *, 22, 5, 29; 2000 EF₁₂₉ *, 22, 5, 59; 2000 EG₁₂₉ *, 13, 3, 22; 2000 EH₁₂₉ *, 4, 1, 0; 2000 EJ₁₂₉ *, 12, 3, 22; 2000 EK₁₂₉ *, 19, 4, 29; 2000 EL₁₂₉ *, 4, 1, 0; 2000 EM₁₂₉ *, 8, 2, 29; 2000 EN₁₂₉ *, 3, 1, 0; 2000 EO₁₂₉ *, 5, 1, 0; 2000 EP₁₂₉ *, 54, 11, 59; 2000 EQ₁₂₉ *, 21, 5, 57; 2000 ER₁₂₉ *, 11, 3, 24; 2000 ES₁₂₉ *, 5, 1, 0; 2000 ET₁₂₉ *, 17, 4, 27; 2000 EU₁₂₉ *, 22, 5, 29; 2000 EV₁₂₉ *, 11, 3, 25; 2000 EW₁₂₉ *, 23, 5, 29; 2000 EX₁₂₉ *, 61, 13, 93; 2000 EY₁₂₉ *, 5, 1, 0; 2000 EZ₁₂₉ *, 22, 5, 57; 2000 EA₁₃₀ *, 16, 4, 29; 2000 EB₁₃₀ *, 18, 5, 29; 2000 EC₁₃₀ *, 27, 6, 480; 2000 ED₁₃₀ *, 5, 1, 0; 2000 EE₁₃₀ *, 9, 2, 27; 2000 EF₁₃₀ *, 24, 6, 64; 2000 EG₁₃₀ *, 19, 4, 57; 2000 EH₁₃₀ *, 5, 1, 0; 2000 EI₁₃₀ *, 5, 1, 0; 2000 EJ₁₃₀ *, 3, 1, 0; 2000 EK₁₃₀ *, 5, 1, 0; 2000 EL₁₃₀ *, 13, 3, 34; 2000 EN₁₃₀ *, 9, 2, 27; 2000 EO₁₃₀ *, 5, 1, 0; 2000 EP₁₃₀ *, 5, 1, 0; 2000 EQ₁₃₀ *, 19, 4, 38; 2000 ER₁₃₀ *, 5, 1, 0; 2000 ES₁₃₀ *, 5, 1, 0; 2000 ET₁₃₀ *, 3, 1, 0; 2000 EU₁₃₀ *, 22, 5, 29; 2000 EV₁₃₀ *, 19, 5, 29; 2000 EW₁₃₀ *, 5, 1, 0; 2000 EX₁₃₀ *, 20, 5, 29; 2000 EY₁₃₀ *, 20, 5, 1069; 2000 EZ₁₃₀ *, 5, 1, 0; 2000 EA₁₃₁ *, 5, 1, 0; 2000 EB₁₃₁ *, 5, 1, 0; 2000 EC₁₃₁ *, 5, 1, 0; 2000 ED₁₃₁ *, 5, 1, 0; 2000 EE₁₃₁ *, 19, 4, 478; 2000 EF₁₃₁ *, 4, 1, 0; 2000 EG₁₃₁ *, 5, 1, 0; 2000 EH₁₃₁ *, 5, 1, 0; 2000 EI₁₃₁ *, 9, 2, 25; 2000 EK₁₃₁ *, 5, 1, 0; 2000 EL₁₃₁ *, 5, 1, 0; 2000 EM₁₃₁ *, 5, 1, 0; 2000 EN₁₃₁ *, 5, 1, 0; 2000 EO₁₃₁ *, 13, 3, 26; 2000 EP₁₃₁ *, 12, 3, 26; 2000 EQ₁₃₁ *, 22, 5, 28; 2000 ER₁₃₁ *, 13, 3, 25; 2000 ES₁₃₁ *, 4, 1, 0; 2000 ET₁₃₁ *, 12, 3, 27; 2000 EU₁₃₁ *, 4, 1, 0; 2000 EV₁₃₁ *, 13, 4, 29; 2000 EW₁₃₁ *, 5, 1, 0; 2000 EX₁₃₁ *, 39, 7, 93; 2000 EY₁₃₁ *, 8, 2, 29; 2000 EZ₁₃₁ *, 4, 1, 0; 2000 EA₁₃₂ *, 3, 1, 0; 2000 EB₁₃₂ *, 4, 1, 0; 2000 EC₁₃₂ *, 4, 1, 0; 2000 ED₁₃₂ *, 3, 1, 0; 2000 EE₁₃₂ *, 4, 1, 0; 2000 EF₁₃₂ *, 16, 4, 28; 2000 EG₁₃₂ *, 16, 4, 28; 2000 EH₁₃₂ *, 12, 3, 26; 2000 EI₁₃₂ *, 13, 3, 26; 2000 EK₁₃₂ *, 33, 7, 60; 2000 EL₁₃₂ *, 10, 2, 25; 2000 EM₁₃₂ *, 26, 6, 33; 2000 EN₁₃₂ *, 12, 3, 26; 2000 EO₁₃₂ *, 5, 1, 0; 2000 EP₁₃₂ *, 4, 1, 0; 2000 EQ₁₃₂ *, 14, 4, 28; 2000 ER₁₃₂ *, 5, 1, 0; 2000 ES₁₃₂ *, 15, 4, 30; 2000 ET₁₃₂ *, 5, 1, 0; 2000 EU₁₃₂ *, 13, 3, 26; 2000 EV₁₃₂ *, 14, 3, 26; 2000 EW₁₃₂ *, 17, 4, 26; 2000 EX₁₃₂ *, 13, 3, 26; 2000 EY₁₃₂ *, 5, 1, 0; 2000 EZ₁₃₂ *, 5, 1, 0; 2000 EA₁₃₃ *, 13, 3, 26; 2000 EB₁₃₃ *, 18, 4, 30; 2000 EC₁₃₃ *, 5, 1, 0; 2000 ED₁₃₃ *, 5, 1, 0; 2000 EE₁₃₃ *, 12, 3, 26; 2000 EF₁₃₃ *, 16, 4, 26; 2000 EG₁₃₃ *, 10, 2, 25; 2000 EH₁₃₃ *, 16, 4, 28; 2000 EI₁₃₃ *, 23, 6, 33; 2000 EK₁₃₃ *, 22, 5, 27; 2000 EL₁₃₃ *, 12, 3, 26; 2000 EM₁₃₃ *, 10, 2, 25; 2000 EN₁₃₃ *, 25, 5, 30; 2000 EO₁₃₃ *, 4, 1, 0; 2000 EP₁₃₃ *, 4, 1, 0; 2000 ER₁₃₃ *, 19, 4, 27; 2000 ES₁₃₃ *, 12, 3, 22; 2000 ET₁₃₃ *, 12, 3, 22; 2000 EU₁₃₃ *, 15, 3, 10; 2000 EV₁₃₃ *, 13, 3, 10; 2000 EW₁₃₃ *, 15, 3, 10; 2000 EX₁₃₃ *, 14, 3, 57; 2000 EY₁₃₃ *, 16, 4, 30; 2000 EZ₁₃₃ *, 24, 6, 67; 2000 EA₁₃₄ *, 13, 3, 31; 2000 EB₁₃₄ *, 8, 2, 7; 2000 EC₁₃₄ *, 8, 2, 7; 2000 ED₁₃₄ *, 14, 3, 10; 2000 EE₁₃₄ *, 9, 2, 10; 2000 EF₁₃₄ *, 13, 3, 86; 2000 EH₁₃₄ *, 8, 2, 7; 2000 EI₁₃₄ *, 42, 9, 897; 2000 EK₁₃₄ *, 8, 2, 7; 200

2000 APR. 18

M.P.C. 39773

3, 10; 2000 EV₁₃₈, 19, 4, 15; 2000 EW₁₃₈, 31, 7, 70; 2000 EX₁₃₈, 22, 5, 91; 2000 EY₁₃₈, 27, 5, 34; 2000 EZ₁₃₈, 14, 3, 10; 2000 EA₁₃₉, 5, 1, 0; 2000 EB₁₃₉, 5, 1, 0; 2000 EC₁₃₉, 30, 7, 97; 2000 ED₁₃₉, 42, 9, 506; 2000 EE₁₃₉, 28, 6, 64; 2000 EF₁₃₉, 24, 5, 30; 2000 EG₁₃₉ *, 5, 1, 0; 2000 EH₁₃₉ *, 4, 1, 0; 2000 EJ₁₃₉ *, 5, 1, 0; 2000 EK₁₃₉ *, 8, 2, 8; 2000 EL₁₃₉ *, 3, 1, 0; 2000 EM₁₃₉, 3, 1, 0; 2000 EN₁₃₉, 18, 4, 91; 2000 EO₁₃₉, 33, 7, 70; 2000 EP₁₃₉, 18, 4, 24; 2000 EQ₁₃₉, 13, 3, 88; 2000 ER₁₃₉, 14, 3, 88; 2000 ES₁₃₉, 20, 4, 15; 2000 ET₁₃₉, 19, 4, 15; 2000 EU₁₃₉, 17, 4, 27; 2000 EW₁₃₉, 19, 4, 15; 2000 EX₁₃₉, 10, 2, 7; 2000 EY₁₃₉, 19, 4, 62; 2000 EA₁₄₀, 4, 1, 0; 2000 EB₁₄₀, 36, 7, 31; 2000 EC₁₄₀ *, 17, 3, 18; 2000 EE₁₄₀ *, 22, 5, 34; 2000 EF₁₄₀ *, 28, 6, 39; 2000 EG₁₄₀, 3, 1, 0; 2000 EJ₁₄₀, 28, 8, 91; 2000 EK₁₄₀, 11, 3, 88; 2000 EL₁₄₀, 4, 1, 0; 2000 EN₁₄₀, 4, 1, 0; 2000 EO₁₄₀, 10, 2, 29; 2000 EP₁₄₀, 5, 1, 0; 2000 EQ₁₄₀, 4, 1, 0; 2000 ER₁₄₀, 5, 1, 0; 2000 ES₁₄₀, 5, 1, 0; 2000 ET₁₄₀, 3, 1, 0; 2000 EU₁₄₀, 5, 1, 0; 2000 EV₁₄₀, 5, 1, 0; 2000 EW₁₄₀, 5, 1, 0; 2000 EX₁₄₀, 5, 1, 0; 2000 EY₁₄₀, 5, 1, 0; 2000 EZ₁₄₀, 3, 1, 0; 2000 EA₁₄₁, 18, 4, 53; 2000 EB₁₄₁, 5, 1, 0; 2000 EC₁₄₁, 4, 1, 0; 2000 ED₁₄₁, 4, 1, 0; 2000 EE₁₄₁, 3, 1, 0; 2000 EF₁₄₁, 3, 1, 0; 2000 EG₁₄₁, 5, 1, 0; 2000 EH₁₄₁, 5, 1, 0; 2000 EJ₁₄₁, 5, 1, 0; 2000 EK₁₄₁, 5, 1, 0; 2000 EL₁₄₁, 13, 3, 33; 2000 EM₁₄₁, 18, 4, 34; 2000 EN₁₄₁, 24, 5, 36; 2000 EO₁₄₁, 27, 6, 477; 2000 EQ₁₄₁, 23, 5, 29; 2000 ER₁₄₁, 29, 5, 59; 2000 ES₁₄₁, 19, 4, 27; 2000 ET₁₄₁, 29, 6, 64; 2000 EU₁₄₁, 4, 1, 0; 2000 EV₁₄₁, 13, 3, 37; 2000 EW₁₄₁, 17, 4, 37; 2000 EX₁₄₁, 16, 4, 37; 2000 EY₁₄₁, 22, 5, 68; 2000 EZ₁₄₁, 20, 5, 68; 2000 EA₁₄₂, 4, 1, 0; 2000 EB₁₄₂, 11, 3, 37; 2000 EC₁₄₂ *, 4, 1, 0; 2000 ED₁₄₂ *, 3, 1, 0; 2000 EE₁₄₂ *, 5, 1, 0; 2000 EF₁₄₂ *, 5, 1, 0; 2000 EG₁₄₂ *, 3, 1, 0; 2000 EJ₁₄₂ *, 4, 1, 0; 2000 EK₁₄₂, 5, 1, 0; 2000 EL₁₄₂ *, 3, 1, 0; 2000 EM₁₄₂ *, 3, 1, 0; 2000 EN₁₄₂ *, 4, 1, 0; 2000 EO₁₄₂ *, 4, 1, 0; 2000 EP₁₄₂ *, 5, 1, 0; 2000 EQ₁₄₂ *, 4, 1, 0; 2000 ER₁₄₂ *, 4, 1, 0; 2000 ES₁₄₂ *, 3, 1, 0; 2000 ET₁₄₂, 4, 1, 0; 2000 EU₁₄₂, 5, 1, 0; 2000 EV₁₄₂, 4, 1, 0; 2000 EW₁₄₂, 4, 1, 0; 2000 EX₁₄₂, 4, 1, 0; 2000 EY₁₄₂, 5, 1, 0; 2000 EZ₁₄₂, 3, 1, 0; 2000 EA₁₄₃, 3, 1, 0; 2000 EB₁₄₃, 5, 1, 0; 2000 EC₁₄₃, 5, 1, 0; 2000 ED₁₄₃, 5, 1, 0; 2000 EE₁₄₃, 3, 1, 0; 2000 EF₁₄₃, 4, 1, 0; 2000 EG₁₄₃, 5, 1, 0; 2000 EH₁₄₃, 4, 1, 0; 2000 EJ₁₄₃, 3, 1, 0; 2000 EK₁₄₃ *, 4, 1, 0; 2000 EL₁₄₃ *, 5, 1, 0; 2000 EM₁₄₃ *, 4, 1, 0; 2000 EN₁₄₃ *, 4, 1, 0; 2000 EO₁₄₃ *, 3, 1, 0; 2000 EP₁₄₃ *, 5, 1, 0; 2000 EQ₁₄₃ *, 4, 1, 0; 2000 ER₁₄₃ *, 5, 1, 0; 2000 ES₁₄₃ *, 3, 1, 0; 2000 ET₁₄₃ *, 4, 1, 0; 2000 EU₁₄₃ *, 5, 1, 0; 2000 EV₁₄₃ *, 5, 1, 0; 2000 EW₁₄₃ *, 3, 1, 0; 2000 EX₁₄₃ *, 4, 1, 0; 2000 EY₁₄₃ *, 3, 1, 0; 2000 EZ₁₄₃, 5, 1, 0; 2000 EA₁₄₄, 16, 4, 56; 2000 EB₁₄₄, 4, 1, 0; 2000 EC₁₄₄, 16, 4, 84; 2000 ED₁₄₄, 5, 1, 0; 2000 EE₁₄₄, 5, 1, 0; 2000 EF₁₄₄, 5, 1, 0; 2000 EG₁₄₄, 4, 1, 0; 2000 EH₁₄₄, 5, 1, 0; 2000 EJ₁₄₄, 5, 1, 0; 2000 EK₁₄₄, 4, 1, 0; 2000 EL₁₄₄, 4, 1, 0; 2000 EM₁₄₄, 5, 1, 0; 2000 EN₁₄₄, 5, 1, 0; 2000 EO₁₄₄, 3, 1, 0; 2000 EP₁₄₄, 5, 1, 0; 2000 EQ₁₄₄, 4, 1, 0; 2000 ER₁₄₄, 5, 1, 0; 2000 ET₁₄₄, 5, 1, 0; 2000 EV₁₄₄, 5, 1, 0; 2000 EW₁₄₄, 15, 3, 30; 2000 EX₁₄₄, 17, 4, 32; 2000 EY₁₄₄, 5, 1, 0; 2000 EZ₁₄₄, 32, 6, 30; 2000 EA₁₄₅, 3, 1, 0; 2000 EB₁₄₅, 5, 1, 0; 2000 EC₁₄₅, 19, 4, 30; 2000 ED₁₄₅, 5, 1, 0; 2000 EE₁₄₅, 5, 1, 0; 2000 EF₁₄₅, 14, 3, 30; 2000 EG₁₄₅, 13, 3, 30; 2000 EH₁₄₅, 15, 3, 30; 2000 EI₁₄₅, 23, 5, 32; 2000 EK₁₄₅, 19, 4, 32; 2000 EL₁₄₅, 18, 4, 32; 2000 EM₁₄₅, 18, 4, 32; 2000 EN₁₄₅, 3, 1, 0; 2000 EO₁₄₅, 15, 4, 472; 2000 EP₁₄₅, 3, 1, 0; 2000 EQ₁₄₅, 7, 2, 29; 2000 ES₁₄₅ *, 16, 4, 34; 2000 ET₁₄₅ *, 3, 1, 0; 2000 EV₁₄₅, 23, 5, 61; 2000 EW₁₄₅, 29, 7, 119; 2000 EX₁₄₅ *, 4, 1, 0; 2000 EY₁₄₅ *, 8, 1, 0; 2000 EZ₁₄₅, 10, 2, 29; 2000 EA₁₄₆, 4, 1, 0; 2000 EB₁₄₆ *, 4, 1, 0; 2000 EC₁₄₆ *, 4, 1, 0; 2000 ED₁₄₆ *, 3, 1, 0; 2000 EE₁₄₆ *, 3, 1, 0; 2000 EF₁₄₆, 3, 1, 0; 2000 EG₁₄₆, 5, 1, 0; 2000 EH₁₄₆, 5, 1, 0; 2000 EJ₁₄₆, 5, 1, 0; 2000 EK₁₄₆, 4, 1, 0; 2000 EL₁₄₆, 5, 1, 0; 2000 EM₁₄₆ *, 4, 1, 0; 2000 EN₁₄₆ *, 14, 3, 30; 2000 EO₁₄₆ *, 13, 3, 30; 2000 EP₁₄₆ *, 5, 1, 0; 2000 EQ₁₄₆ *, 5, 1, 0; 2000 ER₁₄₆ *, 4, 1, 0; 2000 ES₁₄₆ *, 5, 1, 0; 2000 ET₁₄₆ *, 5, 1, 0; 2000 EU₁₄₆ *, 5, 1, 0; 2000 EV₁₄₆ *, 22, 5, 61; 2000 EW₁₄₆ *, 5, 1, 0; 2000 EX₁₄₆ *, 5, 1, 0; 2000 EY₁₄₆ *, 18, 4, 35; 2000 EZ₁₄₆ *, 13, 3, 29; 2000 EA₁₄₇ *, 5, 1, 0; 2000 EB₁₄₇ *, 4, 1, 0; 2000 EC₁₄₇ *, 3, 1, 0; 2000 ED₁₄₇ *, 4, 1, 0; 2000 EE₁₄₇ *, 4, 1, 0; 2000 EF₁₄₇ *, 3, 1, 0; 2000 EG₁₄₇, 30, 6, 31; 2000 EH₁₄₇, 11, 3, 30; 2000 EJ₁₄₇, 22, 5, 516; 2000 EK₁₄₇, 25, 5, 31; 2000 EL₁₄₇, 34, 6, 31; 2000 EM₁₄₇, 12, 3, 29; 2000 EN₁₄₇, 28, 4, 4; 2000 EO₁₄₇, 14, 3, 29; 2000 EP₁₄₇, 24, 5, 31; 2000 EQ₁₄₇, 18, 4, 31; 2000 ER₁₄₇, 23, 5, 29; 2000 ES₁₄₇, 15, 3, 3; 2000 ET₁₄₇, 26, 6, 68; 2000 EU₁₄₇, 21, 5, 32; 2000 EV₁₄₇ *, 5, 1, 0; 2000 EW₁₄₇ *, 17, 4, 35; 2000 EX₁₄₇ *, 5, 1, 0; 2000 EY₁₄₇ *, 5, 1, 0; 2000 EZ₁₄₇, 20, 4, 32; 2000 EA₁₄₈, 24, 5, 31; 2000 EB₁₄₈, 20, 4, 32; 2000 EC₁₄₈, 25, 5, 32; 2000 ED₁₄₈, 40, 6, 32; 2000 EE₁₄₈, 30, 6, 32; 2000 EF₁₄₈, 24, 5, 32; 2000 EG₁₄₈, 32, 6, 32; 2000 EH₁₄₈, 20, 4, 32; 2000 EI₁₄₈, 18, 4, 32; 2000 EK₁₄₈, 29, 5, 32; 2000 EL₁₄₈, 30, 6, 32; 2000 EM₁₄₈, 30, 6, 32; 2000 EN₁₄₈, 33, 7, 481; 2000 EO₁₄₈, 25, 5, 32; 2000 EP₁₄₈, 24, 5, 32; 2000 EQ₁₄₈, 28, 6, 32; 2000 ER₁₄₈, 30, 6, 32; 2000 ES₁₄₈, 24, 5, 32; 2000 ET₁₄₈, 26, 6, 68; 2000 EU₁₄₈, 39, 7, 447; 2000 EV₁₄₈, 18, 4, 32; 2000 EW₁₄₈, 36, 7, 68; 2000 EX₁₄₈, 29, 6, 32; 2000 EY₁₄₈, 21, 5, 32; 2000 EZ₁₄₈, 55, 8, 35; 2000 EA₁₄₉ *, 3, 1, 0; 2000 EB₁₄₉ *, 9, 2, 23; 2000 EC₁₄₉ *, 5, 1, 0; 2000 ED₁₄₉ *, 8, 2, 23; 2000 EE₁₄₉ *, 4, 1, 0; 2000 EF₁₄₉ *, 4, 1, 0; 2000 EG₁₄₉ *, 5, 1, 0; 2000 EH₁₄₉ *, 5, 1, 0; 2000 EI₁₄₉ *, 5, 1, 0; 2000 EK₁₄₉ *, 4, 1, 0; 2000 EL₁₄₉ *, 4, 1, 0; 2000 EM₁₄₉ *, 5, 1, 0; 2000 EN₁₄₉ *, 5, 1, 0; 2000 EO₁₄₉ *, 5, 1, 0; 2000 EP₁₄₉ *, 5, 1, 0; 2000 EQ₁₄₉ *, 5, 1, 0; 2000 ER₁₄₉ *, 4, 1, 0; 2000 ES₁₄₉ *, 5, 1, 0; 2000 ET₁₄₉ *, 3, 1, 0; 2000 EU₁₄₉ *, 17, 4, 57; 2000 EV₁₄₉ *, 18, 4, 34; 2000 EW₁₄₉ *, 23, 5, 92; 2000 EX₁₄₉ *, 3, 1, 0; 2000 EY₁₄₉ *, 3, 1, 0; 2000 EZ₁₄₉ *, 16, 4, 34; 2000 EA₁₅₀ *, 33, 7, 97; 2000 EB₁₅₀ *, 3, 1, 0; 2000 EC₁₅₀, 5, 1, 0; 2000 ED₁₅₀, 5, 1, 0; 2000 EF₁₅₀, 5, 1, 0; 2000 EG₁₅₀, 5, 1, 0; 2000 EH₁₅₀, 3, 1, 0; 2000 EJ₁₅₀, 5, 1, 0; 2000 EK₁₅₀, 8, 2, 8; 2000 EL₁₅₀, 10, 2, 8; 2000 EM₁₅₀, 5, 1, 0; 2000 EN₁₅₀, 3, 1, 0; 2000 EO₁₅₀,

4, 1, 0; 2000 EP₁₅₀, 30, 7, 60; 2000 EQ₁₅₀, 5, 1, 0; 2000 ER₁₅₀, 12, 3, 33; 2000 ES₁₅₀, 37, 8, 38; 2000 ET₁₅₀, 23, 5, 478; 2000 EU₁₅₀, 26, 6, 36; 2000 EV₁₅₀, 5, 1, 0; 2000 EW₁₅₀, 12, 3, 26; 2000 EX₁₅₀, 15, 4, 57; 2000 EY₁₅₀, 33, 6, 30; 2000 EZ₁₅₀, 29, 5, 30; 2000 EA₁₅₁, 15, 3, 28; 2000 EB₁₅₁, 25, 5, 33; 2000 EC₁₅₁, 25, 5, 33; 2000 ED₁₅₁, 23, 5, 65; 2000 EE₁₅₁, 28, 6, 62; 2000 EF₁₅₁, 29, 6, 477; 2000 EG₁₅₁, 20, 4, 15; 2000 EH₁₅₁, 5, 1, 0; 2000 EJ₁₅₁, 23, 5, 69; 2000 EK₁₅₁, 15, 3, 27; 2000 EL₁₅₁ *, 5, 1, 0; 2000 EM₁₅₁, 5, 1, 0; 2000 EN₁₅₁ *, 3, 1, 0; 2000 EO₁₅₁, 14, 3, 83; 2000 EP₁₅₁ *, 3, 1, 0; 2000 EQ₁₅₁ *, 3, 1, 0; 2000 ER₁₅₁, 8, 2, 29; 2000 ES₁₅₁, 5, 1, 0; 2000 ET₁₅₁, 5, 1, 0; 2000 EU₁₅₁, 5, 1, 0; 2000 EV₁₅₁, 5, 1, 0; 2000 EW₁₅₁, 4, 1, 0; 2000 EX₁₅₁, 4, 1, 0; 2000 EY₁₅₁, 5, 1, 0; 2000 EZ₁₅₁, 5, 1, 0; 2000 EA₁₅₂, 5, 1, 0; 2000 EB₁₅₂, 5, 1, 0; 2000 EC₁₅₂, 5, 1, 0; 2000 ED₁₅₂, 5, 1, 0; 2000 EE₁₅₂, 5, 1, 0; 2000 EF₁₅₂, 5, 1, 0; 2000 EG₁₅₂, 5, 1, 0; 2000 EH₁₅₂, 4, 1, 0; 2000 EJ₁₅₂, 9, 2, 25; 2000 EK₁₅₂, 5, 1, 0; 2000 EL₁₅₂, 4, 1, 0; 2000 EM₁₅₂, 26, 6, 66; 2000 EN₁₅₂, 3, 1, 0; 2000 EO₁₅₂, 4, 1, 0; 2000 EP₁₅₂, 10, 2, 8; 2000 EQ₁₅₂, 3, 1, 0; 2000 ER₁₅₂, 19, 4, 30; 2000 ES₁₅₂, 4, 1, 0; 2000 ET₁₅₂, 5, 1, 0; 2000 EU₁₅₂, 5, 1, 0; 2000 EV₁₅₂, 28, 6, 57; 2000 EW₁₅₂, 5, 1, 0; 2000 EX₁₅₂, 5, 1, 0; 2000 EY₁₅₂, 19, 5, 29; 2000 EB₁₅₃, 4, 1, 0; 2000 EC₁₅₃, 5, 1, 0; 2000 ED₁₅₃, 17, 4, 35; 2000 EE₁₅₃, 17, 4, 34; 2000 EF₁₅₃, 5, 1, 0; 2000 EG₁₅₃, 5, 1, 0; 2000 EH₁₅₃, 4, 1, 0; 2000 EJ₁₅₃, 5, 1, 0; 2000 EK₁₅₃, 5, 1, 0; 2000 EL₁₅₃, 4, 1, 0; 2000 EM₁₅₃, 5, 1, 0; 2000 EN₁₅₃, 4, 1, 0; 2000 EO₁₅₃, 3, 1, 0; 2000 EP₁₅₃, 5, 1, 0; 2000 EQ₁₅₃, 5, 1, 0; 2000 ER₁₅₃, 9, 2, 25; 2000 ES₁₅₃, 5, 1, 0; 2000 ET₁₅₃, 22, 5, 55; 2000 EU₁₅₃, 4, 1, 0; 2000 EV₁₅₃, 42, 8, 39; 2000 EX₁₅₃, 23, 5, 57; 2000 EY₁₅₃, 14, 4, 57; 2000 EZ₁₅₃, 4, 1, 0; 2000 EA₁₅₄, 33, 7, 448; 2000 EB₁₅₄, 5, 1, 0; 2000 EC₁₅₄, 5, 1, 0; 2000 ED₁₅₄, 7, 2, 6; 2000 EE₁₅₄, 5, 1, 0; 2000 EF₁₅₄, 3, 1, 0; 2000 EG₁₅₄, 4, 1, 0; 2000 EH₁₅₄, 18, 4, 34; 2000 EJ₁₅₄, 13, 3, 30; 2000 EK₁₅₄, 18, 4, 30; 2000 EM₁₅₄, 3, 1, 0; 2000 EN₁₅₄, 28, 6, 32; 2000 EO₁₅₄, 28, 6, 31; 2000 EP₁₅₄, 30, 6, 33; 2000 EQ₁₅₄, 5, 1, 0; 2000 ER₁₅₄, 10, 2, 6; 2000 ES₁₅₄, 16, 4, 88; 2000 ET₁₅₄, 24, 6, 37; 2000 EU₁₅₄, 18, 4, 10; 2000 EV₁₅₄ *, 17, 4, 37; 2000 EW₁₅₄ *, 15, 4, 37; 2000 EX₁₅₄ *, 12, 3, 37; 2000 EY₁₅₄ *, 21, 5, 37; 2000 EZ₁₅₄, 3, 1, 0; 2000 EA₁₅₅ *, 4, 1, 0; 2000 EB₁₅₅ *, 4, 1, 0; 2000 EC₁₅₅ *, 10, 2, 29; 2000 ED₁₅₅ *, 5, 1, 0; 2000 EE₁₅₅ *, 5, 1, 0; 2000 EF₁₅₅ *, 5, 1, 0; 2000 EG₁₅₅ *, 5, 1, 0; 2000 EH₁₅₅ *, 5, 1, 0; 2000 EJ₁₅₅ *, 10, 2, 29; 2000 EK₁₅₅ *, 5, 1, 0; 2000 EL₁₅₅ *, 5, 1, 0; 2000 EM₁₅₅ *, 5, 1, 0; 2000 EN₁₅₅ *, 5, 1, 0; 2000 EO₁₅₅ *, 4, 1, 0; 2000 EP₁₅₅ *, 4, 1, 0; 2000 EQ₁₅₅ *, 4, 1, 0; 2000 ER₁₅₅ *, 4, 1, 0; 2000 ES₁₅₅ *, 4, 1, 0; 2000 ET₁₅₅ *, 4, 1, 0; 2000 EU₁₅₅ *, 4, 1, 0; 2000 EV₁₅₅ *, 4, 1, 0; 2000 EW₁₅₅ *, 3, 1, 0; 2000 EX₁₅₅ *, 4, 1, 0; 2000 EY₁₅₅ *, 4, 1, 0; 2000 EZ₁₅₅ *, 3, 1, 0; 2000 EA₁₅₆ *, 3, 1, 0; 2000 EB₁₅₆ *, 3, 1, 0; 2000 EC₁₅₆ *, 3, 1, 0; 2000 ED₁₅₆ *, 3, 1, 0; 2000 EE₁₅₆ *, 3, 1, 0; 2000 EF₁₅₆ *, 3, 1, 0; 2000 EG₁₅₆ *, 20, 5, 88; 2000 EH₁₅₆ *, 3, 1, 0; 2000 EI₁₅₆ *, 9, 2, 28; 2000 EJ₁₅₆ *, 9, 1, 0; 2000 EK₁₅₆ *, 4, 1, 0; 2000 EL₁₅₆ *, 3, 1, 0; 2000 EM₁₅₆ *, 10, 2, 5; 2000 EN₁₅₆ *, 10, 2, 5; 2000 EO₁₅₆ *, 10, 2, 5; 2000 EP₁₅₆ *, 13, 3, 10; 2000 EQ₁₅₆ *, 12, 3, 11; 2000 ER₁₅₆ *, 12, 3, 11; 2000 ES₁₅₆ *, 14, 3, 10; 2000 ET₁₅₆ *, 14, 3, 10; 2000 EU₁₅₆ *, 9, 2, 5; 2000 EV₁₅₆ *, 5, 1, 0; 2000 EW₁₅₆ *, 5, 1, 0; 2000 EX₁₅₆ *, 4, 1, 0; 2000 EY₁₅₆ *, 7, 2, 25; 2000 EZ₁₅₆ *, 4, 1, 0; 2000 EA₁₅₇, 3, 1, 0; 2000 EB₁₅₇, 3, 1, 0; 2000 EC₁₅₇, 4, 1, 0; 2000 ED₁₅₇, 4, 1, 0; 2000 EE₁₅₇, 23, 5, 482; 2000 EF₁₅₇, 3, 1, 0; 2000 EG₁₅₇, 3, 1, 0; 2000 EH₁₅₇, 15, 3, 26; 2000 EI₁₅₇, 4, 1, 0; 2000 EJ₁₅₇, 14, 3, 26; 2000 EK₁₅₇, 4, 1, 0; 2000 EL₁₅₇, 5, 1, 0; 2000 EM₁₅₇, 9, 2, 25; 2000 EN₁₅₇, 5, 1, 0; 2000 EO₁₅₇, 4, 1, 0; 2000 EP₁₅₇, 10, 2, 24; 2000 EQ₁₅₇, 9, 2, 24; 2000 ER₁₅₇, 3, 1, 0; 2000 ES₁₅₇, 3, 1, 0; 2000 ET₁₅₇, 3, 1, 0; 2000 EU₁₅₇, 23, 5, 482; 2000 EV₁₅₇, 3, 1, 0; 2000 EW₁₅₇, 3, 1, 0; 2000 EX₁₅₇, 15, 3, 26; 2000 EY₁₅₇, 4, 1, 0; 2000 EZ₁₅₇, 14, 3, 26; 2000 EA₁₅₈, 4, 1, 0; 2000 EB₁₅₈, 5, 1, 0; 2000 EC₁₅₈, 9, 2, 25; 2000 ED₁₅₈, 5, 1, 0; 2000 EE₁₅₈, 4, 1, 0; 2000 EF₁₅₈, 5, 1, 0; 2000 EG₁₅₈, 9, 2, 24; 2000 EH₁₅₈, 3, 1, 0; 2000 EJ₁₅₈, 3, 1, 0; 2000 EK₁₅₈, 19, 4, 28; 2000 EL₁₅₈, 5, 1, 0; 2000 EM₁₅₈, 5, 1, 0; 2000 EN₁₅₈, 5, 1, 0; 2000 EO₁₅₈, 4, 1, 0; 2000 EP₁₅₈, 3, 1, 0; 2000 EQ₁₅₈, 5, 1, 0; 2000 ER₁₅₈, 4, 1, 0; 2000 ES₁₅₈, 3, 1, 0; 2000 ET₁₅₈, 5, 1, 0; 2000 EU₁₅₈, 10, 2, 25; 2000 EV₁₅₈, 5, 1, 0; 2000 EW

2000 EU₁₆₂ *, 10, 2, 8; 2000 EV₁₆₂ *, 10, 2, 8; 2000 EW₁₆₂ *, 10, 2, 8; 2000 EX₁₆₂ *, 10, 2, 8; 2000 EY₁₆₂ *, 8, 2, 8; 2000 EZ₁₆₂ *, 10, 2, 8; 2000 EA₁₆₃ *, 10, 2, 8; 2000 EB₁₆₃ *, 10, 2, 8; 2000 EC₁₆₃ *, 9, 2, 8; 2000 ED₁₆₃ *, 8, 2, 8; 2000 EE₁₆₃ *, 10, 2, 8; 2000 EF₁₆₃ *, 10, 2, 8; 2000 EG₁₆₃ *, 8, 2, 8; 2000 EH₁₆₃ *, 14, 3, 33; 2000 EJ₁₆₃ *, 10, 2, 8; 2000 EK₁₆₃ *, 10, 2, 8; 2000 EL₁₆₃ *, 17, 4, 34; 2000 EM₁₆₃ *, 9, 2, 8; 2000 EN₁₆₃ *, 10, 2, 8; 2000 EO₁₆₃ *, 9, 2, 8; 2000 EP₁₆₃ *, 10, 2, 8; 2000 EQ₁₆₃ *, 9, 2, 8; 2000 ER₁₆₃ *, 7, 2, 8; 2000 ES₁₆₃ *, 9, 2, 8; 2000 ET₁₆₃ *, 10, 2, 8; 2000 EU₁₆₃ *, 10, 2, 8; 2000 EV₁₆₃ *, 10, 2, 8; 2000 EW₁₆₃ *, 10, 2, 8; 2000 EX₁₆₃ *, 28, 6, 479; 2000 EY₁₆₃ *, 10, 2, 8; 2000 EZ₁₆₃ *, 8, 2, 8; 2000 EA₁₆₄ *, 6, 2, 8; 2000 EB₁₆₄ *, 19, 4, 36; 2000 EC₁₆₄ *, 10, 2, 8; 2000 ED₁₆₄ *, 10, 2, 8; 2000 EE₁₆₄ *, 9, 2, 8; 2000 EF₁₆₄ *, 18, 4, 34; 2000 EG₁₆₄ *, 10, 2, 8; 2000 EH₁₆₄ *, 17, 4, 34; 2000 EJ₁₆₄ *, 8, 2, 8; 2000 EK₁₆₄ *, 25, 6, 479; 2000 EL₁₆₄ *, 10, 2, 8; 2000 EM₁₆₄ *, 10, 2, 8; 2000 EN₁₆₄ *, 18, 4, 34; 2000 EO₁₆₄ *, 9, 2, 8; 2000 EP₁₆₄ *, 22, 5, 34; 2000 EQ₁₆₄ *, 9, 2, 8; 2000 ER₁₆₄ *, 17, 4, 34; 2000 ES₁₆₄ *, 10, 2, 8; 2000 ET₁₆₄ *, 9, 2, 8; 2000 EU₁₆₄ *, 9, 2, 8; 2000 EV₁₆₄ *, 10, 2, 8; 2000 EW₁₆₄ *, 10, 2, 8; 2000 EX₁₆₄ *, 9, 2, 8; 2000 EY₁₆₄ *, 14, 3, 33; 2000 EZ₁₆₄ *, 16, 4, 34; 2000 EA₁₆₅ *, 17, 4, 34; 2000 EB₁₆₅ *, 19, 4, 34; 2000 EC₁₆₅ *, 22, 5, 34; 2000 ED₁₆₅ *, 17, 4, 34; 2000 EE₁₆₅ *, 9, 2, 8; 2000 EF₁₆₅ *, 10, 2, 8; 2000 EG₁₆₅ *, 10, 2, 8; 2000 EH₁₆₅ *, 10, 2, 8; 2000 EJ₁₆₅ *, 8, 2, 8; 2000 EK₁₆₅ *, 9, 2, 8; 2000 EL₁₆₅ *, 28, 6, 36; 2000 EM₁₆₅ *, 9, 2, 8; 2000 EN₁₆₅ *, 14, 3, 33; 2000 EO₁₆₅ *, 17, 4, 34; 2000 EP₁₆₅ *, 10, 2, 8; 2000 EQ₁₆₅ *, 10, 2, 8; 2000 ER₁₆₅ *, 23, 5, 34; 2000 ES₁₆₅ *, 16, 4, 34; 2000 ET₁₆₅ *, 33, 6, 450; 2000 EU₁₆₅ *, 7, 2, 8; 2000 EV₁₆₅ *, 7, 2, 8; 2000 EW₁₆₅ *, 9, 2, 8; 2000 EX₁₆₅ *, 9, 2, 8; 2000 EY₁₆₅ *, 9, 2, 8; 2000 EZ₁₆₅ *, 9, 2, 8; 2000 EA₁₆₆ *, 9, 2, 8; 2000 EB₁₆₆ *, 8, 2, 8; 2000 EC₁₆₆ *, 7, 2, 8; 2000 ED₁₆₆ *, 8, 2, 8; 2000 EE₁₆₆ *, 8, 2, 8; 2000 EF₁₆₆ *, 11, 2, 1; 2000 EG₁₆₆ *, 15, 2, 8; 2000 EH₁₆₆ *, 9, 2, 8; 2000 EJ₁₆₆ *, 9, 2, 8; 2000 EK₁₆₆ *, 8, 2, 8; 2000 EL₁₆₆ *, 8, 2, 8; 2000 EM₁₆₆ *, 9, 2, 8; 2000 EN₁₆₆ *, 17, 4, 37; 2000 EP₁₆₆ *, 9, 2, 8; 2000 EQ₁₆₆ *, 6, 2, 8; 2000 ER₁₆₆ *, 8, 2, 8; 2000 ES₁₆₆ *, 7, 2, 8; 2000 ET₁₆₆ *, 8, 2, 8; 2000 EU₁₆₆ *, 7, 2, 8; 2000 EV₁₆₆ *, 7, 2, 8; 2000 EW₁₆₆ *, 8, 2, 8; 2000 EX₁₆₆ *, 8, 2, 8; 2000 EY₁₆₆ *, 10, 2, 8; 2000 EZ₁₆₆ *, 9, 2, 8; 2000 EA₁₆₇ *, 9, 2, 8; 2000 EB₁₆₇ *, 10, 2, 8; 2000 EC₁₆₇ *, 10, 2, 8; 2000 ED₁₆₇ *, 10, 2, 8; 2000 EE₁₆₇ *, 9, 2, 8; 2000 EF₁₆₇ *, 10, 2, 8; 2000 EG₁₆₇ *, 9, 2, 8; 2000 EH₁₆₇ *, 10, 2, 8; 2000 EJ₁₆₇ *, 10, 2, 8; 2000 EK₁₆₇ *, 9, 2, 8; 2000 EL₁₆₇ *, 9, 2, 8; 2000 EM₁₆₇ *, 10, 2, 8; 2000 EN₁₆₇ *, 14, 3, 38; 2000 EO₁₆₇ *, 9, 2, 8; 2000 EP₁₆₇ *, 9, 2, 8; 2000 EQ₁₆₇ *, 10, 2, 8; 2000 ER₁₆₇ *, 10, 2, 8; 2000 ES₁₆₇ *, 10, 2, 8; 2000 ET₁₆₇ *, 10, 2, 8; 2000 EU₁₆₇ *, 10, 2, 8; 2000 EV₁₆₇ *, 8, 2, 8; 2000 EW₁₆₇ *, 8, 2, 8; 2000 EX₁₆₇ *, 10, 2, 8; 2000 EY₁₆₇ *, 9, 2, 8; 2000 EZ₁₆₇ *, 9, 2, 8; 2000 EA₁₆₈ *, 10, 2, 8; 2000 EB₁₆₈ *, 8, 2, 8; 2000 EC₁₆₈ *, 10, 2, 8; 2000 ED₁₆₈ *, 7, 2, 8; 2000 EE₁₆₈ *, 9, 2, 8; 2000 EF₁₆₈ *, 9, 2, 8; 2000 EG₁₆₈ *, 9, 2, 8; 2000 EH₁₆₈ *, 10, 2, 8; 2000 EJ₁₆₈ *, 9, 2, 8; 2000 EK₁₆₈ *, 8, 2, 8; 2000 EL₁₆₈ *, 10, 2, 8; 2000 EM₁₆₈ *, 10, 2, 8; 2000 EN₁₆₈ *, 9, 2, 8; 2000 EO₁₆₈ *, 12, 2, 8; 2000 EP₁₆₈ *, 8, 2, 8; 2000 EQ₁₆₈ *, 10, 2, 8; 2000 ER₁₆₈ *, 9, 2, 8; 2000 ES₁₆₈ *, 9, 2, 8; 2000 ET₁₆₈ *, 10, 2, 8; 2000 EU₁₆₈ *, 10, 2, 8; 2000 EV₁₆₈ *, 10, 2, 8; 2000 EW₁₆₈ *, 22, 5, 93; 2000 EX₁₆₈ *, 9, 2, 8; 2000 EY₁₆₈ *, 9, 2, 8; 2000 EZ₁₆₈ *, 10, 2, 8; 2000 EA₁₆₉ *, 10, 2, 8; 2000 EB₁₆₉ *, 10, 2, 8; 2000 EC₁₆₉ *, 10, 2, 8; 2000 ED₁₆₉ *, 10, 2, 8; 2000 EE₁₆₉ *, 8, 2, 8; 2000 EF₁₆₉ *, 8, 2, 8; 2000 EG₁₆₉ *, 9, 2, 8; 2000 EH₁₆₉ *, 9, 2, 8; 2000 EJ₁₆₉ *, 8, 2, 8; 2000 EK₁₆₉ *, 7, 2, 8; 2000 EL₁₆₉ *, 7, 2, 8; 2000 EM₁₆₉ *, 10, 2, 8; 2000 EN₁₆₉ *, 10, 2, 8; 2000 EO₁₆₉ *, 10, 2, 8; 2000 EP₁₆₉ *, 8, 2, 8; 2000 EQ₁₆₉ *, 8, 2, 8; 2000 ER₁₆₉ *, 8, 2, 8; 2000 ES₁₆₉ *, 25, 5, 65; 2000 ET₁₆₉ *, 10, 2, 8; 2000 EU₁₆₉ *, 17, 4, 35; 2000 EV₁₆₉ *, 11, 2, 7; 2000 EW₁₆₉ *, 10, 2, 4; 2000 EX₁₆₉ *, 9, 2, 7; 2000 EY₁₆₉ *, 10, 2, 7; 2000 EZ₁₆₉ *, 10, 2, 7; 2000 EA₁₇₀ *, 9, 2, 7; 2000 EB₁₇₀ *, 10, 2, 7; 2000 EC₁₇₀ *, 10, 2, 7; 2000 ED₁₇₀ *, 9, 2, 7; 2000 EE₁₇₀ *, 10, 2, 7; 2000 EF₁₇₀ *, 10, 2, 7; 2000 EG₁₇₀ *, 9, 2, 7; 2000 EH₁₇₀ *, 9, 2, 7; 2000 EJ₁₇₀ *, 10, 2, 7; 2000 EK₁₇₀ *, 9, 2, 7; 2000 EL₁₇₀ *, 10, 2, 7; 2000 EM₁₇₀ *, 9, 2, 7; 2000 EN₁₇₀ *, 9, 2, 7; 2000 EO₁₇₀ *, 9, 2, 7; 2000 EP₁₇₀ *, 9, 2, 4; 2000 EQ₁₇₀ *, 19, 4, 34; 2000 ER₁₇₀ *, 29, 7, 92; 2000 ES₁₇₀ *, 9, 2, 7; 2000 ET₁₇₀ *, 10, 2, 7; 2000 EU₁₇₀ *, 20, 4, 34; 2000 EV₁₇₀ *, 16, 4, 34; 2000 EW₁₇₀ *, 10, 2, 7; 2000 EX₁₇₀ *, 10, 2, 7; 2000 EY₁₇₀ *, 22, 5, 33; 2000 EZ₁₇₀ *, 33, 7, 64; 2000 EA₁₇₁ *, 9, 2, 7; 2000 EB₁₇₁ *, 7, 2, 7; 2000 EC₁₇₁ *, 18, 4, 34; 2000 ED₁₇₁ *, 10, 2, 7; 2000 EJ₁₇₁ *, 19, 4, 34; 2000 EK₁₇₁ *, 9, 2, 7; 2000 EL₁₇₁ *, 12, 3, 34; 2000 EM₁₇₁ *, 9, 2, 7; 2000 EN₁₇₁ *, 10, 2, 7; 2000 EO₁₇₁ *, 10, 2, 7; 2000 EP₁₇₁ *, 10, 2, 7; 2000 EQ₁₇₁ *, 7, 2, 7; 2000 ER₁₇₁ *, 9, 2, 7; 2000 ES₁₇₁ *, 9, 2, 7; 2000 ET₁₇₁ *, 9, 2, 7; 2000 EU₁₇₁ *, 7, 2, 7; 2000 EV₁₇₁ *, 19, 4, 34; 2000 EW₁₇₁ *, 7, 2, 7; 2000 EX₁₇₁ *, 7, 2, 7; 2000 EY₁₇₁ *, 9, 2, 4; 2000 EZ₁₇₁ *, 26, 6, 68; 2000 EA₁₇₂ *, 24, 5, 60; 2000 EB₁₇₂ *, 38, 7, 30; 2000 EC₁₇₂ *, 6, 2, 1; 2000 ED₁₇₂ *, 12, 2, 2; 2000 EE₁₇₂ *, 9, 2, 1; 2000 EF₁₇₂ *, 14, 3, 26; 2000 EG₁₇₂ *, 21, 5, 1065; 2000 EH₁₇₂ *, 9, 2, 1; 2000 EJ₁₇₂ *, 32, 6, 31; 2000 EK₁₇₂ *, 15, 3, 2; 2000 EL₁₇₂ *, 16, 4, 29; 2000 EM₁₇₂ *, 29, 7, 96; 2000 EN₁₇₂ *, 15, 3, 9; 2000 FO₁ *, 4, 1, 0; 2000 FP₁ *, 8, 2, 1; 2000 FR₁ *, 17, 4, 4; 2000 FS₁ *, 8, 2, 1; 2000 FT₁ *, 17, 4, 8; 2000 FU₁ *, 19, 5, 88; 2000 FV₁ *, 10, 2, 1; 2000 FX₁ *, 27, 4, 27; 2000 FY₁ *, 5, 1, 0; 2000 FZ₁ *, 4, 1, 0; 2000 FA₁ *, 5, 1, 0; 2000 FB₁ *, 13, 3, 10; 2000 FC₁ *, 20, 4, 10; 2000 FD₁ *, 9, 2, 1; 2000 FE₁ *, 13, 3, 9; 2000 FF₁ *, 19, 4, 7; 2000 FG₁ *, 6, 2, 1; 2000 FH₁ *, 21, 4, 13; 2000 FI₁ *, 9, 2, 1; 2000 FK₁ *, 7, 2, 1; 2000 FL₁ *, 8, 2, 1; 2000 FM₁ *, 3, 1, 0; 2000 FN₁ *, 12, 3, 27; 2000 FO₁ *, 14, 3, 27; 2000 FT₁ *, 5, 1, 0; 2000 FX₁ *, 3, 1, 0; 2000 FY₁ *, 13, 3, 2; 2000 FA₂ *, 36, 6, 32; 2000 FC₂ *, 4, 1, 0; 2000 FD₂ *, 22, 4, 3; 2000 FE₂ *, 19, 4, 5; 2000 FF₂ *, 13, 3, 2; 2000 FG₂ *, 10, 2, 1; 2000 FH₂ *, 4,

1, 0; 2000 FK₂ *, 10, 2, 3; 2000 FM₂ *, 10, 2, 1; 2000 FN₂ *, 14, 3, 2; 2000 FO₂ *, 12, 3, 2; 2000 FQ₂ *, 9, 2, 1; 2000 FR₂ *, 15, 4, 13; 2000 FS₂ *, 8, 2, 1; 2000 FT₂ *, 17, 4, 149; 2000 FU₂ *, 8, 2, 1; 2000 FV₂ *, 13, 3, 2; 2000 FW₂ *, 14, 3, 11; 2000 FX₂ *, 8, 2, 1; 2000 FY₂ *, 22, 5, 28; 2000 FA₃ *, 16, 4, 32; 2000 FB₃ *, 21, 5, 25; 2000 FC₃ *, 8, 2, 2; 2000 FD₃ *, 25, 6, 27; 2000 FE₃ *, 25, 6, 27; 2000 FF₃ *, 22, 5, 27; 2000 FG₃ *, 17, 5, 22; 2000 FH₃ *, 25, 6, 24; 2000 FI₃ *, 24, 5, 24; 2000 FK₃ *, 35, 8, 92; 2000 FL₃ *, 27, 6, 34; 2000 FM₃ *, 25, 6, 34; 2000 FN₃ *, 20, 5, 27; 2000 FO₃ *, 52, 12, 41; 2000 FP₃ *, 24, 6, 27; 2000 FQ₃ *, 28, 7, 91; 2000 FR₃ *, 22, 5, 27; 2000 FS₃ *, 28, 7, 64; 2000 FT₃ *, 16, 4, 24; 2000 FU₃ *, 22, 5, 27; 2000 FV₃ *, 42, 9, 97; 2000 FW₃ *, 34, 7, 39; 2000 FX₃ *, 5, 1, 0; 2000 FY₃ *, 7, 2, 1; 2000 FZ₃ *, 5, 1, 0; 2000 FA₄ *, 4, 1, 0; 2000 FB₄ *, 4, 1, 0; 2000 FC₄ *, 5, 1, 0; 2000 FD₄ *, 5, 1, 0; 2000 FE₄ *, 10, 2, 1; 2000 FI₄ *, 8, 2, 1; 2000 FO₄ *, 18, 4, 5; 2000 FX₄ *, 10, 2, 1; 2000 FY₄ *, 4, 1, 0; 2000 FZ₄ *, 4, 1, 0; 2000 FA₅ *, 9, 2, 1; 2000 FB₅ *, 3, 1, 0; 2000 FC₅ *, 9, 2, 1; 2000 FD₅ *, 11, 3, 9; 2000 FE₅ *, 13, 3, 8; 2000 FF₅ *, 13, 3, 8; 2000 FG₅ *, 12, 3, 32; 2000 FH₅ *, 14, 4, 65; 2000 FI₅ *, 26, 6, 517; 2000 FO₅ *, 14, 3, 2; 2000 FP₅ *, 5, 1, 0; 2000 FR₅ *, 8, 2, 1; 2000 FT₅ *, 5, 1, 0; 2000 FU₅ *, 13, 2, 1; 2000 FV₅ *, 18, 3, 2; 2000 FW₅ *, 5, 1, 0; 2000 FX₅ *, 14, 3, 28; 2000 FZ₅ *, 9, 2, 1; 2000 FA₆ *, 4, 1, 0; 2000 FB₆ *, 13, 3, 2; 2000 FC₆ *, 10, 2, 1; 2000 FD₆ *, 8, 2, 1; 2000 FE₆ *, 8, 2, 1; 2000 FI₆ *, 4, 1, 0; 2000 FK₆ *, 33, 5, 5; 2000 FL₆ *, 33, 4, 3; 2000 FM₆ *, 4, 1, 0; 2000 FN₆ *, 37, 5, 5; 2000 FO₆ *, 9, 2, 1; 2000 FR₆ *, 10, 2, 1; 2000 FS₆ *, 18, 4, 3; 2000 FT₆ *, 5, 1, 0; 2000 FZ₆ *, 10, 2, 1; 2000 FA₇ *, 4, 1, 0; 2000 FB₇ *, 4, 1, 0; 2000 FC₇ *, 5, 1, 0; 2000 FD₇ *, 9, 2, 1; 2000 FE₇ *, 13, 3, 16; 2000 FI₇ *, 16, 4, 67; 2000 FR₇ *, 12, 3, 8; 2000 FS₇ *, 16, 5, 24; 2000 FT₇ *, 33, 7, 12; 2000 FU₇ *, 8, 2, 3; 2000 FV₇ *, 9, 2, 1; 2000 FW₇ *, 23, 5, 16; 2000 FX₇ *, 19, 4, 10; 2000 FY₇ *, 5, 1, 0; 2000 FZ₇ *, 9, 2, 2; 2000 FA₈ *, 20, 4, 5; 2000 FB₈ *, 6, 2, 3; 2000 FC₈ *, 14, 3, 2; 2000 FD₈ *, 6, 2, 1; 2000 FE₈ *, 14, 3, 7; 2000 FI₈ *, 22, 4, 5; 2000 FO₈ *, 10, 2, 1; 2000 FP₈ *, 5, 1, 0; 2000 FR₈ *, 10, 2, 1; 2000 FS₈ *, 5, 1, 0; 2000 FT₈ *, 5, 1, 0; 2000 FU₈ *, 5, 1, 0; 2000 FV₈ *, 15, 2, 1; 2000 FW₈ *, 4, 1, 0; 2000 FX₈ *, 5, 1, 0; 2000 FY₈ *, 10, 2, 1; 2000 FZ₈ *, 10, 2, 1; 2000 FA₉ *, 8, 2, 1; 2000 FB₉ *, 10, 2, 1; 2000 FC₉ *, 10, 2, 1; 2000 FD₉ *, 4, 1, 0; 2000 FE₉ *, 9, 2, 1; 2000 FI₉ *, 9, 2, 1; 2000 FO₉ *, 5, 1, 0; 2000 FP₉ *, 14, 3, 13; 2000 FR₉ *, 6, 2, 1; 2000 FS₉ *, 10, 2, 1; 2000 FT₉ *, 3, 1, 0; 2000 FV₉ *, 10, 2, 1; 2000 FW₉ *, 13, 2, 1; 2000 FX₉ *, 5, 1, 0; 2000 FY₉ *, 13, 2, 1; 2000 FZ₉ *, 16, 3, 27; 2000 FA₁₀ *, 13, 2, 1; 2000 FB₁₀ *, 12, 2, 1; 2000 FC₁₀ *, 10, 2, 1; 2000 FD₁₀ *, 25, 4, 5; 2000 FE₁₀ *, 5, 1, 0; 2000 FG₁₀ *, 10, 2, 9; 2000 FH₁₀ *, 4, 1, 0; 2000 FI₁₀ *, 8, 2, 1; 2000 FL₁₀ *, 9, 2, 5; 2000 FM₁₀ *, 5, 1, 0; 2000 FN₁₀ *, 14, 3, 8; 2000 FO₁₀ *, 4, 1, 0; 2000 FQ₁₀ *, 35, 7, 91; 2000 FR₁₀ *, 9, 2, 2; 2000 FS₁₀ *, 10, 2, 2; 2000 FT₁₀ *, 11, 3, 3; 2000 FU₁₀ *, 9, 2, 1; 2000 FV₁₀ *, 4, 1, 0; 2000 FW₁₀ *, 13, 2, 1; 2000 FX₁₀ *, 6, 2, 7; 2000 FZ₁₀ *, 41, 8, 35; 2000 FA₁₁ *, 9, 2, 6; 2000 FB₁₁ *, 20, 4, 5; 2000 FC₁₁ *, 35, 6, 114; 2000 FD₁₁ *, 7, 2, 5; 2000 FE₁₁ *, 16, 4, 29; 2000 FI₁₁ *, 7, 2, 5; 2000 FG₁₁ *, 7, 2, 5; 2000 FH₁₁ *, 7, 2, 5; 2000 FI₁₁ *, 20, 5, 62; 2000 FK₁₁ *, 16, 4, 29; 2000 FL₁₁ *, 21, 5, 62; 2000 FM₁₁ *, 7, 2, 5; 2000 FN₁₁ *, 7, 2, 5; 2000 FO₁₁ *, 7, 2, 5; 2000 FP₁₁ *, 7, 2, 5; 2000 FQ₁₁ *, 7, 2, 5; 2000 FR₁₁ *, 7, 2, 5; 2000 FS₁₁ *, 7, 2, 5; 2000 FT₁₁ *, 7, 2, 5; 2000 FU₁₁ *, 16, 4, 29; 2000 FV₁₁ *, 17, 4, 29; 2000 FW₁₁ *, 18, 4, 29; 2000 FX₁₁ *, 17, 4, 29; 2000 FY₁₁ *, 11, 2, 5; 2000 FZ₁₁ *, 8, 2, 5; 2000 FA₁₂ *, 8, 2, 6; 2000 FB₁₂ *, 21, 5, 59; 2000 FC₁₂ *, 8, 2, 5; 2000 FD₁₂ *, 7, 2, 5; 2000 FE₁₂ *, 7, 2, 5; 2000 FI₁₂ *, 7, 2, 5; 2000 FG₁₂ *, 23, 6, 87; 2000 FH₁₂ *, 16, 4, 29; 2000 FI₁₂ *, 21, 5, 62; 2000 FK₁₂ *, 22, 5, 59; 2000 FL₁₂ *, 28, 7, 93; 2000 FM₁₂ *, 8, 2, 5; 2000 FN₁₂ *, 8, 2, 5; 2000 FO₁₂ *, 12, 3, 11; 2000 FP₁₂ *, 6, 2, 5; 2000 FQ₁₂ *, 17, 3, 11; 2000 FR₁₂ *, 8, 2, 5; 2000 FS₁₂ *, 27, 6, 65; 2000 FT₁₂ *, 26, 6, 65; 2000 FU₁₂ *, 13, 4, 27; 2000 FV₁₂ *, 33, 7, 70; 2000 FW₁₂ *, 36, 8, 30; 2000 FX₁₂ *, 16, 4, 35; 2000 FY₁₂ *, 13, 3, 10; 2000 FZ₁₂ *, 10, 2, 4; 2000 FA₁₃ *, 8, 2, 4; 2000 FB₁₃ *, 20, 4, 24; 2000 FC₁₃ *, 18, 4, 35; 2000 FD₁₃ *, 9, 2, 4; 2000 FE₁₃ *, 9, 2, 4; 2000 FI₁₃ *, 9, 2, 4; 2000 FG₁₃ *, 19, 4, 24; 2000 FH₁₃ *, 17, 4, 10; 2000 FI₁₃ *, 11, 3, 5; 2000 FK₁₃ *, 23, 5, 34; 2000 FL₁₃ *, 13, 3, 10; 2000 FM₁₃ *, 18, 4, 35; 2000 FN₁₃ *, 7, 2, 4; 2000 FO₁₃ *, 18, 4, 24; 2000 FP₁₃ *, 18, 4, 24; 2000

2000 APR. 18

M.P.C. 39775

2000 FM₁₇ *, 11, 3, 10; 2000 FN₁₇ *, 15, 3, 10; 2000 FO₁₇ *, 9, 2, 5; 2000 FP₁₇ *, 22, 5, 887;
2000 FQ₁₇ *, 15, 3, 10; 2000 FR₁₇ *, 17, 4, 27; 2000 FS₁₇ *, 15, 3, 10; 2000 FT₁₇ *, 19, 4,
27; 2000 FU₁₇ *, 32, 6, 92; 2000 FV₁₇ *, 15, 3, 10; 2000 FW₁₇ *, 9, 2, 5; 2000 FX₁₇ *, 23,
5, 32; 2000 FY₁₇ *, 10, 2, 5; 2000 FZ₁₇ *, 17, 4, 27; 2000 FA₁₈ *, 18, 4, 27; 2000 FB₁₈ *, 9,
2, 5; 2000 FC₁₈ *, 10, 2, 5; 2000 FD₁₈ *, 10, 2, 5; 2000 FE₁₈ *, 11, 3, 10; 2000 FF₁₈ *, 18,
4, 27; 2000 FG₁₈ *, 9, 2, 5; 2000 FH₁₈ *, 8, 2, 5; 2000 FI₁₈ *, 12, 3, 22; 2000 FJ₁₈ *, 15, 3,
10; 2000 FK₁₈ *, 17, 4, 27; 2000 FL₁₈ *, 22, 5, 32; 2000 FN₁₈ *, 12, 3, 10; 2000 FO₁₈ *, 9,
2, 5; 2000 FP₁₈ *, 15, 3, 10; 2000 FQ₁₈ *, 10, 2, 5; 2000 FR₁₈ *, 9, 2, 5; 2000 FS₁₈ *, 14, 3,
10; 2000 FT₁₈ *, 12, 3, 10; 2000 FU₁₈ *, 9, 2, 5; 2000 FV₁₈ *, 14, 3, 10; 2000 FW₁₈ *, 14, 3,
10; 2000 FX₁₈ *, 10, 2, 5; 2000 FY₁₈ *, 8, 2, 5; 2000 FZ₁₈ *, 15, 3, 10; 2000 FA₁₉ *, 10, 2, 5;
2000 FB₁₉ *, 15, 3, 10; 2000 FC₁₉ *, 8, 2, 5; 2000 FD₁₉ *, 6, 2, 5; 2000 FE₁₉ *, 9, 2, 5; 2000 FF₁₉ *,
18, 4, 15; 2000 FG₁₉ *, 14, 2, 5; 2000 FH₁₉ *, 10, 2, 5; 2000 FI₁₉ *, 13, 3, 10; 2000 FJ₁₉ *,
25, 5, 15; 2000 FK₁₉ *, 8, 2, 5; 2000 FL₁₉ *, 14, 3, 10; 2000 FM₁₉ *, 7, 2, 5; 2000 FN₁₉ *, 9, 2,
2, 5; 2000 FO₁₉ *, 9, 2, 5; 2000 FP₁₉ *, 16, 4, 27; 2000 FQ₁₉ *, 16, 4, 27; 2000 FR₁₉ *, 8, 2, 5; 2000 FS₁₉ *, 9, 2, 5;
2000 FT₁₉ *, 18, 4, 27; 2000 FU₁₉ *, 14, 3, 10; 2000 FV₁₉ *, 16, 4, 27; 2000 FW₁₉ *, 13, 4,
29; 2000 FX₁₉ *, 18, 4, 27; 2000 FY₁₉ *, 14, 3, 10; 2000 FZ₁₉ *, 13, 3, 10; 2000 FA₂₀ *, 13,
3, 10; 2000 FB₂₀ *, 7, 2, 5; 2000 FC₂₀ *, 9, 2, 5; 2000 FD₂₀ *, 22, 5, 62; 2000 FE₂₀ *, 16, 4,
27; 2000 FF₂₀ *, 8, 2, 5; 2000 FG₂₀ *, 8, 2, 5; 2000 FH₂₀ *, 30, 7, 512; 2000 FI₂₀ *, 17, 4,
27; 2000 FJ₂₀ *, 18, 4, 27; 2000 FK₂₀ *, 18, 4, 10; 2000 FL₂₀ *, 6, 2, 5; 2000 FM₂₀ *, 26, 5,
91; 2000 FO₂₀ *, 25, 6, 62; 2000 FP₂₀ *, 18, 4, 27; 2000 FQ₂₀ *, 9, 2, 5; 2000 FR₂₀ *, 22, 5,
62; 2000 FS₂₀ *, 14, 3, 10; 2000 FT₂₀ *, 8, 2, 5; 2000 FU₂₀ *, 13, 3, 10; 2000 FV₂₀ *, 18, 4,
27; 2000 FW₂₀ *, 18, 4, 27; 2000 FX₂₀ *, 11, 3, 22; 2000 FY₂₀ *, 7, 2, 5; 2000 FZ₂₀ *, 16, 4,
27; 2000 FA₂₁ *, 21, 5, 32; 2000 FB₂₁ *, 18, 4, 27; 2000 FC₂₁ *, 13, 3, 10; 2000 FD₂₁ *, 7,
2, 5; 2000 FE₂₁ *, 14, 3, 10; 2000 FF₂₁ *, 8, 2, 5; 2000 FG₂₁ *, 24, 5, 32; 2000 FH₂₁ *, 18,
4, 15; 2000 FI₂₁ *, 18, 4, 27; 2000 FJ₂₁ *, 13, 4, 27; 2000 FK₂₁ *, 7, 2, 5; 2000 FM₂₁ *, 14,
4, 27; 2000 FN₂₁ *, 8, 2, 5; 2000 FO₂₁ *, 16, 4, 27; 2000 FP₂₁ *, 9, 2, 5; 2000 FQ₂₁ *, 9, 2,
5; 2000 FR₂₁ *, 18, 4, 27; 2000 FS₂₁ *, 7, 2, 5; 2000 FT₂₁ *, 14, 3, 10; 2000 FU₂₁ *, 14, 4,
27; 2000 FV₂₁ *, 15, 4, 15; 2000 FW₂₁ *, 7, 2, 5; 2000 FX₂₁ *, 8, 2, 5; 2000 FY₂₁ *, 16, 4,
15; 2000 FZ₂₁ *, 13, 3, 10; 2000 FA₂₂ *, 13, 3, 10; 2000 FB₂₂ *, 16, 4, 27; 2000 FC₂₂ *, 10,
3, 10; 2000 FD₂₂ *, 11, 3, 10; 2000 FE₂₂ *, 8, 2, 5; 2000 FG₂₂ *, 15, 4, 27; 2000 FH₂₂ *, 8,
2, 5; 2000 FI₂₂ *, 10, 2, 5; 2000 FJ₂₂ *, 15, 3, 10; 2000 FK₂₂ *, 30, 6, 97; 2000 FL₂₂ *, 14,
3, 10; 2000 FM₂₂ *, 8, 2, 5; 2000 FN₂₂ *, 8, 2, 5; 2000 FO₂₂ *, 14, 3, 10; 2000 FP₂₂ *, 12, 3,
10; 2000 FQ₂₂ *, 19, 4, 10; 2000 FR₂₂ *, 10, 2, 5; 2000 FS₂₂ *, 9, 2, 5; 2000 FT₂₂ *, 34, 6,
12; 2000 FU₂₂ *, 11, 3, 12; 2000 FV₂₂ *, 23, 5, 24; 2000 FW₂₂ *, 8, 2, 5; 2000 FX₂₂ *, 8, 2,
5; 2000 FY₂₂ *, 14, 3, 10; 2000 FZ₂₂ *, 15, 3, 10; 2000 FA₂₃ *, 19, 4, 15; 2000 FB₂₃ *, 9, 2,
5; 2000 FC₂₃ *, 8, 2, 5; 2000 FD₂₃ *, 11, 3, 10; 2000 FE₂₃ *, 23, 5, 447; 2000 FF₂₃ *, 16, 4,
15; 2000 FG₂₃ *, 18, 4, 15; 2000 FH₂₃ *, 10, 3, 10; 2000 FI₂₃ *, 14, 3, 10; 2000 FJ₂₃ *, 14,
3, 10; 2000 FK₂₃ *, 15, 3, 10; 2000 FL₂₃ *, 23, 5, 30; 2000 FM₂₃ *, 8, 2, 5; 2000 FN₂₃ *, 9, 2,
5; 2000 FO₂₃ *, 15, 3, 10; 2000 FP₂₃ *, 19, 4, 16; 2000 FQ₂₃ *, 9, 2, 5; 2000 FR₂₃ *, 9, 2, 5;
2000 FT₂₃ *, 12, 3, 10; 2000 FU₂₃ *, 14, 3, 10; 2000 FV₂₃ *, 19, 4, 15; 2000 FW₂₃ *, 18, 4,
15; 2000 FX₂₃ *, 15, 3, 7; 2000 FY₂₃ *, 24, 5, 67; 2000 FZ₂₃ *, 19, 5, 16; 2000 FA₂₄ *, 9, 2, 5;
2000 FB₂₄ *, 23, 5, 30; 2000 FC₂₄ *, 14, 3, 10; 2000 FD₂₄ *, 10, 2, 5; 2000 FE₂₄ *, 18, 4, 10;
2000 FF₂₄ *, 18, 4, 15; 2000 FG₂₄ *, 16, 4, 15; 2000 FH₂₄ *, 15, 3, 10; 2000 FI₂₄ *, 8, 2, 5;
2000 FJ₂₄ *, 8, 2, 5; 2000 FK₂₄ *, 19, 4, 16; 2000 FL₂₄ *, 14, 3, 10; 2000 FM₂₄ *, 12, 3, 10;
2000 FO₂₄ *, 8, 2, 5; 2000 FP₂₄ *, 9, 2, 5; 2000 FQ₂₄ *, 8, 2, 5; 2000 FR₂₄ *, 7, 2, 5; 2000 FS₂₄ *,
13, 3, 10; 2000 FT₂₄ *, 20, 4, 24; 2000 FU₂₄ *, 8, 2, 5; 2000 FV₂₄ *, 9, 2, 5; 2000 FW₂₄ *, 17,
4, 64; 2000 FX₂₄ *, 18, 4, 15; 2000 FY₂₄ *, 8, 2, 5; 2000 FZ₂₄ *, 7, 2, 5; 2000 FA₂₅ *, 6, 2, 5;
2000 FB₂₅ *, 10, 3, 10; 2000 FC₂₅ *, 7, 2, 7; 2000 FD₂₅ *, 18, 4, 15; 2000 FE₂₅ *, 23, 5, 36;
2000 FF₂₅ *, 8, 2, 7; 2000 FG₂₅ *, 17, 4, 29; 2000 FH₂₅ *, 36, 7, 59; 2000 FI₂₅ *, 3, 1, 0; 2000 FJ₂₅ *,
26, 6, 31; 2000 FK₂₅ *, 20, 4, 12; 2000 FL₂₅ *, 30, 6, 36; 2000 FM₂₅ *, 35, 5, 33; 2000 FN₂₅ *, 37, 8,
444; 2000 FO₂₅ *, 23, 5, 33; 2000 FQ₂₅ *, 61, 10, 869; 2000 FR₂₅ *, 40, 7, 36; 2000 FS₂₅ *, 30, 6, 476;
2000 FT₂₅ *, 6, 1, 0; 2000 FU₂₅ *, 8, 2, 4; 2000 FV₂₅ *, 13, 3, 10; 2000 FW₂₅ *, 29, 5, 12; 2000 FX₂₅ *,
18, 4, 31; 2000 FY₂₅ *, 22, 5, 33; 2000 FZ₂₅ *, 29, 5, 33; 2000 FA₂₆ *, 19, 4, 12; 2000 FB₂₆ *, 24,
5, 33; 2000 FC₂₆ *, 20, 4, 12; 2000 FD₂₆ *, 20, 4, 12; 2000 FE₂₆ *, 24, 5, 33; 2000 FF₂₆ *, 30, 6, 36;
2000 FG₂₆ *, 23, 4, 33; 2000 FH₂₆ *, 28, 5, 31; 2000 FI₂₆ *, 25, 5, 33; 2000 FJ₂₆ *, 14, 3, 12; 2000 FM₂₆ *,
25, 5, 33; 2000 FO₂₆ *, 25, 4, 12; 2000 FP₂₆ *, 8, 2, 2; 2000 FQ₂₆ *, 24, 5, 33; 2000 FR₂₆ *, 15, 3, 2;
2000 FS₂₆ *, 25, 5, 33; 2000 FT₂₆ *, 23, 5, 30; 2000 FU₂₆ *, 23, 5, 29; 2000 FV₂₆ *, 8, 2, 29; 2000 FW₂₆ *,
8, 2, 1; 2000 FX₂₆ *, 35, 7, 33; 2000 FY₂₆ *, 28, 6, 36; 2000 FZ₂₆ *, 19, 4, 3; 2000 FA₂₇ *, 19, 3, 5;
2000 FB₂₇ *, 20, 4, 12; 2000 FC₂₇ *, 9, 2, 1; 2000 FD₂₇ *, 14, 3, 5; 2000 FE₂₇ *, 23, 5, 12; 2000 FF₂₇ *,
10, 2, 1; 2000 FG₂₇ *, 26, 6, 31; 2000 FH₂₇ *, 14, 3, 2; 2000 FI₂₇ *, 9, 2, 1; 2000 FJ₂₇ *, 15, 3, 5;
2000 FK₂₇ *, 10, 2, 1; 2000 FL₂₇ *, 9, 2, 1; 2000 FM₂₇ *, 5, 1, 0; 2000 FN₂₇ *, 16, 4, 5; 2000 FO₂₇ *, 14, 3, 2; 2000 FP₂₇ *,
23, 5, 29; 2000 FQ₂₇ *, 24, 5, 5; 2000 FR₂₇ *, 8, 2, 1; 2000 FS₂₇ *, 10, 2, 1; 2000 FT₂₇ *, 10, 2, 1;
2000 FU₂₇ *, 14, 4, 5; 2000 FV₂₇ *, 8, 2, 1; 2000 FW₂₇ *, 3, 1, 0; 2000 FX₂₇ *, 11, 3, 31; 2000 FY₂₇ *,
17, 4, 29; 2000 FZ₂₇ *, 18, 4, 3; 2000 FA₂₈ *, 24, 5, 29; 2000 FC₂₈ *, 27, 6, 31; 2000 FE₂₈ *, 15, 3, 2;
2000 FF₂₈ *, 8, 2, 1; 2000 FG₂₈ *, 4, 1, 0; 2000 FH₂₈ *, 20, 4, 4; 2000 FI₂₈ *, 29, 6, 480; 2000 FJ₂₈ *,
26, 6, 68; 2000 FK₂₈ *, 13, 3, 3; 2000 FL₂₈ *, 15, 3, 3; 2000 FM₂₈ *, 17, 4, 11; 2000 FN₂₈ *, 20, 5, 32;
2000 FO₂₈ *, 15, 3, 3; 2000 FU₂₈ *, 14, 3, 3; 2000 FV₂₈ *, 4, 1, 0; 2000 FW₂₈ *, 9, 2, 1; 2000 FX₂₈ *,
5, 1, 0; 2000 FY₂₈ *, 4, 1, 0; 2000 FZ₂₈ *, 14, 3, 3; 2000 FA₂₉ *, 19, 4, 11; 2000 FB₂₉ *, 13, 3, 9;

2000 FC₂₉ *, 28, 6, 11; 2000 FD₂₉ *, 15, 3, 3; 2000 FE₂₉ *, 9, 2, 1; 2000 FF₂₉ *, 14, 3, 3; 2000 FG₂₉ *,
3, 1, 0; 2000 FH₂₉ *, 12, 3, 3; 2000 FI₂₉ *, 20, 4, 5; 2000 FJ₂₉ *, 18, 4, 32; 2000 FK₂₉ *, 18, 4, 32; 2000 FL₂₉ *, 34, 5, 5;
2000 FM₂₉ *, 29, 5, 5; 2000 FN₂₉ *, 14, 3, 2; 2000 FO₂₉ *, 27, 5, 5; 2000 FP₂₉ *, 20, 5, 5; 2000 FQ₂₉ *,
24, 5, 5; 2000 FR₂₉ *, 12, 3, 3; 2000 FS₂₉ *, 18, 4, 3; 2000 FT₂₉ *, 20, 4, 5; 2000 FU₂₉ *, 10, 2, 6;
2000 FV₂₉ *, 17, 4, 5; 2000 FW₂₉ *, 13, 3, 2; 2000 FX₂₉ *, 18, 4, 5; 2000 FY₂₉ *, 20, 4, 29; 2000 FZ₂₉ *,
21, 4, 3; 2000 FA₃₀ *, 19, 4, 3; 2000 FB₃₀ *, 18, 4, 5; 2000 FC₃₀ *, 33, 6, 33; 2000 FD₃₀ *, 13, 3, 5;
2000 FE₃₀ *, 15, 3, 8; 2000 FF₃₀ *, 19, 4, 12; 2000 FG₃₀ *, 15, 3, 6; 2000 FH₃₀ *, 18, 4, 12; 2000 FI₃₀ *,
20, 4, 12; 2000 FJ₃₀ *, 29, 6, 1069; 2000 FK₃₀ *, 20, 4, 12; 2000 FL₃₀ *, 15, 3, 10; 2000 FM₃₀ *, 20,
4, 510; 2000 FN₃₀ *, 25, 5, 33; 2000 FO₃₀ *, 20, 4, 12; 2000 FP₃₀ *, 20, 4, 12; 2000 FQ₃₀ *, 13, 3, 9;
2000 FR₃₀ *, 19, 4, 31; 2000 FS₃₀ *, 28, 5, 12; 2000 FT₃₀ *, 15, 3, 10; 2000 FU₃₀ *, 8, 2, 12; 2000 FV₃₀ *,
10, 2, 5; 2000 FW₃₀ *, 8, 2, 7; 2000 FX₃₀ *, 7, 2, 7; 2000 FY₃₀ *, 22, 5, 61; 2000 FZ₃₀ *, 13,
3, 30; 2000 FA₃₁ *, 28, 6, 92; 2000 FB₃₁ *, 22, 5, 34; 2000 FC₃₁ *, 9, 2, 7; 2000 FD₃₁ *, 22,
5, 34; 2000 FE₃₁ *, 24, 5, 35; 2000 FF₃₁ *, 14, 3, 11; 2000 FG₃₁ *, 11, 3, 10; 2000 FH₃₁ *, 20,
5, 34; 2000 FI₃₁ *, 8, 2, 7; 2000 FJ₃₁ *, 9, 2, 7; 2000 FK₃₁ *, 37, 8, 487; 2000 FL₃₁ *, 27, 6,
64; 2000 FM₃₁ *, 23, 5, 34; 2000 FN₃₁ *, 22, 5, 34; 2000 FO₃₁ *, 27, 6, 92; 2000 FP₃₁ *, 22, 5,
34; 2000 FQ₃₁ *, 24, 5, 34; 2000 FR₃₁ *, 26, 6, 92; 2000 FS₃₁ *, 17, 4, 34; 2000 FT₃₁ *, 20,
5, 34; 2000 FU₃₁ *, 7, 2, 6; 2000 FV₃₁ *, 12, 3, 10; 2000 FW₃₁ *, 10, 2, 6; 2000 FX₃₁ *, 20, 4,
24; 2000 FY₃₁ *, 16, 4, 24; 2000 FZ₃₁ *, 27, 5, 27; 2000 FA₃₂ *, 15, 3, 12; 2000 FB₃₂ *, 13, 3,
12; 2000 FC₃₂ *, 16, 4, 12; 2000 FD₃₂ *, 26, 6, 33; 2000 FE₃₂ *, 9, 2, 6; 2000 FF₃₂ *, 22, 5, 33;
2000 FG₃₂ *, 17, 4, 31; 2000 FH₃₂ *, 24, 5, 33; 2000 FI₃₂ *, 28, 6, 480; 2000 FJ₃₂ *, 22, 5,
33; 2000 FK₃₂ *, 27, 6, 33; 2000 FL₃₂ *, 23, 5, 12; 2000 FM₃₂ *, 25, 5, 33; 2000 FN₃₂ *, 27, 6,
517; 2000 FO₃₂ *, 19, 4, 12; 2000 FP₃₂ *, 16, 4, 12; 2000 FQ₃₂ *, 11, 3, 12; 2000 FR₃₂ *, 23,
5, 33; 2000 FS₃₂ *, 13, 3, 10; 2000 FT₃₂ *, 17, 4, 24; 2000 FU₃₂ *, 18, 4, 34; 2000 FV₃₂ *, 19,
4, 24; 2000 FW₃₂ *, 25, 5, 34; 2000 FX₃₂ *, 10, 2, 6; 2000 FY₃₂ *, 14, 3, 10; 2000 FZ₃₂ *, 14,
3, 10; 2000 FA₃₃ *, 12, 3, 12; 2000 FB₃₃ *, 12, 3, 10; 2000 FC₃₃ *, 14, 3, 10; 2000 FD₃₃ *, 24,
5, 36; 2000 FE₃₃ *, 45, 9, 94; 2000 FF₃₃ *, 14, 3, 10; 2000 FG₃₃ *, 14, 3, 10; 2000 FH₃₃ *, 39,
9, 98; 2000 FI₃₃ *, 19, 4, 64; 2000 FJ₃₃ *, 24, 5, 34; 2000 FK₃₃ *, 13, 3, 23; 2000 FL₃₃ *, 11,
3, 10; 2000 FM₃₃ *, 18, 4, 27; 2000 FN₃₃ *, 8, 2, 6; 2000 FO₃₃ *, 8, 2, 6; 2000 FP₃₃ *, 19, 4,
12; 2000 FQ₃₃ *, 28, 7, 483; 2000 FR₃₃ *, 9, 2, 6; 2000 FS₃₃ *, 8, 2, 6; 2000 FT₃₃ *, 15, 4,
12; 2000 FU₃₃ *, 14, 3, 12; 2000 FV₃₃ *, 12, 3, 10; 2000 FW₃₃ *, 18, 4, 12; 2000 FX₃₃ *, 24, 5,
33; 2000 FY₃₃ *, 17, 4, 34; 2000 FZ₃₃ *, 11, 3, 9; 2000 FA₃₄ *, 18, 5, 33; 2000 FB₃₄ *, 7, 2,
6; 2000 FC₃₄ *, 17, 4, 24; 2000 FD₃₄ *, 10, 3, 10; 2000 FE₃₄ *, 16, 4, 22; 2000 FF₃₄ *, 18, 4,
24; 2000 FG₃₄ *, 15, 3, 10; 2000 FH₃₄ *, 14, 3, 10; 2000 FI₃₄ *, 15, 3, 10; 2000 FJ₃₄ *, 20,
4, 12; 2000 FK₃₄ *, 20, 4, 12; 2000 FL₃₄ *, 9, 2, 6; 2000 FM₃₄ *, 25, 6, 30; 2000 FN₃₄ *, 22, 5,
12; 2000 FO₃₄ *, 32, 6, 33; 2000 FP₃₄ *, 26, 6, 31; 2000 FQ₃₄ *, 9, 2, 6; 2000 FR₃₄ *, 27, 6,
12; 2000 FS₃₄ *, 24, 5, 31; 2000 FT₃₄ *, 24, 5, 12; 2000 FU₃₄ *, 20, 4, 12; 2000 FV₃₄ *, 32, 6,
12; 2000 FW₃₄ *, 25, 5, 33; 2000 FX₃₄ *, 23, 5, 33; 2000 FY₃₄ *, 37, 6, 1095; 2000 FZ₃₄ *, 17,
4, 12; 2000 FA₃₅ *, 29, 6, 485; 2000 FB₃₅ *, 22, 5, 12; 2000 FC₃₅ *, 20, 4, 12; 2000 FD₃₅ *, 19,
4, 31; 2000 FE₃₅ *, 24, 5, 33; 2000 FF₃₅ *, 28, 6, 36; 2000 FG₃₅ *, 14, 3, 10; 2000 FH₃₅ *, 11,
3, 10; 2000 FI₃₅ *, 15, 3, 10; 2000 FJ₃₅ *, 18, 4, 12; 2000 FK₃₅ *, 15, 3, 15; 2000 FL₃₅ *, 13,
3, 10; 2000 FM₃₅ *, 13, 3, 10; 2000 FN₃₅ *, 10, 2, 6; 2000 FO₃₅ *, 26, 6, 89; 2000 FP₃₅ *, 18,
4, 64; 2000 FQ₃₅ *, 35, 7, 98; 2000 FR₃₅ *, 28, 6, 448; 2000 FS₃₅ *, 37, 8, 518; 2000 FT₃₅ *, 20,
38, 8, 97; 2000 FU₃₅ *, 12, 3, 10; 2000 FV₃₅ *, 10, 2, 6; 2000 FW₃₅ *, 8, 2, 6; 2000 FX₃₅ *, 10,
2, 6; 2000 FY₃₅ *, 21, 5, 33; 2000 FZ₃₅ *, 8, 2, 6; 2000 FA₃₆ *, 10, 2, 6; 2000 FB₃₆ *, 7, 2, 6;
2000 FC₃₆ *, 20, 4, 31; 2000 FD₃₆ *, 8, 2, 6; 2000 FE₃₆ *, 14, 3, 10; 2000 FF₃₆ *, 15, 3, 10;
2000 FG₃₆ *, 15, 3, 10; 2000 FH₃₆ *,

3, 10; 2000 FF₄₀ *, 19, 4, 31; 2000 FG₄₀ *, 14, 3, 10; 2000 FH₄₀ *, 45, 10, 897; 2000 FJ₄₀ *, 25, 5, 36; 2000 FK₄₀ *, 15, 3, 10; 2000 FL₄₀ *, 14, 3, 10; 2000 FM₄₀ *, 15, 3, 10; 2000 FN₄₀ *, 13, 3, 10; 2000 FO₄₀ *, 10, 2, 6; 2000 FP₄₀ *, 13, 2, 6; 2000 FQ₄₀ *, 14, 3, 10; 2000 FR₄₀ *, 9, 2, 6; 2000 FS₄₀ *, 14, 3, 10; 2000 FT₄₀ *, 14, 3, 10; 2000 FU₄₀ *, 16, 4, 31; 2000 FV₄₀ *, 14, 3, 10; 2000 FW₄₀ *, 14, 3, 10; 2000 FX₄₀ *, 19, 4, 31; 2000 FY₄₀ *, 18, 4, 15; 2000 FZ₄₀ *, 23, 5, 65; 2000 FA₄₁ *, 25, 5, 36; 2000 FB₄₁ *, 9, 2, 6; 2000 FC₄₁ *, 9, 2, 6; 2000 FD₄₁ *, 18, 3, 10; 2000 FE₄₁ *, 8, 2, 6; 2000 FF₄₁ *, 18, 4, 30; 2000 FG₄₁ *, 15, 3, 10; 2000 FH₄₁ *, 10, 2, 6; 2000 FJ₄₁ *, 7, 2, 6; 2000 FK₄₁ *, 13, 3, 10; 2000 FL₄₁ *, 21, 5, 36; 2000 FM₄₁ *, 10, 2, 6; 2000 FN₄₁ *, 13, 3, 10; 2000 FO₄₁ *, 23, 5, 36; 2000 FP₄₁ *, 18, 4, 15; 2000 FQ₄₁ *, 20, 5, 67; 2000 FR₄₁ *, 10, 2, 6; 2000 FS₄₁ *, 20, 4, 15; 2000 FT₄₁ *, 24, 5, 36; 2000 FU₄₁ *, 17, 4, 8; 2000 FV₄₁ *, 8, 2, 6; 2000 FW₄₁ *, 8, 2, 6; 2000 FX₄₁ *, 13, 3, 10; 2000 FY₄₁ *, 26, 6, 62; 2000 FZ₄₁ *, 19, 4, 12; 2000 FA₄₂ *, 7, 2, 6; 2000 FB₄₂ *, 19, 4, 15; 2000 FC₄₂ *, 14, 3, 10; 2000 FD₄₂ *, 6, 2, 6; 2000 FE₄₂ *, 7, 2, 6; 2000 FF₄₂ *, 15, 4, 30; 2000 FG₄₂ *, 13, 3, 10; 2000 FH₄₂ *, 6, 2, 6; 2000 FJ₄₂ *, 18, 4, 12; 2000 FK₄₂ *, 21, 5, 32; 2000 FL₄₂ *, 11, 3, 12; 2000 FM₄₂ *, 19, 4, 9; 2000 FN₄₂ *, 6, 2, 7; 2000 FQ₄₂ *, 23, 5, 29; 2000 FR₄₂ *, 33, 7, 97; 2000 FS₄₂ *, 13, 3, 24; 2000 FT₄₂ *, 7, 2, 8; 2000 FU₄₂ *, 7, 2, 8; 2000 FV₄₂ *, 19, 5, 29; 2000 FW₄₂ *, 26, 6, 59; 2000 FX₄₂ *, 12, 3, 24; 2000 FY₄₂ *, 8, 2, 8; 2000 FZ₄₂ *, 11, 3, 24; 2000 FA₄₃ *, 6, 2, 8; 2000 FB₄₃ *, 17, 4, 13; 2000 FC₄₃ *, 24, 6, 513; 2000 FD₄₃ *, 28, 7, 93; 2000 FE₄₃ *, 8, 2, 8; 2000 FF₄₃ *, 9, 2, 7; 2000 FG₄₃ *, 31, 6, 29; 2000 FH₄₃ *, 13, 3, 24; 2000 FJ₄₃ *, 9, 2, 7; 2000 FK₄₃ *, 9, 2, 7; 2000 FL₄₃ *, 9, 2, 7; 2000 FM₄₃ *, 9, 2, 7; 2000 FN₄₃ *, 9, 2, 7; 2000 FO₄₃ *, 10, 2, 7; 2000 FP₄₃ *, 10, 2, 7; 2000 FQ₄₃ *, 8, 2, 7; 2000 FR₄₃ *, 8, 2, 7; 2000 FS₄₃ *, 10, 2, 7; 2000 FT₄₃ *, 12, 3, 8; 2000 FU₄₃ *, 11, 2, 7; 2000 FV₄₃ *, 17, 4, 29; 2000 FW₄₃ *, 10, 2, 7; 2000 FX₄₃ *, 9, 2, 7; 2000 FY₄₃ *, 12, 3, 15; 2000 FZ₄₃ *, 9, 2, 7; 2000 FA₄₄ *, 10, 2, 7; 2000 FB₄₄ *, 19, 4, 15; 2000 FC₄₄ *, 8, 2, 7; 2000 FD₄₄ *, 10, 2, 7; 2000 FE₄₄ *, 9, 2, 7; 2000 FF₄₄ *, 9, 2, 7; 2000 FG₄₄ *, 7, 2, 7; 2000 FH₄₄ *, 11, 3, 12; 2000 FJ₄₄ *, 18, 4, 12; 2000 FK₄₄ *, 14, 4, 29; 2000 FL₄₄ *, 13, 3, 10; 2000 FM₄₄ *, 8, 2, 7; 2000 FN₄₄ *, 17, 4, 12; 2000 FO₄₄ *, 9, 2, 7; 2000 FP₄₄ *, 33, 6, 29; 2000 FQ₄₄ *, 7, 2, 7; 2000 FR₄₄ *, 14, 3, 10; 2000 FS₄₄ *, 28, 6, 97; 2000 FT₄₄ *, 8, 2, 7; 2000 FU₄₄ *, 8, 2, 7; 2000 FV₄₄ *, 7, 2, 7; 2000 FW₄₄ *, 8, 2, 7; 2000 FX₄₄ *, 28, 5, 12; 2000 FY₄₄ *, 7, 2, 7; 2000 FZ₄₄ *, 18, 4, 26; 2000 FA₄₅ *, 6, 2, 7; 2000 FB₄₅ *, 14, 3, 8; 2000 FC₄₅ *, 8, 2, 7; 2000 FD₄₅ *, 25, 6, 31; 2000 FE₄₅ *, 9, 2, 7; 2000 FF₄₅ *, 8, 2, 7; 2000 FG₄₅ *, 9, 2, 7; 2000 FH₄₅ *, 8, 2, 7; 2000 FJ₄₅ *, 9, 2, 7; 2000 FK₄₅ *, 8, 2, 7; 2000 FL₄₅ *, 10, 2, 7; 2000 FM₄₅ *, 9, 2, 7; 2000 FN₄₅ *, 6, 2, 7; 2000 FO₄₅ *, 8, 2, 7; 2000 FP₄₅ *, 10, 2, 7; 2000 FQ₄₅ *, 10, 2, 7; 2000 FR₄₅ *, 10, 2, 7; 2000 FS₄₅ *, 15, 4, 15; 2000 FT₄₅ *, 8, 2, 7; 2000 FU₄₅ *, 9, 2, 7; 2000 FV₄₅ *, 10, 2, 7; 2000 FW₄₅ *, 10, 2, 7; 2000 FX₄₅ *, 9, 2, 7; 2000 FY₄₅ *, 17, 4, 15; 2000 FZ₄₅ *, 10, 2, 7; 2000 FA₄₆ *, 20, 4, 15; 2000 FB₄₆ *, 19, 4, 15; 2000 FC₄₆ *, 19, 4, 15; 2000 FD₄₆ *, 14, 3, 15; 2000 FE₄₆ *, 10, 2, 7; 2000 FF₄₆ *, 9, 2, 7; 2000 FG₄₆ *, 9, 2, 7; 2000 FH₄₆ *, 8, 2, 7; 2000 FJ₄₆ *, 8, 2, 7; 2000 FK₄₆ *, 29, 5, 15; 2000 FL₄₆ *, 24, 5, 15; 2000 FM₄₆ *, 8, 2, 7; 2000 FN₄₆ *, 10, 2, 7; 2000 FO₄₆ *, 19, 4, 10; 2000 FP₄₆ *, 14, 3, 10; 2000 FQ₄₆ *, 14, 3, 10; 2000 FR₄₆ *, 13, 3, 10; 2000 FS₄₆ *, 8, 2, 7; 2000 FT₄₆ *, 8, 2, 7; 2000 FU₄₆ *, 8, 2, 7; 2000 FV₄₆ *, 7, 2, 7; 2000 FW₄₆ *, 10, 2, 7; 2000 FX₄₆ *, 10, 2, 7; 2000 FY₄₆ *, 20, 4, 15; 2000 FZ₄₆ *, 9, 2, 7; 2000 FA₄₇ *, 10, 2, 7; 2000 FB₄₇ *, 12, 3, 15; 2000 FC₄₇ *, 20, 4, 15; 2000 FD₄₇ *, 19, 4, 15; 2000 FE₄₇ *, 10, 2, 7; 2000 FF₄₇ *, 19, 4, 15; 2000 FG₄₇ *, 20, 4, 15; 2000 FH₄₇ *, 9, 2, 7; 2000 FJ₄₇ *, 8, 2, 7; 2000 FK₄₇ *, 9, 2, 7; 2000 FL₄₇ *, 15, 3, 10; 2000 FM₄₇ *, 8, 2, 7; 2000 FN₄₇ *, 30, 6, 447; 2000 FO₄₇ *, 10, 2, 7; 2000 FP₄₇ *, 10, 2, 7; 2000 FQ₄₇ *, 18, 4, 15; 2000 FR₄₇ *, 10, 2, 7; 2000 FS₄₇ *, 8, 2, 7; 2000 FT₄₇ *, 19, 4, 15; 2000 FU₄₇ *, 9, 2, 7; 2000 FV₄₇ *, 17, 4, 15; 2000 FW₄₇ *, 21, 5, 37; 2000 FX₄₇ *, 10, 2, 7; 2000 FY₄₇ *, 8, 2, 7; 2000 FZ₄₇ *, 32, 7, 37; 2000 FA₄₈ *, 18, 4, 15; 2000 FB₄₈ *, 23, 5, 37; 2000 FC₄₈ *, 8, 2, 7; 2000 FD₄₈ *, 9, 2, 7; 2000 FE₄₈ *, 17, 4, 9; 2000 FF₄₈ *, 25, 5, 10; 2000 FG₄₈ *, 19, 4, 9; 2000 FH₄₈ *, 9, 2, 7; 2000 FJ₄₈ *, 7, 2, 7; 2000 FK₄₈ *, 8, 2, 7; 2000 FL₄₈ *, 6, 2, 7; 2000 FM₄₈ *, 22, 5, 12; 2000 FN₄₈ *, 8, 2, 7; 2000 FO₄₈ *, 6, 2, 7; 2000 FP₄₈ *, 8, 2, 7; 2000 FQ₄₈ *, 15, 3, 23; 2000 FR₄₈ *, 9, 2, 7; 2000 FS₄₈ *, 10, 2, 7; 2000 FT₄₈ *, 13, 3, 11; 2000 FU₄₈ *, 15, 3, 11; 2000 FV₄₈ *, 7, 2, 7; 2000 FW₄₈ *, 11, 3, 23; 2000 FX₄₈ *, 20, 4, 8; 2000 FY₄₈ *, 10, 2, 7; 2000 FZ₄₈ *, 8, 2, 7; 2000 FA₄₉ *, 8, 2, 7; 2000 FB₄₉ *, 13, 3, 69; 2000 FC₄₉ *, 17, 4, 27; 2000 FD₄₉ *, 28, 6, 11; 2000 FE₄₉ *, 28, 6, 481; 2000 FF₄₉ *, 8, 2, 7; 2000 FG₄₉ *, 26, 6, 11; 2000 FH₄₉ *, 6, 2, 7; 2000 FJ₄₉ *, 7, 2, 7; 2000 FK₄₉ *, 8, 2, 7; 2000 FL₄₉ *, 14, 3, 23; 2000 FM₄₉ *, 7, 2, 7; 2000 FN₄₉ *, 9, 2, 7; 2000 FO₄₉ *, 9, 2, 7; 2000 FP₄₉ *, 9, 2, 7; 2000 FQ₄₉ *, 7, 2, 7; 2000 FR₄₉ *, 7, 2, 7; 2000 FS₄₉ *, 8, 2, 7; 2000 FT₄₉ *, 8, 2, 7; 2000 FU₄₉ *, 8, 2, 7; 2000 FV₄₉ *, 12, 2, 7; 2000 FW₄₉ *, 8, 2, 7; 2000 FX₄₉ *, 8, 2, 7; 2000 FY₄₉ *, 15, 3, 9; 2000 FZ₄₉ *, 8, 2, 7; 2000 FA₅₀ *, 8, 2, 7; 2000 FB₅₀ *, 8, 2, 7; 2000 FC₅₀ *, 8, 2, 6; 2000 FD₅₀ *, 7, 2, 6; 2000 FE₅₀ *, 8, 2, 8; 2000 FF₅₀ *, 24, 5, 67; 2000 FG₅₀ *, 8, 2, 2; 2000 FU₅₀ *, 9, 2, 1; 2000 FA₅₁ *, 5, 1, 0; 2000 FC₅₁ *, 4, 1, 0; 2000 FR₅₁ *, 4, 1, 0; 2000 FO₅₂ *, 4, 1, 0; 2000 FC₅₃ *, 8, 1, 1; 2000 FD₅₃ *, 5, 1, 0; 2000 FK₅₃ *, 6, 1, 0; 2000 GA₄ *, 1, 0; 2000 GB₄ *, 1, 0; 2000 GC₄ *, 5, 1, 0; 2000 GD₄ *, 23, 4, 32; 2000 GG₄ *, 9, 2, 1; 2000 GH₄ *, 13, 2, 1; 2000 GJ₄ *, 5, 1, 0; 2000 GK₄ *, 8, 2, 1; 2000 GL₄ *, 10, 2, 1; 2000 GM₄ *, 10, 2, 1; 2000 GN₄ *, 13, 2, 1; 2000 GV₄ *, 30, 6, 446; 2000 GW₄ *, 10, 2, 1; 2000 GX₄ *, 7, 2, 1; 2000 GY₄ *, 13, 3, 2; 2000 GZ₄ *, 6, 2, 1; 2000 GB₁ *, 7, 2, 1; 2000 GC₁ *, 8, 2, 1; 2000 GD₁ *, 8, 2, 1; 2000 GE₁ *, 13, 3, 3; 2000 GF₁ *, 15, 2, 1; 2000 GG₁ *, 13, 3, 2; 2000 GH₁ *,

41, 8, 16; 2000 GJ₁ *, 11, 3, 6; 2000 GK₁ *, 9, 2, 1; 2000 GL₁ *, 36, 8, 38; 2000 GM₁ *, 8, 2, 1; 2000 GN₁ *, 14, 3, 2; 2000 GO₁ *, 8, 2, 1; 2000 GP₁ *, 14, 3, 2; 2000 GQ₁ *, 5, 1, 0; 2000 GR₁ *, 8, 2, 1; 2000 GS₁ *, 7, 2, 1; 2000 GU₁ *, 10, 2, 2; 2000 GV₁ *, 22, 4, 3; 2000 GW₁ *, 16, 3, 2; 2000 GX₁ *, 15, 4, 4; 2000 GY₁ *, 24, 5, 5; 2000 GZ₁ *, 33, 7, 509; 2000 GA₂ *, 34, 5, 7; 2000 GC₂ *, 19, 4, 3; 2000 GD₂ *, 19, 3, 2; 2000 GE₂ *, 33, 6, 8; 2000 GF₂ *, 18, 3, 2; 2000 GG₂ *, 19, 3, 2; 2000 GJ₂ *, 4, 1, 0; 2000 GK₂ *, 9, 1, 0; 2000 GL₂ *, 10, 2, 2; 2000 GM₂ *, 15, 3, 9; 2000 GN₂ *, 12, 3, 2; 2000 GP₂ *, 24, 6, 36; 2000 GQ₂ *, 8, 2, 1; 2000 GR₂ *, 13, 3, 7; 2000 GS₂ *, 22, 4, 3; 2000 GT₂ *, 42, 8, 39; 2000 GU₂ *, 24, 5, 5; 2000 GV₂ *, 43, 8, 64; 2000 GW₂ *, 7, 2, 1; 2000 GX₂ *, 14, 3, 3; 2000 GY₂ *, 8, 2, 1; 2000 GZ₂ *, 8, 2, 1; 2000 GA₃ *, 7, 2, 1; 2000 GB₃ *, 9, 2, 1; 2000 GC₃ *, 10, 2, 1; 2000 GD₃ *, 10, 2, 1; 2000 GE₃ *, 10, 2, 1; 2000 GF₃ *, 13, 3, 2; 2000 GG₃ *, 24, 5, 5; 2000 GH₃ *, 18, 4, 5; 2000 GJ₃ *, 23, 5, 5; 2000 GK₃ *, 9, 2, 1; 2000 GL₃ *, 22, 4, 3; 2000 GM₃ *, 15, 3, 2; 2000 GN₃ *, 9, 2, 1; 2000 GO₃ *, 10, 2, 1; 2000 GP₃ *, 10, 2, 1; 2000 GQ₃ *, 13, 3, 2; 2000 GR₃ *, 19, 4, 3; 2000 GS₃ *, 10, 2, 1; 2000 GT₃ *, 8, 2, 1; 2000 GU₃ *, 18, 4, 29; 2000 GV₃ *, 22, 5, 16; 2000 GW₃ *, 19, 4, 7; 2000 GY₃ *, 8, 2, 1; 2000 GZ₃ *, 13, 3, 2; 2000 GB₄ *, 9, 2, 9; 2000 GC₄ *, 14, 3, 3; 2000 GD₄ *, 10, 2, 1; 2000 GE₄ *, 13, 3, 9; 2000 GF₄ *, 25, 4, 3; 2000 GG₄ *, 9, 2, 5; 2000 GH₄ *, 12, 3, 11; 2000 GJ₄ *, 11, 3, 11; 2000 GK₄ *, 10, 2, 4; 2000 GL₄ *, 17, 3, 4; 2000 GM₄ *, 27, 6, 598; 2000 GN₄ *, 10, 2, 4; 2000 GO₄ *, 10, 2, 4; 2000 GP₄ *, 10, 2, 4; 2000 GQ₄ *, 12, 3, 4; 2000 GR₄ *, 15, 3, 5; 2000 GS₄ *, 13, 3, 8; 2000 GT₄ *, 10, 3, 8; 2000 GU₄ *, 19, 4, 9; 2000 GV₄ *, 10, 2, 2; 2000 GW₄ *, 20, 5, 5; 2000 GX₄ *, 17, 4, 8; 2000 GY₄ *, 10, 2, 3; 2000 GZ₄ *, 16, 4, 7; 2000 GA₅ *, 8, 2, 2; 2000 GB₅ *, 20, 4, 5; 2000 GC₅ *, 9, 2, 2; 2000 GD₅ *, 9, 2, 4; 2000 GE₅ *, 8, 2, 4; 2000 GF₅ *, 7, 2, 4; 2000 GG₅ *, 27, 5, 6; 2000 GH₅ *, 25, 4, 6; 2000 GJ₅ *, 21, 4, 4; 2000 GK₅ *, 21, 4, 4; 2000 GL₅ *, 9, 2, 1; 2000 GM₅ *, 22, 5, 27; 2000 GN₅ *, 9, 2, 1; 2000 GO₅ *, 10, 2, 3; 2000 GP₅ *, 10, 2, 3; 2000 GQ₅ *, 8, 2, 3; 2000 GR₅ *, 8, 2, 3; 2000 GS₅ *, 9, 2, 3; 2000 GT₅ *, 27, 5, 4; 2000 GU₅ *, 28, 6, 6; 2000 GV₅ *, 17, 4, 4; 2000 GW₅ *, 10, 2, 1; 2000 GX₅ *, 10, 2, 1; 2000 GY₅ *, 10, 2, 1; 2000 GZ₅ *, 11, 3, 2; 2000 GA₆ *, 9, 2, 1; 2000 GB₆ *, 9, 2, 1; 2000 GC₆ *, 19, 4, 4; 2000 GE₆ *, 17, 4, 6; 2000 GF₆ *, 9, 2, 1; 2000 GG₆ *, 25, 5, 6; 2000 GH₆ *, 35, 6, 6; 2000 GJ₆ *, 10, 2, 1; 2000 GK₆ *, 27, 5, 6; 2000 GL₆ *, 14, 3, 2; 2000 GM₆ *, 14, 3, 2; 2000 GN₆ *, 9, 2, 1; 2000 GO₆ *, 14, 3, 2; 2000 GP₆ *, 24, 4, 6; 2000 GQ₆ *, 30, 5, 31; 2000 GR₆ *, 13, 3, 2; 2000 GS₆ *, 6, 2, 1; 2000 GT₆ *, 9, 2, 2; 2000 GU₆ *, 10, 2, 1; 2000 GV₆ *, 14, 3, 2; 2000 GW₆ *, 8, 2, 1; 2000 GX₆ *, 8, 2, 1; 2000 GY₆ *, 9, 2, 1; 2000 GZ₆ *, 8, 2, 1; 2000 GA₇ *, 8, 2, 1; 2000 GB₇ *, 16, 4, 3; 2000 GC₇ *, 15, 4, 6; 2000 GD₇ *, 13, 3, 2; 2000 GE₇ *, 27, 6, 33; 2000 GF₇ *, 13, 3, 2; 2000 GH₇ *, 18, 4, 6; 2000 GJ₇ *, 9, 2, 3; 2000 GK₇ *, 8, 2, 1; 2000 GL₇ *, 16, 3, 6; 2000 GM₇ *, 12, 3, 2; 2000 GN₇ *, 17, 4, 9; 2000 GO₇ *, 12, 3, 4; 2000 GP₇ *, 17, 4, 9; 2000 GQ₇ *, 17, 4, 3; 2000 GR₇ *, 10, 2, 1; 2000 GS₇ *, 32, 7, 65; 2000 GT₇ *, 17, 4, 9; 2000 GU₇ *, 14, 2, 1; 2000 GV₇ *, 15, 2, 1; 2000 GW₇ *, 15, 3, 9; 2000 GX₇ *, 13, 3, 9; 2000 GY₇ *, 15, 3, 9; 2000 GZ₇ *, 21, 4, 4; 2000 GA₈ *, 15, 4, 34; 2000 GB₈ *, 8, 2, 1; 2000 GC₈ *, 9, 2, 1; 2000 GD₈ *, 8, 2, 1; 2000 GE₈ *, 27, 5, 4; 2000 GF₈ *, 6, 2, 1; 2000 GG₈ *, 9, 2, 1; 2000 GH₈ *, 7, 2, 1; 2000 GJ₈ *, 9, 2, 1; 2000 GK₈ *, 9, 2, 1; 2000 GL₈ *, 8, 2, 1; 2000 GM₈ *, 8, 2, 1; 2000 GN₈ *, 13, 3, 26; 2000 GO₈ *, 9, 2, 1; 2000 GP₈ *, 9, 2, 2; 2000 GQ₈ *, 8, 2, 1; 2000 GR₈ *, 8, 2, 1; 2000 GS₈ *, 8, 2, 1; 2000 GT₈ *, 8, 2, 1; 2000 GU₈ *, 17, 3, 5; 2000 GV₈ *, 8, 2, 1; 2000 GW₈ *, 8, 2, 1; 2000 GX₈ *, 8, 2, 1; 2000 GY₈ *, 9, 2, 1; 2000 GZ₈ *, 12, 2, 1; 2000 GA₉ *, 12, 3, 5; 2000 GB₉ *, 10, 2, 2; 2000 GC₉ *, 10, 2, 1; 2000 GD₉ *, 9, 2, 1; 2000 GE₉ *, 8, 2, 1; 2000 GF₉ *, 8, 2, 1; 2000 GG₉ *, 8, 2, 1; 2000 GH₉ *, 17, 4, 34; 2000 GJ₉ *, 7, 2, 1; 2000 GK₉ *, 7, 2, 1; 2000 GL₉ *, 7, 2, 1; 2000 GM₉ *, 8, 2, 1; 2000 GN₉ *, 8, 2, 1; 2000 GO₉ *, 8, 2, 1; 2000 GP₉ *, 12, 3, 5; 2000 GQ₉ *, 15, 4, 30; 2000 GR₉ *, 7, 2, 1; 2000 GS₉ *, 8, 2, 1; 2000 GT₉ *, 7, 2, 1; 2000 GU₉ *, 7, 2, 1; 2000 GV₉ *, 8, 2, 1; 2000 GW₉ *, 7, 2, 2; 2000 GX₉ *, 7, 2, 1; 2000 GY₉ *, 7, 2, 1; 2000 GZ₉ *, 6, 2, 1; 2000 GA₁₀ *, 6, 2, 1; 2000 GB₁₀ *, 15, 4, 59; 2000 GC₁₀ *, 6, 2, 1; 2000 GD₁₀ *, 14, 3, 3; 2000 GE₁₀ *, 8, 2, 1; 2000 GF₁₀ *, 8, 2, 1; 2000 GG₁₀ *, 8, 2, 1; 2000 GH₁₀ *, 9, 2, 1; 2000 GJ₁₀ *, 12, 3

2000 APR. 18

M.P.C. 39777

2, 1; 2000 GS₁₃ *, 8, 2, 1; 2000 GU₁₃ *, 9, 2, 1; 2000 GV₁₃ *, 7, 2, 1; 2000 GW₁₃ *, 9, 2, 1; 2000 GX₁₃ *, 11, 3, 26; 2000 GY₁₃ *, 9, 2, 1; 2000 GZ₁₃ *, 10, 2, 1; 2000 GA₁₄ *, 9, 2, 1; 2000 GB₁₄ *, 10, 2, 1; 2000 GC₁₄ *, 22, 5, 5; 2000 GD₁₄ *, 10, 2, 1; 2000 GE₁₄ *, 10, 2, 1; 2000 GF₁₄ *, 8, 2, 1; 2000 GH₁₄ *, 8, 2, 1; 2000 GI₁₄ *, 12, 3, 5; 2000 GJ₁₄ *, 9, 2, 1; 2000 GK₁₄ *, 9, 2, 1; 2000 GL₁₄ *, 7, 2, 1; 2000 GM₁₄ *, 9, 2, 1; 2000 GN₁₄ *, 8, 2, 1; 2000 GO₁₄ *, 10, 2, 1; 2000 GP₁₄ *, 8, 2, 1; 2000 GQ₁₄ *, 9, 2, 1; 2000 GR₁₄ *, 9, 2, 1; 2000 GS₁₄ *, 8, 2, 1; 2000 GT₁₄ *, 8, 2, 1; 2000 GU₁₄ *, 9, 2, 1; 2000 GV₁₄ *, 8, 2, 1; 2000 GW₁₄ *, 8, 2, 1; 2000 GX₁₄ *, 9, 2, 1; 2000 GY₁₄ *, 8, 2, 1; 2000 GZ₁₄ *, 8, 2, 1; 2000 GA₁₅ *, 7, 2, 1; 2000 GB₁₅ *, 8, 2, 1; 2000 GC₁₅ *, 8, 2, 1; 2000 GD₁₅ *, 7, 2, 1; 2000 GE₁₅ *, 8, 2, 1; 2000 GF₁₅ *, 3, 1, 0; 2000 GG₁₅ *, 7, 2, 1; 2000 GH₁₅ *, 7, 2, 1; 2000 GI₁₅ *, 7, 2, 1; 2000 GK₁₅ *, 8, 2, 1; 2000 GL₁₅ *, 7, 2, 1; 2000 GM₁₅ *, 7, 2, 1; 2000 GN₁₅ *, 17, 4, 3; 2000 GO₁₅ *, 9, 2, 1; 2000 GP₁₅ *, 23, 5, 5; 2000 GQ₁₅ *, 8, 2, 1; 2000 GR₁₅ *, 24, 5, 5; 2000 GS₁₅ *, 8, 2, 1; 2000 GT₁₅ *, 9, 2, 1; 2000 GU₁₅ *, 13, 3, 26; 2000 GV₁₅ *, 9, 2, 1; 2000 GW₁₅ *, 8, 2, 1; 2000 GX₁₅ *, 8, 2, 1; 2000 GY₁₅ *, 8, 2, 1; 2000 GZ₁₅ *, 8, 2, 1; 2000 GA₁₆ *, 17, 4, 5; 2000 GB₁₆ *, 14, 3, 27; 2000 GC₁₆ *, 10, 2, 1; 2000 GD₁₆ *, 10, 2, 1; 2000 GE₁₆ *, 9, 2, 1; 2000 GF₁₆ *, 10, 2, 1; 2000 GG₁₆ *, 9, 2, 1; 2000 GH₁₆ *, 7, 2, 1; 2000 GI₁₆ *, 10, 2, 1; 2000 GK₁₆ *, 10, 2, 1; 2000 GL₁₆ *, 9, 2, 1; 2000 GM₁₆ *, 6, 2, 1; 2000 GN₁₆ *, 20, 4, 28; 2000 GO₁₆ *, 10, 2, 1; 2000 GP₁₆ *, 10, 2, 1; 2000 GQ₁₆ *, 9, 2, 1; 2000 GR₁₆ *, 8, 2, 1; 2000 GS₁₆ *, 8, 2, 1; 2000 GT₁₆ *, 8, 2, 1; 2000 GU₁₆ *, 9, 2, 1; 2000 GV₁₆ *, 10, 2, 1; 2000 GW₁₆ *, 7, 2, 1; 2000 GX₁₆ *, 8, 2, 1; 2000 GY₁₆ *, 10, 2, 1; 2000 GZ₁₆ *, 9, 2, 1; 2000 GA₁₇ *, 10, 2, 1; 2000 GB₁₇ *, 10, 2, 1; 2000 GC₁₇ *, 19, 4, 6; 2000 GD₁₇ *, 10, 2, 1; 2000 GE₁₇ *, 13, 3, 2; 2000 GF₁₇ *, 8, 2, 1; 2000 GG₁₇ *, 10, 2, 1; 2000 GH₁₇ *, 9, 2, 1; 2000 GJ₁₇ *, 10, 2, 1; 2000 GK₁₇ *, 10, 2, 1; 2000 GL₁₇ *, 10, 2, 1; 2000 GM₁₇ *, 14, 2, 1; 2000 GN₁₇ *, 16, 3, 5; 2000 GO₁₇ *, 10, 2, 1; 2000 GP₁₇ *, 28, 6, 6; 2000 GQ₁₇ *, 8, 2, 1; 2000 GR₁₇ *, 9, 2, 1; 2000 GS₁₇ *, 14, 3, 5; 2000 GT₁₇ *, 9, 2, 1; 2000 GU₁₇ *, 10, 2, 1; 2000 GV₁₇ *, 7, 2, 1; 2000 GW₁₇ *, 7, 2, 1; 2000 GX₁₇ *, 14, 3, 2; 2000 GY₁₇ *, 9, 2, 1; 2000 GZ₁₇ *, 9, 2, 1; 2000 GA₁₈ *, 12, 3, 2; 2000 GB₁₈ *, 9, 2, 1; 2000 GC₁₈ *, 9, 2, 1; 2000 GD₁₈ *, 9, 2, 1; 2000 GE₁₈ *, 9, 2, 1; 2000 GF₁₈ *, 9, 2, 1; 2000 GG₁₈ *, 8, 2, 1; 2000 GH₁₈ *, 9, 2, 1; 2000 GI₁₈ *, 8, 2, 1; 2000 GK₁₈ *, 8, 2, 1; 2000 GL₁₈ *, 13, 3, 2; 2000 GM₁₈ *, 10, 2, 1; 2000 GN₁₈ *, 8, 2, 1; 2000 GO₁₈ *, 10, 2, 1; 2000 GP₁₈ *, 12, 2, 1; 2000 GQ₁₈ *, 8, 2, 1; 2000 GR₁₈ *, 9, 2, 1; 2000 GS₁₈ *, 10, 2, 1; 2000 GT₁₈ *, 9, 2, 1; 2000 GU₁₈ *, 8, 2, 1; 2000 GV₁₈ *, 10, 2, 1; 2000 GW₁₈ *, 10, 2, 1; 2000 GX₁₈ *, 14, 3, 2; 2000 GY₁₈ *, 10, 2, 1; 2000 GZ₁₈ *, 9, 2, 1; 2000 GA₁₉ *, 14, 2, 2; 2000 GB₁₉ *, 9, 2, 1; 2000 GC₁₉ *, 15, 3, 3; 2000 GD₁₉ *, 10, 2, 1; 2000 GE₁₉ *, 9, 2, 1; 2000 GF₁₉ *, 9, 2, 1; 2000 GG₁₉ *, 25, 4, 3; 2000 GH₁₉ *, 7, 2, 1; 2000 GI₁₉ *, 10, 2, 1; 2000 GK₁₉ *, 10, 2, 1; 2000 GL₁₉ *, 10, 2, 1; 2000 GM₁₉ *, 9, 2, 1; 2000 GN₁₉ *, 34, 5, 5; 2000 GO₁₉ *, 18, 4, 3; 2000 GP₁₉ *, 8, 2, 1; 2000 GQ₁₉ *, 18, 4, 3; 2000 GR₁₉ *, 10, 2, 1; 2000 GS₁₉ *, 9, 2, 1; 2000 GT₁₉ *, 10, 2, 1; 2000 GU₁₉ *, 8, 2, 1; 2000 GV₁₉ *, 9, 2, 1; 2000 GW₁₉ *, 9, 2, 1; 2000 GX₁₉ *, 8, 2, 1; 2000 GY₁₉ *, 9, 2, 1; 2000 GZ₁₉ *, 13, 3, 27; 2000 GA₂₀ *, 10, 2, 1; 2000 GB₂₀ *, 10, 2, 1; 2000 GC₂₀ *, 9, 2, 1; 2000 GD₂₀ *, 10, 2, 1; 2000 GE₂₀ *, 7, 2, 1; 2000 GF₂₀ *, 8, 2, 1; 2000 GG₂₀ *, 10, 2, 1; 2000 GH₂₀ *, 9, 2, 1; 2000 GI₂₀ *, 10, 2, 1; 2000 GK₂₀ *, 29, 5, 5; 2000 GL₂₀ *, 9, 2, 1; 2000 GM₂₀ *, 9, 2, 1; 2000 GN₂₀ *, 9, 2, 1; 2000 GO₂₀ *, 24, 5, 5; 2000 GP₂₀ *, 9, 2, 1; 2000 GQ₂₀ *, 9, 2, 1; 2000 GR₂₀ *, 9, 2, 1; 2000 GS₂₀ *, 9, 2, 1; 2000 GT₂₀ *, 9, 2, 1; 2000 GU₂₀ *, 9, 2, 1; 2000 GV₂₀ *, 7, 2, 1; 2000 GW₂₀ *, 7, 2, 1; 2000 GX₂₀ *, 10, 2, 1; 2000 GY₂₀ *, 9, 2, 1; 2000 GZ₂₀ *, 10, 2, 1; 2000 GA₂₁ *, 17, 4, 3; 2000 GB₂₁ *, 17, 4, 3; 2000 GC₂₁ *, 18, 4, 3; 2000 GD₂₁ *, 9, 2, 1; 2000 GE₂₁ *, 10, 2, 1; 2000 GF₂₁ *, 9, 2, 1; 2000 GG₂₁ *, 7, 2, 1; 2000 GH₂₁ *, 10, 2, 1; 2000 GI₂₁ *, 9, 2, 1; 2000 GK₂₁ *, 9, 2, 1; 2000 GL₂₁ *, 9, 2, 2; 2000 GM₂₁ *, 9, 2, 1; 2000 GN₂₁ *, 13, 2, 1; 2000 GO₂₁ *, 10, 2, 1; 2000 GP₂₁ *, 9, 2, 1; 2000 GQ₂₁ *, 8, 2, 1; 2000 GR₂₁ *, 9, 2, 1; 2000 GS₂₁ *, 9, 2, 1; 2000 GT₂₁ *, 17, 4, 3; 2000 GU₂₁ *, 9, 2, 1; 2000 GV₂₁ *, 18, 4, 5; 2000 GW₂₁ *, 9, 2, 1; 2000 GX₂₁ *, 10, 2, 1; 2000 GY₂₁ *, 8, 2, 1; 2000 GZ₂₁ *, 10, 2, 1; 2000 GA₂₂ *, 10, 2, 1; 2000 GB₂₂ *, 10, 2, 1; 2000 GC₂₂ *, 10, 2, 1; 2000 GD₂₂ *, 8, 2, 1; 2000 GE₂₂ *, 8, 2, 1; 2000 GF₂₂ *, 8, 2, 1; 2000 GG₂₂ *, 9, 2, 1; 2000 GH₂₂ *, 9, 2, 1; 2000 GI₂₂ *, 8, 2, 1; 2000 GK₂₂ *, 8, 2, 1; 2000 GL₂₂ *, 9, 2, 1; 2000 GM₂₂ *, 9, 3, 5; 2000 GN₂₂ *, 10, 2, 1; 2000 GO₂₂ *, 6, 2, 1; 2000 GP₂₂ *, 9, 2, 1; 2000 GQ₂₂ *, 10, 2, 1; 2000 GR₂₂ *, 9, 2, 1; 2000 GS₂₂ *, 9, 2, 1; 2000 GT₂₂ *, 10, 2, 1; 2000 GU₂₂ *, 14, 2, 1; 2000 GV₂₂ *, 10, 2, 1; 2000 GW₂₂ *, 15, 4, 6; 2000 GX₂₂ *, 13, 3, 5; 2000 GY₂₂ *, 8, 2, 1; 2000 GZ₂₂ *, 9, 2, 1; 2000 GA₂₃ *, 8, 2, 1; 2000 GB₂₃ *, 7, 2, 1; 2000 GC₂₃ *, 7, 2, 1; 2000 GD₂₃ *, 8, 2, 1; 2000 GE₂₃ *, 10, 2, 1; 2000 GF₂₃ *, 10, 2, 1; 2000 GG₂₃ *, 8, 2, 1; 2000 GH₂₃ *, 9, 2, 1; 2000 GJ₂₃ *, 10, 2, 1; 2000 GK₂₃ *, 8, 2, 1; 2000 GL₂₃ *, 20, 4, 5; 2000 GM₂₃ *, 10, 2, 1; 2000 GN₂₃ *, 7, 2, 1; 2000 GO₂₃ *, 10, 2, 1; 2000 GP₂₃ *, 19, 4, 5; 2000 GQ₂₃ *, 7, 2, 1; 2000 GR₂₃ *, 23, 5, 5; 2000 GS₂₃ *, 8, 2, 1; 2000 GT₂₃ *, 10, 2, 1; 2000 GU₂₃ *, 8, 2, 1; 2000 GV₂₃ *, 10, 2, 1; 2000 GW₂₃ *, 10, 2, 1; 2000 GX₂₃ *, 10, 2, 1; 2000 GY₂₃ *, 8, 2, 1; 2000 GZ₂₃ *, 9, 2, 1; 2000 GA₂₄ *, 8, 2, 1; 2000 GB₂₄ *, 9, 2, 1; 2000 GC₂₄ *, 10, 2, 1; 2000 GD₂₄ *, 9, 2, 1; 2000 GE₂₄ *, 9, 2, 1; 2000 GF₂₄ *, 9, 2, 1; 2000 GG₂₄ *, 10, 2, 1; 2000 GH₂₄ *, 7, 2, 1; 2000 GJ₂₄ *, 9, 2, 2; 2000 GK₂₄ *, 9, 2, 2; 2000 GL₂₄ *, 10, 2, 1; 2000 GM₂₄ *, 8, 2, 1; 2000 GN₂₄ *, 9, 2, 1; 2000 GO₂₄ *, 9, 2, 1; 2000 GP₂₄ *, 12, 2, 1; 2000 GQ₂₄ *, 19, 4, 3; 2000 GR₂₄ *, 25, 5, 5; 2000 GS₂₄ *, 23, 5, 29; 2000 GT₂₄ *, 22, 5, 5; 2000 GU₂₄ *, 10, 2, 1; 2000 GV₂₄ *, 24, 5, 5; 2000 GW₂₄ *, 10, 2, 1; 2000 GX₂₄ *, 25, 5, 5; 2000 GY₂₄ *, 9, 2, 1; 2000 GZ₂₄ *, 9, 2, 1; 2000 GA₂₅ *, 8, 2, 1; 2000 GB₂₅ *, 9, 2,

1; 2000 GC₂₅ *, 25, 5, 29; 2000 GD₂₅ *, 9, 2, 1; 2000 GE₂₅ *, 8, 2, 1; 2000 GF₂₅ *, 9, 2, 1; 2000 GG₂₅ *, 8, 2, 1; 2000 GH₂₅ *, 9, 2, 1; 2000 GJ₂₅ *, 9, 2, 1; 2000 GK₂₅ *, 8, 2, 1; 2000 GL₂₅ *, 9, 2, 1; 2000 GM₂₅ *, 10, 2, 1; 2000 GN₂₅ *, 10, 2, 1; 2000 GO₂₅ *, 10, 2, 1; 2000 GP₂₅ *, 9, 2, 1; 2000 GQ₂₅ *, 25, 5, 5; 2000 GR₂₅ *, 9, 2, 1; 2000 GS₂₅ *, 29, 5, 5; 2000 GT₂₅ *, 28, 5, 5; 2000 GU₂₅ *, 10, 2, 1; 2000 GV₂₅ *, 10, 2, 1; 2000 GW₂₅ *, 10, 2, 1; 2000 GX₂₅ *, 8, 2, 1; 2000 GY₂₅ *, 14, 3, 2; 2000 GZ₂₅ *, 10, 2, 1; 2000 GA₂₆ *, 8, 2, 1; 2000 GB₂₆ *, 10, 2, 1; 2000 GC₂₆ *, 10, 2, 1; 2000 GD₂₆ *, 10, 2, 1; 2000 GE₂₆ *, 10, 2, 1; 2000 GF₂₆ *, 10, 2, 1; 2000 GG₂₆ *, 9, 2, 1; 2000 GH₂₆ *, 9, 2, 1; 2000 GJ₂₆ *, 9, 2, 1; 2000 GK₂₆ *, 13, 3, 5; 2000 GL₂₆ *, 8, 2, 1; 2000 GM₂₆ *, 15, 3, 5; 2000 GN₂₆ *, 18, 4, 5; 2000 GO₂₆ *, 14, 3, 5; 2000 GP₂₆ *, 12, 3, 5; 2000 GQ₂₆ *, 8, 2, 1; 2000 GR₂₆ *, 19, 4, 5; 2000 GS₂₆ *, 20, 4, 5; 2000 GT₂₆ *, 8, 2, 1; 2000 GU₂₆ *, 13, 3, 5; 2000 GV₂₆ *, 19, 4, 5; 2000 GW₂₆ *, 8, 2, 1; 2000 GX₂₆ *, 9, 2, 1; 2000 GY₂₆ *, 10, 2, 1; 2000 GZ₂₆ *, 10, 2, 1; 2000 GA₂₇ *, 10, 2, 1; 2000 GB₂₇ *, 8, 2, 1; 2000 GC₂₇ *, 9, 2, 2; 2000 GD₂₇ *, 13, 3, 2; 2000 GE₂₇ *, 20, 4, 5; 2000 GF₂₇ *, 8, 2, 1; 2000 GH₂₇ *, 9, 2, 1; 2000 GI₂₇ *, 15, 3, 2; 2000 GJ₂₇ *, 9, 2, 1; 2000 GK₂₇ *, 10, 2, 1; 2000 GL₂₇ *, 8, 2, 1; 2000 GM₂₇ *, 33, 6, 9; 2000 GN₂₇ *, 18, 4, 5; 2000 GO₂₇ *, 8, 2, 1; 2000 GP₂₇ *, 9, 2, 1; 2000 GQ₂₇ *, 33, 5, 5; 2000 GR₂₇ *, 9, 2, 1; 2000 GS₂₇ *, 14, 2, 1; 2000 GT₂₇ *, 14, 3, 2; 2000 GU₂₇ *, 14, 3, 2; 2000 GV₂₇ *, 10, 2, 1; 2000 GW₂₇ *, 10, 2, 1; 2000 GX₂₇ *, 39, 7, 36; 2000 GY₂₇ *, 27, 5, 5; 2000 GZ₂₇ *, 9, 2, 1; 2000 GA₂₈ *, 9, 2, 1; 2000 GB₂₈ *, 8, 2, 1; 2000 GC₂₈ *, 9, 2, 1; 2000 GD₂₈ *, 7, 2, 1; 2000 GE₂₈ *, 10, 2, 1; 2000 GF₂₈ *, 28, 4, 3; 2000 GG₂₈ *, 10, 2, 1; 2000 GH₂₈ *, 30, 5, 5; 2000 GI₂₈ *, 20, 4, 3; 2000 GJ₂₈ *, 8, 2, 1; 2000 GK₂₈ *, 10, 2, 1; 2000 GL₂₈ *, 10, 2, 1; 2000 GM₂₈ *, 24, 5, 5; 2000 GN₂₈ *, 25, 4, 3; 2000 GO₂₈ *, 10, 2, 1; 2000 GP₂₈ *, 9, 2, 1; 2000 GQ₂₈ *, 10, 2, 1; 2000 GR₂₈ *, 9, 2, 1; 2000 GS₂₈ *, 10, 2, 1; 2000 GT₂₈ *, 25, 5, 5; 2000 GU₂₈ *, 24, 5, 5; 2000 GV₂₈ *, 10, 2, 1; 2000 GW₂₈ *, 8, 2, 1; 2000 GX₂₈ *, 14, 3, 2; 2000 GY₂₈ *, 15, 3, 2; 2000 GZ₂₈ *, 17, 4, 5; 2000 GA₂₉ *, 14, 3, 5; 2000 GB₂₉ *, 10, 2, 1; 2000 GC₂₉ *, 10, 2, 1; 2000 GD₂₉ *, 8, 2, 1; 2000 GE₂₉ *, 19, 4, 3; 2000 GF₂₉ *, 20, 4, 3; 2000 GG₂₉ *, 24, 5, 5; 2000 GH₂₉ *, 10, 2, 1; 2000 GI₂₉ *, 10, 2, 1; 2000 GJ₂₉ *, 9, 2, 1; 2000 GK₂₉ *, 9, 2, 1; 2000 GL₂₉ *, 9, 2, 1; 2000 GM₂₉ *, 14, 3, 2; 2000 GN₂₉ *, 9, 2, 1; 2000 GO₂₉ *, 18, 4, 3; 2000 GP₂₉ *, 10, 2, 2; 2000 GQ₂₉ *, 20, 4, 3; 2000 GR₂₉ *, 9, 2, 1; 2000 GS₂₉ *, 10, 2, 1; 2000 GT₂₉ *, 10, 2, 1; 2000 GU₂₉ *, 25, 5, 5; 2000 GV₂₉ *, 9, 2, 1; 2000 GW₂₉ *, 9, 2, 1; 2000 GX₂₉ *, 10, 2, 1; 2000 GY₂₉ *, 10, 2, 1; 2000 GZ₂₉ *, 10, 2, 1; 2000 GA₃₀ *, 25, 5, 5; 2000 GB₃₀ *, 27, 5, 5; 2000 GC₃₀ *, 29, 5, 9; 2000 GD₃₀ *, 7, 2, 1; 2000 GE₃₀ *, 9, 2, 1; 2000 GF₃₀ *, 9, 2, 1; 2000 GG₃₀ *, 9, 2, 1; 2000 GH₃₀ *, 9, 2, 1; 2000 GI₃₀ *, 9, 2, 1; 2000 GK₃₀ *, 9, 2, 1; 2000 GL₃₀ *, 9, 2, 1; 2000 GM₃₀ *, 7, 2, 1; 2000 GN₃₀ *, 10, 2, 1; 2000 GO₃₀ *, 7, 2, 1; 2000 GP₃₀ *, 9, 2, 1; 2000 GQ₃₀ *, 17, 4, 3; 2000 GR₃₀ *, 9, 2, 1; 2000 GS₃₀ *, 15, 2, 1; 2000 GT₃₀ *, 9, 2, 1; 2000 GU₃₀ *, 9, 2, 1; 2000 GV₃₀ *, 9, 2, 1; 2000 GW₃₀ *, 14, 3, 2; 2000 GX₃₀ *, 9, 2, 1; 2000 GY₃₀ *, 8, 2, 1; 2000 GZ₃₀ *, 23, 5, 32; 2000 GA₃₁ *, 9, 2, 2; 2000 GB₃₁ *, 14, 3, 2; 2000 GC₃₁ *, 20, 4, 5; 2000 GD₃₁ *, 10, 2, 1; 2000 GE₃₁ *, 17, 4, 5; 2000 GF₃₁ *, 20, 4, 5; 2000 GG₃₁ *, 9, 2, 1; 2000 GH₃₁ *, 8, 2, 1; 2000 GJ₃₁ *, 10, 2, 1; 2000 GK₃₁ *, 10, 2, 1; 2000 GL₃₁ *, 10, 2, 1; 2000 GM₃₁ *, 19, 4, 5; 2000 GN₃₁ *, 16, 4, 5; 2000 GO₃₁ *, 8, 2, 1; 2000 GP₃₁ *, 13, 3, 5; 2000 GQ₃₁ *, 9, 2, 1; 2000 GR₃₁ *, 10, 2, 1; 2000 GS₃₁ *, 10, 2, 1; 2000 GT₃₁ *, 10, 2, 1; 2000 GU₃₁ *, 9, 2, 1; 2000 GV₃₁ *, 9, 2, 1; 2000 GW₃₁ *, 8, 2, 1; 2000 GX₃₁ *, 10, 2, 1; 2000 GY₃₁ *, 9, 2, 1; 2000 GZ₃₁ *, 9, 2, 1; 2000 GA₃₂ *, 10, 2, 1; 2000 GB₃₂ *, 9, 2, 1; 2000 GC₃₂ *, 8, 2, 1; 2000 GD₃₂ *, 10, 2, 1; 2000 GE₃₂ *, 10, 2, 1; 2000 GF₃₂ *, 9, 2, 1; 2000 GG₃₂ *, 8, 2, 1; 2000 GH₃₂ *, 10, 2, 1; 2000 GJ₃₂ *, 16, 4, 5; 2000 GK₃₂ *, 10, 2, 1; 2000 GL₃₂ *, 8, 2, 1; 2000 GM₃₂ *, 10, 2, 1; 2000 GN₃₂ *, 10, 2, 1; 2000 GO₃₂ *, 10, 2, 1; 2000 GP₃₂ *, 9, 2, 1; 2000 GQ₃₂ *, 19, 4, 5; 2000 GR₃₂ *, 15, 3, 2; 2000 GS₃₂ *, 21, 4, 5; 2000 GT₃₂ *, 23, 4, 5; 2000 GU₃₂ *, 8, 2, 1; 2000 GV₃₂ *, 9, 2, 1; 2000 GW₃₂ *, 10, 2, 1; 2000 GX₃₂ *, 10, 2, 1; 2000 GY₃₂ *, 8, 2, 1; 2000 GZ₃₂ *, 9, 2, 1; 2000 GA₃₃ *, 10, 2, 1; 2000 GB₃₃ *, 9, 2, 1; 2000 GC₃₃ *, 15, 4, 3; 2000 GD₃₃ *, 10, 2, 1; 2000 GE₃₃ *, 9, 2, 1; 2000 GF₃₃ *, 24, 5, 5; 2000 GG₃₃ *, 18, 4, 5; 2000 GH₃₃ *, 18, 4, 5; 2000 GI₃₃ *, 24, 5, 5; 2000 GK₃₃ *, 10, 2, 1; 2000 GL₃₃ *, 40, 6, 9; 2000 GM₃₃ *, 10, 2, 1; 2000 GN₃₃ *,

2; 2000 GD₃₆ *, 26, 4, 3; 2000 GE₃₆ *, 18, 3, 2; 2000 GF₃₆ *, 25, 4, 5; 2000 GG₃₆ *, 7, 2, 1; 2000 GH₃₆ *, 8, 2, 1; 2000 GJ₃₆ *, 8, 2, 1; 2000 GK₃₆ *, 8, 2, 1; 2000 GL₃₆ *, 9, 2, 1; 2000 GM₃₆ *, 7, 2, 1; 2000 GN₃₆ *, 8, 2, 1; 2000 GO₃₆ *, 20, 4, 3; 2000 GP₃₆ *, 23, 4, 5; 2000 GQ₃₆ *, 12, 3, 2; 2000 GR₃₆ *, 7, 2, 1; 2000 GS₃₆ *, 8, 2, 2; 2000 GT₃₆ *, 7, 2, 1; 2000 GU₃₆ *, 23, 4, 5; 2000 GV₃₆ *, 7, 2, 1; 2000 GW₃₆ *, 9, 2, 1; 2000 GX₃₆ *, 12, 3, 2; 2000 GY₃₆ *, 23, 5, 5; 2000 GZ₃₆ *, 9, 2, 1; 2000 GA₃₇ *, 9, 2, 1; 2000 GB₃₇ *, 7, 2, 1; 2000 GC₃₇ *, 7, 2, 1; 2000 GD₃₇ *, 8, 2, 1; 2000 GE₃₇ *, 7, 2, 1; 2000 GF₃₇ *, 8, 2, 1; 2000 GG₃₇ *, 20, 4, 8; 2000 GH₃₇ *, 7, 2, 1; 2000 GJ₃₇ *, 7, 2, 2; 2000 GK₃₇ *, 8, 2, 1; 2000 GL₃₇ *, 6, 2, 1; 2000 GM₃₇ *, 8, 2, 1; 2000 GN₃₇ *, 12, 2, 1; 2000 GO₃₇ *, 6, 2, 1; 2000 GP₃₇ *, 12, 2, 1; 2000 GQ₃₇ *, 13, 2, 1; 2000 GR₃₇ *, 12, 2, 1; 2000 GS₃₇ *, 11, 2, 1; 2000 GT₃₇ *, 12, 2, 1; 2000 GU₃₇ *, 8, 2, 1; 2000 GV₃₇ *, 7, 2, 1; 2000 GW₃₇ *, 18, 3, 2; 2000 GX₃₇ *, 6, 2, 1; 2000 GY₃₇ *, 7, 2, 1; 2000 GZ₃₇ *, 12, 3, 5; 2000 GA₃₈ *, 14, 3, 5; 2000 GB₃₈ *, 9, 2, 1; 2000 GC₃₈ *, 13, 3, 5; 2000 GD₃₈ *, 20, 4, 5; 2000 GE₃₈ *, 7, 2, 1; 2000 GF₃₈ *, 9, 2, 1; 2000 GG₃₈ *, 9, 2, 1; 2000 GH₃₈ *, 9, 2, 1; 2000 GJ₃₈ *, 16, 4, 5; 2000 GK₃₈ *, 9, 2, 1; 2000 GL₃₈ *, 15, 3, 2; 2000 GM₃₈ *, 9, 2, 1; 2000 GN₃₈ *, 12, 3, 5; 2000 GO₃₈ *, 15, 3, 2; 2000 GP₃₈ *, 20, 4, 5; 2000 GQ₃₈ *, 15, 3, 2; 2000 GR₃₈ *, 10, 2, 1; 2000 GS₃₈ *, 9, 2, 1; 2000 GT₃₈ *, 19, 4, 5; 2000 GU₃₈ *, 8, 2, 1; 2000 GV₃₈ *, 15, 3, 5; 2000 GW₃₈ *, 8, 2, 1; 2000 GX₃₈ *, 20, 4, 5; 2000 GY₃₈ *, 20, 4, 5; 2000 GZ₃₈ *, 10, 2, 1; 2000 GA₃₉ *, 9, 2, 1; 2000 GB₃₉ *, 20, 4, 5; 2000 GC₃₉ *, 19, 4, 5; 2000 GD₃₉ *, 18, 4, 5; 2000 GE₃₉ *, 14, 3, 5; 2000 GF₃₉ *, 9, 2, 1; 2000 GG₃₉ *, 9, 2, 1; 2000 GH₃₉ *, 10, 2, 2; 2000 GJ₃₉ *, 9, 2, 1; 2000 GK₃₉ *, 10, 2, 1; 2000 GL₃₉ *, 15, 3, 2; 2000 GM₃₉ *, 10, 2, 1; 2000 GN₃₉ *, 15, 3, 2; 2000 GO₃₉ *, 6, 2, 1; 2000 GP₃₉ *, 12, 3, 2; 2000 GQ₃₉ *, 23, 5, 5; 2000 GR₃₉ *, 20, 5, 5; 2000 GS₃₉ *, 9, 2, 1; 2000 GT₃₉ *, 8, 2, 1; 2000 GU₃₉ *, 7, 2, 1; 2000 GV₃₉ *, 8, 2, 1; 2000 GW₃₉ *, 10, 2, 1; 2000 GX₃₉ *, 23, 4, 5; 2000 GY₃₉ *, 13, 2, 1; 2000 GZ₃₉ *, 13, 2, 1; 2000 GA₄₀ *, 12, 2, 1; 2000 GB₄₀ *, 15, 2, 1; 2000 GC₄₀ *, 25, 4, 5; 2000 GD₄₀ *, 30, 6, 9; 2000 GE₄₀ *, 6, 2, 1; 2000 GF₄₀ *, 17, 4, 5; 2000 GG₄₀ *, 25, 4, 5; 2000 GH₄₀ *, 7, 2, 2; 2000 GJ₄₀ *, 34, 6, 9; 2000 GK₄₀ *, 10, 2, 1; 2000 GL₄₀ *, 42, 8, 9; 2000 GM₄₀ *, 29, 5, 9; 2000 GN₄₀ *, 15, 2, 1; 2000 GO₄₀ *, 14, 2, 1; 2000 GP₄₀ *, 9, 2, 1; 2000 GQ₄₀ *, 30, 5, 5; 2000 GR₄₀ *, 10, 2, 1; 2000 GS₄₀ *, 28, 5, 5; 2000 GT₄₀ *, 30, 5, 5; 2000 GU₄₀ *, 8, 2, 1; 2000 GV₄₀ *, 9, 2, 1; 2000 GW₄₀ *, 14, 2, 1; 2000 GX₄₀ *, 8, 2, 1; 2000 GY₄₀ *, 9, 2, 1; 2000 GZ₄₀ *, 10, 2, 1; 2000 GA₄₁ *, 18, 2, 1; 2000 GB₄₁ *, 10, 2, 1; 2000 GC₄₁ *, 10, 2, 1; 2000 GD₄₁ *, 9, 2, 1; 2000 GE₄₁ *, 10, 2, 1; 2000 GF₄₁ *, 7, 2, 1; 2000 GG₄₁ *, 10, 2, 1; 2000 GH₄₁ *, 19, 4, 3; 2000 GJ₄₁ *, 21, 5, 5; 2000 GK₄₁ *, 7, 2, 1; 2000 GL₄₁ *, 22, 4, 3; 2000 GM₄₁ *, 9, 2, 1; 2000 GN₄₁ *, 25, 4, 5; 2000 GO₄₁ *, 8, 2, 1; 2000 GP₄₁ *, 30, 5, 5; 2000 GQ₄₁ *, 9, 2, 1; 2000 GR₄₁ *, 9, 2, 1; 2000 GS₄₁ *, 9, 2, 1; 2000 GT₄₁ *, 9, 2, 1; 2000 GU₄₁ *, 25, 5, 5; 2000 GV₄₁ *, 25, 5, 5; 2000 GW₄₁ *, 8, 2, 1; 2000 GX₄₁ *, 9, 2, 1; 2000 GY₄₁ *, 17, 4, 5; 2000 GZ₄₁ *, 13, 3, 2; 2000 GA₄₂ *, 10, 2, 1; 2000 GB₄₂ *, 11, 3, 2; 2000 GC₄₂ *, 9, 2, 1; 2000 GD₄₂ *, 9, 2, 1; 2000 GE₄₂ *, 8, 2, 1; 2000 GF₄₂ *, 10, 2, 1; 2000 GG₄₂ *, 9, 2, 1; 2000 GH₄₂ *, 9, 2, 1; 2000 GJ₄₂ *, 8, 2, 1; 2000 GK₄₂ *, 8, 2, 1; 2000 GL₄₂ *, 9, 2, 1; 2000 GM₄₂ *, 8, 2, 1; 2000 GN₄₂ *, 10, 2, 1; 2000 GO₄₂ *, 8, 2, 1; 2000 GP₄₂ *, 9, 2, 1; 2000 GQ₄₂ *, 9, 2, 1; 2000 GR₄₂ *, 10, 2, 1; 2000 GS₄₂ *, 20, 4, 3; 2000 GT₄₂ *, 9, 2, 1; 2000 GU₄₂ *, 9, 2, 1; 2000 GV₄₂ *, 8, 2, 2; 2000 GW₄₂ *, 10, 2, 1; 2000 GX₄₂ *, 10, 2, 1; 2000 GY₄₂ *, 14, 3, 2; 2000 GZ₄₂ *, 8, 2, 1; 2000 GA₄₃ *, 10, 2, 1; 2000 GB₄₃ *, 10, 2, 1; 2000 GC₄₃ *, 10, 2, 1; 2000 GD₄₃ *, 9, 2, 1; 2000 GE₄₃ *, 7, 2, 1; 2000 GF₄₃ *, 10, 2, 1; 2000 GG₄₃ *, 8, 2, 1; 2000 GH₄₃ *, 10, 2, 1; 2000 GJ₄₃ *, 8, 2, 1; 2000 GK₄₃ *, 14, 3, 5; 2000 GL₄₃ *, 14, 3, 5; 2000 GM₄₃ *, 10, 2, 1; 2000 GN₄₃ *, 8, 2, 1; 2000 GO₄₃ *, 10, 2, 1; 2000 GP₄₃ *, 19, 4, 5; 2000 GQ₄₃ *, 28, 6, 7; 2000 GR₄₃ *, 10, 2, 1; 2000 GS₄₃ *, 14, 3, 2; 2000 GT₄₃ *, 13, 3, 2; 2000 GU₄₃ *, 9, 2, 1; 2000 GV₄₃ *, 12, 3, 2; 2000 GW₄₃ *, 18, 4, 5; 2000 GX₄₃ *, 10, 2, 1; 2000 GY₄₃ *, 15, 3, 2; 2000 GZ₄₃ *, 10, 2, 1; 2000 GA₄₄ *, 23, 5, 7; 2000 GB₄₄ *, 10, 2, 1; 2000 GC₄₄ *, 14, 3, 5; 2000 GD₄₄ *, 10, 2, 1; 2000 GE₄₄ *, 10, 2, 1; 2000 GF₄₄ *, 10, 2, 1; 2000 GG₄₄ *, 8, 2, 1; 2000 GH₄₄ *, 8, 2, 1; 2000 GJ₄₄ *, 10, 2, 1; 2000 GK₄₄ *, 8, 2, 1; 2000 GL₄₄ *, 8, 2, 1; 2000 GM₄₄ *, 10, 2, 1; 2000 GN₄₄ *, 21, 5, 5; 2000 GO₄₄ *, 23, 5, 9; 2000 GP₄₄ *, 30, 5, 5; 2000 GQ₄₄ *, 20, 4, 5; 2000 GR₄₄ *, 28, 6, 505; 2000 GS₄₄ *, 12, 3, 5; 2000 GT₄₄ *, 19, 4, 5; 2000 GU₄₄ *, 13, 3, 5; 2000 GV₄₄ *, 8, 2, 1; 2000 GW₄₄ *, 8, 2, 1; 2000 GX₄₄ *, 10, 2, 1; 2000 GY₄₄ *, 10, 2, 1; 2000 GZ₄₄ *, 8, 2, 1; 2000 GA₄₅ *, 13, 3, 2; 2000 GB₄₅ *, 7, 2, 1; 2000 GC₄₅ *, 7, 2, 1; 2000 GD₄₅ *, 14, 3, 5; 2000 GE₄₅ *, 15, 3, 5; 2000 GF₄₅ *, 10, 2, 1; 2000 GG₄₅ *, 19, 4, 5; 2000 GH₄₅ *, 10, 2, 1; 2000 GJ₄₅ *, 9, 2, 1; 2000 GK₄₅ *, 18, 4, 5; 2000 GL₄₅ *, 9, 2, 2; 2000 GM₄₅ *, 10, 2, 1; 2000 GN₄₅ *, 13, 3, 5; 2000 GO₄₅ *, 9, 2, 1; 2000 GP₄₅ *, 19, 4, 5; 2000 GQ₄₅ *, 10, 2, 2; 2000 GR₄₅ *, 14, 3, 2; 2000 GS₄₅ *, 20, 4, 5; 2000 GT₄₅ *, 8, 2, 1; 2000 GU₄₅ *, 8, 2, 1; 2000 GV₄₅ *, 13, 3, 2; 2000 GW₄₅ *, 14, 3, 2; 2000 GX₄₅ *, 10, 2, 1; 2000 GY₄₅ *, 13, 2, 1; 2000 GZ₄₅ *, 10, 2, 1; 2000 GA₄₆ *, 13, 3, 2; 2000 GB₄₆ *, 9, 2, 1; 2000 GC₄₆ *, 15, 3, 2; 2000 GD₄₆ *, 9, 2, 1; 2000 GE₄₆ *, 10, 2, 1; 2000 GF₄₆ *, 10, 2, 1; 2000 GG₄₆ *, 10, 2, 1; 2000 GH₄₆ *, 10, 2, 1; 2000 GJ₄₆ *, 10, 2, 1; 2000 GK₄₆ *, 10, 2, 1; 2000 GL₄₆ *, 8, 2, 2; 2000 GM₄₆ *, 9, 2, 1; 2000 GN₄₆ *, 17, 4, 3; 2000 GO₄₆ *, 10, 2, 1; 2000 GP₄₆ *, 10, 2, 1; 2000 GQ₄₆ *, 10, 2, 1; 2000 GR₄₆ *, 10, 2, 1; 2000 GS₄₆ *, 10, 2, 1; 2000 GT₄₆ *, 10, 2, 1; 2000 GU₄₆ *, 10, 2, 1; 2000 GV₄₆ *, 9, 2, 1; 2000 GW₄₆ *, 9, 2, 1; 2000 GX₄₆ *, 20, 4, 5; 2000 GY₄₆ *, 10, 2, 1; 2000 GZ₄₆ *, 24, 5, 5; 2000 GA₄₇ *, 23, 5, 5; 2000 GB₄₇ *, 9, 2, 1; 2000 GC₄₇ *, 10, 2, 1; 2000 GD₄₇ *, 9, 2, 1; 2000 GE₄₇ *, 10, 2, 1; 2000 GF₄₇ *, 17, 4, 5; 2000 GG₄₇ *, 10, 2, 1;

2000 GH₄₇ *, 10, 2, 1; 2000 GJ₄₇ *, 10, 2, 1; 2000 GK₄₇ *, 20, 4, 3; 2000 GL₄₇ *, 9, 2, 1; 2000 GM₄₇ *, 24, 5, 5; 2000 GN₄₇ *, 10, 2, 1; 2000 GO₄₇ *, 19, 4, 3; 2000 GP₄₇ *, 7, 2, 1; 2000 GQ₄₇ *, 10, 2, 1; 2000 GR₄₇ *, 8, 2, 1; 2000 GS₄₇ *, 10, 2, 1; 2000 GT₄₇ *, 10, 2, 1; 2000 GU₄₇ *, 8, 2, 1; 2000 GV₄₇ *, 10, 2, 1; 2000 GW₄₇ *, 10, 2, 1; 2000 GX₄₇ *, 9, 2, 1; 2000 GY₄₇ *, 10, 2, 1; 2000 GZ₄₇ *, 8, 2, 1; 2000 GA₄₈ *, 9, 2, 1; 2000 GB₄₈ *, 10, 2, 1; 2000 GC₄₈ *, 10, 2, 1; 2000 GD₄₈ *, 9, 2, 1; 2000 GE₄₈ *, 10, 2, 1; 2000 GF₄₈ *, 34, 5, 5; 2000 GG₄₈ *, 25, 5, 5; 2000 GH₄₈ *, 24, 5, 5; 2000 GJ₄₈ *, 17, 4, 5; 2000 GK₄₈ *, 10, 2, 1; 2000 GL₄₈ *, 9, 2, 1; 2000 GM₄₈ *, 18, 4, 3; 2000 GN₄₈ *, 10, 2, 1; 2000 GO₄₈ *, 22, 5, 5; 2000 GP₄₈ *, 8, 2, 1; 2000 GQ₄₈ *, 9, 2, 1; 2000 GR₄₈ *, 10, 2, 1; 2000 GS₄₈ *, 9, 2, 1; 2000 GT₄₈ *, 16, 4, 5; 2000 GU₄₈ *, 24, 5, 5; 2000 GV₄₈ *, 18, 4, 3; 2000 GW₄₈ *, 10, 2, 1; 2000 GX₄₈ *, 10, 2, 1; 2000 GY₄₈ *, 10, 2, 1; 2000 GZ₄₈ *, 10, 2, 1; 2000 GA₄₉ *, 9, 2, 1; 2000 GB₄₉ *, 22, 5, 5; 2000 GC₄₉ *, 13, 3, 5; 2000 GD₄₉ *, 10, 2, 1; 2000 GE₄₉ *, 18, 4, 3; 2000 GF₄₉ *, 9, 2, 1; 2000 GG₄₉ *, 20, 4, 3; 2000 GH₄₉ *, 10, 2, 1; 2000 GJ₄₉ *, 9, 2, 1; 2000 GK₄₉ *, 21, 5, 5; 2000 GL₄₉ *, 10, 2, 1; 2000 GM₄₉ *, 10, 2, 1; 2000 GN₄₉ *, 8, 2, 2; 2000 GO₄₉ *, 8, 2, 1; 2000 GP₄₉ *, 10, 2, 1; 2000 GQ₄₉ *, 8, 2, 1; 2000 GR₄₉ *, 10, 2, 1; 2000 GS₄₉ *, 8, 2, 1; 2000 GT₄₉ *, 10, 2, 1; 2000 GU₄₉ *, 10, 2, 1; 2000 GV₄₉ *, 10, 2, 1; 2000 GW₄₉ *, 10, 2, 1; 2000 GX₄₉ *, 8, 2, 1; 2000 GY₄₉ *, 20, 4, 21; 2000 GZ₄₉ *, 7, 2, 1; 2000 GA₅₀ *, 10, 2, 1; 2000 GB₅₀ *, 9, 2, 1; 2000 GC₅₀ *, 9, 2, 1; 2000 GD₅₀ *, 10, 2, 1; 2000 GE₅₀ *, 10, 2, 1; 2000 GF₅₀ *, 9, 2, 1; 2000 GG₅₀ *, 10, 2, 1; 2000 GH₅₀ *, 10, 2, 1; 2000 GJ₅₀ *, 9, 2, 1; 2000 GK₅₀ *, 8, 2, 1; 2000 GL₅₀ *, 10, 2, 1; 2000 GM₅₀ *, 10, 2, 1; 2000 GN₅₀ *, 10, 2, 1; 2000 GO₅₀ *, 10, 2, 1; 2000 GP₅₀ *, 8, 2, 1; 2000 GQ₅₀ *, 10, 2, 1; 2000 GR₅₀ *, 8, 2, 1; 2000 GS₅₀ *, 10, 2, 1; 2000 GT₅₀ *, 10, 2, 2; 2000 GU₅₀ *, 8, 2, 1; 2000 GV₅₀ *, 9, 2, 1; 2000 GW₅₀ *, 6, 2, 1; 2000 GX₅₀ *, 10, 2, 1; 2000 GY₅₀ *, 10, 2, 1; 2000 GZ₅₀ *, 9, 2, 1; 2000 GA₅₁ *, 8, 2, 1; 2000 GB₅₁ *, 10, 2, 2; 2000 GC₅₁ *, 20, 4, 3; 2000 GD₅₁ *, 10, 2, 1; 2000 GE₅₁ *, 10, 2, 1; 2000 GF₅₁ *, 10, 2, 1; 2000 GH₅₁ *, 10, 2, 1; 2000 GJ₅₁ *, 9, 2, 1; 2000 GK₅₁ *, 10, 2, 1; 2000 GL₅₁ *, 10, 2, 1; 2000 GM₅₁ *, 9, 2, 1; 2000 GN₅₁ *, 10, 2, 1; 2000 GO₅₁ *, 9, 2, 1; 2000 GP₅₁ *, 9, 2, 1; 2000 GQ₅₁ *, 9, 2, 1; 2000 GR₅₁ *, 17, 4, 59; 2000 GS₅₁ *, 10, 2, 1; 2000 GT₅₁ *, 10, 2, 1; 2000 GU₅₁ *, 10, 2, 1; 2000 GV₅₁ *, 10, 2, 1; 2000 GW₅₁ *, 10, 2, 1; 2000 GX₅₁ *, 18, 4, 3; 2000 GY₅₁ *, 15, 3, 2; 2000 GZ₅₁ *, 18, 4, 3; 2000 GA₅₂ *, 10, 2, 1; 2000 GB₅₂ *, 15, 3, 2; 2000 GC₅₂ *, 15, 3, 2; 2000 GD₅₂ *, 15, 3, 2; 2000 GE₅₂ *, 10, 2, 1; 2000 GF₅₂ *, 24, 5, 5; 2000 GG₅₂ *, 9, 2, 1; 2000 GH₅₂ *, 10, 2, 1; 2000 GJ₅₂ *, 9, 2, 1; 2000 GK₅₂ *, 18, 3, 2; 2000 GL₅₂ *, 10, 2, 1; 2000 GM₅₂ *, 10, 2, 1; 2000 GN₅₂ *, 9, 2, 1; 2000 GO₅₂ *, 10, 2, 1; 2000 GP₅₂ *, 24, 5, 5; 2000 GQ₅₂ *, 27, 6, 24; 2000 GR₅₂ *, 10, 2, 1; 2000 GS₅₂ *, 9, 2, 1; 2000 GT₅₂ *, 8, 2, 1; 2000 GU₅₂ *, 13, 3, 5; 2000 GV₅₂ *, 18, 4, 5; 2000 GW₅₂ *, 32, 7, 8; 2000 GX₅₂ *, 10, 2, 1; 2000 GY₅₂ *, 10, 2, 1; 2000 GZ₅₂ *, 14, 3, 8; 2000 GA₅₃ *, 9, 2, 1; 2000 GB₅₃ *, 26, 6, 27; 2000 GC₅₃ *, 10, 2, 1; 2000 GD₅₃ *, 16, 4, 5; 2000 GE₅₃ *, 10, 2, 1; 2000 GF₅₃ *, 8, 2, 1; 2000 GG₅₃ *, 20, 4, 3; 2000 GH₅₃ *, 10, 2, 1; 2000 GJ₅₃ *, 10, 2, 1; 2000 GK₅₃ *, 10, 2, 1; 2000 GL₅₃ *, 10, 2, 1; 2000 GM₅₃ *, 10, 2, 1; 2000 GN₅₃ *, 10, 2, 1; 2000 GO₅₃ *, 10, 2, 1; 2000 GP₅₃ *, 14, 3, 24; 2000 GQ₅₃ *, 10, 2, 1; 2000 GR₅₃ *, 8, 2, 1; 2000 GS₅₃ *, 9, 2, 1; 2000 GT₅₃ *, 10, 2, 1; 2000 GU₅₃ *, 10, 2, 1; 2000 GV₅₃ *, 8, 2, 1; 2000 GW₅₃ *, 9, 2, 1; 2000 GX₅₃ *, 10, 2, 1; 2000 GY₅₃ *, 9, 2, 1; 2000 GZ₅₃ *, 10, 2, 1; 2000 GA₅₄ *, 9, 2, 1; 2000 GB₅₄ *, 10, 2, 1; 2000 GC₅₄ *, 10, 2, 1; 2000 GD₅₄ *, 10, 2, 1; 2000 GE₅₄ *, 8, 2, 1; 2000 GF₅₄ *, 9, 2, 1; 2000 GG₅₄ *, 10, 2, 1; 2000 GH₅₄ *, 9, 2, 1; 2000 GJ₅₄ *, 9, 2, 1; 2000 GK₅₄ *, 10, 2, 1; 2000 GL₅₄ *, 10, 2, 1; 2000 GM₅₄ *, 10, 2, 1; 2000 GN₅₄ *, 10, 2, 1; 2000 GO₅₄ *, 23, 5, 5; 2000 GP₅₄ *, 13, 3, 3; 2000 GQ₅₄ *, 10, 2, 1; 2000 GR₅₄ *, 13, 3, 2; 2000 GS₅₄ *, 10, 2, 1; 2000 GT₅₄ *, 20, 4, 3; 2000 GU₅₄ *, 14, 3, 2; 2000 GV₅₄ *, 8, 2, 1; 2000 GW₅₄ *, 11, 3, 2; 2000 GX₅₄ *, 9, 2, 1; 2000 GY₅₄ *, 8, 2, 1; 2000 GZ₅₄ *, 9, 2, 1; 2000 GA₅₅ *, 10, 2, 1; 2000 GB₅₅ *, 7, 2, 1; 2000 GC₅₅ *, 10, 2, 1; 2000 GD₅₅ *, 10, 2, 1; 2000 GE₅₅ *, 10, 2, 1; 2000 GF₅₅ *, 20, 4, 3; 2000 GG₅₅ *, 19, 4, 3; 2000 GH₅₅ *, 10, 2, 1; 2000 GJ₅₅ *, 9, 2, 2; 2000 GK₅₅ *, 9, 2, 1; 2000 GL₅₅ *, 9, 2, 1; 2000 GM₅₅ *, 10, 2, 1; 2000 GN₅₅ *, 14, 3, 2; 2000 GO₅₅ *, 10, 2, 1; 2000 GP₅₅ *, 10, 2, 1; 2000 GQ₅₅ *, 10, 2, 1; 2000 GR₅₅ *, 10, 2, 1; 2000 GS₅₅ *, 10, 2, 1; 2000 GT₅₅ *, 10, 2, 1; 2000 GU₅₅ *, 10, 2, 1; 2000 GV₅₅ *, 10, 2, 1; 2000 GW₅₅ *, 10, 2, 1; 200

2000 APR. 18

M.P.C. 39779

1; 2000 GB₅₈ *, 23, 5, 58; 2000 GC₅₈ *, 20, 4, 3; 2000 GD₅₈ *, 10, 2, 1; 2000 GE₅₈ *, 10, 2, 1; 2000 GF₅₈ *, 10, 2, 1; 2000 GG₅₈ *, 7, 2, 1; 2000 GH₅₈ *, 10, 2, 1; 2000 GJ₅₈ *, 15, 3, 2; 2000 GK₅₈ *, 20, 4, 3; 2000 GL₅₈ *, 10, 2, 1; 2000 GM₅₈ *, 10, 2, 1; 2000 GN₅₈ *, 10, 2, 1; 2000 GO₅₈ *, 19, 4, 3; 2000 GP₅₈ *, 9, 2, 1; 2000 GQ₅₈ *, 18, 4, 3; 2000 GR₅₈ *, 10, 2, 1; 2000 GS₅₈ *, 10, 2, 1; 2000 GT₅₈ *, 19, 4, 3; 2000 GU₅₈ *, 14, 2, 1; 2000 GV₅₈ *, 8, 2, 1; 2000 GW₅₈ *, 20, 4, 3; 2000 GX₅₈ *, 9, 2, 1; 2000 GY₅₈ *, 23, 4, 3; 2000 GZ₅₈ *, 9, 2, 1; 2000 GA₅₉ *, 19, 4, 3; 2000 GB₅₉ *, 25, 4, 3; 2000 GC₅₉ *, 22, 4, 3; 2000 GD₅₉ *, 10, 2, 1; 2000 GE₅₉ *, 10, 2, 1; 2000 GF₅₉ *, 10, 2, 1; 2000 GG₅₉ *, 10, 2, 1; 2000 GH₅₉ *, 8, 2, 1; 2000 GJ₅₉ *, 10, 2, 1; 2000 GK₅₉ *, 9, 2, 1; 2000 GL₅₉ *, 10, 2, 1; 2000 GM₅₉ *, 10, 2, 1; 2000 GN₅₉ *, 14, 3, 2; 2000 GO₅₉ *, 15, 3, 2; 2000 GP₅₉ *, 10, 2, 1; 2000 GQ₅₉ *, 10, 2, 1; 2000 GR₅₉ *, 10, 2, 1; 2000 GS₅₉ *, 13, 3, 2; 2000 GT₅₉ *, 10, 2, 1; 2000 GU₅₉ *, 12, 3, 2; 2000 GV₅₉ *, 10, 2, 1; 2000 GW₅₉ *, 9, 2, 1; 2000 GX₅₉ *, 9, 2, 1; 2000 GY₅₉ *, 17, 4, 57; 2000 GZ₅₉ *, 10, 2, 1; 2000 GA₆₀ *, 9, 2, 1; 2000 GB₆₀ *, 10, 2, 1; 2000 GC₆₀ *, 13, 3, 2; 2000 GD₆₀ *, 10, 2, 1; 2000 GE₆₀ *, 10, 2, 1; 2000 GF₆₀ *, 10, 2, 1; 2000 GG₆₀ *, 8, 2, 1; 2000 GH₆₀ *, 9, 2, 1; 2000 GJ₆₀ *, 14, 3, 2; 2000 GK₆₀ *, 9, 2, 1; 2000 GL₆₀ *, 24, 4, 3; 2000 GM₆₀ *, 10, 2, 1; 2000 GN₆₀ *, 10, 2, 1; 2000 GO₆₀ *, 14, 3, 2; 2000 GP₆₀ *, 17, 4, 3; 2000 GQ₆₀ *, 14, 3, 2; 2000 GR₆₀ *, 20, 4, 3; 2000 GS₆₀ *, 9, 2, 1; 2000 GT₆₀ *, 16, 3, 2; 2000 GU₆₀ *, 8, 2, 1; 2000 GV₆₀ *, 7, 2, 1; 2000 GW₆₀ *, 8, 2, 1; 2000 GX₆₀ *, 9, 2, 1; 2000 GY₆₀ *, 8, 2, 1; 2000 GZ₆₀ *, 8, 2, 1; 2000 GA₆₁ *, 7, 2, 1; 2000 GB₆₁ *, 26, 5, 5; 2000 GC₆₁ *, 9, 2, 1; 2000 GD₆₁ *, 9, 2, 1; 2000 GE₆₁ *, 9, 2, 1; 2000 GF₆₁ *, 9, 2, 1; 2000 GG₆₁ *, 8, 2, 1; 2000 GH₆₁ *, 8, 2, 1; 2000 GJ₆₁ *, 8, 2, 1; 2000 GK₆₁ *, 8, 2, 1; 2000 GL₆₁ *, 6, 2, 1; 2000 GM₆₁ *, 9, 2, 1; 2000 GN₆₁ *, 9, 2, 1; 2000 GO₆₁ *, 8, 2, 1; 2000 GP₆₁ *, 9, 2, 1; 2000 GQ₆₁ *, 9, 2, 1; 2000 GR₆₁ *, 8, 2, 1; 2000 GS₆₁ *, 9, 2, 1; 2000 GT₆₁ *, 9, 2, 1; 2000 GU₆₁ *, 8, 2, 1; 2000 GV₆₁ *, 7, 2, 1; 2000 GW₆₁ *, 7, 2, 1; 2000 GX₆₁ *, 8, 2, 1; 2000 GY₆₁ *, 7, 2, 1; 2000 GZ₆₁ *, 8, 2, 1; 2000 GA₆₂ *, 9, 2, 1; 2000 GB₆₂ *, 9, 2, 1; 2000 GC₆₂ *, 34, 8, 32; 2000 GD₆₂ *, 8, 2, 1; 2000 GE₆₂ *, 9, 2, 1; 2000 GF₆₂ *, 9, 2, 1; 2000 GG₆₂ *, 7, 2, 1; 2000 GH₆₂ *, 7, 2, 1; 2000 GJ₆₂ *, 8, 2, 1; 2000 GK₆₂ *, 8, 2, 1; 2000 GL₆₂ *, 9, 2, 1; 2000 GM₆₂ *, 9, 2, 1; 2000 GN₆₂ *, 8, 2, 1; 2000 GO₆₂ *, 13, 3, 2; 2000 GP₆₂ *, 9, 2, 1; 2000 GQ₆₂ *, 9, 2, 1; 2000 GR₆₂ *, 19, 4, 3; 2000 GS₆₂ *, 7, 2, 1; 2000 GT₆₂ *, 9, 2, 1; 2000 GU₆₂ *, 8, 2, 1; 2000 GV₆₂ *, 7, 2, 1; 2000 GW₆₂ *, 7, 2, 1; 2000 GX₆₂ *, 8, 2, 1; 2000 GY₆₂ *, 8, 2, 1; 2000 GZ₆₂ *, 13, 3, 2; 2000 GA₆₃ *, 8, 2, 1; 2000 GB₆₃ *, 9, 2, 1; 2000 GC₆₃ *, 9, 2, 1; 2000 GD₆₃ *, 7, 2, 1; 2000 GE₆₃ *, 8, 2, 1; 2000 GF₆₃ *, 6, 2, 1; 2000 GG₆₃ *, 9, 2, 1; 2000 GH₆₃ *, 9, 2, 1; 2000 GJ₆₃ *, 7, 2, 1; 2000 GK₆₃ *, 7, 2, 1; 2000 GL₆₃ *, 8, 2, 1; 2000 GM₆₃ *, 8, 2, 1; 2000 GN₆₃ *, 9, 2, 1; 2000 GO₆₃ *, 8, 2, 1; 2000 GP₆₃ *, 8, 2, 1; 2000 GQ₆₃ *, 9, 2, 1; 2000 GR₆₃ *, 6, 2, 1; 2000 GS₆₃ *, 11, 2, 1; 2000 GT₆₃ *, 9, 2, 1; 2000 GU₆₃ *, 9, 2, 1; 2000 GV₆₃ *, 6, 2, 1; 2000 GW₆₃ *, 8, 2, 1; 2000 GX₆₃ *, 9, 2, 1; 2000 GY₆₃ *, 8, 2, 1; 2000 GZ₆₃ *, 8, 2, 1; 2000 GA₆₄ *, 8, 2, 1; 2000 GB₆₄ *, 7, 2, 1; 2000 GC₆₄ *, 8, 2, 1; 2000 GD₆₄ *, 8, 2, 1; 2000 GE₆₄ *, 8, 2, 1; 2000 GF₆₄ *, 12, 3, 5; 2000 GG₆₄ *, 7, 2, 1; 2000 GH₆₄ *, 6, 2, 1; 2000 GJ₆₄ *, 7, 2, 1; 2000 GK₆₄ *, 7, 2, 1; 2000 GL₆₄ *, 7, 2, 1; 2000 GM₆₄ *, 7, 2, 1; 2000 GN₆₄ *, 6, 2, 1; 2000 GO₆₄ *, 10, 3, 3; 2000 GP₆₄ *, 9, 2, 1; 2000 GQ₆₄ *, 10, 2, 1; 2000 GR₆₄ *, 8, 2, 1; 2000 GS₆₄ *, 10, 2, 1; 2000 GT₆₄ *, 15, 3, 2; 2000 GU₆₄ *, 10, 2, 1; 2000 GV₆₄ *, 8, 2, 1; 2000 GW₆₄ *, 15, 3, 2; 2000 GX₆₄ *, 8, 2, 1; 2000 GY₆₄ *, 8, 2, 1; 2000 GZ₆₄ *, 13, 3, 2; 2000 GA₆₅ *, 8, 2, 1; 2000 GB₆₅ *, 19, 4, 24; 2000 GC₆₅ *, 9, 2, 1; 2000 GD₆₅ *, 10, 2, 1; 2000 GE₆₅ *, 9, 2, 1; 2000 GF₆₅ *, 14, 3, 2; 2000 GG₆₅ *, 7, 2, 1; 2000 GH₆₅ *, 13, 3, 2; 2000 GJ₆₅ *, 10, 2, 1; 2000 GK₆₅ *, 9, 2, 1; 2000 GL₆₅ *, 9, 2, 2; 2000 GM₆₅ *, 9, 2, 1; 2000 GN₆₅ *, 9, 2, 1; 2000 GO₆₅ *, 10, 2, 1; 2000 GP₆₅ *, 8, 2, 1; 2000 GQ₆₅ *, 17, 4, 3; 2000 GR₆₅ *, 12, 3, 2; 2000 GS₆₅ *, 10, 2, 1; 2000 GT₆₅ *, 10, 2, 1; 2000 GU₆₅ *, 10, 2, 1; 2000 GV₆₅ *, 17, 4, 3; 2000 GW₆₅ *, 15, 4, 3; 2000 GX₆₅ *, 19, 4, 3; 2000 GY₆₅ *, 20, 4, 3; 2000 GZ₆₅ *, 20, 4, 3; 2000 GA₆₆ *, 9, 2, 1; 2000 GB₆₆ *, 9, 2, 1; 2000 GC₆₆ *, 9, 2, 1; 2000 GD₆₆ *, 8, 2, 1; 2000 GE₆₆ *, 10, 2, 1; 2000 GF₆₆ *, 10, 2, 1; 2000 GG₆₆ *, 20, 4, 3; 2000 GH₆₆ *, 9, 2, 1; 2000 GJ₆₆ *, 9, 2, 1; 2000 GK₆₆ *, 10, 2, 1; 2000 GL₆₆ *, 9, 2, 1; 2000 GM₆₆ *, 9, 2, 1; 2000 GN₆₆ *, 7, 2, 1; 2000 GO₆₆ *, 10, 2, 1; 2000 GP₆₆ *, 18, 4, 3; 2000 GQ₆₆ *, 19, 4, 3; 2000 GR₆₆ *, 9, 2, 1; 2000 GS₆₆ *, 10, 2, 1; 2000 GT₆₆ *, 14, 2, 1; 2000 GU₆₆ *, 10, 2, 1; 2000 GV₆₆ *, 10, 2, 1; 2000 GW₆₆ *, 8, 2, 1; 2000 GX₆₆ *, 8, 2, 1; 2000 GY₆₆ *, 20, 4, 3; 2000 GZ₆₆ *, 10, 2, 1; 2000 GA₆₇ *, 16, 4, 3; 2000 GB₆₇ *, 10, 2, 1; 2000 GC₆₇ *, 10, 2, 1; 2000 GD₆₇ *, 8, 2, 1; 2000 GE₆₇ *, 22, 4, 3; 2000 GF₆₇ *, 14, 2, 2; 2000 GG₆₇ *, 20, 4, 3; 2000 GH₆₇ *, 27, 4, 3; 2000 GJ₆₇ *, 9, 2, 1; 2000 GK₆₇ *, 9, 2, 1; 2000 GL₆₇ *, 9, 2, 2; 2000 GM₆₇ *, 14, 2, 1; 2000 GN₆₇ *, 8, 2, 1; 2000 GO₆₇ *, 15, 3, 2; 2000 GP₆₇ *, 10, 2, 1; 2000 GQ₆₇ *, 10, 2, 1; 2000 GR₆₇ *, 10, 2, 1; 2000 GS₆₇ *, 10, 2, 1; 2000 GT₆₇ *, 10, 2, 1; 2000 GU₆₇ *, 10, 2, 1; 2000 GV₆₇ *, 10, 2, 1; 2000 GW₆₇ *, 10, 2, 1; 2000 GX₆₇ *, 10, 2, 1; 2000 GY₆₇ *, 10, 2, 1; 2000 GZ₆₇ *, 9, 2, 1; 2000 GA₆₈ *, 10, 2, 1; 2000 GB₆₈ *, 10, 2, 1; 2000 GC₆₈ *, 17, 4, 3; 2000 GD₆₈ *, 10, 2, 1; 2000 GE₆₈ *, 9, 2, 1; 2000 GF₆₈ *, 8, 2, 1; 2000 GG₆₈ *, 10, 2, 1; 2000 GH₆₈ *, 8, 2, 1; 2000 GJ₆₈ *, 10, 2, 1; 2000 GK₆₈ *, 10, 2, 1; 2000 GL₆₈ *, 10, 2, 1; 2000 GM₆₈ *, 10, 2, 1; 2000 GN₆₈ *, 10, 2, 1; 2000 GO₆₈ *, 9, 2, 1; 2000 GP₆₈ *, 10, 2, 1; 2000 GQ₆₈ *, 10, 2, 1; 2000 GR₆₈ *, 10, 2, 1; 2000 GS₆₈ *, 7, 2, 1; 2000 GT₆₈ *, 9, 2, 1; 2000 GU₆₈ *, 15, 3, 2; 2000 GV₆₈ *, 14, 3, 2; 2000 GW₆₈ *, 10, 2, 1; 2000 GX₆₈ *, 10, 2, 1; 2000 GY₆₈ *, 10, 2, 1; 2000 GZ₆₈ *, 8, 2, 1; 2000 GA₆₉ *, 10, 2, 1; 2000 GB₆₉ *, 10, 2, 1; 2000 GC₆₉ *, 10, 2, 1; 2000 GD₆₉ *, 10, 2, 1; 2000 GE₆₉ *, 10, 2, 1; 2000 GF₆₉ *, 10, 2, 1; 2000 GG₆₉ *, 10, 2, 1; 2000 GH₆₉ *,

10, 2, 1; 2000 GJ₆₉ *, 7, 2, 1; 2000 GK₆₉ *, 15, 2, 1; 2000 GL₆₉ *, 8, 2, 1; 2000 GM₆₉ *, 8, 2, 1; 2000 GN₆₉ *, 10, 2, 1; 2000 GO₆₉ *, 9, 2, 1; 2000 GP₆₉ *, 19, 4, 3; 2000 GQ₆₉ *, 10, 2, 1; 2000 GR₆₉ *, 10, 2, 1; 2000 GS₆₉ *, 10, 2, 1; 2000 GT₆₉ *, 10, 2, 1; 2000 GU₆₉ *, 18, 4, 57; 2000 GV₆₉ *, 9, 2, 1; 2000 GW₆₉ *, 7, 2, 1; 2000 GX₆₉ *, 18, 4, 3; 2000 GY₆₉ *, 10, 2, 1; 2000 GZ₆₉ *, 10, 2, 1; 2000 GA₇₀ *, 10, 2, 1; 2000 GB₇₀ *, 15, 3, 2; 2000 GC₇₀ *, 20, 4, 3; 2000 GD₇₀ *, 13, 3, 2; 2000 GE₇₀ *, 8, 2, 1; 2000 GF₇₀ *, 17, 4, 3; 2000 GH₇₀ *, 9, 2, 1; 2000 GJ₇₀ *, 15, 4, 3; 2000 GK₇₀ *, 19, 4, 3; 2000 GL₇₀ *, 6, 2, 1; 2000 GM₇₀ *, 19, 4, 3; 2000 GN₇₀ *, 9, 2, 1; 2000 GO₇₀ *, 9, 2, 1; 2000 GP₇₀ *, 8, 2, 1; 2000 GQ₇₀ *, 17, 4, 3; 2000 GR₇₀ *, 17, 4, 3; 2000 GS₇₀ *, 18, 4, 3; 2000 GT₇₀ *, 9, 2, 1; 2000 GU₇₀ *, 11, 3, 2; 2000 GV₇₀ *, 7, 2, 1; 2000 GW₇₀ *, 7, 2, 1; 2000 GX₇₀ *, 6, 2, 1; 2000 GY₇₀ *, 9, 2, 1; 2000 GZ₇₀ *, 9, 2, 1; 2000 GA₇₁ *, 9, 2, 1; 2000 GB₇₁ *, 9, 2, 1; 2000 GC₇₁ *, 9, 2, 1; 2000 GD₇₁ *, 9, 2, 1; 2000 GE₇₁ *, 9, 2, 1; 2000 GF₇₁ *, 9, 2, 1; 2000 GH₇₁ *, 9, 2, 1; 2000 GJ₇₁ *, 9, 2, 1; 2000 GK₇₁ *, 9, 2, 1; 2000 GL₇₁ *, 9, 2, 1; 2000 GM₇₁ *, 8, 2, 1; 2000 GN₇₁ *, 7, 2, 1; 2000 GO₇₁ *, 9, 2, 1; 2000 GP₇₁ *, 8, 2, 1; 2000 GQ₇₁ *, 9, 2, 1; 2000 GR₇₁ *, 9, 2, 1; 2000 GS₇₁ *, 9, 2, 1; 2000 GT₇₁ *, 9, 2, 1; 2000 GU₇₁ *, 8, 2, 1; 2000 GV₇₁ *, 9, 2, 1; 2000 GW₇₁ *, 7, 2, 1; 2000 GX₇₁ *, 9, 2, 1; 2000 GY₇₁ *, 9, 2, 1; 2000 GZ₇₁ *, 9, 2, 1; 2000 GA₇₂ *, 9, 2, 1; 2000 GB₇₂ *, 6, 2, 1; 2000 GC₇₂ *, 9, 2, 1; 2000 GD₇₂ *, 9, 2, 1; 2000 GE₇₂ *, 13, 3, 2; 2000 GF₇₂ *, 9, 2, 1; 2000 GG₇₂ *, 9, 2, 1; 2000 GH₇₂ *, 9, 2, 1; 2000 GJ₇₂ *, 9, 2, 1; 2000 GK₇₂ *, 9, 2, 1; 2000 GL₇₂ *, 6, 2, 1; 2000 GM₇₂ *, 8, 2, 1; 2000 GN₇₂ *, 7, 2, 1; 2000 GO₇₂ *, 12, 3, 2; 2000 GP₇₂ *, 9, 2, 1; 2000 GQ₇₂ *, 9, 2, 1; 2000 GR₇₂ *, 8, 2, 1; 2000 GS₇₂ *, 17, 4, 57; 2000 GT₇₂ *, 7, 2, 1; 2000 GU₇₂ *, 8, 2, 1; 2000 GV₇₂ *, 9, 2, 1; 2000 GW₇₂ *, 9, 2, 1; 2000 GX₇₂ *, 8, 2, 1; 2000 GY₇₂ *, 9, 2, 1; 2000 GZ₇₂ *, 17, 4, 3; 2000 GA₇₃ *, 8, 2, 1; 2000 GB₇₃ *, 8, 2, 1; 2000 GC₇₃ *, 8, 2, 1; 2000 GD₇₃ *, 8, 2, 1; 2000 GE₇₃ *, 9, 2, 1; 2000 GF₇₃ *, 9, 2, 1; 2000 GH₇₃ *, 8, 2, 1; 2000 GJ₇₃ *, 13, 3, 2; 2000 GK₇₃ *, 22, 5, 58; 2000 GL₇₃ *, 17, 4, 3; 2000 GM₇₃ *, 7, 2, 1; 2000 GN₇₃ *, 8, 2, 1; 2000 GO₇₃ *, 6, 2, 1; 2000 GP₇₃ *, 9, 2, 1; 2000 GQ₇₃ *, 9, 2, 1; 2000 GR₇₃ *, 8, 2, 1; 2000 GS₇₃ *, 8, 2, 1; 2000 GT₇₃ *, 9, 2, 1; 2000 GU₇₃ *, 9, 2, 1; 2000 GV₇₃ *, 19, 3, 3; 2000 GW₇₃ *, 8, 2, 1; 2000 GX₇₃ *, 14, 2, 1; 2000 GY₇₃ *, 12, 3, 2; 2000 GZ₇₃ *, 8, 2, 1; 2000 GA₇₄ *, 7, 2, 1; 2000 GB₇₄ *, 19, 4, 3; 2000 GC₇₄ *, 19, 4, 3; 2000 GD₇₄ *, 9, 2, 1; 2000 GE₇₄ *, 9, 2, 1; 2000 GF₇₄ *, 9, 2, 1; 2000 GH₇₄ *, 9, 2, 1; 2000 GJ₇₄ *, 9, 2, 1; 2000 GK₇₄ *, 16, 4, 3; 2000 GL₇₄ *, 9, 2, 1; 2000 GM₇₄ *, 9, 2, 1; 2000 GN₇₄ *, 9, 2, 1; 2000 GO₇₄ *, 17, 4, 3; 2000 GP₇₄ *, 9, 2, 1; 2000 GQ₇₄ *, 9, 2, 1; 2000 GR₇₄ *, 9, 2, 1; 2000 GS₇₄ *, 8, 2, 1; 2000 GT₇₄ *, 9, 2, 1; 2000 GU₇₄ *, 8, 2, 1; 2000 GV₇₄ *, 9, 2, 1; 2000 GW₇₄ *, 8, 2, 1; 2000 GX₇₄ *, 9, 2, 1; 2000 GY₇₄ *, 9, 2, 1; 2000 GZ₇₄ *, 8, 2, 1; 2000 GA₇₅ *, 8, 2, 1; 2000 GB₇₅ *, 9, 2, 1; 2000 GC₇₅ *, 8, 2, 1; 2000 GD₇₅ *, 8, 2, 1; 2000 GE₇₅ *, 9, 2, 1; 2000 GF₇₅ *, 7, 2, 1; 2000 GG₇₅ *, 7, 2, 1; 2000 GH₇₅ *, 7, 2, 1; 2000 GJ₇₅ *, 14, 3, 2; 2000 GK₇₅ *, 8, 2, 1; 2000 GL₇₅ *, 14, 3, 2; 2000 GM₇₅ *, 9, 2, 1; 2000 GN₇₅ *, 9, 2, 1; 2000 GO₇₅ *, 9, 2, 1; 2000 GP₇₅ *, 7, 2, 1; 2000 GQ₇₅ *, 7, 2, 1; 2000 GR₇₅ *, 7, 2, 1; 2000 GS₇₅ *, 9, 2, 1; 2000 GT₇₅ *, 9, 2, 1; 2000 GU₇₅ *, 18, 4, 3; 2000 GV₇₅ *, 19, 4, 3; 2000 GW₇₅ *, 9, 2, 1; 2000 GX₇₅ *, 9, 2, 1; 2000 GY₇₅ *, 9, 2, 1; 2000 GZ₇₅ *, 9, 2, 1; 2000 GA₇₆ *, 13, 3, 2; 2000 GB₇₆ *, 7, 2, 1; 2000 GC₇₆ *, 19, 4, 3; 2000 GD₇₆ *, 7, 2, 1; 2000 GE₇₆ *, 7, 2, 1; 2000 GF₇₆ *, 9, 2, 1; 2000 GG₇₆ *, 13, 3, 2; 2000 GH₇₆ *, 8, 2, 1; 2000 GJ₇₆ *, 15, 3, 3; 2000 GK₇₆ *, 9, 2, 1; 2000 GL₇₆ *, 8, 2, 1; 2000 GM₇₆ *, 18, 3, 3; 2000 GN₇₆ *, 9, 2, 1; 2000 GO₇₆ *, 8, 2, 1; 2000 GP₇₆ *, 9, 2, 1; 2000 GQ₇₆ *, 8, 2, 1; 2000 GR₇₆ *, 9, 2, 1; 2000 GS₇₆ *, 9, 2, 1; 2000 GT₇₆ *, 9, 2, 1; 2000 GU₇₆ *, 9, 2, 1; 2000 GV₇₆ *, 19, 3, 3; 2000 GW₇₆ *, 18, 4, 3; 2000 GX₇₆ *, 32, 7, 480; 2000 GY₇₆ *, 7, 2, 2; 2000 GZ₇₆ *, 8, 2, 2; 2000 GA₇₇ *, 9, 2, 2; 2000 GB₇₇ *, 9, 2, 2; 2000 GC₇₇ *, 8, 2, 2; 2000 GD₇₇ *, 7, 2, 2; 2000 GE₇₇ *, 14, 3, 24; 2000 GF₇₇ *, 8, 2, 2; 2000 GG₇₇ *, 9, 2, 2; 2000 GH₇₇ *, 8, 2, 2; 2000 GJ₇₇ *, 9, 2, 2; 2000 GK₇₇ *, 8, 2, 1; 2000 GL₇₇ *, 8, 2, 1; 2000 GM₇₇ *, 11, 3, 2; 2000 GN₇₇ *, 7, 2, 1; 2000 GO₇₇ *, 8, 2, 1; 2000 GP₇₇ *, 8, 2, 1; 2000 GQ₇₇ *, 7, 2, 1; 2000 GR₇₇ *, 17, 4, 3; 2000 GS₇₇ *, 9, 2, 1; 2000 GT₇₇ *, 8, 2, 1; 2000 GU₇₇ *, 9, 2, 1; 2000 GV₇₇ *, 7, 2, 1; 2000 GW₇₇ *, 8, 2, 1; 2000 GX₇₇ *, 6, 2, 1; 2000 GY₇₇ *, 6, 2, 1; 2000 GZ₇₇ *, 9, 2, 1; 2000 GA₇₈ *, 14, 4, 3; 2000 GB₇₈ *, 8, 2, 1; 2000 GC₇₈ *, 8, 2, 1; 2000 GD<

8, 2, 1; 2000 GZ₈₀ *, 9, 2, 1; 2000 GA₈₁ *, 10, 2, 1; 2000 GB₈₁ *, 8, 2, 1; 2000 GC₈₁ *, 9, 2, 1; 2000 GD₈₁ *, 10, 2, 1; 2000 GE₈₁ *, 15, 3, 2; 2000 GF₈₁ *, 7, 2, 1; 2000 GG₈₁ *, 7, 2, 1; 2000 GH₈₁ *, 9, 2, 1; 2000 GJ₈₁ *, 9, 2, 1; 2000 GK₈₁ *, 10, 2, 1; 2000 GL₈₁ *, 8, 2, 1; 2000 GM₈₁ *, 9, 2, 1; 2000 GN₈₁ *, 8, 2, 1; 2000 GO₈₁ *, 14, 3, 2; 2000 GP₈₁ *, 8, 2, 1; 2000 GQ₈₁ *, 7, 2, 1; 2000 GR₈₁ *, 7, 2, 1; 2000 GS₈₁ *, 12, 3, 24; 2000 GT₈₁ *, 7, 2, 1; 2000 GU₈₁ *, 8, 2, 1; 2000 GV₈₁ *, 10, 2, 1; 2000 GW₈₁ *, 8, 2, 1; 2000 GX₈₁ *, 19, 4, 11; 2000 GY₈₁ *, 10, 2, 1; 2000 GZ₈₁ *, 9, 2, 1; 2000 GA₈₂ *, 22, 5, 32; 2000 GB₈₂ *, 10, 2, 1; 2000 GC₈₂ *, 9, 2, 1; 2000 GD₈₂ *, 12, 3, 60; 2000 GE₈₂ *, 7, 2, 1; 2000 GF₈₂ *, 8, 2, 1; 2000 GG₈₂ *, 8, 2, 1; 2000 GH₈₂ *, 8, 2, 1; 2000 GJ₈₂ *, 7, 2, 1; 2000 GK₈₂ *, 12, 3, 9; 2000 GM₈₂ *, 7, 2, 1; 2000 GO₈₂ *, 31, 6, 5; 2000 GP₈₂ *, 30, 5, 4; 2000 GS₈₂ *, 6, 2, 6; 2000 GT₈₂ *, 14, 3, 27; 2000 GU₈₂ *, 8, 2, 3; 2000 GX₈₂ *, 10, 2, 6; 2000 GY₈₂ *, 9, 2, 6; 2000 GZ₈₂ *, 9, 2, 6; 2000 GA₈₃ *, 10, 2, 6; 2000 GB₈₃ *, 10, 2, 6; 2000 GC₈₃ *, 8, 2, 6; 2000 GD₈₃ *, 7, 2, 6; 2000 GE₈₃ *, 9, 2, 6; 2000 GF₈₃ *, 8, 2, 6; 2000 GG₈₃ *, 10, 2, 6; 2000 GH₈₃ *, 8, 2, 6; 2000 GJ₈₃ *, 9, 2, 5; 2000 GK₈₃ *, 9, 2, 5; 2000 GL₈₃ *, 8, 2, 5; 2000 GM₈₃ *, 9, 2, 5; 2000 GN₈₃ *, 6, 2, 5; 2000 GO₈₃ *, 8, 2, 5; 2000 GP₈₃ *, 9, 2, 5; 2000 GQ₈₃ *, 8, 2, 5; 2000 GR₈₃ *, 10, 2, 5; 2000 GS₈₃ *, 10, 2, 5; 2000 GT₈₃ *, 9, 2, 5; 2000 GU₈₃ *, 10, 2, 5; 2000 GV₈₃ *, 10, 2, 5; 2000 GW₈₃ *, 8, 2, 5; 2000 GX₈₃ *, 10, 2, 5; 2000 GY₈₃ *, 7, 2, 1; 2000 GZ₈₃ *, 8, 2, 5; 2000 GA₈₄ *, 8, 2, 5; 2000 GB₈₄ *, 10, 2, 5; 2000 GC₈₄ *, 8, 2, 5; 2000 GD₈₄ *, 10, 2, 5; 2000 GE₈₄ *, 8, 2, 5; 2000 GF₈₄ *, 8, 2, 5; 2000 GH₈₄ *, 8, 2, 5; 2000 GJ₈₄ *, 8, 2, 5; 2000 GK₈₄ *, 12, 3, 10; 2000 GL₈₄ *, 8, 2, 5; 2000 GM₈₄ *, 9, 2, 5; 2000 GN₈₄ *, 8, 2, 5; 2000 GO₈₄ *, 8, 2, 5; 2000 GP₈₄ *, 8, 2, 5; 2000 GQ₈₄ *, 7, 2, 5; 2000 GR₈₄ *, 12, 3, 62; 2000 GS₈₄ *, 9, 2, 5; 2000 GT₈₄ *, 13, 3, 11; 2000 GU₈₄ *, 8, 2, 5; 2000 GV₈₄ *, 14, 3, 11; 2000 GW₈₄ *, 12, 3, 11; 2000 GX₈₄ *, 13, 2, 5; 2000 GY₈₄ *, 13, 3, 11; 2000 GZ₈₄ *, 7, 2, 5; 2000 GA₈₅ *, 7, 2, 5; 2000 GB₈₅ *, 11, 3, 11; 2000 GC₈₅ *, 13, 3, 11; 2000 GD₈₅ *, 13, 3, 11; 2000 GE₈₅ *, 8, 2, 5; 2000 GF₈₅ *, 9, 2, 5; 2000 GG₈₅ *, 15, 3, 11; 2000 GH₈₅ *, 8, 2, 5; 2000 GJ₈₅ *, 15, 3, 11; 2000 GK₈₅ *, 15, 3, 11; 2000 GL₈₅ *, 13, 3, 11; 2000 GM₈₅ *, 17, 4, 68; 2000 GN₈₅ *, 12, 3, 11; 2000 GO₈₅ *, 6, 2, 5; 2000 GP₈₅ *, 11, 3, 11; 2000 GQ₈₅ *, 6, 2, 5; 2000 GR₈₅ *, 19, 5, 68; 2000 GS₈₅ *, 11, 3, 11; 2000 GT₈₅ *, 10, 3, 11; 2000 GU₈₅ *, 12, 3, 10; 2000 GV₈₅ *, 7, 2, 5; 2000 GW₈₅ *, 6, 2, 5; 2000 GX₈₅ *, 9, 2, 4; 2000 GY₈₅ *, 10, 2, 4; 2000 GZ₈₅ *, 9, 2, 4; 2000 GA₈₆ *, 8, 2, 4; 2000 GB₈₆ *, 8, 2, 4; 2000 GC₈₆ *, 7, 2, 4; 2000 GD₈₆ *, 8, 2, 4; 2000 GE₈₆ *, 9, 2, 4; 2000 GF₈₆ *, 23, 5, 92; 2000 GG₈₆ *, 9, 2, 4; 2000 GH₈₆ *, 21, 5, 64; 2000 GJ₈₆ *, 8, 2, 4; 2000 GK₈₆ *, 10, 2, 4; 2000 GL₈₆ *, 8, 2, 4; 2000 GM₈₆ *, 9, 2, 4; 2000 GN₈₆ *, 6, 2, 4; 2000 GO₈₆ *, 13, 3, 26; 2000 GP₈₆ *, 9, 2, 4; 2000 GQ₈₆ *, 18, 4, 33; 2000 GR₈₆ *, 6, 2, 4; 2000 GS₈₆ *, 8, 2, 4; 2000 GT₈₆ *, 9, 2, 4; 2000 GU₈₆ *, 15, 3, 6; 2000 GV₈₆ *, 8, 2, 4; 2000 GW₈₆ *, 15, 3, 6; 2000 GX₈₆ *, 9, 2, 4; 2000 GY₈₆ *, 9, 2, 4; 2000 GZ₈₆ *, 8, 2, 4; 2000 GA₈₇ *, 13, 3, 9; 2000 GB₈₇ *, 10, 2, 4; 2000 GC₈₇ *, 9, 2, 4; 2000 GD₈₇ *, 8, 2, 4; 2000 GE₈₇ *, 10, 2, 4; 2000 GF₈₇ *, 20, 4, 15; 2000 GH₈₇ *, 8, 2, 4; 2000 GJ₈₇ *, 9, 2, 4; 2000 GK₈₇ *, 8, 2, 4; 2000 GL₈₇ *, 9, 2, 4; 2000 GM₈₇ *, 10, 2, 4; 2000 GN₈₇ *, 9, 2, 4; 2000 GO₈₇ *, 13, 3, 9; 2000 GP₈₇ *, 8, 2, 4; 2000 GQ₈₇ *, 10, 2, 4; 2000 GS₈₇ *, 10, 2, 4; 2000 GT₈₇ *, 9, 2, 4; 2000 GU₈₇ *, 15, 3, 9; 2000 GV₈₇ *, 23, 5, 65; 2000 GW₈₇ *, 20, 4, 36; 2000 GX₈₇ *, 15, 3, 9; 2000 GY₈₇ *, 10, 2, 4; 2000 GZ₈₇ *, 15, 3, 9; 2000 GA₈₈ *, 13, 3, 9; 2000 GB₈₈ *, 18, 4, 36; 2000 GC₈₈ *, 10, 2, 4; 2000 GD₈₈ *, 14, 3, 9; 2000 GE₈₈ *, 10, 2, 4; 2000 GF₈₈ *, 15, 3, 9; 2000 GG₈₈ *, 10, 2, 4; 2000 GH₈₈ *, 10, 2, 4; 2000 GJ₈₈ *, 8, 2, 4; 2000 GK₈₈ *, 8, 2, 4; 2000 GL₈₈ *, 9, 2, 4; 2000 GM₈₈ *, 15, 3, 9; 2000 GN₈₈ *, 8, 2, 4; 2000 GO₈₈ *, 14, 3, 9; 2000 GP₈₈ *, 13, 3, 9; 2000 GQ₈₈ *, 9, 2, 4; 2000 GR₈₈ *, 10, 2, 4; 2000 GS₈₈ *, 16, 4, 36; 2000 GT₈₈ *, 14, 3, 9; 2000 GU₈₈ *, 9, 2, 4; 2000 GV₈₈ *, 27, 6, 1423; 2000 GW₈₈ *, 13, 3, 9; 2000 GX₈₈ *, 13, 3, 9; 2000 GY₈₈ *, 17, 4, 36; 2000 GZ₈₈ *, 10, 2, 4; 2000 GA₈₉ *, 20, 4, 35; 2000 GB₈₉ *, 10, 2, 4; 2000 GC₈₉ *, 10, 2, 4; 2000 GD₈₉ *, 9, 2, 4; 2000 GE₈₉ *, 15, 3, 9; 2000 GF₈₉ *, 22, 5, 63; 2000 GG₈₉ *, 9, 2, 4; 2000 GH₈₉ *, 10, 2, 4; 2000 GJ₈₉ *, 12, 3, 9; 2000 GK₈₉ *, 13, 3, 9; 2000 GL₈₉ *, 8, 2, 4; 2000 GM₈₉ *, 15, 3, 9; 2000 GN₈₉ *, 11, 3, 9; 2000 GO₈₉ *, 21, 5, 11; 2000 GP₈₉ *, 8, 2, 4; 2000 GQ₈₉ *, 12, 3, 9; 2000 GR₈₉ *, 20, 4, 67; 2000 GS₈₉ *, 8, 2, 4; 2000 GT₈₉ *, 18, 4, 12; 2000 GU₈₉ *, 9, 2, 4; 2000 GV₈₉ *, 7, 2, 4; 2000 GW₈₉ *, 8, 2, 4; 2000 GX₈₉ *, 15, 4, 15; 2000 GY₈₉ *, 7, 2, 4; 2000 GZ₈₉ *, 8, 2, 4; 2000 GA₉₀ *, 7, 2, 4; 2000 GB₉₀ *, 12, 3, 9; 2000 GC₉₀ *, 8, 2, 4; 2000 GD₉₀ *, 7, 2, 4; 2000 GE₉₀ *, 8, 2, 4; 2000 GF₉₀ *, 8, 2, 4; 2000 GG₉₀ *, 8, 2, 4; 2000 GH₉₀ *, 11, 3, 9; 2000 GJ₉₀ *, 12, 3, 9; 2000 GK₉₀ *, 28, 4, 10; 2000 GL₉₀ *, 8, 2, 4; 2000 GM₉₀ *, 32, 5, 37; 2000 GN₉₀ *, 25, 4, 36; 2000 GO₉₀ *, 17, 4, 9; 2000 GP₉₀ *, 9, 2, 4; 2000 GQ₉₀ *, 10, 2, 4; 2000 GR₉₀ *, 8, 2, 4; 2000 GS₉₀ *, 8, 2, 4; 2000 GT₉₀ *, 8, 2, 4; 2000 GU₉₀ *, 12, 3, 9; 2000 GV₉₀ *, 8, 2, 4; 2000 GW₉₀ *, 8, 2, 4; 2000 GX₉₀ *, 28, 7, 65; 2000 GY₉₀ *, 8, 2, 4; 2000 GZ₉₀ *, 8, 2, 4; 2000 GA₉₁ *, 13, 3, 9; 2000 GB₉₁ *, 8, 2, 4; 2000 GC₉₁ *, 15, 4, 60; 2000 GD₉₁ *, 8, 2, 4; 2000 GE₉₁ *, 12, 3, 9; 2000 GF₉₁ *, 13, 3, 9; 2000 GG₉₁ *, 12, 3, 9; 2000 GH₉₁ *, 13, 3, 9; 2000 GJ₉₁ *, 25, 6, 517; 2000 GK₉₁ *, 13, 3, 9; 2000 GL₉₁ *, 7, 2, 4; 2000 GM₉₁ *, 13, 3, 9; 2000 GN₉₁ *, 13, 3, 9; 2000 GO₉₁ *, 8, 2, 4; 2000 GP₉₁ *, 6, 2, 4; 2000 GQ₉₁ *, 12, 3, 9; 2000 GR₉₁ *, 8, 2, 4; 2000 GS₉₁ *, 7, 2, 4; 2000 GT₉₁ *, 8, 2, 4; 2000 GU₉₁ *, 18, 4, 517; 2000 GV₉₁ *, 8, 2, 4; 2000 GW₉₁ *, 11, 3, 9; 2000 GX₉₁ *, 7, 2, 4; 2000 GY₉₁ *, 11, 3, 9; 2000 GZ₉₁ *, 7, 2, 4; 2000 GA₉₂ *, 12, 3, 9; 2000 GB₉₂ *, 11, 3, 9; 2000 GC₉₂ *, 13, 3, 9; 2000 GD₉₂ *, 13, 3, 9; 2000 GE₉₂ *, 11, 3, 9; 2000 GF₉₂ *, 24, 6, 65; 2000 GG₉₂ *, 11, 3, 9; 2000 GH₉₂ *, 12,

2, 4; 2000 GJ₉₂ *, 8, 2, 3; 2000 GK₉₂ *, 7, 2, 3; 2000 GL₉₂ *, 8, 2, 3; 2000 GM₉₂ *, 8, 2, 3; 2000 GN₉₂ *, 25, 4, 5; 2000 GO₉₂ *, 8, 2, 3; 2000 GP₉₂ *, 7, 2, 3; 2000 GQ₉₂ *, 7, 2, 3; 2000 GR₉₂ *, 12, 3, 27; 2000 GS₉₂ *, 8, 2, 3; 2000 GT₉₂ *, 9, 2, 3; 2000 GU₉₂ *, 8, 2, 3; 2000 GV₉₂ *, 16, 4, 29; 2000 GW₉₂ *, 10, 2, 3; 2000 GX₉₂ *, 9, 2, 3; 2000 GY₉₂ *, 10, 2, 3; 2000 GZ₉₂ *, 7, 2, 3; 2000 GA₉₃ *, 9, 2, 3; 2000 GB₉₃ *, 8, 2, 3; 2000 GC₉₃ *, 9, 2, 3; 2000 GD₉₃ *, 8, 2, 3; 2000 GE₉₃ *, 9, 2, 3; 2000 GF₉₃ *, 12, 3, 8; 2000 GH₉₃ *, 10, 2, 3; 2000 GJ₉₃ *, 14, 3, 8; 2000 GK₉₃ *, 13, 3, 8; 2000 GL₉₃ *, 13, 3, 8; 2000 GM₉₃ *, 8, 2, 3; 2000 GN₉₃ *, 15, 3, 8; 2000 GO₉₃ *, 15, 3, 8; 2000 GP₉₃ *, 19, 4, 67; 2000 GQ₉₃ *, 17, 4, 67; 2000 GR₉₃ *, 13, 3, 8; 2000 GS₉₃ *, 15, 3, 8; 2000 GT₉₃ *, 12, 3, 8; 2000 GU₉₃ *, 13, 3, 8; 2000 GV₉₃ *, 15, 3, 8; 2000 GW₉₃ *, 15, 3, 8; 2000 GX₉₃ *, 12, 3, 8; 2000 GY₉₃ *, 13, 3, 8; 2000 GZ₉₃ *, 13, 3, 8; 2000 GA₉₄ *, 12, 3, 8; 2000 GB₉₄ *, 14, 3, 8; 2000 GC₉₄ *, 14, 3, 8; 2000 GD₉₄ *, 13, 3, 8; 2000 GE₉₄ *, 11, 3, 8; 2000 GF₉₄ *, 12, 3, 8; 2000 GH₉₄ *, 12, 3, 8; 2000 GI₉₄ *, 10, 3, 8; 2000 GJ₉₄ *, 11, 3, 8; 2000 GK₉₄ *, 13, 3, 8; 2000 GL₉₄ *, 6, 2, 3; 2000 GM₉₄ *, 7, 2, 3; 2000 GN₉₄ *, 18, 4, 68; 2000 GO₉₄ *, 13, 3, 8; 2000 GP₉₄ *, 13, 3, 8; 2000 GQ₉₄ *, 13, 3, 9; 2000 GR₉₄ *, 12, 3, 8; 2000 GS₉₄ *, 11, 3, 8; 2000 GT₉₄ *, 6, 2, 3; 2000 GU₉₄ *, 6, 2, 3; 2000 GV₉₄ *, 7, 2, 3; 2000 GW₉₄ *, 9, 2, 2; 2000 GX₉₄ *, 14, 3, 7; 2000 GY₉₄ *, 12, 3, 7; 2000 GZ₉₄ *, 8, 2, 2; 2000 GA₉₅ *, 9, 2, 2; 2000 GB₉₅ *, 8, 2, 2; 2000 GC₉₅ *, 10, 2, 2; 2000 GD₉₅ *, 10, 2, 2; 2000 GE₉₅ *, 10, 2, 2; 2000 GF₉₅ *, 10, 2, 2; 2000 GH₉₅ *, 8, 2, 2; 2000 GJ₉₅ *, 9, 2, 2; 2000 GK₉₅ *, 8, 2, 2; 2000 GL₉₅ *, 10, 2, 2; 2000 GM₉₅ *, 8, 2, 2; 2000 GN₉₅ *, 9, 2, 2; 2000 GO₉₅ *, 9, 2, 2; 2000 GP₉₅ *, 9, 2, 2; 2000 GQ₉₅ *, 10, 2, 2; 2000 GR₉₅ *, 10, 2, 2; 2000 GS₉₅ *, 10, 2, 2; 2000 GT₉₅ *, 10, 2, 2; 2000 GU₉₅ *, 10, 2, 2; 2000 GV₉₅ *, 10, 2, 2; 2000 GW₉₅ *, 8, 2, 2; 2000 GX₉₅ *, 7, 2, 2; 2000 GY₉₅ *, 9, 2, 2; 2000 GZ₉₅ *, 10, 2, 2; 2000 GA₉₆ *, 6, 2, 2; 2000 GB₉₆ *, 8, 2, 2; 2000 GC₉₆ *, 9, 2, 2; 2000 GD₉₆ *, 9, 2, 2; 2000 GE₉₆ *, 9, 2, 2; 2000 GF₉₆ *, 9, 2, 2; 2000 GG₉₆ *, 10, 2, 2; 2000 GH₉₆ *, 9, 2, 2; 2000 GJ₉₆ *, 9, 2, 2; 2000 GK₉₆ *, 6, 2, 2; 2000 GL₉₆ *, 10, 2, 2; 2000 GM₉₆ *, 8, 2, 2; 2000 GN₉₆ *, 10, 2, 2; 2000 GO₉₆ *, 10, 2, 2; 2000 GP₉₆ *, 10, 2, 2; 2000 GQ₉₆ *, 10, 2, 2; 2000 GR₉₆ *, 7, 2, 2; 2000 GS₉₆ *, 10, 2, 2; 2000 GT₉₆ *, 9, 2, 2; 2000 GU₉₆ *, 8, 2, 2; 2000 GV₉₆ *, 7, 2, 2; 2000 GW₉₆ *, 7, 2, 2; 2000 GX₉₆ *, 8, 2, 2; 2000 GY₉₆ *, 8, 2, 2; 2000 GZ₉₆ *, 8, 2, 2; 2000 GA₉₇ *, 7, 2, 2; 2000 GB₉₇ *, 15, 2, 1; 2000 GC₉₇ *, 9, 2, 1; 2000 GD₉₇ *, 11, 2, 1; 2000 GE₉₇ *, 7, 2, 1; 2000 GF₉₇ *, 10, 2, 1; 2000 GG₉₇ *, 9, 2, 1; 2000 GH₉₇ *, 9, 2, 1; 2000 GJ₉₇ *, 8, 2, 1; 2000 GK₉₇ *, 14, 2, 1; 2000 GL₉₇ *, 9, 2, 1; 2000 GM₉₇ *, 12, 2, 1; 2000 GN₉₇ *, 8, 2, 1; 2000 GO₉₇ *, 7, 2, 1; 2000 GP₉₇ *, 9, 2, 1; 2000 GQ₉₇ *, 20, 2, 1; 2000 GR₉₇ *, 14, 2, 1; 2000 GS₉₇ *, 9, 2, 1; 2000 GT₉₇ *, 14, 2, 1; 2000 GU₉₇ *, 12, 2, 1; 2000 GV₉₇ *, 13, 2, 1; 2000 GW₉₇ *, 21, 2, 1; 2000 GX₉₇ *, 18, 2, 1; 2000 GY₉₇ *, 21, 5, 68; 2000 GZ₉₇ *, 10, 2, 1; 2000 GA₉₈ *, 15, 3, 3; 2000 GB₉₈ *, 10, 2, 1; 2000 GC₉₈ *, 10, 2, 1; 2000 GD₉₈ *, 9, 2, 1; 2000 GE₉₈ *, 10, 2, 1; 2000 GF₉₈ *, 10, 2, 1; 2000 GH₉₈ *, 15, 3, 3; 2000 GI₉₈ *, 9, 2, 1; 2000 GJ₉₈ *, 10, 2, 1; 2000 GK₉₈ *, 10, 2, 1; 2000 GL₉₈ *, 10, 2, 1; 2000 GM₉₈ *, 10, 2, 1; 2000 GN₉₈ *, 10, 2, 1; 2000 GO₉₈ *, 13, 3, 9; 2000 GP₉₈ *, 15, 3, 3; 2000 GQ₉₈ *, 10, 2, 1; 2000 GR₉₈ *, 9, 2, 1; 2000 GS₉₈ *, 9, 2, 1; 2000 GT₉₈ *, 9, 2, 1; 2000 GU₉₈ *, 10, 2, 1; 2000 GV₉₈ *, 10, 2, 1; 2000 GW₉₈ *, 15, 2, 1; 2000 GX₉₈ *, 8, 2, 1; 2000 GY₉₈ *, 9, 2, 1; 2000 GZ₉₈ *, 15, 2, 1; 2000 GA₉₉ *, 15, 2, 1; 2000 GB₉₉ *, 9, 2, 1; 2000 GC₉₉ *, 17, 3, 3; 2000 GD₉₉ *, 9, 2, 1; 2000 GE₉₉ *, 13, 2, 1; 2000 GF₉₉ *, 21, 3, 9; 2000 GG₉₉ *, 9, 2, 1; 2000 GH₉₉ *, 13, 2, 1; 2000 GJ₉₉ *, 25, 3, 3; 2000 GK₉₉ *, 10, 2, 1; 2000 GL₉₉ *, 8, 2, 1; 2000 GM₉₉ *, 35, 4, 6; 2000 GN₉₉ *, 9, 2, 1; 2000 GO₉₉ *, 9, 2, 1; 2000 GP₉₉ *, 13, 3, 3; 2000 GQ₉₉ *, 10, 2, 1; 2000 GR₉₉ *, 10, 2, 1; 2000 GS₉₉ *, 14, 3, 3; 2000 GT₉₉ *, 20, 2, 1; 2000 GU₉₉ *, 9, 2, 1; 2000 GV₉₉ *, 9, 2, 1; 2000 GW₉₉ *, 9, 2, 1; 2000 GX₉₉ *, 10, 2, 1; 2000 GY₉₉ *, 13, 3, 3; 2000 GZ₉₉ *, 10, 2, 1; 2000 GA₁₀₀ *, 10, 2, 1; 2000 GB₁₀₀ *, 10, 2, 1; 2000 GC₁₀₀ *, 10, 2, 1; 2000 GD₁₀₀ *, 9, 2, 1; 2000 GE₁₀₀ *, 10, 2, 1; 2000 GF₁₀₀ *, 10, 2, 1; 2000 GH₁₀₀ *, 9, 2, 1; 2000 GI₁₀₀ *, 24, 5, 27; 2000 GJ₁₀₀ *, 10, 2, 1; 2000 GK₁₀₀ *, 9, 2, 1; 2000 GN₁₀₀ *, 10, 2, 1; 2000 GO₁₀₀ *, 10, 2, 1; 2000 GP₁₀₀ *, 10, 2, 1; 2000 GQ₁₀₀ *, 10, 2, 1; 2000 GR₁₀₀ *, 10, 2, 1; 2000 GS₁₀₀ *, 10, 2, 1; 2000 GT₁₀₀ *, 10, 2, 1; 2000 GU₁₀₀ *, 10, 2, 1; 2000 GV₁₀₀ *, 8, 2, 1; 2000 GW₁₀₀ *, 7, 2, 1; 2000 GX₁₀₀ *, 10, 2, 1; 2000 GY₁₀₀ *, 8, 2, 1; 2000 GZ₁₀₀ *, 9, 2, 1; 2000 GA₁₀₁ *, 9, 2, 1; 2000 GB₁₀₁ *, 9, 2, 1; 2000 GC₁₀₁ *, 10, 2, 1; 2000 GD₁₀₁ *, 9, 2,

2000 APR. 18

M.P.C. 39781

6, 2; 2000 GJ₁₀₃ *, 10, 2, 7; 2000 GK₁₀₃ *, 14, 3; 10; 2000 GL₁₀₃ *, 15, 3, 31; 2000 GM₁₀₃ *, 9, 2, 1; 2000 GN₁₀₃ *, 9, 2, 1; 2000 GO₁₀₃ *, 10, 2, 1; 2000 GP₁₀₃ *, 13, 3, 7; 2000 GQ₁₀₃ *, 8, 2, 1; 2000 GR₁₀₃ *, 10, 2, 1; 2000 GS₁₀₃ *, 10, 2, 1; 2000 GT₁₀₃ *, 9, 2, 1; 2000 GU₁₀₃ *, 9, 2, 1; 2000 GV₁₀₃ *, 10, 2, 1; 2000 GW₁₀₃ *, 8, 2, 1; 2000 GX₁₀₃ *, 10, 2, 1; 2000 GY₁₀₃ *, 10, 2, 1; 2000 GZ₁₀₃ *, 9, 2, 1; 2000 GA₁₀₄ *, 9, 2, 1; 2000 GB₁₀₄ *, 9, 2, 1; 2000 GC₁₀₄ *, 9, 2, 1; 2000 GD₁₀₄ *, 10, 2, 1; 2000 GE₁₀₄ *, 10, 2, 1; 2000 GF₁₀₄ *, 8, 2, 1; 2000 GH₁₀₄ *, 9, 2, 1; 2000 GI₁₀₄ *, 9, 2, 1; 2000 GJ₁₀₄ *, 10, 2, 1; 2000 GK₁₀₄ *, 10, 2, 1; 2000 GL₁₀₄ *, 9, 2, 1; 2000 GM₁₀₄ *, 7, 2, 1; 2000 GN₁₀₄ *, 9, 2, 1; 2000 GO₁₀₄ *, 10, 2, 1; 2000 GP₁₀₄ *, 9, 2, 1; 2000 GQ₁₀₄ *, 8, 2, 1; 2000 GR₁₀₄ *, 9, 2, 1; 2000 GS₁₀₄ *, 8, 2, 1; 2000 GT₁₀₄ *, 10, 2, 1; 2000 GU₁₀₄ *, 10, 2, 1; 2000 GV₁₀₄ *, 9, 2, 1; 2000 GW₁₀₄ *, 8, 2, 1; 2000 GX₁₀₄ *, 9, 2, 1; 2000 GY₁₀₄ *, 10, 2, 1; 2000 GZ₁₀₄ *, 10, 2, 1; 2000 GA₁₀₅ *, 10, 2, 1; 2000 GB₁₀₅ *, 7, 2, 1; 2000 GC₁₀₅ *, 7, 2, 1; 2000 GD₁₀₅ *, 9, 2, 1; 2000 GE₁₀₅ *, 10, 2, 1; 2000 GF₁₀₅ *, 10, 2, 1; 2000 GH₁₀₅ *, 9, 2, 1; 2000 GI₁₀₅ *, 9, 2, 1; 2000 GJ₁₀₅ *, 10, 2, 1; 2000 GK₁₀₅ *, 9, 2, 1; 2000 GL₁₀₅ *, 18, 4, 32; 2000 GM₁₀₅ *, 8, 2, 1; 2000 GN₁₀₅ *, 9, 2, 1; 2000 GO₁₀₅ *, 8, 2, 1; 2000 GP₁₀₅ *, 6, 2, 1; 2000 GQ₁₀₅ *, 7, 2, 1; 2000 GR₁₀₅ *, 9, 2, 1; 2000 GS₁₀₅ *, 8, 2, 1; 2000 GT₁₀₅ *, 9, 2, 1; 2000 GU₁₀₅ *, 25, 6, 14; 2000 GV₁₀₅ *, 10, 2, 1; 2000 GW₁₀₅ *, 10, 2, 1; 2000 GX₁₀₅ *, 17, 4, 27; 2000 GY₁₀₅ *, 8, 2, 1; 2000 GZ₁₀₅ *, 9, 2, 1; 2000 GA₁₀₆ *, 15, 3, 3; 2000 GB₁₀₆ *, 13, 3, 5; 2000 GC₁₀₆ *, 8, 2, 1; 2000 GD₁₀₆ *, 10, 2, 1; 2000 GE₁₀₆ *, 14, 3, 5; 2000 GF₁₀₆ *, 8, 2, 1; 2000 GH₁₀₆ *, 8, 2, 1; 2000 GI₁₀₆ *, 9, 2, 1; 2000 GJ₁₀₆ *, 10, 2, 1; 2000 GK₁₀₆ *, 9, 2, 1; 2000 GL₁₀₆ *, 10, 2, 1; 2000 GM₁₀₆ *, 9, 2, 1; 2000 GN₁₀₆ *, 6, 2, 1; 2000 GO₁₀₆ *, 10, 2, 1; 2000 GP₁₀₆ *, 9, 2, 1; 2000 GQ₁₀₆ *, 10, 2, 1; 2000 GR₁₀₆ *, 9, 2, 1; 2000 GS₁₀₆ *, 8, 2, 1; 2000 GT₁₀₆ *, 7, 2, 1; 2000 GU₁₀₆ *, 8, 2, 1; 2000 GV₁₀₆ *, 8, 2, 1; 2000 GW₁₀₆ *, 8, 2, 1; 2000 GX₁₀₆ *, 8, 2, 1; 2000 GY₁₀₆ *, 8, 2, 1; 2000 GZ₁₀₆ *, 8, 2, 1; 2000 GA₁₀₇ *, 8, 2, 1; 2000 GB₁₀₇ *, 8, 2, 1; 2000 GC₁₀₇ *, 8, 2, 1; 2000 GD₁₀₇ *, 7, 2, 1; 2000 GE₁₀₇ *, 7, 2, 1; 2000 GF₁₀₇ *, 9, 2, 1; 2000 GH₁₀₇ *, 13, 4, 5; 2000 GI₁₀₇ *, 7, 2, 1; 2000 GJ₁₀₇ *, 7, 2, 1; 2000 GK₁₀₇ *, 7, 2, 1; 2000 GL₁₀₇ *, 10, 2, 1; 2000 GM₁₀₇ *, 7, 2, 1; 2000 GN₁₀₇ *, 6, 2, 1; 2000 GO₁₀₇ *, 7, 2, 1; 2000 GP₁₀₇ *, 13, 3, 6; 2000 GQ₁₀₇ *, 13, 3, 6; 2000 GR₁₀₇ *, 12, 3, 6; 2000 GS₁₀₇ *, 8, 2, 1; 2000 GT₁₀₇ *, 8, 2, 1; 2000 GU₁₀₇ *, 8, 2, 1; 2000 GV₁₀₇ *, 8, 2, 1; 2000 GW₁₀₇ *, 8, 2, 1; 2000 GX₁₀₇ *, 8, 2, 1; 2000 GY₁₀₇ *, 8, 2, 1; 2000 GZ₁₀₇ *, 8, 2, 1; 2000 GA₁₀₈ *, 6, 2, 1; 2000 GB₁₀₈ *, 8, 2, 1; 2000 GC₁₀₈ *, 8, 2, 1; 2000 GD₁₀₈ *, 8, 2, 1; 2000 GE₁₀₈ *, 8, 2, 1; 2000 GF₁₀₈ *, 8, 2, 1; 2000 GG₁₀₈ *, 6, 2, 1; 2000 GH₁₀₈ *, 8, 2, 1; 2000 GJ₁₀₈ *, 13, 3, 6; 2000 GK₁₀₈ *, 12, 3, 6; 2000 GL₁₀₈ *, 8, 2, 1; 2000 GM₁₀₈ *, 13, 3, 6; 2000 GN₁₀₈ *, 13, 3, 6; 2000 GO₁₀₈ *, 12, 3, 6; 2000 GP₁₀₈ *, 13, 3, 6; 2000 GQ₁₀₈ *, 13, 3, 6; 2000 GR₁₀₈ *, 11, 3, 6; 2000 GS₁₀₈ *, 12, 3, 6; 2000 GT₁₀₈ *, 13, 3, 6; 2000 GU₁₀₈ *, 7, 2, 1; 2000 GV₁₀₈ *, 8, 2, 1; 2000 GW₁₀₈ *, 11, 3, 9; 2000 GX₁₀₈ *, 7, 2, 1; 2000 GY₁₀₈ *, 11, 3, 6; 2000 GZ₁₀₈ *, 6, 2, 1; 2000 GA₁₀₉ *, 6, 2, 1; 2000 GB₁₀₉ *, 12, 3, 6; 2000 GC₁₀₉ *, 6, 2, 1; 2000 GD₁₀₉ *, 6, 2, 1; 2000 GE₁₀₉ *, 7, 2, 1; 2000 GF₁₀₉ *, 7, 2, 1; 2000 GH₁₀₉ *, 7, 2, 1; 2000 GI₁₀₉ *, 10, 3, 6; 2000 GJ₁₀₉ *, 12, 3, 6; 2000 GK₁₀₉ *, 7, 2, 1; 2000 GL₁₀₉ *, 12, 3, 6; 2000 GM₁₀₉ *, 7, 2, 1; 2000 GN₁₀₉ *, 12, 3, 6; 2000 GO₁₀₉ *, 11, 3, 6; 2000 GP₁₀₉ *, 10, 3, 6; 2000 GQ₁₀₉ *, 8, 2, 2; 2000 GR₁₀₉ *, 14, 3, 12; 2000 GS₁₀₉ *, 13,

1, 0; 2000 GC120 *, 5, 1, 0; 2000 GD120 *, 4, 1, 0; 2000 GK120 *, 3, 1, 0; 2000 GJ121 *, 4, 1, 0; 2000 GK121 *, 4, 1, 0; 2000 GQ121 *, 4, 1, 0; 2000 GD122 *, 13, 3, 6; 2000 GN122 *, 4, 1, 0; 2000 GV122 *, 10, 2, 1; 2000 GJ122 *, 5, 1, 0; 2000 GY122 *, 14, 3, 9; 2000 GZ122 *, 10, 2, 5; 2000 GA123 *, 16, 4, 7; 2000 GB123 *, 7, 2, 4; 2000 GH123 *, 9, 2, 5; 2000 GJ123 *, 8, 2, 5; 2000 GK123 *, 15, 3, 6; 2000 GL123 *, 13, 3, 6; 2000 GM123 *, 15, 3, 6; 2000 GN123 *, 12, 3, 6; 2000 GO123 *, 19, 4, 63; 2000 GP123 *, 13, 3, 6; 2000 GQ123 *, 9, 2, 5; 2000 GR123 *, 15, 3, 6; 2000 GS123 *, 8, 2, 5; 2000 GT123 *, 6, 2, 5; 2000 GU123 *, 10, 2, 5; 2000 GV123 *, 15, 3, 6; 2000 GW123 *, 13, 3, 6; 2000 GX123 *, 15, 3, 6; 2000 GY123 *, 15, 3, 6; 2000 GZ123 *, 14, 3, 6; 2000 GA124 *, 10, 3, 6; 2000 GB124 *, 15, 3, 6; 2000 GC124 *, 7, 2, 5; 2000 GD124 *, 13, 3, 6; 2000 GE124 *, 8, 2, 5; 2000 GF124 *, 12, 3, 6; 2000 GG124 *, 14, 3, 6; 2000 GH124 *, 14, 3, 6; 2000 GJ124 *, 11, 3, 6; 2000 GK124 *, 14, 3, 6; 2000 GL124 *, 15, 3, 6; 2000 GM124 *, 13, 3, 6; 2000 GN124 *, 8, 2, 5; 2000 GO124 *, 9, 2, 5; 2000 GP124 *, 14, 3, 6; 2000 GQ124 *, 14, 3, 6; 2000 GR124 *, 10, 2, 5; 2000 GS124 *, 10, 2, 5; 2000 GT124 *, 8, 2, 5; 2000 GU124 *, 14, 3, 6; 2000 GV124 *, 10, 3, 6; 2000 GW124 *, 15, 3, 6; 2000 GX124 *, 9, 2, 5; 2000 GY124 *, 9, 2, 5; 2000 GZ124 *, 8, 2, 5; 2000 GA125 *, 14, 3, 6; 2000 GB125 *, 11, 3, 6; 2000 GC125 *, 14, 3, 6; 2000 GD125 *, 13, 3, 6; 2000 GE125 *, 14, 3, 6; 2000 GF125 *, 15, 3, 6; 2000 GG125 *, 7, 2, 5; 2000 GH125 *, 8, 2, 5; 2000 GJ125 *, 8, 2, 5; 2000 GK125 *, 6, 2, 5; 2000 GL125 *, 10, 3, 6; 2000 GM125 *, 9, 2, 5; 2000 GN125 *, 13, 3, 6; 2000 GO125 *, 14, 3, 6; 2000 GP125 *, 11, 3, 6; 2000 GQ125 *, 12, 3, 6; 2000 GR125 *, 17, 4, 35; 2000 GS125 *, 8, 2, 5; 2000 GT125 *, 7, 2, 5; 2000 GU125 *, 9, 2, 5; 2000 GV125 *, 14, 3, 6; 2000 GW125 *, 8, 2, 5; 2000 GX125 *, 7, 2, 5; 2000 GY125 *, 15, 3, 6; 2000 GZ125 *, 9, 2, 5; 2000 GA126 *, 7, 2, 5; 2000 GB126 *, 14, 3, 6; 2000 GC126 *, 13, 3, 6; 2000 GD126 *, 9, 2, 5; 2000 GE126 *, 14, 3, 6; 2000 GF126 *, 8, 2, 5; 2000 GG126 *, 15, 3, 6; 2000 GH126 *, 9, 2, 5; 2000 GJ126 *, 12, 3, 6; 2000 GK126 *, 9, 2, 5; 2000 GL126 *, 12, 3, 6; 2000 GM126 *, 12, 3, 6; 2000 GN126 *, 11, 3, 6; 2000 GO126 *, 12, 3, 6; 2000 GP126 *, 13, 3, 6; 2000 GQ126 *, 6, 2, 5; 2000 GR126 *, 10, 2, 5; 2000 GS126 *, 10, 2, 5; 2000 GT126 *, 8, 2, 5; 2000 GU126 *, 9, 2, 5; 2000 GV126 *, 10, 2, 5; 2000 GW126 *, 13, 3, 6; 2000 GX126 *, 9, 2, 5; 2000 GY126 *, 12, 3, 6; 2000 GZ126 *, 7, 2, 5; 2000 GA127 *, 12, 3, 6; 2000 GB127 *, 8, 2, 5; 2000 GC127 *, 8, 2, 5; 2000 GD127 *, 9, 2, 5; 2000 GE127 *, 12, 3, 6; 2000 GF127 *, 11, 3, 6; 2000 GH127 *, 11, 3, 6; 2000 GI127 *, 15, 3, 6; 2000 GJ127 *, 6, 2, 5; 2000 GK127 *, 9, 2, 4; 2000 GL127 *, 12, 3, 6; 2000 GM127 *, 18, 4, 68; 2000 GN127 *, 9, 2, 1; 2000 GO127 *, 42, 5, 5; 2000 GU127 *, 8, 2, 6; 2000 GV127 *, 9, 2, 3; 2000 GW127 *, 2, 1, 0; 2000 GH132 *, 3, 1, 0; 2000 GL132 *, 15, 2, 1; 2000 GS132 *, 9, 2, 5; 2000 GT132 *, 7, 2, 5; 2000 GU132 *, 7, 2, 5; 2000 GV132 *, 9, 2, 5; 2000 GA133 *, 8, 2, 6; 2000 GB133 *, 7, 2, 6; 2000 GC133 *, 8, 2, 6; 2000 GD133 *, 10, 2, 6; 2000 GE133 *, 8, 2, 6; 2000 GF133 *, 10, 2, 6; 2000 GH133 *, 8, 2, 6; 2000 GI133 *, 10, 2, 6; 2000 GJ133 *, 10, 2, 6; 2000 GK133 *, 9, 2, 6; 2000 GL133 *, 10, 2, 6; 2000 GM133 *, 10, 2, 6; 2000 GN133 *, 10, 2, 6; 2000 GO133 *, 8, 2, 6; 2000 GP133 *, 7, 2, 6; 2000 GQ133 *, 7, 2, 6; 2000 GR133 *, 7, 2, 6; 2000 GS133 *, 7, 2, 6; 2000 GT133 *, 7, 2, 6; 2000 GU133 *, 7, 2, 6; 2000 GV133 *, 7, 2, 6; 2000 GW133 *, 7, 2, 6; 2000 GX133 *, 7, 2, 6; 2000 GY133 *, 7, 2, 6; 2000 GZ133 *, 7, 2, 6; 2000 GA134 *, 9, 2, 6; 2000 GB134 *, 7, 2, 6; 2000 GC134 *, 7, 2, 6; 2000 GD134 *, 9, 2, 6; 2000 GE134 *, 10, 2, 6; 2000 GF134 *, 8, 2, 6; 2000 GG134 *, 6, 2, 6; 2000 GH134 *, 7, 2, 6; 2000 GI134 *, 8, 2, 5; 2000 GJ134 *, 9, 2, 5; 2000 GK134 *, 9, 2, 5; 2000 GL134 *, 10, 2, 5; 2000 GM134 *, 8, 2, 5; 2000 GN134 *, 8, 2, 5; 2000 GO134 *, 9, 2, 5; 2000 GP134 *, 10, 2, 5; 2000 GQ134 *, 8, 2, 5; 2000 GR134 *, 9, 2, 5; 2000 GS134 *, 7, 2, 5; 2000 GT134 *, 9, 2, 5; 2000 GU134 *, 9, 2, 5; 2000 GV134 *, 8, 2, 5; 2000 GW134 *, 10, 2, 5; 2000 GX134 *, 9, 2, 5; 2000 GY134 *, 9, 2, 5; 2000 GZ134 *, 10, 2, 5; 2000 GA135 *, 9, 2, 5; 2000 GB135 *, 7, 2, 5; 2000 GC135 *, 9, 2, 5; 2000 GD135 *, 7, 2, 5; 2000 GE135 *, 7, 2, 5; 2000 GF135 *, 9, 2, 5; 2000 GH135 *, 7, 2, 5; 2000 GI135 *, 7, 2, 5; 2000 GJ135 *, 7, 2, 5; 2000 GK135 *, 7, 2, 5; 2000 GL135 *, 7, 2, 5; 2000 GM135 *, 13, 3, 6; 2000 GN135 *, 7, 2, 5; 2000 GO135 *, 7, 2, 5; 2000 GP135 *, 8, 2, 5; 2000 GQ135 *, 8, 2, 5; 2000 GR135 *, 13, 3, 36; 2000 GS135 *, 8, 2, 5; 2000 GT135 *, 8, 2, 5; 2000 GU135 *, 9, 2, 3; 2000 GV135 *, 9, 2, 1; 2000 GW135 *, 8, 2, 1; 2000 GX135 *, 10, 2, 1; 2000 GY135 *, 10, 2, 1; 2000 GZ135 *, 10, 2, 1; 2000 GA136 *, 10, 2, 1; 2000 GB136 *, 10, 2, 1; 2000 GC1

3050 P-L, 3, 1, 0; 3082 P-L, 5, 1, 0; 3086 P-L, 8, 2, 2; 3093 P-L, 5, 1, 0; 3103 P-L, 3, 1, 0; 3504 P-L, 5, 1, 0; 3519 P-L, 4, 1, 0; 3520 P-L, 3, 1, 0; 3543 P-L, 8, 2, 28; 3552 P-L, 13, 3, 38; 3555 P-L, 10, 2, 1; 3563 P-L, 5, 1, 0; 4057 P-L, 10, 2, 1; 4083 P-L, 14, 3, 8; 4100 P-L, 5, 1, 0; 4104 P-L, 14, 3, 8; 4124 P-L, 4, 1, 0; 4169 P-L, 32, 7, 595; 4180 P-L, 13, 3, 3; 4239 P-L, 5, 1, 0; 4289 P-L, 5, 1, 0; 4291 P-L, 5, 1, 0; 4315 P-L, 16, 4, 12; 4319 P-L, 5, 1, 0; 4528 P-L, 9, 2, 1; 4555 P-L, 5, 1, 0; 4592 P-L, 5, 1, 0; 4617 P-L, 5, 1, 0; 4646 P-L, 5, 1, 0; 4649 P-L, 13, 3, 6; 4772 P-L, 3, 1, 0; 4806 P-L, 10, 2, 36; 5567 P-L, 8, 2, 5; 6033 P-L, 13, 3, 33; 6056 P-L, 14, 3, 8; 6059 P-L, 10, 2, 2; 6061 P-L, 9, 2, 1; 6070 P-L, 18, 4, 6; 6110 P-L, 5, 1, 0; 6113 P-L, 13, 3, 2; 6224 P-L, 9, 2, 1; 6250 P-L, 8, 2, 5; 6274 P-L, 25, 5, 6; 6299 P-L, 10, 2, 6; 6309 P-L, 34, 5, 5; 6312 P-L, 10, 2, 1; 6319 P-L, 4, 1, 0; 6519 P-L, 20, 4, 3; 6520 P-L, 18, 4, 6; 6576 P-L, 15, 3, 172; 6587 P-L, 14, 3, 11; 6595 P-L, 17, 4, 6; 6599 P-L, 14, 3, 2; 6608 P-L, 4, 1, 0; 6617 P-L, 10, 2, 5; 6622 P-L, 15, 3, 10; 6639 P-L, 3, 1, 0; 6647 P-L, 34, 6, 6; 6678 P-L, 5, 1, 0; 6722 P-L, 4, 1, 0; 6735 P-L, 15, 3, 11; 6774 P-L, 24, 5, 5; 6793 P-L, 24, 5, 11; 6847 P-L, 5, 1, 0; 7072 P-L, 14, 3, 6; 7075 P-L, 18, 4, 3; 7082 P-L, 10, 2, 1; 9062 P-L, 19, 4, 3; 9097 P-L, 47, 8, 93; 9519 P-L, 18, 4, 5; 9520 P-L, 3, 1, 0; 9525 P-L, 14, 3, 2; 9538 P-L, 12, 3, 2; 9594 P-L, 5, 1, 0; 9607 P-L, 4, 1, 0; 1034 T-1, 35, 6, 594; 1043 T-1, 18, 4, 14; 1132 T-1, 26, 5, 6; 1137 T-1, 15, 3, 3; 1150 T-1, 5, 1, 0; 1178 T-1, 15, 3, 14; 1180 T-1, 7, 2, 906; 1236 T-1, 8, 2, 2; 1238 T-1, 21, 4, 3; 1273 T-1, 9, 2, 4; 2059 T-1, 15, 3, 486; 2128 T-1, 17, 4, 5; 2175 T-1, 39, 6, 6; 2198 T-1, 16, 4, 13; 2206 T-1, 30, 7, 92; 2236 T-1, 9, 2, 888; 2237 T-1, 27, 5, 14; 2287 T-1, 20, 4, 12; 3074 T-1, 7, 2, 1; 3106 T-1, 10, 2, 2; 3204 T-1, 5, 1, 0; 3232 T-1, 4, 1, 0; 3268 T-1, 5, 1, 0; 3747 T-1, 5, 1, 0; 4060 T-1, 4, 1, 0; 4104 T-1, 11, 3, 6; 4105 T-1, 16, 3, 2; 4195 T-1, 17, 4, 12; 4242 T-1, 5, 1, 0; 4264 T-1, 20, 4, 5; 4302 T-1, 19, 4, 12; 4311 T-1, 3, 1, 0; 4326 T-1, 5, 1, 0; 4406 T-1, 3, 1, 0; 4841 T-1, 5, 1, 0; 4845 T-1, 20, 4, 12; 1002 T-2, 9, 2, 1; 1013 T-2, 4, 1, 0; 1044 T-2, 9, 2, 34; 1066 T-2, 4, 1, 0; 1093 T-2, 9, 3, 3; 1100 T-2, 4, 1, 0; 1118 T-2, 19, 4, 38; 1131 T-2, 4, 1, 0; 1139 T-2, 15, 3, 5; 1160 T-2, 13, 3, 14; 1171 T-2, 15, 3, 14; 1174 T-2, 4, 1, 0; 1181 T-2, 15, 3, 25; 1184 T-2, 17, 4, 6; 1198 T-2, 13, 3, 10; 1213 T-2, 4, 1, 0; 1247 T-2, 15, 3, 10; 1263 T-2, 9, 2, 1; 1282 T-2, 30, 5, 5; 1314 T-2, 9, 2, 1; 1329 T-2, 15, 3, 8; 1343 T-2, 5, 1, 0; 1354 T-2, 7, 2, 7; 1504 T-2, 5, 1, 0; 2030 T-2, 9, 2, 1; 2031 T-2, 12, 3, 10; 2052 T-2, 24, 5, 6; 2058 T-2, 13, 3, 2; 2064 T-2, 5, 1, 0; 2066 T-2, 20, 4, 11; 2078 T-2, 10, 2, 1; 2085 T-2, 4, 1, 0; 2112 T-2, 8, 2, 1; 2127 T-2, 19, 5, 28; 2159 T-2, 9, 2, 1; 2216 T-2, 34, 6, 6; 2233 T-2, 8, 2, 1; 2237 T-2, 8, 2, 1; 2244 T-2, 10, 1, 0; 2259 T-2, 5, 1, 0; 2266 T-2, 5, 1, 0; 2284 T-2, 4, 1, 0; 3044 T-2, 3, 1, 0; 3063 T-2, 4, 1, 0; 3071 T-2, 18, 4, 12; 3072 T-2, 18, 4, 12; 3083 T-2, 4, 1, 0; 3096 T-2, 20, 3, 3; 3111 T-2, 10, 2, 5; 3130 T-2, 18, 4, 12; 3159 T-2, 10, 2, 18; 3234 T-2, 4, 1, 0; 3284 T-2, 5, 1, 0; 3335 T-2, 4, 1, 0; 3353 T-2, 17, 4, 3; 3370 T-2, 6, 2, 1; 4041 T-2, 4, 1, 0; 4071 T-2, 4, 1, 0; 4072 T-2, 5, 1, 0; 4091 T-2, 10, 2, 6; 4184 T-2, 15, 3, 10; 4215 T-2, 5, 1, 0; 4234 T-2, 19, 3, 3; 4258 T-2, 19, 4, 12; 4278 T-2, 11, 2, 1; 5049 T-2, 3, 1, 0; 5068 T-2, 5, 1, 0; 5081 T-2, 15, 3, 36; 5137 T-2, 30, 4, 11; 5146 T-2, 4, 1, 0; 5148 T-2, 5, 1, 0; 5158 T-2, 5, 1, 0; 5167 T-2, 12, 3, 340; 5168 T-2, 14, 3, 10; 5179 T-2, 5, 1, 0; 5366 T-2, 4, 1, 0; 1033 T-3, 4, 1, 0; 1055 T-3, 5, 1, 0; 1078 T-3, 4, 1, 0; 1085 T-3, 4, 1, 0; 1091 T-3, 9, 2, 1; 1093 T-3, 4, 1, 0; 1107 T-3, 3, 1, 0; 1132 T-3, 10, 2, 10; 1182 T-3, 5, 1, 0; 1183 T-3, 5, 1, 0; 1184 T-3, 14, 3, 11; 1206 T-3, 8, 2, 28; 2075 T-3, 18, 4, 3; 2110 T-3, 21, 5, 68; 2151 T-3, 9, 2, 7; 2152 T-3, 3, 1, 0; 2214 T-3, 11, 3, 14; 2239 T-3, 5, 1, 0; 2248 T-3, 5, 1, 0; 2271 T-3, 19, 4, 4; 2272 T-3, 7, 2, 9; 2324 T-3, 7, 2, 3; 2336 T-3, 8, 2, 4; 2369 T-3, 7, 2, 2; 2391 T-3, 3, 1, 0; 2407 T-3, 8, 2, 1; 2428 T-3, 3, 1, 0; 2430 T-3, 18, 4, 8; 2465 T-3, 4, 1, 0; 2616 T-3, 19, 4, 10; 3039 T-3, 5, 1, 0; 3041 T-3, 10, 2, 26; 3042 T-3, 13, 3, 61; 3084 T-3, 3, 1, 0; 3101 T-3, 4, 1, 0; 3149 T-3, 13, 3, 5; 3152 T-3, 19, 4, 450; 3160 T-3, 8, 2, 4; 3172 T-3, 9, 2, 11; 3175 T-3, 11, 3, 26; 3191 T-3, 4, 1, 0; 3256 T-3, 23, 5, 482; 3258 T-3, 16, 4, 34; 3265 T-3, 8, 2, 8; 3387 T-3, 4, 1, 0; 3466 T-3, 9, 2, 477; 3508 T-3, 13, 3, 33; 3524 T-3, 6, 2, 7; 3530 T-3, 4, 1, 0; 4032 T-3, 3, 1, 0; 4044 T-3, 5, 1, 0; 4052 T-3, 8, 2, 1; 4055 T-3, 7, 2, 25; 4070 T-3, 3, 1, 0; 4080 T-3, 19, 4, 10; 4203 T-3, 4, 1, 0; 4235 T-3, 9, 2, 5; 4266 T-3, 14, 3, 11; 4310 T-3, 19, 4, 15; 4340 T-3, 5, 1, 0; 4366 T-3, 11, 3, 8; 5014 T-3, 5, 1, 0; 5018 T-3, 15, 3, 11; 5046 T-3, 4, 1, 0; 5078 T-3, 10, 2, 28; 5082 T-3, 5, 1, 0; 5092 T-3, 13, 3, 11; 5107 T-3, 4, 1, 0; 5124 T-3, 10, 2, 10; 5130 T-3, 4, 1, 0; 5160 T-3, 19, 4, 15; 5188 T-3, 10, 2, 8; 5282 T-3, 12, 2, 4; 5739 T-3, 13, 3, 10; (6), 5, 1, 0; (14), 3, 1, 0; (18), 5, 2, 1; (26), 14, 5, 11; (35), 2, 1, 0; (39), 1, 1, 0; (43), 5, 1, 0; (45), 1, 1, 0; (46), 3, 1, 0; (49), 5, 2, 1; (51), 10, 3, 12; (52), 2, 1, 0; (54), 2, 1, 0; (62), 12, 3, 7; (67), 10, 3, 3; (70), 8, 3, 11; (72), 10, 2, 1; (74), 4, 2, 4; (75), 13, 3, 13; (77), 8, 2, 2; (86), 4, 1, 0; (97), 1, 1, 0; (98), 6, 2, 6; (102), 5, 1, 0; (103), 4, 2, 1; (104), 17, 4, 3; (106), 3, 1, 0; (109), 14, 3, 9; (121), 4, 2, 3; (126), 24, 5, 6; (129), 1, 1, 0; (130), 8, 3, 11; (133), 9, 3, 8; (137), 3, 1, 0; (138), 20, 3, 12; (146), 13, 3, 16; (152), 14, 4, 15; (155), 5, 1, 0; (161), 8, 2, 11; (163), 6, 2, 3; (164), 3, 1, 0; (167), 16, 4, 5; (171), 12, 3, 12; (176), 7, 3, 6; (177), 7, 2, 2; (180), 7, 2, 2; (181), 6, 2, 7; (183), 4, 1, 0; (185), 3, 1, 0; (187), 3, 1, 0; (190), 4, 1, 0; (191), 9, 3, 6; (196), 2, 2, 8; (197), 5, 2, 11; (200), 4, 2, 7; (201), 2, 1, 0; (202), 5, 1, 0; (206), 2, 1, 0; (208), 12, 4, 3; (209), 2, 1, 0; (217), 9, 2, 7; (218), 5, 1, 0; (225), 9, 2, 1; (229), 37, 6, 9; (233), 17, 4, 11; (234), 19, 4, 15; (236), 1, 1, 0; (239), 15, 3, 2; (240), 9, 3, 2; (245), 5, 2, 6; (246), 7, 2, 7; (250), 4, 2, 1; (252), 11, 3, 6; (253), 31, 6, 12; (254), 3, 1, 0; (256), 6, 2, 3; (257), 5, 1, 0; (258), 15, 5, 11; (264), 15, 3, 4; (265), 5, 1, 0; (268), 5, 1, 0; (269), 5, 1, 0; (270), 12, 3, 8; (271), 3, 2, 2; (272), 9, 3, 4; (277), 4, 1, 0; (281), 15, 3, 2; (283), 5, 1, 0; (284), 10, 2, 1; (285), 4, 1, 0; (287), 8, 3, 8; (293), 4, 1, 0; (294), 14, 3, 11; (295), 5, 2, 4; (297), 10, 2, 8; (301), 4, 1, 0; (302), 9, 2, 6; (304), 3, 1, 0; (305), 9, 3, 5; (306), 13, 3, 9; (307), 3, 1, 0; (309), 14, 3, 9; (310), 10, 2, 1; (312), 5, 1, 0; (313), 12, 3, 6; (314), 6, 2, 5; (315), 5, 1, 0; (317), 4, 1, 0; (319), 19, 4, 4;

(320), 5, 1, 0; (322), 4, 1, 0; (323), 5, 1, 0; (325), 9, 2, 8; (330), 14, 3, 9; (333), 12, 3, 3; (335), 16, 4, 12; (339), 20, 4, 12; (345), 2, 1, 0; (347), 3, 1, 0; (351), 3, 1, 0; (357), 13, 3, 9; (358), 8, 2, 1; (362), 15, 3, 14; (365), 3, 1, 0; (368), 46, 6, 14; (369), 19, 4, 16; (371), 1, 1, 0; (373), 4, 1, 0; (375), 5, 1, 0; (380), 14, 3, 11; (383), 18, 4, 13; (385), 3, 1, 0; (392), 4, 1, 0; (396), 8, 2, 1; (397), 3, 1, 0; (398), 10, 2, 7; (400), 3, 1, 0; (413), 4, 1, 0; (420), 5, 1, 0; (421), 5, 1, 0; (423), 3, 1, 0; (424), 3, 1, 0; (425), 8, 2, 8; (428), 10, 2, 8; (429), 2, 1, 0; (430), 3, 1, 0; (431), 10, 3, 2; (434), 5, 1, 0; (435), 10, 2, 7; (437), 4, 1, 0; (439), 4, 1, 0; (442), 8, 3, 6; (444), 10, 3, 6; (446), 7, 2, 1; (447), 18, 4, 12; (453), 5, 2, 8; (457), 5, 1, 0; (459), 15, 3, 2; (460), 9, 2, 1; (462), 10, 3, 13; (464), 3, 1, 0; (466), 4, 1, 0; (475), 15, 4, 11; (480), 9, 2, 3; (482), 4, 1, 0; (489), 5, 1, 0; (497), 4, 1, 0; (498), 12, 3, 9; (499), 10, 2, 2; (504), 10, 2, 9; (509), 4, 2, 6; (510), 6, 2, 5; (512), 3, 1, 0; (513), 8, 2, 3; (515), 25, 5, 7; (520), 7, 2, 2; (521), 7, 2, 5; (525), 6, 2, 1; (530), 5, 1, 0; (536), 5, 1, 0; (537), 10, 3, 9; (542), 6, 2, 1; (547), 6, 3, 6; (554), 5, 1, 0; (558), 7, 2, 6; (561), 4, 1, 0; (564), 5, 1, 0; (565), 3, 1, 0; (568), 5, 1, 0; (571), 9, 2, 8; (572), 12, 3, 6; (576), 5, 1, 0; (580), 20, 4, 12; (581), 5, 1, 0; (588), 8, 2, 8; (589), 4, 2, 5; (590), 9, 2, 9; (592), 5, 1, 0; (594), 4, 1, 0; (600), 9, 2, 1; (601), 3, 3, 7; (606), 3, 1, 0; (607), 4, 1, 0; (610), 4, 1, 0; (612), 12, 3, 6; (618), 3, 1, 0; (619), 10, 3, 6; (623), 5, 1, 0; (624), 7, 2, 6; (631), 6, 2, 6; (635), 7, 2, 3; (639), 9, 2, 7; (640), 5, 1, 0; (642), 20, 4, 3; (647), 9, 2, 1; (659), 5, 1, 0; (668), 11, 3, 5; (669), 5, 2, 7; (670), 20, 3, 5; (672), 23, 5, 4; (673), 7, 2, 1; (674), 3, 1, 0; (676), 8, 2, 7; (678), 1, 1, 0; (686), 2, 1, 0; (688), 5, 1, 0; (689), 15, 3, 6; (690), 8, 2, 1; (691), 14, 3, 10; (694), 2, 1, 0; (695), 3, 1, 0; (710), 39, 6, 6; (714), 4, 3, 4; (716), 8, 2, 5; (718), 13, 4, 12; (722), 4, 1, 0; (725), 19, 4, 12; (726), 5, 1, 0; (727), 7, 2, 1; (731), 14, 3, 10; (732), 4, 1, 0; (735), 14, 3, 11; (739), 1, 1, 0; (745), 5, 2, 1; (746), 5, 1, 0; (748), 9, 2, 2; (749), 10, 2, 8; (759), 10, 2, 8; (764), 7, 2, 1; (765), 8, 2, 6; (766), 21, 5, 13; (768), 10, 3, 4; (774), 9, 2, 1; (776), 7, 2, 12; (778), 10, 2, 7; (783), 24, 5, 16; (790), 3, 1, 0; (791), 5, 1, 0; (792), 5, 1, 0; (793), 13, 3, 11; (798), 6, 3, 8; (799), 4, 1, 0; (802), 5, 1, 0; (803), 9, 2, 1; (804), 5, 1, 0; (805), 5, 1, 0; (806), 5, 1, 0; (807), 5, 1, 0; (809), 9, 2, 7; (812), 18, 4, 13; (813), 10, 2, 1; (816), 10, 2, 9; (817), 15, 3, 10; (820), 4, 1, 0; (824), 21, 5, 16; (826), 8, 2, 1; (827), 8, 2, 1; (830), 15, 3, 3; (831), 4, 1, 0; (835), 49, 6, 14; (842), 19, 3, 5; (850), 8, 2, 1; (853), 16, 3, 7; (854), 2, 1, 0; (856), 7, 3, 6; (857), 17, 4, 16; (858), 9, 2, 9; (859), 11, 3, 2; (865), 15, 3, 9; (866), 3, 1, 0; (869), 8, 2, 1; (871), 8, 2, 3; (874), 4, 1, 0; (876), 15, 3, 6; (877), 8, 2, 1; (879), 4, 1, 0; (883), 8, 2, 7; (891), 10, 2, 10; (892), 3, 1, 0; (894), 9, 2, 1; (896), 5, 1, 0; (899), 2, 1, 0; (901), 10, 2, 4; (902), 10, 2, 8; (906), 5, 1, 0; (907), 11, 3, 4; (909), 20, 4, 15; (910), 2, 1, 0; (911), 21, 6, 11; (913), 5, 1, 0; (918), 5, 1, 0; (925), 3, 1, 0; (929), 9, 2, 1; (931), 15, 3, 6; (933), 12, 3, 11; (934), 10, 3, 6; (939), 19, 4, 11; (943), 11, 3, 9; (947), 10, 3, 4; (948), 10, 2, 8; (953), 19, 4, 14; (956), 10, 3, 7; (960), 5, 1, 0; (963), 4, 1, 0; (966), 2, 1, 0; (970), 5, 1, 0; (971), 15, 4, 11; (978), 3, 1, 0; (980), 9, 2, 1; (984), 8, 2, 7; (997), 10, 2, 1; (1000), 5, 1, 0; (1002), 7, 2, 8; (1010), 10, 2, 8; (1014), 10, 3, 4; (1015), 5, 2, 5; (1016), 8, 2, 8; (1017), 16, 4, 15; (1025), 9, 2, 7; (1026), 29, 5, 16; (1028), 4, 1, 0; (1030), 5, 1, 0; (1032), 5, 1, 0; (1033), 19, 4, 5; (1034), 4, 1, 0; (1035), 19, 4, 4; (1036), 3, 1, 0; (1037), 5, 1, 0; (1039), 10, 2, 1; (1041), 17, 4, 11; (1042), 20, 4, 9; (1043), 8, 2, 1; (1047), 10, 2, 1; (1052), 4, 1, 0; (1061), 15, 3, 2; (1062), 5, 1, 0; (1069), 15, 3, 8; (1070), 2, 1, 0; (1073), 18, 3, 5; (1079), 9, 2, 8; (1080), 10, 2, 8; (1093), 5, 1, 0; (1094), 3, 1, 0; (1095), 11, 3, 6; (1097), 20, 3, 5; (1099), 4, 1, 0; (1100), 34, 6, 6; (1102), 4, 1, 0; (1106), 10, 3, 7; (1108), 4, 1, 0; (1110), 15, 4, 10; (1111), 10, 2, 1; (1112), 9, 2, 7; (1115), 5, 1, 0; (1117), 5, 1, 0; (1121), 3, 1, 0; (1123), 5, 1, 0; (1127), 10, 2, 8; (1140), 17, 4, 11; (1143), 6, 2, 1; (1147), 9, 2, 1; (1148), 10, 2, 1; (1160), 5, 1, 0; (1161), 15, 3, 9; (1162), 5, 1, 0; (1163), 20, 4, 15; (1164), 6, 2, 5; (1171), 20, 4, 12; (1174), 5, 1, 0; (1177), 4, 1, 0; (1183), 29, 5, 5; (1186), 34, 7, 17; (1187), 3, 1, 0; (1188), 20, 3, 5; (1190), 15, 3, 8; (1191), 7, 2, 5; (1192), 10, 2, 6; (1193), 4, 1, 0; (1194), 5, 1, 0; (1196), 4, 1, 0; (1201), 4, 1, 0; (1209), 4, 1, 0; (1211), 8, 2, 1; (1213), 8, 2, 7; (1214), 8, 2, 7; (1215), 4, 1, 0; (1217), 5, 1, 0; (1218), 10, 2, 8; (1220), 13, 3, 11; (1222), 5, 1, 0; (1225), 23, 5, 5; (1226), 10, 2, 11; (1230), 7, 2, 3; (1237), 15, 3, 4; (1241), 4, 1, 0; (1242), 5, 1, 0; (1244), 1, 1, 0; (1245), 18, 4, 6; (1249), 5, 1, 0; (1251), 9, 2, 1; (1252), 3, 1, 0; (1261), 20, 4, 12; (1262), 9, 2, 8; (1264), 4, 1, 0; (1268), 10, 3, 9; (1271), 7, 2, 6; (1274), 15, 3, 7; (1275), 30, 6, 6; (1278), 1, 1, 0; (1280), 10, 2, 7; (1284), 8, 2, 7; (1286), 9, 2, 2; (1287), 2, 1, 0; (1288), 5, 1, 0; (1290), 5, 1, 0; (1292), 11, 3, 7; (1298), 5, 1, 0; (1299), 2, 1, 0; (1305), 14, 3, 13; (1306), 4, 1, 0; (1308), 6, 2, 8; (1315), 9, 3, 3; (1317), 18, 4, 13; (1318), 5, 1, 0; (1320), 7, 1, 0; (1328), 13, 3, 3; (1329), 5, 1, 0; (1330), 2, 1, 0; (1332), 3, 1, 0; (1335), 20, 4, 5; (1336), 13, 2, 1; (1338), 5, 1, 0; (1341), 11, 3, 6; (1347), 7, 2, 1; (1350), 2, 1, 0; (1351), 23, 5, 5; (1352), 5, 1, 0; (1354), 3, 1, 0; (1359), 3, 1, 0; (1364), 8, 2, 5; (1369), 8, 3, 6; (1373), 5, 1, 0; (1379), 13, 3, 7; (1386), 14, 3, 9; (1388), 5, 1, 0; (1389), 5, 1, 0; (1393), 8, 2, 11; (1394), 8, 2, 5; (1398), 8, 2, 1; (1400), 16, 3, 3; (1401), 4, 1, 0; (1404), 2, 1, 0; (1406), 5, 2, 2; (1410), 7, 2, 5; (1411), 6, 2, 7; (1412), 35, 6, 12; (1413), 5, 1, 0; (1416), 8, 2, 8; (1419), 5, 1, 0; (1424), 5, 1, 0; (1425), 14, 3, 5; (1427), 13, 3, 11; (1431), 9, 2, 10; (1433), 5, 1, 0; (1434), 5, 1, 0; (1436), 3, 1, 0; (1437), 4, 1, 0; (1443), 3, 1, 0; (1445), 15, 3, 2; (1448), 8, 2, 8; (1451), 14, 3, 7; (1458), 13, 3, 6; (1459), 5, 1, 0; (1460), 9, 2, 3; (1461), 9, 2, 9; (1462), 8, 2, 7; (1463), 19, 3, 4; (1466), 15, 3, 15; (1472), 17, 4, 13; (1474), 5, 1, 0; (1476), 5, 1, 0; (1477), 5, 1, 0; (1479),

2000 APR. 18

M.P.C. 39783

0; (1578), 15, 3, 2; (1581), 20, 4, 12; (1582), 10, 2, 9; (1585), 5, 1, 0; (1586), 19, 4, 15; (1596), 5, 1, 0; (1598), 6, 2, 5; (1602), 10, 2, 8; (1615), 29, 5, 5; (1616), 5, 1, 0; (1627), 18, 4, 16; (1628), 3, 1, 0; (1630), 19, 4, 12; (1636), 9, 2, 1; (1643), 4, 1, 0; (1647), 3, 1, 0; (1650), 4, 1, 0; (1651), 7, 3, 7; (1661), 13, 3, 9; (1666), 2, 1, 0; (1667), 4, 1, 0; (1673), 20, 4, 3; (1674), 9, 2, 8; (1680), 8, 2, 8; (1685), 5, 1, 0; (1692), 25, 5, 5; (1693), 14, 3, 10; (1695), 12, 3, 9; (1696), 10, 2, 8; (1697), 5, 1, 0; (1700), 5, 1, 0; (1702), 19, 4, 15; (1704), 10, 2, 1; (1705), 3, 1, 0; (1707), 20, 4, 6; (1708), 5, 1, 0; (1709), 5, 1, 0; (1710), 33, 5, 6; (1711), 3, 1, 0; (1713), 34, 7, 13; (1714), 1, 1, 0; (1717), 7, 2, 7; (1720), 20, 4, 6; (1723), 9, 2, 5; (1732), 3, 1, 0; (1733), 20, 4, 12; (1734), 20, 4, 6; (1737), 5, 2, 7; (1738), 13, 3, 13; (1740), 4, 1, 0; (1741), 14, 3, 2; (1742), 9, 2, 1; (1746), 7, 2, 7; (1748), 5, 1, 0; (1751), 7, 2, 7; (1754), 4, 1, 0; (1756), 10, 2, 8; (1757), 8, 2, 8; (1758), 15, 3, 9; (1762), 13, 3, 2; (1763), 10, 2, 1; (1769), 4, 1, 0; (1772), 5, 1, 0; (1774), 14, 3, 2; (1782), 5, 1, 0; (1783), 12, 3, 5; (1787), 6, 2, 7; (1788), 29, 5, 9; (1795), 3, 1, 0; (1799), 3, 1, 0; (1800), 9, 3, 6; (1802), 4, 1, 0; (1804), 8, 2, 8; (1807), 12, 3, 9; (1812), 14, 3, 6; (1815), 17, 4, 12; (1820), 4, 1, 0; (1821), 5, 1, 0; (1822), 4, 1, 0; (1823), 16, 4, 10; (1824), 10, 2, 8; (1827), 19, 4, 11; (1829), 10, 2, 5; (1830), 14, 3, 7; (1832), 4, 1, 0; (1837), 9, 2, 2; (1841), 5, 1, 0; (1842), 10, 2, 5; (1844), 5, 1, 0; (1845), 17, 4, 11; (1847), 5, 1, 0; (1848), 19, 3, 3; (1857), 13, 3, 3; (1866), 5, 2, 20; (1868), 5, 1, 0; (1874), 27, 5, 12; (1875), 3, 1, 0; (1877), 4, 1, 0; (1881), 3, 1, 0; (1883), 6, 2, 13; (1886), 6, 2, 5; (1887), 20, 4, 11; (1892), 6, 2, 5; (1893), 4, 1, 0; (1897), 5, 1, 0; (1898), 3, 1, 0; (1899), 8, 2, 11; (1906), 20, 4, 4; (1908), 2, 1, 0; (1911), 15, 3, 3; (1914), 19, 4, 15; (1917), 3, 1, 0; (1918), 5, 1, 0; (1926), 12, 3, 10; (1931), 4, 1, 0; (1934), 5, 1, 0; (1937), 10, 2, 1; (1938), 8, 2, 1; (1939), 18, 4, 6; (1941), 10, 2, 1; (1946), 13, 3, 9; (1950), 8, 2, 1; (1952), 19, 4, 16; (1955), 8, 2, 2; (1956), 10, 2, 1; (1957), 10, 2, 6; (1958), 5, 1, 0; (1960), 1, 1, 0; (1967), 3, 2, 6; (1968), 3, 1, 0; (1969), 8, 2, 1; (1970), 9, 2, 1; (1972), 6, 2, 2; (1973), 10, 2, 3; (1974), 3, 1, 0; (1975), 9, 2, 7; (1977), 9, 2, 8; (1978), 20, 4, 3; (1983), 4, 1, 0; (1991), 5, 1, 0; (1996), 13, 3, 13; (1999), 10, 2, 1; (2001), 10, 2, 7; (2003), 5, 1, 0; (2004), 5, 1, 0; (2006), 20, 4, 5; (2013), 5, 1, 0; (2017), 5, 1, 0; (2020), 8, 2, 5; (2022), 10, 2, 8; (2024), 5, 1, 0; (2029), 9, 2, 3; (2033), 3, 1, 0; (2034), 21, 4, 6; (2037), 8, 2, 2; (2048), 3, 1, 0; (2052), 5, 1, 0; (2056), 5, 1, 0; (2058), 4, 1, 0; (2066), 8, 2, 6; (2067), 5, 1, 0; (2068), 15, 3, 6; (2069), 35, 8, 16; (2070), 24, 5, 6; (2071), 4, 1, 0; (2074), 15, 3, 6; (2076), 20, 4, 11; (2077), 4, 1, 0; (2083), 4, 1, 0; (2086), 19, 4, 15; (2089), 10, 2, 1; (2090), 15, 3, 11; (2104), 5, 1, 0; (2106), 10, 2, 6; (2109), 9, 2, 1; (2110), 9, 2, 5; (2111), 7, 2, 1; (2119), 5, 1, 0; (2121), 4, 1, 0; (2123), 10, 2, 3; (2125), 20, 3, 3; (2130), 9, 2, 7; (2132), 9, 2, 8; (2133), 4, 1, 0; (2136), 13, 3, 9; (2139), 17, 4, 4; (2141), 5, 1, 0; (2142), 19, 4, 6; (2144), 15, 3, 3; (2145), 5, 1, 0; (2146), 5, 1, 0; (2150), 15, 3, 6; (2151), 19, 4, 3; (2156), 22, 4, 9; (2162), 3, 1, 0; (2166), 19, 4, 12; (2168), 20, 4, 11; (2170), 7, 2, 2; (2172), 4, 1, 0; (2173), 20, 4, 15; (2179), 13, 3, 13; (2180), 5, 1, 0; (2183), 10, 2, 10; (2184), 5, 1, 0; (2189), 14, 3, 11; (2192), 8, 2, 3; (2194), 5, 1, 0; (2200), 9, 2, 2; (2209), 15, 3, 2; (2210), 19, 4, 12; (2211), 5, 1, 0; (2220), 13, 3, 11; (2221), 3, 1, 0; (2227), 15, 3, 7; (2230), 14, 3, 2; (2235), 15, 3, 6; (2242), 13, 3, 5; (2243), 4, 1, 0; (2247), 5, 1, 0; (2250), 13, 3, 2; (2253), 5, 1, 0; (2254), 5, 1, 0; (2257), 4, 1, 0; (2268), 10, 2, 1; (2272), 9, 2, 7; (2277), 9, 2, 8; (2282), 13, 3, 5; (2283), 12, 3, 6; (2287), 4, 1, 0; (2290), 5, 1, 0; (2292), 14, 3, 7; (2294), 10, 2, 1; (2295), 20, 4, 11; (2298), 8, 2, 2; (2301), 5, 1, 0; (2302), 6, 2, 7; (2303), 25, 5, 5; (2304), 15, 3, 6; (2306), 9, 2, 1; (2309), 5, 1, 0; (2312), 20, 4, 3; (2315), 5, 1, 0; (2321), 5, 1, 0; (2323), 5, 1, 0; (2327), 5, 1, 0; (2328), 5, 1, 0; (2330), 17, 4, 16; (2331), 10, 2, 1; (2335), 13, 3, 9; (2336), 19, 4, 12; (2341), 5, 1, 0; (2342), 30, 4, 3; (2344), 13, 3, 13; (2349), 9, 2, 1; (2352), 10, 2, 7; (2356), 12, 3, 6; (2358), 10, 2, 7; (2364), 5, 1, 0; (2370), 25, 5, 5; (2371), 24, 5, 6; (2378), 12, 3, 6; (2386), 19, 4, 4; (2388), 14, 3, 3; (2390), 5, 1, 0; (2393), 4, 1, 0; (2396), 14, 3, 8; (2398), 10, 2, 1; (2399), 5, 1, 0; (2401), 8, 2, 8; (2404), 23, 4, 13; (2406), 5, 1, 0; (2413), 10, 2, 6; (2418), 4, 1, 0; (2419), 9, 2, 1; (2421), 14, 3, 6; (2422), 14, 3, 6; (2423), 10, 2, 3; (2424), 17, 3, 11; (2427), 4, 1, 0; (2429), 29, 5, 5; (2430), 5, 1, 0; (2440), 27, 6, 14; (2442), 7, 2, 1; (2447), 18, 4, 15; (2459), 14, 3, 8; (2466), 9, 2, 7; (2468), 28, 6, 11; (2471), 35, 5, 5; (2472), 4, 1, 0; (2474), 5, 1, 0; (2475), 3, 1, 0; (2477), 4, 1, 0; (2478), 9, 2, 1; (2481), 4, 1, 0; (2485), 5, 1, 0; (2489), 5, 1, 0; (2491), 5, 1, 0; (2496), 5, 1, 0; (2498), 13, 3, 5; (2500), 8, 2, 4; (2505), 5, 1, 0; (2511), 5, 1, 0; (2512), 15, 3, 14; (2513), 8, 2, 1; (2516), 19, 4, 6; (2517), 15, 3, 2; (2524), 5, 1, 0; (2525), 5, 1, 0; (2529), 25, 5, 5; (2531), 15, 3, 6; (2532), 5, 1, 0; (2533), 28, 6, 6; (2535), 4, 1, 0; (2536), 5, 1, 0; (2539), 24, 5, 5; (2543), 5, 1, 0; (2545), 5, 1, 0; (2546), 10, 2, 1; (2548), 5, 1, 0; (2551), 5, 1, 0; (2553), 14, 3, 13; (2556), 10, 2, 8; (2558), 5, 1, 0; (2560), 9, 2, 1; (2563), 15, 3, 2; (2567), 10, 2, 1; (2569), 20, 4, 15; (2571), 14, 3, 2; (2573), 8, 2, 5; (2574), 9, 2, 2; (2582), 7, 2, 17; (2583), 5, 1, 0; (2585), 8, 2, 7; (2587), 8, 2, 8; (2592), 19, 4, 3; (2602), 4, 1, 0; (2603), 3, 1, 0; (2605), 13, 3, 6; (2609), 10, 2, 1; (2614), 5, 1, 0; (2615), 13, 3, 3; (2617), 21, 4, 9; (2629), 5, 1, 0; (2630), 7, 2, 2; (2640), 4, 1, 0; (2641), 5, 1, 0; (2643), 14, 3, 8; (2645), 10, 2, 8; (2650), 5, 1, 0; (2651), 4, 1, 0; (2652), 18, 4, 15; (2653), 5, 1, 0; (2662), 21, 4, 4; (2666), 10, 2, 5; (2668), 4, 1, 0; (2671), 8, 2, 1; (2672), 8, 2, 10; (2680), 8, 2, 7; (2681), 20, 4, 12; (2697), 13, 3, 9; (2698), 4, 1, 0; (2699), 13, 3, 9; (2702), 5, 1, 0; (2704), 8, 2, 4; (2708), 8, 2, 1; (2715), 5, 1, 0; (2721), 20, 4, 5; (2724), 5, 1, 0; (2726), 5, 1, 0; (2728), 7, 2, 1; (2732), 20, 4, 7; (2742), 5, 1, 0; (2752), 3, 1, 0; (2755), 16, 4, 11; (2758), 4, 1, 0; (2760), 15, 3, 3; (2763), 13, 3, 9; (2767), 20, 4, 4; (2775), 2, 1, 0; (2776), 20, 4, 6; (2785), 4, 1, 0; (2798), 25, 4, 11; (2802), 17, 4, 11; (2805), 4, 1, 0; (2806), 5, 1, 0; (2809), 8, 2, 2; (2813), 8, 2, 7; (2819), 29, 5, 5; (2820), 8, 2, 1; (2822), 5, 1, 0; (2823), 13, 3, 9; (2825), 8, 2, 8; (2826), 17, 4, 16; (2829), 4, 1, 0; (2833), 5, 1, 0; (2839), 32, 7, 11; (2844), 5, 1, 0; (2845), 4, 1, 0; (2849), 5, 1, 0; (2854), 10, 2, 7; (2859), 4, 1, 0; (2867), 14, 3, 14; (2869), 10, 2, 7; (2871), 5, 1, 0; (2876), 14, 3, 13; (2877), 44, 5, 12; (2878), 3, 1, 0; (2880), 8,

2, 2; (2881), 5, 1, 0; (2883), 10, 2, 6; (2887), 10, 2, 7; (2889), 19, 4, 11; (2890), 7, 2, 6; (2892), 8, 2, 2; (2896), 15, 3, 6; (2898), 10, 2, 10; (2902), 8, 2, 1; (2903), 11, 3, 4; (2904), 14, 3, 11; (2906), 3, 1, 0; (2907), 10, 2, 5; (2913), 19, 4, 15; (2915), 8, 2, 1; (2916), 5, 1, 0; (2923), 8, 2, 6; (2926), 5, 1, 0; (2927), 10, 2, 10; (2930), 24, 5, 5; (2931), 5, 1, 0; (2933), 15, 3, 6; (2937), 5, 1, 0; (2938), 5, 1, 0; (2943), 8, 2, 8; (2946), 5, 1, 0; (2948), 5, 1, 0; (2950), 13, 3, 6; (2953), 9, 2, 1; (2956), 14, 3, 13; (2958), 4, 1, 0; (2960), 9, 2, 8; (2963), 8, 2, 7; (2966), 13, 3, 5; (2969), 9, 2, 5; (2974), 20, 4, 3; (2975), 9, 2, 1; (2977), 18, 3, 5; (2985), 10, 2, 7; (2990), 19, 3, 5; (2998), 33, 6, 6; (3001), 15, 2, 1; (3003), 5, 1, 0; (3005), 5, 1, 0; (3006), 5, 1, 0; (3012), 4, 1, 0; (3014), 30, 6, 9; (3017), 5, 1, 0; (3018), 31, 6, 14; (3023), 9, 2, 1; (3026), 3, 1, 0; (3038), 10, 2, 2; (3041), 5, 1, 0; (3043), 5, 1, 0; (3044), 5, 1, 0; (3049), 5, 1, 0; (3051), 10, 2, 1; (3055), 5, 1, 0; (3062), 18, 4, 15; (3063), 5, 1, 0; (3066), 14, 3, 5; (3067), 10, 1, 0; (3068), 10, 2, 7; (3072), 3, 1, 0; (3078), 5, 1, 0; (3080), 4, 1, 0; (3081), 14, 3, 2; (3082), 9, 2, 5; (3087), 5, 1, 0; (3088), 14, 3, 6; (3090), 15, 3, 6; (3094), 5, 1, 0; (3107), 5, 1, 0; (3111), 5, 1, 0; (3115), 5, 1, 0; (3116), 23, 5, 16; (3119), 5, 1, 0; (3127), 8, 2, 1; (3128), 7, 2, 8; (3129), 5, 1, 0; (3135), 13, 2, 8; (3136), 13, 3, 11; (3138), 3, 1, 0; (3140), 18, 4, 9; (3141), 8, 2, 7; (3144), 9, 2, 2; (3145), 3, 1, 0; (3149), 8, 2, 1; (3150), 5, 1, 0; (3152), 5, 1, 0; (3155), 5, 1, 0; (3165), 19, 4, 12; (3166), 5, 1, 0; (3179), 19, 4, 6; (3180), 5, 1, 0; (3184), 18, 4, 11; (3187), 12, 3, 9; (3193), 4, 1, 0; (3205), 15, 3, 9; (3207), 5, 1, 0; (3223), 3, 1, 0; (3229), 3, 1, 0; (3250), 15, 3, 8; (3254), 5, 1, 0; (3255), 5, 1, 0; (3262), 5, 1, 0; (3263), 13, 3, 9; (3265), 14, 3, 10; (3283), 15, 3, 3; (3289), 20, 4, 6; (3290), 5, 1, 0; (3295), 8, 2, 5; (3296), 5, 1, 0; (3298), 24, 5, 13; (3300), 9, 2, 5; (3316), 5, 1, 0; (3319), 19, 4, 11; (3325), 5, 1, 0; (3327), 28, 5, 5; (3330), 24, 4, 6; (3331), 5, 1, 0; (3333), 5, 1, 0; (3335), 5, 1, 0; (3338), 3, 1, 0; (3339), 5, 1, 0; (3341), 5, 1, 0; (3342), 12, 3, 6; (3343), 15, 3, 6; (3346), 3, 1, 0; (3347), 15, 3, 2; (3348), 9, 2, 7; (3350), 5, 1, 0; (3351), 13, 3, 6; (3355), 9, 2, 6; (3356), 3, 1, 0; (3357), 12, 3, 9; (3359), 8, 2, 6; (3364), 4, 1, 0; (3368), 5, 1, 0; (3370), 9, 2, 6; (3372), 8, 2, 8; (3374), 15, 3, 2; (3375), 35, 6, 6; (3382), 5, 1, 0; (3383), 10, 2, 1; (3387), 4, 1, 0; (3391), 9, 2, 1; (3394), 5, 1, 0; (3396), 15, 3, 2; (3404), 3, 1, 0; (3405), 5, 1, 0; (3417), 15, 3, 9; (3410), 9, 2, 8; (3411), 8, 2, 1; (3412), 10, 2, 4; (3413), 5, 1, 0; (3420), 9, 2, 1; (3421), 15, 3, 3; (3426), 14, 3, 13; (3427), 8, 2, 1; (3428), 3, 1, 0; (3435), 8, 2, 1; (3439), 22, 4, 6; (3443), 5, 1, 0; (3447), 21, 4, 11; (3450), 5, 1, 0; (3454), 9, 2, 2; (3456), 14, 3, 13; (3460), 3, 1, 0; (3465), 9, 2, 8; (3466), 4, 1, 0; (3469), 3, 1, 0; (3470), 9, 2, 1; (3473), 5, 1, 0; (3477), 20, 4, 6; (3478), 5, 1, 0; (3479), 10, 2, 5; (3486), 3, 1, 0; (3488), 3, 1, 0; (3491), 8, 2, 1; (3494), 12, 3, 6; (3501), 13, 3, 9; (3504), 5, 1, 0; (3505), 3, 1, 0; (3506), 10, 2, 8; (3510), 10, 2, 1; (3525), 10, 2, 2; (3530), 18, 4, 3; (3537), 8, 2, 1; (3538), 9, 2, 1; (3540), 5, 1, 0; (3542), 5, 1, 0; (3543), 5, 1, 0; (3547), 13, 3, 9; (3552), 8, 2, 7; (3558), 3, 1, 0; (3564), 5, 1, 0; (3565), 15, 3, 9; (3568), 4, 1, 0; (3572), 10, 2, 1; (3578), 5, 1, 0; (3582), 8, 2, 4; (3584), 13, 3, 5; (3586), 33, 5, 5; (3593), 24, 5, 5; (3596), 10, 2, 19; (3597), 30, 6, 7; (3601), 14, 3, 2; (3603), 4, 1, 0; (3604), 5, 1, 0; (3606), 5, 1, 0; (3608), 5, 1, 0; (3610), 19, 4, 13; (3612), 13, 3, 2; (3616), 10, 2, 8; (3618), 17, 4, 3; (3621), 5, 1, 0; (3625), 19, 4, 3; (3626), 9, 2, 4; (3644), 9, 2, 8; (3647), 8, 2, 8; (3658), 14, 3, 3; (3662), 13, 3, 5; (3664), 20, 4, 7; (3666), 5, 1, 0; (3668), 20, 4, 4; (3669), 3, 1, 0; (3672), 38, 5, 5; (3676), 4, 1, 0; (3677), 18, 3, 4; (3679), 5, 1, 0; (3681), 15, 3, 10; (3686), 8, 2, 1; (3687), 5, 1, 0; (3689), 26, 5, 8; (3690), 7, 2, 1; (3692), 9, 2, 4; (3695), 4, 1, 0; (3696), 5, 1, 0; (3698), 8, 2, 1; (3701), 8, 2, 3; (3709), 5, 1, 0; (3719), 10, 2, 4; (3720), 24, 5, 5; (3721), 5, 1, 0; (3724), 3, 1, 0; (3726), 10, 2, 1; (3733), 13, 3, 5; (3736), 8, 2, 1; (3737), 4, 1, 0; (3740), 5, 1, 0; (3741), 8, 2, 1; (3747), 10, 2, 20; (3750), 5, 1, 0; (3756), 4, 1, 0; (3768), 26, 5, 15; (3772), 5, 1, 0; (3776), 5, 1, 0; (3782), 10, 2, 7; (3784), 10, 2, 6; (3785), 18, 4, 6; (3786), 10, 2, 1; (3789), 5, 1, 0; (3793), 5, 1, 0; (3795), 5, 1, 0; (3800), 5, 1, 0; (3808), 10, 2, 5; (3811), 8, 2, 8; (3812), 5, 1, 0; (3815), 14, 3, 6; (3818), 25, 5, 5; (3820), 10, 2, 4; (3821), 15, 3, 2; (3828), 12, 3, 9; (3830), 5, 1, 0; (3834), 5, 1, 0; (3845), 4, 1, 0; (3861), 25, 5, 5; (3862), 19, 4, 15; (3864), 5, 1, 0; (3865), 19, 4, 11; (3866), 19, 4, 6; (3869), 15, 3, 3; (3875), 5, 1, 0; (3879), 5, 1, 0; (3881), 4, 1, 0; (3883), 19, 4, 13; (3892), 9, 2, 10; (3894), 20, 4, 15; (3896), 5, 1, 0; (3901), 5, 1, 0; (3903), 10, 2, 5; (3904), 9, 2, 1; (3906), 5, 1, 0; (3909), 5, 1, 0; (3910), 5, 1, 0; (3914), 10, 1, 0; (3918), 5, 1, 0; (3920), 4, 1, 0; (3921), 15, 3, 9; (3924), 8, 2, 7; (3934), 18, 4, 10; (3941), 5, 1, 0; (3943), 6, 2, 7; (3949), 14, 3, 6; (3955), 5, 1, 0; (3956), 15, 4, 10; (3959), 34, 5, 5; (3964), 5, 1, 0; (3969), 15, 3, 2; (3971), 4, 1, 0; (3972), 8, 2, 1; (3975), 18, 4, 3; (3976), 5, 1, 0; (3977), 13, 3, 6; (3978), 5, 1, 0; (3982), 10, 2, 1; (3985), 10, 2, 9; (3986), 10, 2, 1; (3987), 13, 3, 4; (3990), 8, 2, 1; (3998), 13, 3, 9; (4001), 19, 4, 15; (4004), 5, 1, 0; (4007), 10, 2, 6; (4010), 5, 1, 0; (4012), 14, 3, 3; (4013), 25, 4, 3; (4017), 5, 1, 0; (4020), 5, 1, 0; (4021), 4, 1, 0; (4023), 10, 2, 2; (4024), 20, 4, 15; (4025), 8, 2, 1; (4027), 10, 2, 1; (4032), 15, 3, 2; (4039), 10, 2, 1; (4044), 3, 1, 0; (4055), 20, 4, 16; (4057), 5, 1, 0; (4058), 5, 1, 0; (4063), 5, 1, 0; (4071), 5, 1, 0; (4073), 5, 1, 0; (4074), 8, 2, 1; (4075), 3, 1, 0; (4078), 15, 3, 10; (4079), 5, 1, 0; (4081), 9, 2, 5; (4082), 5, 1, 0; (4084), 5, 1, 0; (4086), 5, 1, 0; (4090), 9, 2, 2; (4091), 5, 1, 0; (4094), 15, 3, 3; (4098), 5, 1, 0; (4100), 15, 3, 6; (4103), 16, 4, 11; (4112), 4, 1, 0; (4114), 4, 1, 0; (4115), 5, 1, 0; (4117), 22, 4, 9; (4120), 20, 4, 12; (4121), 5, 1, 0; (4126), 11, 3, 13; (4130), 10, 2, 5; (4131), 10, 2, 7; (4133), 9, 2, 1; (4136), 5, 1, 0; (4138), 5, 1, 0; (4140), 24, 4, 15; (4144), 5, 1, 0; (4150), 20, 4, 12; (4153), 3, 1, 0; (4154), 4, 1, 0; (4155), 5, 1, 0; (4160), 8, 2, 3; (4170), 13, 3, 6; (4173), 8, 2, 1; (4184), 5

3; (4285), 4, 1, 0; (4288), 14, 3, 10; (4292), 5, 1, 0; (4293), 5, 1, 0; (4294), 4, 1, 0; (4300), 20, 4, 4; (4303), 7, 2, 8; (4311), 3, 1, 0; (4313), 31, 6, 16; (4323), 7, 2, 4; (4325), 39, 7, 11; (4327), 15, 3, 15; (4336), 5, 1, 0; (4339), 13, 3, 8; (4340), 5, 1, 0; (4342), 3, 1, 0; (4344), 5, 1, 0; (4346), 3, 1, 0; (4349), 15, 3, 8; (4352), 5, 1, 0; (4354), 13, 3, 2; (4358), 5, 1, 0; (4359), 4, 1, 0; (4360), 21, 5, 13; (4365), 10, 2, 2; (4367), 5, 1, 0; (4373), 10, 2, 1; (4376), 8, 2, 1; (4378), 8, 2, 8; (4396), 5, 1, 0; (4404), 8, 2, 14; (4406), 5, 1, 0; (4407), 7, 2, 2; (4411), 20, 4, 7; (4416), 13, 3, 3; (4417), 8, 2, 7; (4418), 5, 1, 0; (4424), 6, 2, 5; (4427), 8, 2, 3; (4432), 5, 1, 0; (4443), 4, 1, 0; (4445), 3, 1, 0; (4451), 5, 1, 0; (4453), 8, 2, 8; (4455), 5, 1, 0; (4457), 5, 1, 0; (4459), 7, 2, 1; (4460), 5, 1, 0; (4461), 11, 3, 11; (4462), 5, 1, 0; (4464), 5, 1, 0; (4468), 10, 2, 2; (4471), 5, 1, 0; (4484), 5, 1, 0; (4485), 10, 2, 1; (4486), 5, 1, 0; (4491), 11, 3, 9; (4492), 19, 4, 11; (4496), 5, 1, 0; (4498), 3, 1, 0; (4499), 4, 1, 0; (4500), 5, 1, 0; (4501), 5, 1, 0; (4504), 8, 2, 1; (4505), 9, 2, 8; (4506), 19, 4, 12; (4507), 15, 3, 2; (4511), 5, 1, 0; (4513), 5, 1, 0; (4514), 4, 1, 0; (4518), 3, 1, 0; (4520), 15, 3, 10; (4521), 4, 1, 0; (4529), 18, 4, 15; (4530), 8, 2, 1; (4531), 15, 3, 8; (4532), 13, 3, 6; (4536), 10, 2, 2; (4537), 5, 1, 0; (4541), 5, 1, 0; (4542), 14, 3, 10; (4548), 5, 1, 0; (4555), 12, 3, 9; (4556), 14, 3, 11; (4557), 13, 3, 9; (4559), 5, 1, 0; (4562), 5, 1, 0; (4570), 4, 1, 0; (4571), 19, 4, 5; (4576), 8, 2, 5; (4579), 4, 1, 0; (4589), 10, 2, 3; (4590), 5, 1, 0; (4591), 22, 13; (4600), 8, 2, 5; (4608), 5, 1, 0; (4609), 14, 3, 6; (4610), 13, 3, 13; (4613), 10, 2, 1; (4615), 4, 1, 0; (4617), 3, 1, 0; (4621), 11, 2, 3; (4625), 4, 1, 0; (4633), 15, 3, 2; (4634), 8, 2, 2; (4635), 18, 4, 13; (4642), 14, 3, 2; (4643), 11, 3, 13; (4655), 10, 2, 1; (4661), 4, 1, 0; (4671), 3, 1, 0; (4673), 4, 1, 0; (4675), 13, 3, 6; (4684), 27, 5, 8; (4686), 9, 2, 2; (4695), 10, 2, 5; (4697), 5, 1, 0; (4700), 22, 5, 11; (4711), 10, 3, 6; (4719), 10, 2, 8; (4738), 13, 3, 3; (4740), 3, 1, 0; (4741), 15, 3, 2; (4744), 5, 1, 0; (4748), 5, 1, 0; (4753), 14, 2, 1; (4763), 8, 2, 8; (4766), 15, 3, 6; (4767), 4, 1, 0; (4771), 4, 1, 0; (4783), 10, 2, 9; (4790), 18, 4, 10; (4793), 30, 5, 12; (4794), 6, 2, 1; (4801), 7, 2, 4; (4804), 14, 3, 16; (4809), 4, 1, 0; (4816), 5, 1, 0; (4823), 4, 1, 0; (4833), 4, 1, 0; (4834), 5, 1, 0; (4836), 5, 1, 0; (4850), 18, 4, 6; (4860), 5, 1, 0; (4861), 19, 4, 10; (4862), 4, 1, 0; (4872), 10, 2, 9; (4874), 11, 3, 11; (4876), 8, 2, 1; (4879), 3, 1, 0; (4880), 9, 3, 6; (4883), 9, 2, 3; (4890), 5, 1, 0; (4891), 5, 1, 0; (4901), 5, 1, 0; (4908), 29, 6, 6; (4912), 5, 1, 0; (4916), 20, 4, 15; (4923), 9, 2, 1; (4924), 9, 2, 1; (4925), 18, 4, 11; (4928), 19, 4, 3; (4929), 5, 1, 0; (4931), 4, 1, 0; (4932), 4, 1, 0; (4934), 15, 3, 2; (4935), 14, 3, 11; (4936), 9, 2, 1; (4939), 9, 2, 8; (4940), 19, 4, 6; (4941), 17, 4, 6; (4942), 5, 1, 0; (4946), 5, 1, 0; (4949), 12, 3, 13; (4952), 9, 2, 1; (4954), 10, 2, 8; (4956), 10, 3, 11; (4958), 8, 2, 7; (4959), 18, 4, 11; (4960), 15, 3, 2; (4961), 5, 1, 0; (4962), 3, 1, 0; (4967), 9, 2, 5; (4968), 4, 1, 0; (4971), 10, 2, 8; (4976), 5, 1, 0; (4980), 20, 4, 6; (4981), 4, 1, 0; (4983), 9, 2, 1; (4985), 29, 6, 9; (4987), 5, 1, 0; (4988), 4, 1, 0; (4995), 5, 1, 0; (4996), 4, 1, 0; (5002), 5, 1, 0; (5004), 12, 3, 13; (5005), 24, 5, 5; (5006), 5, 1, 0; (5012), 4, 1, 0; (5016), 13, 3, 5; (5017), 20, 4, 15; (5020), 14, 3, 6; (5022), 5, 1, 0; (5024), 8, 2, 7; (5027), 3, 1, 0; (5028), 5, 1, 0; (5030), 9, 2, 7; (5037), 15, 3, 6; (5038), 5, 1, 0; (5043), 12, 3, 2; (5050), 25, 5, 4; (5052), 4, 1, 0; (5053), 17, 4, 9; (5058), 10, 2, 5; (5062), 18, 4, 3; (5066), 5, 1, 0; (5069), 8, 2, 1; (5077), 5, 1, 0; (5080), 13, 3, 9; (5082), 4, 1, 0; (5085), 23, 4, 4; (5089), 9, 2, 6; (5090), 4, 1, 0; (5099), 5, 1, 0; (5100), 9, 2, 8; (5105), 5, 1, 0; (5108), 9, 2, 7; (5111), 10, 2, 4; (5114), 23, 4, 6; (5116), 19, 4, 3; (5121), 4, 1, 0; (5126), 5, 1, 0; (5127), 10, 2, 5; (5129), 15, 3, 9; (5137), 3, 1, 0; (5140), 3, 1, 0; (5142), 23, 5, 5; (5147), 5, 1, 0; (5153), 5, 1, 0; (5157), 8, 2, 2; (5158), 4, 1, 0; (5160), 8, 2, 5; (5163), 5, 1, 0; (5165), 18, 4, 13; (5168), 14, 3, 10; (5171), 8, 1, 0; (5172), 5, 1, 0; (5174), 5, 1, 0; (5177), 14, 3, 3; (5179), 3, 1, 0; (5180), 19, 4, 15; (5181), 26, 5, 13; (5182), 9, 2, 1; (5186), 10, 2, 8; (5188), 9, 2, 6; (5200), 19, 4, 13; (5203), 20, 4, 11; (5204), 40, 7, 9; (5207), 5, 1, 0; (5213), 15, 3, 5; (5216), 20, 4, 16; (5218), 5, 1, 0; (5228), 14, 3, 2; (5231), 18, 4, 16; (5243), 4, 1, 0; (5249), 14, 3, 2; (5250), 5, 1, 0; (5253), 10, 2, 22; (5254), 5, 1, 0; (5255), 5, 1, 0; (5256), 8, 2, 3; (5260), 20, 4, 15; (5268), 13, 3, 9; (5269), 4, 1, 0; (5270), 13, 3, 6; (5271), 23, 5, 16; (5272), 9, 2, 1; (5273), 30, 6, 6; (5276), 7, 2, 6; (5280), 12, 3, 6; (5282), 10, 2, 8; (5283), 5, 1, 0; (5284), 5, 1, 0; (5285), 5, 1, 0; (5287), 20, 4, 15; (5289), 8, 2, 1; (5292), 20, 4, 16; (5293), 19, 4, 16; (5299), 5, 1, 0; (5300), 8, 2, 7; (5303), 13, 3, 13; (5306), 19, 4, 13; (5307), 9, 2, 1; (5314), 5, 1, 0; (5317), 5, 1, 0; (5320), 14, 3, 3; (5321), 14, 3, 3; (5327), 23, 5, 15; (5329), 13, 3, 9; (5331), 20, 4, 15; (5343), 5, 1, 0; (5353), 35, 6, 6; (5356), 12, 3, 6; (5358), 3, 1, 0; (5360), 10, 2, 19; (5372), 5, 1, 0; (5382), 4, 1, 0; (5383), 19, 4, 13; (5385), 4, 1, 0; (5393), 5, 1, 0; (5398), 5, 1, 0; (5402), 4, 1, 0; (5403), 5, 1, 0; (5411), 5, 1, 0; (5414), 18, 4, 3; (5415), 10, 2, 1; (5417), 4, 1, 0; (5419), 10, 2, 4; (5422), 20, 4, 3; (5428), 10, 2, 5; (5429), 23, 5, 6; (5434), 10, 2, 5; (5436), 7, 2, 1; (5437), 4, 1, 0; (5440), 9, 2, 8; (5441), 3, 1, 0; (5446), 28, 5, 13; (5449), 5, 1, 0; (5450), 9, 2, 7; (5453), 5, 1, 0; (5454), 20, 4, 11; (5456), 4, 1, 0; (5458), 14, 3, 3; (5460), 10, 2, 1; (5461), 12, 3, 8; (5462), 3, 1, 0; (5464), 4, 1, 0; (5469), 3, 1, 0; (5472), 3, 1, 0; (5479), 13, 3, 3; (5490), 4, 1, 0; (5491), 15, 3, 1; (5495), 5, 1, 0; (5498), 5, 1, 0; (5499), 9, 2, 5; (5500), 19, 4, 15; (5506), 10, 2, 8; (5509), 5, 1, 0; (5510), 31, 7, 13; (5525), 15, 3, 3; (5527), 9, 2, 1; (5528), 4, 1, 0; (5529), 3, 1, 0; (5530), 8, 2, 8; (5537), 3, 1, 0; (5547), 5, 1, 0; (5550), 20, 4, 5; (5551), 4, 1, 0; (5559), 5, 1, 0; (5560), 14, 3, 9; (5568), 5, 1, 0; (5569), 8, 2, 8; (5570), 5, 1, 0; (5575), 7, 2, 2; (5577), 4, 1, 0; (5580), 5, 1, 0; (5581), 5, 1, 0; (5586), 5, 1, 0; (5599), 4, 1, 0; (5600), 15, 3, 9; (5603), 13, 3, 5; (5604), 5, 1, 0; (5605), 24, 5, 5; (5606), 13, 3, 6; (5612), 5, 1, 0; (5613), 20, 4, 4; (5617), 5, 1, 0; (5618), 8, 2, 6; (5621), 5, 1, 0; (5625), 4, 1, 0; (5630), 4, 1, 0; (5631), 10, 2, 5; (5640), 5, 1, 0; (5641), 5, 1, 0; (5650), 8, 2, 7; (5652), 4, 1, 0; (5655), 5, 1, 0; (5656), 18, 4, 11; (5658), 4, 1, 0; (5666), 8, 2, 2; (5671), 20, 4, 12; (5682), 4, 1, 0; (5688), 18, 4, 13; (5692), 4, 1, 0; (5700), 3, 1, 0; (5701), 19, 4, 12; (5721), 34, 5, 12; (5730), 8, 2, 8; (5734), 4, 1, 0; (5736), 9, 1, 0; (5739), 4, 1, 0; (5740), 8, 2, 2; (5741), 5, 1, 0; (5755), 9, 2, 1; (5759), 5, 1, 0; (5771), 5, 1, 0; (5775), 9, 2, 1; (5776), 8, 2, 7;

(5777), 11, 3, 6; (5784), 3, 1, 0; (5790), 25, 5, 5; (5793), 10, 2, 9; (5795), 5, 1, 0; (5799), 20, 4, 11; (5803), 14, 3, 10; (5806), 5, 1, 0; (5807), 17, 3, 3; (5809), 10, 2, 4; (5811), 3, 1, 0; (5814), 5, 1, 0; (5816), 4, 1, 0; (5823), 5, 1, 0; (5826), 5, 1, 0; (5831), 3, 1, 0; (5834), 5, 1, 0; (5835), 5, 1, 0; (5838), 9, 2, 5; (5840), 8, 2, 2; (5844), 5, 1, 0; (5849), 10, 2, 8; (5851), 9, 3, 6; (5852), 4, 1, 0; (5854), 5, 1, 0; (5866), 14, 3, 7; (5867), 13, 3, 8; (5876), 3, 1, 0; (5881), 12, 3, 2; (5886), 20, 4, 15; (5889), 5, 1, 0; (5890), 15, 3, 10; (5894), 4, 1, 0; (5898), 6, 2, 2; (5899), 5, 1, 0; (5902), 5, 1, 0; (5905), 4, 1, 0; (5914), 5, 1, 0; (5919), 8, 2, 8; (5920), 9, 2, 7; (5922), 5, 1, 0; (5926), 5, 1, 0; (5927), 9, 2, 2; (5928), 3, 1, 0; (5933), 3, 1, 0; (5934), 5, 1, 0; (5936), 5, 1, 0; (5940), 13, 3, 2; (5942), 20, 4, 15; (5945), 4, 1, 0; (5946), 10, 2, 3; (5950), 15, 3, 11; (5958), 9, 2, 3; (5959), 12, 3, 5; (5970), 4, 1, 0; (5980), 13, 3, 9; (5981), 5, 1, 0; (5986), 5, 1, 0; (5993), 14, 3, 7; (6004), 20, 4, 11; (6018), 9, 2, 8; (6019), 3, 1, 0; (6022), 5, 1, 0; (6038), 5, 1, 0; (6039), 15, 3, 6; (6043), 8, 2, 1; (6045), 19, 4, 4; (6046), 5, 1, 0; (6054), 10, 2, 1; (6058), 16, 4, 10; (6061), 5, 1, 0; (6062), 8, 2, 1; (6064), 18, 4, 12; (6065), 5, 1, 0; (6067), 13, 3, 9; (6069), 20, 4, 4; (6070), 8, 2, 7; (6073), 5, 1, 0; (6074), 9, 2, 3; (6082), 10, 2, 1; (6084), 3, 1, 0; (6085), 25, 5, 5; (6090), 10, 2, 1; (6091), 5, 1, 0; (6092), 5, 1, 0; (6093), 3, 1, 0; (6095), 13, 3, 6; (6096), 4, 1, 0; (6097), 25, 5, 5; (6100), 23, 4, 4; (6101), 9, 2, 3; (6108), 3, 1, 0; (6109), 4, 1, 0; (6110), 9, 2, 3; (6119), 3, 1, 0; (6120), 5, 1, 0; (6122), 18, 4, 7; (6123), 18, 4, 12; (6131), 19, 4, 15; (6135), 5, 1, 0; (6140), 13, 3, 6; (6142), 3, 1, 0; (6145), 20, 4, 5; (6147), 3, 1, 0; (6149), 15, 3, 3; (6155), 3, 1, 0; (6160), 18, 4, 11; (6162), 18, 4, 13; (6164), 13, 3, 9; (6167), 3, 1, 0; (6173), 20, 4, 15; (6180), 5, 1, 0; (6184), 19, 4, 15; (6186), 7, 2, 2; (6189), 5, 1, 0; (6192), 14, 3, 11; (6193), 7, 2, 1; (6195), 10, 2, 1; (6199), 5, 1, 0; (6200), 5, 1, 0; (6204), 4, 1, 0; (6205), 14, 3, 11; (6208), 4, 1, 0; (6211), 9, 2, 6; (6212), 5, 1, 0; (6215), 28, 5, 5; (6223), 5, 1, 0; (6228), 12, 3, 11; (6230), 5, 1, 0; (6233), 10, 2, 5; (6238), 5, 1, 0; (6255), 5, 1, 0; (6257), 8, 2, 2; (6260), 10, 2, 3; (6262), 9, 2, 8; (6265), 19, 4, 12; (6269), 8, 2, 1; (6273), 20, 4, 6; (6276), 19, 4, 4; (6278), 33, 5, 5; (6281), 13, 3, 9; (6283), 5, 1, 0; (6286), 15, 3, 2; (6289), 5, 1, 0; (6298), 4, 1, 0; (6299), 9, 2, 7; (6301), 5, 1, 0; (6306), 15, 3, 9; (6307), 8, 2, 10; (6309), 5, 1, 0; (6310), 9, 2, 19; (6321), 13, 3, 8; (6323), 10, 2, 2; (6325), 12, 3, 7; (6326), 9, 2, 2; (6327), 14, 3, 11; (6328), 5, 1, 0; (6335), 9, 2, 10; (6337), 5, 1, 0; (6338), 3, 1, 0; (6341), 5, 1, 0; (6345), 5, 1, 0; (6351), 13, 3, 5; (6355), 5, 1, 0; (6356), 13, 3, 9; (6357), 19, 4, 13; (6359), 8, 2, 8; (6362), 4, 1, 0; (6366), 10, 2, 1; (6379), 14, 3, 10; (6382), 10, 2, 6; (6383), 18, 4, 14; (6384), 8, 2, 19; (6389), 13, 3, 6; (6390), 8, 2, 7; (6394), 14, 3, 11; (6401), 10, 3, 6; (6402), 20, 4, 12; (6404), 19, 4, 12; (6408), 4, 1, 0; (6415), 5, 1, 0; (6419), 5, 1, 0; (6420), 5, 1, 0; (6423), 5, 1, 0; (6424), 13, 3, 6; (6425), 5, 1, 0; (6428), 3, 1, 0; (6432), 49, 7, 15; (6435), 9, 2, 6; (6437), 8, 2, 7; (6439), 7, 2, 11; (6442), 5, 1, 0; (6457), 15, 3, 10; (6459), 20, 4, 12; (6461), 5, 1, 0; (6464), 13, 3, 8; (6472), 18, 3, 3; (6477), 8, 2, 1; (6479), 14, 3, 7; (6485), 4, 1, 0; (6493), 5, 1, 0; (6503), 4, 1, 0; (6504), 37, 5, 5; (6506), 15, 3, 3; (6507), 7, 2, 1; (6524), 5, 1, 0; (6527), 9, 2, 1; (6528), 8, 2, 1; (6533), 5, 1, 0; (6535), 8, 2, 8; (6540), 14, 3, 7; (6541), 5, 1, 0; (6545), 4, 1, 0; (6553), 3, 1, 0; (6556), 9, 2, 8; (6562), 9, 2, 6; (6563), 4, 1, 0; (6564), 7, 2, 1; (6570), 4, 1, 0; (6581), 4, 1, 0; (6585), 4, 1, 0; (6594), 43, 6, 6; (6595), 4, 1, 0; (6610), 5, 1, 0; (6617), 3, 1, 0; (6627), 9, 2, 8; (6629), 20, 5, 6; (6636), 3, 1, 0; (6640), 4, 1, 0; (6664), 3, 1, 0; (6669), 4, 1, 0; (6679), 21, 5, 13; (6680), 3, 1, 0; (6687), 3, 1, 0; (6690), 5, 1, 0; (6698), 5, 1, 0; (6703), 9, 2, 1; (6705), 5, 1, 0; (6707), 4, 1, 0; (6709), 11, 3, 13; (6713), 5, 1, 0; (6726), 5, 1, 0; (6735), 20, 4, 12; (6736), 3, 1, 0; (6737), 9, 2, 7; (6744), 5, 1, 0; (6752), 5, 1, 0; (6753), 10, 2, 3; (6754), 4, 1, 0; (6755), 5, 1, 0; (6762), 5, 1, 0; (6764), 5, 1, 0; (6765), 10, 2, 1; (6768), 8, 2, 3; (6769), 3, 1, 0; (6771), 10, 2, 6; (6779), 5, 1, 0; (6780), 12, 3, 5; (6792), 4, 1, 0; (6800), 4, 1, 0; (6801), 5, 1, 0; (6804), 20, 4, 11; (6807), 25, 5, 5; (6809), 19, 4, 11; (6817), 13, 3, 3; (6819), 10, 2, 8; (6823), 5, 1, 0; (6827), 5, 1, 0; (6831), 19, 4, 11; (6837), 10, 2, 1; (6841), 7, 2, 4; (6843), 19, 4, 12; (6844), 13, 3, 9; (6845), 15, 3, 6; (6847), 5, 1, 0; (6849), 5, 1, 0; (6852), 25, 5, 10; (6853), 10, 2, 2; (6854), 5, 1, 0; (6856), 24, 5, 5; (6857), 5, 1, 0; (6858), 10, 2, 8; (6863), 4, 1, 0; (6864), 20, 4, 3; (6865), 40, 5, 12; (6867), 14, 3, 7; (6868), 5, 1, 0; (6871), 11, 3, 2; (6874), 9, 2, 5; (6875), 3, 1, 0; (6876), 16, 4, 11; (6877), 17, 4, 10; (6882), 5, 1, 0; (6884), 15, 3, 2; (6886), 14, 3, 8; (6887), 7, 2, 2; (6888), 10, 2, 4; (6889), 4, 1, 0; (6891), 7, 2, 1; (6893), 3, 1, 0; (6896), 7, 2, 2; (6897), 14, 3, 2; (6902), 7, 2, 1; (6904), 9, 2, 3; (6905), 5, 1, 0; (6909), 5, 1, 0; (6913), 4, 1, 0; (6914), 14, 3, 5; (6915), 8, 2, 5; (6918), 10, 2, 1; (6919), 13, 3, 6; (6920), 24, 5, 16; (6922), 5, 1, 0; (6925), 4, 1, 0; (6926), 8, 2, 1; (6927), 15, 3, 6; (6928), 10, 2, 5; (6929), 5, 1, 0; (6934), 5, 1, 0; (6935), 24, 5, 8; (6936), 4, 1, 0; (6939), 8, 2, 5; (6945), 9, 2, 8; (6950), 8, 2, 6; (6952), 4, 1, 0; (6956), 12, 3, 9; (6957), 25, 5, 6; (6959), 5, 1, 0; (6965), 9, 2, 5; (6969), 4, 1, 0; (6970), 15, 3, 6; (6972), 13, 3, 3; (6974), 15, 3, 9; (6976), 14, 3, 6; (6978), 9, 2, 3; (6979), 9, 2, 7; (6980), 8, 2, 8; (6981), 7, 2, 5; (6982), 5, 1, 0; (6983), 4, 1, 0; (6985), 9, 2, 2; (6988), 19, 4, 15; (6991), 7, 2, 5; (6992), 9, 2, 8; (6993), 5, 1, 0; (6994), 5, 1, 0; (6999), 4, 1, 0; (7000), 8, 2, 3; (7001), 3, 1, 0; (7005), 10, 2, 1; (7006), 9, 2, 3; (7010), 3, 1, 0; (7013), 5, 1, 0; (7017), 15, 3, 6; (7021), 14, 3, 11; (7022), 5, 1, 0; (7024), 3, 1, 0; (7028), 12, 3, 13; (7029), 5, 1, 0; (7038), 4, 1, 0; (7043), 8, 2, 1; (7045), 15, 3, 3; (7050), 4, 1, 0; (7052), 15, 3, 8; (7060), 5, 1, 0; (7063), 5, 1, 0; (7065), 15, 3, 2; (7067), 5, 1, 0; (7075), 15, 3, 6; (7076), 18, 4, 13; (7085), 5, 1, 0; (7094), 15, 3, 6; (7103), 20, 4, 6; (7105), 3, 1, 0; (7106), 19, 4, 15; (7107), 18, 4, 13; (7112), 5, 1, 0; (7114), 4, 1, 0; (7121), 5, 1, 0; (7126), 5, 1, 0; (7127),

2000 APR. 18

M.P.C. 39785

6; (7208), 4, 1, 0; (7209), 10, 2, 1; (7212), 20, 4, 5; (7215), 5, 1, 0; (7217), 13, 3, 6; (7226), 4, 1, 0; (7231), 20, 4, 3; (7270), 7, 2, 1; (7274), 10, 3, 4; (7278), 13, 3, 6; (7284), 29, 5, 12; (7286), 5, 1, 0; (7291), 4, 1, 0; (7292), 4, 1, 0; (7294), 13, 3, 3; (7308), 4, 1, 0; (7313), 9, 2, 1; (7315), 20, 4, 5; (7322), 8, 2, 7; (7324), 10, 2, 4; (7331), 12, 3, 9; (7337), 20, 4, 11; (7344), 25, 5, 15; (7349), 12, 3, 5; (7353), 5, 1, 0; (7362), 15, 3, 3; (7363), 14, 3, 7; (7368), 20, 4, 15; (7373), 3, 1, 0; (7393), 10, 2, 2; (7412), 4, 1, 0; (7421), 10, 2, 4; (7433), 13, 3, 6; (7439), 15, 3, 10; (7440), 4, 1, 0; (7451), 13, 3, 15; (7455), 5, 1, 0; (7459), 8, 2, 8; (7471), 5, 1, 0; (7484), 4, 1, 0; (7485), 5, 1, 0; (7487), 10, 2, 6; (7509), 9, 2, 8; (7525), 3, 1, 0; (7527), 4, 1, 0; (7531), 3, 1, 0; (7543), 5, 1, 0; (7560), 5, 1, 0; (7567), 4, 1, 0; (7572), 5, 1, 0; (7576), 22, 4, 9; (7584), 3, 1, 0; (7590), 5, 1, 0; (7598), 8, 2, 5; (7601), 5, 1, 0; (7625), 10, 2, 1; (7632), 8, 2, 1; (7633), 3, 1, 0; (7637), 5, 1, 0; (7642), 5, 1, 0; (7643), 9, 2, 7; (7645), 10, 2, 1; (7648), 5, 1, 0; (7649), 5, 1, 0; (7653), 11, 3, 5; (7654), 5, 1, 0; (7655), 19, 4, 15; (7667), 7, 2, 1; (7671), 19, 4, 6; (7679), 5, 1, 0; (7680), 5, 1, 0; (7683), 5, 1, 0; (7685), 5, 1, 0; (7686), 4, 1, 0; (7687), 7, 2, 4; (7688), 5, 1, 0; (7695), 5, 1, 0; (7699), 5, 1, 0; (7704), 5, 1, 0; (7706), 4, 1, 0; (7709), 19, 4, 15; (7713), 3, 1, 0; (7714), 34, 6, 6; (7715), 4, 1, 0; (7716), 22, 5, 6; (7724), 38, 7, 11; (7726), 5, 1, 0; (7727), 5, 1, 0; (7729), 19, 4, 15; (7734), 10, 2, 1; (7736), 14, 3, 7; (7738), 10, 2, 5; (7739), 10, 2, 1; (7740), 6, 2, 6; (7741), 18, 4, 13; (7743), 3, 1, 0; (7747), 11, 3, 6; (7748), 19, 4, 11; (7749), 5, 1, 0; (7752), 4, 1, 0; (7759), 15, 3, 6; (7760), 18, 3, 5; (7761), 5, 1, 0; (7765), 5, 1, 0; (7768), 15, 3, 3; (7769), 5, 1, 0; (7777), 9, 2, 2; (7778), 5, 1, 0; (7779), 5, 1, 0; (7780), 15, 2, 1; (7781), 5, 1, 0; (7784), 5, 1, 0; (7785), 20, 4, 15; (7786), 9, 2, 4; (7787), 18, 4, 12; (7791), 7, 2, 1; (7792), 8, 2, 11; (7794), 10, 2, 1; (7795), 10, 2, 5; (7798), 13, 3, 11; (7799), 5, 1, 0; (7801), 5, 1, 0; (7804), 5, 1, 0; (7805), 20, 4, 15; (7806), 28, 4, 3; (7809), 10, 2, 7; (7810), 19, 4, 9; (7811), 10, 2, 9; (7812), 5, 1, 0; (7813), 20, 4, 5; (7814), 4, 1, 0; (7817), 3, 1, 0; (7820), 25, 5, 5; (7824), 19, 4, 13; (7825), 5, 1, 0; (7826), 14, 3, 6; (7830), 5, 1, 0; (7831), 5, 1, 0; (7833), 9, 2, 12; (7837), 7, 2, 1; (7841), 4, 1, 0; (7842), 5, 1, 0; (7843), 5, 1, 0; (7846), 13, 3, 9; (7849), 18, 4, 16; (7852), 10, 2, 4; (7856), 8, 2, 7; (7857), 15, 3, 10; (7858), 18, 4, 11; (7859), 18, 4, 3; (7861), 20, 4, 4; (7862), 10, 2, 3; (7864), 17, 4, 15; (7866), 5, 1, 0; (7868), 34, 7, 12; (7869), 17, 4, 3; (7873), 12, 3, 13; (7875), 14, 3, 9; (7878), 4, 1, 0; (7879), 3, 1, 0; (7880), 10, 2, 3; (7881), 18, 4, 13; (7883), 4, 1, 0; (7884), 10, 2, 2; (7885), 5, 1, 0; (7894), 10, 2, 10; (7895), 10, 2, 1; (7896), 5, 1, 0; (7898), 17, 3, 11; (7899), 30, 5, 15; (7903), 3, 1, 0; (7905), 5, 1, 0; (7906), 5, 1, 0; (7907), 30, 5, 4; (7908), 15, 3, 2; (7910), 3, 1, 0; (7911), 5, 1, 0; (7912), 15, 3, 2; (7913), 18, 4, 4; (7914), 15, 3, 9; (7917), 4, 1, 0; (7918), 4, 1, 0; (7919), 27, 5, 5; (7923), 43, 6, 15; (7926), 4, 1, 0; (7932), 10, 2, 1; (7938), 4, 1, 0; (7940), 3, 1, 0; (7941), 4, 1, 0; (7942), 5, 1, 0; (7946), 5, 1, 0; (7949), 11, 3, 9; (7950), 5, 1, 0; (7951), 13, 3, 2; (7953), 29, 4, 3; (7954), 5, 1, 0; (7963), 5, 1, 0; (7964), 20, 4, 15; (7965), 5, 1, 0; (7966), 4, 1, 0; (7969), 29, 4, 6; (7971), 14, 3, 3; (7972), 15, 4, 3; (7973), 10, 2, 2; (7975), 15, 3, 3; (7979), 16, 3, 3; (7980), 20, 4, 3; (7981), 15, 3, 5; (7984), 10, 2, 7; (7987), 14, 3, 2; (7990), 8, 2, 1; (7992), 18, 3, 10; (7993), 14, 3, 2; (8000), 4, 1, 0; (8005), 10, 2, 6; (8006), 13, 3, 9; (8008), 14, 3, 2; (8010), 23, 4, 4; (8012), 4, 1, 0; (8017), 27, 5, 5; (8018), 5, 1, 0; (8025), 24, 3, 3; (8028), 7, 2, 5; (8029), 25, 5, 6; (8030), 3, 1, 0; (8036), 13, 3, 11; (8041), 8, 2, 7; (8042), 8, 2, 7; (8048), 5, 1, 0; (8052), 5, 1, 0; (8055), 5, 1, 0; (8057), 25, 5, 15; (8061), 8, 2, 6; (8063), 8, 2, 1; (8064), 23, 5, 6; (8070), 9, 2, 1; (8074), 5, 1, 0; (8075), 9, 2, 10; (8076), 25, 4, 5; (8078), 14, 3, 2; (8080), 3, 1, 0; (8083), 10, 3, 10; (8084), 18, 4, 12; (8085), 10, 2, 7; (8086), 5, 1, 0; (8090), 28, 5, 13; (8094), 3, 1, 0; (8096), 5, 1, 0; (8099), 18, 3, 2; (8100), 10, 2, 1; (8101), 19, 4, 16; (8103), 20, 4, 5; (8104), 5, 1, 0; (8110), 13, 3, 9; (8111), 9, 2, 6; (8112), 4, 1, 0; (8128), 10, 2, 2; (8133), 14, 3, 2; (8136), 11, 3, 2; (8145), 5, 1, 0; (8147), 13, 3, 2; (8155), 14, 3, 2; (8158), 29, 5, 4; (8169), 5, 1, 0; (8171), 5, 1, 0; (8174), 15, 3, 9; (8182), 25, 5, 5; (8184), 8, 2, 1; (8186), 5, 1, 0; (8187), 5, 1, 0; (8188), 15, 3, 6; (8197), 8, 2, 6; (8198), 7, 2, 2; (8203), 33, 6, 6; (8208), 14, 3, 9; (8209), 5, 1, 0; (8219), 13, 3, 3; (8221), 3, 1, 0; (8223), 4, 1, 0; (8225), 25, 5, 6; (8226), 9, 2, 5; (8231), 13, 3, 2; (8247), 15, 3, 2; (8250), 10, 3, 7; (8271), 11, 3, 6; (8294), 5, 1, 0; (8314), 39, 8, 9; (8316), 3, 1, 0; (8339), 19, 4, 3; (8410), 7, 2, 2; (8427), 13, 3, 9; (8510), 5, 1, 0; (8550), 5, 1, 0; (8674), 5, 1, 0; (8825), 3, 1, 0; (8982), 5, 1, 0; (8993), 4, 1, 0; (9002), 5, 1, 0; (9006), 5, 1, 0; (9008), 9, 2, 8; (9021), 5, 1, 0; (9038), 9, 2, 1; (9050), 3, 1, 0; (9069), 3, 1, 0; (9083), 5, 1, 0; (9143), 9, 2, 5; (9147), 20, 4, 15; (9148), 5, 1, 0; (9149), 3, 1, 0; (9153), 5, 1, 0; (9154), 4, 1, 0; (9156), 9, 2, 3; (9159), 4, 1, 0; (9161), 5, 1, 0; (9165), 4, 1, 0; (9168), 5, 1, 0; (9170), 5, 1, 0; (9171), 5, 1, 0; (9174), 9, 2, 1; (9177), 5, 1, 0; (9182), 5, 1, 0; (9184), 4, 1, 0; (9189), 5, 1, 0; (9190), 10, 2, 1; (9196), 9, 2, 8; (9198), 24, 4, 6; (9199), 5, 1, 0; (9204), 5, 1, 0; (9206), 4, 1, 0; (9212), 5, 1, 0; (9214), 5, 1, 0; (9215), 5, 1, 0; (9223), 6, 2, 1; (9232), 4, 1, 0; (9234), 4, 1, 0; (9239), 13, 2, 1; (9254), 31, 7, 13; (9255), 5, 1, 0; (9260), 8, 2, 3; (9261), 35, 6, 6; (9262), 5, 1, 0; (9268), 5, 1, 0; (9269), 5, 1, 0; (9276), 5, 1, 0; (9277), 5, 1, 0; (9279), 5, 1, 0; (9281), 9, 2, 3; (9286), 5, 1, 0; (9289), 5, 1, 0; (9296), 8, 2, 5; (9302), 13, 2, 1; (9303), 5, 1, 0; (9307), 5, 1, 0; (9314), 20, 4, 12; (9318), 7, 2, 6; (9320), 8, 2, 4; (9321), 10, 2, 8; (9324), 5, 1, 0; (9325), 5, 1, 0; (9329), 5, 1, 0; (9332), 4, 1, 0; (9333), 14, 3, 18; (9335), 3, 1, 0; (9337), 3, 1, 0; (9344), 5, 1, 0; (9348), 5, 1, 0; (9353), 29, 5, 5; (9354), 4, 1, 0; (9355), 9, 2, 1; (9358), 5, 1, 0; (9359), 3, 1, 0; (9362), 5, 1, 0; (9363), 5, 1, 0; (9367), 31, 7, 13; (9368), 5, 1, 0; (9369), 5, 1, 0; (9371), 5, 1, 0; (9374), 23, 5, 6; (9375), 5, 1, 0; (9376), 5, 1, 0; (9401), 3, 1, 0; (9406), 10, 2, 1; (9407), 28, 5, 9; (9415), 13, 3, 3; (9417), 3, 1, 0; (9419), 10, 2, 1; (9420), 9, 2, 3; (9421), 5, 1, 0; (9424), 13, 3, 11; (9425), 10, 2, 8; (9428), 5, 1, 0; (9435), 5, 1, 0; (9437), 5, 1, 0; (9442), 5, 1, 0; (9445), 13, 3, 3; (9447), 4, 1, 0; (9449), 13, 3, 4; (9474), 5, 1, 0; (9481), 3, 1, 0; (9486), 3, 1, 0; (9492), 17, 4, 13; (9493), 10, 2, 4; (9494), 3, 1, 0; (9495), 18, 4, 13; (9500), 10, 2, 4; (9508), 5, 1, 0; (9512), 10, 2, 1; (9513), 10, 2, 2; (9515), 7, 2, 5;

(9518), 17, 4, 13; (9519), 4, 1, 0; (9523), 8, 2, 6; (9527), 23, 5, 5; (9529), 13, 3, 5; (9531), 24, 5, 6; (9532), 4, 1, 0; (9533), 13, 3, 11; (9535), 9, 2, 1; (9536), 5, 1, 0; (9538), 14, 3, 5; (9541), 15, 3, 6; (9542), 17, 3, 11; (9546), 12, 3, 9; (9547), 29, 5, 5; (9548), 5, 1, 0; (9549), 5, 1, 0; (9553), 19, 4, 6; (9555), 3, 1, 0; (9556), 5, 1, 0; (9559), 10, 2, 1; (9560), 19, 4, 11; (9561), 4, 1, 0; (9562), 5, 1, 0; (9564), 4, 1, 0; (9565), 13, 3, 6; (9566), 4, 1, 0; (9567), 10, 2, 1; (9568), 4, 1, 0; (9569), 13, 3, 11; (9574), 4, 1, 0; (9575), 8, 2, 1; (9579), 5, 1, 0; (9580), 10, 2, 3; (9581), 4, 1, 0; (9584), 5, 1, 0; (9585), 8, 2, 7; (9592), 5, 1, 0; (9593), 30, 7, 11; (9594), 18, 4, 6; (9595), 6, 2, 7; (9597), 13, 3, 6; (9599), 20, 4, 15; (9600), 8, 2, 10; (9601), 7, 2, 7; (9602), 14, 3, 2; (9603), 29, 6, 12; (9604), 9, 2, 6; (9605), 20, 4, 11; (9606), 20, 4, 12; (9609), 5, 1, 0; (9612), 8, 2, 4; (9615), 18, 4, 6; (9617), 5, 1, 0; (9620), 5, 1, 0; (9621), 19, 4, 3; (9622), 7, 2, 1; (9626), 18, 4, 7; (9628), 5, 1, 0; (9629), 5, 1, 0; (9630), 4, 1, 0; (9637), 19, 3, 5; (9639), 9, 2, 3; (9643), 12, 3, 11; (9647), 16, 4, 13; (9649), 17, 4, 13; (9654), 20, 4, 5; (9655), 15, 3, 9; (9656), 15, 3, 6; (9658), 14, 3, 2; (9659), 10, 2, 1; (9663), 18, 3, 5; (9666), 4, 1, 0; (9670), 5, 1, 0; (9672), 20, 4, 6; (9674), 3, 1, 0; (9682), 5, 1, 0; (9683), 14, 3, 2; (9684), 25, 5, 5; (9685), 4, 1, 0; (9686), 4, 1, 0; (9687), 5, 1, 0; (9688), 3, 1, 0; (9689), 8, 2, 7; (9690), 18, 4, 6; (9693), 8, 2, 6; (9695), 22, 4, 6; (9698), 13, 3, 13; (9700), 8, 2, 5; (9704), 5, 1, 0; (9705), 4, 1, 0; (9706), 5, 1, 0; (9707), 12, 3, 13; (9709), 5, 1, 0; (9711), 8, 2, 1; (9716), 3, 1, 0; (9720), 10, 2, 5; (9721), 4, 1, 0; (9722), 7, 2, 2; (9723), 5, 1, 0; (9724), 8, 2, 1; (9729), 8, 2, 4; (9731), 4, 1, 0; (9733), 10, 2, 4; (9734), 13, 3, 8; (9735), 3, 1, 0; (9737), 4, 1, 0; (9738), 5, 1, 0; (9740), 18, 4, 12; (9742), 3, 1, 0; (9746), 19, 4, 12; (9747), 4, 1, 0; (9748), 20, 4, 4; (9752), 8, 2, 7; (9753), 5, 1, 0; (9755), 20, 4, 4; (9758), 5, 1, 0; (9761), 21, 5, 6; (9762), 4, 1, 0; (9763), 25, 5, 6; (9766), 19, 4, 5; (9769), 14, 3, 6; (9770), 25, 5, 15; (9771), 8, 2, 2; (9774), 24, 5, 5; (9778), 9, 2, 1; (9782), 15, 3, 9; (9783), 26, 5, 4; (9787), 22, 4, 13; (9789), 3, 1, 0; (9791), 12, 3, 11; (9792), 13, 3, 9; (9794), 10, 2, 2; (9796), 38, 7, 11; (9810), 10, 2, 3; (9812), 17, 4, 3; (9813), 18, 4, 3; (9815), 9, 2, 5; (9819), 9, 2, 6; (9820), 19, 4, 3; (9822), 5, 1, 0; (9829), 3, 1, 0; (9832), 5, 1, 0; (9834), 5, 1, 0; (9835), 32, 7, 8; (9836), 18, 4, 3; (9837), 13, 3, 16; (9838), 4, 1, 0; (9839), 13, 3, 13; (9840), 5, 1, 0; (9844), 5, 1, 0; (9846), 9, 2, 8; (9847), 18, 4, 3; (9848), 30, 5, 5; (9849), 8, 2, 3; (9850), 6, 1, 0; (9851), 17, 4, 11; (9852), 8, 2, 1; (9854), 16, 4, 13; (9855), 20, 4, 15; (9857), 5, 1, 0; (9863), 10, 2, 2; (9864), 21, 5, 6; (9865), 8, 2, 1; (9867), 3, 1, 0; (9875), 8, 2, 1; (9876), 8, 2, 1; (9877), 11, 3, 11; (9878), 19, 4, 15; (9885), 8, 2, 2; (9887), 20, 4, 12; (9888), 10, 2, 3; (9889), 35, 5, 5; (9893), 9, 2, 2; (9894), 19, 4, 13; (9895), 19, 4, 3; (9897), 14, 3, 6; (9898), 13, 3, 9; (9900), 14, 3, 6; (9901), 8, 2, 2; (9904), 9, 2, 4; (9906), 5, 1, 0; (9909), 10, 2, 1; (9910), 9, 2, 6; (9911), 15, 3, 2; (9912), 9, 2, 3; (9914), 20, 4, 12; (9915), 24, 6, 12; (9916), 20, 4, 4; (9917), 14, 3, 5; (9918), 4, 1, 0; (9919), 7, 2, 1; (9920), 10, 2, 2; (9923), 24, 5, 9; (9924), 8, 2, 1; (9925), 12, 3, 3; (9927), 15, 3, 11; (9928), 4, 1, 0; (9932), 33, 6, 6; (9934), 5, 1, 0; (9937), 9, 2, 1; (9938), 20, 4, 12; (9939), 17, 3, 6; (9940), 10, 2, 2; (9943), 7, 2, 1; (9944), 33, 5, 15; (9948), 14, 2, 1; (9951), 9, 2, 9; (9952), 8, 2, 7; (9953), 9, 2, 2; (9954), 15, 3, 3; (9955), 19, 3, 3; (9957), 15, 3, 3; (9960), 15, 3, 6; (9962), 17, 3, 3; (9963), 5, 1, 0; (9964), 43, 6, 6; (9965), 9, 3, 6; (9967), 10, 2, 11; (9968), 5, 1, 0; (9970), 15, 3, 11; (9972), 10, 2, 5; (9973), 5, 1, 0; (9975), 9, 2, 2; (9976), 18, 4, 15; (9977), 24, 4, 5; (9978), 10, 2, 1; (9980), 15, 3, 9; (9981), 15, 3, 2; (9982), 13, 3, 9; (9983), 9, 2, 1; (9988), 20, 4, 3; (9989), 15, 3, 2; (9990), 14, 2, 7; (9996), 5, 1, 0; (9999), 18, 4, 12; (10001), 5, 1, 0; (10002), 9, 2, 1; (10004), 10, 2, 6; (10005), 24, 5, 5; (10006), 14, 3, 9; (10007), 4, 1, 0; (10008), 20, 4, 6; (10010), 3, 1, 0; (10011), 4, 1, 0; (10014), 13, 2, 2; (10018), 19, 3, 2; (10020), 10, 2, 8; (10023), 15, 3, 5; (10025), 24, 5, 5; (10026), 9, 2, 5; (10029), 8, 2, 2; (10031), 4, 1, 0; (10032), 4, 1, 0; (10033), 15, 3, 6; (10036), 15, 3, 3; (10039), 19, 4, 11; (10042), 5, 1, 0; (10043), 10, 2, 10; (10044), 4, 1, 0; (10045), 24, 5, 5; (10046), 14, 3, 11; (10048), 13, 3, 3; (10049), 9, 2, 1; (10050), 15, 3, 9; (10052), 25, 5, 5; (10053), 17, 4, 6; (10061), 5, 1, 0; (10062), 19, 4, 11; (10064), 15, 3, 2; (10065), 13, 3, 9; (10069), 8, 2, 7; (10073), 12, 3, 9; (10077), 5, 1, 0; (10078), 25, 5, 4; (10079), 14, 3, 10; (10080), 19, 4, 15; (10082), 12, 3, 3; (10085), 3, 1, 0; (10086), 10, 2, 5; (10093), 5, 1, 0; (10095), 8, 2, 4; (10096), 8, 2, 9; (10097), 9, 2, 1; (10098), 5, 1, 0; (10099), 4, 1, 0; (10100), 5, 1, 0; (10109), 14, 3, 10; (10114), 25, 5, 5; (10116), 5, 1, 0; (10117), 27, 5, 4; (10118), 9, 2, 7; (10120), 20, 4, 15; (10121), 10, 2, 2; (10123), 9, 2, 1; (10124), 12, 3, 9; (10128), 10, 2, 1; (10131), 10, 2, 1; (10132), 10, 2, 1; (10133), 8, 2, 1; (10141), 19, 4, 15; (10142), 20, 4, 15; (10144), 20, 4, 3; (10146), 8, 2, 2; (10147), 19, 4, 13; (10148), 4, 1, 0; (10152), 18, 3, 3; (10153), 5, 1, 0; (10155), 14, 3, 2; (10158), 20, 4, 12; (10164), 13, 3, 9; (10166), 10, 2, 1; (10169), 19, 4, 13; (10172), 13, 3, 9; (10177), 15, 3, 6; (10185), 20, 4, 12; (10189), 14, 3, 9; (10193), 7, 2, 1; (10196), 14, 3, 2; (10201), 4, 1, 0; (10202), 9, 2, 3; (10204), 8, 2, 3; (10205), 15, 3, 6; (10206), 9, 2, 2; (10211), 20, 4, 6; (10215), 5, 1, 0; (10216), 5, 1, 0; (10217), 15, 3, 3; (10223), 20, 4, 6; (10225), 3, 1, 0; (10227), 8, 2, 7; (10228), 5, 1, 0; (10231), 4, 1, 0; (10232), 5, 1, 0; (10234), 5, 1, 0; (10236), 20, 3, 2; (10238), 10, 2, 4; (10239), 3, 1, 0; (10241), 25, 6, 6; (10242), 13, 3, 2; (10245), 25, 5, 5; (10248), 5, 1, 0; (10249), 10, 2, 1; (10252), 22, 4, 5; (10257), 20, 4, 12; (10263), 20, 4, 3; (10278), 3, 1, 0; (10287), 3, 1, 0; (10289), 15, 3, 2; (10296), 12, 2, 1; (10314), 14, 3, 9; (10316), 8, 2, 2; (10331), 5, 1, 0; (10337), 4, 1, 0; (10342), 4, 1, 0; (10343), 12, 3, 2; (10355), 25, 5, 5; (10356), 15, 3, 2; (10376), 16, 4, 15; (10377), 13, 3, 2; (10381), 7, 2, 8; (10384), 8, 2, 1; (10388), 4, 1, 0; (10391), 3, 1, 0; (10393), 3, 1, 0; (10397), 5, 1, 0; (10402), 3, 1, 0; (1

0; (10641), 20, 4, 5; (10644), 8, 2, 3; (10649), 3, 1, 0; (10664), 5, 1, 0; (10749), 4, 1, 0; (10753), 18, 3, 2; (10897), 4, 1, 0; (10937), 4, 1, 0; (10938), 4, 1, 0; (10996), 8, 2, 1; (11062), 20, 4, 15; (11066), 5, 1, 0; (11078), 4, 1, 0; (11147), 15, 3, 9; (11189), 5, 1, 0; (11191), 15, 3, 2; (11193), 4, 1, 0; (11196), 4, 1, 0; (11200), 8, 2, 4; (11254), 5, 1, 0; (11261), 29, 4, 6; (11274), 8, 2, 1; (11289), 29, 5, 12; (11291), 4, 1, 0; (11292), 15, 3, 9; (11293), 5, 1, 0; (11298), 19, 4, 12; (11301), 8, 2, 7; (11305), 17, 4, 13; (11307), 5, 1, 0; (11310), 13, 3, 9; (11316), 14, 3, 10; (11321), 8, 2, 7; (11331), 15, 3, 2; (11332), 28, 6, 9; (11334), 13, 3, 6; (11340), 8, 2, 1; (11350), 20, 4, 6; (11353), 35, 5, 5; (11356), 10, 2, 9; (11369), 5, 1, 0; (11378), 3, 1, 0; (11382), 4, 1, 0; (11386), 5, 1, 0; (11388), 5, 1, 0; (11389), 5, 1, 0; (11391), 13, 3, 5; (11393), 19, 4, 12; (11404), 9, 2, 1; (11429), 5, 1, 0; (11564), 19, 4, 3; (11619), 19, 4, 15; (11621), 4, 1, 0; (11666), 5, 1, 0; (11740), 14, 3, 2; (11741), 8, 2, 2; (11759), 10, 2, 1; (11761), 9, 2, 1; (11779), 4, 1, 0; (11976), 5, 1, 0; (12053), 8, 2, 7; (12182), 14, 3, 11; (12193), 30, 6, 10; (12197), 8, 2, 1; (12215), 4, 1, 0; (12218), 5, 1, 0; (12222), 4, 1, 0; (12230), 6, 2, 1; (12231), 5, 1, 0; (12233), 4, 1, 0; (12235), 5, 1, 0; (12239), 4, 1, 0; (12262), 4, 1, 0; (12265), 5, 1, 0; (12273), 5, 1, 0; (12277), 4, 1, 0; (12278), 4, 1, 0; (12282), 10, 2, 6; (12299), 4, 1, 0; (12329), 5, 1, 0; (12331), 5, 1, 0; (12334), 9, 2, 1; (12338), 5, 1, 0; (12339), 9, 2, 1; (12342), 4, 1, 0; (12353), 4, 1, 0; (12355), 5, 1, 0; (12356), 3, 1, 0; (12375), 5, 1, 0; (12377), 4, 1, 0; (12390), 3, 1, 0; (12391), 4, 1, 0; (12392), 4, 1, 0; (12397), 5, 1, 0; (12401), 5, 1, 0; (12426), 8, 2, 1; (12431), 4, 1, 0; (12438), 5, 1, 0; (12445), 12, 3, 2; (12467), 5, 1, 0; (12470), 4, 1, 0; (12474), 4, 1, 0; (12486), 5, 1, 0; (12493), 5, 1, 0; (12548), 5, 1, 0; (12553), 9, 2, 8; (12556), 9, 2, 5; (12562), 5, 1, 0; (12563), 9, 2, 1; (12567), 4, 1, 0; (12575), 10, 2, 1; (12582), 15, 3, 11; (12584), 10, 2, 11; (12586), 11, 2, 4; (12587), 19, 4, 6; (12590), 6, 2, 7; (12591), 5, 1, 0; (12595), 5, 1, 0; (12598), 9, 2, 1; (12600), 8, 2, 7; (12601), 10, 2, 1; (12602), 8, 2, 7; (12603), 8, 2, 7; (12604), 14, 3, 6; (12605), 14, 3, 7; (12642), 7, 2, 1; (12659), 5, 1, 0; (12680), 5, 1, 0; (12683), 4, 1, 0; (12684), 4, 1, 0; (12690), 5, 1, 0; (12693), 20, 4, 14; (12696), 3, 1, 0; (12697), 5, 1, 0; (12706), 5, 1, 0; (12710), 5, 1, 0; (12713), 5, 1, 0; (12714), 5, 1, 0; (12721), 5, 1, 0; (12726), 5, 1, 0; (12732), 3, 1, 0; (12734), 4, 1, 0; (12736), 2, 1, 0; (12738), 5, 1, 0; (12740), 15, 3, 7; (12742), 5, 1, 0; (12745), 4, 1, 0; (12746), 7, 2, 1; (12747), 5, 1, 0; (12748), 5, 1, 0; (12749), 5, 1, 0; (12751), 5, 1, 0; (12764), 4, 1, 0; (12765), 4, 1, 0; (12770), 5, 1, 0; (12773), 27, 6, 30; (12777), 3, 1, 0; (12782), 5, 1, 0; (12787), 5, 1, 0; (12798), 4, 1, 0; (12800), 5, 1, 0; (12802), 5, 1, 0; (12808), 5, 1, 0; (12812), 24, 4, 6; (12814), 20, 4, 4; (12819), 4, 1, 0; (12836), 9, 2, 1; (12848), 15, 3, 9; (12849), 5, 1, 0; (12850), 5, 1, 0; (12861), 20, 4, 12; (12869), 20, 4, 14; (12877), 5, 1, 0; (12886), 4, 1, 0; (12892), 5, 1, 0; (12895), 5, 1, 0; (12897), 7, 2, 6; (12908), 5, 1, 0; (12914), 10, 2, 6; (12915), 3, 1, 0; (12918), 5, 1, 0; (12919), 3, 1, 0; (12921), 4, 1, 0; (12924), 5, 1, 0; (12925), 10, 2, 5; (12927), 25, 4, 10; (12928), 15, 3, 10; (12930), 10, 2, 5; (12931), 8, 2, 5; (12932), 15, 3, 9; (12933), 9, 2, 9; (12934), 14, 3, 11; (12935), 18, 4, 27; (12936), 4, 1, 0; (12958), 6, 2, 11; (12975), 8, 2, 5; (12980), 5, 1, 0; (12984), 5, 1, 0; (12987), 5, 1, 0; (13006), 5, 1, 0; (13007), 15, 3, 172; (13009), 9, 2, 7; (13010), 5, 1, 0; (13012), 7, 2, 8; (13017), 5, 1, 0; (13018), 4, 1, 0; (13019), 5, 1, 0; (13020), 9, 2, 2; (13022), 14, 3, 5; (13023), 5, 1, 0; (13024), 3, 1, 0; (13025), 10, 2, 8; (13031), 20, 4, 12; (13034), 4, 1, 0; (13036), 9, 2, 5; (13037), 5, 1, 0; (13043), 4, 1, 0; (13044), 5, 1, 0; (13049), 5, 1, 0; (13052), 7, 2, 8; (13054), 8, 2, 2; (13055), 4, 1, 0; (13056), 5, 1, 0; (13059), 13, 3, 9; (13061), 5, 1, 0; (13068), 4, 1, 0; (13069), 12, 3, 13; (13072), 5, 1, 0; (13081), 5, 1, 0; (13087), 14, 2, 3; (13093), 4, 1, 0; (13099), 5, 1, 0; (13102), 9, 2, 5; (13109), 5, 1, 0; (13111), 5, 1, 0; (13113), 18, 4, 6; (13115), 8, 2, 5; (13116), 3, 1, 0; (13119), 5, 1, 0; (13121), 20, 4, 9; (13123), 4, 1, 0; (13124), 13, 3, 16; (13131), 5, 1, 0; (13133), 5, 1, 0; (13135), 4, 1, 0; (13137), 5, 1, 0; (13144), 5, 1, 0; (13148), 9, 2, 7; (13151), 10, 2, 2; (13154), 9, 2, 5; (13163), 4, 1, 0; (13165), 3, 1, 0; (13166), 5, 1, 0; (13167), 8, 2, 5; (13173), 19, 4, 13; (13182), 4, 1, 0; (13188), 4, 1, 0; (13195), 5, 1, 0; (13196), 4, 1, 0; (13199), 5, 1, 0; (13203), 5, 1, 0; (13204), 5, 1, 0; (13205), 4, 1, 0; (13209), 5, 1, 0; (13213), 25, 5, 4; (13216), 3, 1, 0; (13217), 3, 1, 0; (13218), 5, 1, 0; (13220), 5, 1, 0; (13221), 5, 1, 0; (13227), 5, 1, 0; (13231), 9, 2, 1; (13241), 9, 2, 2; (13244), 4, 1, 0; (13246), 14, 3, 30; (13248), 5, 1, 0; (13249), 7, 2, 1; (13255), 13, 3, 11; (13256), 3, 1, 0; (13273), 5, 1, 0; (13276), 9, 2, 8; (13286), 5, 1, 0; (13287), 4, 1, 0; (13288), 13, 3, 5; (13289), 4, 1, 0; (13290), 5, 1, 0; (13293), 4, 1, 0; (13295), 8, 2, 5; (13297), 4, 1, 0; (13299), 9, 2, 1; (13303), 5, 1, 0; (13311), 4, 1, 0; (13312), 8, 2, 5; (13315), 8, 2, 6; (13316), 5, 1, 0; (13319), 4, 1, 0; (13325), 5, 1, 0; (13338), 5, 1, 0; (13341), 12, 3, 7; (13342), 5, 1, 0; (13345), 4, 1, 0; (13351), 13, 3, 5; (13352), 13, 3, 11; (13353), 3, 1, 0; (13354), 5, 1, 0; (13355), 5, 1, 0; (13357), 4, 1, 0; (13358), 10, 2, 4; (13359), 4, 1, 0; (13361), 7, 2, 6; (13364), 5, 1, 0; (13366), 4, 1, 0; (13367), 5, 1, 0; (13371), 5, 1, 0; (13372), 3, 1, 0; (13374), 5, 1, 0; (13377), 10, 2, 5; (13378), 5, 1, 0; (13380), 20, 3, 5; (13382), 38, 6, 6; (13388), 5, 1, 0; (13389), 32, 6, 6; (13390), 18, 4, 15; (13394), 13, 3, 10; (13396), 9, 2, 1; (13397), 4, 1, 0; (13398), 4, 1, 0; (13399), 10, 2, 8; (13400), 5, 1, 0; (13402), 7, 2, 7; (13403), 10, 2, 1; (13404), 8, 2, 7; (13405), 10, 2, 6; (13406), 5, 1, 0; (13407), 10, 2, 5; (13408), 15, 3, 10; (13409), 5, 1, 0; (13410), 10, 2, 10; (13411), 20, 4, 30; (13412), 10, 2, 11; (13413), 8, 2, 10; (13414), 15, 3, 10; (13415), 19, 4, 4; (13416), 23, 4, 8; (13417), 10, 2, 11; (13418), 5, 1, 0; (13419), 4, 1, 0; (13421), 9, 2, 6; (13422), 14, 2, 5; (13423), 20, 4, 14; (13424), 18, 4, 15; (13425), 3, 1, 0; (13427), 8, 2, 174; (13430), 5, 1, 0; (13432), 10, 2, 10; (13434), 5, 1, 0; (13436), 5, 1, 0; (13438), 8, 2, 163; (13448), 5, 1, 0; (13453), 5, 1, 0; (13457), 4, 1, 0; (13460), 5, 1, 0; (13471), 9, 2, 6; (13473), 5, 1, 0; (13477), 4, 1, 0; (13478), 4, 1, 0; (13481), 5, 1, 0; (13482), 17, 4, 15; (13486), 8, 2, 7; (13487), 14, 3, 11; (13488), 5, 1, 0; (13492), 13, 3, 11; (13495), 10, 2, 3; (13497), 10, 2, 6; (13501), 13, 3, 6; (13502), 5, 1, 0; (13503), 4, 1, 0; (13504), 8, 2, 4; (13505), 14, 3, 11; (13506), 18, 4, 9; (13508), 14, 3, 2; (13512), 18, 3, 3; (13520), 5, 1, 0; (13521), 10, 2, 1; (13522), 5, 1, 0; (13529), 15, 3, 8; (13530), 8, 2, 4; (13532),

18, 3, 5; (13533), 4, 1, 0; (13535), 10, 2, 3; (13537), 13, 3, 13; (13538), 18, 4, 11; (13540), 4, 1, 0; (13541), 7, 2, 5; (13542), 8, 2, 7; (13543), 15, 3, 10; (13547), 4, 1, 0; (13548), 5, 1, 0; (13549), 30, 5, 4; (13551), 5, 1, 0; (13552), 5, 1, 0; (13555), 5, 1, 0; (13557), 4, 1, 0; (13560), 5, 1, 0; (13562), 3, 1, 0; (13565), 22, 5, 15; (13567), 15, 3, 10; (13568), 5, 1, 0; (13573), 13, 3, 11; (13574), 3, 1, 0; (13575), 35, 6, 12; (13576), 12, 3, 13; (13577), 4, 1, 0; (13579), 14, 3, 11; (13581), 13, 3, 10; (13582), 10, 2, 4; (13583), 8, 2, 6; (13586), 4, 1, 0; (13588), 5, 1, 0; (13589), 4, 1, 0; (13591), 3, 1, 0; (13593), 14, 3, 11; (13600), 10, 2, 6; (13605), 8, 2, 5; (13607), 22, 4, 5; (13608), 14, 3, 11; (13610), 16, 4, 4; (13613), 5, 1, 0; (13614), 14, 3, 10; (13615), 5, 1, 0; (13617), 21, 5, 6; (13618), 9, 2, 170; (13621), 8, 2, 5; (13624), 8, 2, 4; (13626), 13, 3, 11; (13628), 15, 3, 10; (13629), 10, 3, 2; (13632), 5, 1, 0; (13633), 5, 1, 0; (13636), 5, 1, 0; (13637), 8, 2, 3; (13638), 18, 4, 9; (13639), 5, 1, 0; (13640), 19, 4, 11; (13643), 18, 4, 15; (13649), 19, 4, 6; (13656), 14, 3, 38; (13659), 14, 3, 9; (13665), 5, 1, 0; (13670), 18, 4, 16; (13676), 7, 2, 10; (13679), 8, 2, 6; (13684), 10, 2, 164; (13687), 4, 1, 0; (13691), 13, 3, 9; (13692), 19, 4, 13; (13693), 25, 5, 4; (13695), 4, 1, 0; (13699), 10, 2, 18; (13706), 5, 1, 0; (13707), 5, 1, 0; (13708), 5, 1, 0; (13709), 19, 4, 15; (13714), 10, 2, 4; (13719), 3, 1, 0; (13721), 4, 1, 0; (13724), 4, 1, 0; (13725), 9, 2, 10; (13727), 22, 5, 13; (13728), 5, 1, 0; (13732), 9, 2, 4; (13733), 5, 1, 0; (13740), 9, 2, 3; (13749), 7, 2, 2; (13751), 5, 1, 0; (13754), 8, 2, 18; (13758), 4, 1, 0; (13762), 17, 4, 13; (13764), 13, 3, 11; (13767), 3, 1, 0; (13772), 4, 1, 0; (13773), 5, 1, 0; (13775), 5, 1, 0; (13778), 5, 1, 0; (13779), 15, 3, 6; (13783), 3, 1, 0; (13786), 5, 1, 0; (13789), 8, 2, 7; (13790), 4, 1, 0; (13791), 28, 5, 6; (13794), 9, 2, 6; (13800), 5, 1, 0; (13801), 14, 3, 11; (13802), 14, 3, 11; (13808), 5, 1, 0; (13809), 7, 2, 8; (13810), 11, 3, 11; (13811), 8, 2, 7; (13812), 8, 2, 7; (13813), 14, 3, 10; (13814), 18, 4, 11; (13815), 5, 1, 0; (13817), 5, 1, 0; (13818), 10, 2, 6; (13819), 10, 2, 1; (13820), 5, 1, 0; (13821), 5, 1, 0; (13822), 15, 3, 14; (13823), 11, 3, 2; (13824), 24, 5, 41; (13825), 19, 4, 14; (13826), 5, 1, 0; (13827), 4, 1, 0; (13829), 3, 1, 0; (13830), 3, 1, 0; (13831), 5, 1, 0; (13832), 15, 3, 27; (13833), 5, 1, 0; (13834), 19, 4, 30; (13835), 14, 3, 8; (13836), 9, 2, 3; (13837), 10, 2, 6; (13839), 5, 1, 0; (13840), 9, 2, 138; (13841), 14, 3, 139; (13846), 5, 1, 0; (13847), 4, 1, 0; (13848), 9, 2, 36; (13849), 9, 2, 165; (13851), 15, 3, 173; (13854), 4, 1, 0; (13855), 8, 2, 11; (13856), 18, 4, 176; (13857), 10, 2, 5; (13858), 10, 2, 1; (13863), 5, 1, 0; (13864), 5, 1, 0; (13865), 4, 1, 0; (13866), 15, 3, 173; (13870), 3, 1, 0; (13872), 13, 3, 8; (13880), 8, 2, 137; (13886), 27, 5, 5; (13887), 5, 1, 0; (13888), 4, 1, 0; (13889), 8, 2, 1; (13898), 18, 4, 15; (13900), 8, 2, 7; (13903), 20, 4, 4; (13904), 34, 5, 12; (13906), 4, 1, 0; (13907), 5, 1, 0; (13908), 5, 1, 0; (13910), 3, 1, 0; (13911), 20, 4, 6; (13912), 5, 1, 0; (13913), 4, 1, 0; (13914), 17, 4, 16; (13915), 17, 4, 11; (13916), 5, 1, 0; (13917), 8, 2, 6; (13918), 5, 1, 0; (13919), 5, 1, 0; (13920), 5, 1, 0; (13922), 20, 4, 4; (13923), 10, 2, 6; (13924), 20, 4, 15; (13925), 18, 4, 15; (13927), 24, 4, 3; (13928), 3, 1, 0; (13929), 22, 4, 3; (13933), 20, 4, 15; (13934), 9, 2, 7; (13935), 4, 1, 0; (13936), 8, 2, 13; (13937), 4, 1, 0; (13939), 13, 2, 1; (13940), 10, 2, 52; (13941), 19, 4, 13; (13942), 8, 2, 5; (13943), 5, 1, 0; (13944), 15, 3, 10; (13945), 40, 6, 6; (13947), 15, 3, 10; (13948), 5, 1, 0; (13949), 10, 2, 5; (13950), 12, 3, 6; (13951), 5, 1, 0; (13952), 15, 3, 9; (13953), 19, 4, 15; (13954), 5, 1, 0; (13956), 13, 3, 6; (13958), 24, 4, 5; (13959), 10, 2, 5; (13960), 34, 6, 6; (13962), 18, 3, 5; (13968), 5, 1, 0; (13970), 8, 2, 6; (13971), 3, 1, 0; (13972), 15, 3, 9; (13975), 3, 1, 0; (13977), 17, 4, 65; (13978), 15, 3, 5; (13979), 10, 2, 3; (13980), 5, 1, 0; (13981), 17, 4, 11; (13982), 4, 1, 0; (13984), 3, 1, 0; (13985), 5, 1, 0; (13986), 7, 2, 7; (13989), 5, 1, 0; (13990), 5, 1, 0; (13992), 4, 1, 0; (13993), 8, 2, 6; (13998), 4, 1, 0; (13999), 14, 2, 1; (14000), 9, 2, 6; (14004), 3, 1, 0; (14005), 5, 1, 0; (14006), 9, 2, 3; (14007), 35, 6, 12; (14009), 8, 2, 5; (14011), 9, 2, 1; (14012), 19, 4, 16; (14014), 29, 6, 6; (14015), 5, 1, 0; (14016), 5, 1, 0; (14017), 13, 3, 6; (14019), 23, 4, 5; (14021), 4, 1, 0; (14022), 12, 3, 5; (14023), 5, 1, 0; (14028), 5, 1, 0; (14029), 5, 1, 0; (14030), 14, 3, 10; (14031), 11, 3, 506; (14032), 4, 1, 0; (14034), 11, 3, 5; (14036), 20, 4, 3; (14037), 19, 4, 3; (14038), 8, 2, 4; (14039), 5, 1, 0; (14042), 5, 1, 0; (14043), 14, 3, 10; (14044), 5, 1, 0; (14045), 5, 1, 0; (14046), 3, 1, 0; (14048), 35, 6, 6; (14050), 10, 2, 4; (14051), 20, 4, 15; (14052), 5, 1, 0; (14054), 8, 2, 5; (14056), 15, 3, 2; (14058), 35, 5, 12; (14059), 5, 1, 0; (14060), 8, 2, 7; (14061), 5, 1, 0; (14062), 30, 5, 6; (14063), 23, 4, 12; (14064), 5, 1, 0; (14066), 7, 2, 5; (14067), 3, 1, 0; (14068), 8, 2, 4; (14069), 5, 1, 0; (14070), 12, 3, 60; (14072), 5, 1, 0; (14073), 19, 4, 12; (14074), 14, 3, 10; (14075), 5, 1, 0; (14076), 10, 2, 7; (14077), 4, 1, 0; (14083), 10, 2, 5; (14086), 5, 1, 0; (14091), 15, 3, 10; (14095), 3, 1, 0; (14100), 5, 1, 0; (14101), 5, 1, 0; (14102), 4, 1, 0; (14104), 4, 1, 0; (14105), 9, 2, 1; (14106), 8, 2, 1; (14107), 12, 3, 5; (14109), 14, 3, 69; (14110), 12, 3, 7; (14112), 5, 1, 0; (14113), 8, 2, 168; (14117), 8, 2, 7; (14118), 4, 1, 0; (14119), 10, 3, 53; (14120), 10, 2, 4; (14121), 13, 3, 66; (14124), 15, 3, 7; (14125), 3, 1, 0; (14126), 8, 2, 5; (14127), 10, 2, 167; (14128), 13, 3, 66; (14130), 9, 2, 6; (14131), 8, 2, 6; (14132), 5, 1, 0; (14133), 20, 3, 5; (14134), 5, 1, 0; (14136), 13, 3, 9; (14137), 5, 1, 0; (14138), 13, 3, 3; (14142), 5, 1, 0; (14144), 5, 1, 0; (14146), 12, 3, 2; (14147), 5, 1, 0; (14149), 9, 2, 4; (14150), 4, 1, 0; (14151), 5, 1, 0; (14155), 19, 4, 11; (14157), 5, 1, 0; (14158), 31, 6, 6; (14159), 9, 2, 7; (14162), 19, 4, 15; (14165), 20, 4, 11; (14166), 20, 4, 15; (14167), 13, 3, 7; (14168), 5, 1, 0; (14169), 8, 2, 6; (14171), 9, 2, 110; (14173), 9, 2, 6; (14174), 27, 5, 4; (14177), 5, 1, 0; (14179), 5, 1, 0; (14180), 4, 1, 0; (14181), 8, 2, 3; (14185), 20, 4, 6; (14186), 18, 4, 8; (14187), 21, 4, 4; (14188), 5, 1, 0; (14190), 15, 3, 10; (14191), 10, 2, 7; (14192), 13, 3, 13; (14193), 5, 1, 0; (14194), 5, 1, 0; (14195), 8, 2, 2; (14196), 19, 4, 16; (14197

(14230), 8, 2, 172; (14232), 5, 1, 0; (14233), 5, 1, 0; (14234), 10, 2, 2; (14236), 5, 1, 0; (14237), 5, 1, 0; (14238), 14, 3, 3; (14239), 5, 1, 0; (14240), 17, 4, 114; (14241), 5, 1, 0; (14242), 9, 2, 10; (14243), 4, 1, 0; (14247), 9, 2, 430; (14248), 5, 1, 0; (14249), 8, 2, 100; (14251), 5, 1, 0; (14254), 8, 2, 6; (14255), 4, 1, 0; (14256), 5, 1, 0; (14257), 9, 2, 7; (14259), 10, 2, 139; (14260), 13, 3, 137; (14261), 17, 4, 125; (14262), 8, 2, 51; (14263), 8, 2, 87; (14265), 8, 2, 51; (14266), 7, 2, 1; (14269), 14, 3, 176; (14270), 5, 1, 0; (14271), 14, 4, 13; (14273), 5, 1, 0; (14275), 3, 1, 0; (14276), 5, 1, 0; (14277), 9, 2, 7; (14278), 8, 2, 50; (14280), 5, 1, 0; (14281), 8, 2, 6; (14282), 9, 2, 3; (14283), 25, 5, 5; (14284), 20, 4, 6; (14285), 11, 3, 2; (14287), 18, 4, 6; (14291), 13, 3, 3; (14293), 9, 2, 6; (14295), 23, 5, 6; (14297), 10, 2, 10; (14298), 20, 4, 4; (14299), 31, 7, 13; (14302), 5, 1, 0; (14303), 4, 1, 0; (14304), 10, 2, 2; (14305), 17, 3, 5; (14306), 13, 3, 11; (14307), 24, 5, 59; [209453, 19971, 4616*, 1995/12/19–2000/04/16]

706 Salinas

J. E. Hall, 10180 County Rd. 190, Salida, CO 81201, U.S.A. [teila@rmi.net]

0.25-m $f/6$ Newtonian reflector + CCD

GSC

1997 RP₁₀, 5, 2, 2; 2000 CA₈₄, 2, 1, 0; 2000 CY₈₄, 4, 2, 2; 2000 CS₉₃, 2, 1, 0; 2000 DM₃₄, 2, 1, 0; 2000 DE₃₅, 4, 2, 2; 2000 EL₁₆₅, 2, 1, 0; (4094), 2, 1, 0; (10236), 2, 1, 0; [25, 9, 0*, 2000/02/28–2000/04/04]

709 W & B Observatory, Cloudcroft

W. Offutt, P.O. Drawer 1130, Cloudcroft, NM 88317, U.S.A.

[offutt@galileo.apo.nmsu.edu]

0.60-m $f/7$ Ritchey-Chrétien + CCD

USNO-SA1.0

1998 TL₇, 14, 2, 1; 1999 HS₁₁, 3, 1, 0; 1999 HB₁₂, 3, 1, 0; 1999 RQ₃₆, 8, 1, 0; 2000 EJ₃₇, 8, 1, 0; [36, 5, 0*, 2000/04/04–2000/04/07]

711 McDonald Observatory

J. G. Ries, McDonald Observatory, University of Texas, Austin, TX 78712, U.S.A.

[moon@astro.as.utexas.edu]

0.76-m $f/3.0$ reflector + CCD

GSC

1996 BJ₁, 2, 1, 0; 2000 AM₂₄₂, 3, 1, 0; 2000 EA₁₅₉ *, 17, 2, 1; [22, 3, 1*, 1996/01/23–2000/03/10]

713 Thornton

R. A. Koff, 1915 W. 101st Ave., Thornton, CO 80221, U.S.A.

[Bob.Koff@worldnet.att.net]

0.20-m $f/10$ Schmidt-Cassegrain + CCD

USNO-A2.0

2000 FL₁₀, 4, 1, 0; [4, 1, 0*, 2000/04/02]

715 Las Cruces

D. S. Dixon, 5975 Moonrise Vista, Las Cruces, NM 88012, U.S.A.

[ddixon@lascruces.com]

0.3-m $f/3.5$ Schmidt-Cassegrain + CCD

USNO-A2.0

1998 QO₉₃, 3, 1, 0; 1998 XR₉, 3, 1, 0; 1998 YP₁₂, 3, 1, 0; 2000 DW₁₇, 3, 1, 0; 2000 EY₁₂₁, 3, 1, 0; 2000 GH₁, 2, 1, 0; [17, 6, 0*, 2000/03/12–2000/04/14]

718 University of Utah Hansen Planetarium, Tooele

P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt

Lake City, UT 84111-1590, U.S.A. [p.wiggins@m.cc.utah.edu]

Observers P. Wiggins, H. Phaneuf

0.35-m $f/4.1$ Schmidt-Cassegrain + CCD

GSC

1992 ER₁₁, 9, 3, 6; 1995 BZ, 9, 3, 8; 1996 CQ, 6, 2, 1; (3800), 9, 3, 5; [33, 4, 0*, 2000/03/22–2000/04/07]

719 Etscorn Observatory

D. A. Klinglesmith III, 1215 Vista Drive, Socorro, NM 87801, U.S.A.

[TheKs@aol.com]

0.355-m Schmidt-Cassegrain + CCD

GSC

2000 EA₁₀₇, 2, 1, 0; [2, 1, 0*, 2000/03/20]

720 Universidad de Monterrey

P. V. Sada, Apartado Postal 134-C, MX-66270 San Pedro Garza García, Nuevo

Leon, Mexico [psada@ix.netcom.com]

0.18-m $f/15.0$ Maksutov + focal reducer + CCD

USNO-A2.0

1997 NE₃, 5, 2, 3; 1998 SU₆₅, 5, 2, 3; 1998 SR₁₀₇, 5, 2, 3; 1998 SE₁₁₇, 6, 2, 3; 1998 TF, 6, 2, 3; (9991), 4, 2, 3; [31, 6, 0*, 2000/03/06–2000/03/09]

721 Lime Creek

R. Linderholm, R2 Box 79, Cambridge, NE 69022, U.S.A. [lindh@swnebr.net]

0.25-m $f/3.3$ Schmidt-Cassegrain + CCD

GSC

2000 GT₁ *, 7, 3, 5; [7, 1, 1*, 2000/04/04–2000/04/09]

723 Cottonwood Observatory, Ada

J. Waller, Rt#3 Box 175c, Ada, OK 74820, U.S.A. [jwaller@chickasaw.com]

0.30-m $f/6$ Schmidt-Cassegrain + CCD

GSC-ACT

1998 WA₈, 6, 2, 6; (497), 6, 2, 6; (911), 3, 1, 0; [15, 3, 0*, 2000/03/28–2000/04/03]

725 Fair Oaks Ranch

J. V. McClusky, McClusky Observatory, 31789 Sunland, Fair Oaks Ranch,

TX 78015, U.S.A. [mcclusky@lonestar.utsa.edu]

0.46-m $f/4.5$ Newtonian reflector + CCD

GSC-ACT

2000 CR₁₀₆ *, 3, 1, 0; 2000 DR₁₁₀, 7, 2, 5; 2000 EK₇₅, 6, 2, 5; [16, 3, 1*, 2000/02/05–2000/04/09]

726 Brainerd

J. E. Wentworth, 6469 Madson Ave. N.W., Brainerd, MN 56401, U.S.A.

[jimw@brainerd.net]

Observers C. Van Valkenburg, J. Wentworth

0.280-m Schmidt-Cassgrain + CCD

GSC-1.1

1999 NC₄₃, 5, 1, 0; 2000 EW₇₀, 3, 1, 0; [8, 2, 0*, 2000/03/23–2000/03/26]

727 Zeno Observatory, Edmond

T. Stafford, 2947 Village Circle, Edmond, OK 73013, U.S.A.

[tstaffor@agnetplex.com]

0.15-m $f/6$ refractor + CCD

GSC

2000 GN₂ *, 12, 4, 9; (1035), 3, 1, 0; (1707), 3, 1, 0; (3375), 3, 1, 0; (3668), 3, 1, 0; (8133), 3, 1, 0; (13508), 3, 1, 0; [30, 7, 1*, 2000/03/09–2000/04/14]

732 Oaxaca

J. Roe, Apdo. No. 221, MX-68000 Oaxaca, Mexico [jamesroe@antequera.com]

0.25-m $f/3.4$ reflector + CCD

GSC-ACT

1983 RQ₃, 6, 2, 1; 1990 SK₂₈, 2, 1, 0; 2000 CG₉₇, 7, 3, 26; 2000 CO₉₇, 8, 3, 26; 2000 CM₁₀₁, 6, 2, 2; 2000 DE₁, 5, 2, 2; 2000 DQ₂, 4, 2, 1; 2000 DY₆, 5, 2, 1; 2000 DZ₆, 5, 2, 1; 2000 DO₇₁, 3, 2,

2; 2000 DA₇₃, 9, 3, 3; 2000 DF₇₅, 10, 4, 6; 2000 EA, 6, 2, 1; 2000 EC, 6, 2, 1; 2000 EP, 5, 2, 3; 2000 EJ₁₀, 6, 2, 14; 2000 EG₁₀₈, 5, 2, 2; 2000 EH₁₀₈, 6, 2, 1; 2000 EY₁₀₉, 6, 2, 1; 2000 FY₂ *, 9, 4, 5; (1097), 8, 3, 2; (9778), 3, 1, 0; (9955), 3, 1, 0; (13903), 3, 1, 0; (14167), 5, 2, 1; [141, 25, 1*, 2000/03/11–2000/04/07]

734 Farpoint Observatory, Eskridge

G. Hug, RTE 1 Box 35c, Eskridge, KS 66423, U.S.A. [frogstar@inlandnet.net]

Observers D. Brunken, G. Hug, G. Bell, C. Lambrecht, K. Willnauer

Measurer G. Hug, C. Lambrecht

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1, USNO-SA1.0, USNO-SA2.0

2000 CC₅₉, 4, 1, 0; 2000 EY₂₆, 4, 1, 0; 2000 EL₅₆, 4, 1, 0; 2000 EZ₁₂₇, 3, 1, 0; 2000 EV₁₃₁, 8, 2, 1; 2000 EW₁₃₁, 15, 3, 14; 2000 ES₁₃₂, 11, 2, 1; 2000 EH₁₃₇ *, 17, 4, 23; 2000 FE *, 23, 4, 15; 2000 FE₁ *, 23, 5, 12; 2000 FV₂ *, 12, 4, 12; 2000 FW₂ *, 14, 5, 12; 2000 FL₈ *, 14, 4, 7; 2000 GQ₇, 3, 1, 0; 2000 GK₈₂ *, 15, 4, 4; 2000 GP₈₂, 4, 1, 0; (9895), 5, 1, 0; (10144), 5, 1, 0; [184, 18, 7*, 2000/03/12–2000/04/12]

739 Sunflower Observatory, Olathe

L. Robinson, Sunflower Observatory, 14680 W. 144 St., Olathe, KS 66062, U.S.A.

[lrobinson@ix.netcom.com]

0.30-m Schmidt-Cassegrain + CCD

GSC-1.1

1993 SA₁₄, 4, 1, 0; 1994 QC, 3, 1, 0; 1995 FK₄, 9, 2, 1; 1998 FF₂, 3, 1, 0; 1999 HF₁, 3, 1, 0; 1999 NC₄₃, 3, 1, 0; 1999 VS₆, 3, 1, 0; 2000 BG₁₉, 3, 1, 0; 2000 EL₅₈, 5, 2, 1; 2000 ED₁₀₃, 3, 1, 0; 2000 ED₁₀₄, 3, 1, 0; 2000 EX₁₀₆, 6, 2, 7; 2000 EZ₁₄₈, 6, 2, 7; 2000 FL₁₀, 3, 1, 0; 2000 FO₁₀, 2, 1, 0; 2000 FX₃₉, 2, 1, 0; 2000 FF₄₀, 2, 1, 0; 2000 FG₄₀, 2, 1, 0; 2000 FH₄₀, 7, 2, 1; 2000 FM₄₀, 2, 1, 0; 2000 FZ₄₁, 2, 1, 0; 2000 GH₁, 3, 1, 0; 2000 GA₂, 5, 1, 0; 2000 GE₂, 3, 1, 0; 2000 GF₂, 3, 1, 0; 2000 GM₃, 2, 1, 0; 2000 GW₃, 2, 1, 0; 2000 GR₁₂₇, 2, 1, 0; 2000 GU₁₂₇, 5, 2, 6; 2000 GV₁₂₇, 2, 1, 0; 2000 GR₁₄₆, 3, 1, 0; (268), 2, 1, 0; (1036), 3, 1, 0; (1097), 3, 1, 0; (1615), 4, 1, 0; (1627), 3, 1, 0; (1951), 2, 1, 0; (2034), 2, 1, 0; (3370), 3, 1, 0; (5604), 3, 1, 0; (6564), 3, 1, 0; (11254), 3, 1, 0; [137, 42, 0*, 2000/03/25–2000/04/15]

749 Oakwood

J. A. Howell, 4046 Lyman Way, Gainesville, GA 30507, U.S.A.

[andyho@mindspring.com]

0.46-m $f/4.4$ Newtonian reflector + CCD

GSC

(14201), 6, 2, 3; [6, 1, 0*, 2000/03/05–2000/03/08]

750 Hobbs Observatory, Fall Creek

R. Elliott, S475 County Road K, Fall Creek, WI 54742, U.S.A.

[elliottb@uwec.edu]

0.30-m $f/3.3$ reflector + CCD

GSC-ACT

1991 DB, 6, 1, 0; 2000 FL₁₀, 8, 1, 0; (4484), 2, 1, 0; (5253), 3, 1, 0; [19, 4, 0*, 2000/03/29–2000/04/02]

757 High Point

D. K. Chesney, 4210 Lauren Place, High Point, NC 27265, U.S.A.

[dkchesney@hpe.infi.net]

0.25-m Schmidt-Cassegrain + CCD

GSC

2000 GM₂ *, 4, 2, 1; [4, 1, 1*, 2000/04/05–2000/04/06]

801 Oak Ridge

R. E. McCrosky, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A.

1.5-m reflector + CCD

GSC

1998 XU₁, 2, 1, 0; [2, 1, 0*, 1995/01/30]

808 Carlos U. Cesco Observatory, El Leoncito

C. E. Lopez, Felix Aguilar Observatory, Benavidez 8175 (Oeste), AR-5407

Marquesado-San Juan, Argentina [clopez@iinfo.unsj.edu.ar]

Observers M. R. Cesco, H. S. Lepez, C. E. Lopez, J. E. Torres, J. A. Vicentela

Measurers C. E. Lopez, R. A. Gil-Hutton

0.5-m $f/7.5$ double astrograph + CCD

GSC

1988 RN₄, 2, 1, 0; 1989 AA, 2, 1, 0; 1991 SU, 2, 1, 0; 1992 SC₂₇, 2, 1, 0; 1997 QP, 2, 1, 0; 1998 FF₂, 2, 1, 0; 1998 UE, 6, 3, 11; 1998 WQ₃, 2, 1, 0; 1998 XL₅, 2, 1, 0; 1998 XS₂₀, 2, 1, 0; 1999 US₃, 4, 2, 11; 1999 VL₄₀, 6, 3, 14; 1999 XK₁₄, 2, 1, 0; 1999 YS, 2, 1, 0; 2000 AX₉₃, 4, 2, 2; 2000 AD₉₇, 2, 1, 0; 2000 AV₁₃₆, 2, 1, 0; 2000 AV₁₃₇, 2, 1, 0; 2000 AN₁₆₄, 2, 1, 0; 2000 AP₁₆₄, 2, 1, 0; 2000 AA₂₀₂, 2, 1, 0; 2000 AJ₂₀₃, 2, 1, 0; 2000 AZ₂₀₃, 2, 1, 0; 2000 CD₅₈, 2, 1, 0; 2000 CO₁₀₁, 8, 4, 16; 2000 ET₇₀, 2, 1, 0; 2000 EF₁₀₈, 4, 2, 10; 2000 FN₁₀, 9, 2, 5; (322), 2, 1, 0; (1005), 2, 1, 0; (1036), 8, 4, 15; (1108), 2, 1, 0; (1264), 2, 1, 0; (1373), 6, 3, 16; (1571), 2, 1, 0; (1626), 2, 1, 0; (1685), 6, 3, 14; (1750), 4, 2, 2; (1800), 2, 1, 0; (1917), 2, 1, 0; (2023), 2, 1, 0; (2083), 6, 3, 15; (2104), 4, 2, 13; (2131), 2, 2, 1; (2966), 6, 3, 5; (3122), 2, 1, 0; (3269), 2, 1, 0; (4355), 4, 2, 3; (4617), 2, 1, 0; (4666), 2, 1, 0; (4676), 2, 1, 0; (4896), 2, 1, 0; (4954), 2, 1, 0; (5164), 2, 1, 0; (5635), 2, 1, 0; (5806), 6, 3, 12; (5841), 2, 1, 0; (6019), 2, 1, 0; (6067), 2, 1, 0; (6447), 2, 1, 0; (7124), 4, 2, 12; (7560), 2, 1, 0; (7579), 2, 1, 0; (7757), 2, 1, 0; (7843), 2, 1, 0; (7874), 2, 1, 0; (7914), 2, 1, 0; (7952), 2, 1, 0; (7965), 4, 2, 9; (8171), 2, 1, 0; (9739), 2, 1, 0; (13018), 2, 1, 0; (13808), 2, 1, 0; (14198), 2, 1, 0; [213, 75, 0*, 1992/09/20–2000/04/11]

809 European Southern Observatory

C. Cavadore, MitterWeg Str. 2, Garching bei München, D-85748 Germany

[ccavador@eso.org] (1)

H. Debehogne, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180

Brussels, Belgium [henri@astro.oma.be] (3)

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [elst@atmos.oma.be] (4)

7 = 3 + 4

C.-I. Lagerkvist, Uppsala Observatory, Box 515, S-75120 Uppsala, Sweden

[classe@astro.uu.se] (8)

G. Hahn, DLR Institute of Planetary Exploration, Rudower Chaussee 5, D-12489

Berlin, Germany [Gerhard.Hahn@DLR.de] (9)

Observers G. Pizarro, O. Pizarro, A. Nathues, H. Debehogne, C. Cavadore,

F. Colas, G. Hahn, S. Mottola

Measurers E. W. Elst, O. Hernius, C.-I. Lagerkvist, A. Niemi, O. Karlsson,

H. Debehogne, C. Cavadore, F. Colas, G. Hahn, S. Mottola

1.0-m Schmidt, Bochum telescope + CCD

USNO-A2.0

{1} 2000 CV₁₁₃, 3, 1, 0; 2000 CW₁₁₃, 3, 1, 0; 2000 CX₁₁₃, 3, 1, 0; 2000 CY₁₁₃, 3, 1, 0; 2000 CZ₁₁₃, 3, 1, 0; [15, 5, 0*, 2000/02/13]

{4} 1977 XF₂, 3, 1, 0; 1986 WZ, 3, 1, 0; 1989 YO₂, 3, 1, 0; 1991 GO₈, 3, 1, 0; 1992 DN₃, 3, 1, 0; 1992 DK₈, 6, 2, 3; 1993 NW₁, 3, 1, 0; 1993 RP₇, 3, 1, 0; 1993 RZ₁₄, 3, 1, 0; 1993 TR₂₈, 3, 1, 0; 1993 TZ₂₉, 3, 1, 0; 1994 EY₆, 3, 1, 0; 1994 VL₁, 3, 1, 0; 1996 EW₇, 3, 1, 0; 1996 FU₂₁, 3, 1, 0; 1996 FY₂₂, 3, 1, 0; 1996 GP₆, 3, 1, 0; 1996 HK₈, 3, 1, 0; 1996 HT₉, 6, 2, 2; 1996 HX₁₂, 3, 1, 0; 1996 HU₂₂, 6, 2, 4; 1996 HA₂₃, 3, 1, 0; 1996 HA₂₄, 6, 2, 1; 1996 HV₂₅, 3, 1, 0; 1996 KS₅, 3, 1, 0; 1996 PZ₇, 3, 1, 0; 1997 HK₃, 3, 1, 0; 1997 LC₁₀, 3, 1, 0; 1997 LD₁₂, 3, 1, 0; 1997 LX₁₃, 3, 1, 0; 1997 LE₁₄, 3, 1, 0; 1998 QL₁, 3, 1, 0; 1998 QO₆, 3, 1, 0; 1998 QC₄₅, 3, 1, 0; 1998 RZ₄₉, 3, 1, 0; 1998 RE₆₅, 6, 1, 0; 1998 SM₄, 3, 1, 0; 1998 SJ₁₁₅, 3, 1, 0; 1998 SK₁₂₅, 3, 1, 0; 1998 SJ₁₄₇, 3, 1, 0; 1998 UC₄₁, 3, 1, 0; 1998 VN₂₄, 3, 1, 0; 1999 AL, 3, 1, 0; 1999 AR₁₆, 3, 1, 0; 1999 BN₁₄, 3, 1, 0; 1999 CO₁₆, 3, 1, 0; 1999 EF₁₂, 3, 1, 0; 1999 NX₁₄, 3, 1, 0; 1999 NW₃₇, 3, 1, 0; 1999 TA₃₁, 3, 1, 0; 1999 XY₇₃, 3, 1, 0; 1999 XU₁₃₁, 3, 1, 0; 1999 XV₁₇₀, 3, 1, 0; 1999 XL₁₈₈, 3, 1, 0; 2000 AC₂₃, 3, 1, 0; 2000 AA₁₄₂, 3, 1, 0; 2000 AC₁₅₀, 3, 1, 0; 2000 DF₁₃, 3, 1, 0; 2000 DT₁₃, 3, 1, 0; 2000 DX₁₇, 3, 1, 0; 2000 DV₆₂, 3, 1, 0; 2000 DW₆₉, 3, 1, 0; 2000 DY₈₇, 3, 1, 0; 2000 EN₂₅, 3, 1, 0; 2000 EC₄₆, 3, 1, 0; 2000 EO₄₆, 3, 1, 0; 2000 EB₅₀, 3, 1, 0; 2000 EN₇₀, 6, 2, 2; 2000 ER₁₄₇, 3, 1, 0; 2000 FA₃, 3, 1, 0; 2000 FJ₂₈, 6, 2, 7; 2000 FJ₃₀, 2, 1, 0; 2000 FK₃₀, 3, 1, 0; 2000 FK₃₅, 3, 1, 0; 2000 FW₃₈,

2000 APR. 18

M.P.C. 39789

4, 2, 11; 2000 FK₄₄, 3, 1, 0; 2254 T-3, 3, 1, 0; (13845), 3, 1, 0; (14256), 3, 1, 0; [258, 79, 0*, 1992/05/02–1998/09/21]

{7} 1992 JR₃, 3, 1, 0; 1993 RC₇, 3, 1, 0; 1993 TH₂₁, 3, 1, 0; 1993 TG₄₁, 3, 1, 0; 1996 HO₁₃, 3, 1, 0; 1996 HA₂₃, 3, 1, 0; 1996 LZ, 6, 2, 10; 1997 UA₂₁, 3, 1, 0; 1999 KZ₁, 3, 1, 0; 2000 EZ₃₉, 3, 1, 0; 7627 P-L, 6, 2, 1; 2254 T-3, 3, 1, 0; [42, 12, 0*, 1993/09/24–1994/07/12]

{8} 1973 SU, 2, 1, 0; 1989 YE₄, 2, 2, 1; 1993 FQ₁₅, 2, 1, 0; 1996 XN₁₅, 8, 6, 27; 1997 WK₅₇, 3, 2, 3; 1999 KZ₁, 6, 6, 34; 2000 AX₁₁₆, 4, 4, 29; 2633 P-L, 8, 8, 34; 2706 P-L, 4, 4, 34; [39, 9, 0*, 1995/08/19–1997/11/28]

{9} 2000 EO₃₈, 4, 1, 0; [4, 1, 0*, 1997/08/29]

816 Rand Observatory

G. R. Viscome, 30 Hyland Avenue, Lake Placid, NY 12946, U.S.A.

[GeorgeV@nct.org]

0.37-m $f/6$ reflector + CCD

USNO-SA1.0

1995 JH₁, 5, 1, 0; [5, 1, 0*, 1996/08/11]

837 Jupiter

B. A. Segal, 3084 NW 63 Street, Boca Raton, FL 33496, U.S.A.

[astrobas@gate.net]

0.3-m $f/6.3$ SCT + CCD

USNO-SA2.0

2000 EV₅₀, 3, 1, 0; 2000 FZ₂ *, 8, 2, 3; [11, 2, 1*, 2000/03/26–2000/03/29]

849 Everstar Observatory, Olathe

G. Fedon, 21251 W. 123rd St., Olathe, KS 66061, U.S.A. [antares@everstar.com]

Observers M. Abraham, G. Fedon

0.25-m Schmidt-Cassegrain + CCD

GSC-1.1

1997 NM₃, 3, 1, 0; 2000 CW₅₇, 3, 1, 0; 2000 FU₃₇, 3, 1, 0; 2000 GL₄, 3, 1, 0; (185), 2, 1, 0; (824), 3, 1, 0; (997), 2, 1, 0; (1462), 3, 1, 0; (1557), 2, 1, 0; (1782), 4, 1, 0; (1802), 1, 1, 0; (1975), 4, 1, 0; (2424), 3, 1, 0; (2859), 2, 1, 0; (2869), 2, 1, 0; (2985), 2, 1, 0; (3136), 3, 1, 0; (4621), 3, 1, 0; (5586), 3, 1, 0; (5920), 2, 1, 0; (6184), 3, 1, 0; (6610), 3, 1, 0; (7964), 4, 1, 0; (9369), 4, 1, 0; (13773), 4, 1, 0; (14100), 3, 1, 0; [74, 26, 0*, 2000/03/22–2000/04/14]

850 Cordell-Lorenz Observatory, Sewanee

D. T. Durig, SPO 1242, Sewanee, TN 37383, U.S.A. [ddurig@sewanee.edu]

Observers D. T. Durig, J. L. Wilson

Measurer D. T. Durig

0.3-m $f/5.8$ Schmidt-Cassegrain + CCD

GSC-1.1

1998 UB₂₃, 8, 1, 0; 2000 EW₁₀₆, 3, 1, 0; 2000 EX₁₀₆, 4, 1, 0; 2000 EB₁₀₇, 4, 1, 0; 2000 FR, 3, 1, 0; 2000 GD₂, 4, 1, 0; 2000 GF₁₅, 10, 1, 0; 2000 GP₈₂, 3, 1, 0; [39, 8, 0*, 2000/03/23–2000/04/10]

854 Sabino Canyon Observatory, Tucson

J. E. McGaha, 5100 Sabino Foothills, Tucson, AZ 85750, U.S.A.

[jmcgaha@azstarnet.com]

0.30-m $f/5.75$ Schmidt-Cassegrain + CCD

GSC-1.1

2000 FR, 3, 1, 0; 2000 FK₁₀, 3, 1, 0; 2000 GD₂, 3, 1, 0; 2000 GE₂, 2, 1, 0; 2000 GF₂, 3, 1, 0; 2000 GG₂, 3, 1, 0; 2000 GQ₇, 3, 1, 0; 2000 GO₈₂, 3, 1, 0; 2000 GP₈₂, 3, 1, 0; 2000 GU₁₂₇, 3, 1, 0; 2000 GV₁₂₇, 3, 1, 0; 2000 GW₁₂₇, 3, 1, 0; [35, 12, 0*, 2000/03/30–2000/04/12]

857 Iowa Robotic Observatory

R. Mutel, Department of Physics & Astronomy, University of Iowa, Iowa City,

IA 52242, U.S.A. [rlm@astro.physics.uiowa.edu]

Observers R. Mutel, C. Othon

0.5-m $f/8$ reflector + CCD

USNO-SA2.0

(2146), 5, 1, 0; (6493), 6, 1, 0; (7485), 4, 1, 0; (7996), 3, 1, 0; (9088), 5, 1, 0; (11395), 3, 1, 0; [26, 6, 0*, 2000/01/05]

858 Tebbutt Observatory, Edgewood

F. B. Zoltowski, Tebbutt Observatory, 70 Abajo Dr., Edgewood, NM 87015, U.S.A.

[fbzolt@compuserve.com]

0.3-m $f/3.3$ Schmidt-Cassegrain + CCD

USNO-SA2.0

1997 GV₂₁, 2, 1, 0; 1998 SW₇₃, 3, 1, 0; 2000 CC, 3, 1, 0; 2000 CT₃₄, 2, 1, 0; 2000 CW₈₀, 3, 1, 0; 2000 DW₆, 2, 1, 0; 2000 DV₁₁₀, 2, 1, 0; 2000 EB₄, 5, 2, 15; 2000 EE₅₀, 6, 2, 11; 2000 EF₅₀, 4, 2, 11; 2000 ES₅₀, 5, 2, 11; 2000 ET₅₀, 4, 2, 11; 2000 EU₁₀₆, 3, 1, 0; (9798), 2, 1, 0; [46, 14, 0*, 2000/03/01–2000/03/26]

860 Valinhos

P. R. Holvorcem, Departamento de Matematica/IMECC, Universidade Estadual de
Campiñas SP, BR-13081-970, Brazil [canis@mpc.com.br]

Observers P. R. Holvorcem, M. Breganhola

0.36-m $f/3.6$ Schmidt-Cassegrain + CCD

GSC-ACT, USNO-A2.0

1998 FF₂, 3, 1, 0; 1999 VS₆, 3, 1, 0; 2000 EM₄₇, 2, 1, 0; 2000 EE₁₀₄, 6, 2, 2; 2000 EW₁₀₆, 3, 1, 0; 2000 EX₁₀₆, 2, 1, 0; 2000 EZ₁₄₈, 4, 1, 0; 2000 FE₁, 3, 1, 0; 2000 FW₂, 2, 1, 0; 2000 FE₅, 6, 2, 3; 2000 FG₅, 3, 1, 0; 2000 FH₅, 6, 2, 3; 2000 FJ₅, 6, 2, 3; 2000 FO₈, 3, 1, 0; 2000 FL₁₀, 8, 1, 0; 2000 FN₁₀, 23, 4, 14; 2000 FO₁₀, 11, 3, 12; 2000 FZ₁₀, 3, 1, 0; 2000 FB₁₁, 3, 1, 0; 2000 FG₁₃, 2, 1, 0; 2000 FK₁₃, 2, 1, 0; 2000 FL₁₃, 2, 1, 0; 2000 GV, 8, 3, 6; 2000 GE₂, 10, 3, 11; 2000 GF₂, 8, 2, 2; 2000 GG₂, 3, 1, 0; 2000 GU₁₂₇, 5, 2, 5; 2000 GV₁₂₇, 3, 1, 0; 2000 GX₁₂₇, 4, 1, 0; 2000 GQ₁₄₆, 7, 2, 3; 2000 GR₁₄₆, 11, 2, 2; 2000 GS₁₄₆, 8, 2, 7; (433), 6, 2, 5; (3122), 3, 1, 0; [182, 34, 0*, 2000/04/02–2000/04/16]

865 Emmy Observatory, New Paltz

L. Weber, 1 Emmy Lane, New Paltz, NY 12561, U.S.A. [larryweber@mhv.net]

0.20-m $f/6.3$ Schmidt-Cassegrain + CCD

GSC

2000 EW₇₀, 16, 3, 2; [16, 1, 0*, 2000/03/23–2000/03/25]

886 Susono

M. Akiyama, 1655-23, Chabatake, Susono, Shizuoka-Ken, 410-11 Japan

0.25-m $f/6.3$ reflector + CCD

GSC

1997 AQ₆, 5, 2, 11; 1997 UC₁₁, 4, 2, 1; [9, 2, 0*, 2000/03/14–2000/03/26]

888 Gekko Observatory

T. Kagawa, 1308-222, Kuwahara, Kannami-cho, Tagata-gun, Shizuoka-Ken, 419-010, Japan

0.50-m $f/4.0$ reflector + CCD

GSC-1.1

1987 UR, 2, 1, 0; 1989 CR₁, 5, 2, 9; 1989 WD₃, 6, 2, 12; 1990 VH₃, 5, 2, 2; 1991 AK₁, 2, 1, 0; 1994 CN, 4, 2, 14; 1995 UB₈, 2, 1, 0; 1995 YR, 2, 1, 0; 1997 AQ₆, 3, 1, 0; 1997 SK₂₅, 3, 1, 0; 1997 TJ₁₉, 2, 1, 0; 1997 UB₁₁, 5, 2, 12; 1997 UC₁₁, 6, 2, 14; 1998 TB, 3, 1, 0; 1998 TE, 2, 1, 0; 1998 UU₆, 2, 1, 0; 1998 VP₅, 7, 3, 13; 1998 VU₅, 5, 2, 16; 1998 WL₅, 5, 2, 6; 1998 WM₅, 5, 2, 16; 1998 WN₆, 2, 1, 0; 1998 WE₇, 2, 1, 0; 1998 YH₁, 3, 1, 0; 1998 YL₈, 3, 1, 0; 1998 YM₁₂, 2, 1, 0; 1999 AK₅, 6, 2, 1; 1999 BY₂₅, 3, 1, 0; 1999 CC₅, 3, 1, 0; 1999 XD₃₆, 2, 1, 0; 2000 AG₁₆₆, 4, 1, 0; 2000 CH₂, 3, 1, 0; 2000 EB₄₁, 3, 1, 0; 2000 EO₉₇, 6, 2, 1; 2000 EN₁₃₈, 6, 2, 1; 2000 FA₃ *, 12, 4, 15; 2000 GN₄, 3, 1, 0; (4254), 2, 1, 0; [141, 37, 1*, 2000/01/08–2000/04/13]

900 Moriyama

Y. Ikari, Katube-Cho 626, Moriyama, Shiga-Ken 524, Japan

[ikari@gold.ocn.ne.jp]

0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
GSC

1991 DB, 2, 1, 0; 1999 US₃, 2, 1, 0; 2000 DO₁, 4, 2, 4; 2000 ES₇₀, 2, 1, 0; 2000 EV₇₀, 2, 1, 0;
2000 EE₁₀₄, 2, 1, 0; 2000 EZ₁₄₈, 4, 2, 10; 2000 FL₁₀, 4, 2, 5; 2000 GE₂, 6, 3, 10; 2000 GV₁₂₇, 4,
2, 5; [32, 10, 0*, 2000/03/01–2000/04/16]

903 Fukuchiyama

M. Yoshimi, Osas 185-4-101, Fukuchiyama, Kyoto 620-0845, Japan
[myoshimi@silver.ocn.ne.jp]

Observer M. Yoshimi

0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
GSC

2000 GE₂, 4, 2, 6; 2000 GU₁₂₇, 3, 1, 0; (2904), 2, 1, 0; [9, 3, 0*, 2000/03/30–2000/04/12]

905 Nachi-Katsuura Observatory

T. Urata, 1-8, Dobayashi 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
[urata@sannet.ne.jp]

Observer Y. Shimizu

Measurer T. Urata

0.40-m $f/3.3$ Baker-Schmidt
GSC

2000 GN₄, 3, 1, 0; [3, 1, 0*, 2000/04/06]

910 Caussols-ODAS

A. Maury, Observatoire de la Côte d'Azur, B.P. 229, F-06304 Nice, France
[maury@obs-azur.fr]

G. Hahn, DLR Institute of Planetary Exploration, Rudower Chaussee 5, D-12489
Berlin, Germany [Gerhard.Hahn@DLR.de]

Observers A. Maury, D. Albanese, G. Hahn, M. Hoffmann

Measurers A. Maury, G. Hahn

0.90-m Schmidt + CCD

GSC

1981 EE₃₂, 3, 1, 0; 1984 SJ₁, 3, 1, 0; 1986 QW₁, 3, 1, 0; 1993 RP₇, 3, 1, 0; 1995 YA₂₃, 3, 1, 0;
1996 HS₂₅, 3, 1, 0; 1997 LX₁₃, 3, 1, 0; 1997 LH₁₇, 3, 1, 0; 1997 SD₃₀, 3, 1, 0; 1997 WL₄, 3, 1, 0;
1998 QN₁₇, 3, 1, 0; 1998 SF₃₃, 3, 1, 0; 1998 TF₂₁, 3, 1, 0; 1998 TA₂₂, 3, 1, 0; 1998 UV₃₂, 3, 1, 0;
1998 VU₂₂, 3, 1, 0; 1998 VA₂₃, 6, 2, 110; 1998 VP₂₉, 3, 1, 0; 1998 VE₃₈, 3, 1, 0; 1998 VT₃₈, 3, 1,
0; 1998 WY₁₀, 3, 1, 0; 1998 XL₁, 3, 1, 0; 1998 YK₂₇, 3, 1, 0; 1999 AK₂₁, 3, 1, 0; 1999 CS₂₃, 3, 1,
0; 1999 TO₁₇, 3, 1, 0; 1999 WE₄, 3, 1, 0; 1999 XL₈, 3, 1, 0; 2000 AS₇, 6, 2, 62; 2000 AK₆₂, 3, 1,
0; 2000 AA₁₄₂, 3, 1, 0; 2000 DF₂₈, 3, 1, 0; 2000 DP₄₅, 3, 1, 0; 2000 DE₇₄, 3, 1, 0; 2000 DU₇₅, 3,
1, 0; 2000 EN₄₅, 3, 1, 0; 2000 EO₄₆, 6, 2, 110; 2000 EZ₄₆, 3, 1, 0; 2000 EQ₈₇, 3, 1, 0; 2000 EQ₉₃,
3, 1, 0; 2000 EV₁₁₃, 3, 1, 0; 2000 FC₁₃, 3, 1, 0; 2000 FN₃₁, 3, 1, 0; 2000 FB₄₈, 3, 1, 0; 2000 GM₄,
3, 1, 0; 2634 T-3, 3, 1, 0; 5050 T-3, 3, 1, 0; (13840), 3, 1, 0; (13867), 3, 1, 0; [156, 49, 0*,
1997/03/18–1999/01/19]

931 Punaauia

J. C. Pelle, BP 130085, 98717 Punaauia, French Polynesia [jcpelle@mail.pf]

0.20-m $f/10$ reflector + CCD

GSC

1996 JF₁, 2, 1, 0; 2000 EK₁₄, 2, 1, 0; 2000 EP₃₆, 2, 1, 0; 2000 EM₆₂, 2, 1, 0; 2000 ER₆₂, 2, 1, 0;
2000 ES₇₀, 3, 1, 0; 2000 EV₇₀, 2, 1, 0; 2000 EN₁₀₄, 2, 1, 0; 2000 FQ₁₀ *, 10, 4, 14; (7760), 2, 1,
0; [29, 10, 1*, 2000/03/23–2000/04/06]

952 Marxuquera

J. J. Gómez D., Cardenal Cisneros 55-4-8, E-46700 Gandia, Spain
[astsafor@arrakis.es]

0.25-m $f/6.3$ Schmidt-Cassegrain + CCD

GSC

(589), 2, 1, 0; (1721), 2, 1, 0; (6135), 2, 1, 0; [6, 3, 0*, 2000/02/25–2000/03/04]

967 Greens Norton

R. J. Neville, 19 Bradden Way, Greens Norton, Towcester, Northamptonshire
NN12 8BY, England [RJNeville@aol.com]

0.30-m $f/4.1$ reflector + CCD

USNO-SA, GSC

1991 DB, 27, 6, 26; 2000 DO₁, 13, 3, 3; [40, 2, 0*, 2000/02/21–2000/03/18]

ORBITAL ELEMENTS

Orbital elements have been computed by the following contributors:

C. M. Bardwell, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138, U.S.A. [cbardwell@cfa.harvard.edu]

A. Doppler, c/o Archenhold-Sternwarte, Alt-Treptow 1, D-12435 Berlin, Germany
[doppler@aobs.de]

A. Gnädig, c/o Archenhold-Sternwarte, Alt-Treptow 1, D-12435 Berlin, Germany
[gnadig@mind.de]

B. G. Marsden, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138, U.S.A. [bmarsden@cfa.harvard.edu]

S. Nakano, 3-19, 1 chome, Takenokuchi, Sumoto, Hyogo-ken 656, Japan
[snakano@cfa.harvard.edu]

G. V. Williams, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138, U.S.A. [gwilliams@cfa.harvard.edu]

C/1996 H1 (SOHO)

T	1996 Apr. 30.48 TT		Marsden	
q	0.0052	(2000.0)	P	Q
		ω	82.80	+0.16725
		Ω	2.99	−0.96297
e	1.0	i	144.43	+0.21145
				+0.00576

From 10 observations 1996 Apr. 29–30.

C/1997 H2 (SOHO)

T	1997 May 3.17 TT		Marsden	
q	0.1361	(2000.0)	P	Q
		ω	201.47	+0.39930
		Ω	225.82	+0.88028
e	1.0	i	18.32	+0.25627
				−0.12784

From 115 observations 1997 Apr. 29–May 5.

C/1999 H3 (LINEAR)

Epoch 1999 Aug. 10.0 TT = JDT 2451400.5

T	1999 Aug. 18.2411 TT		Nakano	
q	3.500853	(2000.0)	P	Q
z	−0.000792	ω	101.9127	−0.3789150
	± 0.000001	Ω	332.7237	−0.6112779
e	1.002773	i	115.8403	+0.6948113
				+0.0397255

From 541 observations 1999 Apr. 22–2000 Apr. 16, mean residual 0".6.

2000 APR. 18

M.P.C. 39791

C/1999 J2 (Skiff)

Epoch 2000 Apr. 6.0 TT = JDT 2451640.5

<i>T</i>	2000 Apr. 5.8935 TT		Marsden	
<i>q</i>	7.109953	(2000.0)	P	Q
<i>z</i>	−0.000149	ω 127.1317	−0.4259098	−0.4830510
	±0.000002	Ω 50.0430	−0.7116442	−0.3432934
<i>e</i>	1.001061	<i>i</i> 86.4126	+0.5587158	−0.8054882

From 428 observations 1999 May 13–2000 Apr. 14, mean residual 0^{''}.6.**C/1999 J6 (SOHO)***T* 1999 May 11.59 TT

<i>q</i>	0.0492	(2000.0)	P	Q
		ω 22.47	−0.20482	−0.87329
		Ω 81.69	+0.81635	−0.40158
<i>e</i>	1.0	<i>i</i> 26.53	+0.54002	+0.27585

From 76 observations 1999 May 10–12.

C/1999 S4 (LINEAR)

Epoch 2000 Aug. 4.0 TT = JDT 2451760.5

<i>T</i>	2000 July 26.1664 TT		Nakano	
<i>q</i>	0.764970	(2000.0)	P	Q
<i>z</i>	+0.000011	ω 151.0685	+0.3096377	−0.8052879
	±0.000004	Ω 83.1902	−0.9405938	−0.1814996
<i>e</i>	0.999992	<i>i</i> 149.3897	−0.1393115	−0.5644194

From 753 observations 1999 Sept. 27–2000 Mar. 25, mean residual 0^{''}.6.**C/1999 T2 (LINEAR)**

Epoch 2000 Dec. 2.0 TT = JDT 2451880.5

<i>T</i>	2000 Nov. 24.4686 TT		Nakano	
<i>q</i>	3.037129	(2000.0)	P	Q
<i>z</i>	−0.000684	ω 104.6737	−0.1557987	−0.9582586
	±0.000006	Ω 14.8790	−0.7263350	−0.0533393
<i>e</i>	1.002078	<i>i</i> 111.0004	+0.6694507	−0.2808834

From 215 observations 1999 July 22–2000 Mar. 24, mean residual 0^{''}.6.**C/1999 U5 (SOHO)***T* 1999 Nov. 1.40 TT

<i>q</i>	0.0072	(2000.0)	P	Q
		ω 54.48	+0.24970	−0.90265
		Ω 331.61	−0.93594	−0.13214
<i>e</i>	1.0	<i>i</i> 132.50	+0.24833	+0.40959

From 25 observations 1999 Oct. 31–Nov. 1.

C/1999 W1 (SOHO)*T* 1999 Nov. 23.64 TT

<i>q</i>	0.0088	(2000.0)	P	Q
		ω 87.47	+0.16134	−0.98057
		Ω 9.34	−0.92343	−0.18989
<i>e</i>	1.0	<i>i</i> 136.57	+0.34821	−0.04922

From 5 observations 1999 Nov. 23.

C/1999 Y1 (LINEAR)

Epoch 2001 Apr. 1.0 TT = JDT 2452000.5

<i>T</i>	2001 Mar. 24.1212 TT		Marsden	
<i>q</i>	3.091070	(2000.0)	P	Q
<i>z</i>	−0.000184	ω 184.2879	+0.9933737	+0.0346078
	±0.000013	Ω 188.8831	+0.1146411	−0.3658727
<i>e</i>	1.000570	<i>i</i> 134.7872	−0.0081348	−0.9300212

From 249 observations 1999 Dec. 20–2000 Mar. 30, mean residual 0^{''}.5.**C/1999 Y3 (SOHO)***T* 1999 Dec. 21.88 TT

<i>q</i>	0.0056	(2000.0)	P	Q
		ω 85.05	+0.17725	−0.98197
		Ω 6.49	−0.96031	−0.18718
<i>e</i>	1.0	<i>i</i> 144.43	+0.21536	−0.02648

From 14 observations 1999 Dec. 21.

C/2000 B5 (SOHO)*T* 2000 Jan. 18.87 TT

<i>q</i>	0.0054	(2000.0)	P	Q
		ω 82.17	+0.17614	−0.98393
		Ω 2.86	−0.96059	−0.17828
<i>e</i>	1.0	<i>i</i> 144.21	+0.21505	+0.00957

From 29 observations 2000 Jan. 17–18.

C/2000 B6 (SOHO)*T* 2000 Jan. 30.21 TT

<i>q</i>	0.0052	(2000.0)	P	Q
		ω 84.28	+0.08947	−0.99595
		Ω 359.24	−0.95920	−0.08390
<i>e</i>	1.0	<i>i</i> 140.89	+0.26821	+0.03217

From 21 observations 2000 Jan. 29.

C/2000 B7 (SOHO)*T* 2000 Feb. 1.49 TT

<i>q</i>	0.0050	(2000.0)	P	Q
		ω 79.36	+0.19092	−0.98159
		Ω 0.45	−0.96022	−0.18772
<i>e</i>	1.0	<i>i</i> 144.63	+0.20379	+0.03513

From 14 observations 2000 Jan. 31–Feb. 1.

P/2000 C1 (Hergenrother)

Epoch 2000 Apr. 6.0 TT = JDT 2451640.5

<i>T</i>	2000 Mar. 19.8684 TT		Nakano	
<i>q</i>	2.095559	(2000.0)	P	Q
<i>n</i>	0.1485794	ω 51.1665	−0.9959862	−0.0283718
<i>a</i>	3.530452	Ω 127.0450	−0.0018786	−0.9415983
<i>e</i>	0.406433	<i>i</i> 6.1055	+0.0894876	−0.3355410
<i>P</i>	6.63			

From 148 observations 2000 Jan. 4–Apr. 8, mean residual 0^{''}.7.

C/2000 CT₅₄ (LINEAR)

T	2001 June 19.3651 TT		Nakano	
q	3.155067	(2000.0)	P	Q
	ω	272.6509	+0.2559091	+0.9348050
	Ω	18.9785	−0.2513388	+0.3103345
e	1.0	i	49.2234	−0.9334556
From 45 observations 2000 Jan. 28–Apr. 11.			+0.1727196	

From 45 observations 2000 Jan. 28–Apr. 11.

C/2000 D3 (SOHO)

T	2000 Feb. 26.65 TT		Marsden		
q	0.0066	(2000.0)	P	Q	
	ω	68.93	+0.09290	-0.97055	
	Ω	339.90	-0.96666	-0.03443	
e	1.0	i	139.71	+0.23861	+0.23842

From 12 observations 2000 Feb. 26.

C/2000 F1 (SOHO)

T	2000 Apr. 1.52 TT		Marsden	
q	0.0060	(2000.0)	P	Q
	ω	88.92	+0.12503	-0.98923
	Ω	7.52	-0.96871	-0.13830
e	1.0	i 144.40	+0.21440	-0.04801

From 14 observations 2000 Mar. 31–Apr. 1.

P/2000 G1 (LINEAR)

<i>T</i>	2000 Mar. 9.7957 TT		Nakano		
<i>q</i>	1.002933	(2000.0)	P	Q	
<i>n</i>	0.1826764	ϖ	343.2782	−0.9941945	−0.1018843
<i>a</i>	3.076199	Ω	191.0478	+0.1071155	−0.9675932
<i>e</i>	0.673970	<i>i</i>	10.4012	−0.0101772	−0.2310474
<i>P</i>	5.40				

From 51 observations 2000 Apr. 7–16.

143P/Kowal-Mrkos

Epoch 2000 June 25.0 TT = JDT 2451720.5

<i>T</i>	2000 July 1.8035 TT		Marsden		
<i>q</i>	2.546791	(2000.0)	P	Q	
<i>n</i>	0.1101720	ω	320.5886	−0.8961757	+0.4374336
<i>a</i>	4.309452	Ω	245.5014	−0.3836766	−0.8481083
<i>e</i>	0.409022	<i>i</i>	4.6837	−0.2228485	−0.2989384
<i>P</i>	8.95				

From 47 observations 1984–2000, mean residual 0″.7.

(14309)* A908 SA = 1992 SU₁ = 1992 UW₆

Discovered 1908 Sept. 22 by J. Palisa at Vienna.

Id. J. Schubart (*MPC* 31942)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	295.38715		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23530261	ω	134.44983	+0.65186489	+0.75829949
a	2.5984731	Ω	176.21041	−0.72351998	+0.62481229
e	0.4515669	i	6.38646	−0.22713654	+0.18598787
P	4.19	H	14.0	G 0.15	U 2

Residuals in seconds of arc

1908 09 22	045	0.6+	1.1+	1992 09 25	675	0.5−	0.3+	2000 03 15	461	0.3−	0.1+
1908 09 22	045	0.7+	1.2+	1992 09 29	095	0.2−	0.3+	2000 03 15	461	0.1−	0.0
1908 09 22	045	2.5−	0.1+	1992 09 29	095	(1.6−	2.4−)	2000 04 04	699	0.3+	0.1−

1908 09 24	045	0.7−	2.0+	1992 10 31	033	1.0+	1.2−	2000 04 04	699	0.4+	0.1+
1908 09 28	045	1.5−	1.7−	1992 10 31	033	1.4+	0.1+	2000 04 04	699	0.5+	0.1−
1908 09 30	045	1.4+	0.3−	1992 11 01	033	1.8−	1.0−	2000 04 04	699	0.4+	0.2−
1908 10 02	045	0.9+	1.6−	1995 03 29	675	0.0	0.4−	2000 04 07	704	0.0	0.2−
1908 10 05	045	0.1+	1.8−	1995 03 29	675	1.1−	1.5+	2000 04 07	704	0.1+	0.3−
1908 10 06	045	1.3+	0.2−	1999 01 22	561	0.0	0.2+	2000 04 07	704	0.8−	1.4+
1989 11 07	675	0.3−	1.0+	1999 01 22	561	0.8+	0.5+	2000 04 07	704	0.2−	0.2+
1989 11 07	675	0.1−	0.3−	1999 01 22	561	0.3+	0.4+	2000 04 07	704	0.2+	0.2+
1992 09 03	095	1.7−	1.4+	2000 03 14	703	1.4−	0.3−	2000 04 08	704	0.5+	0.6−
1992 09 03	095	(0.8−	3.5+)	2000 03 14	703	0.1−	0.2−	2000 04 08	704	0.4+	0.8−
1992 09 22	675	0.9+	0.9−	2000 03 14	703	0.4+	0.3−	2000 04 08	704	0.1+	0.3−
1992 09 22	675	0.9+	0.3−	2000 03 14	703	1.6−	1.1−	2000 04 08	704	0.7+	0.0
1992 09 25	675	0.2+	0.6+	2000 03 15	461	0.4−	0.0	2000 04 08	704	0.5+	0.3−

(14310)* 1966 PP = 1992 GC₃ = 1999 XG₁₀₀

Discovered 1966 Aug. 7 at Boyden Observatory, Bloemfontein.

Id. T. Kobayashi (*MPC* 37616)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	269.32183		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.22122540	ω	164.21259	-0.81473678	$+0.57872761$		
a	2.7075681	Ω	51.20400	-0.53682595	-0.72956933		
e	0.1628310	i	2.62934	-0.21913895	-0.36442139		
P	4.46	H	13.3	G	0.15	U	2

Residuals in seconds of arc

1966 08 07	074	0.0	0.6+	1999 11 16	704	0.1+	0.4−	2000 01 04	704	0.4−	1.3−
1966 08 07	074	0.6−	0.8+	1999 11 16	704	0.9−	0.1−	2000 01 04	704	0.3−	0.8−
1966 08 08	074	1.8+	0.6−	1999 12 07	704	0.2−	0.7−	2000 01 24	849	0.2−	0.9+
1966 08 08	074	0.8+	1.4+	1999 12 07	704	0.5+	0.3−	2000 01 24	849	0.3+	0.8+
1966 08 09	074	0.5−	2.4−	1999 12 07	704	0.5−	0.5−	2000 01 24	849	1.6+	0.6+
1966 08 10	074	0.6−	2.0−	1999 12 07	704	0.6−	1.3−	2000 01 26	704	0.1+	0.4+
1966 08 12	074	0.1+	1.4−	1999 12 07	704	0.2−	1.3−	2000 01 26	704	0.4+	0.7+
1966 08 16	074	(9.4−	3.0−)	1999 12 10	704	1.2−	1.7−	2000 01 26	704	0.1+	0.2+
1992 04 04	809	0.2+	0.4−	1999 12 10	704	0.3+	0.1−	2000 01 26	704	0.9+	1.2−
1992 04 04	809	0.4−	0.8−	1999 12 10	704	0.7+	0.7−	2000 01 30	704	0.2+	0.4+
1992 04 04	809	0.9−	0.8−	1999 12 10	704	0.3+	0.3−	2000 01 30	704	0.4+	0.5+
1992 04 06	809	0.0	0.6−	2000 01 03	704	0.5−	0.3+	2000 01 30	704	0.1+	0.1−
1992 04 06	809	0.1−	0.7−	2000 01 03	704	0.7−	0.4+	2000 01 30	704	0.0	0.8+
1992 04 06	809	0.4−	0.9−	2000 01 03	704	0.5−	0.0	2000 01 30	704	0.1+	0.8+
1998 10 10	699	(2.4+	2.0−)	2000 01 03	704	0.3−	0.7−	2000 01 31	704	0.9+	0.4+
1998 10 10	699	(1.3+	2.4−)	2000 01 03	704	1.1−	0.7+	2000 01 31	704	0.2+	0.4+
1998 10 10	699	0.6+	1.0−	2000 01 04	704	0.6−	0.0	2000 01 31	704	0.5+	0.9+
1999 11 16	704	0.3+	0.3−	2000 01 04	704	0.2−	0.5−	2000 01 31	704	0.4+	0.1+
1999 11 16	704	0.3+	0.3−	2000 01 04	704	0.4−	0.6−				

(14311)* 1971 UK₁ = 1975 XK₄ = 1998 SR₁₃₈

Discovered 1971 Oct. 26 by L. Kohoutek at Bergedorf.

Id. G. V. Williams (*MPC* 32916)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	89.48806		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.25447851	ω	235.16671	+0.15106498	−0.98671629
a	2.4662398	Ω	206.33691	+0.94523809	+0.16187707
e	0.2230617	i	7.74035	+0.28931698	−0.01366701
P	3.87	H	14.9	G 0.15	U 2

Residuals in seconds of arc

1971 10 26	029	0.2+	0.4−	1998 09 27	704	0.6−	1.3+	1998 11 11	704	0.6+	0.5−
1971 10 27	029	0.6+	0.5+	1998 09 27	704	(0.4−	2.1+)	1998 11 15	566	0.0	0.1+
1971 10 30	029	0.2−	0.1−	1998 09 27	704	0.2−	1.1+	1998 11 15	566	0.4+	0.0
1971 11 10	029	1.1+	0.5−	1998 10 10	699	0.5+	1.1+	1998 11 15	566	0.2+	0.6+
1971 11 10	029	0.8−	0.6−	1998 10 10	699	0.5+	0.9+	2000 03 11	704	0.4+	0.5+
1971 11 19	029	0.2−	1.4−	1998 10 10	699	0.2+	1.1+	2000 03 11	704	0.2+	0.3+
1975 12 03	095	0.3−	0.6+	1998 10 17	699	0.4+	0.5+	2000 03 11	704	0.7+	0.5+
1994 10 07	691	0.2+	0.7−	1998 10 17	699	0.5+	0.3+	2000 03 11	704	0.1+	0.6+
1994 10 07	691	0.3+	0.0	1998 10 17	699	0.5+	0.4+	2000 03 11	704	1.0+	0.2+

2000 APR. 18

M.P.C. 39793

1994 10 07	691	0.3+	0.1-	1998 10 28	704	0.8-	0.4-	2000 03 29	691	0.5+	0.1-
1998 09 14	699	0.6+	0.6-	1998 10 28	704	0.9-	0.1-	2000 03 29	691	0.4+	0.0
1998 09 14	699	0.8-	0.3+	1998 10 28	704	1.4-	0.0	2000 03 29	691	0.4+	0.1-
1998 09 14	699	0.5+	0.7-	1998 10 28	704	1.1-	0.0	2000 04 05	704	0.2-	0.3+
1998 09 16	411	0.6-	0.2+	1998 10 28	704	(4.9-	0.2+)	2000 04 05	704	0.1-	0.5+
1998 09 16	411	0.2-	0.3+	1998 10 29	704	0.5-	1.2+	2000 04 05	704	0.9+	0.6+
1998 09 18	809	0.8+	1.9-	1998 10 29	704	0.8-	1.0+	2000 04 05	704	0.4+	0.4+
1998 09 18	809	(0.1+	3.0-)	1998 10 29	704	0.1-	1.3+	2000 04 05	704	0.1+	0.5+
1998 09 18	809	(1.1-	3.0-)	1998 10 29	704	0.3+	0.5+	2000 04 06	704	0.4-	0.9+
1998 09 20	809	(0.2-	2.6-)	1998 10 29	704	0.8-	0.2+	2000 04 06	704	0.2+	0.4+
1998 09 20	809	(1.2-	3.4-)	1998 11 10	704	1.3+	1.1+	2000 04 06	704	0.1-	0.6+
1998 09 20	809	(1.9-	3.0-)	1998 11 10	704	1.7-	0.2+	2000 04 06	704	0.1+	0.5+
1998 09 26	704	0.0	0.8+	1998 11 10	704	0.7+	0.3-	2000 04 06	704	0.4-	0.7+
1998 09 26	704	1.8-	1.4+	1998 11 10	704	0.1+	0.3-	2000 04 07	704	0.1-	0.3+
1998 09 26	704	0.9-	0.6-	1998 11 10	704	0.0	0.2-	2000 04 07	704	0.6-	1.4+
1998 09 26	704	1.2-	0.8+	1998 11 11	704	0.2+	0.1-	2000 04 07	704	0.2-	0.7+
1998 09 26	704	1.8-	0.3-	1998 11 11	704	1.2+	0.7+	2000 04 07	704	0.0	1.8+
1998 09 27	704	0.4+	0.6+	1998 11 11	704	1.5+	0.1-				
1998 09 27	704	(0.0	2.6+)	1998 11 11	704	1.2+	0.2+				

(14312)* 1976 UN₂ = 1979 SH₁₅ = 1997 HT₁₂

Discovered 1976 Oct. 26 by T. M. Smirnova at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 29909)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	206.22706	(2000.0)	P	Q	
<i>n</i>	0.31635718	ω	96.66401	+0.99503921	+0.09404658
<i>a</i>	2.1331313	Ω	257.94314	-0.09922896	+0.91493990
<i>e</i>	0.1357723	<i>i</i>	1.90082	-0.00711246	+0.39247958
<i>P</i>	3.12	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1976 10 24	381	0.4+	1.2+	1997 05 01	704	0.5+	0.2-	1998 12 17	704	0.8-	1.2-
1976 10 24	381	1.0-	0.2+	1997 05 01	704	0.9+	0.0	2000 03 14	704	0.4-	0.4-
1976 10 26	095	1.8+	1.6+	1997 05 05	704	0.8+	0.2+	2000 03 14	704	0.3+	0.0
1976 11 18	381	0.3-	0.2+	1997 05 05	704	0.5+	0.1+	2000 03 14	704	0.3+	0.4-
1976 11 18	381	0.7-	0.3-	1997 05 05	704	0.2+	0.4-	2000 03 14	704	1.1+	0.5+
1979 09 24	095	2.5-	1.9+	1997 05 05	704	0.5+	0.0	2000 03 14	704	0.0	0.4+
1996 02 15	608	0.0	0.5+	1997 05 05	704	0.2-	0.2-	2000 04 07	704	0.5-	0.1+
1996 02 15	608	1.3-	0.3+	1998 12 14	704	1.0+	0.1-	2000 04 07	704	0.6-	0.4+
1997 04 30	704	0.3+	0.1-	1998 12 14	704	0.4+	0.5+	2000 04 07	704	0.3-	0.8+
1997 04 30	704	0.2+	0.4+	1998 12 14	704	0.6+	0.9+	2000 04 07	704	0.6-	0.4+
1997 04 30	704	0.2+	0.5+	1998 12 14	704	0.5+	1.0+	2000 04 07	704	0.3-	0.6+
1997 04 30	704	0.4-	1.1+	1998 12 14	704	0.1+	1.0+	2000 04 08	704	0.3-	1.1+
1997 04 30	704	0.1+	0.9+	1998 12 17	704	0.1+	0.5-	2000 04 08	704	0.9-	0.5+
1997 05 01	704	0.5+	0.3+	1998 12 17	704	0.1-	1.1-	2000 04 08	704	0.3-	0.6+
1997 05 01	704	0.4+	0.1-	1998 12 17	704	0.1+	0.3-				
1997 05 01	704	0.5+	0.2+	1998 12 17	704	1.0-	1.3+				

(14313)* 1976 UZ₇ = 1976 SO₅ = 1999 CB₆₂

Discovered 1976 Oct. 22 by H. Kosai and K. Hurukawa at the Kiso Station of the Tokyo Astronomical Observatory.

Id. C. M. Bardwell (d, *MPC* 5579), G. V. Williams (*MPC* 33921)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Bardwell		Williams	
<i>M</i>	219.40803	(2000.0)	P	Q	
<i>n</i>	0.18997945	ω	134.30697	+0.94543262	+0.31466234
<i>a</i>	2.9968498	Ω	207.67927	-0.32581698	+0.91359306
<i>e</i>	0.1095967	<i>i</i>	10.48424	+0.00066817	+0.25755647
<i>P</i>	5.19	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1976 09 24	095	2.1-	1.2+	1999 02 19	566	0.5-	0.2+	2000 04 07	704	0.1+	0.2+
1976 10 22	381	0.1+	1.0+	1999 02 19	566	0.6-	0.1-	2000 04 07	704	0.1-	0.3-
1976 10 22	381	0.3+	0.4+	1999 02 21	699	0.3+	0.3-	2000 04 07	704	0.0	0.1+
1976 10 24	381	0.9+	0.2+	1999 02 21	699	0.1-	0.1+	2000 04 07	704	0.3+	0.1+

1976 11 18	381	0.2+	1.0+	1999 02 21	699	0.9+	0.7+	2000 04 07	704	0.5+	0.1+
1976 11 18	381	0.2-	0.1+	2000 03 04	703	1.5-	0.4-	2000 04 07	704	0.0	0.2+
1997 10 30	566	0.2-	0.2+	2000 03 04	703	0.9-	0.4+	2000 04 07	704	0.1+	0.4-
1997 10 30	566	0.1-	0.3+	2000 03 04	703	0.2-	0.4-	2000 04 08	704	0.8+	0.0
1997 10 30	566	0.2+	0.2+	2000 03 04	703	0.6-	0.1-	2000 04 08	704	0.0	0.0
1999 01 15	699	0.1+	0.1-	2000 04 05	704	0.2+	0.1+	2000 04 08	704	0.1+	0.2+
1999 01 15	699	0.2-	0.2-	2000 04 05	704	0.3+	0.1+	2000 04 08	704	0.5+	0.4+
1999 01 15	699	0.5+	0.4-	2000 04 05	704	0.0	0.4-	2000 04 08	704	0.2-	0.6+
1999 02 12	704	0.8+	0.3-	2000 04 05	704	0.4+	0.2+	2000 04 08	704	0.4+	0.6+
1999 02 12	704	1.0+	0.8+	2000 04 05	704	0.0	0.2+	2000 04 08	704	0.2+	0.2+
1999 02 12	704	0.4+	0.4+	2000 04 06	704	0.2+	0.0	2000 04 08	704	0.3+	0.2-
1999 02 12	704	0.7+	0.2+	2000 04 06	704	0.0	0.2+	2000 04 08	704	0.2-	0.4+
1999 02 12	704	0.4+	1.6+	2000 04 06	704	0.2-	0.0	2000 04 08	704	0.4+	0.2+
1999 02 16	704	0.3+	0.0	2000 04 06	704	0.0	0.0	2000 04 10	704	0.4-	0.1-
1999 02 16	704	1.3-	1.7-	2000 04 06	704	0.4-	0.1-	2000 04 10	704	0.3+	0.7+
1999 02 16	704	0.9-	1.1-	2000 04 07	704	0.2-	0.2+	2000 04 10	704	0.1+	0.0
1999 02 16	704	1.5-	0.9-	2000 04 07	704	0.2+	0.4+	2000 04 10	704	0.1+	0.3+
1999 02 19	566	0.6-	0.5+	2000 04 07	704	0.4+	0.7+	2000 04 10	704	0.4-	0.3+

(14314)* 1977 DQ₃ = 1975 VL₄ = 1986 TC₅ = 1986 UO₁

Discovered 1977 Feb. 18 by H. Kosai and K. Hurukawa at the Kiso Station of the Tokyo Astronomical Observatory.

Id. H. Kaneda (*MPC* 16021)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	102.77255	(2000.0)	P	Q	
<i>n</i>	0.17637369	ω	11.55278	+0.27922793	-0.95965000
<i>a</i>	3.1490546	Ω	62.24054	+0.87797138	+0.24114614
<i>e</i>	0.1566526	<i>i</i>	2.15149	+0.38884190	+0.14463893
<i>P</i>	5.59	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1975 11 02	095	0.2+	0.1+	1999 01 19	704	1.5-	0.6-	2000 04 03	699	0.5-	0.4+
1977 02 18	381	0.1-	0.4+	1999 02 10	704	0.2+	0.3+	2000 04 03	699	0.5-	0.5+
1977 02 18	381	1.5+	0.2+	1999 02 10	704	0.3+	0.4+	2000 04 03	699	0.0	0.1+
1977 02 19	381	1.0-	0.0	1999 02 10	704	0.5+	0.2-	2000 04 03	699	0.6-	0.4+
1977 02 19	381	(3.0-	1.2+)	1999 02 10	704	0.1-	1.2-	2000 04 05	704	0.6+	0.1-
1977 03 12	381	0.4-	0.4+	1999 02 10	704	0.7+	1.3-	2000 04 05	704	0.0	0.0
1977 03 12	381	0.4+	0.3+	2000 03 09	704	0.1-	0.3+	2000 04 05	704	0.6+	0.3+
1986 10 01	010	(0.1-	4.4-)	2000 03 09	704	0.6+	0.2-	2000 04 05	704	0.5+	0.2+
1986 10 01	010	(6.8+	4.7-)	2000 03 09	704	0.1-	0.2+	2000 04 05	704	0.7+	0.1+
1986 10 27	010	(15.6-	0.8+)	2000 03 09	704	0.4+	0.2+	2000 04 06	704	0.7+	0.8-
1986 10 27	010	(2.9-	2.5+)	2000 03 14	703	0.5-	0.9+	2000 04 06	704	0.1+	0.4-
1986 10 27	010	1.0-	1.5+	2000 03 14	703	0.3+	0.6-	2000 04 06	691	0.2-	0.0
1994 03 04	691	0.3+	0.6+	2000 03 14	703	0.9+	0.1-	2000 04 06	704	0.1+	0.4-
1994 03 04	691	0.1+	0.0	2000 03 14	703	0.7+	0.8+	2000 04 06	691	0.5-	0.1+
1994 03 04	691	0.0	0.3+	2000 03 27	691	0.4-	0.0	2000 04 06	704	0.0	0.3+
1994 03 10	691	0.3-	0.1-	2000 03 27	691	0.3-	0.0	2000 04 06	704	0.1+	0.1-
1994 03 10	691	0.3+	0.1-	2000 03 27	691	0.3-	0.0	2000 04 06	691	0.2-	0.0
1998 12 12	691	0.0	0.1-	2000 03 30	120	0.9-	0.0	2000 04 07	704	0.2-	0.1+
1998 12 12	691	0.0	0.2-	2000 03 30	120	0.3+	0.9-	2000 04 07	704	0.7+	0.2+
1998 12 12	691	0.3-	1.0+	2000 03 30	120	1.7-	0.9-	2000 04 07	704	0.7+	0.7+
1999 01 19	704	0.6-	1.5+	2000 04 02	699	0.3-	0.3+	2000 04 07	704	0.1-	0.2-
1999 01 19	704	0.6+	0.6-	2000 04 02	699	0.0	0.3-	2000 04 07	704	0.3+	0.3-
1999 01 19	704	0.5+	0.6+	2000 04 02	699	0.4-	0.3+				
1999 01 19	704	0.4-	1.1-	2000 04 02	699	0.0	0.2-				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	299.84562		(2000.0)	P		Q	
<i>n</i>	0.17600827	ω	106.82916	+0.26624703	+0.96385908		
<i>a</i>	3.1534116	Ω	178.51192	-0.96306424	+0.26640903		
<i>e</i>	0.1135764	<i>i</i>	21.20143	-0.04024668	+0.00138148		
<i>P</i>	5.60	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 18	801	(3.3- 1.8+)	1994 04 03	675	0.5- 1.6-	2000 03 15	699	0.8+ 0.9+
1977 02 19	801	0.3+ 1.4-	1999 02 12	704	0.1- 0.6-	2000 03 15	699	0.4+ 0.8+
1977 03 12	381	0.8- 0.9+	1999 02 12	704	0.6- 0.2+	2000 03 15	699	0.4+ 0.0
1977 03 14	381	1.2+ 0.3+	1999 02 12	704	0.4- 0.4-	2000 03 15	699	0.4+ 1.0+
1977 03 14	381	0.4+ 1.3-	1999 02 12	704	0.7- 0.9-	2000 04 02	699	0.3+ 0.3+
1977 03 15	381	0.1- 1.0-	1999 02 12	704	0.7+ 1.4+	2000 04 02	699	0.3+ 0.4+
1977 03 15	381	0.4- 0.5-	1999 02 16	704	0.0 0.4-	2000 04 02	699	0.1- 0.4-
1990 08 17	511	(3.7+ 3.8+)	1999 02 16	704	0.5- 0.8-	2000 04 02	699	0.7+ 1.0+
1990 08 17	511	(3.8+ 3.3+)	1999 02 16	704	0.2- 0.4-	2000 04 04	704	1.3+ 0.4+
1990 08 21	511	1.2+ 0.4+	1999 02 16	704	0.1+ 0.8-	2000 04 04	704	0.2- 0.3+
1990 08 21	511	(2.8+ 2.0+)	1999 02 16	704	0.2- 1.8-	2000 04 04	704	0.4+ 0.3+
1990 08 28	511	0.2- 0.7-	1999 02 23	699	0.6+ 1.6+	2000 04 04	704	0.0 0.0
1990 09 16	675	0.4+ 1.2-	1999 02 23	699	0.9+ 0.6+	2000 04 14	704	0.7- 0.4-
1990 09 19	675	1.5+ 0.6-	1999 02 23	699	1.1+ 1.2+	2000 04 14	704	0.4- 0.6-
1990 09 19	675	0.4- 1.4-	2000 03 08	704	0.3- 0.7-	2000 04 14	704	0.6- 0.3-
1990 09 20	675	1.3- 1.4-	2000 03 08	704	0.2+ 0.6-	2000 04 14	704	0.4- 0.3-
1990 09 20	675	1.0- 0.7-	2000 03 08	704	0.1+ 0.4-	2000 04 14	704	1.0- 0.1-
1994 04 03	675	1.6- 1.1-	2000 03 08	704	0.3- 0.3-			

(14316)* 1977 ES₇ = 1991 SO₄ = 2000 AD₁₃₈

Discovered 1977 Mar. 12 by H. Kosai and K. Hurukawa at the Kiso Station of the Tokyo Astronomical Observatory.

Id. M. E. Sansaturio (*MPC* 39139)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	29.24885		(2000.0)	P		Q	
<i>n</i>	0.17194775	ω	141.80384	-0.75207403	-0.65892045		
<i>a</i>	3.2028631	Ω	356.86239	+0.52098915	-0.58093886		
<i>e</i>	0.0752595	<i>i</i>	15.29628	+0.40367680	-0.47784294		
<i>P</i>	5.73	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 03 12	381	2.1- 0.8-	2000 02 11	704	0.6+ 0.2+	2000 04 04	704	0.6+ 0.3-
1977 03 12	381	1.7- 1.9-	2000 02 11	704	0.3+ 0.4-	2000 04 04	704	0.1- 0.2+
1977 03 14	381	1.3- 1.7-	2000 02 11	704	0.3+ 0.9-	2000 04 04	704	0.3+ 0.0
1977 03 14	381	0.7- 1.8-	2000 02 11	704	0.6+ 0.8-	2000 04 04	704	0.0 0.2+
1977 03 15	381	1.0- 2.1-	2000 02 11	704	0.2- 0.4+	2000 04 05	704	0.1+ 0.2-
1977 03 15	381	(2.8- 1.3-)	2000 02 27	703	0.1+ 0.2+	2000 04 05	704	0.1- 0.2+
1991 09 16	675	0.0 0.5+	2000 02 27	703	0.3- 0.4+	2000 04 05	704	0.4- 0.0
1991 09 16	675	0.7- 0.2+	2000 02 27	703	0.3+ 0.0	2000 04 05	704	0.1- 0.2+
1998 11 16	704	0.2- 0.3+	2000 02 27	703	0.0 0.2+	2000 04 05	704	0.4- 0.4+
1998 11 16	704	0.4+ 0.4-	2000 02 29	704	0.3+ 0.3+	2000 04 06	704	1.0+ 0.1+
1998 11 16	704	(2.3- 1.4+)	2000 02 29	704	0.1- 1.2+	2000 04 06	704	0.5+ 0.1+
1998 11 16	704	(3.8- 1.7+)	2000 02 29	704	1.2+ 0.1-	2000 04 06	704	0.3+ 0.0
1998 12 12	704	0.1- 0.5+	2000 02 29	704	(0.1- 2.3+)	2000 04 06	704	0.4+ 0.4+
1998 12 12	704	0.3+ 0.4-	2000 03 08	704	0.0 0.1+	2000 04 06	704	0.3+ 0.6+
1998 12 12	704	0.9+ 0.3-	2000 03 08	704	0.7+ 0.7+	2000 04 06	704	0.6+ 0.3+
1998 12 12	704	0.5- 0.1+	2000 03 08	704	0.6- 0.1-	2000 04 06	704	0.3+ 0.4+
1998 12 12	704	0.7- 0.5+	2000 03 08	704	0.1+ 0.7+	2000 04 06	704	0.0 0.7+
1999 11 17	703	(6.1+ 1.9+)	2000 03 08	704	0.6- 0.4+	2000 04 06	704	0.5+ 0.3+
1999 11 17	703	0.3+ 0.1-	2000 03 11	699	0.1+ 0.2-	2000 04 06	704	0.1- 0.2+
1999 11 17	703	0.1- 1.0+	2000 03 11	699	0.3+ 0.0	2000 04 07	691	0.5- 0.6-
1999 11 17	703	0.8- 0.5+	2000 03 11	699	0.4+ 0.0	2000 04 07	704	0.1+ 0.1+
2000 01 04	704	0.1+ 0.3+	2000 03 11	704	0.2+ 0.0	2000 04 07	691	0.6- 0.8-
2000 01 04	704	0.4- 0.3-	2000 03 11	699	0.2+ 0.2-	2000 04 07	704	0.0 0.4+
2000 01 04	704	0.8+ 0.8+	2000 03 11	704	0.3+ 0.1-	2000 04 07	704	0.3+ 0.2+
2000 01 04	704	1.0- 1.1-	2000 03 11	704	0.0 0.0	2000 04 07	704	0.4+ 0.5+
2000 01 04	704	0.2- 0.4-	2000 03 11	704	0.1+ 0.0	2000 04 07	691	0.5- 0.7-

2000 01 08	704	0.9- 1.0-	2000 03 11	704	0.1+ 0.1-	2000 04 07	704	0.5+ 0.5+
2000 01 08	704	0.7- 0.4+	2000 03 14	703	0.3- 0.1-	2000 04 08	704	0.3+ 0.4+
2000 01 08	704	0.2- 0.5+	2000 03 14	703	0.1+ 0.2-	2000 04 08	704	0.0 0.2+
2000 01 08	704	0.6+ 0.2-	2000 03 14	703	0.1- 0.2+	2000 04 08	704	0.0 0.5+
2000 01 13	699	0.2- 0.3-	2000 03 14	703	0.1+ 0.3-	2000 04 08	704	0.0 0.3+
2000 01 13	699	0.3+ 0.6+	2000 04 02	699	0.4- 0.4-	2000 04 08	704	0.0 0.0
2000 01 13	699	1.0+ 0.2+	2000 04 02	699	0.1- 0.6-	2000 04 08	704	0.2- 0.3+
2000 02 06	704	1.0+ 0.4+	2000 04 02	691	0.1- 0.6-	2000 04 08	704	0.1+ 0.6+
2000 02 06	704	0.6+ 0.4+	2000 04 02	699	0.3- 0.1-	2000 04 08	704	0.1- 0.7+
2000 02 06	704	0.5+ 0.2+	2000 04 02	691	0.2- 0.6-	2000 04 10	704	0.1- 0.6+
2000 02 06	704	0.0 0.5+	2000 04 02	699	0.7- 0.0	2000 04 10	704	0.5+ 0.6+
2000 02 06	704	0.8+ 1.0+	2000 04 02	691	0.1- 0.7-	2000 04 10	704	0.1+ 0.5+

(14317)* 1978 PC₃ = 1978 RA₃ = 1978 SD₂ = 1978 TX = 1998 XG₅₁

Discovered 1978 Aug. 8 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. B. G. Marsden (d, *MPC* 7139), L. D. Schmadel (d, *MPC* 7447),G. V. Williams (*MPC* 33472)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.82018		(2000.0)	P		Q	
<i>n</i>	0.25728547	ω	2.47932	+0.86119342	+0.50475681		
<i>a</i>	2.4482694	Ω	326.98754	-0.46820124	+0.74206729		
<i>e</i>	0.1701799	<i>i</i>	6.29304	-0.19782186	+0.44108582		
<i>P</i>	3.83	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 08 08	095	0.7- 1.1+	1998 12 14	704	(0.9+ 2.3-)	2000 03 03	703	0.3+ 0.4+
1978 09 03	095	(4.5- 3.5+)	1998 12 14	704	0.8+ 1.2-	2000 03 03	703	0.9+ 0.4-
1978 09 06	809	1.3+ 0.1-	1998 12 17	704	0.2+ 0.6+	2000 03 03	703	0.1- 0.5-
1978 09 10	809	0.5- 1.6+	1998 12 17	704	0.9+ 0.3+	2000 03 27	699	0.2+ 0.3+
1978 09 10	809	(2.7+ 3.9+)	1998 12 17	704	(4.3+ 1.5-)	2000 03 27	699	0.1- 0.0
1978 09 26	095	0.7- 1.0-	1998 12 17	704	0.9- 0.4-	2000 03 27	699	0.1- 0.6+
1978 10 02	095	0.1- 0.5-	1999 01 19	704	1.0+ 0.5-	2000 03 27	699	0.5- 0.6+
1997 08 03	566	0.1- 0.5+	1999 01 19	704	0.9- 1.5+	2000 04 07	704	0.3+ 0.3-
1997 08 03	566	0.1- 0.0	1999 01 19	704	0.5+ 0.0	2000 04 07	704	0.0 0.3+
1997 08 03	566	0.3- 0.9+	1999 01 19	704	(2.9+ 1.2+)	2000 04 07	704	0.0 0.6+
1998 12 14	704	0.3+ 1.2+	1999 01 19	704	1.4- 2.0+	2000 04 07	704	0.2+ 0.2+
1998 12 14	704	0.1- 0.6-	2000 03 03	703	0.1+ 0.4-	2000 04 07	704	0.2- 0.3+

(14318)* 1978 SD₃ = 1991 QL = 1991 RY₁₂

Discovered 1978 Sept. 26 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 20009)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	251.64075		(2000.0)	P		Q	
<i>n</i>	0.30366671	ω	319.14443	+0.57930370	+0.81489647		
<i>a</i>	2.1921550	Ω	346.22322	-0.72588855	+0.50530079		
<i>e</i>	0.2116926	<i>i</i>	4.51200	-0.37080053	+0.28392755		
<i>P</i>	3.25	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 09 26	095	(2.8- 1.3+)	2000 03 08	704	0.2+ 1.1+	2000 04 06	704	0.6- 0.2-
1978 10 02	095	0.8- 0.9+	2000 03 08	704	0.3+ 0.7+	2000 04 06	704	0.3- 0.3-
1978 10 05	095	0.2- 0.2-	2000 03 08	704	0.0 0.0	2000 04 06	704	0.7- 0.2+
1978 10 08	095	0.2- 1.6+	2000 03 08	704	0.2- 1.2+	2000 04 06	704	0.4- 0.3-
1991 08 16	033	0.8+ 0.5+	2000 03 08	704	1.9+ 1.5+	2000 04 06	704	1.2- 0.3-
1991 09 10	675	1.0+ 0.2-	2000 03 10	704	(2.2+ 0.2+)	2000 04 06	704	0.2- 0.2+
1991 09 10	675	1.1- 0.0	2000 03 10	704	0.8- 0.0	2000 04 06	704	0.0 0.2+
1991 09 11	095	1.0+ 1.4-	2000 03 10	704	0.1- 0.4-	2000 04 07	704	0.4- 0.1-
1991 09 11	095	1.2- 2.0-	2000 03 10	704	0.3- 0.8-	2000 04 07	704	0.5- 0.1+
1991 09 13	675	0.5+ 0.6+	2000 03 11	704	0.3+ 0.3+	2000 04 07	704	0.4- 0.3-
1991 09 13	675	0.4- 0.2+	2000 03 11	704	0.2+ 0.4-	2000 04 07	704	0.3- 0.0
1991 09 15	675	0.2+ 0.5-	2000 03 11	704	0.2+ 0.4-	2000 04 07	704	0.4- 0.1+
1991 09 15	675	(0.8- 3.0-)	2000 03 11	704	0.4+ 0.2-	2000 04 08	704	0.4+ 0.5-

2000 APR. 18

M.P.C. 39795

1991 09 15	675	0.9+	1.1-	2000 03 11	704	0.6+	0.7-	2000 04 08	704	0.3-	0.3-
1991 09 15	675	0.7+	0.6-	2000 04 04	688	0.4-	0.1-	2000 04 08	704	0.3+	0.1-
1998 12 14	704	0.2-	0.2+	2000 04 04	704	0.2+	0.4-	2000 04 08	704	0.3-	0.1+
1998 12 14	704	0.3+	2.1-	2000 04 04	688	0.1+	0.1-	2000 04 08	704	1.0+	0.4-
1998 12 14	704	0.2+	0.2+	2000 04 04	704	0.4+	0.1-	2000 04 08	704	0.1+	0.1-
1998 12 14	704	0.3-	0.4+	2000 04 04	704	0.1+	0.2-	2000 04 08	704	0.7-	0.3-
1998 12 14	704	0.1+	0.4+	2000 04 04	704	0.2-	0.2-	2000 04 08	704	0.1+	0.3+
1998 12 16	704	1.2+	1.7-	2000 04 04	704	0.2-	0.5-	2000 04 08	704	0.1-	0.2+
1998 12 16	704	0.3+	0.4-	2000 04 05	704	0.2-	0.0	2000 04 08	704	0.2+	0.4-
1998 12 16	704	0.2+	0.5-	2000 04 05	704	0.2-	0.2-	2000 04 10	704	0.2-	0.6+
1998 12 16	704	0.3+	0.6+	2000 04 05	704	0.2-	0.3-	2000 04 10	704	0.4-	1.5-
1998 12 17	704	0.2-	0.1-	2000 04 05	704	0.3-	0.0	2000 04 10	704	0.1+	0.1+
1998 12 17	704	0.5-	1.1+	2000 04 05	704	0.1-	0.4-	2000 04 13	704	(2.5-	0.0)
1998 12 17	704	0.5-	0.5-	2000 04 06	704	0.1-	0.1-	2000 04 13	704	0.7+	0.5-
1998 12 17	704	0.3-	1.0+	2000 04 06	704	0.1-	0.0	2000 04 13	704	0.3+	0.3+
1998 12 17	704	1.0-	0.3+	2000 04 06	704	0.4-	0.3-	2000 04 13	704	1.7+	1.3+

(14319)* 1978 US₅ = 1978 RJ₆ = 1991 GU₂

Discovered 1978 Oct. 27 by C. M. Olmstead at Palomar.

Id. G. V. Williams (*MPC* 20807)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	249.95948		(2000.0)	P		Q	
<i>n</i>	0.21094653	ω	287.68562	+0.57301368		+0.81465573	
<i>a</i>	2.7948240	Ω	18.15237	-0.60010871		+0.49136969	
<i>e</i>	0.2901442	<i>i</i>	16.67479	-0.55814412		+0.30804525	
<i>P</i>	4.67	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1950 08 14	675	0.3+	1.6-	1991 04 15	675	0.9+	0.9-	2000 03 12	704	1.0+	0.0
1950 08 14	675	0.0	0.5-	1991 04 15	675	1.5-	0.3-	2000 03 12	704	0.1+	0.1-
1978 09 13	095	1.8+	0.1+	1992 09 30	691	1.1-	0.3+	2000 03 12	704	0.1+	0.5+
1978 10 27	675	0.3+	0.6-	1992 09 30	691	1.2-	0.3+	2000 03 12	704	0.6+	0.3+
1978 10 28	675	0.1+	0.1+	1992 09 30	691	0.8-	0.3+	2000 03 12	704	0.3+	0.3+
1978 10 29	675	0.6+	0.2+	1997 11 27	426	0.1+	0.7-	2000 04 03	704	1.0-	0.6+
1978 11 28	675	0.2+	0.5-	1997 11 27	426	0.0	0.9-	2000 04 03	704	0.2+	0.9-
1978 11 29	675	0.4+	0.1+	1997 12 02	426	0.3+	1.8+	2000 04 03	704	0.9+	0.6-
1991 04 08	809	0.4-	1.7-	1997 12 02	426	1.4+	0.9-	2000 04 08	704	0.5-	0.7+
1991 04 08	809	0.3-	1.2-	2000 03 05	704	0.1-	0.5+	2000 04 08	704	0.4-	0.2+
1991 04 08	809	(2.4-	2.7-)	2000 03 05	704	0.0	0.4+	2000 04 08	704	0.1+	0.6+
1991 04 10	809	(0.5+	3.2-)	2000 03 05	704	0.3-	0.7+	2000 04 08	704	0.6-	0.5-
1991 04 10	809	(0.8-	3.1-)	2000 03 05	704	0.4-	1.0+				
1991 04 10	809	(0.6-	2.3-)	2000 03 05	704	0.7-	0.6-				

(14320)* 1978 UV₇ = 1991 KX₁ = 1992 SS₂₅

Discovered 1978 Oct. 27 by C. M. Olmstead at Palomar.

Id. E. Bowell (*MPC* 22947), A. Doppler (*MPC* 34480), A. Milani (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	237.21099		(2000.0)	P		Q	
<i>n</i>	0.20939231	ω	129.48356	+0.86042882		+0.50878139	
<i>a</i>	2.8086367	Ω	199.98359	-0.48928487		+0.80935435	
<i>e</i>	0.1028889	<i>i</i>	4.75849	-0.14234660		+0.29340591	
<i>P</i>	4.71	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 10 27	675	0.1+	1.0+	1997 10 31	704	1.3+	1.3+	2000 04 05	704	0.2+	0.6+
1978 10 28	675	0.3+	0.6+	1997 11 03	704	1.0-	1.2+	2000 04 05	704	0.3+	0.4+
1978 10 29	675	0.2+	1.4+	1997 11 03	704	0.6-	0.8+	2000 04 05	704	0.3+	1.1+
1991 05 17	809	0.2-	0.9+	1997 11 03	704	0.5-	1.2+	2000 04 06	704	0.4-	0.2+
1991 05 17	809	1.7-	0.2-	1997 11 03	704	0.5-	0.1-	2000 04 06	704	0.1+	0.2-
1991 05 17	809	0.4+	0.3+	1997 11 03	704	1.8-	0.6-	2000 04 06	704	0.1-	0.2+
1992 09 30	675	1.3-	0.6+	1997 11 06	704	(3.3-	0.2-)	2000 04 06	704	0.0	0.5-
1992 09 30	675	(3.0-	1.2-)	1997 11 06	704	(3.5-	0.8+)	2000 04 06	704	(3.8+	1.5+)
1992 10 03	675	0.8-	0.8-	1997 11 06	704	(3.2-	0.1+)	2000 04 06	704	0.2-	0.1-
1992 10 03	675	0.3-	0.1-	1997 11 06	704	(2.6-	0.1-)	2000 04 06	704	0.2-	0.3+
1997 10 29	704	0.7-	0.2+	1997 11 06	704	(3.4-	0.3+)	2000 04 07	699	0.6-	0.6+

1997 10 29	704	0.9-	0.1-	1999 02 12	704	0.2-	0.4-	2000 04 07	699	0.4+	0.9+
1997 10 29	704	0.8-	0.8+	1999 02 12	704	1.4-	0.0	2000 04 07	704	0.2+	0.6+
1997 10 29	704	1.1-	0.4-	1999 02 12	704	1.9-	0.1-	2000 04 07	699	0.0	0.0
1997 10 29	704	1.2-	0.3+	1999 02 13	704	0.8-	0.2-	2000 04 07	704	0.1-	0.1+
1997 10 30	704	0.7+	0.2+	1999 02 13	704	1.4+	0.6-	2000 04 07	699	0.5-	0.6+
1997 10 30	704	1.4+	0.7-	1999 02 13	704	0.4-	0.4+	2000 04 07	704	0.1+	1.1-
1997 10 30	704	1.0+	0.3+	1999 02 13	704	0.5+	0.4+	2000 04 07	704	0.1-	0.0
1997 10 30	704	1.7+	0.3-	2000 03 14	704	0.0	0.4+	2000 04 07	704	0.0	0.7+
1997 10 30	704	0.5+	0.3+	2000 03 14	704	0.7+	0.0	2000 04 08	704	0.3+	0.3+
1997 10 30	704	1.2+	0.8-	2000 03 14	704	0.4-	1.0+	2000 04 08	704	1.3+	1.4+
1997 10 30	704	0.6+	0.4+	2000 03 14	704	0.5+	0.3-	2000 04 08	704	0.6+	0.2+
1997 10 30	704	1.0+	1.0-	2000 03 14	704	0.8+	0.7-	2000 04 08	704	1.4+	0.5-
1997 10 30	704	1.5-	0.2+	2000 03 14	704	0.3+	0.3+	2000 04 08	704	0.6+	0.4+
1997 10 31	704	0.3+	0.3+	2000 03 14	704	0.8-	0.6+	2000 04 11	608	0.4+	0.0
1997 10 31	704	0.7+	0.7+	2000 03 14	704	0.4-	0.2+	2000 04 11	608	0.3+	0.2+
1997 10 31	704	0.1-	0.9+	2000 04 05	704	0.1+	0.1+	2000 04 11	608	0.4+	0.1+
1997 10 31	704	1.1+	1.2+	2000 04 05	704	0.1+	0.2+				

(14321)* 1978 VT₉ = 1991 RM₂₀ = 1998 UZ₃₁

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Id. A. Doppler (*MPC* 38430), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	200.03442		(2000.0)	P		Q	
<i>n</i>	0.29598905	ω	288.70567	+0.96059134		+0.27240568	
<i>a</i>	2.2299012	Ω	55.52233	-0.22299178		+0.87400468	
<i>e</i>	0.1996456	<i>i</i>	3.84733	-0.16594863		+0.40238161	
<i>P</i>	3.33	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 04 24	675	1.7-	1.0+	1998 10 26	327	0.3+	0.5-	2000 03 12	704	0.1+	0.3+
1977 04 25	675	1.2+	1.3+	1998 10 26	327	0.3+	0.6-	2000 03 12	704	0.9-	0.4-
1977 04 25	675	1.5-	0.3-	1998 10 26	327	0.0	0.0	2000 03 12	704	0.6+	0.2-
1978 11 05	675	0.3+	0.4+	1998 11 01	327	0.6-	0.4-	2000 04 07	699	0.1+	0.8-
1978 11 06	675	0.3+	0.8+	1998 11 01	327	0.3-	0.4+	2000 04 07	699	0.3+	0.1+
1978 11 07	675	0.8-	0.1+	1998 11 01	327	0.8+	0.0	2000 04 07	699	0.5-	0.8+
1978 11 08	675	0.3-	0.3-	1998 12 17	704	1.0-	0.9-	2000 04 07	699	0.8-	0.6-
1978 11 29	675	2.3+	0.8+	1998 12 17	704	0.5-	0.3+	2000 04 08	704	0.1+	0.5+
1978 11 30	675	0.1-	0.4-	1998 12 17	704	0.8-	1.2-	2000 04 08	704	0.1-	0.3-
1991 09 14	675	0.2+	0.3-	1998 12 17	704	0.3-	0.4-	2000 04 08	704	0.3-	0.3-
1991 09 14	675	0.1+	0.3-	1998 12 17	704	0.5+	1.5+	2000 04 10	704	0.3+	0.5+
1991 09 16	675	0.3-	0.6+	1998 12 17	327	0.2-	0.8+	2000 04 10	704	0.4+	0.0
1997 04 02	704	1.8+	0.1-	1998 12 17	327	0.1-	0.2+	2000 04 10	704	0.9+	0.8-
1997 04 02	704	0.6+	0.6-	1998 12 17	327	0.0	0.1+				

(14322)* 1978 YM = 1974 OW₁ = 1981 TQ₂ = 1991 RY₁₇

Discovered 1978 Dec. 22 by N. S. Chernykh at the Crimean Astrophysical

Observatory.

Id. K. Ichikawa (*MPC* 20010)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	167.95254		(2000.0)	P		Q	
<i>n</i>	0.29511371	ω	19.74749	+0.93609782		-0.35173392	
<i>a</i>	2.2343084	Ω	0.85392	+0.30163861		+0.79978037	
<i>e</i>	0.1365019	<i>i</i>	7.82713	+0.18092822		+0.48645103	
<i>P</i>	3.34	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1974 07 26	808	0.4-	0.2+	1998 11 15	758	0.1-	0.2+

1991 09 15	675	0.3+	0.3-	1998 11 17	758	1.1-	1.2+	2000 03 30	704	0.2-	0.9+
1991 09 16	675	0.6-	1.1+	1998 11 17	758	0.8-	0.9+	2000 03 30	704	0.5+	1.2+
1991 09 16	675	0.0	0.9+	1998 11 17	758	0.2-	0.6+	2000 03 30	704	0.8+	1.3+
1991 09 17	675	0.7+	0.3-	1998 11 18	758	0.6-	0.3+	2000 04 07	704	0.2+	0.1+
1991 09 17	675	0.5-	0.2-	1998 11 18	758	0.4-	0.4+	2000 04 07	704	0.2-	0.1+
1991 09 17	675	0.0	0.5-	1998 11 18	758	0.3-	0.3+	2000 04 07	704	0.1-	0.2-
1991 09 17	675	0.3+	0.2-	1998 11 19	758	0.4-	0.0	2000 04 07	704	0.2-	0.3-
1998 08 31	704	0.7+	0.9-	1998 11 19	758	0.5-	0.1-	2000 04 07	704	0.1-	0.1+
1998 08 31	704	1.5+	1.6+	1998 11 19	758	0.5-	0.0	2000 04 08	704	0.3+	0.3-
1998 08 31	704	1.3+	0.8+	1998 12 14	704	0.8-	0.3+	2000 04 08	704	1.1+	0.1+
1998 08 31	704	0.8+	0.4-	1998 12 14	704	0.7+	0.9-	2000 04 08	704	0.7+	0.2-
1998 08 31	704	0.1-	0.4+	1998 12 14	704	0.5+	0.9-	2000 04 08	704	0.5+	0.6-
1998 09 29	704	1.7-	0.9-	1998 12 14	704	0.5-	1.3-	2000 04 08	704	0.2+	0.0
1998 09 29	704	1.5+	1.0-	1998 12 14	704	0.1-	0.8+	2000 04 10	704	0.3+	0.3-
1998 09 29	704	0.9+	1.0-	1999 02 06	704	1.0+	1.0+	2000 04 10	704	0.2-	0.0
1998 09 29	704	(0.2+	2.3-)	1999 02 06	704	1.7+	1.6+	2000 04 10	704	0.5+	0.0
1998 09 29	704	(2.1+	1.3-)	1999 02 06	704	(1.0+	2.2+)	2000 04 10	704	0.2-	0.6+
1998 11 15	758	0.0	0.4+	1999 02 06	704	0.2+	1.0+	2000 04 10	704	0.1+	0.6+
1998 11 15	758	1.0+	1.6+	1999 02 06	704	(1.0-	3.3+)				

(14323)* 1979 MV₁ = 1997 NL₁₁

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.

Id. G. V. Williams (*MPC* 30649)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		301.18259		(2000.0)		P		Q	
<i>n</i>		0.27606399	ω	135.82681		-0.00644180		+0.99635074	
<i>a</i>		2.3359464	Ω	133.60370		-0.94695918		+0.02126795	
<i>e</i>		0.0801669	<i>i</i>	6.74984		-0.32128931		-0.08266124	
<i>P</i>		3.57	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 06 23	413	1.1+	0.2+	1997 07 10	327	0.3+	0.4+	2000 04 07	704	0.4-	0.6-
1979 06 24	413	1.7-	0.0	1997 07 10	327	0.2+	0.1-	2000 04 07	704	0.4+	0.2-
1979 06 25	413	0.1-	0.4+	1997 07 10	327	0.4+	0.3+	2000 04 07	704	0.1+	0.2-
1979 06 29	413	2.3-	1.1-	1997 07 10	327	0.1-	0.6+	2000 04 07	704	0.8+	0.2-
1979 07 24	675	0.7-	0.4-	1998 12 22	704	0.2+	1.2-	2000 04 12	704	0.1-	0.6-
1979 07 24	413	1.8+	0.8-	1998 12 22	704	0.4+	0.7-	2000 04 12	704	0.3-	0.2+
1979 07 25	675	0.7-	0.2-	1998 12 22	704	0.2-	0.5-	2000 04 12	704	0.1-	0.2+
1979 07 27	675	2.3+	0.2-	1998 12 22	704	0.2-	0.2-	2000 04 12	704	0.6-	0.4-
1996 05 08	327	0.3+	0.4+	1998 12 22	704	0.9-	1.5+	2000 04 12	704	0.5-	0.4-
1996 05 08	327	1.1+	0.1+	2000 03 03	703	0.5+	0.6+	2000 04 13	704	0.9-	0.3+
1996 05 08	327	0.6+	0.1-	2000 03 03	703	0.7-	0.0	2000 04 13	704	0.2+	0.5-
1997 07 09	327	0.3-	0.4+	2000 03 03	703	(2.0-	0.0)	2000 04 13	704	0.2+	0.4-
1997 07 09	327	0.0	0.4+	2000 03 03	703	0.1-	0.6+	2000 04 13	704	0.0	0.5+
1997 07 09	327	0.3-	0.2+	2000 04 07	704	0.4+	0.7+	2000 04 13	704	0.1-	0.3+

(14324)* 1979 MK₆ = 1980 WG₅

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.

Id. S. J. Bus (*MPC* 18804)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		157.32634		(2000.0)		P		Q	
<i>n</i>		0.22270828	ω	226.72095		+0.86941373		-0.49389084	
<i>a</i>		2.6955360	Ω	162.86100		+0.46582923		+0.81003415	
<i>e</i>		0.0881757	<i>i</i>	2.69222		+0.16469029		+0.31609572	
<i>P</i>		4.43	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 06 23	413	0.1-	0.0	1999 01 20	704	0.6-	1.3-	2000 04 02	699	0.3-	0.2+
1979 06 24	413	0.4+	0.8-	2000 03 04	703	0.3+	1.1+	2000 04 05	704	0.1-	0.2-
1979 06 25	413	0.7+	0.6+	2000 03 04	703	0.9+	0.4+	2000 04 05	704	0.1-	0.0
1979 06 29	413	2.1+	0.6+	2000 03 04	703	0.1+	0.8+	2000 04 05	704	0.4+	0.2-
1979 07 26	675	1.6-	2.1+	2000 03 04	703	0.2+	0.3-	2000 04 05	704	0.1-	0.5-
1979 07 27	675	2.1-	0.6+	2000 03 09	704	0.1+	0.5-	2000 04 05	704	0.8+	0.6-
1979 08 23	675	0.3+	0.6-	2000 03 09	704	0.1-	0.5+	2000 04 06	699	0.1-	0.3+
1980 11 29	675	0.2+	1.0+	2000 03 09	704	0.1+	0.2+	2000 04 06	704	0.3-	0.4-

1980 12 01	675	0.5-	0.6+	2000 03 09	704	1.4+	0.6+	2000 04 06	699	0.7-	0.3-
1998 12 15	704	1.2+	0.6+	2000 03 09	704	0.2-	0.9+	2000 04 06	704	0.1+	0.1+
1998 12 15	704	1.2+	1.2+	2000 03 14	703	0.2-	0.5+	2000 04 06	704	0.0	0.1-
1998 12 15	704	0.5-	0.4+	2000 03 14	703	0.6+	1.5+	2000 04 06	699	0.3+	0.1-
1998 12 15	704	0.3-	0.5-	2000 03 14	703	0.4-	0.1-	2000 04 06	704	0.6-	0.4-
1998 12 15	704	(0.6+	3.2+)	2000 03 14	703	0.0	0.0	2000 04 06	699	0.2-	0.2+
1999 01 20	704	0.5+	0.3-	2000 04 02	699	0.4-	0.8-	2000 04 06	704	0.1-	0.3-
1999 01 20	704	0.5-	0.3-	2000 04 02	699	0.1-	0.1-				
1999 01 20	704	0.8-	0.8+	2000 04 02	699	0.5-	0.2-				

(14325)* 1979 MM₆ = 1991 TZ₆

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.

Id. G. V. Williams (*MPC* 26394)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		338.14134		(2000.0)		P		Q	
<i>n</i>		0.17844498	ω	340.29199		-0.83028793		+0.55413611	
<i>a</i>		3.1246388	Ω	233.50284		-0.50088002		-0.78881956	
<i>e</i>		0.1067709	<i>i</i>	4.25358		-0.24442006		-0.26588885	
<i>P</i>		5.52	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 06 23	413	(3.7-	0.0)	1997 11 22	691	0.4+	0.2-	2000 04 02	699	0.3+	0.3+
1979 06 24	413	2.4+	0.0	1997 11 22	691	0.5+	0.2+	2000 04 02	699	0.2+	0.6+
1979 06 25	413	0.2-	0.1+	1997 12 04	691	0.3+	0.3+	2000 04 02	699	0.3+	0.9+
1979 06 29	413	1.8+	0.3-	1997 12 04	691	0.2+	0.2+	2000 04 06	699	0.2+	0.1-
1979 07 26	675	2.2-	0.2+	1997 12 04	691	0.5-	0.1-	2000 04 06	699	0.9+	0.0
1979 07 27	675	1.6-	0.2+	1999 01 20	595	0.3+	0.8-	2000 04 06	699	0.3+	0.2+
1991 10 02	033	0.6-	0.3+	1999 01 20	595	0.3+	0.8+	2000 04 06	699	0.4+	0.2+
1991 10 03	033	0.2+	1.3+	1999 01 20	595	0.4+	0.8+	2000 04 07	704	0.0	0.1+
1991 10 04	033	0.8-	0.4+	2000 03 04	703	1.2-	0.3-	2000 04 07	704	0.1+	0.4+
1991 10 09	033	0.1+	0.4+	2000 03 04	703	0.8-	0.1-	2000 04 07	704	0.5-	0.5-
1991 10 09	033	0.8+	0.2-	2000 03 04	703	0.3-	0.4-	2000 04 07	704	0.5-	0.9+
1992 11 24	691	0.5-	0.2-	2000 03 04	703	0.8-	1.0-	2000 04 07	704	0.7+	0.1+
1992 11 24	691	0.2-	0.7-	2000 03 27	699	0.5-	0.1+	2000 04 08	704	0.5-	0.8-
1997 10 01	910	0.7+	1.1+	2000 03 27	699	0.1-	0.6-	2000 04 08	704	0.5+	0.5+
1997 10 01	910	0.7+	1.1+	2000 03 27	699	0.5-	0.1-	2000 04 08	704	0.2-	0.8+
1997 10 01	910	0.8+	0.9+	2000 03 27	699	0.2-	0.5+	2000 04 08	704	0.6-	0.1+
1997 11 06	704	1.5-	1.5-	2000 03 30	704	1.1+	0.6+	2000 04 10	704	0.5-	0.3-
1997 11 06	704	1.0-	0.9-	2000 03 30	704	0.3-	0.7+	2000 04 10	704	0.4+	0.1-
1997 11 06	704	1.2-	0.2+	2000 03 30	704	0.1+	0.3-	2000 04 10	704	1.9+	0.8-
1997 11 06	704	(3.6-	1.0+)	2000 03 30	704	0.1+	0.1+	2000 04 10	704	0.2+	0.1+
1997 11 22	691	0.3+	0.2+	2000 04 02	699	0.4+	0.7+				

(14326)* 1980 BA = 1997 MV₁₁

Discovered 1980 Jan. 21 at the Agassiz Station of the Harvard College

Observatory.

Id. G. V. Williams (*MPC* 30649)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		90.14619		(2000.0)		P		Q	
<i>n</i>		0.25341676	ω	333.00317		+0.13382938		-0.98456451	
<i>a</i>		2.4731236	Ω	109.12852		+0.92942532		+0.08520218	
<i>e</i>		0.1676405	<i>i</i>	6.85664		+0.34388701		+0.15288336	
<i>P</i>		3.89	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1980 01 21	801	(3.1- 1.7+)	1998 10 16	704	0.0	0.7+	2000 03 08	704	0.4+	0.4-
1980 01 22	801	0.9- 1.3+	1998 10 16	704	1.7+	1.9+	2000 03 08	704	1.3+	0.7+
1980 01 23	095	(4.5- 3.4-)	1998 10 22	744	0.0	0.0	2000 03 08	704	1.2+	0.7+
1980 01 25	801	0.5- 0.9-	1998 10 22	744	0.0	0.0	2000 03 08	704	0.1-	0.5+
1980 01 26	801	1.1+ 0.1+	1998 10 22	744	0.0	0.0	2000 04 04	699	0.0	0.2+
1980 02 09	801	0.0 1.8+	1998 10 23	744	0.1-	0.4+	2000 04 04	699	0.0	0.7+
1980 02 11	801	0.5+ 0.6-	1998 10 23	744	0.1+	0.4+	2000 04 04	704	0.8+	1.9+
1980 03 10	801	0.1- 0.4-	1998 10 23	744	0.2-	0.0	2000 04 04	704	0.7+	0.3+
1997 06 29	704	0.1+ 0.6+	1998 11 13	704	0.2-	0.2+	2000 04 04	699	0.2+	0.6+
1997 06 29	704	0.1- 0.9+	1998 11 13	704	0.1+	0.1-	2000 04 04	704	0.0	0.4+

2000 APR. 18

M.P.C. 39797

1997 06 29	704	0.8+	0.5+	1998 11 13	704	0.1-	0.8-	2000 04 04	699	0.1-	0.4+
1997 06 29	704	(2.4-	1.8+)	1998 11 13	704	0.6-	0.6+	2000 04 04	704	0.4+	0.5+
1997 07 02	704	0.0	1.4+	1998 11 13	704	1.0-	0.5-	2000 04 04	704	0.8+	0.7-
1997 07 02	704	0.2-	1.4+	1998 11 16	566	0.8-	0.8-	2000 04 07	699	0.2-	0.2+
1997 07 02	704	0.3-	0.8+	1998 11 16	566	0.3-	0.9-	2000 04 07	699	0.0	0.1+
1997 07 02	704	0.4-	0.7-	1998 11 16	566	0.7-	0.7-	2000 04 07	699	0.3-	0.3+
1998 08 28	704	0.8+	0.4+	1998 11 19	699	0.2+	0.5+	2000 04 07	699	0.2-	0.2+
1998 08 28	704	0.2-	0.7+	1998 11 19	699	0.1+	0.9+	2000 04 08	704	0.7-	0.4-
1998 08 28	704	1.5-	1.2+	1998 11 19	699	0.5-	1.0+	2000 04 08	704	0.9-	1.4+
1998 08 28	704	1.7+	0.1-	1999 01 11	704	0.1-	0.5-	2000 04 08	704	0.0	0.3+
1998 08 31	704	1.1-	1.0-	1999 01 11	704	(2.5-	2.2+)	2000 04 08	704	0.0	0.1+
1998 08 31	704	1.6-	0.5-	1999 01 11	704	1.1-	0.9+	2000 04 08	704	0.1-	1.0+
1998 08 31	704	(2.1+	0.1+)	1999 01 11	704	0.6+	1.5+	2000 04 13	704	(0.2-	2.3-)
1998 08 31	704	0.7-	0.7+	1999 02 04	704	0.8+	1.1+	2000 04 13	704	0.6-	1.1-
1998 08 31	704	0.7+	1.2+	1999 02 04	704	1.0+	0.9-	2000 04 13	704	0.9-	0.4+
1998 10 16	704	0.2+	0.5+	1999 02 04	704	0.1+	0.8+	2000 04 13	704	1.4+	0.1+
1998 10 16	704	0.3+	0.7+	2000 03 08	704	0.2+	0.7-	2000 04 13	704	0.3+	0.5-

(14327)* 1980 FE₂ = 1976 NC = 1987 SJ₂₅ = 2000 AY₁₆₀

Discovered 1980 Mar. 16 by C.-I. Lagerkvist at the European Southern Observatory.

Id. A. Doppler (*MPC* 39140), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		209.86803		(2000.0)		P		Q	
<i>n</i>		0.19027115	ω	302.60960		+0.27795284		+0.95962236	
<i>a</i>		2.9937860	Ω	343.36374		-0.82300246		+0.21470055	
<i>e</i>		0.1678938	<i>i</i>	8.68084		-0.49538790		+0.18173773	
<i>P</i>		5.18	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1976 07 02	809	(3.6-	1.1-)	1997 09 02	566	0.1+	0.3+	2000 01 03	704	0.2-	0.6+
1976 07 02	809	1.9-	1.9-	1998 11 16	704	0.3+	0.4-	2000 01 03	704	0.7+	0.2+
1980 03 16	809	0.0	0.0	1998 11 16	704	1.7+	1.5+	2000 01 04	704	0.4-	0.1-
1980 03 16	809	0.2+	0.5-	1998 11 16	704	(0.6+	3.1+)	2000 01 04	704	0.2+	0.2+
1980 03 16	809	0.3+	0.6-	1998 11 16	704	0.2+	1.0+	2000 01 04	704	(1.4-	2.5+)
1980 03 16	809	0.1+	0.8-	1998 11 16	704	0.9-	1.0-	2000 01 04	704	0.8-	0.6+
1980 03 17	809	0.1-	0.5-	1998 12 14	704	0.1+	0.3-	2000 01 04	704	0.6-	0.6+
1980 03 17	809	0.1+	1.1-	1998 12 14	704	0.8+	1.0-	2000 02 11	704	0.2+	0.3+
1980 03 17	809	0.7+	0.5-	1998 12 14	704	0.8+	1.7-	2000 02 11	704	0.6+	0.2+
1980 03 17	809	0.6+	0.5-	1998 12 14	704	0.4+	1.0-	2000 02 11	704	0.3+	0.4-
1980 03 23	809	0.2+	0.2-	1999 12 15	703	0.7-	1.0+	2000 02 11	704	0.0	0.5+
1980 03 23	808	0.3+	0.5-	1999 12 15	703	0.1+	0.2+	2000 03 28	049	0.3+	0.1-
1980 03 23	808	1.0-	0.6+	1999 12 15	703	0.8-	0.3+	2000 03 28	049	0.9-	0.0
1987 09 23	095	0.7+	0.8+	1999 12 15	703	0.4-	0.4+	2000 03 28	049	0.8-	0.6+
1997 09 02	566	0.2+	0.1+	2000 01 03	704	0.9-	0.4+				
1997 09 02	566	0.3+	0.1+	2000 01 03	704	0.2-	0.2+				

(14328)* 1980 VH = 1936 FK = 1985 YD = 1999 XQ₇₆

Discovered 1980 Nov. 8 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. G. V. Williams (*MPC* 37619)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		71.64117		(2000.0)		P		Q	
<i>n</i>		0.21246769	ω	102.47220		+0.98926395		-0.05570021	
<i>a</i>		2.7814683	Ω	260.83597		+0.00113364		+0.92741299	
<i>e</i>		0.2473570	<i>i</i>	7.86592		+0.14613537		+0.36986841	
<i>P</i>		4.64	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc (or two decimals in units of degrees)

1936 03 21	012	(0.03+	0.00-)	1998 06 24	704	(7.5-	1.6-)	1999 12 07	704	0.2+	0.1+
1980 11 08	688	1.7+	1.4+	1999 10 13	704	0.1-	0.6+	1999 12 08	704	0.1+	0.2+
1980 11 08	688	0.2-	0.1-	1999 10 13	704	0.4-	0.2-	1999 12 08	704	0.2+	0.2+
1980 11 11	688	0.2-	0.4+	1999 10 13	704	0.2+	0.2-	1999 12 08	704	0.0	0.1-
1980 11 11	688	1.8-	1.9-	1999 10 13	704	0.0	0.0	1999 12 08	704	0.1-	0.4+

1980 11 29	688	0.6+	0.4-	1999 10 13	704	0.2+	0.1+	1999 12 08	704	0.2+	0.1+
1980 11 29	688	0.8-	0.6+	1999 11 03	704	0.1+	1.1+	2000 01 05	704	0.6-	1.2+
1980 12 04	688	1.4+	1.6-	1999 11 03	704	1.0+	1.1+	2000 01 05	704	0.2+	0.5-
1985 12 16	801	0.3-	0.1+	1999 11 03	704	0.3+	0.2+	2000 01 05	704	0.1+	0.4-
1998 05 29	704	0.5+	0.2+	1999 11 03	704	0.2-	0.1-	2000 01 05	704	0.2+	0.1-
1998 05 29	704	1.0+	0.1-	1999 11 16	704	0.3+	0.4+	2000 01 05	704	0.3-	0.3-
1998 05 29	704	1.4-	0.7+	1999 11 16	704	0.3+	0.4+	2000 01 06	704	0.2-	1.0-
1998 05 29	704	(2.4-	0.1-)	1999 11 16	704	0.1+	0.0	2000 01 06	704	0.1-	0.3-
1998 05 29	704	(2.2-	2.2-)	1999 11 16	704	0.0	0.1+	2000 01 06	704	0.5-	0.2-
1998 06 24	704	1.3-	0.4+	1999 11 16	704	0.0	0.2+	2000 01 06	704	0.6-	0.7-
1998 06 24	704	0.5+	0.2+	1999 12 07	704	0.0	0.6+	2000 01 06	704	0.2-	0.5-
1998 06 24	704	0.7+	0.5-	1999 12 07	704	0.2+	0.3+				
1998 06 24	704	0.4-	1.1+	1999 12 07	704	0.3+	0.2+				

(14329)* 1981 EY₁₀ = 1990 SV₁₀

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Id. S. Nakano (*MPC* 17628)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		165.57097		(2000.0)		P		Q	
<i>n</i>		0.26201098	ω	170.71928		+0.93470269		-0.35440009	
<i>a</i>		2.4187430	Ω	210.08156		+0.32254200		+0.87772188	
<i>e</i>		0.1073250	<i>i</i>	3.09307		+0.14932361		+0.32249788	
<i>P</i>		3.76	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1981 02 12	413	0.3+	0.3+	1996 03 20	566	0.5+	0.3-	2000 04 03	699	0.6+	0.2-
1981 02 13	413	0.1+	0.4-	1996 03 20	566	0.2+	0.2-	2000 04 03	699	0.3+	0.2-
1981 03 01	413	1.2-	0.9-	1997 06 28	704	0.1-	0.6-	2000 04 03	699	0.1-	0.5-
1981 03 07	413	1.0-	1.0-	1997 06 28	704	0.2+	0.5-	2000 04 03	699	0.3+	0.4-
1981 03 11	413	0.3-	0.4+	1997 06 28	704	0.0	0.5-	2000 04 05	704	0.0	0.0
1981 03 11	413	1.7+	1.6-	1997 06 29	704	0.7+	0.8-	2000 04 05	704	0.2-	0.1+
1981 03 15	413	0.8-	0.9-	1997 06 29	704	0.4+	1.0-	2000 04 05	704	0.3-	0.1-
1981 03 15	413	0.3-	0.9-	1997 06 29	704	0.4+	1.2-	2000 04 05	704	0.3-	0.5+
1981 04 05	413	0.6-	1.6-	1997 06 29	704	0.3+	1.5-	2000 04 05	704	0.0	0.2+
1981 04 05	413	0.2-	0.5+	1997 06 29	704	0.2+	1.2-	2000 04 06	699	1.0-	0.3+
1981 04 06	413	0.5+	0.9-	1997 07 02	704	1.1+	0.1+	2000 04 06	704	0.0	0.3-
1981 04 06	413	(2.7+	2.5-)	1997 07 02	704	0.2-	0.9-	2000 04 06	704	0.2+	0.4+
1981 04 26	413	(3.2+	2.1-)	1997 07 02	704	0.4+	0.0	2000 04 06	699	0.3-	0.4-
1981 05 02	413	0.4-	1.3-	1997 07 02	704	0.4-	0.4+	2000 04 06	704	0.1-	0.2+
1990 09 16	675	0.3+	0.2+	1997 07 02	704	0.5+	0.1-	2000 04 06	699	0.6-	0.4+
1990 09 16	675	0.9+	0.0	1998 12 15	704	0.4-	0.5-	2000 04 06	704	0.1+	0.6+
1990 09 18	675	(0.2+	2.2-)	1998 12 15	704	1.2+	0.1+	2000 04 06	699	0.6-	0.2+
1990 09 18	675	(1.7+	2.4-)	1998 12 15	704	0.3-	0.5-	2000 04 06	704	0.2+	0.8+
1990 09 19	675	0.4+	0.1-	1998 12 15	704	0.2+	0.7-	2000 04 07	704	0.5+	0.1-
1990 09 19	675	0.5-	0.1+	1998 12 15	704	0.5-	0.7-	2000 04 07	704	1.0-	0.4-
1990 10 22	675	1.6-	1.2-	1998 12 16	704	0.6+	0.0	2000 04 07	704	0.4+	0.0
1990 10 22	675	1.3-	1.4-	1998 12 16	704	0.4-	0.7+	2000 04 07	704	0.4-	0.5+
1994 10 06	596	(1.3-	2.2+)	1998 12 16	704	0.9-	1.2+	2000 04 07	704	0.2+	0.3+
1994 10 06	596	0.1-	1.8+	1998 12 16	704	0.5+	0.2-	2000 04 08	704	0.4+	1.0+
1994 10 13	691	0.2+	0.8+	1998 12 16	704	0.6-	0.5-	2000 04 08	704	1.7+	0.8+
1994 10 13	691	0.2+	1.0+	1998 12 22	704	0.2+	0.3-	2000 04 08	704	0.9+	1.0+
1994 10 13	691	0.4+	1.0+	1998 12 22	704	0.0	0.9-	2000 04 08	704	0.8+	0.6+
1994 11 04	675	0.4+	0.2+	1998 12 22	704	0.9+	1.3-	2000 04 08	704	0.2+	1.2+
1994 11 04	675	1.0-	0.6-	1998 12 22	704	0.5+	0.5-	2000 04 10	704	0.0	0.1+
1994 11 06	675	0.3-	1.2-	1998 12 22	704	0.3+	0.1-	2000 04 10	704	0.7-	0.7+
1994 11 06	675	0.4+	0.6-	2000 03 04	703	0.4+	0.3+	2000 04 10	704	0.2-	0.9+
1994 11 28	675	0.9+	0.5-	2000 03 04	703	0.6-	0.8-	2000 04 10	704	0.3+	0.9+
1994 11 28	675	0.0	0.8-	2000 03 04	703	1.1+	0.0	2000 04 10	704	0.4-	0.3+
1994 11 30	675	0.5-	0.1-	2000 03 04	703	0.3+	0.6-	2000 04 13	691	0.9-	0.6-
1994 11 30	675	0.4-	0.2-	2000 03 14	703	0.0	0.4-	2000 04 13	691	0.7-	0.7-
1994 12 03	675	1.2+	0.3-	2000 03 14	703	0.1-	0.2+	2000 04 13	691	0.6-	0.7-
1994 12 03	675	0.0	1.6-	2000 03 14	703	1.8-	0.2+				
1996 03 20	566	0.5+	0.4-	2000 03 14	703	0.4-	0.1-				

(14330)* 1981 EG₂₁ = 1990 SW₁₃

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Id. G. V. Williams (*MPC* 17818)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		131.87552		(2000.0)		P		Q	
<i>n</i>		0.15777770	ω	247.85972		+0.66007255		-0.75041186	
<i>a</i>		3.3918683	Ω	160.70757		+0.72190619		+0.62098433	
<i>e</i>		0.0898029	<i>i</i>	5.98381		+0.20773945		+0.22640780	
<i>P</i>		6.25	<i>H</i>	13.4		<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc									
1981 02 02	413	0.6+	1.2-	1999 01 10	120	0.4+	0.1-	2000 03 27	699 0.0 0.2-
1981 02 13	413	0.4-	1.3-	1999 01 14	120	0.5+	0.5+	2000 03 27	699 0.7+ 0.5+
1981 03 02	413	(5.5- 2.1+)		1999 01 15	120	0.3+	0.1-	2000 03 29	704 0.9+ 0.3+
1981 03 02	413	0.7+	1.5-	1999 01 15	120	1.2+	0.6-	2000 03 29	704 0.8+ 1.0+
1981 03 07	413	2.0-	0.6-	1999 01 16	120	0.7+	0.5-	2000 03 29	704 0.2+ 0.4+
1981 03 07	413	0.8+	1.8-	1999 01 17	120	1.5-	0.2-	2000 03 29	704 0.4- 0.5+
1981 03 11	413	1.4-	0.9+	1999 01 17	120	1.1+	0.5+	2000 04 06	699 0.3- 0.6+
1981 03 16	413	(4.2+ 2.9-)		1999 01 19	120	0.6+	0.0	2000 04 06	699 0.3- 0.3+
1981 03 29	413	0.4-	1.4-	1999 01 19	120	1.0+	0.2-	2000 04 06	699 0.1+ 0.1+
1981 03 29	413	1.0-	0.1-	1999 01 19	120	1.8+	0.4-	2000 04 06	699 1.0+ 0.1+
1981 04 11	413	1.9-	0.6+	1999 01 21	120	0.7+	0.9+	2000 04 07	699 0.2+ 0.2-
1981 04 26	413	1.0+	1.6-	1999 01 21	120	0.3+	0.5+	2000 04 07	699 0.4+ 0.4+
1981 05 02	413	0.4+	0.8-	1999 01 21	120	0.8+	0.8+	2000 04 07	699 0.5+ 0.1-
1990 09 23	809	0.7+	0.8-	1999 01 22	120	0.6-	0.7+	2000 04 07	699 0.0 0.1-
1990 09 23	809	1.1+	0.8-	1999 01 22	120	0.4+	0.5+	2000 04 08	704 0.5+ 0.4+
1990 09 23	809	1.5+	0.8-	1999 01 22	120	2.0-	0.2+	2000 04 08	704 0.1+ 0.2-
1990 09 24	809	0.3-	0.2+	1999 01 25	120	1.5-	0.6-	2000 04 08	704 0.3+ 0.9-
1990 09 24	809	0.4-	0.1-	1999 01 25	120	0.2-	0.1+	2000 04 08	704 0.4+ 0.3+
1990 09 24	809	0.3-	0.2-	2000 03 01	703	0.9-	0.1+	2000 04 08	704 0.3+ 0.3-
1996 07 21	809	(5.1+ 1.3+)		2000 03 01	703	0.4-	0.4-	2000 04 10	704 0.6- 0.1+
1996 07 21	809	(3.4+ 0.8+)		2000 03 01	703	1.5-	0.6-	2000 04 10	704 0.6- 0.2+
1996 07 21	809	(3.9+ 1.1+)		2000 03 01	703	0.5-	0.4-	2000 04 10	704 0.0 0.2+
1997 10 30	566	1.5-	0.3-	2000 03 27	699	0.4-	0.2+	2000 04 10	704 0.9+ 0.5+
1997 10 30	566	1.2-	0.2-	2000 03 27	699	0.4-	0.4-	2000 04 10	704 0.5+ 0.2+
1997 10 30	566	0.8+	0.9-	2000 03 27	699	1.4-	1.9+		
1999 01 09	120	1.4-	0.5-	2000 03 27	699	0.1-	0.4-		

(14331)* 1981 EC₂₆

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		351.29534		(2000.0)		P		Q	
<i>n</i>		0.26112171	ω	185.20417		-0.95210746		+0.30572631	
<i>a</i>		2.4242313	Ω	12.60083		-0.27973682		-0.86465108	
<i>e</i>		0.1392442	<i>i</i>	1.25444		-0.12344510		-0.39863508	
<i>P</i>		3.77	<i>H</i>	16.0		<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc									
1977 02 11	675	0.5-	0.6+	1981 04 26	413	0.9+	1.5-	2000 04 05	704 0.5+ 0.4+
1977 02 12	675	0.8-	0.5+	1981 05 01	413	0.5-	1.2-	2000 04 05	704 0.1- 1.1+
1977 02 14	675	1.7+	0.5+	1992 01 31	691	0.1+	0.0	2000 04 06	704 0.2+ 0.3+
1981 02 09	413	0.4+	0.9-	1992 01 31	691	0.1-	0.3+	2000 04 06	704 0.1+ 0.6-
1981 02 13	413	0.2-	1.3+	1992 01 31	691	0.0	0.1+	2000 04 06	704 0.3- 0.2+
1981 03 02	413	0.2-	0.4-	1994 10 27	691	0.3+	0.6-	2000 04 06	704 0.0 0.3+
1981 03 06	413	(0.8+ 2.8-)		1994 10 27	691	0.5+	1.4-	2000 04 06	704 0.0 1.4-
1981 03 06	413	(3.1- 0.5-)		1994 10 27	691	0.5+	1.2-	2000 04 07	704 0.3+ 0.1-
1981 03 11	413	(2.9- 0.8+)		1996 03 17	691	0.3+	0.2+	2000 04 07	704 0.3+ 0.1+
1981 03 11	413	0.6-	0.4-	1996 03 17	691	0.0	0.1-	2000 04 07	704 0.7- 1.1-
1981 03 15	413	(3.1- 0.1-)		2000 03 14	703	1.3+	0.7-	2000 04 07	704 0.2+ 0.3-
1981 03 15	413	0.8-	0.0	2000 03 14	703	0.5-	0.8+	2000 04 07	704 0.0 0.1-
1981 04 05	413	1.1-	1.2-	2000 03 14	703	0.4-	0.2+	2000 04 08	704 0.1+ 0.0
1981 04 06	413	(4.5- 1.7+)		2000 03 14	703	0.2-	0.1-	2000 04 08	704 0.2- 0.4-

1981 04 06	413	0.2+	0.6-	2000 04 05	704	0.4-	0.2+	2000 04 08	704	1.1-	0.1+
1981 04 10	413	(4.0+ 0.3-)		2000 04 05	704	0.1-	0.2+	2000 04 08	704	0.0	0.4+
1981 04 10	413	0.1+	0.1+	2000 04 05	704	0.1+	0.9+	2000 04 08	704	0.8+	0.5+

(14332)* 1981 EX₂₆ = 1985 GH₁ = 1993 QJ₂

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Id. B. G. Marsden (*MPC* 22588), A. Doppler (*MPC* 34482), A. Milani (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		299.56377		(2000.0)		P		Q	
<i>n</i>		0.26118388	ω	78.97196		+0.14274426		+0.98961079	
<i>a</i>		2.4238466	Ω	199.26011		-0.92719159		+0.12763301	
<i>e</i>		0.2502024	<i>i</i>	2.98251		-0.34632331		+0.06618384	
<i>P</i>		3.77	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc									
1981 02 12	413	0.5-	0.3+	1993 08 16	010	0.4+	0.2-	2000 02 02	704 1.3+ 0.7+
1981 02 12	413	0.7-	0.2-	1993 08 16	010	0.2-	0.0	2000 04 05	704 0.1+ 0.0
1981 02 13	413	0.7+	0.2+	1993 08 16	010	0.3-	0.4-	2000 04 05	704 0.2- 0.5+
1981 03 02	413	0.4+	0.4+	1993 08 17	010	1.0-	0.4+	2000 04 05	704 0.0 0.0
1981 03 06	413	1.7-	0.7+	1993 09 18	010	0.6+	1.4+	2000 04 05	704 0.0 0.1+
1981 03 06	413	1.2-	1.0+	1993 09 18	010	0.3+	1.1+	2000 04 05	704 0.2+ 0.1+
1981 03 11	413	0.5-	0.2-	1993 09 18	010	0.1-	0.4+	2000 04 06	704 0.0 0.1+
1981 03 11	413	0.7-	0.2-	1993 09 20	675	0.0	0.4-	2000 04 06	704 0.1+ 0.4+
1981 03 15	413	0.6-	0.0	1993 09 20	675	0.8-	0.9-	2000 04 06	704 0.0 0.4+
1981 03 15	413	2.1+	0.8-	1997 09 30	684	0.1-	0.7+	2000 04 06	704 0.3+ 0.2+
1981 04 05	413	(3.3+ 2.5-)		1997 09 30	684	0.0	0.8+	2000 04 06	704 0.2+ 0.6+
1981 04 05	413	(3.1+ 1.2-)		1997 09 30	684	0.2+	0.7+	2000 04 07	704 0.0 0.4+
1981 04 06	413	1.3-	0.8+	1997 10 01	684	0.2+	0.8-	2000 04 07	704 0.0 0.3+
1981 04 06	413	1.2+	0.9-	1997 10 01	684	0.0	0.7-	2000 04 07	704 0.1+ 0.7+
1981 04 07	413	0.1-	0.1+	1997 10 01	684	0.1+	0.8-	2000 04 07	704 0.1- 0.7+
1981 04 10	413	0.1+	0.9+	1997 10 30	704	0.6+	1.0+	2000 04 07	704 0.4- 0.3-
1981 04 10	413	1.5+	1.1-	1997 10 30	704	1.2-	1.7+	2000 04 10	704 0.1+ 0.3+
1981 04 26	413	(2.4+ 2.7-)		1997 10 30	704	0.2+	1.5+	2000 04 10	704 0.2- 0.1-
1981 05 01	413	0.3+	0.9-	1997 10 30	704	1.0-	0.5+	2000 04 10	704 0.1+ 0.3+
1981 05 03	413	(0.1- 3.5-)		1997 10 30	704	(1.7- 2.4+)		2000 04 10	704 0.2+ 0.6+
1985 04 15	688	0.7-	0.6-	2000 02 02	704	0.6+	1.0+		
1985 04 15	688	1.4+	0.4-	2000 02 02	704	0.3+	0.3+		

(14333)* 1981 ED₃₄ = 1983 VN₄

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Id. B. G. Marsden (*MPC* 10622)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	107.53256		(2000.0) <th></th> <th>$\mathbf{P}$</th> <th></th> <th>$\mathbf{Q}$</th>		$\mathbf{P}$		$\mathbf{Q}$				
n	0.25825527	ω	94.32182		+0.76480859		-0.64352474				
a	2.4421364	Ω	305.73662		+0.57506826		+0.70339359				
e	0.1977220	i	2.16895		+0.29045537		+0.30184990				
P	3.82	H	15.0	G	0.15	U	2				
Residuals in seconds of arc											
1979 10 18	675	2.3+	0.5+	1998 09 18	703	0.1-	0.0	1998 10 14	699	0.8+	1.0-
1979 10 18	675	(6.7+	2.2+)	1998 09 18	703	0.1+	0.1-	1998 10 14	699	0.3+	0.8-
1981 02 12	413	0.4+	1.6-	1998 09 18	703	0.5+	0.3-	1998 10 15	704	0.8-	0.5-
1981 02 13	413	(3.4-	0.7-)	1998 09 18	704	0.2+	0.1-	1998 10 15	704	0.4-	1.1+
1981 03 01	413	1.3-	0.4-	1998 09 18	704	0.7+	1.1-	1998 10 15	704	0.2+	0.6+
1981 03 01	413	0.4+	0.3-	1998 09 18	704	0.7+	0.4-	1998 10 15	704	1.2-	0.2+
1981 03 11	413	0.2-	0.5+	1998 09 18	704	0.8+	0.3+	1998 10 15	704	1.4-	0.0
1981 03 11	413	1.6-	1.2+	1998 09 18	704	1.1+	0.3-	2000 02 29	704	0.1-	0.0
1981 03 11	413	1.4-	0.2-	1998 09 19	703	0.4+	0.1+	2000 02 29	704	0.6+	0.8+
1981 03 15	413	(9.1-	3.8+)	1998 09 19	703	0.6+	0.1+	2000 02 29	704	1.2+	0.3+
1981 05 02	413	(3.2-	2.1+)	1998 09 19	703	0.8-	0.8-	2000 03 03	704	0.1+	0.0
1983 11 08	381	1.2-	1.0-	1998 09 19	703	0.5-	0.9-	2000 03 03	704	1.0+	0.4-

2000 APR. 18

M.P.C. 39799

1998 09 14	704	0.9+	0.1-	1998 09 26	704	1.0-	1.7+	2000 03 03	704	0.9+	0.7-
1998 09 14	704	0.2+	0.7-	1998 09 26	704	0.6+	1.1+	2000 03 03	704	0.6+	0.1+
1998 09 14	704	1.1+	0.0	1998 09 26	704	1.2-	0.5+	2000 03 03	704	1.1+	0.1-
1998 09 14	704	0.6-	0.2-	1998 09 26	704	1.3-	1.2+	2000 03 11	704	0.2+	0.1-
1998 09 14	704	0.7+	0.2-	1998 09 27	704	0.6-	0.2+	2000 03 11	704	0.8-	0.2+
1998 09 14	704	0.0+	0.3+	1998 09 27	704	0.4+	0.8+	2000 03 11	704	0.4-	0.3+
1998 09 14	704	1.0+	0.4+	1998 09 27	704	0.8-	0.1+	2000 03 11	704	0.2-	0.1+
1998 09 14	704	0.4-	0.9+	1998 09 27	704	0.2+	0.1+	2000 03 11	704	0.0	0.4+
1998 09 14	704	0.1+	0.2+	1998 09 27	704	0.1+	0.1+	2000 04 05	704	0.2+	0.6+
1998 09 14	704	0.1+	0.3+	1998 10 14	704	1.0-	0.3-	2000 04 05	704	0.4+	0.1-
1998 09 16	699	0.5-	0.1+	1998 10 14	704	1.4-	0.0	2000 04 05	704	0.2+	1.2+
1998 09 16	699	0.0	0.0	1998 10 14	704	0.7-	0.4+	2000 04 05	704	0.2-	0.3+
1998 09 16	699	0.1-	0.6+	1998 10 14	704	0.5+	0.2-	2000 04 05	704	0.5+	0.3+
1998 09 18	703	0.3-	0.1-	1998 10 14	699	0.2+	0.5-				

(14334)* 1981 EE₃₈

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.53194		(2000.0)	P	Q
<i>n</i>	0.20843762	ω	109.68989	+0.43144346	-0.90175122
<i>a</i>	2.8172063	Ω	314.72139	+0.81311260	+0.40141420
<i>e</i>	0.1209084	<i>i</i>	2.13590	+0.39077415	+0.16034767
<i>P</i>	4.73	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1978 07 09	675	0.4-	0.2-	1981 05 03	413	0.8-	0.1-	2000 03 10	704	0.6+	0.2+
1978 07 09	675	0.4-	0.2+	1981 12 09	369	0.7-	1.1-	2000 03 10	704	0.8+	0.4+
1979 11 22	675	0.5-	0.4+	1981 12 09	369	(0.5-	2.5+)	2000 03 10	704	1.2+	0.3+
1979 11 24	675	0.6-	0.4+	1981 12 14	704	0.1-	1.0+	2000 03 10	704	1.8+	0.4+
1979 11 25	675	1.4+	1.1+	1981 12 14	704	0.8+	0.4-	2000 03 10	704	1.2+	0.2-
1979 11 26	675	1.3+	0.9+	1981 12 14	704	1.0+	0.3+	2000 03 11	704	0.1+	0.9-
1979 11 27	675	0.8+	0.8+	1981 12 14	704	1.2-	0.1-	2000 03 11	704	1.5-	0.5-
1981 02 12	413	0.3-	0.8-	1981 12 14	704	0.5-	1.1-	2000 03 11	704	0.8-	0.3-
1981 02 13	413	0.5+	0.4-	1981 12 16	704	0.4-	0.5+	2000 03 11	704	0.9-	1.5-
1981 03 01	413	(3.3-	0.6+)	1981 12 16	704	0.7-	0.6-	2000 04 05	704	0.5+	0.2+
1981 03 01	413	1.2-	1.1+	1981 12 16	704	0.3-	0.6+	2000 04 05	704	0.8+	0.2-
1981 03 02	413	2.4-	0.0	1981 12 16	704	1.1-	0.8-	2000 04 05	704	0.2-	0.8+
1981 03 02	413	(5.0+	2.5-)	1981 12 16	704	0.7-	0.5+	2000 04 05	704	0.3+	0.3+
1981 03 07	413	1.9-	0.1+	1981 12 17	704	0.2+	0.3-	2000 04 06	704	0.1-	0.1-
1981 03 11	413	1.3+	0.0	1981 12 17	704	0.0	0.0	2000 04 06	704	1.0+	0.6+
1981 03 11	413	(2.5+	0.7-)	1981 12 17	704	(2.3+	3.3-)	2000 04 06	704	0.2-	0.8+
1981 05 02	413	0.7+	0.6+	1981 12 17	704	0.9+	0.9-	2000 04 06	704	0.5+	0.3+

(14335)* 1981 RR₃ = 1971 SZ₁ = 1971 TE₁

Discovered 1981 Sept. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (*MPC* 10023), L. D. Schmadel (*ibid.*), H. Oishi (*JAM* 1926)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Bardwell

<i>M</i>	195.31221		(2000.0)	P	Q
<i>n</i>	0.29500057	ω	181.36921	+0.98941796	+0.14405660
<i>a</i>	2.2348797	Ω	170.29652	-0.13212513	+0.94386007
<i>e</i>	0.2099980	<i>i</i>	5.89614	-0.05995865	+0.29728077
<i>P</i>	3.34	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1971 09 23	095	(4.0-	3.8-)	2000 02 29	120	0.4-	0.4-	2000 03 12	691	0.3-	0.8-
1971 10 11	095	(3.6-	4.6-)	2000 02 29	120	0.0	0.1+	2000 03 14	691	0.4-	1.0-
1981 09 03	095	0.7+	0.1+	2000 03 01	703	0.6+	0.4+	2000 03 14	691	0.5-	0.7-
1981 10 07	095	(2.9-	6.0-)	2000 03 01	703	0.1+	0.3+	2000 03 14	691	0.5-	0.7-
1981 10 22	095	0.6+	0.9-	2000 03 01	703	0.2+	0.5+	2000 03 27	699	0.4+	0.4+
1981 10 24	095	0.5-	1.7-	2000 03 01	703	0.2-	0.3+	2000 03 27	699	0.3+	0.0
1991 09 10	675	(0.2-	2.1+)	2000 03 06	120	0.1-	0.2+	2000 03 27	699	0.2+	0.3+
1991 09 12	095	(5.1-	8.7+)	2000 03 06	120	0.3-	0.0	2000 03 27	699	0.2+	0.2+
1991 09 12	095	1.4-	0.9+	2000 03 06	120	0.4-	0.5+	2000 04 02	699	0.1+	0.0

1991 09 13	801	0.1+	0.5+	2000 03 07	120	0.2-	0.6-	2000 04 02	699	0.2+	0.4+
1991 09 13	801	0.2+	0.4+	2000 03 08	704	0.3+	0.0	2000 04 02	699	0.4+	0.2+
1991 09 17	675	0.4-	0.6-	2000 03 08	704	0.3-	0.6-	2000 04 02	699	0.2+	0.5+
1991 09 17	675	0.1-	0.2-	2000 03 08	704	0.3-	0.9-	2000 04 03	699	0.1-	0.4-
1991 10 02	675	0.2+	0.6+	2000 03 08	704	0.5-	1.4-	2000 04 03	699	0.1-	0.3+
1991 10 02	675	0.1-	0.5+	2000 03 08	704	0.2-	1.2-	2000 04 03	699	0.6-	0.1-
1991 10 07	675	0.8+	0.2-	2000 03 08	120	1.4-	0.2+	2000 04 03	699	0.3-	0.2+
1991 10 07	675	0.2+	0.3-	2000 03 09	120	(2.0+	0.5-)	2000 04 04	704	0.1+	0.7+
1991 10 08	675	0.3+	0.1+	2000 03 09	120	0.3-	0.3+	2000 04 04	704	0.6+	0.5+
1991 10 09	801	0.3-	0.3+	2000 03 10	704	0.1-	0.0	2000 04 04	704	0.1+	0.0
1991 10 09	801	0.4-	0.2+	2000 03 10	704	0.3-	0.4-	2000 04 04	704	0.3-	0.3+
1998 12 15	704	0.9-	0.0	2000 03 10	704	0.4+	0.2+	2000 04 04	704	0.2+	0.3+
1998 12 15	704	0.8-	0.2+	2000 03 10	704	0.3+	0.1-	2000 04 07	704	0.9+	0.1+
1998 12 15	704	0.4+	0.2-	2000 03 10	704	0.1-	0.6-	2000 04 07	704	0.0	0.8+
1998 12 15	704	0.0	0.4+	2000 03 11	120	0.4+	0.3-	2000 04 07	704	0.1-	1.5+
1998 12 15	704	0.4-	0.0	2000 03 11	120	0.4-	0.1-	2000 04 10	704	0.1+	0.3+
1998 12 22	704	0.8+	0.4+	2000 03 11	704	0.5+	0.1+	2000 04 10	704	0.8+	0.1+
1998 12 22	704	0.0	0.2-	2000 03 11	704	0.5+	0.3+	2000 04 10	704	0.6+	0.3+
1998 12 22	704	0.1+	0.6-	2000 03 11	704	0.1+	0.2+	2000 04 10	704	0.8+	0.2+
1998 12 22	704	0.0	0.8+	2000 03 11	704	0.0	0.0	2000 04 10	704	0.7+	0.4+
1998 12 22	704	0.6+	0.8+	2000 03 12	691	0.2-	0.6-				
2000 02 28	120	1.1-	0.2+	2000 03 12	691	0.2-	0.7-				

(14336)* 1981 UU₂₉ = 1991 RS₁₇

Discovered 1981 Oct. 24 by S. J. Bus at Palomar.

Id. T. Kobayashi (*MPC* 24100)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	176.95919		(2000.0)	P	Q
<i>n</i>	0.29145142	ω	109.51132	+0.99445774	+0.10314309
<i>a</i>	2.2529865	Ω	244.57291	-0.10292728	+0.91556035
<i>e</i>	0.1926383	<i>i</i>	1.29298	-0.02144241	+0.38872965
<i>P</i>	3.38	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 10 24	675	0.1-	0.8+	1998 10 20	699	0.1-	0.1-	1998 11 19	910	1.2+	0.1-
1981 10 25	675	0.5+	0.5+	1998 10 20	699	0.5+	0.3+	1998 11 19	910	1.2+	0.1-
1981 10 26	675	0.7-	0.0	1998 10 29	704	0.0	0.4+	1998 11 19	910	1.2+	0.1-
1991 08 08	675	0.8-	1.4-	1998 10 29	704	0.1-	0.5+	1998 11 26	691	1.2-	0.3-
1991 08 08	675	0.3+	0.8+	1998 10 29	704	1.8+	1.5+	1998 11 26	691	1.2-	0.4-
1991 09 05	511	0.8+	0.5-	1998 10 29	704	0.6-	0.4+	1998 11 26	691	1.4-	0.5-
1991 09 06	511	0.4+	1.1+	1998 10 29	704	0.4-	0.8-	1999 01 07	910	1.1-	0.2-
1991 09 13	675	0.3+	1.4-	1998 11 09	910	0.8+	0.6+	1999 01 07	910	1.3-	0.2+
1991 09 13	675	1.2-	0.3-	1998 11 09	910	0.7+	0.4+	1999 01 07	910	0.7-	0.2-
1991 09 15	675	0.3-	0.2-	1998 11 10	910	0.9+	0.2+	1999 02 14	691	0.2-	0.6-
1991 09 15	675	0.3-	0.3-	1998 11 10	699	0.6-	1.0+	1999 02 14	691	0.2-	0.4-
1991 09 17	675	1.2+	0.1+	1998 11 10	699	0.3+	0.3+	1999 02 14	691	0.3-	0.7-
1991 09 17	675	0.2-	0.2+	1998 11 10	699	0.3+	0.5-	2000 03 11	704	0.6+	0.3+
1998 08 30	699	0.1-	1.2-	1998 11 11	704	0.7-	0.6-	2000 03 11	704	0.1+	0.1+
1998 08 30	699	0.2+	0.1+	1998 11 11	704	0.8+	0.4+	2000 03 11	704	0.7+	0.5+
1998 08 30	699	1.4-	0.0	1998 11 11	704	0.4-	0.8-	2000 03 11	704	0.2+	0.1+
1998 08 31	704	0.7+	1.3+	1998 11 13	910	0.2-	0.1-	2000 03 11	704	0.0	0.8-
1998 08 31	704	0.2-	0.2+	1998 11 13	910	0.1-	0.1-	2000 03 25	691	0.3-	0.1-
1998 08 31	704	0.0	0.6+	1998 11 13	910	0.1-	0.1-	2000 03 25	691	0.3-	0.2-
1998 10 19	699	0.2-	1.3-	1998 11 18	704	1.4+	1.8+	2000 03 25	691	0.5-	0.1-
1998 10 19	699	0.6-	1.1-	1998 11 18	704	1.1-	0.2-	2000 04 02	691	0.2-	0.4-
1998 10 19	699	1.4+	0.9-	1998 11 18	704	1.5-	0.3-	2000 04 02	691	0.3-	0.6-
1998 10 20	699	1.4+	0.6-	1998 11 18	704	(2.1-	0.1-)	2000 04 02	691	0.5-	0.6-

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	88.23844		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23282813	ω	254.40165	+0.06337483	-0.99780709
<i>a</i>	2.6168515	Ω	192.01335	+0.94719125	+0.06616481
<i>e</i>	0.1823148	<i>i</i>	5.26398	+0.31434435	+0.00179778
<i>P</i>	4.23	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 10 24	675	0.4-	0.2-	1998 11 18	704	0.3+	0.1+	2000 03 14	703	0.6-	0.2+
1981 10 25	675	0.6-	1.0-	1998 11 18	704	0.0	0.1-	2000 03 14	703	0.4+	0.6+
1981 10 26	675	1.0-	0.3-	1998 11 18	704	0.1-	0.3-	2000 04 04	699	0.2+	0.2-
1981 11 16	323	0.4-	0.6-	1998 11 18	704	0.5+	1.2+	2000 04 04	699	0.2+	0.4+
1981 11 17	323	0.4+	1.1+	1998 11 18	704	0.7+	0.7-	2000 04 04	699	0.5+	0.2-
1981 11 23	323	0.6+	0.4+	1998 11 21	704	0.0	0.3-	2000 04 04	699	0.1+	0.0
1981 12 01	323	1.7+	0.8-	1998 11 21	704	0.6+	0.2+	2000 04 05	684	0.0	0.5+
1996 04 18	691	1.0-	0.1+	1998 11 21	704	0.0	0.3+	2000 04 05	684	0.3-	0.5+
1996 04 18	691	0.9-	0.2-	1998 11 21	704	(0.2-	2.5+)	2000 04 05	704	0.3+	0.0
1996 04 18	691	0.9-	0.0	1998 11 21	704	1.0+	1.6+	2000 04 05	704	0.2+	0.6-
1996 05 19	809	1.1+	0.0	1998 11 24	704	0.3-	0.2-	2000 04 05	704	0.2-	0.9-
1996 05 19	809	0.1+	0.0	1998 11 24	704	0.7+	0.2-	2000 04 05	704	0.2+	0.4-
1996 05 19	809	1.4+	1.3-	1998 11 24	704	0.9-	0.8-	2000 04 05	704	0.2-	0.2-
1998 10 20	699	0.3-	0.4+	1998 11 24	704	0.0	1.1-	2000 04 06	704	0.4-	0.5-
1998 10 20	699	0.6-	0.4-	1998 11 24	704	0.8-	0.2+	2000 04 06	704	0.1+	0.4-
1998 10 20	699	0.8+	0.5-	1998 12 11	699	0.3-	1.0-	2000 04 06	704	0.0	0.4-
1998 11 11	704	0.2+	0.2+	1998 12 11	699	0.9-	0.2-	2000 04 06	704	0.1-	0.4-
1998 11 11	704	0.2-	0.1+	1998 12 11	699	0.3+	0.1+	2000 04 06	704	0.5-	0.9-
1998 11 11	704	0.6-	0.2+	1999 01 15	699	0.0	0.0	2000 04 07	704	0.3-	0.2+
1998 11 11	704	0.2+	0.9+	1999 01 15	699	0.7-	0.3+	2000 04 07	704	0.3+	0.5-
1998 11 11	699	0.2+	0.2+	1999 01 15	699	0.2-	0.5-	2000 04 07	704	0.4+	0.8+
1998 11 11	699	0.3+	0.5+	2000 03 14	703	0.3+	0.5+	2000 04 07	704	0.1+	1.1+
1998 11 11	699	0.3-	0.2+	2000 03 14	703	0.2-	0.0	2000 04 07	704	0.5-	1.1+

(14338)* 1982 VP₃ = 1997 VB₂

Discovered 1982 Nov. 14 by H. Kosai and K. Hurukawa at the Kiso Station of the Tokyo Astronomical Observatory.

Id. S. Nakano (*MPC* 30868)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	299.15601		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19510231	ω	200.05974	-0.15035006	+0.96675759
<i>a</i>	2.9441580	Ω	61.78206	-0.87201651	-0.03111307
<i>e</i>	0.0582778	<i>i</i>	13.57482	-0.46581333	-0.25379470
<i>P</i>	5.05	<i>H</i>	12.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1982 11 14	381	1.1+	1.5+	1998 12 21	704	0.7-	1.0-	2000 04 04	704	0.4+	0.3-
1982 11 14	381	0.5+	0.4+	1998 12 21	704	0.5+	0.7+	2000 04 04	704	0.1+	0.1+
1982 12 13	381	1.7-	1.0+	1999 01 15	699	0.6+	0.3+	2000 04 04	704	0.1+	0.4+
1982 12 13	381	0.9-	0.5+	1999 01 15	699	0.2-	0.9+	2000 04 07	699	0.3-	0.0
1982 12 14	381	0.9-	0.8+	1999 01 15	699	0.3+	0.4+	2000 04 07	699	0.6-	0.2-
1982 12 14	381	0.9-	0.5+	1999 01 19	704	0.9-	0.2-	2000 04 07	699	0.5-	0.1-
1997 10 29	704	1.1+	1.0-	1999 01 19	704	0.7+	0.5-	2000 04 07	699	0.4-	0.2-
1997 10 29	704	0.0	0.5-	1999 01 19	704	1.9-	0.3-	2000 04 08	704	0.1+	0.3-
1997 10 29	704	0.5-	0.5-	1999 01 19	704	1.1+	0.3-	2000 04 08	704	0.3+	0.5-
1997 10 29	704	1.0-	0.8-	1999 01 19	704	(4.0-	0.6+)	2000 04 08	704	0.8-	0.2-
1997 10 29	704	0.4-	0.6-	1999 02 13	704	1.2+	0.0	2000 04 09	699	0.3-	0.3-
1997 11 01	399	0.4+	0.3+	1999 02 13	704	0.7+	0.2-	2000 04 09	699	0.3-	0.0
1997 11 01	399	1.7+	0.4+	1999 02 13	704	0.2+	0.1-	2000 04 09	699	0.3-	0.1+
1997 11 02	399	1.0-	0.7-	1999 02 13	704	0.1-	0.5+	2000 04 09	699	0.2-	0.0
1997 11 02	399	0.1+	1.3+	1999 02 13	704	0.3-	1.2-	2000 04 13	704	0.2+	0.1-
1997 11 24	399	1.5+	1.4-	2000 01 08	699	0.0	0.3-	2000 04 13	704	0.6+	0.1-
1997 11 24	399	0.4-	0.9+	2000 01 08	699	0.1+	0.8+	2000 04 13	704	0.5+	0.3+
1998 10 15	699	1.2+	0.2+	2000 01 08	699	0.2+	0.7+	2000 04 13	704	0.3+	0.3+
1998 10 15	699	0.3-	0.7+	2000 02 08	704	0.1-	0.5+	2000 04 13	704	0.1+	0.0
1998 10 15	699	1.7-	0.2-	2000 02 08	704	0.2+	1.4+	2000 04 15	704	0.3+	0.1-
1998 12 21	704	0.2+	0.7-	2000 02 08	704	0.8+	0.7+	2000 04 15	704	0.1+	0.1+

1998 12 21	704	0.5-	0.7-	2000 04 04	704	0.6+	0.2-	2000 04 15	704	0.5+	0.0
1998 12 21	704	0.6-	0.9-	2000 04 04	704	0.5-	0.1-				

(14339)* 1983 GU = 1991 DN

Discovered 1983 Apr. 10 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 17957)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	289.99635		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23520032	ω	176.56066	+0.38496985	+0.89530500
<i>a</i>	2.5992264	Ω	115.97554	-0.85260884	+0.43796240
<i>e</i>	0.1780058	<i>i</i>	14.43598	-0.35335022	-0.08135041
<i>P</i>	4.19	<i>H</i>	11.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1983 04 10	095	0.0	1.1+	1999 01 19	104	0.5-	0.6-	2000 03 08	704	0.0	1.0-
1983 04 12	095	0.6-	0.5+	1999 01 19	104	0.9-	0.1+	2000 03 08	704	0.6+	0.8-
1983 05 01	095	1.3+	1.0+	1999 01 19	704	0.3-	0.3-	2000 03 08	704	1.2+	1.1-
1991 02 19	376	(1.2-	2.6+)	1999 01 19	704	0.5-	0.2+	2000 03 08	704	0.5+	0.5+
1991 02 19	376	(1.0-	4.3+)	1999 01 19	704	1.6-	0.3+	2000 03 08	704	0.7+	1.7+
1991 02 23	376	0.7-	0.1-	1999 01 19	704	0.9-	0.5+	2000 04 04	699	0.2-	0.2+
1991 02 23	376	0.9+	1.0+	1999 01 19	704	0.4+	0.8+	2000 04 04	699	0.3-	0.1+
1996 05 25	292	0.3-	1.4-	1999 01 23	691	0.7+	0.1-	2000 04 04	699	0.4-	0.0
1996 05 25	292	0.5-	1.3-	1999 01 23	691	0.8+	0.2-	2000 04 04	699	0.4-	0.1+
1996 06 08	292	0.3+	0.8-	1999 02 10	704	0.1+	0.6-	2000 04 05	704	0.0	0.0
1996 06 08	292	0.5+	0.1-	1999 02 10	704	0.1-	0.4-	2000 04 05	704	0.0	0.2-
1996 06 17	560	0.0	0.0	1999 02 10	704	0.3-	0.2-	2000 04 05	704	0.1-	0.1-
1996 06 17	560	0.2-	0.1+	1999 02 10	704	0.4-	0.9-	2000 04 05	704	0.2+	0.0
1996 06 17	560	0.2-	0.7+	1999 02 10	704	0.1-	1.6-	2000 04 05	704	0.2-	0.0
1996 06 18	560	(4.1+	0.8-)	1999 02 13	704	0.0	0.1-	2000 04 06	636	0.0	0.3-
1996 06 18	560	(3.1+	0.5-)	1999 02 13	704	0.1+	0.3-	2000 04 06	636	0.2-	0.1-
1996 06 18	560	(3.0+	0.7-)	1999 02 13	704	0.7+	0.6+	2000 04 07	636	0.1-	0.2+
1996 07 12	801	0.4-	0.6+	1999 02 13	704	0.6+	0.3-	2000 04 07	636	0.3-	0.0
1996 07 12	801	0.3-	0.3+	1999 02 13	704	0.2-	0.6-	2000 04 08	628	0.0	0.1-
1996 07 18	801	0.2+	0.7-	1999 05 08	704	(2.5-	1.5-)	2000 04 08	628	0.4-	0.2-
1996 07 18	801	0.0	0.5-	1999 05 08	704	0.1-	0.0	2000 04 08	628	0.3-	0.4-
1999 01 10	699	0.1+	0.1-	1999 05 08	704	1.3-	1.3+	2000 04 08	628	0.3-	0.6-
1999 01 10	699	0.3+	0.4-	1999 05 08	704	0.8-	0.2-	2000 04 14	704	0.1-	0.1-
1999 01 10	699	0.3+	0.4-	1999 05 08	704	0.6-	0.6-	2000 04 14	704	0.1+	0.1-
1999 01 12	557	0.5+	0.3+	2000 02 06	704	0.1-	0.0	2000 04 14	704	0.3+	0.3+
1999 01 12	557	0.5+	0.3+	2000 02 06	704	0.6+	0.5+	2000 04 14	704	0.1-	0.2+
1999 01 12	557	0.6+	0.2+	2000 02 06	704	0.4+	0.1+	2000 04 14	704	0.3-	0.5+
1999 01 12	557	0.5+	0.2+	2000 02 06	704	0.3-	0.7+				
1999 01 19	104	1.4+	1.2-	2000 02 06	704	0.3+	0.3+				

(14340)* 1983 RQ₃ = 1954 QA₁ = 1993 FO₆₈

Discovered 1983 Sept. 2 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 23668, *MPC* 33474)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	197.41616		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27192855	ω	7.72978	+0.92254985	+0.38369090
<i>a</i>	2.3595699	Ω	329.60526	-0.35823282	+0.81208569
<i>e</i>	0.2423354	<i>i</i>	4.65093	-0.14342603	+0.43965683
<i>P</i>	3.62	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1954 08 27	675	0.2-	0.1+	1983 09 16	809	0.3+	0.6-	2000 02 29	704	1.0+	0.2+
1954 08 27	675	0.0	0.4+	1983 09 17	809	0.4+	0.3+	2000 02 29	704	1.0+	0.2+</

2000 APR. 18

M.P.C. 39801

1983 09 06	809	0.5+	0.0	1996 02 16	010	(0.5+	4.1+)	2000 03 11	704	0.3-	0.4-
1983 09 07	809	0.4+	0.2+	1996 02 17	010	(1.8+	4.0+)	2000 03 11	704	0.1+	0.5-
1983 09 07	809	0.2+	0.1+	1996 02 17	010	(0.5+	3.8+)	2000 03 11	704	0.4-	1.0-
1983 09 07	809	0.4+	0.1+	1996 02 17	010	(1.5+	4.0+)	2000 03 11	704	0.5-	0.8-
1983 09 08	809	0.1-	0.0	1998 12 14	704	1.1+	0.2-	2000 04 01	732	0.0	0.0
1983 09 08	809	0.3+	0.0	1998 12 14	704	(2.3+	0.3-)	2000 04 01	732	(3.0-	1.8+)
1983 09 08	809	0.3+	0.0	1998 12 14	704	0.6+	0.8+	2000 04 01	732	0.8-	0.4+
1983 09 09	809	0.1-	0.1+	1998 12 14	704	0.5+	0.6+	2000 04 02	732	(2.1-	0.8-)
1983 09 09	809	0.1+	0.0	1998 12 16	704	0.6+	0.0	2000 04 02	732	0.7-	1.6-
1983 09 09	809	0.5+	0.0	1998 12 16	704	0.5-	0.6-	2000 04 02	732	2.0-	0.3-
1983 09 11	809	1.0-	0.6-	1998 12 16	704	0.4+	0.0	2000 04 05	704	0.5-	1.2+
1983 09 11	809	0.9-	0.6-	1998 12 16	704	0.3+	0.1-	2000 04 05	704	0.3+	0.2-
1983 09 11	809	0.9-	0.7-	1998 12 16	704	0.8-	1.0-	2000 04 05	704	0.5-	0.4+
1983 09 13	809	1.1-	0.2+	1998 12 17	704	0.6-	0.9+	2000 04 05	704	0.2+	0.3+
1983 09 13	809	0.8-	0.1+	1998 12 17	704	0.3+	0.7-	2000 04 05	704	0.0	0.4+
1983 09 13	809	0.7-	0.0	1998 12 17	704	0.1+	0.7-	2000 04 07	704	0.6+	0.1+
1983 09 15	809	0.1+	0.5+	1998 12 17	704	1.1-	0.3+	2000 04 07	704	1.2-	0.4+
1983 09 15	809	0.0	0.7+	1998 12 17	704	0.8-	0.8+	2000 04 07	704	0.2+	0.0
1983 09 15	809	0.0	0.5+	2000 02 29	704	0.9+	0.0	2000 04 07	704	0.9+	0.6+
1983 09 16	809	0.1+	0.5-	2000 02 29	704	0.7-	0.0				

(14341)* 1983 RV₃ = 1991 GG₁₁

Discovered 1983 Sept. 4 by H. Debehogne at the European Southern Observatory.

Id. G. V. Williams (*MPC* 20331)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	247.77098	(2000.0)	P		
<i>n</i>	0.21848140	ω	144.17560	+0.76636787	+0.64236548
<i>a</i>	2.7301913	Ω	175.83635	-0.60916910	+0.73006454
<i>e</i>	0.1684908	<i>i</i>	5.41144	-0.20394436	+0.23317881
<i>P</i>	4.51	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1983 08 30	675	1.0+	0.2-	1983 09 15	809	0.7+	0.7-	2000 03 14	703	0.7+	1.1+
1983 08 31	675	1.2+	0.5+	1983 09 16	809	0.1+	0.4-	2000 03 14	703	0.6+	0.5+
1983 09 01	675	0.3+	0.3+	1983 09 16	809	0.2+	0.5-	2000 03 30	120	0.3-	0.9-
1983 09 02	675	0.1+	0.4-	1983 09 17	809	0.7+	1.2-	2000 03 30	120	0.4-	0.5-
1983 09 02	675	0.2+	0.3+	1983 09 17	809	0.8+	1.0-	2000 03 30	120	1.7-	1.3-
1983 09 04	809	(3.1-	2.0+)	1991 04 11	033	0.4-	0.2-	2000 04 02	699	0.2-	0.1+
1983 09 04	809	(2.7-	1.9+)	1991 04 11	033	1.0-	0.1-	2000 04 02	699	0.1-	0.3+
1983 09 04	809	2.4-	1.9+	1991 04 12	033	1.6-	0.4+	2000 04 02	699	0.3+	0.1-
1983 09 06	809	2.0-	1.4+	1991 04 19	809	(1.9-	2.9-)	2000 04 02	699	0.1-	0.3+
1983 09 06	809	1.9-	1.4+	1991 04 19	809	(4.6-	0.8-)	2000 04 05	704	0.3+	0.3+
1983 09 06	809	1.6-	1.5+	1991 04 19	809	(4.4-	1.2-)	2000 04 05	704	0.1-	0.1-
1983 09 06	095	(0.8+	2.6+)	1991 04 19	675	0.6+	1.9-	2000 04 05	704	0.1-	0.2-
1983 09 07	809	1.0-	0.6+	1991 04 19	675	0.4-	0.6+	2000 04 05	704	0.1-	0.3-
1983 09 07	809	0.8-	0.3+	1991 05 15	675	1.2-	0.8+	2000 04 05	704	0.2-	0.8-
1983 09 07	809	0.6-	0.4+	1991 05 15	675	0.1-	0.2-	2000 04 07	704	1.0+	0.4+
1983 09 08	809	0.5-	0.8+	1997 12 27	688	0.8-	0.9+	2000 04 07	704	0.8+	0.5+
1983 09 08	809	0.2-	0.4+	1997 12 27	688	0.5-	0.7+	2000 04 07	704	1.3+	0.5+
1983 09 08	809	0.4-	0.5+	1997 12 27	688	0.9-	0.7+	2000 04 07	704	0.1+	0.1+
1983 09 09	809	0.8+	0.7+	1997 12 29	688	0.9-	0.4+	2000 04 07	704	0.4+	1.8+
1983 09 09	809	0.6+	0.6+	1997 12 29	688	0.4-	0.2+	2000 04 08	704	0.4+	0.4+
1983 09 09	809	0.7+	0.6+	1999 02 05	120	0.9+	1.0-	2000 04 08	704	0.2+	0.0
1983 09 11	809	0.3+	0.7-	1999 02 05	120	1.3+	0.7+	2000 04 08	704	0.0	0.3-
1983 09 11	809	0.5+	1.0-	2000 03 09	704	0.7+	0.2+	2000 04 08	704	0.1+	0.6-
1983 09 11	809	0.7+	0.8-	2000 03 09	704	0.1+	0.3+	2000 04 08	704	0.1-	0.7-
1983 09 13	809	0.6+	0.3-	2000 03 09	704	0.4+	0.9+	2000 04 10	704	0.5+	0.6+
1983 09 13	809	0.7+	0.4-	2000 03 09	704	0.2+	1.0+	2000 04 10	704	0.3-	0.1+
1983 09 13	809	0.9+	0.5-	2000 03 09	704	0.5-	1.1+	2000 04 10	704	0.1+	0.2+
1983 09 15	809	0.4+	0.6-	2000 03 14	703	0.2-	0.5+	2000 04 10	704	0.2+	0.3+
1983 09 15	809	0.4+	0.8-	2000 03 14	703	0.0	0.1-	2000 04 10	704	0.2-	0.1+

(14342)* 1984 SL = 1995 CQ₁₀

Discovered 1984 Sept. 23 at Smolyan.

Id. S. Nakano (*MPC* 25061)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P		Q	
<i>M</i>	136.66752						
<i>n</i>	0.21800124	ω	228.18442	+0.89802789	-0.43510504		
<i>a</i>	2.7341987	Ω	157.37289	+0.43684497	+0.86441609		
<i>e</i>	0.3037762	<i>i</i>	9.73195	+0.05208062	+0.25192939		
<i>P</i>	4.52	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 09 23	071	1.4-	0.0	1999 01 18	704	0.5-	0.2+	2000 03 29	704	0.6-	0.8-
1984 09 23	071	2.1+	0.9-	1999 01 18	704	0.5-	0.5+	2000 03 29	704	0.4-	0.8-
1984 09 23	071	1.1-	0.1-	1999 01 20	704	0.5-	1.1+	2000 04 05	704	0.3+	0.1+
1984 09 23	071	0.5+	1.6+	1999 01 20	704	0.2+	1.9+	2000 04 05	704	0.4+	0.1-
1984 09 24	071	1.1-	0.7-	1999 01 20	704	0.7+	0.4+	2000 04 05	704	0.3+	0.1+
1984 09 24	071	0.8+	0.2+	1999 01 20	704	0.4-	0.1+	2000 04 05	704	0.4+	0.3+
1984 09 25	071	1.6+	2.2+	1999 01 20	704	0.5+	0.3+	2000 04 05	704	0.5+	0.0
1984 09 25	071	(0.5+	3.0+)	1999 03 10	704	(2.3-	2.0+)	2000 04 07	699	0.4+	0.1+
1984 09 28	688	0.5+	1.3-	1999 03 10	704	(3.1-	1.8+)	2000 04 07	699	0.5+	0.3+
1984 09 28	688	0.4+	1.4-	1999 03 10	704	(3.9-	3.4+)	2000 04 07	699	0.2+	0.4+
1984 10 23	688	0.5-	0.1-	1999 03 10	704	(1.0-	3.1+)	2000 04 07	704	0.1+	0.1-
1984 10 23	688	0.9-	0.5-	1999 04 07	704	0.2+	0.4-	2000 04 07	704	0.2+	0.6+
1984 10 29	688	0.2+	0.4+	1999 04 07	704	0.3-	1.0-	2000 04 07	699	0.0	0.4+
1984 10 29	688	0.7-	0.0	1999 04 07	704	0.3-	0.5-	2000 04 07	704	0.1+	0.1+
1992 04 30	691	0.6-	0.7-	1999 04 07	704	0.8-	1.9-	2000 04 07	704	0.8+	0.3+
1992 04 30	691	0.9-	0.7-	2000 02 08	704	1.2+	0.4-	2000 04 07	704	0.0	0.5+
1992 04 30	691	1.4-	1.0-	2000 02 08	704	0.3+	0.3-	2000 04 08	704	0.2+	0.5-
1995 02 06	399	0.9-	1.6-	2000 02 08	704	0.4+	0.1+	2000 04 08	704	0.0	0.1+
1995 02 06	399	(0.1+	2.1-)	2000 02 08	704	0.4+	0.4-	2000 04 08	704	0.1+	0.1-
1995 03 05	399	1.9-	0.2-	2000 02 08	704	0.2-	0.6-	2000 04 08	704	0.5+	0.0
1995 03 05	399	(3.3-	0.4+)	2000 02 11	704	0.4-	0.1-	2000 04 08	704	0.2+	0.4+
1995 03 06	399	(3.8-	0.8+)	2000 02 11	704	0.9+	1.3-	2000 04 08	704	0.4+	0.0
1995 03 06	399	(5.1-	1.0+)	2000 02 11	704	0.8+	1.5+	2000 04 08	704	0.4-	0.0
1998 12 15	704	1.2+	0.2+	2000 02 11	704	0.0	0.2+	2000 04 08	704	0.5+	0.0
1998 12 15	704	1.0+	0.7-	2000 02 27	703	0.4+	0.1-	2000 04 08	704	0.2+	0.2+
1998 12 15	704	0.5+	0.1-	2000 02 27	703	0.2+	0.6+	2000 04 08	704	0.2+	0.2-
1998 12 15	704	1.6+	1.0-	2000 02 27	703	0.3+	0.1+	2000 04 10	704	0.2-	0.0
1998 12 16	426	0.5+	0.4-	2000 02 27	703	0.1-	0.3+	2000 04 10	704	0.3+	0.1-
1998 12 16	426	0.4+	0.4-	2000 03 08	704	0.1+	0.2+	2000 04 10	704	0.0	0.0
1998 12 18	426	0.5+	0.3-	2000 03 08	704	0.6+	0.9+	2000 04 10	704	0.1-	0.2+
1998 12 18	426	0.6+	0.4-	2000 03 08	704	0.6-	0.6-	2000 04 10	704	0.1-	0.3+
1998 12 18	426	0.6+	0.4-	2000 03 08	704	0.2+	1.1+	2000 04 10	704	0.5+	0.2+
1998 12 22	704	1.3-	0.9-	2000 03 08	704	0.5-	0.3+	2000 04 10	704	0.0	0.0
1998 12 22	704	0.5-	0.6-	2000 03 12	704	0.1-	0.0	2000 04 10	704	0.2+	0.1+
1998 12 22	704	0.5-	1.6+	2000 03 12	704	0.4-	0.6-	2000 04 10	704	0.3-	0.1+
1998 12 22	704	0.3-	0.3-	2000 03 12	704	0.8-	0.6-	2000 04 10	704	0.3+	0.7+
1999 01 14	716	0.1-	0.2+	2000 03 12	704	0.7-	1.1-	2000 04 12	608	0.3+	0.1-
1999 01 14	716	0.7+	0.1-	2000 03 26	699	0.8-	0.2+	2000 04 12	608	0.4+	0.0

Residuals in seconds of arc

1984 09 18	809	1.1-	0.6+	1998 12 15	704	0.3+	1.1-	2000 03 12	704	0.1-	0.1+
1984 09 18	809	0.7-	0.8+	1998 12 16	699	0.8+	0.3-	2000 03 12	704	0.4-	0.3+
1984 09 18	809	0.2-	1.0+	1998 12 16	699	0.4+	0.2-	2000 03 12	704	0.0	0.4+
1984 09 21	809	0.5+	0.3+	1998 12 16	699	0.2+	0.2-	2000 03 12	704	0.1+	0.1+
1984 09 21	809	0.2+	0.2+	1998 12 22	704	0.7-	0.6-	2000 03 26	699	0.4-	0.0
1984 09 21	809	0.1+	0.1+	1998 12 22	704	1.6+	0.5-	2000 03 26	699	0.4-	0.3+
1984 09 22	809	0.6-	1.1-	1998 12 22	704	0.0	0.3-	2000 03 26	699	0.4-	0.2+
1984 09 22	809	0.3-	1.0-	1998 12 22	704	(2.1-	0.6-)	2000 03 26	699	0.5-	0.1-
1984 09 22	809	0.2+	1.0-	1999 01 07	704	0.4+	1.3-	2000 03 28	704	0.7-	0.4+
1984 09 23	809	0.9-	0.0	1999 01 07	704	1.1+	1.3+	2000 03 28	704	0.1-	0.5+
1984 09 23	809	0.9-	0.0	1999 01 07	704	0.4-	0.6-	2000 03 28	704	0.2+	0.7+
1984 09 23	809	0.9-	0.1+	1999 01 10	699	0.6+	0.3+	2000 03 28	704	0.4-	0.1+
1984 09 24	809	0.5+	0.7+	1999 01 10	699	0.5-	0.2+	2000 03 31	049	1.0+	1.0-
1984 09 24	809	0.4+	0.3+	1999 01 10	699	0.3+	0.3+	2000 03 31	049	1.0+	0.9-
1984 09 24	809	0.4+	0.1-	1999 01 15	699	0.3-	0.7-	2000 03 31	049	1.0+	0.9-
1984 09 26	809	0.5+	0.3+	1999 01 15	699	0.6-	0.3-	2000 04 05	704	0.0	0.0
1984 09 26	809	0.7+	0.0	1999 01 15	699	0.2+	0.6+	2000 04 05	704	0.1-	0.0
1984 09 26	809	0.7+	0.2-	1999 01 23	699	1.1-	0.0	2000 04 05	704	0.3+	0.1+
1984 09 27	809	0.1+	0.2-	1999 01 23	699	0.2-	0.5+	2000 04 05	704	0.3-	0.1+
1984 09 27	809	0.2+	0.0	1999 01 23	699	1.3-	0.7-	2000 04 05	704	0.1-	0.3+
1984 09 27	809	0.5+	0.2+	2000 01 13	699	0.5+	0.4+	2000 04 06	049	0.7+	1.3-
1984 09 28	809	0.4-	0.1+	2000 01 13	699	0.4+	0.2-	2000 04 06	049	0.8+	1.2-
1984 09 28	809	0.1-	0.0	2000 01 13	699	0.4-	0.4-	2000 04 06	049	0.8+	1.2-
1984 09 28	809	0.1-	0.1-	2000 02 08	704	0.7+	0.2+	2000 04 07	699	0.8-	0.2+
1984 09 29	809	0.4+	1.0+	2000 02 08	704	0.2+	0.2+	2000 04 07	699	0.7-	0.3+
1984 09 29	809	0.4+	0.8+	2000 02 08	704	0.8+	1.0+	2000 04 07	699	0.7-	0.4+
1984 09 29	809	0.4+	0.7+	2000 02 08	704	0.3+	0.7+	2000 04 07	699	0.8-	0.2+
1984 09 30	809	0.3-	0.3+	2000 02 08	704	1.0+	1.8+	2000 04 08	704	0.0	0.2+
1984 09 30	809	0.7-	0.3+	2000 02 11	704	0.2+	0.1-	2000 04 08	704	0.1+	0.1+
1984 09 30	809	0.6-	0.3+	2000 02 11	704	0.2-	0.3+	2000 04 08	704	0.3+	0.6+
1984 10 01	809	0.5+	0.9+	2000 02 11	704	1.2+	1.0+	2000 04 08	704	0.4+	0.2-
1984 10 01	809	0.1-	0.9+	2000 02 11	704	0.5+	1.1+	2000 04 08	704	0.2-	0.5+
1990 04 01	675	0.1-	0.3-	2000 02 11	704	0.3+	1.5+	2000 04 08	049	1.1+	0.4-
1998 11 13	704	0.4-	0.9+	2000 02 29	704	0.1+	0.3+	2000 04 08	049	1.2+	0.8-
1998 11 13	704	0.3+	1.2-	2000 02 29	704	0.0	0.6+	2000 04 08	049	0.9+	0.7-
1998 11 13	704	0.3+	1.3+	2000 02 29	704	0.3-	0.1+	2000 04 10	704	0.2-	0.3+
1998 11 13	704	0.3-	0.6+	2000 02 29	704	0.7-	0.0	2000 04 10	704	0.1-	0.2-
1998 11 13	704	1.0-	1.3+	2000 03 08	704	0.1+	0.2+	2000 04 10	704	0.3-	0.7+
1998 12 15	704	0.8+	1.4+	2000 03 08	704	1.3-	0.5-	2000 04 10	704	0.5-	0.6+
1998 12 15	704	0.2+	0.3-	2000 03 08	704	1.0-	0.2+	2000 04 10	704	0.7-	0.5+
1998 12 15	704	0.6-	0.4-	2000 03 08	704	0.3-	0.6+				

(14344)* 1985 CP₂ = 1994 PF₃₅

Discovered 1985 Feb. 15 by H. Debehogne at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 24559)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	81.21705	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26675779	ω	144.13014	+0.17477511	-0.98420532
<i>a</i>	2.3899637	Ω	295.78926	+0.89591193	+0.17083301
<i>e</i>	0.1344020	<i>i</i>	1.79285	+0.40840602	+0.04643238
<i>P</i>	3.69	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1985 02 15	809	0.4+	0.5-	1998 09 18	704	1.2+	1.1+	1998 10 28	704	1.4-	1.2-
1985 02 15	809	0.5+	0.5-	1998 09 18	704	1.5+	0.1-	1998 10 28	704	(1.3-	2.1-)
1985 02 15	809	0.6+	0.5-	1998 09 18	704	1.0-	1.0+	1998 10 29	704	(1.7-	2.4+)
1985 02 16	809	0.2+	0.3-	1998 09 18	704	0.6-	1.0+	1998 10 29	704	0.2+	1.6+
1985 02 16	809	0.4+	0.3-	1998 09 25	704	(3.2+	0.6+)	1998 10 29	704	0.7-	0.9+
1985 02 16	809	0.5+	0.4-	1998 09 25	704	(2.4+	0.6-)	1998 10 29	704	0.0	1.1+
1985 02 17	809	0.7-	0.2-	1998 09 25	704	0.8+	0.3-	2000 03 03	703	0.5-	0.8+
1985 02 17	809	0.5-	0.2-	1998 09 25	704	(2.0+	0.7-)	2000 03 03	703	0.9-	0.3+
1985 02 17	809	0.3-	0.1-	1998 09 26	704	0.4-	0.2-	2000 03 03	703	0.0	0.9+
1985 02 18	809	(2.6+	1.1-)	1998 09 26	704	0.9-	0.2+	2000 03 03	703	0.1+	0.5+
1985 02 18	809	(3.1+	1.1-)	1998 09 26	704	0.7-	0.5+	2000 03 26	699	0.6+	0.9+

1985 02 18	809	(3.0+	1.1-)	1998 09 26	704	0.5-	0.1+	2000 03 26	699	0.3+	0.5+
1985 02 21	809	0.0	1.0+	1998 09 26	704	0.6-	1.3+	2000 03 26	699	0.1-	1.1-
1985 02 21	809	0.2+	0.9+	1998 09 27	704	0.4+	0.3+	2000 03 26	699	0.8+	0.2-
1985 02 21	809	0.4+	0.9+	1998 09 27	704	0.8+	1.1+	2000 04 04	704	1.6-	0.1+
1985 02 22	809	0.8-	0.2+	1998 09 27	704	0.2-	1.1+	2000 04 04	704	0.2-	0.9+
1985 02 22	809	0.6-	0.1+	1998 09 27	704	0.2-	1.2+	2000 04 04	704	0.6+	0.3+
1985 02 22	809	0.3-	0.1+	1998 09 27	704	0.6+	1.4+	2000 04 04	704	0.8-	0.8+
1994 08 10	809	0.1-	1.0+	1998 10 14	704	(2.6-	2.2+)	2000 04 04	704	1.1+	0.5+
1994 08 10	809	0.8-	0.3+	1998 10 14	704	0.0	0.3+	2000 04 07	704	0.6+	0.3-
1994 08 10	809	0.6-	1.2+	1998 10 14	704	1.7-	1.7-	2000 04 07	704	0.4+	0.1+
1994 08 11	809	0.1-	0.1-	1998 10 14	704	1.0+	1.0+	2000 04 07	704	0.4+	0.0
1994 08 11	809	0.3-	0.0	1998 10 14	704	0.3-	0.4-	2000 04 07	699	0.4+	0.0
1994 08 11	809	0.9-	0.1+	1998 10 14	699	1.0-	0.5+	2000 04 07	704	0.5+	0.2-
1994 09 01	691	0.5-	0.0	1998 10 14	699	0.3+	0.6+	2000 04 07	699	0.1+	0.6+
1994 09 01	691	0.9-	0.3-	1998 10 14	699	0.1+	0.6+	2000 04 07	704	0.2+	0.6-
1994 09 01	691	0.8-	0.7-	1998 10 15	704	0.2-	0.2-	2000 04 07	699	0.5-	0.4+
1994 09 03	809	0.3+	0.3+	1998 10 15	704	0.5-	1.1+	2000 04 07	699	0.2-	0.7+
1994 09 03	809	0.0	0.2-	1998 10 15	704	(2.5-	0.0)	2000 04 08	704	0.2+	1.0+
1994 09 03	809	0.9+	0.9+	1998 10 15	704	(1.0-	2.2+)	2000 04 08	704	(2.5+	1.0+)
1994 09 04	809	(2.3+	1.0+)	1998 10 15	704	1.6-	0.1+	2000 04 08	704	0.5+	1.1+
1994 09 04	809	1.7+	0.1-	1998 10 21	830	1.8+	0.9-	2000 04 08	704	0.8+	1.3+
1994 09 04	809	1.6+	0.2-	1998 10 21	830	0.5-	1.7-	2000 04 08	704	0.1-	0.3-
1998 09 14	704	0.5-	0.6+	1998 10 21	830	1.0+	0.8-	2000 04 08	704	1.7+	1.6+
1998 09 14	704	0.1-	1.2-	1998 10 28	704	1.3-	1.8+	2000 04 08	704	0.7+	0.9+
1998 09 14	704	0.0	1.5-	1998 10 28	704	(1.3-	2.7-)				
1998 09 18	704	0.9+	0.9-	1998 10 28	704	(1.5-	2.5-)				

(14345)* 1985 PO = 1973 SG₆ = 1977 QS₃ = 1981 QU₁

Discovered 1985 Aug. 14 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. S. Nakano (*MPC* 12580)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	196.19969	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.24304282	ω	201.21862	+0.97311433	+0.22784395
<i>a</i>	2.5430068	Ω	145.55609	-0.20181092	+0.91398891
<i>e</i>	0.1429086	<i>i</i>	3.41578	-0.11099932	+0.33572520
<i>P</i>	4.06	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1949 11 19	675	0.4+	1.0+	1993 08 13	675	0.2+	0.8+	2000 03 11	704	0.8-	1.1-
1949 11 19	675	0.2+	0.2+	1993 08 15	801	0.5-	0.2+	2000 03 11	704	0.5-	1.1-
1973 09 19	675	0.4+	1.0-	1993 08 15	801	0.2-	0.2+	2000 03 11	704	0.8-	1.8-
1973 09 19	675	1.2-	1.1-	1993 08 22	801	0.2-	0.1+	2000 03 14	703	0.3+	0.1-
1973 09 20	675	0.1+	1.6-	1993 08 22	801	0.7-	0.5+	2000 03 14	703	0.1-	0.5+
1973 09 24	675	0.6-	2.5-	1996 03 22	691	0.3-	0.6-	2000 03 14	703	0.1+	0.5+
1973 09 24	675	(0.4-	3.0-)	1996 03 22	691	0.3-	0.6-	2000 03 14	703	0.5+	0.3+
1973 09 25	675	(1.7+	3.5-)	1996 03 26	691	0.7+	0.9-	2000 03 26	699	0.8-	0.0
1973 09 25	675	(1.5+	2.9-)	1996 03 26	691	0.5+	0.8-	2000 03 26	699	0.5-	0.2-
1973 09 28	095	2.0+	2.0-	1996 03 26	691	0.6+	0.9-	2000 03 26	699	0.9-	0.3-
1973 09 29	675	0.7+	1.7-	1997 08 01	688	0.7-	0.3+	2000 03 26	699	0.8-	0.0
1973 09 29	675	0.4-	1.2-	1997 08 01	688	0.7-	0.2+	2000 03 29	704	0.2+	0.1-
1973 09 30	675	(0.2+	2.8-)	1997 10 31	688	0.0	0.5+	2000 03 29	704	0.6+	0.5-
1973 09 30	675	(0.6-	3.0-)	1997 10 31	688	0.0	0.7+	2000 03 29	704	0.2+	0.2-
1973 10 04	675	(2.6+	2.3-)	1998 12 15	704	(0.7-	2.3+)	2000 03 29	704	0.9+	0.5-
1973 10 04	675	2.4+	1.8-	1998 12 15	704	0.5+	1.0+	2000 04 04	704	0.1+	1.0-
1973 10 05	675	(1.7+	2.8-)	1998 12 15	704	0.1+	0.2+	2000 04 04	704	0.1-	0.7-
1973 10 05	675	1.2+	2.2-	1998 12 15	704	0.0	0.2+	2000 04 04	704	0.6-	0.5-
1977 08 23	095	(4.5-	1.0+)	1998 12 15	704	1.8-	1.0-	2000 04 04	704	0.4+	0.2-
1977 09 09	675	0.1-	0.0	1998 12 22	704	0.0	0.2+	2000 04 04	704	0.4+	0.4-
1977 09 09	095	1.1-	1.2+	1998 12 22	704	0.3-	1.0-	2000 04 07	699	0.4-	0.1+
1977 09 10	675	0.3-	0.0	1998 12 22	704	1.5+	0.7-	2000 04 07	699	0.2-	0.3-
1981 08 30	688	1.9+	1.7-	1998 12 22	704	0.1+	0.4+	2000 04 07	699	0.1-	0.4-
1981 08 30	688	0.4+	1.0-	1998 12 22	704	0.2+	0.0	2000 04 07	699	0.2-	0.1-
1985 08 14	688	1.3-	0.7-	2000 03 08	704	0.2-	0.3-	2000 04 08	704	0.2+	0.6-
1985 08 14	688	1.4-	2.0-	2000 03 08	704	0.6+	0.1+	2000 04 08	704	0.5-	0.1+
1985 08 20	688	0.9-	0.9-	2000 03 08	704	0.3+	0.1+	2000 04 08	704	0.3+	0.3-

2000 APR. 18

M.P.C. 39803

1985 08 20	688	(2.6− 1.0+)	2000 03 08	704	0.4+ 0.5+	2000 04 08	704	0.4− 0.1−
1985 08 22	688	2.0+ 2.1+	2000 03 08	704	0.1+ 0.5+	2000 04 08	704	0.4− 0.4+
1985 08 22	688	0.2+ 0.3−	2000 03 10	704	0.7− 0.7−	2000 04 10	704	0.0 0.6−
1985 09 12	688	(6.6− 0.6−)	2000 03 10	704	1.0− 0.1−	2000 04 10	704	0.4− 0.0
1993 07 18	801	0.8+ 0.0	2000 03 10	704	0.6− 0.6−	2000 04 10	704	0.4− 0.1−
1993 07 18	801	1.4+ 0.0	2000 03 10	704	1.0− 1.3−	2000 04 10	704	0.7− 0.4−
1993 07 19	801	0.7+ 0.3−	2000 03 10	704	(2.5− 2.0−)	2000 04 10	704	0.5− 0.9−
1993 07 19	801	0.6+ 0.6+	2000 03 11	704	0.0 0.4−			
1993 08 13	675	0.9+ 0.9+	2000 03 11	704	0.4− 0.1−			

(14346)* 1985 QG₅ = 1997 YZ₁₉

Discovered 1985 Aug. 23 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 31097)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		209.66320		(2000.0)		P		Q	
<i>n</i>		0.17537688	ω	281.80791		+0.97957989		+0.19927641	
<i>a</i>		3.1609756	Ω	66.70208		−0.17129670		+0.89669882	
<i>e</i>		0.1599064	<i>i</i>	1.66499		−0.10526484		+0.39524694	
<i>P</i>		5.62	<i>H</i>	12.8		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1985 08 23	095	(1.4− 3.1−)	1999 02 10	704	0.9+ 0.3+	2000 04 05	691	0.0 0.3−
1985 09 15	095	1.1− 0.7+	1999 02 10	704	0.6+ 0.6−	2000 04 06	691	0.6− 0.1−
1985 09 20	095	0.9+ 0.1−	1999 02 13	704	1.5− 0.8−	2000 04 06	704	0.7+ 0.0
1997 11 29	704	1.5− 1.6−	1999 02 13	704	0.2− 0.6−	2000 04 06	691	0.6− 0.0
1997 11 29	704	(3.7− 0.7−)	1999 02 13	704	0.4− 0.0	2000 04 06	704	0.2− 0.1+
1997 11 29	704	1.5− 0.2−	1999 02 13	704	0.4− 1.4+	2000 04 06	704	0.3+ 0.4+
1997 11 29	704	1.6− 0.5−	2000 03 04	703	0.5− 1.2−	2000 04 06	691	0.8− 0.1−
1997 11 29	704	(2.4− 0.2−)	2000 03 04	703	0.3− 0.5+	2000 04 06	704	0.0 0.4+
1997 12 05	704	0.0 0.0	2000 03 04	703	0.2+ 0.1+	2000 04 06	704	0.1− 0.3+
1997 12 05	704	0.2+ 0.3+	2000 03 04	703	0.4+ 0.9−	2000 04 07	691	0.7− 0.6−
1997 12 05	704	0.3+ 1.5+	2000 03 09	704	0.2− 0.1+	2000 04 07	704	0.4+ 0.5−
1997 12 05	704	0.9+ 1.0+	2000 03 09	704	0.6− 0.5−	2000 04 07	691	0.6− 0.5−
1997 12 05	704	1.8+ 1.5+	2000 03 09	704	0.3+ 0.3+	2000 04 07	691	0.6− 0.5−
1997 12 27	098	1.2+ 1.4+	2000 03 09	704	0.6+ 0.3+	2000 04 07	704	0.9+ 0.8+
1997 12 27	098	(2.6− 0.5+)	2000 03 09	704	0.4+ 1.5+	2000 04 07	704	0.4+ 0.2+
1997 12 31	704	0.1+ 0.2−	2000 04 02	699	0.2− 1.0+	2000 04 07	704	0.8+ 0.2+
1997 12 31	704	0.5+ 0.2−	2000 04 02	699	0.9+ 0.0	2000 04 07	704	1.1+ 0.5+
1997 12 31	704	0.2+ 0.0	2000 04 02	699	0.0 0.2−	2000 04 08	691	0.4− 0.5−
1997 12 31	704	0.1− 0.3−	2000 04 02	699	0.2− 0.3+	2000 04 08	691	0.6− 0.6−
1998 01 02	704	0.2+ 0.5−	2000 04 03	699	0.4− 0.1−	2000 04 08	691	0.7− 0.8−
1998 01 02	704	0.1+ 0.5−	2000 04 03	699	0.4+ 0.4+	2000 04 10	704	0.2+ 0.0
1998 01 02	704	0.3+ 0.8−	2000 04 03	699	0.4+ 0.5+	2000 04 10	704	0.3− 0.0
1998 01 02	704	1.2− 0.3−	2000 04 03	699	0.6+ 0.6+	2000 04 10	704	0.0 0.2+
1999 01 19	704	1.3+ 0.6−	2000 04 05	704	0.2+ 0.2−	2000 04 10	704	0.3− 0.0
1999 01 19	704	0.1− 0.2+	2000 04 05	704	0.3+ 0.4+	2000 04 10	704	0.1+ 0.6+
1999 01 19	704	0.5+ 0.2+	2000 04 05	704	0.5+ 0.2+	2000 04 12	691	0.1− 0.5−
1999 01 19	704	1.0− 0.2+	2000 04 05	704	0.0 0.5+	2000 04 12	691	0.2− 0.4−
1999 01 19	704	(3.5− 2.0−)	2000 04 05	691	0.0 0.3−	2000 04 12	691	0.0 0.4−
1999 02 10	704	0.2− 0.1+	2000 04 05	704	0.1− 0.5+			
1999 02 10	704	0.5+ 0.0	2000 04 05	691	0.0 0.4−			

(14347)* 1985 RL₄ = 1982 VE₈ = 1998 VG₅

Discovered 1985 Sept. 11 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (*MPC* 33474)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		208.12106		(2000.0)		P		Q	
<i>n</i>		0.30894354	ω	299.19048		+0.90052632		+0.43346293	
<i>a</i>		2.1671217	Ω	35.15332		−0.37553198		+0.81489703	
<i>e</i>		0.1568289	<i>i</i>	3.39450		−0.21915308		+0.38477620	
<i>P</i>		3.19	<i>H</i>	14.5		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 11 09	095	0.3+ 1.4+	1998 11 11	704	0.2− 1.0+	2000 02 27	703	1.2+ 1.4+
1985 09 11	809	0.0 2.0+	1998 11 11	704	0.8− 0.1+	2000 03 08	704	0.3+ 1.2−
1985 09 11	809	0.2+ 2.0+	1998 11 11	704	0.4− 0.7+	2000 03 08	704	0.8− 1.4−
1985 09 11	809	0.2+ 2.0+	1998 11 11	704	1.4− 0.3−	2000 03 08	704	0.5+ 0.1+
1985 09 14	809	0.4− 1.6+	1998 11 12	120	0.6− 1.1+	2000 03 08	704	0.6− 0.4−
1985 09 14	809	0.0 1.7+	1998 11 12	120	(2.8+ 1.2+)	2000 03 11	704	0.1− 0.8+
1985 09 14	809	0.2+ 1.6+	1998 11 13	120	0.4+ 0.6+	2000 03 11	704	0.5− 0.7+
1985 09 15	809	0.0 0.2+	1998 11 13	120	(2.2− 1.6+)	2000 03 11	704	0.5− 0.8+
1985 09 15	809	0.2+ 0.0	1998 11 16	566	0.1− 0.1+	2000 03 11	704	0.4− 0.5+
1985 09 15	809	0.3+ 0.1−	1998 11 16	566	0.4− 0.1−	2000 03 11	704	1.3− 0.2−
1985 09 16	809	0.5− 0.6+	1998 11 16	566	0.2− 0.1+	2000 03 26	699	1.0+ 0.8+
1985 09 16	809	0.3− 0.6+	1998 11 18	704	0.2+ 0.5−	2000 03 26	699	0.3+ 0.4+
1985 09 16	809	0.0 0.4+	1998 11 18	704	0.5+ 0.7−	2000 03 26	699	0.5+ 0.6+
1985 09 17	809	0.1+ 0.4+	1998 11 18	704	1.2+ 1.4−	2000 03 26	699	0.3+ 0.4+
1985 09 17	809	0.4+ 0.4+	1998 11 18	704	0.7+ 1.7−	2000 03 28	704	0.4+ 1.0+
1985 09 17	809	0.7+ 0.4+	1998 11 18	704	0.8+ 0.3−	2000 03 28	704	0.2+ 0.8+
1985 09 18	809	0.9− 0.2−	1998 11 21	704	0.0 1.1−	2000 03 28	704	0.3+ 1.2+
1985 09 18	809	0.7− 0.1−	1998 11 21	704	0.4− 1.4−	2000 04 05	704	0.3+ 0.5+
1985 09 18	809	0.4− 0.2−	1998 11 21	704	(1.0+ 2.4−)	2000 04 05	704	0.4+ 0.1+
1985 09 19	809	1.6− 0.2−	1998 11 21	704	(1.3+ 3.8−)	2000 04 05	704	0.4+ 0.6+
1985 09 19	809	1.3− 0.5−	1998 11 24	704	0.1− 0.9+	2000 04 05	704	1.4+ 0.7+
1985 09 19	809	1.4− 0.5−	1998 11 24	704	0.5+ 1.1+	2000 04 07	699	0.4− 0.4+
1985 09 20	809	1.3− 0.5+	1998 11 24	704	0.1− 0.0	2000 04 07	699	0.0 1.2+
1985 09 20	809	0.9− 0.2+	1998 11 24	704	0.1+ 0.2+	2000 04 07	699	0.3− 0.4+
1985 09 21	809	0.3− 0.6+	1998 11 24	704	0.6+ 1.3+	2000 04 07	699	0.0 1.5+
1985 09 21	809	0.1− 0.4+	1998 11 25	699	0.3− 0.3+	2000 04 08	704	0.7+ 0.0+
1985 09 21	809	0.1+ 0.4+	1998 11 25	699	0.2+ 0.8+	2000 04 08	704	0.8+ 0.3+
1985 09 22	809	0.2− 0.3−	1998 11 25	699	0.2+ 0.5+	2000 04 08	704	0.1− 1.0+
1985 09 22	809	0.1+ 0.1−	1998 12 14	704	0.1+ 0.1−	2000 04 08	704	0.2+ 0.7+
1998 08 31	704	1.0+ 0.4−	1998 12 14	704	(1.1+ 2.4−)	2000 04 08	704	0.6+ 1.6+
1998 08 31	704	1.4+ 0.4−	1998 12 14	704	(0.1− 2.4−)	2000 04 10	704	0.3+ 0.2+
1998 08 31	704	0.9− 1.1−	1998 12 14	704	(0.7− 2.5−)	2000 04 10	704	0.9+ 0.7+
1998 11 10	704	0.0 0.6+	1998 12 14	704	0.9− 1.5−	2000 04 10	704	0.0 0.1−
1998 11 10	704	0.9− 0.3−	2000 02 27	703	0.9+ 0.9+	2000 04 10	704	0.4+ 0.0
1998 11 10	704	0.4+ 0.9+	2000 02 27	703	0.7+ 1.1+			
1998 11 10	704	(2.7− 0.9+)	2000 02 27	703	1.2+ 1.0+			

(14348)* 1985 UO₃ = 1992 GY₄

Discovered 1985 Oct. 20 by C.-I. Lagerkvist at Kvistaberg.

Id. B. G. Marsden (*MPC* 20813)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		164.29829		(2000.0)		P		Q	
<i>n</i>		0.23332221	ω	331.38759		+0.97895536		−0.02020116	
<i>a</i>		2.6131560	Ω	31.81761		+0.15347646		+0.72873562	
<i>e</i>		0.0443793	<i>i</i>	22.65477		−0.13450420		+0.68449712	
<i>P</i>		4.22	<i>H</i>	12.8		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 10 18	095	(4.9+ 1.6−)	1998 09 29	704	1.0+ 0.3−	2000 03 28	704	0.3− 0.4+
1985 10 20	049	0.7− 0.6−	1998 09 29	704	0.8− 0.2+	2000 03 28	704	0.2− 0.1+
1985 10 20	049	0.4− 0.5+	1998 10 02	704	0.2+ 0.8−	2000 03 28	704	0.3+ 0.3+
1985 10 24	049	(1.8+ 3.6−)	1998 10 02	704	0.9+ 1.7+	2000 03 28	049	0.3+ 0.8−
1985 10 24	049	1.9+ 0.7−	1998 10 02	704	0.0 1.2+	2000 03 28	049	0.4+ 0.9−
1985 11 12	095	(4.1+ 1.2−)	1998 11 16	704	0.3− 0.1−	2000 03 28	049	0.4+ 0.8−
1992 04 04	809	1.1+ 1.4+	1998 11 16	704	0.5+ 0.1+	2000 03 29	704	0.0 0.0
1992 04 04	809	0.5+ 1.6+	1998 11 16	704	0.2− 0.5+	2000 03 29	704	0.3+ 0.5+
1992 04 04	809	0.4+ 1.4+	1998 11 16	704	0.6− 0.5+	2000 03 29	704	0.1+ 0.0
1992 04 06	809	0.2+ 1.2−	1998 11 16	704	0.5− 0.6−	2000 03 29	704	0.3− 0.1+
1992 04 06	809	0.0 1.0−	2000 02 03	704	0.2+ 0.0	2000 03 29	704	0.1+ 0.0
1992 04 06	809	0.9+ 0.1+	2000 02 03	704	0.2+ 0.5+	2000 04 02	704	0.0 0.2−
1996 04 10	608	(0.5+ 2.1+)	2000 02 03	704	0.1− 0.6+	2000 04 02	704	0.4+ 0.7−
1996 04 10	608	(1.1+ 2.2+)	2000 02 03	704	0.2+ 0.4+	2000 04 02	704	0.4+ 0.9−
1996 04 12	608	1.0− 0.0	2000 02 03	704	0.6− 1.1+	2000 04 02	704	0.4− 0.1−
1996 04 12	608	0.9− 0.3+	2000 02 14	049	0.1+ 0.0	2000 04 06	608	0.3− 0.5−
1998 08 31	704	1.0− 0.5+	2000 02 14	049	0.2+ 0.2−	2000 04 06	608	0.0 0.3−

1998 08 31	704	1.1−	0.5+	2000 02 14	049	0.1+	0.2−	2000 04 06	608	0.1−	0.1−
1998 08 31	704	0.4+	0.9−	2000 03 04	704	0.1−	0.1−	2000 04 08	704	0.2−	0.1−
1998 08 31	704	0.0	0.6+	2000 03 04	704	0.1−	0.1−	2000 04 08	704	0.2−	0.1−
1998 08 31	704	1.4−	0.3+	2000 03 04	704	0.1−	0.2−	2000 04 08	704	0.3+	0.1+
1998 09 29	704	0.5+	0.9−	2000 03 04	704	0.0	0.2−	2000 04 08	704	0.3−	0.5+
1998 09 29	704	0.6+	0.1−	2000 03 04	704	0.3+	0.2−	2000 04 08	704	0.0	0.3+
1998 09 29	704	0.1+	0.5−	2000 03 28	704	0.7−	0.5+				

(14349)* 1985 UQ₄ = 1991 VM₂

Discovered 1985 Oct. 22 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 19499)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	173.79804	<i>ω</i>	259.32528	+0.91034011	−0.41205272		
<i>a</i>	3.2559659	<i>Ω</i>	124.99795	+0.39576086	+0.83941048		
<i>e</i>	0.1270365	<i>i</i>	2.70397	+0.12105462	+0.35440457		
<i>P</i>	5.88	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1985 10 22	095	1.8+	0.8+	1997 11 29	704	1.9−	0.0	2000 03 14	703	0.1+	0.4+
1985 11 09	095	0.9−	1.5+	1997 11 29	704	0.8−	0.4+	2000 03 14	703	0.1−	0.1+
1985 11 11	095	0.9−	1.2+	1997 12 04	704	1.2+	0.5+	2000 03 14	703	0.5−	1.4+
1991 11 09	399	(2.7−	1.0−)	1997 12 04	704	0.5−	0.9−	2000 03 14	703	0.2+	0.8+
1991 11 09	399	1.5−	1.1+	1997 12 04	704	0.7+	0.9−	2000 04 04	699	0.8−	1.0+
1991 11 11	399	0.3+	1.5−	1997 12 04	704	1.0+	0.3−	2000 04 04	699	0.8−	0.8+
1991 11 11	399	(2.4+	0.3−)	1997 12 04	704	0.0	0.1−	2000 04 04	699	0.7−	1.4+
1991 12 01	675	0.4+	1.6+	1997 12 05	704	1.7+	0.0	2000 04 04	699	0.6−	1.7+
1991 12 01	675	0.1−	0.2+	1997 12 05	704	0.6−	0.1−	2000 04 05	704	0.3+	0.2−
1991 12 03	675	0.3−	0.2+	1997 12 05	704	0.7−	0.3+	2000 04 05	704	0.9+	0.5+
1991 12 03	675	1.6−	0.2+	1997 12 05	704	0.9+	0.0	2000 04 05	704	0.6+	0.5−
1996 07 14	809	0.6−	0.5+	1997 12 05	704	1.1+	0.3−	2000 04 05	704	0.2+	0.2+
1996 07 14	809	0.3−	0.9+	1999 02 10	704	0.2+	0.7−	2000 04 07	704	0.3−	0.4+
1996 07 14	809	0.4−	1.2+	1999 02 10	704	0.5+	0.3+	2000 04 07	704	0.1+	0.4+
1996 09 18	327	0.8+	0.0	1999 02 10	704	0.7−	1.3+	2000 04 07	699	1.0+	0.3−
1996 09 18	327	0.8+	0.2−	1999 02 10	704	0.8−	0.1+	2000 04 07	704	0.3+	0.4+
1996 09 18	327	0.6+	0.3−	1999 02 12	691	0.3−	0.2−	2000 04 07	699	0.2−	0.4−
1996 11 07	327	1.0−	0.5−	1999 02 12	691	0.1+	0.2−	2000 04 07	699	0.6−	0.2+
1996 11 07	327	0.1+	0.1+	1999 02 13	704	1.2+	0.4−	2000 04 07	704	0.5+	0.5+
1996 11 07	327	0.0	0.0	1999 02 13	704	1.0+	1.0−	2000 04 07	699	0.3−	0.3−
1997 11 23	411	(2.5+	1.5−)	1999 02 13	704	0.6−	0.2−	2000 04 08	704	0.3+	0.7−
1997 11 23	411	1.6+	0.2−	1999 02 13	704	0.9+	0.2+	2000 04 08	704	0.1+	0.6+
1997 11 29	704	1.1−	0.2+	1999 02 21	691	0.2+	0.3−	2000 04 08	704	0.1+	0.8−
1997 11 29	704	1.2−	0.8+	1999 02 21	691	0.3+	0.4−	2000 04 08	704	0.8+	0.2+
1997 11 29	704	1.5−	0.1−	1999 02 21	691	0.4+	0.5−	2000 04 08	704	0.6−	0.7−

(14350)* 1985 VA₁ = 1999 CD₈₃

Discovered 1985 Nov. 1 by R. M. West at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33925)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	275.02799	<i>ω</i>	189.18194	+0.11798712	+0.93871081		
<i>a</i>	3.1483483	<i>Ω</i>	88.09085	−0.88926799	+0.24502925		
<i>e</i>	0.0814461	<i>i</i>	18.90889	−0.44190665	−0.24245141		
<i>P</i>	5.59	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1985 11 01	809	0.1−	0.8−	1999 02 10	704	0.8+	0.3−	2000 03 05	704	(5.5+	0.9+)
1985 11 03	809	0.4−	0.7+	1999 02 10	704	0.1−	0.4−	2000 03 05	704	(4.7+	0.3+)
1985 11 04	809	0.8+	0.6−	1999 02 10	704	0.2+	0.9−	2000 03 15	704	0.3+	0.2−
1985 11 05	809	0.6+	1.3−	1999 02 13	704	0.4+	0.2+	2000 03 15	704	0.1+	0.3−
1985 11 07	809	0.1+	1.0−	1999 02 13	704	1.5−	0.3+	2000 03 15	704	0.1−	0.4+
1997 10 30	566	0.6−	1.1+	1999 02 13	704	1.1+	0.6−	2000 03 15	704	0.1+	0.3+
1997 10 30	566	1.2−	0.7+	1999 02 13	704	0.7−	0.6−	2000 03 15	704	0.1+	0.6+

1997 10 30	566	0.4−	0.9+	1999 02 13	704	0.1−	1.5−	2000 03 27	699	0.1+	0.1−
1997 12 28	566	0.4−	0.7+	2000 02 03	704	0.4+	0.1−	2000 03 27	699	0.1+	0.4+
1997 12 28	566	0.1−	1.1+	2000 02 03	704	1.0+	0.2+	2000 03 27	699	0.3−	0.4+
1997 12 28	566	0.7−	0.8+	2000 02 03	704	0.8+	0.1−	2000 03 27	699	0.4−	0.6+
1999 01 09	699	0.5+	1.1−	2000 02 03	704	0.5+	0.1+	2000 04 02	704	0.2−	0.2+
1999 01 09	699	0.4−	0.8+	2000 02 03	704	0.5+	0.2+	2000 04 02	704	0.3−	0.0
1999 01 09	699	1.1+	0.6+	2000 03 05	704	(3.6+	0.0)	2000 04 02	704	0.1−	0.2+
1999 02 10	704	0.1+	1.3−	2000 03 05	704	(5.9+	0.3+)	2000 04 02	704	0.3−	0.4+
1999 02 10	704	0.2−	0.7−	2000 03 05	704	(5.1+	0.3+)				

(14351)* 1986 RF₃ = 1975 TF₅ = 1997 OQ

Discovered 1986 Sept. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. G. V. Williams (*MPC* 30446)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	235.69752	<i>ω</i>	142.72651	+0.82119281	+0.57064784		
<i>a</i>	2.4098576	<i>Ω</i>	182.48027	−0.53330239	+0.76629146		
<i>e</i>	0.1988559	<i>i</i>	2.44511	−0.20305400	+0.29522607		
<i>P</i>	3.74	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1975 10 14	095	(3.8+	1.0−)	1999 01 15	120	0.1+	0.7+	2000 04 02	699	0.3−	0.6−
1986 09 06	688	1.0−	1.6−	1999 01 15	120	0.3−	0.3+	2000 04 02	699	0.8−	0.2−
1986 09 06	688	1.5−	0.6+	1999 01 20	704	0.4+	0.4+	2000 04 02	699	0.2−	0.0
1986 09 06	095	1.4+	0.8−	1999 01 20	704	1.2−	1.2−	2000 04 05	704	0.2+	0.0
1986 09 12	688	1.7+	1.1−	1999 01 20	704	0.5+	0.0	2000 04 05	704	0.6+	0.1+
1986 09 12	688	0.7+	0.6+	2000 03 04	703	0.7−	0.6+	2000 04 05	704	0.1+	0.1+
1986 10 02	095	2.0+	0.2+	2000 03 04	703	0.3+	0.4+	2000 04 05	704	0.3+	0.2+
1986 10 05	688	0.8−	1.8−	2000 03 04	703	0.3−	0.2−	2000 04 05	704	0.1+	0.3+
1986 10 05	688	0.9−	0.7−	2000 03 04	703	0.2−	0.1+	2000 04 06	704	0.5+	0.0
1997 07 26	910	0.2−	0.1+	2000 03 09	704	0.7+	0.7+	2000 04 06	704	0.3+	0.1+
1997 07 26	910	0.3−	0.0	2000 03 09	704	0.3+	0.8+	2000 04 06	704	0.2+	0.4+
1997 07 27	910	0.0	0.1−	2000 03 09	704	0.9−	0.7+	2000 04 06	704	0.4+	1.3+
1997 07 28	910	0.2+	0.3+	2000 03 09	704	0.2+	0.6+	2000 04 06	704	0.4+	0.9+
1997 07 28	910	0.1−	0.0	2000 03 10	704	0.0	0.3−	2000 04 10	704	0.1+	0.1−
1997 07 28	910	0.3+	0.2+	2000 03 10	704	0.0	1.3−	2000 04 10	704	0.7+	0.3−
1999 01 09	327	0.1+	0.0	2000 03 10	704	0.4−	1.4−	2000 04 10	704	0.8+	0.2−
1999 01 09	327	0.3+	0.7−	2000 03 10	704	1.6−	0.8−	2000 04 10	704	0.1−	0.3−
1999 01 09	327	0.4−	0.5+	2000 03 10	704	1.0−	1.8−	2000 04 10	704	0.1−	0.0
1999 01 09	327	0.2+	0.2−	2000 04 01	691	0.0	0.6−	2000 04 12	691	0.4−	0.8−
1999 01 09	327	0.3+	0.2−	2000 04 01	691	0.0	0.6−	2000 04 12	691	0.8−	1.0−
1999 01 09	327	0.0	0.2−	2000 04 01	691	0.1−	0.8−	2000 04 12	691	0.5−	0.8−
1999 01 15	120	0.1+	0.1+	2000 04 02	699	0.2−	0.4−				

(14352)* 1987 DK₆ = 1991 PJ₁₆ = 1991 RJ₁₇ = 1998 XT₃₅

Discovered 1987 Feb. 23 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (*MPC* 19862; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	307.93491	<i>ω</i>	293.27099	−0.18219710	+0.98296694		
<i>a</i>	2.1652234	<i>Ω</i>	326.20331	−0.88556277	−0.17469026		
<i>e</i>	0.1821966	<i>i</i>	2.48189	−0.42729708	−0.05709034		
<i>P</i>	3.19	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 02 23	809	0.1+	0.7−	1987 03 03	809	0.4+	0.4+	1998 12 17	704	0.2+	1.7+
1987 02 23	809	0.4+	0.6−	1987 03 04	809	0.3+	0.2−	1998 12 17	704	1.0+	0.2+
1987 02 23	809	0.9+	0.5−	1987 03 04	809	0.4+	0.1−	1998 12 17	704	0.1+	0.3+
1987 02 24	809	0.7−	0.7−	1987 03 04	809	0.5+	0.0	1998 12 17	704	0.7−	1.5−
1987 02 24	809	0.2−	0.7−	1987 03 05	809	0.3+	0.3−	1998 12 17	704	0.3−	0.8+
1987 02 24	809	0.3−	0.8−	1987 03 05	809	0.7+	0.5−	2000 02 02	704	1.0+	0.0
1987 02 25	809	1.0−	0.1+	1987 03 05	809	0.3+	0.7−	2000 02 02	704	0.1+	0.1−
1987 02 25	809	0.8−	0.1−	1987 03 06	809	0.3+	0.6−	2000 02 02	704	0.1+	1.0−

2000 APR. 18

M.P.C. 39805

1987 02 25	809	0.8−	0.0	1987 03 06	809	0.5+	0.5−	2000 02 10	704	1.0+	1.0+
1987 02 26	809	1.3−	0.1−	1987 03 06	809	0.2+	0.4−	2000 02 10	704	0.6+	0.3+
1987 02 26	809	1.3−	0.2−	1988 10 13	675	0.3+	0.1+	2000 02 10	704	0.1+	0.2+
1987 02 26	809	1.1−	0.1+	1988 10 13	675	1.1+	0.2+	2000 03 30	704	0.1+	0.4−
1987 02 27	809	0.3−	0.2−	1991 08 07	675	1.3+	1.7−	2000 03 30	704	0.0	0.1−
1987 02 27	809	0.1+	0.4+	1991 08 08	675	(0.1+	2.8−)	2000 03 30	704	0.5+	0.6+
1987 02 27	809	0.6−	0.4+	1991 09 11	675	1.6+	0.2+	2000 04 07	704	0.1−	0.5−
1987 02 28	809	0.8−	0.2+	1991 09 11	675	0.7−	0.0	2000 04 07	704	0.2−	0.5−
1987 02 28	809	1.0−	0.3+	1991 09 13	675	(0.8−	2.7−)	2000 04 07	704	0.4−	0.3+
1987 02 28	809	1.0−	0.0	1991 09 13	675	1.5−	1.9−	2000 04 07	704	0.2−	0.2−
1987 03 01	809	0.1−	0.2−	1991 09 13	691	0.0	0.2−	2000 04 07	704	0.5−	0.2+
1987 03 01	809	0.3+	0.1+	1991 09 13	691	0.4+	0.3−	2000 04 08	704	0.0	0.1−
1987 03 01	809	0.6+	0.1+	1991 09 13	691	0.4+	0.0	2000 04 08	704	0.5−	0.2−
1987 03 02	809	0.4+	0.3+	1991 09 16	675	(1.2−	2.4−)	2000 04 08	704	0.3−	0.3+
1987 03 02	809	0.8+	0.3+	1991 09 16	675	0.0	1.3−	2000 04 08	704	0.2+	0.1−
1987 03 02	809	0.8+	0.1+	1998 12 14	704	0.1−	0.4−	2000 04 08	704	0.2−	0.0
1987 03 03	809	0.0	0.1+	1998 12 14	704	0.5+	0.3−				
1987 03 03	809	0.3+	0.3+	1998 12 14	704	1.3−	0.1−				

(14353)* 1987 DN₆ = 1991 BN₂

Discovered 1987 Feb. 23 by H. Debehogne at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 17820)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	55.74705	(2000.0)	P	Q	
<i>n</i>	0.23131412	ω	179.91023	−0.30421914	−0.95176004
<i>a</i>	2.6282577	Ω	287.80088	+0.87396910	−0.26213665
<i>e</i>	0.1680541	<i>i</i>	2.41044	+0.37898380	−0.15949041
<i>P</i>	4.26	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1987 02 23	809	1.2−	0.1−	1998 09 26	704	1.0−	0.3+	1998 11 10	704	0.9−	0.3+
1987 02 23	809	1.2−	0.0	1998 09 26	704	(1.3+	2.9−)	1998 11 10	704	0.9−	0.6−
1987 02 23	809	0.6−	0.4−	1998 09 26	704	0.8−	1.6−	1998 11 11	704	0.7+	0.8+
1987 02 24	809	0.7−	0.4+	1998 09 26	704	0.6+	0.3−	1998 11 11	704	0.2−	1.1−
1987 02 24	809	0.3−	0.1+	1998 09 26	704	0.6−	0.6−	1998 11 11	704	0.9+	1.3+
1987 02 24	809	0.1−	0.1+	1998 10 11	699	0.5−	0.4+	1998 11 11	704	0.1+	0.3−
1987 02 25	809	0.1+	0.3−	1998 10 11	699	1.3−	0.5+	1998 11 11	704	0.2−	0.2+
1987 02 25	809	0.0	0.4−	1998 10 11	699	0.5+	0.1−	1998 11 11	120	1.1−	0.2+
1987 02 25	809	0.2+	0.5−	1998 10 13	910	0.2+	0.3−	1998 11 11	120	0.7+	0.0
1987 02 26	809	0.4+	0.1−	1998 10 13	910	0.3+	0.2−	1998 11 11	120	0.3−	0.3+
1987 02 26	809	0.6+	0.1−	1998 10 13	910	0.3+	0.1+	1998 11 13	120	0.2−	1.4+
1987 02 26	809	0.8+	0.1−	1998 10 15	910	0.7+	0.2+	1998 11 13	120	0.5−	0.6+
1987 02 27	809	0.8+	0.6−	1998 10 15	910	0.9+	0.1+	1998 11 13	120	0.7−	0.5−
1987 02 27	809	0.9+	0.8−	1998 10 15	910	0.7+	0.1+	1998 11 17	699	1.2+	0.3−
1987 02 27	809	1.0+	0.8−	1998 10 15	704	0.2−	0.1+	1998 11 17	699	0.8+	0.2−
1987 02 28	809	0.1+	0.1−	1998 10 15	704	1.2+	0.2−	1998 11 17	699	0.6−	0.0
1987 02 28	809	0.4+	0.0	1998 10 15	704	0.6−	1.5+	2000 03 03	703	0.0	0.4+
1987 02 28	809	0.5+	0.0	1998 10 15	704	(3.1−	0.9+)	2000 03 03	703	0.2+	0.1+
1987 03 01	809	0.7+	0.2+	1998 10 20	910	1.0+	0.7+	2000 03 03	703	1.0+	0.3+
1987 03 01	809	0.8+	0.2−	1998 10 20	910	1.0+	0.6+	2000 03 03	703	0.4−	0.9+
1987 03 01	809	0.8+	0.0	1998 10 20	910	1.0+	0.6+	2000 04 07	699	0.2−	0.8+
1987 03 03	809	0.6−	0.3+	1998 10 21	910	1.4+	0.3+	2000 04 07	699	0.5+	1.0+
1987 03 03	809	0.5−	0.3+	1998 10 21	910	1.2+	0.2+	2000 04 07	699	0.2+	0.5+
1987 03 03	809	0.1+	0.3+	1998 10 21	910	1.4+	0.2+	2000 04 07	704	0.5+	0.6+
1987 03 04	809	0.0	0.3−	1998 10 27	120	0.5+	1.2+	2000 04 07	699	0.3+	0.6+
1987 03 04	809	0.2+	0.2−	1998 10 27	120	0.9−	0.7+	2000 04 07	704	1.0+	0.7+
1987 03 04	809	0.1−	0.2−	1998 10 27	120	1.3−	0.8+	2000 04 07	704	0.8+	0.4+
1987 03 05	809	1.2−	0.2+	1998 10 28	704	0.2−	1.0+	2000 04 07	704	0.2+	0.2+
1987 03 05	809	1.0−	0.2+	1998 10 28	704	1.5−	1.7+	2000 04 07	704	0.0	0.7+
1987 03 05	809	1.0−	0.3+	1998 10 28	704	0.8−	0.6+	2000 04 08	704	0.5+	0.7+
1991 01 16	675	0.3+	0.9+	1998 10 28	704	(2.1−	0.8+)	2000 04 08	704	0.1−	0.4+
1991 01 16	675	0.5−	0.1+	1998 10 28	120	0.7−	0.4+	2000 04 08	704	0.2+	0.0
1991 01 17	046	1.2−	1.9−	1998 10 28	120	1.1−	0.1−	2000 04 08	704	0.6+	0.7+
1991 01 17	046	1.3+	0.8−	1998 10 28	120	1.0−	0.4+	2000 04 08	704	0.5+	0.3−
1991 01 18	511	1.5−	0.1−	1998 10 28	120	0.7−	0.3+	2000 04 10	704	0.4−	1.3+

1991 01 18	511	1.4−	1.0−	1998 10 29	704	0.2−	1.1+	2000 04 10	704	0.7−	0.4+
1991 01 18	046	(4.5+	1.1−)	1998 10 29	704	1.5−	1.3+	2000 04 10	704	(0.7+	2.1+)
1991 01 18	046	1.1+	0.4−	1998 10 29	704	1.9−	1.1+	2000 04 10	704	0.2+	0.8+
1991 01 19	046	(3.7+	3.7−)	1998 10 29	704	(2.1−	1.1+)	2000 04 10	704	0.5+	0.8+
1991 01 19	046	(2.1+	3.9−)	1998 10 29	704	1.3−	1.1+	2000 04 10	704	0.1+	1.3+
1991 02 07	675	(3.0−	0.6+)	1998 11 06	120	0.7−	0.6+	2000 04 10	704	0.8+	0.8+
1991 02 07	675	0.9−	0.7+	1998 11 06	120	1.2−	0.3+	2000 04 10	704	0.2+	0.7+
1994 12 04	098	1.1+	1.0−	1998 11 09	120	0.0	0.1+	2000 04 10	704	0.6+	0.9+
1994 12 04	098	0.8+	0.6+	1998 11 09	120	0.1−	0.7+	2000 04 10	704	0.4+	1.0+
1994 12 04	098	0.3−	1.5−	1998 11 10	704	1.7+	0.7−				
1994 12 04	098	(2.6+	0.6+)	1998 11 10	704	0.4+	1.7−				

(14354)* 1987 QX₇ = 2000 AB₂₁₂

Discovered 1987 Aug. 21 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 38433)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	221.29592	(2000.0)	P	Q	
<i>n</i>	0.20491072	ω	153.98496	+0.58719606	+0.80808258
<i>a</i>	2.8494405	Ω	151.90056	−0.75895467	+0.56980279
<i>e</i>	0.2395670	<i>i</i>	5.71953	−0.28140468	+0.14942330
<i>P</i>	4.81	<i>H</i>	13.3	<i>G</i>	0.15

Residuals in seconds of arc

1987 08 21	809	1.0+	0.3+	1996 05 15	691	0.5−	0.4−	2000 02 25	703	0.7−	0.4+
1987 08 21	809	0.7+	1.2+	1996 05 15	691	0.5−	0.2−	2000 02 25	703	0.3−	0.2+
1987 08 21	809	0.6+	0.4−	2000 01 05	691	0.0	0.5−	2000 03 03	704	0.1+	0.3+
1987 08 25	809	1.1−	0.7+	2000 01 05	691	0.1+	0.7−	2000 03 03	704	0.1−	0.0
1987 08 25	809	0.9−	1.0+	2000 01 05	691	0.1+	0.5−	2000 03 03	704	0.1+	0.3+
1987 08 25	809	0.0	0.7+	2000 01 08	691	0.4−	0.8−	2000 03 03	704	0.1−	0.0
1987 08 26	809	0.8−	1.3−	2000 01 08	691	0.4−	0.8−	2000 03 03	704	0.6−	0.4−
1987 08 26	809	0.8−	0.8−	2000 01 08	691	0.5−	0.8−	2000 03 05	704	0.7+	0.0
1987 08 27	809	0.2+	0.4+	2000 02 04	704	0.3+	1.1+	2000 03 05	704	0.9+	0.3+
1987 08 27	809	0.1+	0.1−	2000 02 04	704	1.2+	0.2+	2000 03 05	704	0.2−	0.3+
1987 08 27	809	1.2+	0.6+	2000 02 04	704	1.0+	0.7−	2000 03 05	704	0.1+	0.4+
1992 09 03	095	(0.3+	2.1+)	2000 02 04	704	0.8+	1.8+	2000 03 11	704	0.4+	0.2+
1992 09 03	095	0.1+	1.5−	2000 02 04	704	0.2+	0.2−	2000 03 11	704	0.0	0.2+
1995 03 01	691	(2.4+	7.0−)	2000 02 11	704	0.8+	0.3+	2000 03 11	704	0.6−	0.4−
1995 03 01	691	1.0−	0.6−	2000 02 11	704	0.5−	0.1−	2000 03 11	704	0.3+	0.6+
1995 03 01	691	0.8−	0.6−	2000 02 11	704	0.6+	0.1+	2000 03 11	704	0.6−	0.1+
1996 03 27	691	0.2+	0.3−	2000 02 11	704	0.8+	0.6−	2000 03 11	699	0.0	0.7+
1996 03 27	691	0.1+	0.1−	2000 02 11	704	0.4+	0.4+	2000 03 11	699	0.7+	0.6+
1996 03 27	691	0.0	0.2−	2000 02 25	703	0.5+	0.1−	2000 03 11	699	1.3−	0.7+
1996 05 15	691	0.5−	0.4−	2000 02 25	703	0.2+	0.3−	2000 03 11	699	1.0−	0.1+

(14355)* 1987 SL₅ = 1989 GK₃ = 1998 SH₁₀₈

Discovered 1987 Sept. 30 by P. Jensen at Brorfelde.

Id. G. V. Williams (*MPC* 32919), A. Doppler (*MPC* 35279)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

|--|--|--|

1989 04 02	809	1.7−	0.1−	1998 10 28	704	0.2+	0.9−	2000 03 14	704	0.2+	0.3+
1989 04 02	809	1.7−	0.6+	1998 10 28	704	0.2−	0.7−	2000 03 14	704	0.8+	0.5+
1996 03 19	691	0.2−	0.5−	1998 10 28	704	0.1−	0.7−	2000 03 14	704	0.2+	0.6+
1996 03 19	691	0.3−	0.5−	1998 10 28	704	0.5−	0.7−	2000 04 07	704	0.3+	0.4+
1996 03 19	691	0.4+	0.7−	1998 10 29	704	0.2−	0.2+	2000 04 07	704	0.1+	0.0
1998 08 20	699	1.2+	0.4+	1998 10 29	704	0.5−	0.6+	2000 04 07	704	0.4+	1.0+
1998 08 20	699	0.1+	0.4−	1998 10 29	704	0.2−	0.1+	2000 04 07	704	0.7+	0.2−
1998 08 20	699	0.3+	0.0	1998 10 29	704	0.0	0.2−	2000 04 08	704	0.9+	0.1−
1998 09 17	699	0.1+	0.1−	1998 10 29	704	0.3−	0.6+	2000 04 08	704	0.0	0.5+
1998 09 17	699	0.7−	0.2+	1998 11 10	699	0.4−	0.3+	2000 04 08	704	1.1+	0.5+
1998 09 17	699	0.6−	0.1+	1998 11 10	699	0.1+	0.5+	2000 04 08	704	(3.0+	0.1+)
1998 09 26	704	0.4+	0.5−	1998 11 10	699	0.4+	0.0				
1998 09 26	704	0.4+	0.3−	1998 12 09	699	1.2−	1.5+				

(14356)* 1987 SF₆ = 1999 XZ₂₁₄

Discovered 1987 Sept. 21 by Z. Vávrová at Kleť.

Id. G. V. Williams (*MPC* 37623)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	97.54019		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.25862121	ω	181.19717	+0.99471487		+0.10193347	
<i>a</i>	2.4398322	Ω	172.91676	−0.09335310		+0.94783415	
<i>e</i>	0.2323970	<i>i</i>	5.73599	−0.04274948		+0.30202649	
<i>P</i>	3.81	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 04	095	(6.3−	6.9+)	1994 06 06	691	0.0	0.4+	2000 01 07	704	0.2+	0.6−
1987 09 17	809	0.2−	0.1+	1998 06 19	704	1.5+	1.0+	2000 01 07	704	0.1+	0.4−
1987 09 17	809	0.2+	0.1+	1998 06 19	704	0.0	0.3−	2000 01 07	704	0.5+	0.8−
1987 09 17	809	1.1+	0.5+	1998 06 19	704	0.8−	0.9−	2000 01 12	046	0.5+	0.1−
1987 09 21	046	(4.3−	1.9+)	1998 06 19	704	(0.6+	2.8+)	2000 01 12	046	0.5+	0.5+
1987 09 21	046	2.1−	1.3+	1998 06 25	704	(2.0+	1.1+)	2000 01 12	046	0.3−	0.2+
1987 09 23	809	0.2−	0.2−	1998 06 25	704	0.4+	0.9−	2000 01 12	046	0.0	0.3+
1987 09 23	809	0.2+	0.3−	1998 06 25	704	0.9−	0.5−	2000 01 12	046	0.2+	0.2+
1987 09 23	809	0.4+	0.3−	1998 06 25	704	(4.0−	0.1−)	2000 01 12	046	0.2+	0.3+
1987 09 24	809	0.3+	0.3+	1999 12 14	704	0.7−	0.3−	2000 01 14	046	0.0	0.1+
1987 09 24	809	0.8+	0.4+	1999 12 14	704	0.6−	0.1+	2000 01 14	046	0.1+	0.3+
1987 09 24	809	1.0+	0.1+	1999 12 14	704	0.9+	0.5−	2000 01 14	046	0.3−	0.3+
1987 09 24	095	1.1−	1.5+	1999 12 14	704	0.0	0.6−	2000 01 28	704	0.3+	0.6+
1987 09 26	809	0.6−	0.0	1999 12 14	704	0.2+	0.3−	2000 01 28	704	0.3−	0.2+
1987 09 26	809	0.3−	0.1−	1999 12 15	704	0.5−	1.0−	2000 01 28	704	0.4+	1.6+
1987 09 26	809	0.5−	0.2+	1999 12 15	704	0.2+	0.7+	2000 01 29	704	0.1+	0.4+
1987 09 27	095	1.2−	0.7+	1999 12 15	704	0.2+	0.1+	2000 01 29	704	0.1+	0.5+
1987 10 01	809	0.6+	0.7−	1999 12 15	704	0.3−	0.1+	2000 01 29	704	0.4+	0.4−
1987 10 01	809	0.6+	0.5−	1999 12 15	704	0.2+	0.1−	2000 01 29	704	0.3−	0.1−
1987 10 01	809	0.2+	0.6−	2000 01 05	704	1.5−	0.1+	2000 01 29	704	0.1+	0.8−
1987 10 02	809	0.0	0.6−	2000 01 05	704	0.2+	0.8−	2000 02 02	704	0.6−	0.1+
1987 10 02	809	0.2+	0.7−	2000 01 05	704	0.4−	0.1−	2000 02 02	704	0.0	0.4+
1987 10 02	809	0.5+	0.6−	2000 01 05	704	0.3−	0.5−	2000 02 02	704	1.1+	0.0
1994 06 06	691	0.1−	0.3+	2000 01 05	704	0.6−	0.0	2000 02 02	704	0.1−	0.7+
1994 06 06	691	0.1+	0.4+	2000 01 07	704	0.0	0.3−				

(14357)* 1987 UR = 1961 VD

Discovered 1987 Oct. 22 by K. Suzuki and T. Urata at Toyota.

Id. T. Urata (*MPC* 32658)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	118.08502		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18812525	ω	19.69189	+0.72501348		−0.68742986	
<i>a</i>	3.0165092	Ω	23.90039	+0.61705484		+0.62099723	
<i>e</i>	0.2670496	<i>i</i>	6.00363	+0.30593917		+0.37656689	
<i>P</i>	5.24	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1961 11 04	760	0.6−	0.7+	1999 02 03	886	(0.1−	2.3−)	2000 04 02	699	0.3−	0.1−
1961 11 04	760	0.0	0.8+	1999 02 03	886	0.3−	0.6+	2000 04 02	699	0.4−	0.5+
1961 11 10	760	0.7−	0.1−	1999 02 05	888	0.1−	0.2−	2000 04 02	699	0.2−	0.1+

1961 11 10	760	0.9+	0.5−	1999 02 05	888	0.1−	0.3−	2000 04 02	699	0.5−	0.4+
1987 10 17	675	(2.7−	2.9+)	2000 03 08	704	0.3+	1.9−	2000 04 03	699	0.3−	0.1−
1987 10 17	675	2.1−	2.2+	2000 03 08	704	0.5−	0.5−	2000 04 03	699	0.7−	0.3+
1987 10 22	881	1.3−	0.3−	2000 03 08	704	0.8+	0.3−	2000 04 03	699	0.2−	0.3−
1987 10 22	881	0.2−	0.1−	2000 03 08	704	(0.2+	2.2−)	2000 04 03	699	0.2−	0.5+
1987 10 27	881	(2.7+	0.1+)	2000 03 08	704	0.2−	0.6−	2000 04 04	704	0.8+	0.2−
1987 10 27	881	2.0+	0.3+	2000 03 10	704	0.1+	0.4+	2000 04 04	704	0.0	1.5+
1987 10 28	881	0.5+	0.2+	2000 03 10	704	0.0	0.3+	2000 04 04	704	0.4+	0.5−
1987 10 28	888	0.0	0.8+	2000 03 10	704	0.3−	0.8+	2000 04 04	704	0.5+	0.3−
1987 10 28	888	0.9−	1.1+	2000 03 10	704	0.3−	0.3+	2000 04 05	704	0.6+	0.1+
1987 10 28	888	0.6+	0.5+	2000 03 10	704	0.2−	0.8+	2000 04 05	704	0.2+	0.0
1987 10 28	888	0.2−	0.1+	2000 03 11	704	0.3−	0.5+	2000 04 05	704	0.1+	0.1−
1987 11 13	385	0.5−	0.1+	2000 03 11	704	0.0	0.5+	2000 04 05	704	0.1+	0.2−
1987 11 13	385	0.9−	0.4−	2000 03 11	704	0.1+	0.4+	2000 04 05	704	0.3+	0.3−
1987 11 24	699	0.0	0.1+	2000 03 11	704	0.6+	0.7+	2000 04 06	704	0.2+	0.2+
1987 11 24	699	0.3+	0.2+	2000 03 12	691	0.2−	0.2−	2000 04 06	704	0.1−	0.4+
1987 12 01	689	0.5+	0.5−	2000 03 12	691	0.1−	0.3−	2000 04 06	704	0.0	0.0
1987 12 11	888	0.1−	0.1−	2000 03 12	691	0.1−	0.8−	2000 04 06	704	0.1−	0.3−
1987 12 17	704	0.1+	0.4−	2000 03 14	691	0.6−	0.6−	2000 04 07	699	0.9+	0.7+
1987 12 17	704	0.5+	0.0	2000 03 14	691	0.7−	0.6−	2000 04 07	699	0.1−	0.7+
1987 12 17	704	0.7−	0.5−	2000 03 14	691	0.5−	0.5−	2000 04 07	699	0.7+	0.8+
1987 12 17	704	0.6+	0.2−	2000 03 27	699	0.3+	0.3+	2000 04 07	699	1.0+	0.4+
1987 12 17	704	(3.0−	0.1+)	2000 03 27	699	0.3+	0.0	2000 04 10	704	0.1−	0.3+
1987 12 25	888	0.2+	0.8−	2000 03 27	699	0.0	0.4+	2000 04 10	704	0.4+	0.3+
1987 12 25	888	0.3+	0.8−	2000 03 27	699	0.5+	0.6+	2000 04 10	704	0.1−	0.5+
1999 01 08	886	0.9−	0.4−	2000 03 27	888	0.2+	0.4−	2000 04 10	704	0.5−	0.0
1999 01 08	886	0.8+	1.0+	2000 03 27	888	0.2+	0.4−	2000 04 10	704	0.4+	0.4+

(14358)* 1988 BY₃ = 1978 RC₁₅ = 1990 SY₁₃

Discovered 1988 Jan. 19 by H. Debehogne at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 17821)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	31.80932		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.24702023	ω	297.91004	−0.21191568		−0.97672751	
<i>a</i>	2.5156354	Ω	164.21992	+0.93397408		−0.21237647	
<i>e</i>	0.1095514	<i>i</i>	6.98952	+0.28772237		−0.02999335	
<i>P</i>	3.99	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1978 09 06	809	0.6+	1.0+	1998 09 27	704	0.9+	0.5−	2000 02 01	703	0.4−	0.5+
1988 01 19	809	0.6−	1.9−	1998 09 27	704	0.2+	0.7+	2000 02 01	703	0.0	0.2+
1988 01 19	809	0.3−	2.0−	1998 09 27	704	0.6−	0.2−	2000 02 01	703	0.3−	0.7+
1988 01 19	809	0.2+	2.0−	1998 09 27	704	0.3−	0.4+	2000 02 02	704	0.1−	0.1+
1988 01 19	809	0.3−	1.7−	1998 09 28	670	0.1+	0.6+	2000 02 02	704	0.1+	0.6+
1988 01 19	809	0.2−	1.5−	1998 09 28	670	0.1+	0.4+	2000 02 02	704	0.1+	0.5+
1988 01 19	809	0.2−	1.2−	1998 10 12	699	0.3−	0.2+	2000 02 02	704	0.1+	0.9+
1988 01 20	809	0.6−	0.5−	1998 10 12	699	0.6−	1.0−	2000 02 02	704	0.0	0.7+
1988 01 20	809	0.4−	0.1−	1998 10 12	699	0.0	0.2+	2000 02 04	704	0.1−	0.4+
1988 01 21	809	0.2−	0.3−	1998 10 27	747	0.2−	0.2+	2000 02 04	704	0.3+	0.5+
1988 01 21	809	0.3+	0.7−	1998 10 27	747	0.5+	0.0	2000 02 04	704	0.4−	0.3+
1988 01 23	809	0.2+	0.2+	1998 10 27	747	0.7+	0.4+	2000 02 04	704	0.1−	0.6+
1988 01 23	809	0.1+	0.5+	1998 10 27	747	0.5+	0.4+	2000 02 04	704	0.4+	1.0+
1988 01 25	809	0.5+	0.1−	1998 10 27	747	0.3+	0.6+	2000 02 12	704	0.4−	0.6−
1988 01 25	809	0.8+	0.2+	1999 10 20	704	0.9−	0.5+	2000 02 12	704	0.4−	0.5+
1988 01 27	809	0.1−	0.7+	1999 10 20	704	0.3−	0.8+	2000 02 12	704	0.2+	1.4+
1988 01 27	809	0.3+	0.6+	1999 10 20	704	0.0	1.3−	2000 02 12	704	0.0	0.8+
1988 01 29	809	0.1−	0.2−	1999 10 20	704	1.0−	0.2−	2000 02 12	704	1.0−	0.8+
1988 01 29	809	0.3+	0.2−	1999 11 08	703	1.4+	0.5+	2000 02 27	703	0.2+	0.4+
1990 09 23	809	1.2−	0.6−	1999 11 08	703	0.3+	0.8+	2000 02 27	703	0.1+	0.6+
1990 09 23	809	0.9−	0.6−	1999 11 08	703	0.3+	0.3+	2000 02 27	703	0.1−	0.5+
1990 09 23	809	0.6−	0.5−	1999 11 08	703	0.3+	0.1−	2000 02 27	703	0.2+	0.3+
1990 09 24	809	0.3−	1.2−	1999 11 17	704	0.0	0.7+	2000 03 05	704	0.0	0.3+
1990 09 24	809	0.2+	1.1−	1999 11 17	704	1.3+	0.3+	2000 03 05	704	0.0	0.5+
1990 09 24	809	0.4+	1.2−	1999 11 17	704	0.9+	0.1−	2000 03 05	704	0.0	0.3+
1992 01 02	801	0.6−	0.0	1999 11 17	704	0.3+	0.3−	2000 03 05	704	0.2−	0.3+

2000 APR. 18

M.P.C. 39807

1992 01 02	801	0.4−	0.7−	1999 11 17	704	0.5+	0.4+	2000 03 05	704	0.5−	0.3+
1994 10 01	675	(0.8+	2.4−)	1999 12 05	704	0.3+	0.2+	2000 03 26	699	0.1−	1.2+
1996 02 12	721	0.6+	0.6−	1999 12 05	704	0.1−	0.0	2000 03 26	699	0.2−	1.0+
1996 02 12	721	0.6−	0.4+	1999 12 05	704	0.6+	0.2+	2000 03 26	699	0.6−	0.9+
1998 09 18	704	0.5+	0.9+	1999 12 05	704	0.4+	0.4−	2000 03 26	699	0.4−	1.3+
1998 09 18	704	1.8+	0.8+	1999 12 05	704	1.2+	0.8−	2000 03 30	608	0.5−	0.1+
1998 09 18	704	0.7+	0.3+	2000 01 05	704	0.2+	0.5−	2000 03 30	608	0.8−	0.5−
1998 09 18	704	(1.0−	2.2+)	2000 01 05	704	0.1+	0.4−	2000 03 30	608	0.8−	0.6−
1998 09 18	704	0.3−	1.9+	2000 01 05	704	0.2−	0.5−	2000 04 04	704	1.7+	1.5+
1998 09 25	704	0.0	0.1−	2000 01 05	704	0.2−	1.1−	2000 04 04	704	1.0+	0.4+
1998 09 25	704	1.4−	1.1+	2000 01 05	704	0.5−	0.7−	2000 04 04	704	1.2+	0.3+
1998 09 25	704	0.8−	0.7+	2000 01 07	704	0.1−	0.5−	2000 04 08	704	0.3−	0.3+
1998 09 25	704	(2.1−	0.3+)	2000 01 07	704	0.1+	0.0	2000 04 08	704	0.4+	0.6+
1998 09 25	704	1.4−	1.8+	2000 01 07	704	0.1+	0.2−	2000 04 08	704	0.4+	0.7+
1998 09 27	747	0.2−	0.1−	2000 01 07	704	0.0	0.3−	2000 04 08	704	1.0+	0.1−
1998 09 27	747	0.1+	0.3+	2000 01 07	704	0.0	0.5−				
1998 09 27	704	0.1−	0.5+	2000 02 01	703	0.1−	0.2−				

(14359)* 1988 CU₁ = 1992 CR₁ = 1996 FH₂

Discovered 1988 Feb. 11 by E. W. Elst at the European Southern Observatory.

Id. K. Kinoshita (*MPC* 27102)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	14.78234		(2000.0)	P	Q
n	0.25858770	ω	198.63405	−0.99939832	−0.03317531
a	2.4400429	Ω	339.45687	+0.03434369	−0.90576556
e	0.1202919	i	1.65237	+0.00484764	−0.42247858
P	3.81	H	14.6	G 0.15	U 2

Residuals in seconds of arc

1988 01 19	071	0.8+	1.5+	1997 07 16	910	0.5+	0.5−	2000 03 01	703	0.8−	0.3−
1988 01 19	071	(5.4+	2.8+)	1997 07 16	910	0.4+	0.3−	2000 03 01	703	1.0−	0.2−
1988 02 11	809	1.0+	1.1+	1997 07 16	910	0.4+	0.1−	2000 03 01	703	0.2−	1.3+
1988 02 21	809	0.1+	1.9+	1998 11 18	704	1.5+	0.3+	2000 03 01	703	1.2−	0.8+
1988 02 21	809	0.2+	1.4+	1998 11 18	704	0.1+	1.1−	2000 04 06	704	0.5+	0.5+
1988 02 21	809	1.0−	1.7+	1998 11 18	704	0.2−	1.3−	2000 04 06	704	0.1−	0.7+
1988 02 23	809	0.5−	0.2−	1998 11 24	747	0.8−	0.2−	2000 04 06	704	0.3−	0.3+
1988 02 23	809	0.7−	0.2+	1998 11 24	747	0.9−	0.1+	2000 04 06	704	0.2+	0.6+
1988 02 23	809	1.3−	0.1−	1998 11 24	747	1.0−	0.5−	2000 04 06	704	0.1+	1.0+
1992 02 12	303	0.8+	1.6−	1998 11 24	704	0.0	0.3−	2000 04 08	704	0.5+	0.1+
1992 02 13	303	0.9−	1.5−	1998 11 24	704	0.8+	0.2−	2000 04 08	704	0.5+	0.3−
1996 03 21	566	0.0	0.7−	1998 11 24	704	1.9+	1.8−	2000 04 08	704	0.5−	0.9−
1996 03 21	566	0.2+	0.7−	1998 11 24	704	0.9+	1.4−	2000 04 08	704	0.8−	0.6−
1996 03 21	566	0.0	0.6−	1998 11 24	704	(1.7+	2.5−)	2000 04 08	704	0.4−	0.3−
1996 03 22	566	0.4+	1.2−	1998 11 25	699	0.6−	0.2+	2000 04 11	608	0.1−	0.5−
1996 03 22	566	0.5+	1.4−	1998 11 25	699	0.1+	0.3−	2000 04 11	608	0.0	0.4−
1996 03 22	566	0.2+	1.2−	1998 11 25	699	0.2−	0.2+	2000 04 11	608	0.5−	0.6−

(14360)* 1988 CV₄ = 1996 RS₂₃

Discovered 1988 Feb. 13 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 28071)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	232.06882		(2000.0)	P	Q
n	0.17424124	ω	146.09559	+0.84969722	+0.52713377
a	3.1746956	Ω	182.20046	−0.52592892	+0.84568789
e	0.1727738	i	18.25259	−0.03759522	+0.08331857
P	5.66	H	12.9	G 0.15	U 1

Residuals in seconds of arc

1988 02 13	809	0.4+	1.8−	1999 02 16	704	0.7−	0.2+	2000 04 04	704	1.3+	0.2+
1988 02 15	809	1.2+	0.4+	1999 02 16	704	(3.4−	1.4+)	2000 04 04	704	1.2−	1.1−
1988 02 16	809	0.3+	0.2−	1999 02 16	704	0.1−	1.3−	2000 04 06	699	0.6−	0.3+
1988 02 16	809	0.4+	0.1−	1999 02 16	704	0.3+	1.0−	2000 04 06	699	1.0−	0.4+
1988 02 16	809	0.1−	0.2−	1999 02 21	699	0.2+	0.3−	2000 04 06	699	0.7−	0.2−

1988 02 21	809	0.1−	0.1−	1999 02 21	699	0.5+	0.9+	2000 04 06	699	0.0	0.6+
1988 02 21	809	0.9−	0.7+	1999 02 21	699	1.0+	0.6+	2000 04 07	699	0.2−	0.4+
1988 02 21	809	0.6−	0.3+	2000 03 01	703	0.3+	1.1+	2000 04 07	699	0.4−	0.1+
1988 02 23	809	0.2−	1.6−	2000 03 01	703	0.8−	0.7−	2000 04 07	699	0.5−	0.0
1988 02 23	809	0.1−	1.7−	2000 03 01	703	0.2−	0.0	2000 04 07	704	0.1+	0.1−
1988 02 23	809	0.4−	1.6−	2000 03 01	703	(2.4+	0.5−)	2000 04 07	704	0.0	0.1−
1995 04 25	691	0.4−	1.2−	2000 03 08	704	0.8+	0.2+	2000 04 07	699	0.4−	0.3+
1995 04 25	691	0.3−	1.1−	2000 03 08	704	1.4+	0.5+	2000 04 07	704	0.2−	0.6−
1995 04 25	691	0.5−	1.2−	2000 03 08	704	0.4+	0.6+	2000 04 07	704	0.2−	0.8−
1996 09 05	693	0.5+	1.5−	2000 03 08	704	0.2+	0.7+	2000 04 07	704	0.9−	0.2−
1996 09 05	693	1.1−	0.0	2000 03 10	704	0.8+	0.1+	2000 04 08	704	0.1−	0.2+
1996 09 06	693	0.2−	1.1−	2000 03 10	704	0.8+	0.2+	2000 04 08	704	0.2+	0.1−
1996 09 06	693	0.8−	1.4−	2000 03 10	704	0.3+	1.1+	2000 04 08	704	0.1−	0.1+
1996 10 03	046	0.2+	0.5+	2000 03 10	704	0.5+	0.1−	2000 04 08	704	0.4−	0.1+
1996 10 03	046	0.2+	0.5+	2000 03 10	704	0.9+	1.2+	2000 04 08	704	0.0	0.3−
1996 10 03	046	0.2+	0.6+	2000 03 27	699	0.3+	0.7+	2000 04 10	704	0.2−	0.1−
1996 10 03	046	0.1+	0.7+	2000 03 27	699	0.3+	0.3+	2000 04 10	704	0.3−	0.4+
1996 10 03	046	0.3−	0.7+	2000 03 27	699	0.1+	0.3+	2000 04 10	704	0.4+	1.2+
1996 10 03	046	0.0	0.5+	2000 03 27	699	0.1+	0.2+	2000 04 10	704	0.2−	0.2+
1996 10 11	046	0.3+	0.5+	2000 03 29	704	0.4+	0.2+	2000 04 10	704	0.0	0.4+
1996 10 11	046	0.7+	0.5+	2000 03 29	704	0.0	0.0	2000 04 13	704	0.2+	0.1+
1996 10 11	046	0.4+	0.4+	2000 03 29	704	0.0	0.2−	2000 04 13	704	1.1+	0.0
1996 10 11	046	0.2+	0.5+	2000 03 29	704	0.3+	0.2−	2000 04 13	704	0.3+	0.0
1996 10 11	046	0.1+	0.7+	2000 03 29	704	0.1+	0.3−	2000 04 13	704	0.2+	0.5+
1999 02 12	704	0.5+	0.7+	2000 04 02	699	0.5−	0.6+	2000 04 13	704	0.1−	0.9−
1999 02 12	704	0.7−	1.1+	2000 04 02	699	0.8−	0.5+	2000 04 13	704	0.7−	1.3−
1999 02 12	704	0.1+	0.7+	2000 04 02	699	0.5−	0.3+	2000 04 13	704	0.5+	0.3−
1999 02 12	704	(1.2+	2.4+)	2000 04 02	699	0.8−	0.4+	2000 04 13	704	0.1−	0.7+
1999 02 12	704	1.4−	0.8+	2000 04 04	704	(3.9+	1.0+)				
1999 02 16	704	0.3−	0.7−	2000 04 04	704	1.9+	0.9+				

(14361)* 1988 DE = 1990 UY₁₁

Discovered 1988 Feb. 17 at the Osservatorio S. Vittore, Bologna.

Id. A. Doppler (*MPC* 34486)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	311.34384		(2000.0)	P	Q
n	0.23774508	ω	174.30954	−0.97557332	−0.21783990
a	2.5806455	Ω	352.91557	+0.19140173	−0.77963374
e	0.0968986	i	13.27876	+0.10780572	−0.58712605
P	4.15	H	13.1	G 0.15	U 2

Residuals in seconds of arc

1988 02 17	552	0.6+	1.1+	1998 09 18	560	0.1+	0.5+	1999 12 13	704	0.1−	0.9+
1988 02 17	552	0.8+	0.9+	1998 09 18	560	0.2−	0.6−	1999 12 13	704	0.1−	0.9+
1988 02 21	552	0.4+	0.5−	1998 09 19	552	0.0	0.2−	1999 12 17	610	0.1+	0.7−
1988 02 21	552	1.2−	0.9−	1998 09 19	552	0.2−	0.4−	1999 12 17	610	0.1+	0.6−
1988 02 22	552	1.2+	0.4−	1998 09 19	552	0.4−	0.4+	1999 12 17	610	0.1+	0.6−
1988 02 22	552	0.4−	1.2+	1998 09 22	560	0.1+	0.1+	1999 12 17	610	0.1+	0.7−
1988 03 10	552	0.6−	1.9+	1998 09 22	560	0.0	0.6+	1999 12 17	610	0.2+	0.6−
1988 03 10	552	1.5−	0.9+	1998 09 22	560	0.8−	1.1+	1999 12 30	704	0.0	0.5+
1988 03 17	675	0.4+	1.1+	1998 09 22	560	0.4+	1.4+	1999 12 30	704	0.0	0.0
1988 03 17	552	0.5+	1.1−	1998 10 10	552	0.6−	0.3−	1999 12 30	704	0.1+	0.0
1988 03 17	552	0.8+	1.1−	1998 10 10	552	0.3−	0.5−	1999 12 30	704	0.2+	0.2−
1988 03 20	552	0.4+	0.5−	1998 10 20	120	0.5+	0.8−	1999 12 30	704	0.1+	0.4−
1988 03 20	552	0.3+	1.8−	1998 10 20	120	0.4+	0.1−	2000 01 21	704	0.7−	1.2+
1988 03 21	675	0.2−	0.1−	1998 10 20	120	0.0	0.3+	2000 01 21	704	0.1+	0.0
1988 03 21	675	1.1−	0.3−	1998 10 20	120	0.4+	0.3−	2000 01 21	704	0.0	0.0
1988 03 22	675	0.2+	0.3+	1998 10 24	552	0.1−	0.6−	2000 01 21	704	0.2+	0.3−
1988 03 22	675	0.5−	0.4−	1998 10 24	552	0.6−	0.2+	2000 01 21	704	0.3−	0.7−
1990 10 23	095	0.8+	0.1+	1998 11 10	699	0.2−	0.2+	2000 01 26	552	0.0	0.0
1998 09 14	704	1.1+	0.9−	1998 11 10	699	0.2+	0.2−	2000 01 26	552	0.0	0.3+
1998 09 14	704	0.7−	1.9+	1998 11 10	699	0.9−	0.1−	2000 01 27	704	0.0	0.2+
1998 09 14	704	1.0+	0.2+	1998 12 09	704	0.5−	2.0−	2000 01 27	704	1.6+	0.2+
1998 09 14	704	0.6−	0.8+	1998 12 09	704	0.7−	1.3−	2000 01 27	704	0.4+	0.8−
1998 09 15	560	0.4−	0.1−	1998 12 09	704	0.8+	0.8−	2000 02 26	704	0.4+	1.0+
1998 09 15	560	1.0−	0.3−	1998 12 09	704	0.8−	0.2−	2000 02 26	704	0.1+	0.2−
1998 09 15	560	0.4−	0.1−	1998 12 09	704	0.0	0.4+	2000 02 26	704	0.1−	0.3+

1998 09 18	704	(2.1− 3.6+)	1999 11 01	704	0.5− 1.8−	2000 02 26	704	0.0	0.0
1998 09 18	704	0.5+ 0.2+	1999 11 01	704	1.1− 0.4−	2000 02 26	704	0.2+ 0.6+	
1998 09 18	704	0.4+ 1.1+	1999 11 01	704	0.7− 0.0	2000 03 27	704	0.1− 0.5+	
1998 09 18	704	1.3+ 0.3+	1999 11 01	704	0.4− 1.0−	2000 03 27	704	0.1+ 0.1+	
1998 09 18	704	0.1+ 0.8+	1999 12 13	704	0.2− 0.3+	2000 03 27	704	0.0	0.3+
1998 09 18	552	0.2− 0.7−	1999 12 13	704	0.3− 0.5+	2000 03 27	704	0.2+ 0.1−	
1998 09 18	552	0.1− 0.1−	1999 12 13	704	0.0	1.0+			

(14362)* 1988 MH = 1951 RE₁ = 1955 QP = 1998 XO₂₄

Discovered 1988 June 16 by E. F. Helin at Palomar.

Id. B. G. Marsden (*MPC* 33475), S. Nakano (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	230.36653		(2000.0)	P	Q				
<i>n</i>	0.23577506	<i>ω</i>	36.29741	+0.84370834	+0.49493679				
<i>a</i>	2.5950006	<i>Ω</i>	292.76795	−0.53012400	+0.70735130				
<i>e</i>	0.1933707	<i>i</i>	13.02605	−0.08440843	+0.50466991				
<i>P</i>	4.18	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1951 09 01	094(59.7− 56.9+)	X	1998 12 16	691	1.0− 0.0	1999 01 18	704	0.1− 0.1+	
1951 09 02	094(22.8− 47.1+)	X	1998 12 16	691	0.9− 0.3−	1999 01 18	704	0.4− 0.4+	
1951 09 07	094(19.5− 54.1+)	X	1998 12 21	411	0.2+ 0.1−	1999 01 18	704	0.7− 0.1−	
1955 08 23	760(44.8− 89.7+)	X	1998 12 21	411	0.6− 0.6−	1999 01 18	704	0.5− 0.3−	
1988 06 16	675 1.3+ 1.9−		1998 12 22	411	0.5− 0.3−	1999 01 21	120	0.1− 0.0	
1988 06 19	675 1.7− 2.4−		1998 12 22	411	0.0	0.0	1999 01 21	120	0.2− 0.0
1988 07 12	675 0.2+ 2.2−		1998 12 23	704	1.2+ 1.8−	1999 01 21	120	0.0	0.1+
1988 07 15	675 (2.5+ 3.0−)		1998 12 23	704	0.9+ 1.8−	1999 01 24	120	0.4− 0.1+	
1995 02 03	033 1.5− 0.6−		1998 12 23	704	0.8+ 0.8−	1999 01 24	120	0.1− 0.2+	
1995 02 03	033 0.8− 0.5+		1998 12 23	704	1.4+ 0.5+	1999 01 24	120	0.1+ 0.1+	
1997 09 30	566 0.2− 0.5−		1998 12 23	704	(2.6− 0.0)	1999 04 07	704	0.5− 0.1+	
1997 09 30	566 0.2+ 0.7−		1998 12 23	120	0.1+ 0.1−	1999 04 07	704	0.2+ 1.1−	
1997 09 30	566 0.7+ 0.7−		1998 12 23	120	0.0	0.4−	1999 04 07	704	0.5+ 0.6−
1998 10 11	699 1.2+ 0.7+		1998 12 25	120	0.6− 0.8−	1999 04 07	704	0.2− 0.1−	
1998 10 11	699 0.6− 0.0		1998 12 25	120	0.3− 0.6−	2000 01 28	704	0.2+ 0.0	
1998 10 11	699 1.0− 1.3+		1998 12 25	120	0.0	0.6−	2000 01 28	704	0.1− 0.4+
1998 11 15	699 0.2− 1.8+		1998 12 26	120	0.5− 0.6−	2000 01 28	704	0.2+ 0.2+	
1998 11 15	699 0.7+ 1.4+		1998 12 27	120	0.7− 0.0	2000 01 28	704	0.7+ 0.6+	
1998 12 01	699 1.5+ 0.7+		1999 01 08	691	0.5− 0.3−	2000 03 13	704	0.3− 0.5+	
1998 12 01	699 0.3− 0.2−		1999 01 08	691	0.5− 0.4−	2000 03 13	704	0.0	0.2+
1998 12 01	699 0.6+ 0.4−		1999 01 08	691	0.2− 0.4−	2000 03 13	704	0.3− 0.2+	
1998 12 11	691 0.5− 0.2−		1999 01 15	120	0.7+ 0.3−	2000 03 13	704	0.5− 0.5−	
1998 12 11	691 0.4− 0.3−		1999 01 15	120	0.5+ 0.3−	2000 03 13	704	0.5− 0.2−	
1998 12 11	691 0.3− 0.4−		1999 01 15	120	0.7+ 0.2−	2000 04 06	704	0.0	0.1+
1998 12 16	699 0.8+ 0.2−		1999 01 16	120	0.2− 0.3+	2000 04 06	704	0.5+ 0.5+	
1998 12 16	699 0.9+ 0.2+		1999 01 16	120	0.1+ 0.2+	2000 04 06	704	0.6+ 0.4+	
1998 12 16	699 0.8+ 0.2+		1999 01 17	120	0.3− 0.3+	2000 04 06	704	0.7+ 0.1+	
1998 12 16	691 0.9− 0.4−		1999 01 18	704	0.3+ 0.1−	2000 04 06	704	0.4+ 1.1+	

(14363)* 1988 RB₂ = 1999 XU₁₅₆

Discovered 1988 Sept. 8 by A. Mrkos at Kleť.

Id. G. V. Williams (*MPC* 37623)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	115.51941		(2000.0)	P	Q				
<i>n</i>	0.28294231	<i>ω</i>	173.35933	+0.83410283	+0.55119143				
<i>a</i>	2.2979335	<i>Ω</i>	153.15707	−0.50825223	+0.78307798				
<i>e</i>	0.2054933	<i>i</i>	2.72384	−0.21436448	+0.28805708				
<i>P</i>	3.48	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1988 09 08	046	0.7− 1.4−	1998 05 22	699	0.5− 0.6+	1999 12 08	704	0.1− 0.2−	
1988 09 08	046	0.5+ 1.4−	1998 05 22	699	1.1− 1.3−	1999 12 14	704	1.0+ 0.4−	
1988 09 09	046	0.1− 2.2−	1998 06 16	704	1.2+ 0.2−	1999 12 14	704	0.0	0.0
1988 09 09	046	0.4+ 1.4−	1998 06 16	704	0.9+ 1.0−	1999 12 14	704	0.1+ 0.6−	
1988 09 10	046	1.1+ 0.4−	1998 06 16	704	0.1+ 1.8−	1999 12 14	704	0.0	0.0
1988 09 10	046	0.9− 2.3−	1998 06 16	704	0.0	0.1+	1999 12 14	704	0.1− 0.1−

1988 09 14	807	0.5+ 1.1+	1998 06 16	704	0.9− 0.2+	2000 01 03	046	0.1− 0.2+	
1988 09 15	807	0.6+ 1.2+	1998 06 18	704	1.1+ 0.7+	2000 01 03	046	0.3+ 0.3+	
1988 10 06	807	0.9+ 0.2+	1998 06 18	704	0.2+ 0.2+	2000 01 03	046	0.2+ 0.0	
1988 10 07	807	0.2− 0.6−	1998 06 18	704	0.7+ 0.2−	2000 01 03	046	0.2+ 0.5−	
1988 11 04	807	0.2+ 1.1+	1998 06 18	704	(5.2− 1.3−)	2000 01 05	704	0.1− 0.9−	
1988 11 06	807	0.2− 1.2+	1999 11 15	704	0.1− 0.3−	2000 01 05	704	0.4+ 0.3−	
1997 01 10	691	0.5− 1.1−	1999 11 15	704	0.1+ 0.2+	2000 01 05	704	(1.4+ 2.5−)	
1997 01 10	691	0.4− 1.0−	1999 11 15	704	0.2− 0.3−	2000 01 05	704	0.1+ 0.2−	
1997 01 10	691	0.4− 1.2−	1999 11 15	704	0.5+ 1.0−	2000 01 05	704	0.1+ 0.8−	
1998 05 05	699	0.3− 0.7−	1999 11 15	704	0.4− 0.3−	2000 01 06	704	0.5+ 0.3−	
1998 05 05	699	0.2− 0.6−	1999 11 17	704	0.5+ 1.0+	2000 01 06	704	0.2− 0.9−	
1998 05 05	699	1.1− 0.7−	1999 11 17	704	1.0− 0.1−	2000 01 06	704	0.3+ 1.6−	
1998 05 22	704	0.3− 0.4−	1999 11 17	704	0.1+ 0.3−	2000 01 06	704	0.2− 0.8−	
1998 05 22	704	0.7− 0.7−	1999 11 17	704	0.4− 0.4−	2000 01 06	704	0.2+ 0.6−	
1998 05 22	704	0.2− 1.2−	1999 11 17	704	0.6+ 0.5−	2000 01 06	046	0.3+ 0.0	
1998 05 22	704	0.2− 1.4−	1999 12 08	704	0.4+ 0.4−	2000 01 06	046	0.4− 0.1+	
1998 05 22	699	0.6− 0.6−	1999 12 08	704	0.2− 0.4−	2000 01 06	046	0.4− 0.1−	
1998 05 22	704	0.1− 1.0−	1999 12 08	704	1.1− 0.2+				

(14364)* 1988 RM₂ = 2000 AZ₁₆₇

Discovered 1988 Sept. 8 by P. Jensen at Brorfelde.

Id. G. V. Williams (*MPC* 38433)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	112.09312		(2000.0)	P	Q				
<i>n</i>	0.28836814	<i>ω</i>	98.60483	+0.95098352	−0.29642058				
<i>a</i>	2.2690176	<i>Ω</i>	278.67324	+0.23689762	+0.88146782				
<i>e</i>	0.1873029	<i>i</i>	5.11411	+0.19877086	+0.36762660				
<i>P</i>	3.42	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1988 09 08	054	0.2+	0.7+	2000 01 10	704	0.4−	0.5−	2000 02 10	819	0.7−	0.3+
1988 09 08	054	1.1−	0.9−	2000 01 10	704	0.5−	0.8−	2000 02 10	819	0.1−	0.0
1988 09 09	054	0.2+	0.6+	2000 01 10	704	0.3−	0.2−	2000 02 10	819	0.8−	0.1−
1988 09 11	675	0.2+	0.7+	2000 01 10	704	0.6−	0.2−	2000 02 10	819	0.9+	0.2−
1988 09 11	675	2.1−	0.5+	2000 01 11	704	(2.4+	0.1+)	2000 02 10	819	1.3−	0.0
1988 09 16	054	1.5+	0.4+	2000 01 11	704	0.0	0.2−	2000 02 10	819	0.1+	0.6+
1996 12 06	711	1.0+	0.2+	2000 01 11	704	0.3−	0.6−	2000 02 12	704	1.3+	0.7+
1996 12 06	711	0.4+	0.0	2000 01 11	704	0.4+	1.0+	2000 02 12	704	0.5+	0.6+
1997 04 11	691	0.2+	0.5+	2000 01 11	704	0.6−	0.1+	2000 02 12	704	0.1−	0.8+
1997 04 11	691	0.3+	0.7+	2000 02 02	704	0.0	0.2+	2000 02 12	704	0.3+	1.1+
1997 04 11	691	0.2+	0.3+	2000 02 02	704	0.1+	0.5+	2000 02 12	704	0.8+	0.6+
1998 08 17	704	0.7+	0.9+	2000 02 02	704	0.2+	0.1+	2000 02 27	703	0.6−	0.1+
1998 08 17	704	0.4−	0.1−	2000 02 02	704	0.4+	0.6+	2000 02 27	703	0.6−	0.5+
1998 08 17	704	0.8−	1.1+	2000 02 02	704	0.2+	0.7+	2000 02 27	703	0.6−	0.3−
1998 08 17	704	0.0	0.5+	2000 02 06	704	0.5+	0.2+	2000 02 27	703	0.8−	0.2+
1998 08 17	704	(0.0	2.2+)	2000 02 06	704	0.0	0.6+	2000 03 06	704	0.2+	0.0
1999 12 05	703	0.6+	0.5−	2000 02 06	704	0.1−	0.3+	2000 03 06	704	0.5+	1.0−
1999 12 05	703	0.2+	1.2+	2000 02 06	704	0.2+	0.1+	2000 03 06	704	0.1−	0.1+
1999 12 05	703	0.7+	0.9+	2000 02 06	704	0.4+	0.4+	2000 03 06	704	0.2−	0.1−
1999 12 05	703	1.7+	0.3+	2000 02 08	819	0.5−	0.3−	2000 03 06	704	0.8+	0.6−
2000 01 08	704	0.2+	0.2−	2000 02 08	819	0.6−	0.3−	2000 03 11	608	0.7+	0.2+
2000 01 08	704	1.1+	0.1+	2000 02 08	819	0.5−	0.1−	2000 03 11	608	0.6+	0.9−
2000 01 08	704	0.7−	1.1−	2000 02 08	819	0.4−	0.1−	2000 03 11	608	0.5+	0.5−
2000 01 10	704	0.7−	0.6−	2000 02 08	819	0.3−	0.0				

2000 APR. 18

M.P.C. 39809

Residuals in seconds of arc

1978 03 15	675	0.7+	0.9-	1997 11 08	910	0.4+	0.2+	2000 03 27	699	0.9-	0.0
1978 03 16	675	0.7-	0.5-	1997 11 08	910	0.4+	0.2+	2000 03 27	699	0.2-	0.0
1988 08 19	675	0.4-	1.1+	1997 11 08	910	0.4+	0.4+	2000 03 27	699	0.8-	0.7+
1988 08 19	675	0.8-	1.0-	1998 12 17	113	0.3+	0.4+	2000 03 28	608	0.5-	0.7-
1988 09 08	033	0.7-	0.4+	1998 12 17	113	0.7-	0.3-	2000 03 28	608	0.0	1.0-
1988 09 08	033	0.2-	0.0	1998 12 17	113	0.1+	0.1-	2000 03 28	608	0.6-	0.3-
1988 09 09	033	0.2-	0.2-	2000 03 01	703	0.9+	0.2+	2000 04 01	691	0.1+	0.4-
1988 09 10	033	0.4-	0.6+	2000 03 01	703	0.5+	0.1-	2000 04 01	691	0.0	0.6-
1988 09 11	033	0.6-	0.1+	2000 03 01	703	0.0	0.1+	2000 04 01	691	0.1+	0.6-
1988 10 07	675	0.3+	1.0-	2000 03 01	703	0.0	0.2+	2000 04 05	704	0.3+	0.2+
1988 10 07	675	1.7-	0.5-	2000 03 09	704	0.2-	0.3-	2000 04 05	704	0.1+	0.5+
1988 10 13	675	1.2+	0.7+	2000 03 09	704	0.3+	0.3-	2000 04 05	704	0.7+	0.4+
1988 10 13	675	1.7+	0.7-	2000 03 09	704	0.1+	0.1-	2000 04 05	704	0.4+	0.8+
1991 01 23	675	1.9-	0.3-	2000 03 10	704	0.6+	0.1-	2000 04 05	704	0.3+	0.7+
1991 01 23	675	0.3+	0.5-	2000 03 10	704	0.6+	0.3+	2000 04 06	699	0.5-	0.1-
1992 08 03	675	0.0	1.0-	2000 03 10	704	0.2+	0.0	2000 04 06	704	0.1-	0.5+
1992 08 03	675	0.6+	1.2-	2000 03 10	704	0.4+	0.2-	2000 04 06	704	0.1-	0.3+
1992 08 06	675	0.5+	1.3-	2000 03 10	704	0.2+	0.1-	2000 04 06	699	0.3-	0.3-
1992 08 06	675	0.0	0.2+	2000 03 11	704	0.4+	0.2+	2000 04 06	704	0.0	0.3+
1992 08 24	675	0.3+	1.1+	2000 03 11	704	0.0	0.3+	2000 04 06	699	0.3-	0.2-
1992 08 24	675	0.4+	0.7+	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.3-	0.5+
1995 02 22	033	0.3+	0.1-	2000 03 11	704	0.1+	0.2+	2000 04 06	699	0.1-	0.2-
1995 02 22	033	0.4-	0.7-	2000 03 27	699	0.7-	0.0	2000 04 06	704	0.1+	0.9+

(14366)* 1988 RX₃ = 2000 DS₅₄

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

Id. G. V. Williams (*MPC* 39142)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	189.81658	(2000.0)	P	Q	
<i>n</i>	0.21181571	ω	164.93002	+0.88283579	+0.46933594
<i>a</i>	2.7871731	Ω	167.03336	-0.43880445	+0.83787172
<i>e</i>	0.0745155	<i>i</i>	4.60646	-0.16748617	+0.27873781
<i>P</i>	4.65	<i>H</i>	14.2	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1988 09 08	033	0.2+	0.8+	2000 01 27	691	0.3-	0.3-	2000 03 05	704	0.0	0.1-
1988 09 09	033	0.3-	0.5+	2000 02 05	691	0.2-	0.4-	2000 03 09	704	0.1+	0.2-
1988 09 09	033	1.1+	0.7+	2000 02 05	691	0.1-	0.4-	2000 03 09	704	0.1-	0.2-
1988 09 10	033	0.5+	0.7+	2000 02 05	691	0.1-	0.4-	2000 03 09	704	0.1+	0.5-
1988 09 10	033	0.5-	0.2+	2000 02 06	704	0.5+	0.0	2000 03 09	704	1.1+	0.7-
1988 09 15	675	0.8+	0.1-	2000 02 06	704	0.5-	0.3-	2000 03 11	704	0.2-	0.1-
1988 09 15	675	1.6-	0.0	2000 02 06	704	0.2+	0.3-	2000 03 11	699	0.1-	0.6-
1988 10 05	807	1.0+	0.9-	2000 02 06	704	0.2-	0.3+	2000 03 11	704	0.2-	0.2-
1988 10 08	807	0.8+	1.0-	2000 02 29	704	0.6+	1.1+	2000 03 11	704	0.5+	0.8-
1988 11 04	807	0.5-	0.3+	2000 02 29	704	0.2+	0.7+	2000 03 11	699	0.2-	0.1+
1988 11 05	807	0.4-	0.7-	2000 02 29	704	0.6-	0.4+	2000 03 11	699	0.5+	0.5-
1988 11 06	807	1.0-	0.1-	2000 02 29	704	0.1-	0.8+	2000 03 11	699	0.4-	0.7-
1988 11 07	807	0.2-	0.3-	2000 03 03	704	0.0	0.3+	2000 03 15	691	1.0-	0.7-
1996 04 18	691	0.2-	0.3-	2000 03 03	704	0.4+	0.3+	2000 03 15	691	1.2-	0.5-
1996 04 18	691	0.5-	0.4-	2000 03 03	704	0.2+	0.3+	2000 03 15	691	0.9-	0.4-
1996 04 18	691	0.0	1.2-	2000 03 03	704	0.3+	0.1+	2000 03 27	699	0.0	0.8+
1997 10 05	910	0.3-	0.7+	2000 03 03	704	0.3+	0.2+	2000 03 27	699	0.2-	0.2+
1997 10 05	910	0.1-	0.7+	2000 03 04	704	0.9+	0.1-	2000 03 27	699	0.2-	0.3+
1997 10 05	910	0.0	0.6+	2000 03 04	704	0.4+	0.6+	2000 03 27	699	0.6-	0.6+
1998 12 15	704	1.1+	0.8-	2000 03 04	704	0.9+	0.1+	2000 04 03	704	0.1-	0.1+
1998 12 15	704	0.2-	0.2+	2000 03 04	704	0.8-	0.7+	2000 04 03	704	0.8+	0.1+
1998 12 15	704	1.5-	1.4+	2000 03 05	704	0.1+	0.4+	2000 04 03	704	0.1-	1.2+
1998 12 15	704	0.6+	1.8-	2000 03 05	704	0.4+	1.5+	2000 04 03	704	0.3+	0.4-
2000 01 27	691	0.1+	0.5-	2000 03 05	704	0.2+	0.4+				
2000 01 27	691	0.2-	0.3-	2000 03 05	704	0.4+	0.8+				

(14367)* 1988 RY₃ = 1999 RF₃₃

Discovered 1988 Sept. 8 by F. Börngen at Tautenburg.

Id. G. V. Williams (*MPC* 36326)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P		Q	
<i>M</i>	25.50605	ω	174.46566	+0.97241764	+0.23322283		
<i>n</i>	0.17629872	Ω	172.04511	-0.21491012	+0.90141854		
<i>a</i>	3.1499472	<i>i</i>	1.37595	-0.09065083	+0.36476255		
<i>e</i>	0.1952012	<i>H</i>	14.2	<i>G</i>	0.15 <i>U</i> 1		
<i>P</i>	5.59						

Residuals in seconds of arc

1988 09 08	033	0.3-	0.9+	1999 08 22	699	0.9-	1.2+	1999 09 13	704	0.1+	1.2-
1988 09 09	033	0.4-	0.7-	1999 08 22	699	1.4-	1.2+	1999 09 14	118	0.1-	0.5-
1988 09 09	033	0.3+	0.3+	1999 09 07	704	0.1+	0.3+	1999 09 14	118	0.1+	0.3-
1988 09 10	033	0.3-	0.3-	1999 09 07	704	0.2+	0.1+	1999 09 14	118	0.1+	0.5-
1988 09 10	033	1.1-	0.9-	1999 09 07	704	0.0	0.2+	1999 09 15	118	0.0	0.3+
1988 09 11	033	0.2-	0.4+	1999 09 07	704	0.1-	0.4+	1999 09 15	118	0.1+	1.0+
1988 09 11	675	0.1-	0.8-	1999 09 07	704	0.1+	0.8+	1999 09 15	118	0.2-	0.6+
1988 09 11	675	0.7+	2.1-	1999 09 09	704	0.2+	0.5+	1999 09 16	118	0.4+	0.3-
1988 09 15	675	0.8+	1.0-	1999 09 09	704	0.1-	0.3+	1999 09 16	118	0.2+	0.3+
1988 09 15	675	0.4+	1.2-	1999 09 09	704	0.1-	0.0	1999 09 29	704	0.7+	0.1-
1988 10 08	807	1.7+	0.3+	1999 09 09	704	0.3+	0.5+	1999 09 29	704	0.1+	0.6-
1988 11 04	807	0.2+	0.4+	1999 09 09	704	0.9+	1.1+	1999 09 29	704	0.3+	0.8-
1988 11 06	807	0.4+	0.4-	1999 09 10	118	0.1-	0.3+	1999 09 29	704	0.2+	1.0-
1992 05 02	691	0.1+	0.4-	1999 09 10	118	0.3-	0.1+	1999 09 29	704	0.5-	1.0-
1992 05 02	691	0.0	0.2-	1999 09 10	118	0.3-	0.2+	1999 09 30	704	0.8+	0.2-
1992 05 02	691	0.5-	0.3-	1999 09 11	118	0.6-	0.1+	1999 09 30	704	0.2+	0.6-
1994 11 05	691	0.2-	0.7+	1999 09 11	118	0.4-	0.3+	1999 09 30	704	0.3+	1.0-
1994 11 05	691	0.3-	0.4+	1999 09 11	118	0.4-	0.1-	1999 09 30	704	0.1-	0.1+
1994 11 05	691	0.0	0.4+	1999 09 12	118	0.2+	0.7+	1999 09 30	704	0.3-	0.3-
1998 05 24	704	1.6+	1.1+	1999 09 12	118	0.7-	0.6+	1999 09 30	118	0.6-	0.4-
1998 05 24	704	(0.2-	2.2-)	1999 09 12	118	0.6-	0.8+	1999 09 30	118	0.7-	0.2+
1998 05 24	704	0.1+	1.1-	1999 09 13	704	0.4+	0.1+	1999 10 03	699	0.9+	0.2-
1998 05 24	704	1.8-	0.9-	1999 09 13	704	0.3+	0.3-	1999 10 03	699	0.1+	0.0
1998 05 24	704	(5.7-	1.3-)	1999 09 13	704	0.1-	0.8-	1999 10 03	699	0.8+	1.0+
1999 08 22	699	0.8-	0.8+	1999 09 13	704	0.1+	0.8-				

(14368)* 1988 TK = 1995 KW₅ = 1998 XO₄₉

Discovered 1988 Oct. 3 by S. Ueda and H. Kaneda at Kushiro.

Id. A. Doppler (d, *MPC* 33927; *MPC* 34488), A. Milani (*MPC* 34488)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P		Q	
<i>M</i>	224.59246	ω	308.24317	+0.65679240	+0.75402598		
<i>n</i>	0.21593234	Ω	2.85392	-0.62943759	+0.55425044		
<i>a</i>	2.7516356	<i>i</i>	9.57258	-0.41524940	+0.35249293		
<i>e</i>	0.2006521	<i>H</i>	13.2	<i>G</i>	0.15 <i>U</i> 1		
<i>P</i>	4.56						

Residuals in seconds of arc

1988 10 03	399	(5.4- 0.1+)	1996 05 14	566	0.5- 0.4+	2000 03 12	704	0.1+ 0.1+
1988 10 03	399	(2.7- 2.7-)	1997 09 30	566	0.1- 0.1+	2000 03 12	704	0.2- 0.2-
1988 10 03	399	2.2- 0.4-	1997 09 30	566	0.2+ 0.1+	2000 03 12	704	0.4+ 0.1+
1988 10 03	399	(4.9- 2.2-)	1997 09 30	566	0.3- 0.3+	2000 03 12	704	0.0 0.8+
1988 10 08	399	(0.1- 3.2+)	1998 12 14	704	0.8+ 1.7-	2000 03 28	704	0.6+ 0.0
1988 10 13	399	0.7+ 0.5+	1998 12 14	704	0.4+ 0.6-	2000 03 28	704	0.1- 0.3+
1988 10 13	399	1.3+ 1.3+	1998 12 14	704	1.8- 0.5+	2000 03 28	704	0.1+ 0.1-
1988 10 13	399	(2.7- 0.3-)	1998 12 14	704	(0.4+ 2.8-)	2000 03 28	704	0.2+ 0.1+
1988 10 15	399	1.1- 0.8-	1998 12 17	704	0.6+ 1.0-	2000 03 28	608	0.4+ 0.4-
1988 10 16	399	0.9+ 1.3+	1998 12 17	704	1.1- 0.3+	2000 03 28	608	0.3+ 0.5-
1988 10 16	399	0.3- 0.1-	1998 12 17	704	0.4+ 0.1+	2000 03 28	608	0.6- 0.6-
1988 10 18	399	0.6+ 1.5-	1998 12 17	704	0.7- 1.8+	2000 04 03	699	0.0 0.0
1988 10 18	399	0.2+ 0.3+	2000 02 04	704	0.5- 0.1+	2000 04 03	699	0.1+ 0.3+
1995 05 23	104	0.4+ 0.5+	2000 02 04	704	0.6- 0.4+	2000 04 03	699	0.3- 0.0
1995 05 23	104	0.4- 0.1-	2000 02 04	704	0.6+ 0.1+	2000 04 03	704	0.5+ 0.2+
1995 05 23	104	0.7- 0.4+	2000 02 26	703	0.0 0.3+	2000 04 03	699	0.0 0.1-
1995 05 23	104	0.3+ 0.1+	2000 02 26	703	0.2+ 0.3-	2000 04 03	704	0.0 0.4+
1995 05 23	104	0.6+ 0.3-	2000 02 26	703	0.1+ 0.3+	2000 04 03	704	0.6+ 0.2-
1996 05 14	566	0.4- 0.1-	2000 02 26	703	0.1+ 0.3+	2000 04 03	704	0.2+ 0.2-
1996 05 14	566	0.0 0.1+	2000 03 12	704	0.2- 0.2-	2000 04 03	704	0.1+ 1.0-

(14369)* 1988 UV = 1978 UZ₃ = 1997 HT₉

Discovered 1988 Oct. 18 by S. Ueda and H. Kaneda at Kushiro.

Id. R. Nagata (*MPC* 17207), G. V. Williams (*MPC* 30076)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	98.20973		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.29186022	ω	206.70511	+0.51146592			-0.85643779
<i>a</i>	2.2508823	Ω	212.67032	+0.80979526			+0.50768881
<i>e</i>	0.0969899	<i>i</i>	7.46384	+0.28746175			+0.09362899
<i>P</i>	3.38	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 10 28	675	1.4-	0.1+	1998 08 19	704	1.8-	1.2+	2000 03 01	703	0.1+	0.0
1978 10 29	675	0.5-	0.1+	1998 08 24	704	0.8+	0.1+	2000 03 01	703	0.4+	0.1-
1988 10 13	399	1.9-	1.7-	1998 08 24	704	0.5-	0.3-	2000 03 01	703	0.7+	0.3+
1988 10 15	399	1.0+	1.1-	1998 08 24	704	0.5-	0.6+	2000 03 01	703	0.0	0.0
1988 10 16	399	0.5+	0.5-	1998 08 24	704	0.6-	0.9-	2000 03 09	704	0.5+	0.0
1988 10 18	399	1.2+	1.8-	1998 08 24	704	0.5-	0.7-	2000 03 09	704	0.1+	0.1+
1988 10 18	399	0.9+	1.8+	1998 09 16	699	0.1+	0.7+	2000 03 09	704	0.0	0.3+
1988 10 19	399	(3.6+ 3.0+)		1998 09 16	699	0.1+	1.2+	2000 03 09	704	0.3+	0.1+
1988 10 19	399	1.3+	1.0+	1998 09 16	699	0.3-	1.1+	2000 03 09	704	0.3+	0.3+
1988 10 19	399	1.7+	0.0	1998 09 18	704	0.1-	0.0	2000 03 13	704	1.1+	0.8+
1997 04 06	704	0.2-	0.1-	1998 09 18	704	0.2+	0.5+	2000 03 13	704	0.9+	0.5+
1997 04 06	704	0.3+	0.4+	1998 09 18	704	0.9+	0.4+	2000 03 13	704	0.5+	0.3+
1997 04 08	704	0.1-	0.5+	1998 09 18	704	0.6-	0.4+	2000 03 14	608	0.9-	0.1+
1997 04 08	704	0.4-	0.3+	1998 09 18	704	0.3-	0.7+	2000 03 14	608	1.2-	0.4-
1997 04 08	704	1.0-	0.3+	1998 09 25	704	0.6+	0.0	2000 03 14	608	1.5-	0.4-
1997 04 08	704	1.2-	1.0+	1998 09 25	704	0.8+	1.0-	2000 03 30	703	0.7-	0.1+
1997 04 30	704	1.0+	0.0	1998 09 25	699	0.1-	1.9+	2000 03 30	703	0.1-	0.6+
1997 04 30	704	1.1+	0.7+	1998 09 25	704	1.2-	0.9-	2000 03 30	703	0.2+	0.3+
1997 04 30	704	1.1+	0.8-	1998 09 25	699	0.1-	1.7+	2000 03 30	703	0.4+	0.4+
1997 04 30	704	0.5+	0.2+	1998 09 25	699	0.3-	0.6+	2000 04 02	699	0.1-	0.4+
1997 04 30	704	0.2-	0.9-	1998 09 25	704	0.5+	1.2-	2000 04 02	699	0.3-	0.2+
1997 05 01	704	0.3+	0.7-	1998 09 25	704	0.3-	1.1-	2000 04 02	699	0.4+	0.9+
1997 05 01	704	0.1+	0.4+	1998 09 27	704	0.3-	0.1+	2000 04 02	699	0.5+	0.6+
1997 05 01	704	0.4-	0.7-	1998 09 27	704	0.2+	0.1-	2000 04 03	684	0.6-	0.7-
1997 05 01	704	0.8+	0.2-	1998 09 27	704	0.2+	0.9-	2000 04 03	684	0.4-	0.7-
1997 05 01	704	0.8+	0.7-	1998 09 27	704	0.3-	0.3+	2000 04 04	704	0.1-	0.3-
1997 05 08	327	0.6-	0.7-	1998 09 27	704	0.5+	0.1+	2000 04 04	704	1.2+	0.5+
1997 05 08	327	1.5-	0.5-	1998 09 27	699	0.0	0.8+	2000 04 04	704	0.6-	0.0
1997 05 08	327	(4.0- 0.5-)		1998 09 27	699	0.5+	0.5+	2000 04 04	704	1.1+	0.1-
1998 08 19	704	0.4+	0.2-	1998 09 27	699	0.5-	0.4+	2000 04 04	704	0.1-	1.2+
1998 08 19	704	0.6+	0.4-	1998 10 11	699	0.7-	0.3+	2000 04 08	704	1.2-	0.7+
1998 08 19	704	1.0-	1.0+	1998 10 11	699	0.8-	0.6+	2000 04 08	704	0.7+	0.5+
1998 08 19	704	0.4-	0.7-	1998 10 11	699	0.4-	0.3+	2000 04 08	704	(3.5+ 0.7-)	

(14370)* 1988 VR₂ = 1993 VB₄

Discovered 1988 Nov. 12 by E. F. Helin at Palomar.

Id. S. Nakano (*MPC* 22811)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	73.00607		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.19594229	ω	0.62774	+0.02085893			-0.97326132
<i>a</i>	2.9357378	Ω	88.19371	+0.91628217			-0.07292845
<i>e</i>	0.2724551	<i>i</i>	13.23028	+0.39998986			+0.21781609
<i>P</i>	5.03	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 11 12	675	1.7-	0.2+	1998 11 13	704	0.8+	0.1+	1999 02 04	704	0.1-	1.3+
1988 11 13	675	0.2-	0.9-	1998 11 13	704	0.3+	0.1-	1999 02 04	704	1.2+	0.2+
1988 12 06	675	1.5+	1.3-	1998 11 13	704	0.0	0.9-	1999 02 04	704	1.3-	0.6-
1988 12 07	675	1.4+	1.2-	1998 11 13	704	0.3+	1.2+	1999 02 04	704	0.3-	0.7-
1989 01 02	675	0.0	1.5-	1998 11 13	704	0.8-	0.5+	2000 01 08	699	(2.2- 1.0+)	
1989 01 02	675	1.2-	1.0-	1998 11 16	699	0.5+	1.2+	2000 01 08	699	0.7-	0.6+
1993 11 15	402	0.5+	0.6+	1998 11 16	699	0.5+	0.4+	2000 01 08	699	0.1+	1.3+
1993 11 15	402	0.1-	1.5+	1998 11 16	699	0.2-	0.5-	2000 02 06	704	0.6+	0.3-
1993 11 16	402	1.5+	0.6+	1998 11 17	145	1.1-	0.1+	2000 02 06	704	0.2-	0.2-

1993 11 16	402	0.1-	0.4-	1998 11 17	145	1.2-	0.6+	2000 02 06	704	1.0-	0.3-
1994 01 11	675	1.8+	0.6+	1998 11 18	145	0.7+	0.4+	2000 02 06	704	0.1+	0.5-
1994 01 11	675	0.1-	1.8+	1998 11 18	145	1.3-	1.3+	2000 04 05	704	0.7-	0.3-
1994 01 12	691	0.8+	0.2-	1998 12 15	704	0.3-	0.4-	2000 04 05	704	0.7-	0.5+
1994 01 12	691	1.6-	0.0	1998 12 15	704	(0.2- 2.1-)		2000 04 05	704	0.3+	1.0-
1994 01 12	691	0.1-	0.2-	1998 12 15	704	0.9-	0.0	2000 04 05	704	0.0	0.3+
1994 01 13	675	1.9+	0.1+	1998 12 15	704	1.0-	0.3-	2000 04 08	704	0.5-	0.7-
1994 01 13	675	0.9-	1.1-	1998 12 15	704	1.3-	0.7+	2000 04 08	704	0.1-	0.1-
1994 01 18	691	0.7-	0.2+	1998 12 17	636	0.9-	1.1-	2000 04 08	704	0.6+	0.1-
1994 01 18	691	0.5+	0.1+	1998 12 17	636	0.6+	1.0-	2000 04 08	704	0.0	0.1+
1994 01 18	691	0.1+	0.0	1998 12 20	636	0.7+	0.1+	2000 04 08	704	0.0	0.3+
1998 09 20	426	0.9-	0.1-	1998 12 20	636	1.5+	0.0	2000 04 13	704	1.0+	0.1+
1998 09 20	426	0.1-	0.8-	1998 12 20	636	0.6-	1.0+	2000 04 13	704	0.1-	1.3+
1998 09 20	426	1.2-	0.1+	1999 01 11	704	0.1+	0.9+	2000 04 13	704	0.5+	0.5+
1998 09 24	426	0.3-	0.3-	1999 01 11	704	0.2+	0.7-	2000 04 13	704	0.3+	0.9+
1998 09 24	426	0.0	0.6-	1999 01 11	704	(0.3+ 2.4-)		2000 04 13	704	0.0	0.6+
1998 10 29	699	0.1+	0.7+	1999 01 11	704	1.1+	0.5+	2000 04 13	608	0.0	0.2+
1998 10 29	699	0.3+	0.4+	1999 01 11	704	(1.4+ 3.4+)		2000 04 13	608	0.2+	0.3-
1998 10 29	699	0.3+	0.5-	1999 02 04	704	0.3+	0.1-	2000 04 13	608	0.5+	0.3-

(14371)* 1988 XX₂ = 1993 FT₁₆

Discovered 1988 Dec. 12 by P. Jensen at Brorfelde.

Id. K. Kinoshita (*MPC* 25425)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	84.29201		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.28437247	ω	7.53325	+0.15171453			-0.98772384
<i>a</i>	2.2902225	Ω	73.74593	+0.90482857			+0.12363440
<i>e</i>	0.1750724	<i>i</i>	2.22107	+0.39782906			+0.09547849
<i>P</i>	3.47	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 12 07	399	1.1-	1.3-	1998 09 17	699	0.2+	0.2+	2000 03 09	704	0.4+	0.0
1988 12 07	399	2.0+	0.9-	1998 09 17	699	0.0	0.2-	2000 03 09	704	1.1+	0.2+
1988 12 07	399	0.7+	0.3+	1998 09 18	704	0.0	1.0-	2000 03 09	704	0.8+	0.4+
1988 12 07	399	0.9-	1.1-	1998 09 18	704	0.3-	0.5-	2000 03 09	704	0.5+	0.6-
1988 12 11	399	0.0	1.3+	1998 09 18	704	(1.1+ 2.2-)		2000 03 09	704	0.0	1.0-
1988 12 11	399	0.4+	0.8-	1998 09 18	704	0.1-	1.1-	2000 03 27	699	0.3+	0.1-
1988 12 11	399	0.3-	0.5-	1998 09 18	704	0.7-	1.0-	2000 03 27	699	0.6-	1.2+
1988 12 11	399	1.7+	1.1+	1998 09 26	704	1.1-	0.5+	2000 03 27	699	1.2+	0.6+
1988 12 12	054	0.6-	0.6+	1998 09 26	704	0.5-	0.3-	2000 03 27	699	0.3+	0.4+
1988 12 13	054	0.3-	0.2+	1998 09 26	704	1.4-	0.4-	2000 04 02	699	0.5-	0.3+
1993 03 19	809	0.2+	0.2-	1998 09 26	704	1.9-	0.2+	2000 04 02	699	0.6-	0.3+
1993 03 20	809	0.8-	1.6-	1998 09 26	704	(2.6- 1.2+)		2000 04 02	699	0.6-	0.0
1993 03 23	809	0.3+	1.5+	1998 09 27	704	0.1-	0.4+	2000 04 02	699	0.4-	0.1+
1993 03 24	691	0.6-	0.8-	1998 09 27	704	0.9+	0.6+	2000 04 04	704	0.5-	0.0
1993 03 24	691	0.4-	0.9-	1998 09 27	704	0.4+	0.9+	2000 04 04	704	0.6+	0.4+
1993 03 24	691	0.4-	0.8-	1998 09 27	704	0.6+	0.4+	2000 04 04	704	0.5+	0.8+
1994 07 11	809	(0.5- 3.8-)		1998 09 27	704	0.3+	0.5-	2000 04 04	704	0.7+	0.2+
1994 07 11	809	(0.5+ 3.8-)		1998 10 14	704	0.7-	0.4-	2000 04 04	704	0.5+	0.4+
1994 07 11	809	(1.5+ 3.7-)		1998 10 14	704	0.6-	1.0+	2000 04 06	699	0.2+	0.5+
1994 07 12	809	0.3+	1.2-	1998 10 14	704	1.6+	0.7-	2000 04 06	699	0.1+	0.3+</

2000 APR. 18

M.P.C. 39811

(14372)* 1989 AD₆ = 1982 UK₅ = 1995 FE₁ = 2000 CW₆₂

Discovered 1989 Jan. 9 by F. Börngen at Tautenburg.

Id. M. E. Sansaturio (*MPC* 39143), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.09713		(2000.0)		P		Q
<i>n</i>	0.18988206	ω	256.55761		+0.02092257		-0.99911113
<i>a</i>	2.9978743	Ω	192.41835		+0.97046060		+0.02909487
<i>e</i>	0.0871213	<i>i</i>	9.79780		+0.24035072		-0.03050316
<i>P</i>	5.19	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 10 20	033	0.4+	0.1-	2000 02 02	704	0.8+	0.5+	2000 03 08	704	0.6+	0.3+
1989 01 09	033	0.2+	0.9-	2000 02 02	704	0.0	0.1-	2000 03 08	704	0.4+	0.2+
1989 01 09	033	0.6-	0.2+	2000 02 02	704	0.6+	0.5-	2000 03 13	704	0.7+	0.1-
1989 01 11	033	0.4+	0.1+	2000 02 02	704	1.0+	1.0+	2000 03 13	704	0.1-	0.4+
1989 01 11	033	0.1+	0.2-	2000 02 02	704	0.3-	0.3-	2000 03 13	704	0.3+	0.1+
1989 02 03	033	0.1+	0.4+	2000 02 07	704	1.6-	0.4-	2000 03 13	704	0.8+	0.4+
1989 02 03	033	0.1-	0.3-	2000 02 07	704	1.2-	0.3-	2000 03 13	704	0.1+	0.5+
1995 03 28	399	1.8-	0.3-	2000 02 07	704	1.3-	1.1-	2000 03 30	703	0.8+	0.1-
1995 03 28	399	(3.1-	0.0)	2000 02 07	704	1.0-	0.4+	2000 03 30	703	0.4+	0.0
1998 11 13	704	0.3+	0.7-	2000 02 07	704	1.1-	0.4+	2000 03 30	703	0.1+	0.4+
1998 11 13	704	0.3-	0.4+	2000 02 08	704	0.4+	0.8-	2000 03 30	703	0.1+	0.2-
1998 11 13	704	0.5-	0.7+	2000 02 08	704	0.6+	0.4+	2000 04 02	699	0.4-	0.0
1998 11 13	704	1.4-	0.4+	2000 02 08	704	0.2+	0.2+	2000 04 02	699	0.2-	0.4-
1998 11 13	704	0.3+	0.8-	2000 02 08	704	1.0+	1.3+	2000 04 02	699	0.1-	0.4-
1998 12 22	704	(2.4+	0.5-)	2000 02 08	704	0.9+	1.1+	2000 04 02	699	0.5-	0.1-
1998 12 22	704	0.5+	0.7+	2000 02 27	703	0.4-	0.1-	2000 04 04	704	0.2+	0.9-
1998 12 22	704	0.5+	0.4-	2000 02 27	703	0.9+	0.0	2000 04 04	704	0.3+	0.4+
1998 12 22	704	0.0	0.4+	2000 02 27	703	0.1-	0.3+	2000 04 04	704	0.3+	0.4+
1998 12 22	704	(0.6+	2.4+)	2000 02 27	703	0.3+	0.1-	2000 04 04	704	0.7+	0.0
2000 01 05	704	1.5-	1.2-	2000 03 08	704	0.6+	0.2+	2000 04 04	704	(0.9+	2.3+)
2000 01 05	704	1.8-	0.5-	2000 03 08	704	0.2-	0.2-				
2000 01 05	704	(3.1-	0.4-)	2000 03 08	704	0.1-	0.8-				

(14373)* 1989 LT = 1970 GX

Discovered 1989 June 3 by E. F. Helin at Palomar.

Id. A. Doppler (*MPC* 34489), M. E. Sansaturio (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	316.04729		(2000.0)		P		Q
<i>n</i>	0.26316748	ω	247.45112		-0.36979074		+0.92911496
<i>a</i>	2.4116516	Ω	0.84654		-0.84120355		-0.33460179
<i>e</i>	0.1441639	<i>i</i>	1.69616		-0.39450146		-0.15743895
<i>P</i>	3.75	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1970 04 10	805	0.6+	0.9+	1996 03 16	608	0.1+	0.2+	2000 02 10	704	0.4-	0.4+
1970 04 10	805	0.7+	0.4+	1996 03 16	608	0.3-	0.8+	2000 02 10	704	0.4-	0.2+
1970 04 10	805	0.4+	0.4-	1996 03 17	608	0.2+	0.4-	2000 02 10	704	0.2-	0.1+
1989 06 03	675	2.4-	1.6-	1996 03 17	608	0.4-	0.3+	2000 04 05	704	0.0	0.0
1989 06 03	675	(2.9-	2.0-)	1996 03 20	566	0.2-	0.3-	2000 04 05	704	0.0	0.1+
1989 06 05	675	(3.8-	1.8-)	1996 03 20	566	0.3-	0.4-	2000 04 05	704	0.1+	0.0
1989 06 05	675	(1.8-	2.9-)	1996 03 20	566	0.4-	0.2-	2000 04 05	704	0.1+	0.3+
1989 06 30	675	1.4-	0.7-	1997 09 11	118	0.4+	0.5-	2000 04 05	704	0.2-	0.1+
1989 06 30	675	1.1-	0.7-	1997 09 11	118	0.6+	0.3-	2000 04 06	704	0.7+	1.0+
1989 07 03	675	0.3-	1.9-	1997 09 11	118	0.4+	0.5-	2000 04 06	704	0.2+	0.0
1989 07 03	675	0.2+	1.0-	1997 09 11	118	0.4-	0.4-	2000 04 06	704	0.2-	0.1+
1993 07 15	675	0.7+	1.8+	1997 09 11	118	0.4-	0.5-	2000 04 06	704	0.0	0.2+
1993 07 15	675	0.1+	0.5+	1997 09 11	118	0.6-	0.6-	2000 04 06	704	0.2-	0.2+
1993 07 16	675	1.1+	0.6+	1997 09 23	327	0.2-	0.0	2000 04 07	691	0.1-	0.5-
1993 07 16	675	1.0+	1.2+	1997 09 23	327	0.6-	0.0	2000 04 07	704	0.2+	0.3+
1993 07 20	675	(1.1+	2.7+)	1997 09 23	327	0.2-	0.1-	2000 04 07	691	0.1+	0.5-
1993 07 20	675	(0.7+	2.7+)	1998 12 14	704	1.9+	1.0-	2000 04 07	704	0.1+	0.2+
1994 11 28	675	(2.3-	1.1-)	1998 12 14	704	(2.2+	0.1-)	2000 04 07	691	0.0	0.5-
1994 11 28	675	0.4-	0.8-	1998 12 14	704	0.3+	1.0-	2000 04 07	704	0.1-	0.0
1996 02 15	691	0.5-	0.1+	1998 12 14	704	0.1-	0.8-	2000 04 07	704	0.7+	0.6-

1996 02 15	691	0.4-	0.1+	1998 12 14	704	0.6-	0.3+	2000 04 08	704	0.2+	0.0
1996 02 15	691	0.2-	0.1+	1998 12 17	704	0.1-	0.3-	2000 04 08	704	0.2+	0.2+
1996 02 19	411	0.1+	0.8-	1998 12 17	704	0.4-	0.4+	2000 04 08	704	0.1+	0.1+
1996 02 19	411	0.1+	0.8-	1998 12 17	704	0.7+	0.0	2000 04 08	704	0.4-	0.0
1996 03 15	608	1.1-	1.7-	1998 12 17	704	0.2-	0.1+	2000 04 08	704	0.6+	0.1-
1996 03 15	608	0.4+	0.5-	1998 12 17	704	(0.3+	2.7+)	2000 04 11	691	0.4+	0.4-
1996 03 16	608	0.1+	0.2+	2000 02 10	704	0.0	0.7+	2000 04 11	691	0.3+	0.4-
1996 03 16	608	0.3-	0.4+	2000 02 10	704	0.7+	1.4+	2000 04 11	691	0.3+	0.4-

(14374)* 1989 SA = 1981 WN₈

Discovered 1989 Sept. 21 by R. H. McNaught at Siding Spring.

Id. B. G. Marsden (*MPC* 15420)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	171.37425		(2000.0)		P		Q
<i>n</i>	0.23655600	ω	298.98742		+0.92979707		-0.28277993
<i>a</i>	2.5892863	Ω	78.27345		+0.36075838		+0.82711968
<i>e</i>	0.1876629	<i>i</i>	13.92397		-0.07301236		+0.48570418
<i>P</i>	4.17	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 05 26	413	0.9+	2.1-	1998 12 17	699	0.6+	0.0	2000 03 07	704	1.2+	0.7+
1976 05 26	413	0.7-	0.5-	1998 12 17	699	0.6+	0.2-	2000 04 03	704	0.3+	0.2-
1976 05 27	413	0.2+	0.5-	1999 01 09	699	0.1-	1.4-	2000 04 03	704	0.2-	0.6-
1976 05 27	413	0.7-	0.4-	1999 01 09	699	0.8+	0.6-	2000 04 03	704	0.3-	0.4+
1981 11 25	095	(2.7+	4.5-)	1999 01 09	699	0.6+	0.6-	2000 04 03	704	0.3-	0.7+
1989 09 19	413	0.3+	0.6-	1999 02 10	704	0.4-	0.3-	2000 04 04	699	0.4-	0.2-
1989 09 19	413	0.3-	0.8+	1999 02 10	704	0.2-	0.1+	2000 04 04	699	0.3-	0.2-
1989 09 21	413	(2.8-	0.5-)	1999 02 10	704	0.5+	0.2-	2000 04 04	699	0.2-	0.3-
1989 09 21	413	0.6-	0.2+	1999 02 10	704	0.2-	0.4-	2000 04 04	699	0.5-	0.2-
1989 09 22	413	0.5+	0.1+	1999 02 10	704	0.2+	0.1-	2000 04 08	704	0.0	0.1+
1989 09 26	413	0.8+	1.7-	1999 04 06	704	0.1+	1.1-	2000 04 08	704	0.0	0.6-
1989 10 03	413	0.1+	0.1+	1999 04 06	704	(2.8-	0.4+)	2000 04 08	704	0.1-	0.3-
1989 10 20	413	0.1+	0.5-	1999 04 06	704	(1.6-	2.6-)	2000 04 08	704	0.5-	0.2-
1998 11 24	699	0.0	0.8-	1999 04 06	704	0.0	0.9+	2000 04 08	704	0.2-	0.4-
1998 11 24	699	1.1-	0.8+	2000 03 02	703	0.1-	0.4+	2000 04 13	704	0.1-	0.2+
1998 11 24	699	(2.2+	1.7+)	2000 03 02	703	0.6-	0.3+	2000 04 13	704	0.8+	0.2-
1998 11 24	699	0.6-	0.4-	2000 03 02	703	0.0	0.1-	2000 04 13	704	0.2+	0.2-
1998 11 24	699	(2.6-	1.5-)	2000 03 02	703	0.1-	0.4+	2000 04 13	704	0.4+	0.2-
1998 11 24	699	1.2-	0.4+	2000 03 07	704	0.5+	0.9-	2000 04 13	704	0.4-	0.4+
1998 12 17	699	0.3-	0.1+	2000 03 07	704	0.8+	0.3+				

(14375)* 1989 SU = 1976 FB = 1993 RB₂

Discovered 1989 Sept. 29 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 22685)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	239.28583		(2000.0)		P		Q
<i>n</i>	0.24453226	ω	31.75781		+0.80822408		+0.58513696
<i>a</i>	2.5326700	Ω	292.28675		-0.55416420		+0.71770362
<i>e</i>	0.2366788	<i>i</i>	4.10558		-0.19918805		+0.37751324
<i>P</i>	4.03	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 03 27	801	(4.9+	0.4+)	1993 09 19	400	0.9-	0.5+	2000 03 03	703	(2.5+	1.1+)
1989 09 29	399	(3.2-	1.0+)	1993 09 23	095	0.6+	2.0+	2000 03 03	703	1.5-	1.2+
1989 09 29	399	(1.5-	2.6+)	1997 09 21	127	0.1+	0.2-	2000 04 07	704	0.6+	0.5+
1989 09 29	399	0.5-	2.0+	1997 09 21	127	0.2-	0.1-	2000 04 07	704	0.6+	0.4+
1989 10 03	399	0.3-	0.4+	1997 09 22	127	0.9-	0.2+	2000 04 07	704	0.6+	0.1+
1989 10 03	399	1.1-	1.1+	1997 09 22	127	0.7-	0.3+	2000 04 07	704	0.1+	0.2+
1989 10 03	399	(2.5+	2.6+)	1997 09 24	127	0.8+	0.4-	2000 04 07	704	0.1+	0.1+
1989 10 23	399	1.6-	1.4-	1997 09 24	127	0.6+	0.4-	2000 04 08	704	1.3+	0.7+
1989 10 23	399	(2.4-	2.1-)	1997 10 19	596	0.1-	0.2+	2000 04 08	704	0.5-	0.7+
1989 10 23	399	0.2+	1.0+	1997 10 19	596	0.5-	0.4+	2000 04 08	704	1.3+	1.0+
1989 10 29	399	0.7+	1.0+	1998 12 23	691	0.9+	0.3+	2000 04 08	704	1.2+	1.3+
1989 10 29	399	(0.8-	2.3+)	1998 12 23	691	0.9+	0.3+	2000 04 08	704	1.1+	1.0+
1989 10 29	399	1.1-	1.9+	1999 01 08	691	0.0	0.5-	2000 04 10	704	1.0-	0.5-

1993 09 15	400	1.9–	0.9+	1999 01 08	691	0.1–	0.5–	2000 04 10	704	0.3+	0.2+
1993 09 15	400	1.2+	1.8–	1999 01 16	691	0.9–	0.2–	2000 04 10	704	0.7+	0.5+
1993 09 15	095	0.5+	1.2+	1999 01 16	691	0.9–	0.0	2000 04 10	704	0.1+	0.3+
1993 09 16	400	(0.9–	2.4+)	1999 01 16	691	0.6–	0.1–	2000 04 10	704	0.1+	1.0+
1993 09 16	400	0.0	1.0–	2000 03 03	703	0.3+	0.9+				
1993 09 19	400	1.2+	1.0+	2000 03 03	703	0.1+	1.5+				

(14376)* 1989 ST₁₀ = 1981 TX₂ = 1981 UQ₁₉ = 1988 GM₂ = 2000 CF₆₃

Discovered 1989 Sept. 28 by H. Debehogne at the European Southern

Observatory.

Id. M. E. Sansaturio (*MPC* 39143), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24173870	ω	134.91447	+0.65541852	+0.75518426		
<i>a</i>	2.5521445	Ω	175.98928	–0.72994304	+0.63715002		
<i>e</i>	0.2047220	<i>i</i>	9.13473	–0.19393226	+0.15406684		
<i>P</i>	4.08	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 06	095	2.1–	0.3–	1999 01 20	704	0.8+	0.9+	2000 03 03	704	0.2+	0.5+
1981 10 26	095	(0.4–	2.8+)	1999 01 20	704	0.6+	0.9–	2000 03 03	704	0.1+	0.8+
1988 04 14	054	0.7–	0.6–	1999 11 08	703	0.1–	0.6+	2000 03 03	704	0.4+	0.9+
1989 09 28	809	0.0	1.1+	1999 11 08	703	0.7–	0.1+	2000 03 08	704	0.6+	0.0
1989 09 28	809	0.3+	0.9+	1999 11 08	703	0.6+	0.6+	2000 03 08	704	0.1–	0.3–
1989 09 28	809	0.6+	0.6+	1999 11 08	703	1.0+	0.1+	2000 03 08	704	0.7–	0.1+
1989 09 29	809	0.1–	1.9+	1999 12 16	704	0.7–	0.0	2000 03 08	704	0.1–	0.0
1989 09 29	809	0.0	1.8+	1999 12 16	704	0.2+	1.8–	2000 03 08	704	0.2+	0.0
1989 09 29	809	0.4+	1.6+	1999 12 16	704	0.3+	0.8–	2000 03 09	704	0.3+	0.2+
1989 09 29	675	0.1–	0.3+	1999 12 16	704	0.1–	1.7–	2000 03 09	704	0.2+	0.1+
1989 09 29	675	0.2–	0.8+	2000 01 05	704	0.6–	0.1–	2000 03 09	704	0.2+	0.0
1989 10 03	808	(1.4–	3.1–)	2000 01 05	704	0.9–	0.2+	2000 03 09	704	0.2+	0.1+
1989 10 03	808	0.5+	1.4+	2000 01 05	704	0.6–	0.3–	2000 03 09	704	0.6+	0.2–
1996 02 24	566	0.3+	0.0	2000 01 05	704	0.5–	0.1–	2000 03 11	704	0.0	0.3+
1996 02 24	566	0.2–	0.4–	2000 02 02	704	0.3+	0.5+	2000 03 11	704	0.0	0.5+
1996 02 24	566	0.6–	0.0	2000 02 02	704	0.6+	0.8+	2000 03 11	704	0.1–	0.6+
1996 02 25	413	(4.0–	0.8+)	2000 02 02	704	0.4+	1.2+	2000 03 11	704	0.0	0.1–
1996 02 25	413	0.1–	0.1+	2000 02 02	704	0.2+	0.9+	2000 03 11	704	0.3–	0.9+
1996 03 18	566	0.4+	0.2+	2000 02 02	704	0.3–	1.2+	2000 03 11	699	0.4–	0.5+
1996 03 18	566	0.7+	0.1+	2000 02 07	704	0.9–	0.4–	2000 03 11	699	0.0	0.3+
1996 03 18	566	0.1+	0.0	2000 02 07	704	0.8+	0.8–	2000 03 11	699	0.5–	0.5+
1997 08 30	566	0.6–	0.2–	2000 02 07	704	0.2–	0.7–	2000 03 11	699	0.2–	0.2+
1997 08 30	566	0.4–	0.0	2000 02 07	704	0.5–	1.7–	2000 03 12	704	0.1+	0.4+
1997 08 30	566	0.7–	0.3–	2000 02 07	704	0.7+	1.1–	2000 03 12	704	0.4+	0.4+
1997 10 29	566	0.0	0.1–	2000 02 08	704	0.1–	0.7+	2000 03 12	704	0.2+	1.3+
1997 10 29	566	0.1–	0.1–	2000 02 08	704	0.1+	0.1+	2000 03 12	704	0.6+	0.8+
1997 10 29	566	0.0	0.0	2000 02 08	704	0.1+	0.1–	2000 03 12	704	0.3+	0.6+
1998 12 15	704	0.2–	0.1+	2000 02 08	704	0.3+	0.1–	2000 04 05	704	0.2–	0.2–
1998 12 15	704	1.3–	1.7–	2000 02 08	704	0.4–	0.8–	2000 04 05	704	0.0	0.5+
1998 12 15	704	0.4–	0.4–	2000 02 16	703	0.0	0.2+	2000 04 05	704	0.4+	0.4+
1998 12 15	704	0.6+	0.4–	2000 02 16	703	0.1+	0.3+	2000 04 05	704	0.4+	0.2+
1998 12 15	704	0.8+	0.7–	2000 02 16	703	0.1+	0.1+	2000 04 05	704	0.3+	0.4+
1998 12 22	704	1.4–	0.5+	2000 02 16	703	0.2+	0.2+	2000 04 08	704	0.0	0.7–
1998 12 22	704	0.9+	0.1–	2000 02 27	703	0.2+	0.3+	2000 04 08	704	0.1+	0.1–
1998 12 22	704	1.0–	0.8+	2000 02 27	703	0.4–	0.3+	2000 04 08	704	0.3+	0.4+
1998 12 22	704	1.3+	1.2–	2000 02 27	703	0.0	0.3+	2000 04 08	704	0.5+	0.7+
1998 12 22	704	0.5–	0.1–	2000 02 27	703	0.2–	0.3+	2000 04 08	704	0.4+	0.4+
1999 01 18	704	1.3+	1.9+	2000 02 29	704	0.1–	0.3+	2000 04 10	704	0.3+	0.1+
1999 01 18	704	(2.0+	0.3+)	2000 02 29	704	0.0	0.2+	2000 04 10	704	0.2+	0.0
1999 01 18	704	1.7–	1.2–	2000 02 29	704	0.3–	0.2+	2000 04 10	608	0.3+	0.5–
1999 01 18	704	0.7–	1.5+	2000 02 29	704	0.2–	0.4+	2000 04 10	704	0.3+	0.8+
1999 01 18	704	1.1–	1.6–	2000 02 29	704	0.3–	0.1+	2000 04 10	608	0.1+	0.6–
1999 01 20	704	(2.5–	0.1+)	2000 03 03	704	0.2–	0.7+	2000 04 10	608	0.1+	0.7–
1999 01 20	704	1.7+	0.5+	2000 03 03	704	0.1+	0.6+				

(14377)* 1989 TX₂ = 1993 RA₁₈

Discovered 1989 Oct. 7 by E. W. Elst at the European Southern Observatory.

Id. T. Kobayashi (*MPC* 25638)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23474057	ω	274.18307	–0.16106951	–0.98665196		
<i>a</i>	2.6026191	Ω	185.27023	+0.97697606	–0.15595306		
<i>e</i>	0.0775326	<i>i</i>	15.12646	+0.13990852	–0.04686734		
<i>P</i>	4.20	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 09 29	675	0.5+	1.6–	1989 10 08	809	0.6–	0.9+	2000 02 10	704	0.8+	0.5–
1989 09 29	675	1.2+	1.6–	1989 11 06	675	0.5+	0.2+	2000 02 10	704	0.8+	0.4+
1989 10 02	807	1.2+	0.2–	1989 11 06	675	0.5+	0.4+	2000 03 03	703	0.8+	0.4–
1989 10 03	071	2.3+	1.6+	1993 09 15	809	(5.8+	1.0+)	2000 03 03	703	1.0–	0.9+
1989 10 03	071	1.3+	1.5–	1993 09 15	809	(4.9+	0.8+)	2000 03 03	703	0.3+	0.3+
1989 10 03	809	0.9–	1.6+	1993 09 15	809	(4.3+	0.5–)	2000 03 03	703	0.1–	0.3+
1989 10 03	809	0.9–	1.4+	1993 09 22	809	(3.2+	6.0+)	2000 04 07	704	0.1–	0.1–
1989 10 03	809	1.0–	1.9+	1993 09 22	809	(3.4+	5.1+)	2000 04 07	704	0.7+	0.1+
1989 10 06	807	1.2+	0.1+	1993 09 22	809	(2.5+	3.8+)	2000 04 07	704	0.3+	0.1+
1989 10 07	809	1.7–	2.0–	1993 10 10	675	0.6–	0.4–	2000 04 07	704	0.1–	0.1–
1989 10 07	809	1.0–	1.6–	1993 10 10	675	0.5–	0.2+	2000 04 12	704	0.5–	0.8+
1989 10 07	809	1.8–	1.3–	1997 11 29	688	0.8+	0.3–	2000 04 12	704	0.2–	0.4–
1989 10 07	809	0.3–	0.4–	1997 11 29	688	0.6+	0.0	2000 04 12	704	0.1–	0.4–
1989 10 07	809	0.2+	0.3–	1998 11 16	426	0.8–	0.2–	2000 04 12	704	0.2–	0.1–
1989 10 07	809	0.2–	0.6+	1998 11 16	426	1.2–	0.1–	2000 04 12	704	0.1–	1.0–
1989 10 08	809	0.4–	0.1–	1998 11 19	426	0.1+	0.3–	2000 04 13	704	0.9–	1.3–
1989 10 08	809	0.2+	0.3+	1998 11 19	426	0.9+	0.2+	2000 04 13	704	(3.6–	1.9+)
1989 10 08	809	0.0	0.2+	1998 11 19	426	0.6+	0.7–	2000 04 13	704	0.0	0.2–
1989 10 08	809	0.0	0.6+	2000 02 10	704	0.6+	0.4+	2000 04 13	704	0.6–	0.1+
1989 10 08	809	0.4+	0.3+	2000 02 10	704	0.1+	0.2+				

(14378)* 1989 TA₁₆ = 1981 UV₂ = 1993 QO₁

Discovered 1989 Oct. 4 by H. Debehogne at the European Southern

Observatory.

Id. B. G. Marsden (*MPC* 22591)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23687393	ω	71.49364	+0.56700679	+0.82309226		
<i>a</i>	2.5869689	Ω	233.09033	–0.77002534	+0.51586583		
<i>e</i>	0.1638201	<i>i</i>	2.29189	–0.29251372	+0.23749018		
<i>P</i>	4.16	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 30	381	0.4–	0.2+	1993 09 18	010	(2.8+	2.5+)	2000 03 03	704	0.4+	0.9+
1981 10 30	381	0.8+	1.1+	1993 09 18	010	(2.0+	3.6+)	2000 03 03	704	0.6+	1.2+
1989 10 04	809	0.1–	0.5–	1993 09 18	010	(3.0+	3.4+)	2000 03 03	704	0.3+	1.3+
1989 10 04	809	0.3+	0.5–	1993 09 20	675	0.9+	0.0	2000 03 11	704	0.6+	0.1+
1989 10 04	809	0.7+	0.5–	1993 09 20	675	0.5+	0.1+	2000 03 11	704	1.1+	0.2+
1989 10 05	809	0.3–	0.6+	1997 07 09	691	0.3–	0.6+	2000 03 11	704	0.4+	0.0
1989 10 05	809	0.1+	0.4+	1997 07 09	691	0.0	0.7+	2000 03 11	699	0.2+	0.5+
1989 10 05	809	0.3+	0.4+	1997 07 09	691	0.4–	0.6+	2000 03 11	704	0.8+	0.2+
1989 10 08	809	0.4–	0.4–	1997 07 14	691	0.3–	0.5+	2000 03 11	699	0.1+	0.3+
1989 10 08	809	0.2–	0.0	1997 07 14	691	0.2–	0.4+	2000 03 11	699	0.2+	0.4+
1989 10 08	809	0.1+	0.3+	1997 07 14	691	0.1–	1.0+	2000 03 11	699	0.0	0.3+
1992 04 07	691	1.2–	0.2–	1998 12 15	704	1.6–	0.3+	2000 03 27	699	0.4+	0.2+
1992 04 07	691	0.6–	0.3–	1998 12 15	704	1.6–	0.3+	2000 03 27	699	0.5+	0.2–
1992 04 07	691	0.7–	0.4–	1998 12 15	704	0.5+	1.2+	2000 03 27	699	0.6–	0.3+
1993 08 16	010	0.3–	1.8+	1998 12 15	704	0.3+	0.3–	2000 03 27	699	0.1+	0.3+
1993 08 16	010	1.4–	1.3+	2000 02 29	704	0.2–	0.7+	2000 04 05	704	0.9+	0.1+
1993 08 16	010	0.9–	1.7+	2000 02 29	704	0.3+	0.9+	2000 04 05	704	0.1–	0.2–
1993 08 17	010	0.4+	0.6+	2000 02 29	704	0.5+	0.4+	2000 04 05	704	0.3–	1.0+
1993 09 14	691	0.3–	0.8–	2000 02 29	704	0.0	0.1+	2000 04 05	704	0.0	0.3–
1993 09 14	691	0.4–	0.5+	2000 03 03	704	0.7+	0.8+				
1993 09 14	691	0.6–	0.6+	2000 03 03	704	0.6+	1.1+				

(14379)* 1989 UM₄ = 1976 UH₃ = 1998 QT₉₈ = 2000 AT₂₀₃

Discovered 1989 Oct. 22 by A. Mrkos at Klet.

Id. A. Doppler (*MPC* 39144), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	117.84585		(2000.0)	P	Q
n	0.22567408	ω	184.35802	+0.72845668	-0.67048040
a	2.6718676	Ω	218.98604	+0.63512767	+0.73793944
e	0.1637008	i	12.92648	+0.25683401	+0.07682073
P	4.37	H	12.2	G 0.15	U 2

Residuals in seconds of arc

1976 10 24	381	0.9+	2.2+	1998 11 10	704	0.4-	0.3+	2000 03 09	704	0.1+	0.6+
1976 10 24	381	0.5-	0.0	1998 11 10	704	0.5-	0.1+	2000 03 13	704	0.1-	0.3+
1976 10 26	095	(2.2+	5.7+)	1998 11 23	699	0.0	0.2-	2000 03 13	704	0.0	0.3+
1989 10 22	046	1.5-	0.9+	1998 11 23	699	0.2+	0.0	2000 03 13	704	0.1-	0.3+
1989 10 22	046	1.6-	1.2+	1998 11 23	699	0.2+	0.3+	2000 03 13	704	0.2+	0.4+
1989 10 23	046	0.7-	0.4+	1999 02 04	704	0.8+	0.9-	2000 03 13	704	0.5+	0.5+
1989 10 23	046	2.2-	0.6-	1999 02 04	704	(1.4-	3.0-)	2000 03 28	608	0.3-	1.1+
1989 10 24	046	0.3+	1.1+	1999 02 04	704	1.1-	0.7-	2000 03 28	608	0.4-	0.5+
1989 10 24	046	0.6+	1.8+	1999 02 04	704	1.0-	1.2-	2000 03 28	608	0.1+	0.7-
1989 10 28	046	0.4+	1.7+	1999 02 04	704	0.1+	1.0-	2000 03 31	704	0.0	0.6+
1989 10 28	046	0.7+	1.2+	2000 01 10	704	0.3-	0.6+	2000 03 31	704	1.0-	0.4+
1992 05 02	809	(3.1+	1.0+)	2000 01 10	704	0.2-	0.5-	2000 03 31	704	0.7-	0.7-
1992 05 02	809	1.7+	1.3-	2000 01 10	704	0.6+	0.9+	2000 04 02	046	0.3-	0.5+
1992 05 02	809	(1.0+	2.9-)	2000 01 10	704	0.5+	0.3+	2000 04 02	046	0.5-	0.4+
1998 08 28	704	0.9-	0.5-	2000 01 10	704	0.9+	0.3+	2000 04 02	046	0.2-	0.2+
1998 08 28	704	0.8+	0.1-	2000 01 11	704	0.2-	0.5+	2000 04 06	046	0.1+	0.4+
1998 08 28	704	1.1+	0.6-	2000 01 11	704	0.3-	0.4-	2000 04 06	046	0.1+	0.3+
1998 08 28	704	0.0	0.2-	2000 01 11	704	0.3+	0.1+	2000 04 06	046	0.1+	0.6+
1998 08 28	704	0.1-	0.3+	2000 01 11	704	0.1-	0.6-	2000 04 07	704	(2.4+	0.5-)
1998 08 31	704	1.1+	1.1-	2000 01 11	704	0.2+	0.3-	2000 04 07	704	1.3+	0.1-
1998 08 31	704	0.5+	0.7-	2000 02 10	704	0.1+	0.9+	2000 04 07	704	(2.2+	0.8-)
1998 08 31	704	0.8-	1.0-	2000 02 10	704	0.4+	0.5+	2000 04 07	704	(2.3+	0.3+)
1998 08 31	704	0.7+	1.1-	2000 02 10	704	1.3-	0.1+	2000 04 07	704	(2.1+	1.0+)
1998 08 31	704	1.2+	1.3-	2000 03 09	704	0.4+	0.1+	2000 04 13	608	0.1+	0.9-
1998 11 10	704	0.3-	0.1+	2000 03 09	704	0.0	0.4+	2000 04 13	608	0.3+	0.4-
1998 11 10	704	0.8+	0.9-	2000 03 09	704	0.1+	0.3+	2000 04 13	608	0.0	0.4-
1998 11 10	704	0.2-	0.1-	2000 03 09	704	0.2+	0.6+				

(14380)* 1989 UC₆ = 2000 DJ

Discovered 1989 Oct. 30 by S. J. Bus at Cerro Tololo.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	216.71363		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22996656	ω	255.27473	+0.31826632	+0.90205438
a	2.6385152	Ω	37.67140	-0.57626519	+0.42829190
e	0.2413331	i	28.49448	-0.75274497	+0.05351588
P	4.29	H	12.5	G 0.15	U 2

Residuals in seconds of arc

1955 10 24	675	1.6-	0.8+	1998 11 16	704	0.4-	0.5-	2000 02 16	704	0.7+	0.5+
1955 10 24	675	1.4+	0.3-	1998 11 16	704	0.2-	0.3+	2000 02 25	704	0.2+	0.3-
1980 10 09	413	0.3-	1.3+	1998 11 16	704	0.4-	0.2+	2000 02 25	704	0.2+	0.1+
1980 10 09	413	0.9-	0.9-	1998 11 16	704	0.1+	0.9+	2000 02 25	704	0.4+	0.2-
1989 10 06	807	1.7-	0.5+	1999 12 13	704	0.9+	0.2+	2000 02 25	704	0.3+	0.6-
1989 10 30	807	0.7+	0.2-	1999 12 13	704	0.0	0.0	2000 02 25	704	0.6+	1.2-
1989 11 01	807	0.7+	0.1-	1999 12 13	704	0.6+	0.4+	2000 03 25	704	0.6-	0.1+
1989 11 01	807	0.9+	0.1-	1999 12 13	704	0.6+	0.4+	2000 03 25	704	0.1-	0.2+
1989 11 24	675	1.8+	0.4+	1999 12 13	704	0.7+	0.0	2000 03 25	704	0.8+	0.2+
1989 11 24	675	0.5-	0.8+	2000 01 08	699	0.6-	0.5-	2000 03 25	704	0.0	0.1+
1994 12 04	675	1.5-	0.4-	2000 01 08	699	0.5+	0.3-	2000 03 25	704	0.1-	0.7+
1994 12 04	675	1.0+	1.7-	2000 01 08	699	0.4-	0.2+	2000 04 10	699	1.1-	0.4+
1998 08 31	704	0.3-	1.4-	2000 02 16	704	0.4+	0.5-	2000 04 10	699	0.4-	0.5-
1998 08 31	704	0.8-	0.2-	2000 02 16	704	0.0	1.0-	2000 04 10	699	0.7-	0.6-
1998 08 31	704	0.3-	0.2-	2000 02 16	704	0.2-	1.5+	2000 04 10	699	1.2-	0.1+
1998 08 31	704	0.4+	0.2+	2000 02 16	704	0.1+	1.1+				

(14381)* 1990 CE = 1998 OP₃

Discovered 1990 Feb. 1 by A. Sugie at the Dynic Astronomical Observatory.

Id. G. V. Williams (*MPC* 32221)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	331.91309		(2000.0)	P	Q
n	0.28656837	ω	335.03353	-0.71132753	-0.70214683
a	2.2785080	Ω	160.25833	+0.65958080	-0.68241539
e	0.0949907	i	5.37985	+0.24282978	-0.20322171
P	3.44	H	14.7	G 0.15	U 2

Residuals in seconds of arc

1990 01 21	402	0.6-	0.5+	1998 07 24	910	0.2+	0.7+	1999 12 14	704	0.8+	1.0-
1990 01 21	402	1.2+	0.5+	1998 07 26	910	0.1-	0.9+	1999 12 14	704	1.0-	0.3+
1990 02 01	402	0.7+	1.9+	1998 07 27	910	0.4-	0.9+	2000 01 05	704	0.2-	0.3+
1990 02 01	402	0.1+	1.8+	1998 07 27	910	0.3-	0.9+	2000 01 05	704	0.0	0.7-
1990 02 02	402	(3.2-	0.1-)	1999 10 10	704	0.1-	1.4+	2000 01 05	704	0.2-	0.4-
1990 02 02	402	(3.6-	0.6+)	1999 10 10	704	0.8-	0.9+	2000 01 05	704	0.1+	0.1-
1990 02 16	402	0.6-	0.2-	1999 10 10	704	0.2+	0.5-	2000 01 05	704	0.7+	0.8-
1990 02 16	402	(3.1+	0.9-)	1999 10 10	704	0.1-	0.2-	2000 01 07	704	0.1-	0.4+
1995 08 25	809	1.1-	1.1+	1999 11 04	704	0.2+	0.6-	2000 01 07	704	0.1+	0.1+
1995 08 26	809	0.6-	0.4+	1999 11 04	704	0.3+	0.7-	2000 01 07	704	0.1+	0.5+
1995 09 19	809	1.4+	0.6-	1999 11 04	704	0.1+	0.6-	2000 01 07	704	0.2+	0.0
1995 09 20	809	0.2+	0.9-	1999 11 04	704	0.1+	0.3-	2000 01 07	704	0.3+	0.1+
1995 09 23	809	0.1+	1.2+	1999 12 06	704	0.3-	0.1+	2000 02 02	704	0.5+	1.1+
1995 09 23	809	(5.5+	0.3-)	1999 12 06	704	0.2-	0.4-	2000 02 02	704	0.6+	0.7+
1995 09 24	809	0.6-	0.0	1999 12 06	704	0.1+	0.0	2000 02 02	704	0.6-	0.3-
1998 06 02	699	(48.9-	1.0-)	1999 12 06	704	0.2+	0.3+	2000 02 02	704	0.6-	0.6+
1998 06 02	699	(50.2-	2.4+)	1999 12 06	704	0.0	0.0	2000 02 03	704	0.4+	0.4+
1998 06 02	699	(52.2-	5.5+)	1999 12 14	704	0.5-	0.2+	2000 02 03	704	0.1-	1.1+
1998 07 23	910	0.2+	0.9+	1999 12 14	704	0.4-	0.4+	2000 02 03	704	0.3+	0.1+
1998 07 24	910	0.2-	0.7+	1999 12 14	704	0.2-	0.2-	2000 02 03	704	0.2+	0.4-

(14382)* 1990 ES₆ = 1978 XR = 1998 XS₇₄

Discovered 1990 Mar. 2 by H. Debehogne at the European Southern Observatory.

Id. A. Doppler (*MPC* 33928), M. E. Sansaturio (*MPC* 35912)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	123.11099		(2000.0)	P	Q
n	0.19939807	ω	195.07100	+0.77323739	-0.63403405
a	2.9017194	Ω	204.28649	+0.58433427	+0.71870946
e	0.0551253	i	1.42600	+0.24628725	+0.28540767
P	4.94	H	12.7	G 0.15	U 1

Residuals in seconds of arc

1978 12 03	675	0.3+	0.2+	2000 01 06	699	0.7-	0.7+	2000 03 03	704	0.1+	0.3-
1978 12 03	675	0.2-	0.6+	2000 01 06	699	0.5-	0.2-	2000 03 03	704	0.2+	0.2-
1978 12 05	675	1.3+	2.0+	2000 01 06	699	0.7-	0.1+	2000 03 08	704	0.4-	0.5+
1978 12 06	675	0.4-	0.4-	2000 01 08	704	0.7-	0.3-	2000 03 08	704	0.4+	0.5-
1978 12 06	675	0.6-	0.1+	2000 01 08	704	0.0	0.3-	2000 03 08	704	0.1+	0.7+
1990 03 02	809	0.9-	0.8-	2000 01 08	704	0.8-	1.1-	2000 03 08	704	(0.2-	3.0+)
1990 03 02	809	0.7-	0.8-	2000 01 08	704	0.3-	0.5+	2000 03 08	704	0.5+	0.6+
1990 03 02	809	0.5-	0.8-	2000 01 08	704	0.0	1.3-	2000 03 11	704	1.3+	1.5-
1990 03 03	809	0.0	0.6+	2000 02 02	704	0.5+	0.3-	2000 03 11	704	0.1+	0.1+
1990 03 03	809	0.2+	0.2+	2000 02 02	704	0.9+	0.2-	2000 03 11	704	0.5-	0.1+
1990 03 03	809	0.6+	0.3+	2000 02 02	704	0.3+	0.7-	2000 03 11	704	0.0	0.3-
1990 03 06	809	0.1-	1.0+	2000 02 02	704	0.1+	0.3-	2000 03 11	704	0.3-	0.1-
1990 03 06	809	0.0	1.2+	2000 02 02	704	0.5-	0.1+	2000 04 02	699	0.5-	0.4+
1990 03 06	809	0.0	1.1+	2000 02 06	704	0.1-	0.1-	2000 04 02	699	0.9-	0.4-
1996 06 12	566	0.1+	0.6-	2000 02 06	704	0.5-	0.4-	2000 04 02	699	0.6+	0.2+
1996 06 12	566	0.4-	0.6-	2000 02 06	704	0.3-	0.1-	2000 04 02	699	0.9+	0.2+
1996 06 12	566	0.0	0.0	2000 02 06	704	0.1-	0.0	2000 04 05	704	(4.1+	2.8+)
1997 11 02	327	0.9-	0.0	2000 02 07	704	0.3-	0.3-	2000 04 05	704	0.3-	1.0+
1997 11 02	327	0.0	0.7+	2000 02 07	704	0.2-	0.5-	2000 04 05	704	0.5+	0.4+
1997 11 02	327	0.1-	0.7+	2000 02 07	704	0.3+	0.2+	2000 04 05	704	0.4+	0.1+
1998 12 15	704	0.5-	1.3-	2000 02 07	704	0.3-	0.1-	2000 04 05	704	0.0	0.5-

1998 12 15	704	0.5−	0.4−	2000 02 07	704	0.4−	0.2+	2000 04 05	704	0.7−	0.7+
1998 12 15	704	0.7−	0.1−	2000 02 27	703	0.4+	0.3+	2000 04 05	704	0.6+	0.2+
1998 12 15	704	0.3+	0.0	2000 02 27	703	0.4+	0.3+	2000 04 05	704	0.2+	0.1−
1998 12 15	704	0.6−	0.6−	2000 02 27	703	0.3−	0.5+	2000 04 05	704	0.4+	0.0
1998 12 16	704	0.7+	0.6−	2000 02 27	703	0.0	0.4−	2000 04 05	704	0.3+	0.5+
1998 12 16	704	0.0	0.4−	2000 02 29	704	0.8+	0.0	2000 04 08	704	0.8+	0.1+
1998 12 16	704	1.4−	0.3+	2000 02 29	704	0.1−	0.1+	2000 04 08	704	0.3+	0.5+
1998 12 16	704	0.3−	1.1+	2000 02 29	704	0.2−	0.4+	2000 04 08	704	0.6+	0.4+
1998 12 16	704	0.8−	0.5+	2000 02 29	704	0.1−	0.6+	2000 04 08	704	0.0	0.5+
1998 12 22	704	1.1+	0.1+	2000 02 29	704	0.1−	0.4+	2000 04 09	608	0.2−	0.2−
1998 12 22	704	1.3+	0.0	2000 03 03	704	0.1−	0.1+	2000 04 09	608	0.1−	0.4−
1998 12 22	704	0.5+	0.5−	2000 03 03	704	0.5+	0.0	2000 04 09	608	0.1+	0.6−
1998 12 22	704	0.7+	0.4−	2000 03 03	704	0.4+	0.4−				

(14383)* 1990 OY₃ = 1979 OS₁₅

Discovered 1990 July 27 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 29097)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		213.68434		(2000.0)		P		Q	
<i>n</i>		0.26981668	ω	6.22142		+0.87554153		+0.47942782	
<i>a</i>		2.3718662	Ω	324.92783		−0.44764034		+0.75839748	
<i>e</i>		0.1346142	<i>i</i>	5.97361		−0.18178326		+0.44156792	
<i>P</i>		3.65	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1979 07 30	095	(0.7+	4.1−)	1998 12 14	704	0.1−	0.3+	2000 03 13	704	0.0	1.0−
1989 03 09	675	0.1−	1.1+	1998 12 14	704	1.7−	0.5−	2000 03 14	608	0.0	0.5−
1989 03 09	675	0.8+	0.7+	1998 12 14	704	0.5−	0.3+	2000 03 14	608	0.1+	0.9−
1990 07 27	675	0.4−	0.3+	1998 12 14	704	0.9+	0.6+	2000 03 14	608	0.3+	0.1−
1990 07 27	675	0.5−	0.5+	1998 12 14	704	1.1+	0.7+	2000 03 26	699	0.4−	0.2+
1990 07 30	675	0.7−	0.6+	1998 12 17	704	0.5+	0.8−	2000 03 26	699	0.0	0.0
1990 07 30	675	0.0	0.8−	1998 12 17	704	0.3+	1.0−	2000 03 26	699	0.1−	0.0
1990 08 15	511	0.7+	0.3+	1998 12 17	704	(1.9+	2.1−)	2000 03 26	699	0.1−	0.1+
1990 08 15	511	0.1+	0.4+	1998 12 17	704	(1.0+	3.0−)	2000 04 07	704	0.3+	0.7−
1990 08 16	511	1.0+	0.9+	1998 12 17	704	0.4+	1.0−	2000 04 07	699	0.2+	0.4+
1990 08 17	046	1.2−	1.9+	1999 01 11	704	1.6+	0.8+	2000 04 07	704	0.0	0.7−
1990 08 17	046	(2.2+	0.2+)	1999 01 11	704	1.1−	0.1+	2000 04 07	704	0.8+	0.2+
1990 08 20	511	1.2+	1.3+	1999 01 11	704	(0.7−	2.4+)	2000 04 07	699	0.0	0.1+
1990 08 20	511	(4.3+	0.1+)	1999 01 11	704	0.3−	0.8+	2000 04 07	704	0.0	0.6+
1990 08 20	511	1.2+	0.2+	1999 01 11	704	0.1−	0.5−	2000 04 07	699	0.6−	0.3+
1990 08 21	511	(3.7+	1.8+)	2000 03 03	703	0.3−	0.0	2000 04 07	704	0.5+	1.1+
1990 08 22	511	1.7−	1.3−	2000 03 03	703	0.5−	0.3+	2000 04 07	699	0.2−	0.3+
1990 08 22	511	0.7+	0.3−	2000 03 03	703	0.1−	0.1+	2000 04 08	704	0.5−	0.5−
1990 09 14	675	0.2+	1.0−	2000 03 03	703	0.3−	0.2+	2000 04 08	704	0.7−	0.0
1990 09 14	675	0.1−	0.6−	2000 03 09	704	0.3+	0.3+	2000 04 08	704	0.6−	0.0
1990 09 16	675	0.2−	0.4−	2000 03 09	704	0.0	0.2−	2000 04 08	704	0.8−	0.1−
1990 09 16	675	0.0	0.5−	2000 03 09	704	0.5+	0.4+	2000 04 08	704	0.9−	0.4+
1990 09 18	675	(0.0	2.4−)	2000 03 09	704	0.2−	0.1+	2000 04 10	704	0.4+	0.4+
1990 09 18	675	0.0	1.4−	2000 03 09	704	0.1−	0.5+	2000 04 10	704	(2.1+	2.7+)
1994 10 01	675	0.3−	1.5+	2000 03 13	704	0.0	0.3−	2000 04 10	704	1.3+	0.4+
1994 10 01	675	1.1−	0.2+	2000 03 13	704	0.5+	0.9−	2000 04 10	704	0.8+	1.2+
1994 11 29	675	0.1−	0.5−	2000 03 13	704	0.0	0.6−				
1994 11 29	675	0.4−	0.9+	2000 03 13	704	0.4+	0.9−				

(14384)* 1990 OH₄ = 1979 OV₈

Discovered 1990 July 24 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 16882)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		286.82344		(2000.0)		P		Q	
<i>n</i>		0.17948762	ω	98.06232		+0.17315722		+0.98488545	
<i>a</i>		3.1125265	Ω	181.92394		−0.94530132		+0.16501213	
<i>e</i>		0.1262451	<i>i</i>	7.10034		−0.27644528		+0.05264636	
<i>P</i>		5.49	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1979 07 24	413	1.5−	0.6−	1996 09 15	691	0.1−	0.3+	2000 03 14	703	0.3+	0.4+
1979 07 26	675	0.4+	0.2+	1996 09 15	691	0.5−	0.8−	2000 03 14	703	0.0	0.1+
1979 07 28	413	0.5+	0.8−	1996 09 15	691	0.6−	0.0	2000 04 05	704	0.0	0.2−
1990 07 24	675	0.7+	0.1−	1996 10 05	809	(0.3+	2.6−)	2000 04 05	704	1.8+	1.1+
1990 07 24	675	0.3−	0.6+	1996 10 05	809	(0.4−	2.3−)	2000 04 05	704	0.2−	1.1+
1990 07 27	675	0.2−	1.2+	1996 10 05	809	0.1+	0.6−	2000 04 05	704	0.2−	0.5−
1990 07 27	675	0.2−	0.1−	1996 10 06	809	1.3+	1.5−	2000 04 05	704	0.6−	0.5−
1990 07 28	675	0.4−	0.1+	1996 10 06	809	1.9+	0.2−	2000 04 06	704	0.1−	0.3+
1990 07 28	675	(1.0+	2.2+)	1996 10 06	809	(2.3+	0.5−)	2000 04 06	704	0.2−	0.1−
1990 07 29	675	1.0+	0.5+	1999 02 12	704	0.1+	0.6−	2000 04 06	704	0.3−	0.3−
1990 07 29	675	0.5+	1.3+	1999 02 12	704	0.6+	0.6−	2000 04 06	704	0.1−	0.1+
1990 07 30	675	(2.7+	0.5+)	1999 02 12	704	0.5−	0.4−	2000 04 06	704	0.4−	0.1−
1990 07 30	675	0.9+	0.2+	1999 02 12	704	(3.3−	0.1+)	2000 04 07	704	0.2−	0.0
1995 05 31	801	0.5−	0.1−	2000 03 09	704	0.3+	0.4+	2000 04 07	704	0.4−	0.1+
1995 05 31	801	0.4−	0.7−	2000 03 09	704	0.0	0.5+	2000 04 07	704	0.3−	0.4−
1995 05 31	608	0.8−	0.7−	2000 03 09	704	0.2+	0.8+	2000 04 07	704	0.4−	0.0
1995 05 31	608	0.6+	1.3−	2000 03 09	704	0.1+	0.9+	2000 04 12	608	0.2+	0.5−
1995 06 28	801	(2.3+	2.2−)	2000 03 09	704	(0.2−	3.2+)	2000 04 12	608	0.2+	0.3−
1996 09 13	691	1.2−	0.2+	2000 03 14	703	0.0	0.5−	2000 04 12	608	0.2+	1.0−
1996 09 13	691	1.2−	0.1+	2000 03 14	703	0.1+	0.1−				

(14385)* 1990 QG₁ = 1998 XM₅₁

Discovered 1990 Aug. 22 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33478)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		227.46863		(2000.0)		P		Q	
<i>n</i>		0.27176582	ω	350.94916		+0.90913544		+0.41535382	
<i>a</i>		2.3605117	Ω	344.39851		−0.37458595		+0.78297171	
<i>e</i>		0.1359846	<i>i</i>	6.59455		−0.18209373		+0.46307291	
<i>P</i>		3.63	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1990 08 16	809	1.4−	0.3−	1990 09 15	809	1.0+	1.2+	1999 01 16	704	1.4−	0.3+
1990 08 16	809	0.6−	0.6−	1990 09 16	809	0.2+	0.7+	1999 01 16	732	0.2+	0.3+
1990 08 16	809	(2.2−	0.8−)	1990 09 16	809	0.4−	0.6+	1999 01 16	704	0.7−	0.1+
1990 08 20	809	0.5−	0.6+	1990 09 16	809	0.6−	0.7+	1999 01 16	704	0.1−	0.2+
1990 08 20	809	1.1−	1.2+	1990 09 19	675	0.0	1.9−	1999 01 16	704	1.5+	1.6+
1990 08 20	809	1.4−	1.0+	1990 09 19	675	(0.6+	2.3−)	2000 03 10	704	0.8+	0.2−
1990 08 22	675	0.7+	0.4+	1990 09 20	675	(3.2−	1.9−)	2000 03 10	704	0.1+	0.3+
1990 08 22	675	0.1+	0.5−	1990 09 20	675	2.0−	0.5−	2000 03 10	704	0.2−	1.0+
1990 08 23	675	0.0	1.1−	1996 02 14	691	0.3+	0.4+	2000 03 14	704	0.2+	0.2+
1990 08 23	675	0.2−	1.1−	1996 02 14	691	0.1+	0.3+	2000 03 14	704	0.2−	0.5+
1990 08 26	809	1.1−	1.8+	1996 02 14	691	0.1−	0.2+	2000 03 14	704	0.7+	0.9+
1990 08 26	809	(0.7−	2.1+)	1998 11 21	699	1.1+	0.9+	2000 03 14	704	0.0	0.2+
1990 08 26	809	0.8−	1.8+	1998 11 21	699	0.1+	0.7+	2000 03 14	704	0.2+	0.0
1990 08 27	675	(0.3+	3.2−)	1998 11 21	699	(0.3−	2.5+)	2000 04 07	704	0.0	0.2−
1990 08 27	675	0.2−	1.4−	1998 12 14	704	0.4+	1.4−	2000 04 07	704	0.2+	0.3+
1990 08 28	675	1.3+	1.2−	1998 12 14	704	0.4+	0.2−	2000 04 07	704	0.0	0.9+
1990 08 28	675	1.8+	0.1−	1998 12 14	704	(2.7+	1.1−)	2000 04 07	704	0.3+	0.2−
1990 08 28	095	0.4+	0.4−	1998 12 14	704	0.1−	1.2−	2000 04 08	704	0.1−	0.0
1990 08 28	095	0.5+	0.1−	1998 12 14	704	0.4−	0.4+	2000 04 08	704	0.1+	0.3−
1990 09 13	809	0.5−	0.2+	1998 12 17	704	0.6+	0.1−	2000 04 08	704	0.3+	0.4−
1990 09 13	809	0.2+	0.3+	1998 12 17	704	0.3+	0.6−	2000 04 08	704	0.1+	0.4−
1990 09 13	809	1.0+	0.3+	1998 12 17	704	0.1+	0.1−	2000 04 08	704	0.4+	0.7−
1990 09 14	809	0.3−	0.2−	1998 12 17	704	0.0	0.2+	2000 04 10	704	0.2−	0.6+
1990 09 14	809	0.4+	0.2−	1998 12 17	704	0.8+	1.4+	2000 04 10	704	0.8−	0.1−
1990 09 14	809	0.5+	0.0	1999 01 15	732	0.4−	0.4+	2000 04 10	704	0.2−	0.5+
1990 09 14	675	(2.0+	1.8−)	1999 01 15	732	1.0−	0.2+	2000 04 10	704	0.2−	0.0
1990 09 14	675	(1.1+	2.2−)	1999 01 16	732	0.4−	0.4−	2000 04 10	704	0.5+	0.6+
1990 09 15	809	0.2+	1.3+	1999 01 16	732	0.5−	0.4−				
1990 09 15	809	0.7+	1.0+	1999 01 16	732	0.1−	0.3−				

2000 APR. 18

M.P.C. 39815

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.17139		(2000.0)	P	Q
<i>n</i>	0.27230993	ω	335.50320	+0.79009989	+0.61231246
<i>a</i>	2.3573663	Ω	346.62312	−0.54007248	+0.67333484
<i>e</i>	0.1372088	<i>i</i>	7.09077	−0.28993772	+0.41435932
<i>P</i>	3.62	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1954 11 23	675	0.4+	1.3+	1990 09 20	675	0.6+	1.0−	2000 03 14	704	0.1−	0.6+
1954 11 23	675	1.2−	0.9+	1990 09 20	675	0.0	1.7−	2000 03 14	704	0.5−	0.3+
1978 03 15	675	0.7+	0.3+	1990 09 27	809	0.9+	1.5+	2000 03 14	704	0.0	0.3+
1978 03 16	675	1.3−	0.5+	1990 09 27	809	1.2+	1.3+	2000 03 14	704	0.1−	0.1−
1990 08 22	675	0.7−	0.7−	1990 09 27	809	1.7+	1.3+	2000 03 14	704	0.8−	0.9+
1990 08 22	675	1.1−	1.6−	1990 09 28	809	0.3−	1.9+	2000 03 30	704	0.3+	1.9+
1990 08 24	675	0.6−	0.2−	1990 09 28	809	0.1−	1.7+	2000 03 30	704	(1.7− 2.4+)	
1990 08 24	675	1.2−	0.5−	1990 09 28	809	0.0	1.5+	2000 03 30	704	(3.6− 1.2+)	
1990 08 28	675	0.5−	1.7−	1998 12 17	704	0.6+	1.6+	2000 04 07	704	1.0+	0.3−
1990 08 28	675	(0.6− 2.9−)		1998 12 17	704	1.1−	0.9−	2000 04 07	704	0.7+	0.0
1990 09 14	675	1.8+	1.3−	1998 12 17	704	0.9+	1.4−	2000 04 07	704	0.7+	0.6−
1990 09 14	675	(0.8+ 2.5−)		1998 12 17	704	0.0	1.1−	2000 04 07	704	0.5+	0.5−
1990 09 16	675	0.7−	0.4+	1999 01 16	704	0.1+	1.1+	2000 04 07	704	0.3+	0.3−
1990 09 16	675	0.1−	0.0	1999 01 16	704	0.5−	0.7−	2000 04 08	704	0.3+	0.5+
1990 09 19	675	1.8−	0.2−	1999 01 16	704	(2.3− 2.0−)		2000 04 08	704	0.6−	0.1+
1990 09 19	675	0.0	0.1+	1999 01 16	704	0.7−	0.2+	2000 04 08	704	0.5+	0.7−

(14387)* 1990 QE₅ = 1998 XV₇₁

Discovered 1990 Aug. 25 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33478)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.89578		(2000.0)	P	Q
<i>n</i>	0.27118584	ω	311.15911	+0.66159599	+0.74986029
<i>a</i>	2.3638761	Ω	0.26441	−0.64829114	+0.57234298
<i>e</i>	0.1279617	<i>i</i>	6.70230	−0.37684127	+0.33186302
<i>P</i>	3.63	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1990 08 23	675	1.0−	0.1−	1998 12 14	704	1.0−	0.9−	2000 04 05	704	0.4+	0.1−
1990 08 23	675	0.2−	0.7−	1998 12 17	704	0.1−	0.4+	2000 04 05	704	0.2+	0.2−
1990 08 25	675	0.1−	0.5−	1998 12 17	704	0.5−	0.1+	2000 04 05	704	0.3+	0.2−
1990 08 25	675	0.3−	0.5+	1998 12 17	704	0.2+	0.6−	2000 04 05	704	0.3+	0.8−
1990 08 26	675	0.3+	0.5+	1998 12 17	704	0.1+	1.5+	2000 04 06	704	0.4+	0.1+
1990 08 26	675	0.2−	0.2+	1998 12 17	704	0.7−	0.3+	2000 04 06	704	0.3+	0.2−
1990 08 27	675	0.1+	1.8−	2000 03 09	704	0.3−	0.1+	2000 04 06	704	0.1−	0.3+
1990 08 27	675	0.7+	0.2+	2000 03 09	704	0.2+	0.4+	2000 04 06	704	0.0	0.2−
1990 09 12	809	0.0	0.2+	2000 03 09	704	0.2+	0.6+	2000 04 06	704	0.4+	0.2−
1990 09 12	809	0.5+	0.0	2000 03 09	704	0.7−	0.6+	2000 04 07	699	0.1−	0.2+
1990 09 12	809	0.9+	0.2+	2000 03 09	704	0.6−	0.2+	2000 04 07	699	0.4−	0.4+
1990 09 13	675	1.7−	0.2−	2000 03 10	704	0.1+	0.3−	2000 04 07	699	0.0	0.1−
1990 09 13	675	1.3−	0.4+	2000 03 10	704	0.1−	0.1−	2000 04 07	704	0.4−	0.1+
1990 09 14	809	0.5−	0.5+	2000 03 10	704	0.7+	0.4+	2000 04 07	699	0.4−	0.5+
1990 09 14	809	0.0	0.7+	2000 03 10	704	0.1+	0.2+	2000 04 07	704	0.2+	0.4+
1990 09 14	809	0.6+	0.7+	2000 03 11	704	0.4+	0.2−	2000 04 07	704	0.9−	0.3+
1990 09 15	809	0.1−	0.2+	2000 03 11	704	0.1−	0.4+	2000 04 08	704	0.3−	0.6+
1990 09 15	809	0.0	0.3+	2000 03 11	704	0.3+	0.4+	2000 04 08	704	0.1−	0.8−
1990 09 15	809	0.3+	0.2+	2000 03 11	704	0.2+	1.9−	2000 04 08	704	0.9+	0.5+
1990 09 18	675	1.2+	0.3−	2000 03 29	691	0.3−	0.6−	2000 04 08	704	0.6−	0.1−
1990 09 18	675	0.2+	0.0	2000 03 29	691	0.3−	0.7−	2000 04 08	704	0.2+	0.7+
1996 02 19	691	0.2−	0.1+	2000 03 29	691	0.3−	0.6−	2000 04 10	704	0.3+	0.8+
1996 02 19	691	0.2+	0.0	2000 04 02	699	0.4−	0.2+	2000 04 10	704	1.5+	0.4+
1996 02 19	691	0.0	0.0	2000 04 02	699	0.2+	0.0	2000 04 10	704	0.4−	0.4−
1998 12 14	704	0.1+	0.1−	2000 04 02	699	0.6−	0.3+	2000 04 10	704	0.6−	0.1−
1998 12 14	704	1.6+	0.4−	2000 04 02	699	0.1+	0.3−				
1998 12 14	704	0.3+	0.3+	2000 04 05	704	0.8+	0.3+				

(14388)* 1990 QO₅ = 1994 WT₅

Discovered 1990 Aug. 29 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 24563)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	277.81062		(2000.0)	P	Q
<i>n</i>	0.27637792	ω	213.44547	+0.30662304	+0.95140116
<i>a</i>	2.3341772	Ω	74.42446	−0.86664901	+0.29148216
<i>e</i>	0.1240420	<i>i</i>	1.70157	−0.39357566	+0.09936792
<i>P</i>	3.57	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1990 08 16	809	0.8−	0.4−	1990 08 29	675	0.3+	1.0+	2000 03 14	703	0.2−	0.5+
1990 08 16	809	0.4−	0.1+	1990 09 16	675	1.4+	0.2−	2000 03 14	703	1.1−	0.0
1990 08 16	809	0.0	0.5−	1990 09 16	675	0.7+	0.1+	2000 04 05	704	0.0	0.0
1990 08 18	809	1.6+	0.6+	1994 11 04	675	0.1−	0.9−	2000 04 05	704	0.2−	0.1+
1990 08 18	809	0.2+	0.8+	1994 11 28	691	0.4−	0.2+	2000 04 05	704	0.3+	0.0
1990 08 18	809	0.9−	1.2+	1994 11 28	691	0.0	0.0	2000 04 05	704	0.3+	0.1−
1990 08 22	675	0.1+	1.6+	1994 11 28	691	0.1−	0.1−	2000 04 05	704	0.0	0.2−
1990 08 22	675	0.1−	1.3+	1994 12 03	691	0.1+	0.2+	2000 04 06	704	0.3+	0.2−
1990 08 24	809	0.1−	1.9−	1994 12 03	691	0.0	0.2+	2000 04 06	704	0.2+	0.4+
1990 08 24	809	0.2−	1.7−	1994 12 03	691	0.2+	0.3+	2000 04 06	704	0.1−	0.0
1990 08 24	809	0.8−	1.5−	1997 07 08	688	0.2−	0.7+	2000 04 06	704	0.1−	0.2+
1990 08 26	809	1.3−	0.8−	1998 12 17	704	0.0	0.6+	2000 04 06	704	0.2+	0.4+
1990 08 26	809	0.6−	0.2+	1998 12 17	704	0.3−	0.4−	2000 04 07	704	0.2+	0.1−
1990 08 26	809	0.8−	0.4−	1998 12 17	704	0.6−	0.8+	2000 04 07	704	0.4+	0.2−
1990 08 27	675	(0.4+ 2.6−)		1998 12 17	704	1.1+	0.5−	2000 04 07	704	(0.1+ 2.4+)	
1990 08 27	675	1.6+	0.6−	2000 03 14	703	0.1+	1.0−	2000 04 07	704	0.4+	0.1+
1990 08 29	675	0.6+	0.6+	2000 03 14	703	0.1+	0.7−	2000 04 07	704	1.2−	0.6+

(14389)* 1990 QR₅ = 1972 HO = 1993 BO₁₅

Discovered 1990 Aug. 26 by H. E. Holt at Palomar.

Id. T. B. Spahr (*MPC* 30653), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	270.80535		(2000.0)	P	Q
<i>n</i>	0.17314086	ω	171.65762	+0.46247401	+0.88586520
<i>a</i>	3.1881323	Ω	125.88137	−0.81607459	+0.44156575
<i>e</i>	0.1754519	<i>i</i>	2.60936	−0.34661226	+0.14234650
<i>P</i>	5.69	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1972 04 18	095	0.6+	1.7+	1993 01 21	691	0.5−	0.8−	2000 03 29	704	0.4−	0.3−
1990 08 16	809	0.5+	1.8−	1998 12 26	910	0.2−	0.3+	2000 03 29	704	0.3+	0.5−
1990 08 16	809	(0.2+ 2.4−)		1998 12 26	910	0.2−	0.1+	2000 03 29	704	0.4−	1.4−
1990 08 16	809	(0.3+ 2.2−)		1998 12 26	910	0.2+	0.2−	2000 04 02	699	0.4+	1.0+
1990 08 18	809	1.4+	0.9−	1999 01 18	691	0.0	0.5−	2000 04 02	699	0.1−	0.2+
1990 08 18	809	0.4+	1.8−	1999 01 18	691	0.1+	0.7−	2000 04 02	699	0.1−	0.3+
1990 08 18	809	0.7−	1.4−	1999 01 21	910	0.0	0.8−	2000 04 02	699	0.4+	0.4+
1990 08 22	675	0.2−	0.5−	1999 01 21	910	0.2−	0.7−	2000 04 04	704	0.0	0.1−
1990 08 22	675	1.1−	0.4−	1999 01 21	910	0.4−	0.9−	2000 04 04	704	0.4−	0.3+
1990 08 24	809	1.8+	0.5−	1999 02 10	704	1.1+	0.1−	2000 04 04	704	0.4−	0.0
1990 08 24	809	1.1+	1.1−	1999 02 10	704	0.6−	0.5−	2000 04 04	704	0.1+	0.2−
1990 08 24	809	1.5+	0.2−	1999 02 10	704	0.5+	0.0	2000 04 04	704	0.1−	0.5−
1990 08 26	809	0.3+	0.6+	1999 02 10	704	0.6+	0.6−	2000 04 06	699	0.0	0.3−
1990 08 26	809	0.9+	1.3+	1999 02 10	704	0.4−	0.1−	2000 04 06	699	0.2−	0.2−
1990 08 26	809	0.7+	1.5+	2000 03 01	703	1.1−	0.3−	2000 04 06	699	0.1−	0.1−
1990 08 26	675	0.0	1.1−	2000 03 01	703	0.8−	0.4−	2000 04 06	699	0.2−	0.4−
1990 08 26	675	0.2+	1.2−	2000 03 01	703	(3.3+ 0.9+)		2000 04 08	704	0.3+	0.3+
1990 09 13	675	0.9−	0.2+	2000 03 01	703	0.8−	0.6+	2000 04 08	704	0.1−	0.2−
1990 09 13	675	0.8−	0.3−	2000 03 08	704	0.0	1.0−	2000 04 08	704	0.3+	0.4−
1990 09 16	675	0.0	1.6−	2000 03 08	704	0.2−	1.0−	2000 04 08	704	0.3−	0.6−
1990 09 16	675	0.1−	1.0−	2000 03 08	704	0.5−	0.5−	2000 04 10	704	0.2+	0.0
1990 09 18	675	1.0−	0.3+	2000 03 08	704	0.2+	0.4−	2000 04 10	704	0.3+	0.4−
1990 09 18	675	0.5+	0.1+	2000 03 08	704	0.1−	0.8−	2000 04 10	704	0.0	0.3−
1993 01 21	691	0.5−	1.0−	2000 03 29	704	0.3−	0.3−	2000 04 10	704	0.0	0.3−
1993 01 21	691	0.7−	0.2−	2000 03 29	704	0.1+	0.0	2000 04 10	704	0.0	0.1−

(14390)* 1990 QP₁₀ = 1973 SC₃ = 1982 FO₂ = 1996 TY₆₁

Discovered 1990 Aug. 26 by H. E. Holt at Palomar.

Id. A. Doppler (*MPC* 33677)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	243.27086		(2000.0)	P	Q
<i>n</i>	0.16911806	ω	311.99259	+0.74651511	+0.66524699
<i>a</i>	3.2384912	Ω	6.34380	-0.57138334	+0.65074158
<i>e</i>	0.1150964	<i>i</i>	6.60722	-0.34093440	+0.36603530
<i>P</i>	5.83	<i>H</i>	12.1	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1973 09 22	095	1.2+	0.3+	1999 02 10	704	1.1-	0.0	2000 04 05	704	0.3-	0.5+
1982 03 24	033	0.5-	0.0	1999 02 10	704	0.7-	0.3+	2000 04 06	704	0.5-	0.2+
1982 03 24	033	0.7-	0.4+	1999 02 10	704	0.4-	0.2-	2000 04 06	704	1.4-	0.4-
1990 08 26	675	(0.3-	2.6-)	1999 02 13	704	0.0	1.9+	2000 04 06	704	0.3+	0.2+
1990 08 26	675	(0.7-	2.2-)	1999 02 13	704	0.2-	0.0	2000 04 06	704	0.3-	0.4-
1990 09 16	675	0.4-	1.3-	1999 02 13	704	0.0	0.5-	2000 04 06	704	(2.9+	0.4+)
1990 09 16	675	0.6-	1.1-	1999 02 13	704	0.0	0.8+	2000 04 06	704	0.4-	0.3-
1996 10 06	809	0.0	1.0+	1999 02 13	704	0.0	0.5-	2000 04 06	704	0.5-	0.5-
1996 10 06	809	0.1-	0.8+	1999 02 19	566	0.1-	0.3+	2000 04 07	704	0.1+	0.0
1996 10 06	809	0.3+	1.0+	1999 02 19	566	0.4-	0.2+	2000 04 07	704	0.1+	0.0
1996 10 07	809	1.7-	1.7+	1999 02 19	566	0.1+	0.3+	2000 04 07	704	0.1+	0.1+
1996 10 07	809	(2.7-	1.5+)	2000 01 05	699	0.4+	0.9+	2000 04 07	704	0.3+	0.1-
1996 10 07	809	(2.4-	1.1+)	2000 01 05	699	0.3+	0.3-	2000 04 07	704	0.4+	0.1+
1997 12 06	704	0.6+	0.8-	2000 01 05	699	1.0+	0.0	2000 04 08	704	0.3+	0.4-
1997 12 06	704	0.2+	1.2-	2000 03 09	704	0.5+	0.3-	2000 04 08	704	0.2+	0.4-
1997 12 06	704	(2.5-	0.3-)	2000 03 09	704	0.1-	0.9-	2000 04 08	704	0.2+	0.0
1997 12 06	704	0.7-	0.8+	2000 03 09	704	0.3+	0.1-	2000 04 08	704	0.3+	0.2+
1997 12 06	704	(2.4-	0.6+)	2000 04 02	699	0.2-	0.3+	2000 04 08	704	0.0	0.1+
1999 01 19	704	1.0+	0.4-	2000 04 02	699	0.7-	0.7+	2000 04 10	704	0.3+	0.4-
1999 01 19	704	1.8+	0.0	2000 04 02	699	0.4-	0.5+	2000 04 10	704	1.0+	1.1-
1999 01 19	704	0.9+	0.5-	2000 04 02	699	0.7-	0.6+	2000 04 10	704	2.0+	1.1+
1999 01 19	704	0.8-	0.5-	2000 04 05	704	0.9-	0.3+	2000 04 10	704	0.7+	0.0
1999 01 19	704	1.0+	0.6-	2000 04 05	704	0.0	0.1+	2000 04 10	704	0.3+	0.1+
1999 02 10	704	0.6-	0.5+	2000 04 05	704	0.1+	0.3+				
1999 02 10	704	0.0	0.4+	2000 04 05	704	0.1+	0.2+				

(14391)* 1990 RE₂ = 1986 PB₇ = 1992 EC₁₃

Discovered 1990 Sept. 14 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 23859)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	140.37058		(2000.0)	P	Q
n	0.25569280	ω	193.07363	+0.88044360	-0.47387274
a	2.4584255	Ω	195.24416	+0.44039306	+0.82997072
e	0.1973096	i	3.54080	+0.17570717	+0.29426728
P	3.85	H	14.1	G 0.15	U 2

Residuals in seconds of arc

1986 08 12	095	1.2-	1.2-	1994 10 13	046	0.7+	0.6+	2000 03 06	608	0.5-	0.1-
1990 09 14	675	(1.6+	2.0-)	1994 10 13	046	0.3+	0.9+	2000 03 06	608	0.5-	0.3-
1990 09 14	675	(1.8+	2.7-)	1994 10 14	046	0.2+	0.3+	2000 03 09	704	0.2+	0.3-
1990 09 15	675	0.1+	0.4+	1994 10 14	046	0.2+	0.2+	2000 03 09	704	0.1+	0.7+
1990 09 15	675	1.0-	0.4+	1994 10 14	046	0.8+	0.6+	2000 03 09	704	0.1-	0.2+
1990 09 18	675	(2.4+	1.9-)	1994 10 14	046	0.5+	0.7+	2000 03 09	704	0.8+	0.6+
1990 09 18	675	(2.3+	3.3-)	1994 10 14	046	0.1+	0.2+	2000 03 09	704	0.3+	0.0
1990 09 18	095	1.6+	0.9-	1996 03 19	566	0.0	0.2+	2000 03 10	704	0.3+	0.7+
1990 09 18	095	(3.4+	1.1-)	1996 03 19	566	0.3-	0.4+	2000 03 10	704	1.0-	0.3+
1990 09 20	675	(1.9-	2.3-)	1996 03 19	566	0.4+	0.6+	2000 03 10	704	0.1-	0.5-
1990 09 20	675	0.9-	0.1+	1996 03 20	566	0.7+	0.4+	2000 03 10	704	0.2-	1.0-
1990 09 22	095	1.4-	1.7-	1996 03 20	566	0.0	0.5+	2000 03 10	704	0.3-	0.9-
1990 09 22	095	(1.5+	3.0-)	1996 03 20	566	0.0	0.4+	2000 03 11	704	0.0	1.1-
1990 10 22	675	0.0	0.6-	1998 09 29	704	0.7+	0.8-	2000 03 11	704	0.3+	0.9-
1990 10 22	675	0.6+	0.5-	1998 09 29	704	1.0-	0.1-	2000 03 11	704	0.3-	1.6-
1992 02 28	675	1.9+	0.1-	1998 09 29	704	1.1+	0.7+	2000 03 11	704	0.4-	1.1-
1992 02 28	675	0.0	0.8+	1998 09 29	704	0.5-	0.9+	2000 03 11	704	0.7-	1.9-

1992 03 02	809	0.1+	1.3+	1998 09 29	704	1.8+	0.6+	2000 04 04	704	0.4-	0.9+
1992 03 05	809	0.1+	0.1+	1998 11 10	704	0.7+	0.6-	2000 04 04	704	0.1+	1.2+
1992 03 09	809	0.2-	1.7-	1998 11 10	704	1.2+	0.2+	2000 04 04	704	0.7-	0.4+
1992 04 07	809	0.8-	0.1+	1998 11 10	704	0.7-	0.6-	2000 04 04	704	1.0+	1.3+
1994 09 02	801	0.6+	0.4+	1998 11 10	704	0.3+	0.1-	2000 04 04	704	0.2+	1.5+
1994 09 02	801	0.2-	0.1-	1998 11 10	704	0.5-	0.6-	2000 04 05	704	0.5+	0.3-
1994 09 04	801	0.5-	0.7-	1998 11 24	704	0.4+	0.6-	2000 04 05	704	0.1+	0.2-
1994 09 04	801	0.3+	0.6-	1998 11 24	704	0.2-	0.9-	2000 04 05	704	0.6+	0.5-
1994 10 01	801	0.3-	0.9+	1998 11 24	704	0.1-	0.3-	2000 04 05	704	0.1+	0.3+
1994 10 01	801	0.2+	1.6+	1998 11 24	704	1.5-	0.8+	2000 04 05	704	0.2+	0.8-
1994 10 04	801	0.1-	1.4+	1998 12 08	699	0.4+	0.1-	2000 04 06	704	0.0	0.3+
1994 10 04	801	0.3+	0.4+	1998 12 08	699	0.2+	0.2-	2000 04 06	704	0.1+	0.7+
1994 10 08	691	0.1+	0.5+	1998 12 08	699	0.0	0.4+	2000 04 06	704	0.0	0.2-
1994 10 08	691	0.0	0.4+	1998 12 12	691	0.7-	0.0	2000 04 06	704	0.3+	0.3+
1994 10 08	691	0.0	0.4+	1998 12 12	691	0.8-	0.0	2000 04 07	699	0.4+	0.9+
1994 10 10	691	0.1+	0.5+	1998 12 12	691	0.7-	0.1-	2000 04 07	699	0.2+	0.2+
1994 10 10	691	0.6-	0.2+	1998 12 15	704	0.5-	0.5-	2000 04 07	699	0.4+	0.8+
1994 10 10	691	0.2-	0.3+	1998 12 15	704	0.9-	1.8-	2000 04 07	699	0.0	0.7+
1994 10 11	046	1.0+	0.2+	1998 12 15	704	1.0-	0.2-	2000 04 11	608	(0.6-	2.2-)
1994 10 12	046	0.3+	1.6-	1998 12 15	704	1.7-	0.3-	2000 04 11	608	(0.1-	2.6-)
1994 10 13	046	0.3+	0.8+	2000 03 06	608	0.5-	0.8-	2000 04 11	608	(0.5-	2.5-)

(14392)* 1990 RS₆ = 1990 QT₁₆ = 1996 CN₁

Discovered 1990 Sept. 11 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (d, *MPC* 19274), T. Kobayashi (*MPC* 26740)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	342.73456		(2000.0)	P	Q
n	0.26796958	ω	213.26899	-0.92425064	+0.38123672
a	2.3827531	Ω	349.08379	-0.32243273	-0.80816242
e	0.0701565	i	6.20770	-0.20444534	-0.44892324
P	3.68	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1990 08 26	809	0.6-	0.9-	1996 02 18	411	0.4-	0.3-	2000 03 09	704	0.2-	0.9+
1990 08 26	809	0.6-	0.3-	1996 02 18	411	0.4+	0.3+	2000 04 02	699	0.0	0.1-
1990 08 26	809	0.2+	0.4-	1996 02 20	966	0.2-	0.3-	2000 04 02	699	0.7-	0.6-
1990 09 11	809	0.8-	0.2+	1996 02 20	966	0.5+	0.5+	2000 04 02	699	0.2-	0.4-
1990 09 11	809	0.1-	0.1+	1996 02 22	966	1.2+	0.4+	2000 04 02	699	0.4-	0.3-
1990 09 11	809	0.3+	0.2+	1996 02 22	966	0.3-	0.4+	2000 04 06	699	0.0	0.3+
1990 09 12	809	0.8+	0.7+	1996 02 22	966	0.4+	0.9-	2000 04 06	699	0.0	0.1-
1990 09 12	809	1.2+	0.4+	1998 10 29	704	(3.2-	0.7-)	2000 04 06	699	0.3-	0.0
1990 09 12	809	1.7+	0.4+	1998 10 29	704	0.7+	0.8-	2000 04 06	699	0.2-	0.2-
1990 09 13	809	(2.7-	1.4-)	1998 10 29	704	0.2-	0.8-	2000 04 07	704	0.2+	0.1-
1990 09 13	809	(2.4-	1.1-)	1998 10 29	704	1.7-	0.6-	2000 04 07	704	0.6+	0.0
1990 09 13	809	2.1-	0.9-	1998 11 16	704	1.2+	1.2-	2000 04 07	704	0.6+	0.3+
1990 09 14	809	0.1+	1.1-	1998 11 16	704	0.8+	0.0	2000 04 07	704	0.9+	0.4+
1990 09 14	809	0.5+	0.7-	1998 11 16	704	0.2+	1.3+	2000 04 07	704	0.6+	0.4+
1990 09 14	809	0.9+	0.6-	1998 11 16	704	0.8-	1.0+	2000 04 08	704	0.7-	0.2-
1996 02 12	411	0.1+	1.3-	2000 03 04	703	0.4-	0.4+	2000 04 08	704	0.0	0.1-
1996 02 12	411	0.8-	0.9-	2000 03 04	703	0.3-	0.2+	2000 04 08	704	0.3-	0.4-
1996 02 13	411	0.3+	0.6-	2000 03 04	703	0.4-	0.1-	2000 04 08	704	0.0	0.1+
1996 02 13	411	1.2-	0.4+	2000 03 04	703	0.1-	0.3-	2000 04 08	704	0.5+	0.2-
1996 02 13	411	0.3-	0.3+	2000 03 05	608	0.7-	1.6-	2000 04 10	704	0.2+	0.1+
1996 02 14	966	0.5-	0.7-	2000 03 05	608	0.5-	1.9-	2000 04 10	704	0.0	0.2-
1996 02 15	966	0.2-	1.7+	2000 03 05	608	(0.3-	2.4-)	2000 04 10	704	0.4+	0.1-
1996 02 15	966	0.7-	0.3-	2000 03 09	704	0.0	0.4+	2000 04 10	704	0.2+	0.1+
1996 02 15	966	1.6+	0.8+	2000 03 09	704	0.8-	0.2+	2000 04 10	704	0.0	0.0

2000 APR. 18

M.P.C. 39817

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5						Williams					
M	168.37166		(2000.0)		P		Q				
n	0.24569494	ω	214.27502	+0.62933266	+0.77313666						
a	2.5246736	Ω	94.85538	−0.69413566	+0.60478617						
e	0.1360636	i	4.53249	−0.34945112	+0.19103243						
P	4.01 <th>H</th> <td>14.8</td> <th>G</th> <td>0.15</td> <th>U</th> <td colspan="3">2</td>	H	14.8	G	0.15	U	2				
Residuals in seconds of arc											
1990 09 15	809	0.8+	0.7+	1998 09 26	704	1.3+	1.7−	1999 12 15	691	0.0	0.0
1990 09 15	809	1.0+	1.4+	1998 09 26	704	0.6+	1.1−	1999 12 15	691	0.1+	0.2−
1990 09 15	809	1.3+	1.3+	1998 09 26	704	1.4+	0.5−	1999 12 16	691	0.4+	0.3+
1990 09 22	809	1.8−	1.1+	1998 09 26	704	0.5+	0.8−	1999 12 16	691	0.6+	0.2+
1990 09 22	809	1.7−	0.4−	1998 09 27	704	0.4+	0.3−	1999 12 16	691	0.7+	0.2+
1990 09 22	809	1.0−	1.0+	1998 09 27	704	0.0	0.3−	2000 01 03	704	0.4+	0.4−
1990 09 25	809	0.2−	0.6+	1998 09 27	704	0.3+	0.4−	2000 01 03	704	0.0	0.7−
1990 09 25	809	0.1−	0.4−	1998 09 27	704	0.1−	1.2−	2000 01 03	704	0.2+	0.7−
1990 09 25	809	0.7−	0.0	1998 09 27	704	0.6−	0.7−	2000 01 03	704	0.2−	0.1−
1993 04 18	691	0.1−	0.4−	1998 10 14	704	(2.2−	1.7−)	2000 01 03	704	0.6+	0.3+
1998 08 29	704	1.2−	1.8+	1998 10 14	704	0.2+	0.5−	2000 01 04	704	0.1+	0.2−
1998 08 29	704	0.9−	1.5+	1998 10 14	704	0.2+	1.6+	2000 01 04	704	0.4+	0.9−
1998 08 29	704	0.7−	0.7+	1998 10 14	704	0.0	0.7+	2000 01 04	704	0.3−	0.1+
1998 08 29	704	0.6−	0.1−	1998 10 15	704	0.1+	0.6−	2000 01 05	012	0.1+	0.7+
1998 08 29	704	0.4−	0.1−	1998 10 15	704	0.2+	0.8−	2000 01 05	012	0.4−	0.1−
1998 09 14	704	0.3−	0.8−	1998 10 15	704	1.8−	1.1−	2000 01 05	012	1.0−	0.2−
1998 09 14	704	1.4+	0.3+	1998 10 15	704	1.1+	1.3+	2000 01 05	012	1.5−	0.1+
1998 09 14	704	0.2−	0.1+	1999 12 04	691	0.0	0.3−	2000 01 05	012	0.1−	0.6+
1998 09 18	704	0.2+	0.6−	1999 12 04	691	0.1+	0.4−	2000 01 05	012	0.3+	0.3−
1998 09 18	704	0.5+	0.3−	1999 12 04	691	0.1+	0.3−	2000 01 05	012	1.0−	0.3+
1998 09 18	704	0.5−	0.2−	1999 12 12	691	0.2+	0.1+	2000 01 05	012	0.3+	0.8+
1998 09 18	704	0.1+	0.0	1999 12 12	691	0.0	0.1+	2000 01 06	012	0.0	1.1+
1998 09 18	704	0.2−	0.6−	1999 12 12	691	0.0	0.1+				
1998 09 26	704	1.0+	0.5−	1999 12 15	691	0.0	0.1−				

(14394)* 1990 SP₁₅ = 1990 SR₂₆ = 1994 GO = 1999 CE₆₂

Discovered 1990 Sept. 18 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 20913), A. Doppler (*MPC* 35282)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5						Nakano				
<i>M</i>	305.08581	(2000.0)		P		Q				
<i>n</i>	0.17024043	ω	71.02264	−0.10969679		+0.99207041				
<i>a</i>	3.2242416	Ω	193.13903	−0.98288615		−0.11745607				
<i>e</i>	0.0766782	<i>i</i>	15.65581	−0.14799129		+0.04472563				
<i>P</i>	5.79	<i>H</i>	11.6	<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc										
1990 09 18	675	1.0−	1.2+	1999 02 12	704	0.6+	0.0	2000 04 07	636	0.3+
1990 09 18	675	0.2+	0.5+	1999 02 12	704	0.4+	0.1+	2000 04 07	704	0.2+
1990 09 20	675	0.9+	0.5+	1999 02 16	704	0.1−	0.4−	2000 04 07	704	0.4+
1990 09 20	675	0.5−	0.3+	1999 02 16	704	0.1−	0.4−	2000 04 07	704	0.0
1990 09 22	095	(2.6−	3.6−)	1999 02 16	704	0.4+	0.2+	2000 04 07	704	0.0
1990 09 22	095	(0.7+	2.4−)	1999 02 16	704	1.0+	0.3−	2000 04 07	704	0.6+
1990 10 12	675	0.1−	0.8−	1999 02 16	704	0.3−	0.2−	2000 04 08	704	0.2−
1990 10 12	675	0.4+	0.5−	1999 05 07	704	1.9+	1.6−	2000 04 08	704	0.1+
1994 04 02	894	0.9−	0.7−	1999 05 07	704	1.0+	0.2−	2000 04 08	704	0.3+
1994 04 02	894	(1.0−	2.4−)	1999 05 07	704	0.4+	0.3+	2000 04 10	636	0.5−
1994 04 03	894	0.7+	0.2+	1999 05 07	704	1.7−	0.4+	2000 04 10	636	0.2−
1994 04 03	894	0.0	0.2−	2000 01 06	699	0.4−	0.5+	2000 04 13	704	0.1−
1999 01 17	699	0.6−	0.7+	2000 01 06	699	0.6−	0.7+	2000 04 13	704	0.2−
1999 01 17	699	0.8−	1.0+	2000 01 06	699	0.2+	0.9+	2000 04 13	704	0.4−
1999 01 17	699	0.7−	0.9+	2000 02 10	704	1.5+	1.4+	2000 04 13	704	0.3−
1999 02 12	704	0.8−	0.5−	2000 02 10	704	0.4+	0.8+	2000 04 13	704	0.4−
1999 02 12	704	0.6−	0.3−	2000 02 10	704	0.5+	0.3+			
1999 02 12	704	0.3+	0.5+	2000 04 07	636	0.6−	0.1−			

(14395)* 1990 TN₃

Discovered 1990 Oct. 15 by E. F. Helin at Palomar.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5							Williams				
<i>M</i>	151.44900		(2000.0)		P		Q				
<i>n</i>	0.35841978		ω	4.36419		+0.90304442		−0.40951498			
<i>a</i>	1.9627941		Ω	21.31621		+0.38251902		+0.62935920			
<i>e</i>	0.0938407		<i>i</i>	20.89445		+0.19542257		+0.66045777			
<i>P</i>	2.75		<i>H</i>	14.9		<i>G</i>	0.15		<i>U</i>	2	
Residuals in seconds of arc											
1989 04 08	675	0.1−	1.8−	1998 12 08	704	1.3−	0.6+	2000 04 04	704	0.3+	0.2−
1989 04 08	675	1.9−	0.1−	2000 02 06	704	0.2+	1.3−	2000 04 06	704	0.4+	0.7+
1990 10 15	675	(2.6−	1.2+)	2000 02 06	704	0.1+	0.9−	2000 04 06	704	0.4−	0.3+
1990 10 15	675	1.7−	1.1+	2000 02 06	704	(0.6+	2.2−)	2000 04 06	704	1.3−	0.8−
1990 10 16	675	1.6−	0.7+	2000 03 08	704	1.1+	0.2+	2000 04 06	699	0.1−	0.0
1990 10 16	675	0.0	1.1−	2000 03 08	704	1.0+	0.3+	2000 04 06	699	0.1−	0.4+
1990 11 18	675	0.2−	0.2+	2000 03 08	704	0.8+	0.3+	2000 04 06	699	0.2−	0.3+
1990 11 18	675	0.1+	0.2+	2000 03 08	704	1.3+	1.1+	2000 04 06	699	0.2−	0.3−
1990 11 19	675	0.3+	0.7−	2000 03 08	704	0.4+	0.1+	2000 04 07	699	0.1−	0.4+
1990 11 19	675	0.4+	0.5+	2000 03 11	699	0.2−	0.5+	2000 04 07	699	0.5−	0.2−
1990 12 15	801	0.2+	0.6+	2000 03 11	699	0.7−	0.8+	2000 04 07	699	0.5+	0.1+
1990 12 15	801	0.3+	0.5+	2000 03 11	699	0.8−	0.9+	2000 04 07	704	0.3−	0.1−
1990 12 20	801	0.5+	0.9+	2000 03 11	699	0.2−	0.3+	2000 04 07	704	0.3+	0.0
1990 12 20	801	0.3+	0.7+	2000 03 27	699	0.5−	0.3−	2000 04 07	699	0.4−	0.8+
1991 01 18	801	0.1+	0.8−	2000 03 27	699	0.5−	0.4+	2000 04 07	704	0.2+	0.1+
1998 09 13	423	0.0	0.8+	2000 03 27	699	0.3−	0.3−	2000 04 07	704	0.1−	0.2−
1998 09 13	423	0.3+	1.1+	2000 03 27	699	0.8−	0.2−	2000 04 07	704	0.1−	0.2+
1998 09 13	423	0.3−	0.6+	2000 03 29	704	0.8+	0.3+	2000 04 08	704	0.1−	0.6+
1998 09 16	423	0.8−	0.2+	2000 03 29	704	0.1−	0.1+	2000 04 08	704	0.4+	0.5+
1998 09 16	423	0.2−	0.8+	2000 03 29	704	0.2+	0.1+	2000 04 08	704	0.8+	0.3−
1998 09 16	423	0.6−	0.7+	2000 03 29	704	0.1+	0.4+	2000 04 08	704	0.3+	0.3−
1998 09 21	704	1.3−	1.4−	2000 03 29	704	0.5+	0.6+	2000 04 10	704	0.2+	0.1+
1998 09 21	704	0.8+	1.1+	2000 04 03	699	0.3+	0.3−	2000 04 10	704	0.2+	0.0
1998 09 21	704	0.5+	0.7−	2000 04 03	699	0.4+	0.3−	2000 04 10	704	0.3+	0.1+
1998 09 21	704	0.2+	0.6−	2000 04 03	699	0.1+	0.3−	2000 04 10	704	0.5+	0.3+
1998 09 21	704	0.0	0.7−	2000 04 03	699	0.2+	0.1−	2000 04 10	704	0.7+	0.1+
1998 12 08	704	0.1+	0.5+	2000 04 04	704	0.9+	0.3+				
1998 12 08	704	(2.8−	1.6−)	2000 04 04	704	1.0+	0.8+				

(14396)* 1990 UX₄ = 1992 AC₅ = 2000 AZ₂₃₇

Discovered 1990 Oct. 16 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (*MPC* 39146), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5										Williams	
M	57.90451		(2000.0)		P		Q				
n	0.21904556		ω	281.97561	+0.98709741		−0.07360141				
a	2.7255014		Ω	82.36751	+0.12654181		+0.90274399				
e	0.0462758		i	8.24890	−0.09811152		+0.42383501				
P	4.50 <th>H</th> <td>13.5<th>G</th><td>0.15<th>U</th><td>1<td colspan="2"></td></td></td></td>		H	13.5 <th>G</th> <td>0.15<th>U</th><td>1<td colspan="2"></td></td></td>	G	0.15 <th>U</th> <td>1<td colspan="2"></td></td>	U	1 <td colspan="2"></td>			
Residuals in seconds of arc											
1990 10 16	809	(2.7+ 0.2−)	1999 10 03	703	0.4−	0.2−	1999 11 05	704	0.6+	0.4−	
1990 10 16	809	0.5+ 0.8−	1999 10 03	703	0.0	0.3−	1999 11 05	704	0.7+ 0.2+		
1990 10 16	809	0.9+ 1.4−	1999 10 09	704	0.5+ 0.1−	1999 11 14	699	0.7− 0.7+			
1990 10 19	809	0.3+ 1.2−	1999 10 09	704	0.1− 0.6−	1999 11 14	699	0.0 0.7+			
1990 10 19	809	0.1− 1.2−	1999 10 09	704	0.1− 0.3−	1999 11 14	699	0.0 1.8+			
1990 10 19	809	0.4− 0.3−	1999 10 09	704	0.1+ 0.1−	1999 12 04	699	0.1− 0.5+			
1990 10 24	809	0.1− 0.5+	1999 10 09	704	0.1+ 1.0−	1999 12 04	699	0.0 0.5+			
1990 10 24	809	0.3+ 0.5+	1999 10 12	699	0.5− 0.3+	1999 12 04	699	0.6− 0.7+			
1990 10 24	809	0.3+ 0.1−	1999 10 12	699	0.5− 0.2−	1999 12 05	704	0.8+ 0.2+			
1992 01 03	033	0.7+ 0.9+	1999 10 12	699	0.9− 0.7+	1999 12 05	704	0.3+ 0.4+			
1992 01 03	033	0.1− 0.8+	1999 10 19	704	0.5+ 0.1+	1999 12 05	704	0.2− 0.8−			
1998 06 26	704	0.7+ 0.3+	1999 10 19	704	0.1+ 0.4−	1999 12 05	704	0.4− 0.1−			
1998 06 26	704	0.4− 0.7+	1999 10 19	704	0.5+ 0.2−	1999 12 05	704	0.5− 0.8+			
1998 06 26	704	0.9− 0.5+	1999 10 19	699	0.1− 0.6+	1999 12 14	704	1.0+ 0.5+			
1998 06 26	704	0.5− 0.4−	1999 10 19	704	0.4+ 0.3−	1999 12 14	704	0.3+ 1.6+			
1998 06 26	704	(5.4− 3.0+)	1999 10 19	704	0.3+ 0.2−	1999 12 14	704	1.3− 0.2−			

1998 07 21	704	0.5−	0.1+	1999 10 19	699	0.3−	0.7+	1999 12 14	704	(2.1−	1.7+)
1998 07 21	704	0.5+	0.0	1999 10 19	699	0.1−	0.5+	2000 01 06	699	0.3−	0.1−
1998 07 21	704	0.7−	1.5+	1999 10 30	703	0.7−	0.1−	2000 01 06	699	0.1+	0.2+
1998 07 21	704	1.7+	0.1−	1999 10 30	703	0.8−	0.0	2000 01 06	699	0.3+	1.0−
1999 10 02	699	0.1+	1.0+	1999 10 30	703	0.0	0.0	2000 01 07	704	0.7−	0.7−
1999 10 02	699	0.3+	1.5+	1999 10 30	703	0.3−	0.2−	2000 01 07	704	1.0−	0.7−
1999 10 02	699	0.7+	0.2−	1999 11 05	704	0.8+	0.1−	2000 01 07	704	1.3−	0.6+
1999 10 03	703	0.6−	0.6−	1999 11 05	704	1.1+	0.2−	2000 01 07	704	0.4−	0.4−
1999 10 03	703	0.6−	0.0	1999 11 05	704	0.8+	0.3−				

(14397)* 1990 VS₄ = 1986 WW₇

Discovered 1990 Nov. 15 by E. W. Elst at the European Southern Observatory.

Id. H. Kaneda (*MPC* 18434)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	144.40732		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23955195	ω	138.60055	+0.96168963	+0.25773094
a	2.5676525	Ω	206.89731	−0.27241136	+0.93663747
e	0.1931735	i	11.91780	+0.03074258	+0.23724460
P	4.11	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1986 11 30	675	(6.7−	0.8+)	1998 09 27	704	0.4+	0.1+	1998 10 29	704	0.0	0.6+
1986 11 30	675	(3.1−	0.1−)	1998 09 27	704	1.1−	0.1−	1998 11 10	704	0.0	0.4−
1986 12 03	675	(8.6−	1.0−)	1998 09 27	704	0.2−	0.6+	1998 11 10	704	0.3−	0.0
1986 12 03	675	(7.5−	0.0)	1998 09 27	704	0.5+	0.5+	1998 11 10	704	0.2−	1.0−
1990 11 15	809	0.4−	1.5−	1998 09 27	704	0.2+	1.2−	1998 11 10	704	0.3−	0.1−
1990 11 15	809	0.3−	0.3−	1998 10 11	699	(2.5+ 0.5+)		1998 11 10	699	0.1+	0.0
1990 11 15	809	1.1−	1.9−	1998 10 11	699	0.3+	0.0	1998 11 10	699	0.1−	0.4+
1990 11 17	809	0.8−	0.1−	1998 10 11	699	0.6+	0.2−	1998 11 10	699	0.2+	0.1+
1990 11 17	809	0.4−	0.1+	1998 10 14	704	0.5+	0.4−	1998 11 10	360	0.4+	0.3+
1990 11 17	809	1.4−	0.7+	1998 10 14	704	0.7+	0.5+	1998 11 10	360	0.2+	0.1+
1990 11 21	809	1.4+	0.4−	1998 10 14	704	0.8+	0.2−	1998 11 10	360	0.4+	0.2+
1990 11 21	809	0.2+	0.3−	1998 10 14	704	1.0+	0.0	1998 11 11	704	0.7+	0.1−
1990 11 21	809	0.4+	0.2−	1998 10 14	704	0.8−	1.2−	1998 11 11	704	0.7+	0.4+
1994 10 31	691	1.5+	0.4+	1998 10 15	704	0.2−	0.2+	1998 11 11	704	0.2+	0.2−
1994 10 31	691	1.3+	0.5+	1998 10 15	704	2.0−	0.6+	1998 11 11	704	0.4+	0.1+
1994 10 31	691	1.4+	0.5+	1998 10 15	704	0.0	0.1+	1998 11 11	704	0.5−	0.5−
1994 10 31	675	1.5−	0.4+	1998 10 15	704	0.5−	0.5−	1998 12 08	704	0.6−	0.7+
1994 10 31	675	1.6+	0.6−	1998 10 15	127	0.3+	0.6−	1998 12 08	704	2.0+	1.4+
1997 04 07	809	0.7−	0.1−	1998 10 15	127	0.1+	0.6−	1998 12 08	704	0.6−	0.7−
1997 04 07	809	1.0−	0.7+	1998 10 15	560	0.3−	0.1−	1998 12 08	704	1.0+	0.1+
1997 04 07	809	0.1−	0.7−	1998 10 15	560	0.1+	0.0	1998 12 08	704	(2.6+ 0.7−)	
1997 04 08	809	0.7+	0.2−	1998 10 15	560	0.2−	0.2−	2000 01 11	704	0.8−	0.6−
1997 04 08	809	0.7+	0.1−	1998 10 17	699	0.1+	0.2+	2000 01 11	704	0.5−	1.0−
1997 04 08	809	0.2−	0.4+	1998 10 17	699	0.4+	0.1+	2000 01 11	704	1.0−	0.4−
1997 04 11	704	0.5+	0.2−	1998 10 17	699	0.2+	0.2+	2000 01 11	704	0.4+	0.3−
1997 04 11	704	0.1+	0.4−	1998 10 28	704	0.5−	0.2−	2000 01 11	704	1.4−	0.3+
1998 09 14	699	0.3−	0.2−	1998 10 28	704	1.0−	0.3+	2000 02 08	704	0.6+	0.8+
1998 09 14	699	0.3−	0.5−	1998 10 28	704	0.3−	0.4+	2000 02 08	704	0.7+	0.7+
1998 09 14	699	0.2−	0.1+	1998 10 28	704	0.6−	0.0	2000 02 08	704	1.0+	0.6+
1998 09 26	704	0.4+	0.7+	1998 10 28	704	1.1−	1.0+	2000 02 08	704	0.6−	0.4+
1998 09 26	704	0.3−	0.0	1998 10 29	704	0.0	0.8+	2000 02 08	704	0.5+	0.3−
1998 09 26	704	0.4−	0.2−	1998 10 29	704	0.4−	0.5+	2000 03 08	608	0.3+	0.8+
1998 09 26	704	0.2−	0.0	1998 10 29	704	1.3−	0.5+	2000 03 08	608	0.1+	0.9+
1998 09 26	704	0.1+	0.1−	1998 10 29	704	0.4−	0.5+	2000 03 08	608	1.1+	0.1+

(14398)* 1990 VT₆ = 1990 SA₁₈ = 1992 EF₁₀

Discovered 1990 Nov. 14 by E. W. Elst at the European Southern Observatory.

Id. K. Kinoshita (*MPC* 24565), S. Nakano (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	63.91119		(2000.0)	P	Q
n	0.22851782	ω	214.41092	+0.87159118	−0.49020212
a	2.6496550	Ω	174.93351	+0.46270665	+0.81886433
e	0.1241221	i	3.59729	+0.16196104	+0.29860190
P	4.31	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1990 09 27	413	1.0+	0.1−	1992 03 07	809	0.6−	0.1−	1999 12 08	704	0.3−	0.2−
1990 11 11	809	0.8+	2.0+	1996 01 29	691	0.5+	0.5−	1999 12 14	704	0.4−	0.8+
1990 11 11	809	1.1−	0.7+	1996 01 29	691	0.8+	0.2−	1999 12 14	704	0.2−	0.3+
1990 11 11	809	0.6−	1.0+	1996 01 29	691	0.7+	0.3−	1999 12 14	704	0.3−	0.2+
1990 11 12	809	(2.8−	0.8−)	1998 08 17	704	1.7+	0.0	1999 12 14	704	0.0	0.6−
1990 11 12	809	(3.2−	0.8−)	1998 08 17	704	0.1+	0.1+	1999 12 14	704	0.7−	0.9+
1990 11 12	809	1.6−	0.6−	1998 08 17	704	1.1−	0.5−	2000 01 05	704	0.2+	0.3+
1990 11 14	809	0.2−	1.6−	1998 08 17	704	0.7−	0.7+	2000 01 05	704	0.1+	0.0
1990 11 14	809	0.1−	1.7−	1998 08 17	704	0.0	0.5+	2000 01 05	704	0.2+	0.2−
1990 11 14	809	(1.2+ 3.1−)		1999 10 21	704	0.2−	1.4−	2000 01 05	704	1.2+	0.4−
1990 11 17	809	0.5−	1.2+	1999 10 21	704	0.1−	0.1+	2000 01 06	704	0.6+	0.3+
1990 11 17	809	0.4+	0.4+	1999 10 21	704	1.2−	1.0−	2000 01 06	704	0.3+	0.5−
1990 11 17	809	0.8+	1.2−	1999 10 21	704	1.0−	0.1+	2000 01 06	704	0.1+	0.1−
1990 11 20	809	0.7+	0.5−	1999 11 17	704	0.3+	0.1+	2000 01 06	704	0.1−	0.2+
1990 11 20	809	0.1+	0.6−	1999 11 17	704	0.3+	0.4+	2000 01 06	704	0.1+	0.2−
1990 11 20	809	0.6+	0.2+	1999 11 17	704	0.1−	0.8+	2000 03 04	704	0.8−	0.5+
1992 02 25	675	1.1+	0.4+	1999 11 17	704	1.2+	0.5+	2000 03 04	704	0.3+	0.8+
1992 02 25	675	0.1−	1.1−	1999 12 08	704	1.4−	1.2+	2000 03 04	704	0.4+	0.2−
1992 03 02	809	1.7−	0.9+	1999 12 08	704	0.2+	0.3−				
1992 03 04	809	0.0	0.2+	1999 12 08	704	0.0	0.7−				

(14399)* 1990 WN₄ = 1999 XW₁₇₅

Discovered 1990 Nov. 16 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (*MPC* 39147)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	75.52897		(2000.0)	P	Q
n	0.22943772	ω	318.80258	+0.72717418	−0.62718241
a	2.6425680	Ω	82.29567	+0.68015909	+0.60337758
e	0.0991747	i	16.35427	+0.09274333	+0.49252179
P	4.30	H	13.9	G 0.15	U 2

Residuals in seconds of arc

1990 11 16	809	1.5+	1.7−	1997 06 27	691	0.6−	0.9−	1999 12 15	704	0.3−	0.6−
1990 11 17	809	1.8+	1.3−	1997 06 27	691	0.5−	0.8−	2000 01 05	699	0.0	0.1+
1990 11 21	809	0.1+	0.2−	1997 07 01	910	0.8+	0.8−	2000 01 05	699	1.1+	0.3+
1990 11 21	809	0.2+	0.6−	1997 07 01	910	0.9+	0.9−	2000 01 05	699	0.1+	0.3+
1990 11 21	809	0.5−	1.0−	1997 07 01	910	0.9+	0.9−	2000 01 29	704	0.2−	0.4−
1990 11 22	809	0.0	0.1−	1999 12 08	703	0.1+	0.4+	2000 01 29	704	0.0	0.1+
1990 11 22	809	0.2−	0.2−	1999 12 08	703	0.1−	0.4+	2000 01 29	704	0.8−	0.3+
1990 11 22	809	0.3−	0.7−	1999 12 08	703	0.1+	0.0	2000 01 29	704	1.1−	1.0−
1995 02 02	691	0.4−	1.1+	1999 12 08	703	0.8−	0.9+	2000 01 29	704	0.3+	0.7+
1995 02 02	691	0.4−	1.2+	1999 12 10	704	0.7+	0.3−	2000 02 26	704	0.9+	0.6+
1995 02 02	691	0.2−	0.9+	1999 12 10	704	0.1−	0.4+	2000 02 26	704	0.6+	0.2−
1997 06 08	809	1.3−	1.3+	1999 12 10	704	0.1+	0.5−	2000 02 26	704	0.8−	0.4−
1997 06 08	809	1.8−	0.3+	1999 12 10	704	0.7−	0.6−	2000 03 27	704	0.3+	0.8+
1997 06 08	809	0.9−	1.2+	1999 12 10	704	0.1+	0.6−	2000 03 27	704	0.0	0.3+
1997 06 11	691	0.5+	1.2−	1999 12 15	704	0.1−	0.1+	2000 03 27	704	0.7+	1.0+
1997 06 11	691	0.0	1.2−	1999 12 15	704	0.4−	0.0	2000 03 27	704	0.3+	0.1−
1997 06 11	691	0.3+	0.4−	1999 12 15	704	0.0	0.4−	2000 03 27	704	0.2+	1.3−
1997 06 27	691	0.5−	0.9−	1999 12 15	704	0.2−	0.3−				

2000 APR. 18

M.P.C. 39819

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	9.45443	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22406627	ω	270.83720	-0.38944526
<i>a</i>	2.6846338	Ω	202.15918	+0.87386934
<i>e</i>	0.2360444	<i>i</i>	4.62424	+0.29100646
<i>P</i>	4.40	<i>H</i>	14.5	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1990 11 14	675	1.0+	1.5+	1996 04 19	566	0.6-	0.0	2000 01 07	704	0.1-	0.6-
1990 11 14	675	1.8+	0.3+	1996 04 19	566	0.2+	0.5+	2000 01 07	704	0.2-	0.7-
1990 11 16	809	0.0	0.0	1999 10 10	704	0.1-	0.9-	2000 01 07	704	0.0	0.7-
1990 11 17	809	0.6+	0.9+	1999 10 10	704	0.5+	1.1-	2000 01 07	704	0.2-	0.7-
1990 11 21	809	0.2-	0.8+	1999 10 10	704	0.4+	1.0-	2000 01 07	704	0.1-	0.9-
1990 11 21	809	1.6-	0.3+	1999 11 17	704	0.2+	0.3+	2000 02 02	704	0.2-	0.0
1990 11 21	809	(2.3-	0.2+)	1999 11 17	704	0.9-	0.8-	2000 02 02	704	0.0	0.8+
1990 11 22	809	0.0	0.2+	1999 11 17	704	0.8+	0.2+	2000 02 02	704	0.2-	0.4+
1990 11 22	809	1.4-	0.2+	1999 11 17	704	0.8+	0.4+	2000 02 02	704	0.1-	0.5+
1990 11 22	809	0.4-	0.7+	1999 11 17	704	0.3+	0.2-	2000 02 02	704	0.3-	0.6+
1994 10 09	691	0.1-	0.1-	1999 12 14	704	0.0	1.2+	2000 02 04	704	0.1-	0.2-
1994 10 09	691	0.1-	0.2+	1999 12 14	704	0.0	0.2+	2000 02 04	704	0.2+	0.4+
1994 10 09	691	0.1-	0.2+	1999 12 14	704	(0.4+	2.2-)	2000 02 04	704	0.0	0.4+
1996 03 18	566	0.4+	0.1-	1999 12 14	704	(0.2-	2.2-)	2000 02 04	704	0.4+	0.5+
1996 03 18	566	0.5+	0.2+	1999 12 14	704	1.1-	1.3-	2000 02 04	704	0.4-	0.5-
1996 03 18	566	0.2+	0.0	2000 01 05	704	0.1-	0.5-	2000 03 05	704	0.1+	0.1+
1996 03 23	566	0.1-	0.7+	2000 01 05	704	0.1+	0.6-	2000 03 05	704	0.2+	0.3-
1996 03 23	566	0.1+	0.4+	2000 01 05	704	0.2-	0.4-	2000 03 05	704	0.3+	0.4+
1996 03 23	566	0.0	0.4+	2000 01 05	704	0.1-	0.3-	2000 03 05	704	0.4+	0.3+
1996 04 19	566	0.0	0.1+	2000 01 05	704	0.2-	0.0	2000 03 05	704	0.3+	0.4+

(14401)* 1990 XV = 1981 UU₁₂ = 2000 CJ₇₀

Discovered 1990 Dec. 15 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 39147)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.48118	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23200756	ω	102.16860	+0.77706712
<i>a</i>	2.6230181	Ω	295.10512	+0.46814676
<i>e</i>	0.1870725	<i>i</i>	11.79303	+0.42071998
<i>P</i>	4.25	<i>H</i>	13.3	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1981 10 23	095	0.2-	0.7+	2000 02 07	703	0.7-	0.7-	2000 03 09	704	0.4-	0.2+
1990 12 15	400	(2.9+	2.2+)	2000 02 07	703	0.0	0.2-	2000 03 12	704	0.0	0.3+
1990 12 15	400	(4.1+	1.7+)	2000 02 07	704	1.1-	1.0-	2000 03 12	704	0.1+	0.7+
1990 12 16	400	1.5+	1.5+	2000 02 07	704	0.4-	0.2-	2000 03 12	704	0.6+	0.4+
1990 12 16	400	(2.7+	2.8+)	2000 02 07	704	1.0-	0.6-	2000 03 12	704	0.9+	0.4+
1991 01 05	399	(3.0-	0.5-)	2000 02 07	704	0.9-	1.0-	2000 03 12	704	0.3+	1.0+
1991 01 05	399	(4.2-	0.5-)	2000 02 07	704	1.1-	0.1+	2000 03 13	704	0.1-	0.1-
1991 01 05	399	0.6-	0.2-	2000 02 08	704	0.7+	0.2+	2000 03 13	704	0.2-	0.0
1991 01 13	071	(2.9-	0.5-)	2000 02 08	704	0.0	0.2-	2000 03 13	704	0.2+	0.1+
1991 01 13	071	0.7-	0.3-	2000 02 08	704	0.4+	0.1+	2000 03 13	704	0.3+	0.0
1998 10 02	699	0.4+	0.5+	2000 02 08	704	0.6-	0.3-	2000 03 14	703	0.3+	0.1+
1998 10 02	699	0.4+	0.5+	2000 02 08	704	0.1+	0.2-	2000 03 14	703	0.3+	0.1-
1998 10 02	699	0.4+	0.4+	2000 03 03	703	0.5+	0.2+	2000 03 14	703	0.2+	0.2-
1998 12 09	704	0.3-	1.2+	2000 03 03	703	0.2+	0.4+	2000 03 14	703	0.6+	0.3-
1998 12 09	704	0.6-	0.0	2000 03 03	703	0.1+	0.0	2000 04 04	699	0.4-	0.2-
1998 12 09	704	0.7-	1.1-	2000 03 03	703	0.2+	0.2+	2000 04 04	699	0.3-	0.3-
1998 12 09	704	0.6-	0.3-	2000 03 04	703	0.0	0.0	2000 04 04	699	0.2-	0.2-
1998 12 09	704	0.4+	1.3-	2000 03 04	703	0.1+	0.0	2000 04 04	704	1.2+	0.1+
2000 01 05	704	0.4-	1.2-	2000 03 04	703	0.4+	0.1-	2000 04 04	699	0.4-	0.3+
2000 01 05	704	0.4-	0.5-	2000 03 04	703	0.5-	0.0	2000 04 04	704	1.2+	1.5+
2000 01 05	704	0.4-	0.7-	2000 03 09	704	0.2+	0.3+	2000 04 04	704	1.8+	0.2+
2000 01 05	704	0.3-	1.4-	2000 03 09	704	0.0	0.4+	2000 04 04	704	0.2+	0.7+
2000 02 07	703	1.1-	0.5+	2000 03 09	704	0.1+	0.6+	2000 04 04	704	0.4+	0.0
2000 02 07	703	0.1-	0.1-	2000 03 09	704	0.1+	0.5+				

(14402)* 1991 DB

Discovered 1991 Feb. 18 by E. F. Helin at Palomar.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	338.02067	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.43838012	ω	51.10780	-0.86434428
<i>a</i>	1.7162036	Ω	158.43147	-0.50051753
<i>e</i>	0.4026571	<i>i</i>	11.42911	-0.04889949
<i>P</i>	2.25	<i>H</i>	18.4	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1991 02 13	675	1.6-	1.6-	2000 02 25	704	0.0	0.0	2000 03 10	610	0.2-	0.1+
1991 02 13	675	0.6-	1.4-	2000 02 25	704	0.1-	0.2+	2000 03 10	610	0.2-	0.1+
1991 02 18	675	0.9-	0.1+	2000 02 25	704	0.1-	0.1-	2000 03 10	610	0.4-	0.2+
1991 02 18	675	0.2-	2.0-	2000 02 25	704	0.1-	0.2+	2000 03 11	170	0.7-	0.4-
1991 02 19	675	(2.2+	0.5+)	2000 02 25	967	0.7-	0.8-	2000 03 11	170	1.1-	1.1-
1991 02 20	675	0.1+	0.5+	2000 02 25	967	0.5+	0.1-	2000 03 11	170	0.3+	0.9-
1991 02 20	675	1.2-	1.4-	2000 02 25	967	0.5+	0.4+	2000 03 12	170	(0.3-	2.7-)
1991 02 22	413	0.6+	1.5-	2000 02 26	557	0.2+	0.1-	2000 03 12	170	(1.1-	3.3-)
1991 02 23	413	0.5-	1.2-	2000 02 26	557	0.1+	0.2-	2000 03 12	704	0.0	0.1+
1991 02 25	413	0.5-	0.0	2000 02 26	557	0.3+	0.0	2000 03 12	704	0.1-	0.2+
1991 02 26	568	(1.8-	2.1-)	2000 02 26	557	0.4+	0.2-	2000 03 12	704	0.1-	0.5+
1991 03 09	674	0.0	2.0-	2000 02 27	151	0.4+	0.4+	2000 03 12	704	0.8+	0.1+
1991 03 09	674	1.9+	0.2+	2000 02 27	151	0.3+	1.3+	2000 03 12	704	0.2-	0.2+
1991 03 09	674	(3.7+	2.4+)	2000 02 27	151	0.3+	0.9+	2000 03 12	349	0.3-	0.0
1991 03 09	674	1.0+	1.2+	2000 02 27	151	0.2+	0.4+	2000 03 12	349	0.3-	0.2-
1991 03 09	674	(2.3-	0.2-)	2000 02 28	117	(0.4+	2.1+)	2000 03 12	349	0.0	0.2+
1991 03 09	674	(4.3-	0.0)	2000 02 28	967	0.5-	0.1-	2000 03 12	151	0.1+	0.4-
1991 03 11	657	0.3-	1.6-	2000 02 28	967	0.1+	0.6+	2000 03 12	151	0.1+	0.2-
1991 03 12	675	(2.7+	1.8-)	2000 02 28	967	0.8-	0.4-	2000 03 12	151	0.3+	0.3-
1991 03 12	675	(2.0+	2.6-)	2000 02 28	967	0.4-	0.2+	2000 03 12	151	0.2+	0.7-
1991 03 13	801	0.2+	0.1+	2000 02 28	967	0.0	0.1-	2000 03 12	117	(2.5+	0.5+)
1991 03 13	801	0.2+	0.2+	2000 02 28	967	0.3-	0.0	2000 03 12	117	1.9+	0.2+
1991 03 14	801	0.4-	0.8-	2000 02 29	967	0.0	0.2+	2000 03 12	967	0.7-	1.1-
1991 03 14	801	0.3-	0.3-	2000 02 29	967	0.2-	0.3+	2000 03 12	967	0.5-	0.6-
1991 03 17	675	(1.1+	2.2-)	2000 02 29	704	0.2+	0.5+	2000 03 12	967	0.8-	0.3-
1991 03 17	675	(0.3-	3.0-)	2000 02 29	704	0.2+	0.0	2000 03 13	967	1.0-	0.1-
1991 03 18	675	(2.5+	0.6+)	2000 02 29	704	0.4+	0.0	2000 03 13	967	0.9-	0.2-
1991 03 21	801	0.3-	0.3+	2000 02 29	704	0.3+	0.1-	2000 03 15	704	0.2+	0.2-
1991 03 21	801	0.3-	0.1+	2000 03 01	294	0.6+	0.3+	2000 03 15	704	0.1+	0.2+
1991 03 21	657	0.4+	0.6+	2000 03 01	294	1.9-	1.2-	2000 03 15	704	0.0	0.2+
1991 03 21	657	0.1-	0.8-	2000 03 01	360	0.3+	0.0	2000 03 15	704	0.1+	0.3+
1991 04 18	657	1.7-	1.6-	2000 03 01	360	0.2+	0.2-	2000 03 15	704	0.0	0.5+
1991 04 18	657	(2.1+	0.6-)	2000 03 01	360	0.3+	0.0	2000 03 17	704	0.1+	0.4+
1991 04 19	657	0.0	0.3+	2000 03 01	967	0.5+	0.3+	2000 03 17	704	0.1+	0.2+
1991 04 19	657	0.2-	1.5+	2000 03 01	967	0.0	0.2+	2000 03 17	704	0.2-	0.4+
1991 05 13	801	0.2-	0.4-	2000 03 01	967	0.2-	0.1-	2000 03 17	704	0.0	0.5+
1991 05 17	801	0.3-	0.3-	2000 03 01	967	0.1-	0.5+	2000 03 17	704	0.1+	0.4+
1991 05 17	801	(2.7+	3.0-)	2000 03 02	703	0.3+	0.8+	2000 03 18	967	1.8-	0.1+
1991 06 09	801	0.7-	1.8-	2000 03 02	703	0.6+	1.0+	2000 03 18	967	1.0+	1.0+
1991 06 09	801	0.4+	0.5+	2000 03 02	703	0.1-	1.0+	2000 03 18	967	0.5+	0.6+
1991 06 11	801	0.1-	0.9-	2000 03 02	703	0.6+	1.0+	2000 03 18	967	0.4+	1.0-
1991 06 11	801	0.3+	1.3-	2000 03 02	610	0.4+	0.0	2000 03 18	967	1.5-	0.5+
1991 06 14	801	0.2-	0.1+	2000 03 02	610	0.2+	0.1-	2000 03 19	670	0.1-	0.3+
1991 06 14	801	0.8-	0.8-	2000 03 02	610	0.1+	0.2-	2000 03 19	670	0.1-	0.3+
1991 07 09	801	0.4-	1.3-	2000 03 02	610	0.0	0.3-	2000 03 21	151	0.5-	0.1-
1991 07 09	801	0.3+	1.0+	2000 03 02	610	0.2-	0.5-	2000 03 21	151	0.2+	0.1-
1991 07 10	801	(2.7+	2.3-)	2000 03 04	294	1.1+	0.1-	2000 03 21	151	0.6-	0.3+
1991 07 10	801	0.0	1.1-	2000 03 04	294	0.7-	0.3-	2000 03 21	151	0.7+	0.5-
2000 02 04	046	0.6-	0.2-	2000 03 04	557	0.1-	0.3-	2000 03 22	611	0.4+	0.2+
2000 02 04	046	0.0	0.3-	2000 03 04	557	0.2-	0.2-	2000 03 22	611	0.4-	0.1+
2000 02 04	046	0.2-	0.1+	2000 03 04	557	0.2-	0.4-	2000 03 22	611	0.1-	0.2+
2000 02 04	046	0.1-	0.0	2000 03 05	557	0.3+	0.2+	2000 03 23	118	0.1+	0.0
2000 02 04	046	0.0	0.0	2000 03 05	557	0.2+	0.0	2000 03 23	118	0.3+	0.0
2000 02 04	422	0.2-	0.3-	2000 03 05	557	0.0	0.0	2000 03 25	704	0.3-	0.2+
2000 02 04	422	0.2-	0.3-	2000 03 05	704	0.2+	0.1-	2000 03 25	704	0.3-	0.4+
2000 02 04	422	0.2-	0.3-	2000 03 05	704	0.4+	0.3-	2000 03 25	704	0.2-	0.5+
2000 02 04	422	0.0	0.1-	2000 03 05	704	0.4+	0.2-	2000 03 25	704	0.0	0.6+

2000 02 05	422	0.1+	0.7-	2000 03 05	704	0.4+	0.2-	2000 03 25	704	0.2-	0.7+
2000 02 05	422	0.1-	0.5-	2000 03 05	704	0.5+	0.2-	2000 03 29	750	0.3-	0.0
2000 02 05	422	0.1+	0.6-	2000 03 05	608	0.0	0.6-	2000 03 29	750	0.1-	0.1+
2000 02 05	046	0.4+	0.1+	2000 03 05	608	0.0	0.6-	2000 03 29	750	(2.4+	0.4+)
2000 02 05	046	0.6+	0.0	2000 03 05	608	0.1+	0.6-	2000 03 29	750	0.4+	0.1-
2000 02 05	046	0.2-	0.7+	2000 03 05	900	0.1-	0.1-	2000 03 29	750	0.0	0.3+
2000 02 05	046	0.7-	1.1+	2000 03 05	900	0.1+	0.0	2000 03 29	750	0.0	0.1-
2000 02 05	046	0.6+	0.1-	2000 03 05	151	0.3-	0.4-	2000 03 31	642	(2.1-	0.1-)
2000 02 05	046	0.6+	0.7+	2000 03 05	151	0.7-	0.1-	2000 03 31	642	(2.3+	1.6+)
2000 02 05	046	0.9+	0.3+	2000 03 05	151	0.7-	0.8-	2000 03 31	642	1.6-	1.3-
2000 02 05	046	0.3+	0.1-	2000 03 05	610	0.4+	0.3+	2000 03 31	557	0.0	0.2+
2000 02 05	046	0.4+	0.1+	2000 03 05	610	0.5+	0.1-	2000 03 31	557	0.1-	0.2+
2000 02 07	703	0.3+	0.6+	2000 03 05	610	0.5+	0.6-	2000 03 31	557	0.0	0.2+
2000 02 07	703	0.7+	0.4+	2000 03 05	610	0.6+	0.8-	2000 03 31	557	0.3-	0.3+
2000 02 07	703	0.3+	0.1-	2000 03 05	610	0.6+	1.2-	2000 03 31	557	0.2+	0.6+
2000 02 07	703	0.7+	0.2+	2000 03 06	610	0.4-	0.9+	2000 04 01	557	0.4-	0.1-
2000 02 08	704	0.5+	0.1-	2000 03 06	610	0.5-	1.1+	2000 04 01	557	0.1+	0.1-
2000 02 08	704	0.3+	0.1-	2000 03 06	610	0.6-	1.2+	2000 04 01	557	0.2-	0.6+
2000 02 08	704	0.8+	0.8+	2000 03 06	610	0.7-	1.3+	2000 04 01	557	0.5-	0.5+
2000 02 08	704	0.6+	0.2-	2000 03 06	610	0.6-	1.4+	2000 04 01	151	(1.5-	2.4-)
2000 02 10	360	0.3+	0.2-	2000 03 08	349	0.0	0.0	2000 04 01	151	0.2+	1.6-
2000 02 10	360	0.4+	0.6-	2000 03 08	349	0.3+	0.2-	2000 04 01	151	0.4-	0.1+
2000 02 10	360	0.2+	0.3-	2000 03 08	349	0.4+	0.2-	2000 04 01	151	0.4+	0.4+
2000 02 13	704	0.8+	0.2+	2000 03 08	349	0.3+	0.3-	2000 04 01	610	(2.1+	0.1+)
2000 02 13	704	1.1-	0.2+	2000 03 08	170	0.5+	0.4-	2000 04 01	610	1.8+	0.0
2000 02 13	704	0.7+	0.1+	2000 03 08	170	(4.0-	2.4+)	2000 04 01	610	1.6+	0.1-
2000 02 13	704	0.4+	0.5-	2000 03 08	170	0.9+	0.1-	2000 04 01	610	1.4+	0.1-
2000 02 14	557	0.1-	0.3-	2000 03 08	170	0.6+	0.6-	2000 04 06	557	1.2+	0.4-
2000 02 14	557	0.1+	0.2-	2000 03 08	170	0.9+	0.3+	2000 04 06	557	0.5-	0.6+
2000 02 14	557	0.0	0.3-	2000 03 09	170	0.7+	0.1-	2000 04 06	557	0.8+	0.2+
2000 02 14	557	0.1-	0.4-	2000 03 09	170	0.0	0.1+	2000 04 06	557	0.3+	0.7+
2000 02 14	557	0.3+	0.1+	2000 03 09	170	0.3-	0.4+	2000 04 06	557	0.5+	0.9+
2000 02 14	557	0.0	0.2-	2000 03 09	170	0.7+	0.8+	2000 04 06	557	0.7-	0.5-
2000 02 21	967	1.4-	1.4+	2000 03 10	610	0.0	0.1+	2000 04 18	118	0.2+	0.6+
2000 02 21	967	1.0-	1.5+	2000 03 10	610	0.1-	0.0	2000 04 18	118	0.6+	0.9+

(14403)* 1991 GM₈ = 1999 BS₈

Discovered 1991 Apr. 8 by E. W. Elst at the European Southern Observatory.

Id. B. G. Marsden (*MPC* 33679)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	254.39652	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21356752	ω	24.65362	+0.34006808
<i>a</i>	2.7719108	Ω	265.25897	+0.29452484
<i>e</i>	0.0424076	<i>i</i>	2.86071	+0.17713053
<i>P</i>	4.61	<i>H</i>	14.2	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1991 04 08	809	0.7+	0.6+	1998 12 15	704	0.5-	0.8-	2000 03 09	704	0.0	0.0
1991 04 08	809	0.6+	0.4+	1998 12 15	704	1.6+	0.4-	2000 03 09	704	0.0	0.0
1991 04 08	809	0.2+	0.3+	1998 12 15	704	(2.0+	2.2-)	2000 03 26	699	0.2+	0.9+
1991 04 10	809	2.0+	0.4-	1999 01 22	046	0.3-	0.2-	2000 03 26	699	0.2+	0.4+
1991 04 10	809	0.1+	0.1+	1999 01 22	046	0.1-	0.6-	2000 03 26	699	0.1+	0.3+
1991 04 10	809	1.0+	1.0-	1999 01 22	046	0.1-	0.6+	2000 03 26	699	0.2+	0.1+
1991 04 15	675	1.5-	1.3-	1999 01 22	046	0.0	0.2+	2000 04 07	699	0.5+	0.8+
1991 04 15	675	1.5-	0.9-	1999 01 22	046	0.2+	0.4-	2000 04 07	699	0.0	0.6+
1991 04 19	809	1.2-	0.3-	1999 01 23	046	0.4-	0.2+	2000 04 07	699	0.1-	0.2+
1991 04 19	809	0.2-	0.2+	1999 01 23	046	0.1-	0.2+	2000 04 07	704	0.2-	0.1+
1991 04 19	809	1.1-	0.5-	1999 01 23	046	0.3-	0.0	2000 04 07	699	0.1+	0.3+
1997 10 04	691	0.0	0.6+	1999 01 23	046	0.1-	0.0	2000 04 07	704	0.5+	0.6+
1997 10 04	691	0.4-	0.5+	1999 01 23	046	0.2-	0.2+	2000 04 07	704	0.6-	0.7+
1997 10 04	691	0.1+	0.1+	2000 03 03	703	0.4-	0.7-	2000 04 07	704	0.1-	0.2+
1997 10 04	691	0.1-	0.4+	2000 03 03	703	0.2+	0.2+	2000 04 07	704	0.2-	0.3+
1997 10 04	691	0.0	0.5+	2000 03 03	703	0.1-	0.9+	2000 04 08	704	0.2+	0.8-
1997 10 04	691	0.2+	0.7+	2000 03 03	703	0.3+	0.2-	2000 04 08	704	0.3-	0.5+
1997 11 02	327	0.5-	0.3-	2000 03 09	704	1.0+	0.1-	2000 04 08	704	0.5+	0.0
1997 11 02	327	0.2-	0.4+	2000 03 09	704	0.8+	0.6-	2000 04 08	704	0.4+	0.0
1997 11 02	327	0.5-	0.4-	2000 03 09	704	0.3+	0.0	2000 04 08	704	1.1-	0.6+

(14404)* 1991 NQ₆ = 1993 BY₁₄

Discovered 1991 July 11 by H. Debehogne at the European Southern Observatory.

Id. K. Ichikawa (*MPC* 28298)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	126.32481	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28854139	ω	100.31470	+0.95618701
<i>a</i>	2.2681093	Ω	276.07133	+0.22691056
<i>e</i>	0.1664137	<i>i</i>	4.63238	+0.18498107
<i>P</i>	3.42	<i>H</i>	14.8	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1991 07 11	809	0.1-	0.1+	1998 08 17	704	0.6-	0.2-	1998 10 11	699	0.0	0.2+
1991 07 11	809	0.5+	0.0	1998 08 17	704	0.4-	0.1+	1998 11 19	699	1.3-	0.3-
1991 07 11	809	0.6+	0.1-	1998 08 23	704	0.7+	0.2-	1998 11 19	699	1.8-	0.3+
1991 07 15	809	1.0-	0.2+	1998 08 23	704	0.1+	1.0+	1998 11 19	699	0.7-	0.0
1991 07 15	809	0.4-	0.5+	1998 08 23	704	1.5+	0.2+	2000 02 02	704	1.0+	0.7+
1991 07 15	809	0.2+	0.7+	1998 08 23	704	(2.6+	1.3+)	2000 02 02	704	0.6-	0.2-
1991 07 16	809	0.6-	0.1-	1998 09 14	704	0.3-	0.1-	2000 02 02	704	0.2-	0.4+
1991 07 16	809	0.3-	0.2+	1998 09 14	704	0.3+	0.6+	2000 02 02	704	0.0	0.8+
1991 07 16	809	0.1+	0.5+	1998 09 14	704	0.7+	0.8+	2000 02 02	704	0.5-	1.5-
1993 01 23	809	0.7-	0.3+	1998 09 14	704	0.2-	1.2+	2000 02 06	704	0.7-	0.2+
1993 01 23	809	0.2+	1.7+	1998 09 14	704	0.0	0.2-	2000 02 06	704	0.3-	0.6+
1993 01 23	809	0.2-	1.5+	1998 09 18	704	1.0+	0.8+	2000 02 06	704	0.7+	0.4+
1993 01 28	809	0.5+	1.0-	1998 09 18	704	0.8-	0.4+	2000 02 06	704	0.1+	0.6+
1993 01 28	809	0.7+	0.6-	1998 09 18	704	1.6+	1.4-	2000 04 04	699	0.8+	0.9+
1993 01 28	809	0.5+	0.5-	1998 09 18	704	0.8-	0.6-	2000 04 04	699	0.9+	0.7+
1998 08 17	704	0.1-	0.3-	1998 09 18	704	1.1-	1.1-	2000 04 04	699	0.3-	0.2-
1998 08 17	704	0.2+	0.1-	1998 10 11	699	0.2-	1.0+	2000 04 04	699	0.3+	0.8+
1998 08 17	704	0.1+	0.0	1998 10 11	699	0.5-	0.9+				

(14405)* 1991 PE₈ = 1999 XH₇₃

Discovered 1991 Aug. 5 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 37117)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.60584	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26682917	ω	223.54526	+0.97645775
<i>a</i>	2.3895375	Ω	124.10798	-0.18600597
<i>e</i>	0.1988617	<i>i</i>	2.18209	-0.10923386
<i>P</i>	3.69	<i>H</i>	14.8	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1991 08 05	809	1.3+	0.3+	1994 04 12	691	0.5+	0.4-	1999 11 15	704	0.1-	0.3-
1991 08 05	809	0.2-	0.9+	1994 04 12	691	0.6+	0.2-	1999 11 15	704	0.1-	0.2-
1991 08 05	675	0.2+	0.6-	1997 02 11	691	0.3-	0.4-	1999 12 07	704	0.5+	1.1-
1991 08 05	809	0.6+	0.1+	1997 02 11	691	0.6-	0.4-	1999 12 07	704	0.1+	0.5-
1991 08 05	675	1.5+	0.8+	1997 02 11	691	0.3-	0.5-	1999 12 07	704	0.2+	1.1-
1991 08 07	675	(2.5+	1.4-)	1998 05 24	704	0.8-	0.5+	1999 12 07	704	0.1-	1.0-
1991 08 07	675	0.1+	0.2-	1998 05 24	704	0.7-	0.2-	1999 12 08	704	0.4-	0.6-
1991 08 14	809	0.3-	0.4-	1998 05 24	704	0.4-	0.2-	1999 12 08	704	0.7-	0.8-
1991 08 14	809	0.4+	0.3-	1998 05 24	704	0.6+	1.2-	1999 12 08	704	0.3+	0.7-
1991 08 14	809	0.2-	0.5-	1998 05 24	704	0.3+	1.2-	1999 12 15	703	0.1+	0.6+
1991 09 04	809	0.4-	0.2-	1998 06 03	704	0.3+	1.7-	1999 12 15	703	0.6-	0.2+
1991 09 04	809	1.7-	0.1-	1998 06 03	704	1.5-	0.2+	1999 12 15	703	0.3+	0.4+
1991 09 04	809	(2.2-	0.8-)	1998 06 03	704	1.1+	1.3-	1999 12 15	703	0.2-	1.2+
1991 09 07	809	0.1-	1.2-	1998 06 03	704	(2.3+	0.2+)	2000 01 05	704	0.3+	0.5-
1991 09 07	809	0.6-	0.6-	1999 11 15	704	0.1-	0.2-	2000 01 05	704	0.2-	0.2-
1991 09 07	809	0.5-	1.0-	1999 11 15	704	0.4+	0.4-	2000 01 05	704	0.3+	0.3-
1994 04 12	691	0.8-	0.0	1999 11 15	704	0.5+	0.2-	2000 01 05	704	0.4+	0.8-

2000 APR. 18

M.P.C. 39821

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.95687		(2000.0)	P	Q
<i>n</i>	0.17830435	ω	252.16956	+0.87386570	+0.48438733
<i>a</i>	3.1262815	Ω	78.84044	-0.42846953	+0.80773448
<i>e</i>	0.1657459	<i>i</i>	2.42813	-0.22972288	+0.33605643
<i>P</i>	5.53	<i>H</i>	13.3	<i>G</i>	0.15

Residuals in seconds of arc

1989 03 05	033	0.6+	0.1-	1997 10 30	704	0.2-	0.1+	2000 03 08	704	0.2+	0.4-
1989 03 05	033	0.7-	0.5-	1997 10 30	704	0.1-	0.8-	2000 03 08	704	0.8+	0.1+
1991 08 05	675	0.3-	0.1-	1997 10 30	704	0.5-	1.0-	2000 03 08	704	0.1+	0.0
1991 08 05	675	0.1+	0.6+	1997 10 30	704	1.1-	0.8+	2000 03 08	704	0.5+	0.2+
1991 08 07	675	0.4-	0.0	1997 10 30	566	0.3-	0.2+	2000 03 08	704	0.1+	0.0
1991 08 07	675	0.2-	0.3-	1997 10 30	566	0.1-	0.1-	2000 03 09	704	0.6+	0.2+
1991 08 10	675	(2.1+	0.0)	1997 10 30	566	0.2-	0.1+	2000 03 09	704	0.3+	0.0
1991 08 10	675	1.0+	1.3-	2000 02 06	695	0.4-	0.1-	2000 03 09	704	0.1+	0.4+
1992 11 24	691	0.0	0.9-	2000 02 06	695	0.4-	0.2-	2000 03 09	704	0.2-	0.2-
1992 11 24	691	0.1+	0.7-	2000 02 11	704	0.1+	0.8+	2000 03 09	704	0.1-	0.5-
1992 11 24	691	0.4+	0.8-	2000 02 11	704	0.8+	0.1+	2000 03 12	704	0.2+	0.3+
1997 09 01	327	0.1+	1.0+	2000 02 11	704	0.3+	0.0	2000 03 12	704	0.1-	0.4+
1997 09 01	327	0.2+	0.6+	2000 02 11	704	0.6+	0.6+	2000 03 12	704	0.2-	0.8+
1997 09 01	327	0.0	0.8+	2000 02 25	703	0.3+	0.6-	2000 03 12	704	0.3-	0.5+
1997 09 12	327	0.1-	0.4+	2000 02 25	703	0.9-	0.0	2000 03 12	704	0.4+	0.8+
1997 09 12	327	0.1+	0.5+	2000 02 25	703	0.0	0.7-	2000 04 03	699	1.2-	0.8+
1997 09 12	327	0.1-	0.3+	2000 02 25	703	0.2+	0.0	2000 04 03	699	0.8+	0.2-
1997 09 13	327	0.2-	0.2+	2000 03 05	704	0.1-	0.5+	2000 04 03	699	0.3-	0.2+
1997 09 13	327	0.0	0.5+	2000 03 05	704	0.3-	0.1+	2000 04 03	699	0.1-	0.2+
1997 09 13	327	0.1+	1.2+	2000 03 05	704	0.6-	0.8-				
1997 10 30	704	0.9+	1.0-	2000 03 05	704	(0.0	2.0-)				

(14407)* 1991 PQ₈ = 1976 UO₁₃ = 1999 AX₁₅

Discovered 1991 Aug. 5 by H. E. Holt at Palomar.

Id. A. Doppler (*MPC* 33931)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.03706		(2000.0)	P	Q
<i>n</i>	0.18913404	ω	206.03156	+0.81427330	+0.57971640
<i>a</i>	3.0057735	Ω	118.50590	-0.52648710	+0.75917799
<i>e</i>	0.1003209	<i>i</i>	1.94318	-0.24447971	+0.29593524
<i>P</i>	5.21	<i>H</i>	13.8	<i>G</i>	0.15

Residuals in seconds of arc

1976 10 22	381	0.3-	1.3+	1997 11 06	704	(3.0+	1.7+)	2000 03 14	691	0.3-	0.7+
1976 10 22	381	0.1+	1.3+	1997 11 06	704	(3.8+	1.8+)	2000 03 27	699	0.1-	0.5+
1991 08 05	809	(2.5-	0.6-)	1997 11 06	704	(3.7+	2.0+)	2000 03 27	699	0.1+	0.2+
1991 08 05	809	(2.8-	0.5-)	1997 11 06	704	(2.7+	1.0+)	2000 03 27	699	0.2+	0.1+
1991 08 05	809	1.4-	0.5-	1997 11 06	704	(3.0+	1.0+)	2000 03 27	699	0.3-	0.4-
1991 08 05	809	1.0+	0.9-	1998 10 29	691	0.3+	0.3-	2000 04 02	699	0.4-	0.2-
1991 08 05	675	0.9-	0.5-	1998 10 29	691	0.3+	0.6-	2000 04 02	699	0.9-	0.5+
1991 08 05	809	0.4+	0.1-	1998 10 29	691	0.1+	0.4-	2000 04 02	699	0.4-	0.0
1991 08 05	809	0.1+	1.3-	1999 01 09	691	0.9-	0.5-	2000 04 02	699	0.6-	0.1-
1991 08 05	675	0.4-	0.3+	1999 01 09	691	0.7-	0.5-	2000 04 03	699	0.1-	0.2-
1991 08 07	675	0.9+	1.1-	1999 01 09	691	0.7-	0.6-	2000 04 03	699	0.3-	0.3-
1991 08 07	675	0.7+	0.9-	1999 01 15	691	0.9-	0.7-	2000 04 03	699	0.0	0.4-
1991 09 04	809	(3.5-	0.4-)	1999 01 15	691	0.9-	0.2-	2000 04 03	699	1.9-	0.2-
1991 09 04	809	(5.6-	1.0-)	1999 01 15	691	1.1-	0.8-	2000 04 04	704	1.0+	0.3+
1991 09 04	809	(6.3-	4.3-)	1999 01 16	691	0.9+	0.2-	2000 04 04	704	1.6+	0.3-
1991 09 06	809	0.5-	0.5+	1999 01 16	691	0.8+	0.7-	2000 04 04	704	0.2+	0.1+
1991 09 06	809	(2.6-	1.2+)	1999 01 16	691	0.9+	0.4-	2000 04 04	704	0.3-	0.7+
1991 09 06	809	(5.0-	2.1+)	1999 01 22	691	0.3-	0.5-	2000 04 05	704	1.9+	1.4+
1992 11 26	691	0.7-	0.0	1999 01 22	691	0.4-	0.2-	2000 04 05	704	0.4-	1.0+
1992 11 26	691	0.5-	0.2+	1999 01 22	691	0.1-	0.3-	2000 04 05	704	0.6+	0.1+
1992 11 26	691	0.2-	0.3+	2000 03 01	703	0.4+	0.3-	2000 04 05	704	0.5+	0.4+
1996 07 22	566	0.4+	0.9+	2000 03 01	703	1.5-	0.3-	2000 04 05	704	0.6+	0.1-
1996 07 22	566	0.1+	0.6+	2000 03 01	703	0.1+	0.2+	2000 04 06	704	0.2+	0.1+
1996 07 22	566	0.7-	0.6+	2000 03 01	703	0.2-	0.0	2000 04 06	704	0.2+	0.7+
1997 10 29	704	0.1+	0.3-	2000 03 08	704	0.2+	0.5+	2000 04 06	704	0.5+	0.5-

1997 10 29	704	1.0-	0.7+	2000 03 08	704	0.1-	1.0+	2000 04 06	704	0.5+	0.3+
1997 10 29	704	0.8+	0.0	2000 03 08	704	0.6+	0.2+	2000 04 07	699	0.3+	1.0+
1997 10 29	704	0.9-	0.2+	2000 03 08	704	0.6-	0.9+	2000 04 07	699	1.2+	0.0
1997 10 30	704	(2.4+	0.5-)	2000 03 08	704	0.2+	0.7+	2000 04 07	699	0.5+	0.0
1997 10 30	704	1.3+	0.5+	2000 03 08	704	0.2+	1.0+	2000 04 07	699	0.1-	0.0
1997 10 30	704	0.4+	0.0	2000 03 08	704	0.6-	0.0	2000 04 08	704	0.0	0.8-
1997 10 30	704	0.9+	0.5-	2000 03 08	704	0.1-	1.2+	2000 04 08	704	1.0-	0.3-
1997 10 30	704	(2.5-	0.9+)	2000 03 08	704	0.2+	0.6+	2000 04 08	704	1.1+	0.6+
1997 10 31	704	0.7-	1.9+	2000 03 10	704	0.6-	0.2+	2000 04 10	704	0.2+	0.7+
1997 10 31	704	(0.3-	2.0+)	2000 03 10	704	0.2+	0.3-	2000 04 10	704	0.3-	0.9-
1997 10 31	704	0.3+	1.2+	2000 03 10	704	0.3+	0.6+	2000 04 10	704	0.2+	0.6-
1997 10 31	704	(0.1-	2.2+)	2000 03 10	704	1.3+	1.2+	2000 04 10	704	0.0	0.4+
1997 10 31	704	(0.7-	2.2+)	2000 03 11	704	0.6+	0.6-	2000 04 10	704	1.1-	0.3-
1997 11 03	704	0.2-	1.3+	2000 03 11	704	1.0-	0.4-	2000 04 10	704	0.5+	0.3-
1997 11 03	704	0.4+	1.2+	2000 03 11	704	0.5-	0.1+	2000 04 10	704	0.1-	0.2-
1997 11 03	704	0.7+	0.1-	2000 03 11	704	0.8+	0.3-	2000 04 10	704	0.0	0.4-
1997 11 03	704	0.9-	0.1-	2000 03 14	691	0.1+	0.7-	2000 04 10	704	0.4+	0.2+
1997 11 03	704	1.1-	0.3-	2000 03 14	691	0.0	0.9-	2000 04 10	704	0.3+	0.7-

(14408)* 1991 PC₁₆ = 1986 UT₄

Discovered 1991 Aug. 6 by H. E. Holt at Palomar.

Id. S. Nakano (*MPC* 30871)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	192.59561		(2000.0)	P	Q
<i>n</i>	0.17655788	ω	241.64009	+0.82434425	+0.56602612
<i>a</i>	3.1468640	Ω	83.88515	-0.51636520	+0.75795263
<i>e</i>	0.2078959	<i>i</i>	0.48551	-0.23199900	+0.32422562
<i>P</i>	5.58	<i>H</i>	13.3	<i>G</i>	0.15

Residuals in seconds of arc

1986 10 23	381	1.0-	1.3-	1997 11 03	704	1.2+	0.4+	2000 02 29	704	1.1-	0.3+
1986 10 23	381	0.6-	1.5-	1997 11 03	704	0.5+	0.5+	2000 03 03	704	0.1-	0.6-
1986 10 25	381	0.5+	1.6+	1997 11 03	704	0.3+	0.3-	2000 03 03	704	0.4+	0.0
1986 10 25	381	2.1+	0.6+	1997 11 03	704	0.6+	0.6-	2000 03 03	704	0.3+	0.0
1986 10 25	381	1.5+	1.1+	1997 11 03	704	0.3-	1.9-	2000 03 03	704	0.1+	0.7-
1986 10 25	381	1.8-	1.0-	1998 12 17	704	0.0	1.5+	2000 03 03	704	0.0	0.3-
1991 08 06	675	0.3+	0.4-	1998 12 17	704	1.5+	0.1-	2000 03 05	704	0.7+	0.2+
1991 08 06	675	0.2-	0.8-	1998 12 17	704	1.4-	1.9-	2000 03 05	704	0.2-	0.1-
1991 08 10	675	0.5-	0.2-	1998 12 17	704	0.1+	1.0+	2000 03 05	704	0.6+	0.2+
1991 08 10	675	0.0	0.4-	1998 12 17	704	1.7-	1.1+	2000 03 05	704	0.1+	0.4+
1991 09 12	675	0.0	1.3+	2000 01 16	691	0.5+	0.2-	2000 03 05	704	0.1+	0.2+
1991 09 12	675	0.4-	1.0+	2000 01 16	691	0.4+	0.4-	2000 03 11	699	1.1-	0.1+
1997 10 22	327	0.9-	0.3+	2000 01 16	691	0.3+	0.3-	2000 03 11	699	0.3+	0.1+
1997 10 22	327	0.5-	0.1+	2000 02 08	704	0.4-	0.3-	2000 03 11	699	0.1-	0.0
1997 10 22	327	0.3-	0.3+	2000 02 08	704	0.3-	0.1-	2000 03 11	699	0.5-	0.6-
1997 10 30	704	0.8+	0.7+	2000 02 08	704	0.3+	0.1+	2000 04 05	691	0.0	0.7-
1997 10 30	704	0.0	0.2-	2000 02 29	704	0.4+	0.5+	2000 04 05	691	0.1+	0.4-
1997 10 30	704	0.6+	0.3+	2000 02 29	704	0.2-	0.4+	2000 04 05	691	0.0	0.2-
1997 10 30	704	0.6-	0.4-	2000 02 29	704	0.2-	0.4+				
1997 10 30	704	0.4-	0.4+	2000 02 29	704	0.1+	0.5+				

(14409)* 1991 RM₁ = 2000 DK

1991 09 15	413	0.1+	0.7+	1999 01 09	704	1.9+	1.0-	2000 03 26	704	0.3+	0.3+
1991 10 02	413	0.6-	0.7+	1999 01 09	704	1.2-	1.0+	2000 03 26	704	0.0	0.3+
1991 10 05	413	0.1-	0.4-	1999 01 09	704	0.3-	1.6-	2000 03 26	704	0.5+	0.6+
1997 12 28	566	0.0	0.2-	1999 12 30	704	0.4-	0.9+	2000 03 26	704	0.4+	0.6+
1997 12 28	566	0.1-	0.1-	1999 12 30	704	0.6+	0.3-	2000 03 26	704	0.8+	1.3+
1997 12 28	566	0.2-	0.2+	1999 12 30	704	0.5+	0.9-	2000 04 10	699	0.3-	0.3+
1998 11 16	704	0.4+	0.2-	1999 12 30	704	0.4-	1.3-	2000 04 10	699	0.0	0.0
1998 11 16	704	0.5+	0.3-	1999 12 30	704	0.1-	1.1-	2000 04 10	699	0.0	0.0
1998 11 16	704	1.1+	1.9-	2000 02 16	704	0.1-	0.4-	2000 04 10	699	0.2-	0.5+
1998 11 16	704	0.7+	0.1+	2000 02 16	704	0.3-	0.0	2000 04 13	699	0.1-	0.2+
1998 11 16	704	1.0-	0.7-	2000 02 16	704	0.2+	0.5+	2000 04 13	699	0.7+	0.1+
1998 12 12	704	1.3-	1.2+	2000 02 16	704	0.2+	0.4+	2000 04 13	699	0.3+	0.2+
1998 12 12	704	0.3+	0.1+	2000 02 16	704	0.3-	0.7+	2000 04 13	699	0.0	0.6+
1998 12 12	704	0.7+	0.4+	2000 02 25	704	0.1-	0.4+				
1998 12 12	704	0.2+	0.4+	2000 02 25	704	0.4-	0.2+				

(14410)* 1991 RR₁

Discovered 1991 Sept. 7 by S. Ueda and H. Kaneda at Kushiro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	235.17338		(2000.0)		P		Q
n	0.18453025	ω	94.99195		+0.81011582		+0.57255772
a	3.0555614	Ω	230.14261		-0.58159965		+0.75778048
e	0.1393880	i	9.45143		-0.07385264		+0.31296390
P	5.34	H	12.1	G	0.15	U	1

Residuals in seconds of arc

1991 09 07	399	0.5+	0.9+	1997 12 03	399	0.3-	1.9+	2000 03 27	699	0.5+	0.0
1991 09 07	399	0.2-	0.2-	1997 12 03	399	0.7+	0.5+	2000 03 27	699	0.6-	0.3+
1991 09 13	399	0.5-	0.8+	1997 12 04	704	0.3+	0.5-	2000 03 27	699	0.8+	0.0
1991 09 13	399	0.0	0.5-	1997 12 04	704	0.5+	0.1-	2000 03 27	699	0.8-	0.3+
1991 09 15	399	0.1-	0.9+	1997 12 04	704	0.4+	0.2-	2000 03 27	699	0.6+	0.4+
1991 09 30	399	(2.3-	2.8+)	1997 12 04	704	0.9+	0.9-	2000 03 27	699	0.6-	0.7+
1991 10 18	399	0.5+	0.2-	1997 12 28	566	1.2+	0.3+	2000 03 27	699	0.7+	0.1-
1991 10 18	399	0.9-	0.9+	1997 12 28	566	1.2+	0.2+	2000 03 27	699	0.7-	0.3+
1997 11 06	411	1.4+	0.0	1997 12 28	566	1.3+	0.4+	2000 04 06	699	0.0	0.6+
1997 11 06	411	1.6+	1.1+	1999 02 12	704	0.3+	0.5-	2000 04 06	699	0.1-	0.4+
1997 11 07	411	0.8+	0.2-	1999 02 12	704	0.3-	0.2-	2000 04 06	699	0.0	0.3+
1997 11 07	411	0.5+	0.1+	1999 02 12	704	0.1-	0.6-	2000 04 06	699	0.1+	0.3+
1997 11 24	399	1.2+	0.8+	1999 02 12	704	0.7-	0.0	2000 04 06	699	0.0	0.4+
1997 11 24	399	(1.7+	2.6+)	1999 02 12	704	0.3-	0.8-	2000 04 06	699	0.3-	0.5+
1997 11 26	704	1.6-	0.5+	2000 03 05	608	0.2-	0.5-	2000 04 06	699	0.5-	2.1+
1997 11 26	704	1.7-	0.5+	2000 03 05	608	0.0	0.2-	2000 04 06	699	0.1-	0.4+
1997 11 26	704	1.5-	0.2+	2000 03 05	608	0.5-	0.4-	2000 04 07	704	0.5+	0.0
1997 11 29	704	1.0-	0.1-	2000 03 14	704	0.1+	0.5-	2000 04 07	704	0.5+	0.0
1997 11 29	704	0.6-	0.1-	2000 03 14	704	0.5+	0.4-	2000 04 07	704	0.3+	0.1+
1997 11 29	704	0.8-	0.6-	2000 03 14	704	0.0	0.3+	2000 04 07	704	0.3+	0.3+
1997 11 29	704	2.0-	0.2-	2000 03 14	704	0.4+	0.2-	2000 04 07	704	0.4+	0.1+
1997 11 29	704	1.9-	0.0	2000 03 14	704	0.5+	0.6+				

(14411)* 1991 RE₂ = 1957 WX = 1991 RH₁₉ = 1995 YB₂₀

Discovered 1991 Sept. 6 by E. W. Elst at Haute Provence.

Id. S. Nakano (d, *MPC* 19822), A. Doppler (*MPC* 31381), A. Milani (*MPC* 34494)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	119.12275		(2000.0)		P		Q
n	0.28716891	ω	149.71911		+0.56772484		-0.81929328
a	2.2753302	Ω	265.57543		+0.73821563		+0.54984071
e	0.1449046	i	4.61923		+0.36431605		+0.16258449
P	3.43	H	14.2	G	0.15	U	1

Residuals in seconds of arc

1957 11 26	760	0.2+	0.5-	1998 10 28	704	0.3+	0.3+	2000 03 10	704	0.8-	1.3+
1957 11 26	760	0.3-	0.5+	1998 10 28	704	0.2-	1.0+	2000 03 10	704	0.2+	0.3+
1991 09 06	511	0.6+	1.3-	1998 10 28	704	0.6+	0.9+	2000 03 10	704	1.1+	0.7+
1991 09 07	511	1.9+	0.9+	1998 10 28	704	0.7-	0.4+	2000 03 14	704	0.0	0.4+
1991 09 08	511	1.3+	0.6+	1998 11 10	704	0.1-	0.4+	2000 03 14	704	0.4-	0.6+

1991 09 14	675	0.7-	1.6-	1998 11 10	704	0.3+	1.3+	2000 03 14	704	0.3+	0.3+
1991 09 14	675	0.3-	1.1-	1998 11 10	704	0.7-	1.1+	2000 03 14	704	0.4+	0.4+
1991 09 17	675	0.1-	0.8-	1998 11 17	699	0.1-	0.6+	2000 04 07	704	0.4-	0.7+
1991 09 17	675	0.4-	1.1-	1998 11 17	699	0.0	0.8+	2000 04 07	704	1.8+	0.0
1995 12 23	691	0.2+	1.1-	1998 11 17	699	0.1-	0.8+	2000 04 07	704	0.2+	0.2-
1995 12 23	691	1.2-	0.0	1998 11 20	704	(0.4-	2.5+)	2000 04 07	704	0.2-	1.0+
1995 12 23	691	0.0	0.7-	1998 11 20	704	0.3+	1.6+	2000 04 07	704	0.6-	1.5+
1995 12 29	691	0.0	1.1-	1998 11 20	704	1.7-	0.4-	2000 04 08	704	0.2-	0.2+
1995 12 29	691	0.3-	1.2-	1998 11 20	704	0.8-	1.5-	2000 04 08	704	1.6-	0.7+
1995 12 29	691	0.1+	1.1-	1998 12 09	704	1.8-	0.5-	2000 04 08	704	0.1+	0.6+
1998 10 02	704	1.0+	0.4-	1998 12 09	704	0.4-	0.0	2000 04 08	704	0.2+	0.7+
1998 10 02	704	1.1+	1.5+	1998 12 09	704	1.1+	0.2-	2000 04 08	704	0.7-	0.0
1998 10 02	704	1.4-	0.1-	1998 12 09	704	0.8-	0.5+	2000 04 10	704	1.1-	0.6-
1998 10 02	704	0.5+	1.1+	1998 12 09	704	0.8+	0.1-	2000 04 10	704	0.6+	0.4-
1998 10 02	704	1.3-	0.4-	1999 01 08	704	0.1+	1.1+	2000 04 10	704	1.1+	0.2+
1998 10 12	699	0.6+	0.9+	1999 01 08	704	1.6-	1.1+	2000 04 10	704	0.5+	0.4+
1998 10 12	699	0.7+	0.2+	1999 01 08	704	0.6-	0.7-	2000 04 10	704	0.9+	0.2-
1998 10 12	699	0.5+	0.5+	1999 01 08	704	0.1+	0.3-				
1998 10 28	704	0.4-	0.1-	2000 03 10	704	1.3+	0.7-				

(14412)* 1991 RU₂

Discovered 1991 Sept. 9 by F. Börngen and L. D. Schmadel at Tautenburg.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	3.38621		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.28670482	ω	271.93487		-0.97083098		-0.22762543
a	2.2777850	Ω	254.91367		+0.23903818		-0.89444151
e	0.0922621	i	4.47441		+0.01865376		-0.38491694
P	3.44	H	14.5	G	0.15	U	2

Residuals in seconds of arc

1991 09 09	033	0.1-	0.3+	1998 10 14	704	0.7-	1.4+	2000 03 09	704	0.6+	0.3+
1991 09 10	033	0.5+	1.5+	1998 10 14	704	0.7-	1.3+	2000 03 12	699	0.3+	0.4+
1991 09 12	033	0.3-	0.2-	1998 10 14	704	(3.1-	1.1+)	2000 03 12	699	0.3+	0.5+
1991 09 12	033	0.3-	0.4+	1998 10 14	704	0.6+	0.7+	2000 03 12	699	0.5+	0.4+
1991 09 13	033	0.1-	0.8-	1998 10 15	704	0.4-	0.7-	2000 03 12	699	0.2+	0.5+
1991 09 14	033	0.2+	0.2+	1998 10 15	704	1.5-	1.2-	2000 03 12	151	1.5-	1.0-
1991 10 03	033	0.2-	0.1+	1998 10 15	704	0.4+	0.6+	2000 03 12	151	(2.5+	0.2-)
1991 10 03	033	1.3+	0.2-	1998 10 15	704	0.3+	0.1+	2000 03 12	151	1.0-	0.6-
1991 10 04	033	0.6-	0.7+	1998 10 15	704	0.1-	0.9+	2000 03 12	151	1.9-	1.2+
1991 10 07	033	1.5-	0.2-	1998 10 28	704	0.9+	1.5-	2000 03 12	151	0.2+	0.6+
1991 10 07	033	0.5+	0.1-	1998 10 28	704	0.5-	0.9+	2000 03 13	704	0.3-	0.6+
1994 06 09	691	0.3-	0.6+	1998 10 28	704	0.1-	0.4-	2000 03 13	704	0.4+	0.1-
1994 06 09	691	0.3-	1.0+	1998 10 28	704	0.8-	1.0+	2000 03 13	704	0.6+	0.5+
1994 06 09	691	0.2-	0.7+	1998 10 28	704	0.8+	1.4+	2000 03 13	704	0.3+	0.3-
1998 09 14	699	1.2+	0.3+	1998 11 23	699	1.1+	0.8-	2000 03 13	704	0.0	0.4-
1998 09 14	699	(1.8-	2.4+)	1998 11 23	699	0.8-	0.6-	2000 04 02	699	0.8-	0.2+
1998 09 14	699	0.6+	1.2+	1998 11 23	699	0.8-	0.6+	2000 04 02	699	0.4-	0.0
1998 09 17	699	0.6-	1.4+	2000 01 05	704	0.2+	0.3+	2000 04 02	699	0.2-	0.0
1998 09 17	699	0.5+	1.4+	2000 01 05	704	0.3+	0.1+	2000 04 02	699	0.3-	0.3+
1998 09 17	699	0.2-	1.2+	2000 01 05	704	1.0-	0.5+	2000 04 07	704	(3.5+	0.2+)
1998 09 26	704	0.8-	0.4-	2000 01 05	704	0.5-	0.6+	2000 04 07	704	(3.5+	0.3+)
1998 09 26	704	0.8+	0.2-	2000 02 02	704	0.1-	0.4+	2000 04 07	704	(3.6+	0.1+)
1998 09 26	704	0.4+	0.6+	2000 02 02	704	0.0	0.1+	2000 04 07	704	1.1+	1.1-
1998 09 26	704	0.4-	0.2-	2000 02 02	704	0.1+	0.6+	2000 04 07	704	1.4+	0.8-
1998 09 26	704	0.4+	0.2+	2000 02 02	704	0.1-	1.5-	2000 04 08	704	0.0	0.1+
1998 09 27	704	0.6-	0.5-	2000 02 02	704	(0.1+	2.8-)	2000 04 08	704	0.1+	0.5+
1998 09 27	704	0.8+	0.1-	2000 02 12	113	0.1+	0.2-	2000 04 08	704	0.6+	0.3+
1998 09 27	704	0.7-	0.9-	2000 02 12	113	0.0	0.0	2000 04 08	704	0.5+	0.4+
1998 09 27	704	0.0	1.2-	2000 02 26	113	0.5-	0.5+	2000 04 08	704	0.3+	0.5+
1998 09 27	704	0.6-	1.5-	2000 02 26	113	0.4-	0.5+	2000 04 10	704	0.4+	0.5-
1998 10 11	699	0.4+	0.7-	2000 03 09	704	0.4+	0.2+	2000 04 10	704	1.0+	0.4+
1998 10 11	699	0.2+	0.7-	2000 03 09	704	0.4+	0.4+	2000 04 10	704	0.3+	0.2+
1998 10 11	699	0.7+	0.0	2000 03 09	704	0.1+	0.2+				
1998 10 14	704	0.2-	0.7+	2000 03 09	704	0.5+	0.3+				

2000 APR. 18

M.P.C. 39823

Id. H. Kaneda (*MPC* 19313)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	131.02607	(2000.0)	P	Q
<i>n</i>	0.28479252	ω 177.17162	+0.74938398	-0.65931893
<i>a</i>	2.2879700	Ω 224.27994	+0.60576950	+0.71987535
<i>e</i>	0.1474666	<i>i</i> 5.01324	+0.26733307	+0.21697471
<i>P</i>	3.46	<i>H</i> 14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1977 08 14	095	1.2+	0.5-	1998 09 27	704	0.2-	0.3+	1998 11 11	704	0.4-	0.6-
1977 08 21	095	2.1-	2.1+	1998 09 27	704	0.4+	0.1+	1998 11 14	699	0.4+	1.4+
1984 09 28	688	(0.1+	3.6-)	1998 09 27	704	0.4+	0.1-	1998 11 14	699	0.9+	0.5+
1984 09 28	688	1.4+	2.3-	1998 09 27	704	1.4-	0.7-	1998 11 14	699	0.1-	0.3+
1984 09 28	688	1.3+	1.6-	1998 10 11	699	0.1-	0.6+	1998 11 21	113	0.3-	0.5-
1984 09 28	688	(0.2-	2.7-)	1998 10 11	699	0.0	0.5+	1998 11 21	113	0.6-	0.3-
1991 09 05	033	0.3-	0.2+	1998 10 11	699	0.1+	0.5+	1998 11 23	699	0.0	0.4+
1991 09 05	033	0.2-	0.2-	1998 10 14	704	0.3+	0.2+	1998 11 23	699	1.0-	0.3-
1991 09 12	033	0.1-	0.2+	1998 10 14	704	0.1+	0.0	1998 11 23	699	1.4-	0.1-
1991 09 12	033	0.1+	0.1+	1998 10 14	704	0.2+	1.0+	1998 12 10	113	0.3+	0.4-
1991 09 13	675	1.2+	0.2+	1998 10 14	704	1.0-	0.1+	1998 12 10	113	0.4-	0.5-
1991 09 13	675	1.2+	0.3-	1998 10 14	704	0.9-	0.4+	1999 01 13	691	0.3-	0.0
1991 09 14	033	1.5-	0.9+	1998 10 15	704	0.4-	0.6-	1999 01 13	691	0.3-	0.2-
1991 09 15	033	0.4-	0.7+	1998 10 15	704	0.9-	1.3+	1999 01 13	691	0.0	0.1-
1991 09 15	033	1.0-	0.7+	1998 10 15	704	0.2-	0.3-	1999 01 14	691	0.1-	0.7-
1991 09 15	675	(4.1+	1.8+)	1998 10 15	704	0.6-	0.5+	1999 01 14	691	0.1-	0.7-
1991 09 15	675	1.2+	0.3+	1998 10 15	704	0.8-	0.5-	1999 01 14	691	0.1-	0.7-
1991 10 02	033	(0.0	2.2-)	1998 10 15	636	1.3-	0.2-	1999 01 17	113	1.1+	0.2-
1991 10 02	033	0.5+	0.9-	1998 10 15	636	(2.3-	0.4-)	1999 01 17	113	1.2+	0.8-
1991 10 03	033	0.3+	0.8-	1998 10 20	636	(2.0-	0.1-)	1999 01 17	113	(2.1+	0.2-)
1991 10 04	033	0.7-	1.1-	1998 10 20	636	0.6-	0.5-	2000 03 09	704	0.4+	0.3+
1991 10 04	033	0.1-	0.3-	1998 10 20	113	1.2-	1.2-	2000 03 09	704	0.1-	0.2-
1991 10 05	033	0.4-	0.1-	1998 10 20	113	1.3-	1.4-	2000 03 09	704	0.1-	0.8+
1991 10 05	033	0.0	0.2-	1998 10 21	910	1.2+	0.7+	2000 03 27	699	0.4-	0.6+
1991 10 09	033	0.1-	0.5+	1998 10 21	910	1.2+	0.8+	2000 03 27	699	0.5-	0.3+
1991 10 09	033	0.9-	0.5+	1998 10 22	910	1.3+	0.5+	2000 03 27	699	0.4-	0.3+
1995 12 28	611	0.6-	0.8-	1998 10 28	704	0.2-	1.4+	2000 03 27	699	0.6-	0.1+
1995 12 28	611	0.5+	1.1+	1998 10 28	704	0.6-	0.4+	2000 04 02	699	0.5-	0.4-
1998 08 20	113	0.1-	0.4+	1998 10 28	704	0.2+	0.9+	2000 04 02	699	0.5+	0.5-
1998 08 20	113	0.1-	0.1+	1998 10 28	704	0.9+	0.6+	2000 04 02	699	0.2-	0.3-
1998 08 28	704	0.1+	1.2-	1998 10 28	691	0.0	0.4-	2000 04 02	699	0.6+	0.6-
1998 08 28	704	0.7-	0.4-	1998 10 28	691	0.3+	0.2-	2000 04 07	704	0.2+	0.3+
1998 08 28	704	0.6+	0.2+	1998 10 28	691	0.5+	0.2-	2000 04 07	704	0.5-	0.9+
1998 08 28	704	1.2+	0.1+	1998 10 29	704	0.1+	0.3-	2000 04 07	704	0.4+	0.8+
1998 09 13	113	0.0	0.2+	1998 10 29	704	0.8-	0.7+	2000 04 07	704	0.1+	0.0
1998 09 14	113	0.2-	0.2+	1998 10 29	704	0.5-	0.5+	2000 04 07	704	0.3-	0.5+
1998 09 21	611	0.1-	0.1+	1998 10 29	704	0.6+	0.7+	2000 04 08	704	0.0	0.1+
1998 09 21	611	0.1-	0.1-	1998 10 29	704	1.2+	0.9-	2000 04 08	704	0.6+	0.8+
1998 09 24	113	0.1+	0.3+	1998 11 10	704	0.2+	0.1+	2000 04 08	704	1.1+	0.3-
1998 09 24	113	0.0	0.5+	1998 11 10	704	0.8+	0.2-	2000 04 10	704	0.0	0.7+
1998 09 26	704	1.3+	1.4+	1998 11 10	704	0.3-	0.9-	2000 04 10	704	0.6+	0.4+
1998 09 26	704	0.7+	1.1+	1998 11 10	704	0.5-	0.3-	2000 04 10	704	0.5+	0.3+
1998 09 26	704	0.2-	1.3+	1998 11 11	704	0.1+	0.4-	2000 04 10	704	0.6+	1.1+
1998 09 26	704	1.0+	0.2-	1998 11 11	704	0.1+	1.4-	2000 04 10	704	0.2+	0.2+
1998 09 26	704	0.5-	0.1-	1998 11 11	704	0.7+	0.4-				
1998 09 27	704	0.3+	1.5+	1998 11 11	704	0.0	1.6+				

(14414)* 1991 RF₆ = 1981 UK₁₆ = 1997 JT₁₈

Discovered 1991 Sept. 13 by H. E. Holt at Palomar.

Id. T. B. Spahr (*MPC* 30656), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	183.96988	(2000.0)	P	Q
<i>n</i>	0.29344443	ω 250.54544	+0.99749609	-0.05224133
<i>a</i>	2.2427738	Ω 112.42563	+0.06645754	+0.92292582
<i>e</i>	0.2089070	<i>i</i> 2.95603	-0.02418575	+0.38141681
<i>P</i>	3.36	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1981 10 24	095	1.0+	0.9-	1998 12 15	704	0.4+	0.4-	2000 04 04	704	0.5+	0.5+
1991 09 12	095	0.9+	0.3+	1998 12 15	704	1.1+	0.4-	2000 04 04	704	0.1+	0.1+
1991 09 12	095	1.4-	0.4-	1998 12 15	704	0.1-	0.3-	2000 04 04	704	0.1-	0.9+
1991 09 13	675	0.7-	0.4-	1998 12 15	704	0.6+	0.0	2000 04 04	704	0.4-	0.6+
1991 09 13	675	0.1-	0.3-	1998 12 16	704	0.7+	1.1-	2000 04 06	699	0.3-	0.4+
1991 09 16	675	0.7-	1.2+	1998 12 16	704	0.7+	0.6-	2000 04 06	699	0.3-	0.3+
1991 09 16	675	0.0	1.1-	1998 12 16	704	0.6+	0.7-	2000 04 06	699	0.5-	0.0
1991 10 01	691	0.6-	1.3+	1998 12 16	704	0.8+	1.3+	2000 04 06	699	0.4-	0.3+
1991 10 01	691	0.5-	1.2+	1998 12 16	704	0.3+	1.5+	2000 04 07	699	0.3-	0.5+
1991 10 01	691	0.5-	0.8+	1998 12 22	704	0.7-	0.9-	2000 04 07	699	0.4-	1.9-
1991 10 02	675	0.2+	0.1-	1998 12 22	704	(0.3-	2.7+)	2000 04 07	699	0.6-	0.5+
1991 10 02	675	(2.2-	0.2-)	1998 12 22	704	0.0	0.3+	2000 04 07	699	0.0	0.2+
1991 10 07	675	0.6+	0.6+	1998 12 22	704	0.6-	0.1-	2000 04 08	704	0.6-	0.0
1991 10 07	675	0.5-	0.2-	1998 12 22	704	0.3-	0.7+	2000 04 08	704	0.1-	1.0+
1991 10 08	675	0.5-	0.4+	1999 01 11	704	1.0+	1.4-	2000 04 08	704	0.3+	0.8+
1997 05 07	704	1.3+	1.3-	1999 01 11	704	0.9-	1.0+	2000 04 08	704	0.3-	0.3+
1997 05 07	704	(2.2+	2.0-)	1999 01 11	704	1.4-	1.8-	2000 04 08	704	0.3-	0.2+
1997 05 07	704	0.7+	0.7-	1999 01 11	704	(2.2-	0.5-)	2000 04 08	704	0.5+	0.2-
1997 05 07	704	1.1+	1.1-	2000 03 08	704	0.1-	0.0	2000 04 08	704	1.3+	0.7+
1997 05 07	704	1.0+	1.5-	2000 03 08	704	0.8+	0.5-	2000 04 08	704	0.7-	0.1+
1998 09 29	704	1.1-	0.9+	2000 03 08	704	0.4+	0.3+	2000 04 08	704	0.8-	0.1+
1998 09 29	704	0.7+	0.6+	2000 03 08	704	0.1+	0.8+	2000 04 08	704	0.3+	0.5+
1998 09 29	704	0.2+	0.1+	2000 03 29	704	0.6+	0.8+	2000 04 10	704	0.6-	0.4+
1998 09 29	704	0.9+	0.1-	2000 03 29	704	0.3-	1.5+	2000 04 10	704	0.5+	0.3+
1998 12 01	758	0.4+	0.1+	2000 03 29	704	0.9+	1.6+	2000 04 10	704	0.1-	0.5+
1998 12 01	758	0.1-	0.5+	2000 03 29	704	(2.2+	0.2-)	2000 04 10	704	0.1-	0.5-
1998 12 01	758	0.3+	0.9+	2000 03 29	704	(0.4+	2.6+)	2000 04 10	704	1.2-	0.1+
1998 12 01	689	0.4-	0.1-	2000 04 02	699	0.1-	0.2+	2000 04 10	704	0.9+	0.1-
1998 12 02	758	0.5-	0.3+	2000 04 02	699	0.2-	0.1+	2000 04 10	704	0.2-	0.1-
1998 12 02	758	0.0	0.7+	2000 04 02	699	0.4-	0.1-	2000 04 10	704	0.4+	1.1-
1998 12 09	689	0.2-	0.1-	2000 04 02	699	0.1-	0.6+	2000 04 10	704	0.6-	0.2+
1998 12 15	704	0.2+	0.7-	2000 04 04	704	0.5+	0.0				

(14415)* 1991 RQ₇ = 1986 TN₉

Discovered 1991 Sept. 13 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (*MPC* 19314)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	256.35248	(2000.0)	P	Q
<i>n</i>	0.19120598	ω 6.64046	+0.67388337	+0.72610514
<i>a</i>	2.9840200	Ω 305.83103	-0.68538337	+0.54532330
<i>e</i>	0.2804716	<i>i</i> 9.69799	-0.27591817	+0.41880047
<i>P</i>	5.15	<i>H</i> 12.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1986 10 02	095	1.7-	1.3+	1996 08 22	072	1.1-	0.4+	2000 03 09	704	0.2-	0.3+
1986 10 08	095	(5.0-	1.2+)	1996 08 24	399	0.5-	0.4-	2000 03 09	704	0.1-	0.9+
1991 09 13	399	0.0	0.2+	1996 08 24	399	1.7-	0.2+	2000 03 12	699	0.2+	0.9+
1991 09 13	399	1.0-	0.8+	1996 08 25	399	0.7-	0.2+	2000 03 12	699	0.3+	0.2+
1991 09 15	399	0.0	1.3+	1996 08 25	399	(2.6-	0.5-)	2000 03 12	699	0.1+	1.0+
1991 09 30	399	0.8+	1.0+	1996 09 07	399	0.9-	1.3-	2000 03 12	699	0.3+	0.8+
1991 10 18	399	0.2+	0.2-	1996 09 07	399	(2.4-	0.3-)	2000 03 13	704	0.7-	0.7+

(14416)* 1991 RU₇ = 1977 RS₁₈

Discovered 1991 Sept. 8 at the Oak Ridge Observatory.

Id. T. Kobayashi (*MPC* 24105)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 114.65087		(2000.0)		P		Q	
<i>n</i>	0.28113988	ω	222.80245	+0.75131091	−0.65994111		
<i>a</i>	2.3077446	Ω	178.48270	+0.63276581	+0.71902018		
<i>e</i>	0.2103923	<i>i</i>	6.73725	+0.18745494	+0.21791675		
<i>P</i>	3.51	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 09 09	675	1.0+	0.0	1998 08 23	704	1.5−	0.7−	1998 09 27	704	1.2+	0.1+
1977 09 10	675	0.7+	0.2+	1998 08 23	704	0.1+	0.1+	1998 09 27	704	0.2+	1.1+
1991 09 08	801	0.4−	1.1−	1998 08 23	704	1.1−	0.4−	1998 09 27	704	0.8−	1.2+
1991 09 08	801	(0.6−	2.1−)	1998 08 23	704	(1.7−	2.1−)	2000 03 10	704	0.1+	0.7+
1991 09 09	801	0.3−	0.4−	1998 09 14	704	0.7+	0.2−	2000 03 10	704	0.6+	0.1+
1991 09 09	801	0.4−	0.4−	1998 09 14	704	0.2+	0.2+	2000 03 10	704	0.4+	0.8+
1991 09 12	801	0.1+	0.0	1998 09 14	704	0.2+	0.4−	2000 03 10	704	0.9+	0.9+
1991 09 12	801	0.2−	0.1−	1998 09 14	704	0.0	0.2+	2000 03 11	704	1.0−	0.1−
1991 09 13	675	0.4−	0.9−	1998 09 18	704	(0.4−	2.2−)	2000 03 11	704	0.0	0.2+
1991 09 13	675	0.2−	1.0−	1998 09 18	704	(2.8−	1.5+)	2000 03 11	704	0.5+	0.0
1991 09 16	675	0.9−	1.0−	1998 09 18	704	0.3−	0.1−	2000 03 11	704	0.5−	0.4−
1991 09 16	675	0.9−	0.2−	1998 09 18	704	0.4+	0.8+	2000 04 05	704	0.0	0.5+
1997 05 07	704	1.1+	0.3+	1998 09 18	704	1.3+	1.1+	2000 04 05	704	0.0	0.3+
1997 05 07	704	0.5−	0.1+	1998 09 21	610	0.4+	0.4−	2000 04 05	704	0.2+	0.5+
1997 05 07	704	0.1+	0.1+	1998 09 21	610	1.7+	1.2+	2000 04 05	704	0.3+	0.2−
1997 05 07	704	0.1−	0.6−	1998 09 21	610	(2.8+	2.9+)	2000 04 05	704	0.5+	0.3+
1997 05 07	704	0.9−	0.4+	1998 09 25	704	0.7−	0.7−	2000 04 06	704	0.0	0.7−
1998 08 17	704	0.0	0.1−	1998 09 25	704	0.1−	0.3+	2000 04 06	704	0.3+	0.2−
1998 08 17	704	0.2+	0.1+	1998 09 25	704	0.7−	0.9+	2000 04 06	704	0.3−	0.0
1998 08 17	704	0.2+	0.8−	1998 09 25	704	0.9−	1.3+	2000 04 07	699	1.0−	0.1+
1998 08 17	704	1.0+	0.7+	1998 09 25	704	1.5−	1.3+	2000 04 07	699	0.2+	0.6−
1998 08 17	704	0.0	0.4+	1998 09 27	704	0.1+	0.1+	2000 04 07	699	0.1−	0.4+
1998 08 23	704	0.3+	0.5−	1998 09 27	704	0.9+	0.9+	2000 04 07	699	0.3+	0.7+

(14417)* 1991 RN₁₃ = 1991 SO₁ = 1994 NB₁₂

Discovered 1991 Sept. 13 by H. E. Holt at Palomar.

Id. S. Nakano (d, *MPC* 19822), G. V. Williams (*MPC* 26901)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 237.30003		(2000.0)		P		Q	
<i>n</i>	0.30119195	ω	43.40958	+0.73209659	+0.67718342		
<i>a</i>	2.2041466	Ω	273.81139	−0.64348218	+0.65189619		
<i>e</i>	0.1947862	<i>i</i>	4.24587	−0.22352910	+0.34125352		
<i>P</i>	3.27	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 13	675	1.1+	0.1−	1997 05 03	104	0.4+	1.3−	2000 03 09	704	0.1+	0.3+
1991 09 13	675	1.1+	0.3−	1998 12 14	704	0.4+	1.3−	2000 03 09	704	0.4+	1.3+
1991 09 15	675	0.3+	0.3−	1998 12 14	704	0.8−	1.7−	2000 03 09	704	0.0	0.1−
1991 09 15	675	0.1−	0.4+	1998 12 14	704	(2.3−	0.3+)	2000 03 12	699	0.0	0.1−
1991 09 30	400	0.7−	0.3+	1998 12 14	704	0.7−	0.5+	2000 03 12	699	0.6−	0.5+
1991 09 30	400	1.0+	1.1+	1998 12 14	704	0.4−	0.1+	2000 03 12	699	0.6−	0.1+
1991 10 08	400	1.6−	1.7+	1998 12 16	704	0.2+	0.7−	2000 03 12	699	0.5−	0.9+
1991 10 08	400	0.6+	0.6+	1998 12 16	704	0.5+	0.1+	2000 03 13	704	0.1+	1.0+
1991 10 09	691	1.2−	0.5−	1998 12 16	704	0.5+	1.4+	2000 03 13	704	0.3−	0.4+
1991 10 09	691	0.9−	0.1+	1998 12 16	704	(2.4−	2.4+)	2000 03 13	704	0.0	0.6+
1991 10 09	691	0.9−	0.2−	1998 12 17	704	0.5+	0.5−	2000 03 13	704	0.4+	0.8+
1994 07 08	809	1.4−	0.3−	1998 12 17	704	0.1+	0.7−	2000 04 07	704	1.9−	1.5−
1994 07 08	809	0.0	0.1−	1998 12 17	704	0.3−	1.0−	2000 04 07	699	0.7+	0.2−
1994 07 08	809	1.2+	0.4−	1998 12 17	704	0.3−	1.2−	2000 04 07	704	0.9+	1.6−
1994 07 09	809	0.7−	0.6−	1998 12 17	704	0.1+	1.1−	2000 04 07	699	0.7+	0.4+
1994 07 09	809	0.3+	0.6−	2000 03 03	703	0.5−	0.4+	2000 04 07	704	(2.4+	1.4−)
1994 07 09	809	1.2+	0.6−	2000 03 03	703	0.2−	0.5+	2000 04 07	699	0.6+	0.3+
1997 05 03	104	1.0−	0.0	2000 03 03	703	0.6+	0.3−	2000 04 07	704	1.5+	1.0−
1997 05 03	104	0.3−	0.8−	2000 03 03	703	0.2+	1.2+	2000 04 07	699	0.1+	0.4+

(14418)* 1991 RU₁₆ = 1981 UG₂ = 1998 TB₂₉

Discovered 1991 Sept. 15 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33228)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 179.74036		(2000.0)		P		Q	
<i>n</i>	0.28898438	ω	315.65894	+0.97260311	+0.22495167		
<i>a</i>	2.2657907	Ω	31.47994	−0.16953509	+0.85897165		
<i>e</i>	0.1316759	<i>i</i>	6.44880	−0.15906304	+0.45996136		
<i>P</i>	3.41	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 30	381	0.2−	1.3−	1998 10 19	699	0.1+	0.7+	1998 11 11	704	0.1+	0.4+
1981 10 30	381	1.3+	1.6−	1998 10 20	691	1.2−	0.1−	1998 11 11	704	0.4+	0.2−
1991 09 15	675	(0.8+	2.0−)	1998 10 20	691	1.4−	0.0	1998 11 11	704	0.3−	0.3+
1991 09 15	675	0.0	0.5−	1998 10 20	691	0.9−	0.1+	1998 11 11	704	0.3+	0.2+
1991 09 17	675	0.5−	1.3−	1998 11 08	104	0.3+	0.7+	1998 11 16	566	0.0	0.3+
1991 09 17	675	0.2+	0.4+	1998 11 08	104	1.1+	0.1+	1998 11 16	566	0.2+	0.0
1991 09 30	691	0.6−	0.4+	1998 11 08	104	1.1+	0.2−	1998 11 16	566	0.1−	0.2−
1991 09 30	691	0.2−	1.0+	1998 11 08	104	1.8+	0.4−	2000 02 29	704	0.1−	0.5+
1991 09 30	691	0.4+	0.9+	1998 11 08	104	1.2+	0.5−	2000 02 29	704	0.1+	0.1+
1998 10 10	699	1.4−	0.2+	1998 11 09	104	0.3−	0.0	2000 02 29	704	1.2+	0.3+
1998 10 10	699	1.5+	0.5−	1998 11 09	104	0.2−	0.1−	2000 03 12	704	(1.3−	2.5−)
1998 10 10	699	0.2+	1.1+	1998 11 09	104	0.6−	0.2−	2000 03 12	704	0.6−	0.4−
1998 10 15	691	1.5−	0.2+	1998 11 10	704	0.2+	0.4−	2000 03 12	704	0.6+	1.4+
1998 10 15	691	1.3−	0.2+	1998 11 10	704	0.4+	1.0+	2000 04 03	704	0.3+	0.7−
1998 10 15	691	1.1−	0.1−	1998 11 10	704	0.4−	0.4−	2000 04 03	704	0.7−	0.5−
1998 10 19	699	0.1+	0.2+	1998 11 10	704	0.2−	0.7−	2000 04 03	704	0.0	1.1+
1998 10 19	699	0.2+	0.5+	1998 11 10	704	0.2+	0.8+				

(14419)* 1991 RK₂₃ = 1993 CW = 1998 XW₈₃

Discovered 1991 Sept. 15 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 33680)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 235.19485		(2000.0)		P		Q	
<i>n</i>	0.30164317	ω	230.84169	+0.79597481	+0.60264019		
<i>a</i>	2.2019480	Ω	92.02530	−0.53630330	+0.74574274		
<i>e</i>	0.0964744	<i>i</i>	3.26962	−0.28071848	+0.28406438		
<i>P</i>	3.27	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 15	675	0.0	0.4−	1995 11 04	327	0.8+	0.8−	2000 04 04	699	0.1+	0.2−
1991 09 15	675	1.5−	0.0	1998 12 01	327	0.1−	0.1−	2000 04 04	699	0.0	0.1−
1991 09 17	691	0.3+	0.4+	1998 12 01	327	0.3+	0.1−	2000 04 04	699	0.2−	0.1+
1991 09 17	691	0.1+	0.4+	1998 12 01	327	0.0	0.1+	2000 04 07	704	0.0	0.4+
1991 09 17	691	0.0	0.1+	1998 12 15	704	(2.3−	2.6+)	2000 04 07	704	0.2+	0.5+
1991 09 17	675	0.1+	0.9−	1998 12 15	704	0.7−	0.2−	2000 04 07	704	0.1+	0.0
1991 09 17	675	0.1+	0.8−	1998 12 15	704	0.6−	1.1+	2000 04 07	704	0.6−	0.5+
1991 10 02	691	0.0	1.4+	1998 12 22	704	0.1+	0.3+	2000 04 07	704	0.2−	0.4+
1991 10 02	691	0.0	1.3+	1998 12 22	704	0.2−	0.3+	2000 04 08	704	0.0	0.7+
1991 10 02	691	0.0	1.5+	1998 12 22	704	0.3−	0.4+	2000 04 08	704	0.5+	1.2+
1993 02 12	372	1.2−	0.8−	1998 12 22	704	0.1+	0.3+	2000 04 08	704	0.6+	0.7+
1995 10 21	327	0.2+	0.1−	2000 03 14	703	1.0+	0.6+	2000 04 08	704	0.4+	0.8+
1995 10 21	327	0.1+	0.5+	2000 03 14	703	0.3−	0.4+	2000 04 08	704	0.4+	1.6+
1995 10 21	327	0.0	0.1+	2000 03 14	703	0.0	0.4+	2000 04 13	608	0.2+	0.9−
1995 11 04	327	0.9+	0.1+	2000 03 14	703	1.0−	0.1−	2000 04 13	608	0.6+	1.1−
1995 11 04	327	0.6+	0.0	2000 04 04	699	0.1+	0.1−	2000 04 13	608	0.1+	1.1−

2000 APR. 18

M.P.C. 39825

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	225.74861		(2000.0)		P		Q				
<i>n</i>	0.18865174	ω	218.72063		+0.93795194		+0.30564027				
<i>a</i>	3.0108943	Ω	122.72516		−0.24943610		+0.92281401				
<i>e</i>	0.1155940	<i>i</i>	11.22743		−0.24088959		+0.23451723				
<i>P</i>	5.22	<i>H</i>	12.2		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1991 09 15	675	0.2+	0.3+	1999 01 19	704	1.0−	0.7+	2000 04 05	704	0.5+	0.4−
1991 09 15	675	0.1+	0.2+	1999 01 19	704	1.2+	1.4+	2000 04 05	704	0.2+	0.1−
1991 09 30	413	0.2−	0.6−	1999 01 19	704	(0.5−	2.3+)	2000 04 05	704	0.4+	0.3−
1991 10 01	413	0.4+	0.4−	1999 02 10	704	0.2+	0.0	2000 04 05	704	0.4+	0.2−
1991 10 09	413	0.0	0.6−	1999 02 10	704	1.3+	0.3−	2000 04 05	704	0.6+	0.3+
1991 10 09	413	0.5−	0.4−	1999 02 10	704	0.1−	0.3−	2000 04 08	704	0.6+	0.1−
1991 10 12	413	0.3+	0.2−	1999 02 10	704	0.7+	1.1−	2000 04 08	704	0.4−	0.2+
1997 11 30	566	0.4−	0.9+	1999 02 10	704	0.6−	0.4−	2000 04 08	704	0.2−	0.0
1997 11 30	566	0.3−	0.9+	1999 02 13	704	0.6−	1.2−	2000 04 09	699	0.9−	0.8+
1997 11 30	566	0.3−	1.1+	1999 02 13	704	0.3−	1.3−	2000 04 09	699	0.9−	0.5−
1997 12 29	566	0.2+	0.2−	1999 02 13	704	1.1−	0.9−	2000 04 09	699	1.5−	0.5+
1997 12 29	566	0.0	0.3−	1999 02 13	704	0.5−	0.7−	2000 04 09	699	0.8−	0.7+
1997 12 29	566	0.1+	0.3−	1999 02 13	704	1.2−	0.8−	2000 04 13	704	0.2+	0.1−
1998 12 26	910	0.7+	0.7+	2000 03 08	704	0.6+	0.7−	2000 04 13	704	0.1+	0.3−
1998 12 26	910	0.8+	0.7+	2000 03 08	704	0.4+	0.5+	2000 04 13	704	0.2+	0.4−
1998 12 26	910	0.7+	1.0+	2000 03 08	704	1.9+	0.9+	2000 04 13	704	(2.5+	0.4+)
1999 01 19	704	0.1+	0.5−	2000 03 08	704	0.2+	0.7+	2000 04 13	704	0.4−	0.1−

(14421)* 1991 SA₁ = 1999 CV₆₂

Discovered 1991 Sept. 30 by R. H. McNaught at Siding Spring.

Id. G. V. Williams (*MPC* 33932)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.87711		(2000.0)		P		Q				
<i>n</i>	0.18593883	ω	197.92816		+0.94122433		+0.29840969				
<i>a</i>	3.0401101	Ω	143.48141		-0.26810350		+0.94499797				
<i>e</i>	0.1597766	<i>i</i>	15.42385		-0.20546842		+0.13390476				
<i>P</i>	5.30	<i>H</i>	13.2		<i>G</i>	0.15	<i>U</i>	2			
Residuals in seconds of arc											
1991 08 07	675	0.3+	0.3+	1996 09 16	566	0.1-	0.0	2000 03 12	699	1.3-	0.9+
1991 08 07	675	0.3-	0.4-	1999 02 06	120	0.5+	0.4+	2000 03 12	699	1.5-	1.2+
1991 09 05	413	0.4+	0.6+	1999 02 06	120	1.8-	0.6-	2000 03 29	704	0.6+	0.7+
1991 09 05	413	(1.3+	2.1+)	1999 02 12	704	0.6+	0.1-	2000 03 29	704	1.1+	0.7-
1991 09 14	675	0.4+	0.9+	1999 02 12	704	0.9-	1.2+	2000 03 29	704	0.1-	0.3-
1991 09 14	675	0.4-	0.3-	1999 02 12	704	0.8+	0.5-	2000 03 29	704	1.0+	0.3-
1991 09 30	413	1.0+	0.6+	1999 02 12	704	0.1+	1.6+	2000 03 29	704	0.8+	0.5+
1991 10 01	413	0.7-	0.6+	1999 02 12	704	0.9-	0.6-	2000 04 05	704	0.2+	0.1-
1991 10 02	413	0.5-	0.1+	1999 02 16	704	0.6+	0.9-	2000 04 05	704	0.3+	0.2+
1991 10 05	413	0.3-	0.4+	1999 02 16	704	(1.0-	2.1-)	2000 04 05	704	0.1-	0.3+
1991 10 09	413	0.9-	0.7+	1999 02 16	704	0.6+	0.6+	2000 04 05	704	0.2+	0.3+
1991 10 12	413	0.3+	1.0+	1999 02 16	704	1.0+	1.3+	2000 04 05	704	0.3-	0.4+
1996 09 16	566	0.3+	0.0	2000 03 12	699	0.1+	0.0				
1996 09 16	566	0.1-	0.1+	2000 03 12	699	0.8-	0.5+				

(14422)* 1991 SK₂

Discovered 1991 Sept. 16 by H. E. Holt at Palomar.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.67587		(2000.0)		P		Q			
<i>n</i>	0.18490763		ω	351.93385	+0.77591867		+0.62507230			
<i>a</i>	3.0514024		Ω	328.86486	−0.56920865		+0.63560341			
<i>e</i>	0.1201942		<i>i</i>	9.46838	−0.27194067		+0.45309263			
<i>P</i>	5.33		<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1		
Residuals in seconds of arc										
1991 08 08	675	0.1−	0.3−	1998 12 27	411	0.1−	0.9+	1999 02 10	704	0.6−
1991 08 08	675	0.1+	1.2−	1998 12 28	411	1.1+	0.9+	2000 03 12	699	0.0
1991 09 12	691	0.9−	0.0	1998 12 28	411	0.5−	0.6+	2000 03 12	699	0.0

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	115.39935		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17623696	ω	62.84171	+0.14931581	-0.98076560
<i>a</i>	3.1506830	Ω	19.81528	+0.72394523	+0.02183626
<i>e</i>	0.1162930	<i>i</i>	21.76776	+0.67350434	+0.19396393
<i>P</i>	5.59	<i>H</i>	12.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1983 03 11	381	1.5+	0.8+	1992 12 01	675	0.4-	0.4-	1999 03 15	704	0.5+	0.5+
1983 03 11	381	0.2+	0.9+	1992 12 01	675	0.7+	1.8-	1999 03 15	704	0.8+	0.7+
1991 09 12	675	0.2-	1.5+	1997 11 26	566	(2.2+	0.7-)	1999 03 15	704	0.2-	0.3+
1991 09 12	675	1.2-	1.4+	1997 11 26	566	1.5+	0.5-	1999 05 08	704	0.1-	0.0
1991 09 17	675	0.1+	0.2-	1997 11 26	566	(2.8+	1.3-)	1999 05 08	704	0.4+	1.1-
1991 09 17	675	1.0+	0.6-	1999 02 11	704	0.2+	1.4-	1999 05 08	704	0.7+	0.3+
1991 09 30	691	1.1-	0.0	1999 02 11	704	0.4-	0.3-	1999 05 08	704	1.0+	0.7-
1991 09 30	691	1.1-	0.0	1999 02 11	704	0.2-	0.3-	1999 05 08	704	1.5+	1.5+
1991 10 02	675	0.2-	0.2-	1999 02 11	704	0.0	0.0	2000 03 14	704	0.7-	0.3-
1991 10 02	675	1.3+	1.1-	1999 02 13	716	0.2-	0.3-	2000 03 14	704	0.2-	0.8-
1991 10 03	675	0.1+	0.2+	1999 02 13	716	0.1-	0.0	2000 03 14	704	1.3-	1.3-
1991 10 03	675	0.0	0.1+	1999 02 14	716	1.0-	0.1-	2000 03 14	704	0.1-	1.1-
1991 10 07	675	0.7+	0.7+	1999 02 14	716	0.2-	0.2-	2000 03 14	704	0.1-	1.0-
1991 10 07	675	0.2-	0.6-	1999 02 18	704	0.6-	1.4+	2000 04 06	704	0.5-	0.4+
1991 10 08	675	0.0	1.0-	1999 02 18	704	1.2-	1.0+	2000 04 06	704	0.3-	0.2-
1991 10 14	691	0.2-	0.2+	1999 02 18	704	0.1-	0.5+	2000 04 06	704	0.6-	0.5+
1991 10 14	691	0.3-	0.2+	1999 02 18	704	0.4-	1.4+	2000 04 06	704	0.5+	0.3-
1991 10 14	691	0.5-	0.3+	1999 03 15	704	1.4+	0.1+	2000 04 06	704	0.5+	0.3-

(14425)* 1991 TJ₂ = 1949 PB = 1952 KD₁ = 1968 KL = 1975 TS₅
= 1975 VL₇

Discovered 1991 Oct. 13 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. S. Nakano (*MPC* 19510)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	273.71882		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.30696574	ω	255.53717	+0.62873083	+0.77332115
<i>a</i>	2.1764204	Ω	53.71602	-0.66872324	+0.59130009
<i>e</i>	0.2265938	<i>i</i>	5.81580	-0.39687122	+0.22877632
<i>P</i>	3.21	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1949 08 15	078	(62.6-	19.3+)	Y	1994 08 08	801	0.0	0.1+	2000 02 10	704	0.1+	1.5+
1952 05 25	711	(3.5-	5.5-)	Y	1994 08 08	801	0.2+	0.2+	2000 02 10	704	0.2+	0.3+
1968 05 22	095	0.1+	0.5+		1996 02 09	689	1.1-	0.5+	2000 02 10	704	0.5+	0.4+
1975 10 14	095	(2.0-	4.6-)		1997 05 25	689	1.1-	0.3-	2000 04 07	704	0.4+	0.2+
1975 11 06	095	(2.0-	3.2-)		1997 05 26	689	1.6-	0.9-	2000 04 07	704	0.1+	0.8+
1991 10 13	408	1.2-	0.3-		1999 01 16	704	0.3-	0.2+	2000 04 07	704	0.2+	0.4+
1991 10 13	408	(2.4-	0.3-)		1999 01 16	704	0.6-	0.8+	2000 04 07	704	0.0	1.1+
1991 10 15	408	(2.4-	0.7+)		1999 01 16	704	0.8-	0.6-	2000 04 07	704	0.2-	1.0+
1991 10 15	408	0.3+	1.8+		1999 01 16	704	0.2-	0.4+	2000 04 07	120	0.6+	0.9-
1991 11 03	408	0.3+	1.6+		1999 01 17	715	1.0+	0.4+	2000 04 08	120	0.1+	0.5-
1991 11 03	408	1.4+	1.3-		1999 01 17	715	0.1-	0.4+	2000 04 08	120	0.4+	0.6-
1991 11 04	408	1.2-	0.1+		1999 01 19	704	0.3-	0.2-	2000 04 08	704	0.1+	0.0
1991 11 04	408	1.6+	0.7+		1999 01 19	704	0.0	0.0	2000 04 08	704	0.1-	0.7-
1994 07 12	801	1.5-	0.5+		1999 01 19	704	0.5-	0.1+	2000 04 08	704	0.6-	0.5-
1994 07 12	801	0.7-	0.7+		1999 01 19	704	(2.3-	2.5-)	2000 04 16	608	1.1+	0.5-
1994 07 13	801	0.8+	0.1+		2000 02 10	704	0.3+	1.6+	2000 04 16	608	1.4+	0.5-
1994 07 13	801	0.6-	1.0+		2000 02 10	704	0.6-	0.3+	2000 04 16	608	1.2+	0.2-

(14426)* 1991 UO₂ = 1984 WU

Discovered 1991 Oct. 29 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 19513)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	125.51978		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27811212	ω	290.09447	+0.72574079	-0.68375658
<i>a</i>	2.3244637	Ω	113.12836	+0.65804369	+0.65769345
<i>e</i>	0.1970702	<i>i</i>	4.74097	+0.20069582	+0.31609534
<i>P</i>	3.54	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1984 11 20	688	(1.6+ 3.8-)	1998 09 24	699	0.7- 1.1+	1998 12 08	704	0.9+ 0.6-
1984 11 20	688	(0.3+ 4.2-)	1998 09 24	699	0.2- 1.3+	1998 12 08	704	0.1+ 0.6+
1984 11 27	688	(0.1+ 2.8-)	1998 09 26	704	0.4+ 0.3+	1998 12 08	704	0.5+ 0.5+
1984 11 27	688	(0.4+ 2.7-)	1998 09 26	704	0.2+ 0.7-	1999 01 07	704	(3.0- 0.7+)
1991 10 29	400	0.4- 0.1+	1998 09 26	704	0.2+ 0.7-	1999 01 07	704	0.8- 0.0
1991 10 29	400	0.6- 0.5-	1998 09 26	704	0.5+ 0.6-	1999 01 07	704	0.9- 1.4+
1991 10 31	400	0.1- 0.6+	1998 09 26	704	(2.5- 0.8-)	1999 01 07	704	0.5- 0.0
1991 10 31	400	1.3+ 0.8+	1998 09 27	704	0.5- 0.9+	1999 02 04	704	0.3- 0.1+
1991 11 04	894	0.6+ 0.7-	1998 09 27	704	0.2+ 0.3-	1999 02 04	704	0.0 0.0
1991 11 04	894	1.3- 2.1-	1998 09 27	704	1.2- 1.2+	1999 02 04	704	0.7+ 1.0+
1991 11 10	894	0.5+ 0.1+	1998 09 27	704	0.3- 0.4+	1999 02 04	704	0.3- 0.3-
1991 11 10	894	0.6+ 0.0	1998 09 27	704	0.8- 0.9-	1999 02 04	704	0.3- 0.7+
1991 11 26	400	0.3- 0.1+	1998 10 09	689	0.4+ 0.2+	2000 03 01	703	0.2- 0.4+
1991 11 26	400	1.4- 0.5-	1998 10 14	704	0.5- 0.3+	2000 03 01	703	0.4+ 0.7+
1991 12 02	400	(1.5+ 3.8+)	1998 10 14	704	0.2- 0.1+	2000 03 01	703	0.3- 0.4+
1991 12 02	400	1.4+ 1.2+	1998 10 14	704	0.8+ 0.5+	2000 03 01	703	(2.8- 2.4+)
1996 01 25	689	(38.9+ 14.5-)	1998 10 14	704	0.2- 0.4-	2000 03 08	704	0.5+ 0.0
1997 06 05	691	0.6- 1.4+	1998 10 14	704	0.2+ 0.7-	2000 03 08	704	0.1- 0.1+
1997 06 05	691	0.2- 0.6+	1998 10 15	704	0.1- 0.8+	2000 03 08	704	0.3+ 0.2+
1997 06 05	691	0.6- 0.6+	1998 10 15	704	0.2- 0.2+	2000 03 08	704	0.2+ 0.1+
1997 06 08	809	1.4+ 1.1+	1998 10 15	704	1.2- 0.1+	2000 03 08	704	0.2- 0.0
1997 06 08	809	0.9+ 0.9+	1998 10 15	704	0.7- 0.4-	2000 03 29	704	0.9+ 0.9+
1997 06 08	809	1.4+ 0.5+	1998 10 15	704	0.5- 0.4-	2000 03 29	704	0.3+ 1.0+
1997 06 09	809	0.0 0.6-	1998 10 17	699	0.2- 0.9+	2000 03 29	704	0.8+ 0.6+
1997 06 09	809	0.7- 1.0-	1998 10 17	699	0.3- 1.0+	2000 03 29	704	0.6+ 1.1+
1997 06 09	809	1.4- 1.4-	1998 10 17	699	0.2- 1.1+	2000 03 29	704	0.5+ 1.2+
1997 06 10	691	0.0 0.4+	1998 10 20	699	0.0 1.1+	2000 04 02	699	0.1- 0.5+
1997 06 10	691	0.7+ 0.2-	1998 10 20	699	0.0 1.0+	2000 04 02	699	0.1- 0.5+
1997 06 10	691	0.3- 0.4+	1998 10 20	699	0.5+ 0.8+	2000 04 02	699	0.2- 0.5+
1997 06 26	691	0.0 0.2-	1998 10 29	704	0.8- 0.8+	2000 04 02	699	0.1+ 0.6+
1997 06 26	691	0.5- 0.4+	1998 10 29	704	1.7- 0.7+	2000 04 04	704	0.1+ 0.6+
1997 06 26	691	0.3+ 0.3+	1998 10 29	704	0.4- 0.0	2000 04 04	704	0.5+ 1.2+
1997 07 01	691	0.2+ 0.5+	1998 10 29	704	1.3- 0.0	2000 04 04	704	0.3+ 0.7+
1997 07 01	691	0.2+ 0.0	1998 10 29	704	1.5- 0.7-	2000 04 04	704	(1.2+ 2.5+)
1997 07 01	691	0.3- 0.1+	1998 11 10	704	0.8+ 0.1-	2000 04 04	704	0.8+ 1.4+
1998 08 28	704	(2.8- 0.3-)	1998 11 10	704	1.8+ 0.4-	2000 04 06	608	0.1- 0.2-
1998 08 28	704	1.1- 0.1-	1998 11 10	704	0.6+ 1.0-	2000 04 06	608	0.1+ 0.3-
1998 08 28	704	(2.4- 0.9-)	1998 11 10	704	0.3- 0.2-	2000 04 06	608	0.2- 0.2+
1998 08 28	704	(2.3- 0.1-)	1998 11 11	704	0.4+ 0.6-	2000 04 08	704	0.2+ 0.1+
1998 08 28	704	1.5- 0.4-	1998 11 11	704	1.7+ 0.0	2000 04 08	704	0.0 0.9+
1998 08 31	704	(2.2- 0.8+)	1998 11 11	704	(2.5+ 0.3-)	2000 04 08	704	0.3+ 0.1+
1998 08 31	704	(1.5- 2.6-)	1998 11 11	704	1.5+ 1.0+	2000 04 08	704	0.1- 0.3+
1998 08 31	704	0.7- 0.8+	1998 11 11	704	0.1- 0.7+	2000 04 08	704	0.1- 0.4+
1998 08 31	704	0.1+ 0.3-	1998 11 14	699	0.9+ 0.8+	2000 04 10	704	0.2+ 0.1+
1998 09 22	699	0.1- 0.1+	1998 11 14	699	1.3+ 0.2+	2000 04 10	704	0.2- 0.1+
1998 09 22	699	0.9- 1.0+	1998 11 14	699	0.7+ 0.1+	2000 04 10	704	0.3+ 0.1-
1998 09 22	699	0.7+ 0.3+	1998 12 08	704	0.3- 0.3-	2000 04 10	704	0.5+ 0.5-
1998 09 24	699	0.1- 1.5+	1998 12 08	704	0.3- 0.2-	2000 04 10	704	0.2- 0.4-

2000 APR. 18

M.P.C. 39827

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	209.39129		(2000.0)	P	Q
<i>n</i>	0.29250238	ω	145.90710	+0.98401444	+0.17502555
<i>a</i>	2.2475867	Ω	204.07674	-0.17602064	+0.92779666
<i>e</i>	0.2273704	<i>i</i>	4.62401	-0.02706146	+0.32948355
<i>P</i>	3.37	<i>H</i>	14.2	<i>G</i>	0.15

Residuals in seconds of arc

1991 11 09	399	0.4+	1.0-	1998 12 16	747	0.4-	0.2+	2000 04 06	704	0.0	0.3+
1991 11 09	399	0.3+	0.2-	1998 12 16	747	0.0	0.3+	2000 04 06	699	0.1-	0.0
1991 11 11	399	0.8-	0.9-	1998 12 16	747	0.0	0.3+	2000 04 06	704	0.2-	0.5+
1991 11 11	399	0.5+	0.2+	1998 12 17	747	0.1+	0.3+	2000 04 06	699	0.0	0.9+
1991 11 12	894	0.2+	0.9-	1998 12 17	747	0.0	0.1+	2000 04 06	704	0.3-	0.1+
1991 11 12	894	(2.2-	0.8+)	1999 01 18	704	0.5-	1.4-	2000 04 06	699	0.1-	0.6+
1991 11 13	399	0.8-	0.2+	1999 01 18	704	0.4+	1.1-	2000 04 06	704	0.1-	0.6+
1991 11 13	399	0.3+	1.0+	1999 01 18	704	1.1+	0.3-	2000 04 06	704	0.2+	0.1-
1991 11 15	894	0.7+	0.2+	1999 01 18	704	0.6+	1.9-	2000 04 07	704	0.2-	0.1+
1991 11 15	894	0.2+	1.8-	1999 01 18	704	1.1-	0.1+	2000 04 07	704	0.1-	0.3-
1991 12 05	399	0.2+	0.1+	1999 01 20	704	0.7+	1.5-	2000 04 07	704	0.3+	1.2+
1991 12 05	399	0.0	0.2-	1999 01 20	704	1.0+	0.8-	2000 04 07	704	0.2-	0.3+
1991 12 07	399	0.9-	0.3-	1999 01 20	704	0.1+	0.8+	2000 04 07	704	0.5+	0.4+
1997 05 03	809	0.9+	0.3-	1999 01 20	704	0.3-	1.4-	2000 04 07	704	0.2-	0.0
1997 05 03	809	0.1+	1.2-	1999 01 20	704	1.0+	0.2-	2000 04 07	704	0.1+	0.1-
1997 05 03	809	0.0	0.9-	2000 03 04	703	0.9-	0.3+	2000 04 07	704	0.2+	0.9+
1997 05 04	809	0.3-	1.7-	2000 03 04	703	(0.1+	2.7-)	2000 04 07	704	0.3-	0.6+
1997 05 04	809	0.7+	1.8-	2000 03 04	703	0.4+	0.6+	2000 04 07	704	0.6+	1.7+
1997 05 04	809	0.7-	1.9-	2000 03 04	703	0.1+	0.1-	2000 04 08	704	1.0+	0.2-
1997 06 05	691	0.9-	0.5+	2000 03 14	703	0.6-	0.6-	2000 04 08	704	0.2+	0.2-
1997 06 05	691	0.5-	0.0	2000 03 14	703	0.9+	0.1+	2000 04 08	704	0.9+	0.0
1997 06 05	691	0.2-	0.0	2000 03 14	703	0.5-	1.2-	2000 04 08	704	0.1-	0.3-
1997 06 07	809	(2.3+	1.7+)	2000 03 14	703	0.2+	0.5-	2000 04 08	704	0.2-	0.5-
1997 06 07	809	(2.0+	1.3+)	2000 04 02	699	0.4-	0.1-	2000 04 08	704	0.3+	0.4+
1997 06 07	809	(2.1+	1.3+)	2000 04 02	699	0.3-	0.3-	2000 04 08	704	0.3+	0.5-
1997 06 08	809	0.1+	1.8-	2000 04 02	699	0.4-	0.4+	2000 04 08	704	0.3+	1.4+
1997 06 08	809	0.4-	0.8-	2000 04 02	699	0.5-	0.1+	2000 04 08	704	0.0	0.6+
1997 06 08	809	0.2+	0.8-	2000 04 05	704	0.3+	0.2+	2000 04 10	704	0.3-	0.7+
1998 12 15	704	0.3-	0.6+	2000 04 05	704	0.1+	0.3-	2000 04 10	704	0.4+	0.1-
1998 12 15	704	0.3+	0.3-	2000 04 05	704	0.0	0.2-	2000 04 10	704	1.2-	0.4-
1998 12 15	704	0.9-	0.6+	2000 04 05	704	0.1+	0.6-	2000 04 10	704	0.4+	0.6-
1998 12 15	704	1.6-	1.5+	2000 04 06	699	0.0	0.3+	2000 04 10	704	0.1+	0.2-

(14428)* 1991 VM₁₂ = 1999 CL₂₉

Discovered 1991 Nov. 8 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33932)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	222.85277		(2000.0)	P	Q
<i>n</i>	0.17472928	ω	272.34502	+0.93331815	+0.35812374
<i>a</i>	3.1687813	Ω	66.67088	-0.31725706	+0.85617167
<i>e</i>	0.1952622	<i>i</i>	1.60881	-0.16812252	+0.37244792
<i>P</i>	5.64	<i>H</i>	13.2	<i>G</i>	0.15

Residuals in seconds of arc

1991 11 08	691	0.9+	0.3+	1998 11 30	910	0.4-	0.5+	2000 04 02	691	0.0	0.3+
1991 11 08	691	0.8+	0.3+	1998 11 30	910	0.3-	0.6+	2000 04 05	704	0.2+	0.1+
1991 11 08	691	0.2-	0.2+	1999 02 10	704	0.2-	0.5+	2000 04 05	704	0.8+	0.2+
1991 11 12	691	0.1+	0.3+	1999 02 10	704	0.5+	0.2+	2000 04 05	704	0.4+	0.4+
1991 11 12	691	0.1-	0.9+	1999 02 10	704	1.3+	0.1-	2000 04 05	704	0.3+	0.0
1991 11 12	691	0.6+	0.4+	1999 02 10	704	(2.3+	0.4-)	2000 04 05	704	0.2+	0.1-
1991 12 05	399	0.2-	0.1-	1999 02 13	704	1.0+	1.3-	2000 04 06	699	0.8+	0.5+
1991 12 05	399	(2.8-	0.7+)	1999 02 13	704	1.0+	0.8-	2000 04 06	704	0.9+	0.7-
1991 12 09	399	(2.3-	0.8-)	1999 02 13	704	0.4+	0.6+	2000 04 06	704	0.4+	0.2+
1991 12 09	399	(3.6-	0.8+)	1999 02 13	704	1.9-	1.0-	2000 04 06	699	0.8+	0.3+
1993 01 26	691	1.0-	0.5+	2000 03 03	120	1.7-	0.4+	2000 04 06	704	0.0	0.6-
1993 01 26	691	0.7-	0.4+	2000 03 03	120	0.9-	0.4+	2000 04 06	699	0.2-	0.0
1993 01 26	691	0.8-	0.5+	2000 03 03	120	0.2-	0.3-	2000 04 06	704	0.1-	0.9-
1994 03 12	691	0.9-	0.4+	2000 03 04	703	1.6-	0.2+	2000 04 06	699	0.1+	0.8+

1994 03 12	691	0.4-	0.2-	2000 03 04	703	0.5-	0.9+	2000 04 06	704	0.3+	1.0-
1994 03 12	691	0.0	0.0	2000 03 04	703	0.0	0.0	2000 04 07	699	0.2-	0.4+
1996 09 08	566	0.3-	0.3-	2000 03 04	703	0.0	0.4+	2000 04 07	699	0.5-	0.2+
1996 09 08	566	0.1-	0.3-	2000 03 16	120	(2.7-	1.7+)	2000 04 07	699	0.3-	0.1+
1996 09 08	566	0.3-	0.4-	2000 03 16	120	0.7+	1.1-	2000 04 07	699	0.7+	0.5+
1998 01 26	704	0.0	0.3-	2000 04 01	691	0.3+	0.0	2000 04 10	704	0.2-	0.0
1998 01 26	704	0.2+	0.1-	2000 04 01	691	0.4+	0.2-	2000 04 10	704	0.2+	0.5-
1998 01 26	704	0.3+	0.8-	2000 04 01	691	0.3+	0.2-	2000 04 10	704	0.0	0.6-
1998 01 26	704	1.4-	0.7-	2000 04 02	691	0.1+	0.5+	2000 04 10	704	0.1-	0.2-
1998 11 30	910	0.5-	0.1-	2000 04 02	691	0.4+	0.4+	2000 04 10	704	0.0	0.2-

(14429)* 1991 XC

Discovered 1991 Dec. 3 by C. S. Shoemaker at Palomar.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	56.64095		(2000.0)	P	Q
<i>n</i>	0.25857292	ω	92.29176	-0.05590365	-0.99841669
<i>a</i>	2.4401359	Ω	0.98044	+0.70809009	-0.04404946
<i>e</i>	0.3027111	<i>i</i>	21.37376	+0.70390568	-0.03498217
<i>P</i>	3.81	<i>H</i>	13.7	<i>G</i>	0.15

Residuals in seconds of arc

1991 12 03	675	0.6-	0.3-	1996 03 10	072	0.9+	0.1-	1998 09 21	704	0.2-	0.8-
1991 12 03	675	(2.4-	0.5-)	1996 03 13	072	0.7+	0.9+	1998 10 17	699	0.3-	0.1+
1991 12 06	675	0.2-	0.5-	1996 03 13	072	0.7+	0.5+	1998 10 17	699	0.1-	0.7-
1991 12 06	675	0.4+	1.0-	1996 04 22	566	0.1-	0.0	1998 10 17	699	1.0+	0.0
1991 12 31	675	1.3-	1.0+	1996 04 22	566	0.5-	0.2+	1998 11 02	725	0.0	0.5+
1991 12 31	675	0.5-	0.5-	1996 04 22	566	0.1+	0.4-	1998 11 02	725	0.3+	0.6+
1992 02 04	675	0.4-	0.2+	1996 04 22	566	0.2-	0.1+	1998 11 02	725	0.4-	0.3+
1992 02 05	675	0.4-	1.8-	1996 04 22	566	0.6+	0.2-	2000 02 10	704	0.8+	0.1-
1992 02 05	675	0.3-	1.2+	1996 04 22	566	0.4-	0.6+	2000 02 10	704	1.0-	0.6+
1992 02 28	675	0.2-	0.8-	1998 09 01	426	0.0	0.1-	2000 02 10	704	0.1-	0.6+
1992 03 01	675	0.7+	0.6+	1998 09 01	426	0.1+	0.3-	2000 03 09	704	0.2+	0.4-
1992 03 01	675	1.2+	0.3-	1998 09 01	426	0.5+	0.2-	2000 03 09	704	0.1+	0.1-
1995 12 23	801	0.4+	0.0	1998 09 03	426	0.6+	0.2+	2000 03 09	704	0.7-	0.5+
1995 12 23	801	0.4+	0.2-	1998 09 03	426	0.4+	0.1+	2000 03 27	699	0.2-	0.2-
1996 01 21	801	0.3+	0.4-	1998 09 03	426	0.5+	0.3-	2000 03 27	699	0.6-	0.4-
1996 01 25	801	0.9+	0.2+	1998 09 17	699	0.0	0.3+	2000 03 27	699	0.3-	0.1+
1996 01 25	801	0.6+	0.4-	1998 09 17	699	0.3-	0.0	2000 03 27	699	0.7-	0.1-
1996 02 16	801	0.1-	0.3+	1998 09 17	699	0.3-	0.2+	2000 04 07	704	0.4-	0.3-
1996 02 16	801	0.1-	0.4+	1998 09 21	704	0.0	0.4-	2000 04 07	704	0.0	0.6-
1996 02 19	801	0.1+	0.6+	1998 09 21	704	0.9-	0.2+	2000 04 07	704	0.3-	0.8-
1996 02 19	801	0.0	0.4-	1998 09 21	704	0.4-	0.8+	2000 04 07	704	0.4-	0.7-
1996 03 10	072	0.2+	0.0	1998 09 21	704	0.5-	0.4-	2000 04 07	704	0.1+	0.4-

(14430)* 1992 CH = 1992 FU₂ = 1983 AC₃ = 1996 CU₁

Discovered 1992 Feb. 10 by N. Kawasato at Uenohara.

Id. G. V. Williams (d, *MPC* 25625; *MPC* 26742), B. G. Marsden (*MPC* 26742)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	348.07771		(2000.0)	P	Q
<i>n</i>	0.23108796	ω	168.70979	-0.51133060	-0.84380790
<i>a</i>	2.6299722	Ω	311.80787	+0.77047477	-0.36616784
<i>e</i>	0.10971104	<i>i</i>	12.62185	+0.38067000	-0.39231281
<i>P</i>	4.27	<i>H</i>	13.1	<i>G</i>	0.15

Residuals in seconds of arc

1992 03 22	399	(3.8− 0.4−)	1998 09 14	704	0.1+ 0.5+	2000 01 02	704	(0.2− 2.6−)
1992 03 22	399	(2.3− 0.3+)	1998 09 14	704	0.6+ 1.2+	2000 01 29	704	0.2+ 1.7+
1994 06 12	691	0.3− 0.2−	1998 09 14	704	0.0 0.7+	2000 01 29	704	(0.8− 3.3−)
1994 06 12	691	0.5− 0.2−	1998 09 14	704	0.3+ 0.5+	2000 01 29	704	0.1− 1.0−
1994 06 12	691	0.4− 0.6−	1998 09 14	704	0.0 0.5+	2000 01 29	704	0.2− 0.5−
1996 02 15	566	0.8+ 0.6+	1998 09 18	704	0.4+ 0.2−	2000 01 29	704	0.2− 0.9−
1996 02 15	566	0.1+ 0.5+	1998 09 18	704	1.1+ 0.7−	2000 02 04	704	0.2− 0.1−
1996 02 15	566	0.5+ 1.0+	1998 09 18	704	0.3+ 1.4−	2000 02 04	704	0.6+ 0.9+
1996 02 16	566	0.3− 1.2+	1998 09 18	704	1.0+ 0.5−	2000 02 04	704	1.3+ 0.3+
1996 02 16	566	0.2− 1.0+	1998 09 18	704	0.5+ 0.6−	2000 02 11	704	0.2+ 0.2+
1996 02 16	566	0.1− 1.0+	1999 09 27	704	0.4− 0.1−	2000 02 11	704	0.4− 0.0
1996 02 20	566	0.5+ 0.1+	1999 09 27	704	0.4− 0.7−	2000 02 11	704	0.2− 0.0
1996 02 20	566	0.3+ 0.3+	1999 09 27	704	0.3− 0.6−	2000 02 11	704	0.3− 0.3−
1996 02 20	566	0.5+ 0.1−	1999 09 27	704	0.4− 0.0	2000 02 11	704	0.5− 0.2−
1997 04 27	689	(25.2− 4.4−)	1999 11 01	704	0.3+ 1.6−	2000 03 09	704	0.3− 0.4+
1998 08 17	704	0.5+ 0.1+	1999 11 01	704	0.7+ 0.8−	2000 03 09	704	0.6− 0.0
1998 08 17	704	0.1− 0.6+	1999 11 01	704	0.6+ 0.1+	2000 03 09	704	0.1− 1.2+
1998 08 17	704	0.9+ 0.8+	1999 11 01	704	0.4+ 0.9+	2000 03 09	704	0.1− 0.7+
1998 08 17	704	0.0 0.4−	1999 11 01	704	0.9+ 1.2+	2000 03 09	704	0.0 0.8+
1998 08 17	704	0.1− 0.6−	1999 12 13	704	0.0 0.1+	2000 04 02	704	1.0+ 1.4−
1998 08 23	704	0.6− 0.1−	1999 12 13	704	0.1+ 0.6+	2000 04 02	704	0.2− 0.0
1998 08 23	704	0.1+ 0.1+	1999 12 13	704	0.5− 0.1+	2000 04 02	704	0.8− 0.6+
1998 08 23	704	0.8− 0.9+	1999 12 13	704	0.6− 0.2+	2000 04 02	704	0.9− 0.6+

(14431)* 1992 DX₈ = 1998 WB₁₇

Discovered 1992 Feb. 29 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 33230)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.08493	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25685527	ω 11.74255	+0.08444521	−0.99489030
<i>a</i>	2.4510023	Ω 73.43204	+0.90946752	+0.05426612
<i>e</i>	0.0904875	<i>i</i> 3.30981	+0.40710912	+0.08513798
<i>P</i>	3.84	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1990 09 28	675	0.5− 0.7+	1998 11 24	704	0.3+ 1.4+	2000 03 14	703	0.6− 0.7+
1992 02 29	809	(1.8− 2.2−)	1998 11 25	699	0.1− 0.2+	2000 03 14	703	0.1− 0.2+
1992 03 03	809	0.6− 0.4−	1998 11 25	699	0.4− 0.0	2000 03 14	703	0.9+ 1.7+
1992 03 07	809	0.1+ 0.2−	1998 11 25	699	0.1+ 0.8+	2000 04 04	699	0.5− 0.0
1992 04 06	809	0.3+ 0.4−	1998 12 08	699	0.5− 0.3+	2000 04 04	699	0.1+ 0.3+
1998 10 20	699	1.1− 1.1+	1998 12 08	699	0.0 0.1−	2000 04 04	699	0.0 0.1+
1998 10 20	699	0.4− 0.0	1998 12 08	691	0.2+ 0.0	2000 04 04	699	0.3+ 0.1−
1998 10 20	699	0.2+ 0.8−	1998 12 08	699	0.3− 0.7−	2000 04 07	704	0.1− 0.0
1998 10 27	910	0.9+ 0.5+	1998 12 08	691	0.0 0.1−	2000 04 07	704	0.3− 0.1+
1998 10 27	910	0.8+ 0.1+	1998 12 08	691	0.2+ 0.1+	2000 04 07	699	0.1− 0.6−
1998 10 27	910	0.6+ 0.2−	1998 12 14	691	0.1− 0.1−	2000 04 07	704	0.7+ 0.7−
1998 11 21	704	0.1− 0.0	1998 12 14	691	0.2− 0.0	2000 04 07	699	0.2− 0.0
1998 11 21	704	0.1+ 0.2−	1998 12 14	691	0.2− 0.0	2000 04 07	699	0.2+ 0.0
1998 11 21	704	1.7+ 0.8−	1998 12 25	691	0.2− 0.1−	2000 04 07	704	0.0 0.2−
1998 11 21	704	1.2+ 0.9−	1998 12 25	691	0.2− 0.1−	2000 04 07	699	0.1+ 0.4−
1998 11 21	704	(1.0+ 2.5−)	1998 12 25	691	0.2− 0.1−	2000 04 08	704	0.6+ 0.4+
1998 11 24	704	0.0 0.1+	1999 01 10	691	0.8− 0.2−	2000 04 08	704	0.2− 1.5+
1998 11 24	704	0.6− 0.2+	1999 01 10	691	0.9− 0.1−	2000 04 08	704	0.4+ 0.2−
1998 11 24	704	0.1+ 0.3+	1999 01 10	691	0.8− 0.2−	2000 04 08	704	0.1+ 0.3+
1998 11 24	704	0.0 0.4+	2000 03 14	703	0.6− 0.0	2000 04 08	704	0.0 0.5−

(14432)* 1992 EA₆ = 1986 PZ₂ = 1997 MS₁₀

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. A. Doppler (*MPC* 32452)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	92.51075	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25800666	ω 315.84401	+0.10548897	−0.98957759
<i>a</i>	2.4437050	Ω 127.85543	+0.94330693	+0.06838361
<i>e</i>	0.1534658	<i>i</i> 7.13151	+0.31471273	+0.12672759
<i>P</i>	3.82	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1986 08 01	675	(17.4− 1.2−)	1998 11 07	758	0.3− 0.2−	2000 03 08	704	0.2+ 0.5−
1986 08 01	675	(14.6− 0.8+)	1998 11 07	758	0.6− 1.1+	2000 03 08	704	0.1+ 0.0
1992 03 02	809	0.9+ 1.2−	1998 11 07	758	0.4− 0.5−	2000 03 08	704	0.1+ 0.5+
1992 03 05	809	1.0− 0.6+	1998 11 09	104	0.7− 0.3+	2000 04 04	699	0.4+ 0.0
1992 03 07	809	0.1− 0.2−	1998 11 09	104	0.4− 0.4+	2000 04 04	704	0.2+ 0.1+
1997 06 28	704	0.1+ 0.2+	1998 11 09	104	0.1− 0.0	2000 04 04	699	0.0 0.0
1997 06 28	704	0.6+ 1.1+	1998 11 13	704	0.7− 0.5+	2000 04 04	704	0.2− 0.4−
1997 06 28	704	0.4− 0.3+	1998 11 13	704	0.2+ 1.0+	2000 04 04	699	0.1− 0.2+
1997 06 29	704	0.2+ 0.6−	1998 11 13	704	0.1− 0.2+	2000 04 04	704	0.1− 0.7+
1997 06 29	704	0.2+ 0.5−	1998 11 13	704	0.8− 0.9+	2000 04 04	699	0.3− 0.0
1997 06 29	704	0.0 0.4−	1998 11 13	704	0.7− 0.5+	2000 04 04	704	0.9+ 0.7+
1997 06 29	704	1.3− 0.6+	1998 12 11	699	1.7+ 0.3+	2000 04 04	704	0.6+ 0.8+
1998 08 31	704	0.2− 1.6−	1998 12 11	699	1.2+ 0.4+	2000 04 07	699	0.1+ 0.3−
1998 08 31	704	(0.2− 4.3−)	1998 12 11	699	1.4+ 0.2−	2000 04 07	699	0.1− 0.1−
1998 08 31	704	(2.1− 0.3−)	1999 01 11	704	1.1+ 1.1−	2000 04 07	699	0.5− 0.4+
1998 08 31	704	0.7+ 0.3+	1999 01 11	704	1.4− 0.2−	2000 04 07	699	0.1+ 0.6+
1998 08 31	704	1.0− 1.1+	1999 01 11	704	0.2− 0.6−	2000 04 08	704	0.8+ 0.0
1998 10 12	699	(0.9+ 4.9+)	1999 01 11	704	0.2− 1.5−	2000 04 08	704	0.1− 0.4+
1998 10 12	699	0.7+ 1.4+	1999 01 11	704	0.6+ 1.6+	2000 04 08	704	0.2+ 0.1+
1998 10 12	699	1.2− 1.2+	1999 02 04	704	1.1− 1.4−	2000 04 08	704	0.2+ 0.1+
1998 10 16	704	0.2+ 0.4+	1999 02 04	704	1.2+ 1.2+	2000 04 08	704	0.3+ 1.3+
1998 10 16	704	0.8+ 0.1−	1999 02 04	704	1.0− 0.5−	2000 04 09	699	0.3− 0.5+
1998 10 16	704	0.3+ 0.4−	1999 02 04	704	(1.0− 2.2+)	2000 04 09	699	0.2− 0.3+
1998 10 16	704	0.2− 1.3−	2000 03 08	704	0.2+ 0.2−	2000 04 09	699	0.1− 0.6+
1998 10 16	704	0.2− 0.9+	2000 03 08	704	0.9+ 0.4+	2000 04 09	699	0.3− 0.0

(14433)* 1992 EE₈ = 1982 SS₃

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. A. Gnädig (*MPC* 34840), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	273.66141	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26081516	ω 133.90263	+0.43494830	+0.89976741
<i>a</i>	2.4261305	Ω 161.78827	−0.85506540	+0.42496033
<i>e</i>	0.1245160	<i>i</i> 6.46572	−0.28228202	+0.09913289
<i>P</i>	3.78	<i>H</i> 14.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1982 09 24	033	0.4− 0.5+	1992 03 04	809	0.1− 0.7+	2000 04 07	704	1.1+ 1.0+
1982 09 24	033	0.7+ 0.3+	1992 03 07	809	0.5+ 0.4−	2000 04 07	704	0.1+ 0.1−
1982 10 15	413	0.6− 0.6+	1992 04 06	809	0.5+ 0.1−	2000 04 07	704	0.6+ 0.6+
1982 10 15	413	0.5− 0.4+	1997 08 11	691	0.3− 0.3+	2000 04 07	704	0.7+ 0.3−
1990 10 25	675	0.5− 0.1+	1997 08 11	691	0.3+ 0.3+	2000 04 08	704	0.4− 0.3−
1990 10 25	675	(3.2+ 1.2+)	1997 08 11	691	0.1+ 0.7+	2000 04 08	704	0.4− 0.1+
1992 02 25	675	1.2+ 1.0+	2000 03 14	688	1.9− 0.7+	2000 04 08	704	0.5− 0.9−
1992 02 25	675	(2.6+ 0.5+)	2000 03 14	688	0.4+ 0.3−			
1992 03 02	809	0.6− 0.9+	2000 04 07	704	0.2− 1.1+			

(14434)* 1992 ER₁₁ = 1993 QR₁₀

Discovered 1992 Mar. 6 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 29916)

2000 APR. 18

M.P.C. 39829

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	322.01101		(2000.0)	P		Q	
<i>n</i>	0.25371455	ω	89.77703	−0.52917054	+0.84731245		
<i>a</i>	2.4711881	Ω	148.14270	−0.80856866	−0.48740226		
<i>e</i>	0.1671287	<i>i</i>	4.90920	−0.25728438	−0.21095177		
<i>P</i>	3.88	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1992 02 29	809	0.6+	0.2+	2000 02 08	704	0.1+	0.6+
1992 03 05	691	0.5+	0.0	2000 02 08	704	0.3+	0.8+
1992 03 05	691	0.2+	0.3−	2000 02 08	704	0.1+	0.7+
1992 03 05	691	0.2+	0.0	2000 02 11	704	0.8+	0.8+
1992 03 06	809	0.6−	0.3+	2000 02 11	704	0.2−	0.3−
1992 03 08	809	0.3+	0.3+	2000 02 11	704	0.3+	0.2−
1992 03 09	809	0.2+	0.9+	2000 02 11	704	0.5+	0.6−
1992 04 06	809	1.0−	0.7+	2000 02 11	704	0.2−	0.4−
1993 08 20	675	0.3+	0.4+	2000 02 11	704	0.9+	0.2+
1993 08 20	675	0.7+	0.5+	2000 03 29	704	0.5−	0.2+
1993 08 24	675	0.1+	0.9−	2000 03 29	704	0.4−	0.0
1993 08 24	675	0.7−	0.9−	2000 03 29	704	0.0	0.1+
1998 12 16	704	0.2−	0.5+	2000 03 29	704	0.5−	0.0
1998 12 16	704	1.6−	0.2+	2000 03 29	704	0.2−	0.2−
1998 12 16	704	(3.3− 1.6+)		2000 04 01	718	1.7+	1.3−
1998 12 22	704	0.5+	1.3−	2000 04 01	718	0.3−	0.3+
1998 12 22	704	1.0+	0.9−	2000 04 01	718	0.1+	0.1−
1998 12 22	704	0.2−	0.9−	2000 04 02	718	0.2−	0.4−
1998 12 22	704	1.3+	0.7−	2000 04 02	718	0.0	0.4−
1998 12 22	704	0.6−	0.2−	2000 04 02	718	0.4−	0.7−
2000 01 10	699	0.2−	0.2+	2000 04 04	704	0.2−	0.3−
2000 01 10	699	0.1+	0.2+	2000 04 04	704	0.0	0.4+
2000 01 10	699	0.4+	0.6+	2000 04 04	704	0.4−	0.4+

(14435)* 1992 ED₁₃ = 1990 VO₁₅ = 1997 RB₈

Discovered 1992 Mar. 2 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. S. Nakano (*MPC* 30656)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	230.47074		(2000.0)	P		Q	
<i>n</i>	0.26571219	ω	148.27955	+0.96631452	+0.25533155		
<i>a</i>	2.3962294	Ω	197.01722	−0.25312253	+0.92020566		
<i>e</i>	0.1414390	<i>i</i>	6.33272	−0.04653209	+0.29669402		
<i>P</i>	3.71	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1990 11 13	809	0.1−	1.6−	1997 09 12	402	0.2−	0.0
1990 11 13	809	0.5+	0.6−	1997 09 12	402	0.1−	0.1−
1990 11 13	809	1.4+	0.1+	1999 01 14	699	0.6+	0.3+
1992 02 28	675	0.8+	1.1+	1999 01 14	699	1.3−	1.0+
1992 02 28	675	1.2−	0.4−	1999 01 14	699	0.1+	0.1−
1992 03 02	809	1.5−	0.2+	1999 02 12	704	1.3+	0.8+
1992 03 05	809	0.1+	0.4−	1999 02 12	704	0.1+	0.3+
1992 03 09	809	(0.5− 2.8−)		1999 02 12	704	1.3−	0.3+
1992 04 07	809	1.5−	0.2−	1999 02 12	704	1.2+	0.0
1996 04 19	566	1.2+	0.9−	1999 02 12	704	0.3−	0.3−
1996 04 19	566	0.1+	1.9−	1999 03 12	561	0.4+	0.4+
1996 04 19	566	0.6+	0.1−	1999 03 12	561	1.3−	0.3−
1997 09 10	402	0.2+	0.0	1999 03 12	561	0.6+	1.0+
1997 09 10	402	0.4+	0.0	1999 03 17	561	0.7+	0.2−
1997 09 10	402	0.2+	0.1−	1999 03 17	561	0.6−	0.5−
1997 09 11	402	0.6−	0.5+	1999 03 17	561	0.0	0.3−
1997 09 11	402	0.6−	0.0	2000 03 01	703	0.7+	0.2+
1997 09 11	402	0.3−	0.0	2000 03 01	703	0.3−	0.5+
1997 09 12	402	0.1−	0.1−	2000 03 01	703	0.2−	0.1−

(14436)* 1992 FC₂ = 1998 TN₂₈ = 2000 AU₆₀

Discovered 1992 Mar. 23 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 37631)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	318.27944		(2000.0)	P		Q	
<i>n</i>	0.23831719	ω	207.34506	−0.93091240	+0.36522701		
<i>a</i>	2.5765138	Ω	354.07350	−0.32886385	−0.84216688		
<i>e</i>	0.2203244	<i>i</i>	1.86853	−0.15890459	−0.39669155		
<i>P</i>	4.14	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 03 23	400	(3.9− 1.0+)	2000 01 06	704	0.2+	0.3−	2000 02 05	106	0.3−	1.2−
1992 03 23	400	1.7− 0.9+	2000 01 06	704	0.2+	0.7−	2000 02 05	106	0.1+	0.3−
1992 03 28	400	0.8+ 0.2−	2000 01 06	704	0.1+	0.6−	2000 02 05	106	0.4+ 0.4−	
1992 03 28	400	1.5+ 0.4+	2000 01 06	704	0.0	0.5−	2000 02 06	704	0.1+ 0.3+	
1992 04 23	400	(3.6+ 2.1+)	2000 01 06	704	0.0	0.0	2000 02 06	704	0.1+ 0.2+	
1992 04 23	400	(0.5+ 2.3−)	2000 01 11	120	0.2−	0.0	2000 02 06	704	0.1+ 0.0	
1996 03 12	691	0.8− 0.4−	2000 01 12	120	0.3−	0.6+	2000 02 06	704	0.1+ 0.1−	
1996 03 12	691	0.4− 0.4−	2000 01 12	120	0.9−	1.1−	2000 02 06	704	0.2− 0.0	
1996 03 12	691	0.3− 0.6−	2000 01 12	120	0.6−	0.7−	2000 02 08	704	0.2− 0.1−	
1996 03 15	566	0.1− 0.8−	2000 01 30	703	0.1−	0.1+	2000 02 08	704	0.2+ 0.1+	
1996 03 15	566	0.0 0.5−	2000 01 30	703	0.5−	0.2+	2000 02 08	704	0.1+ 0.1−	
1996 03 15	566	0.0 0.9−	2000 01 30	703	0.6−	0.3+	2000 02 08	704	0.2+ 0.3+	
1997 07 31	691	0.3− 0.6+	2000 01 30	703	0.4−	0.1+	2000 02 08	704	0.0 0.3−	
1997 07 31	691	0.3− 0.7+	2000 01 30	704	0.1+	0.0	2000 02 08	704	0.4+ 0.5+	
1997 07 31	691	0.2− 0.6+	2000 01 30	704	0.4+ 0.2+	2000 02 08	704	0.0 0.6−		
1998 10 15	691	0.3+ 0.0	2000 01 30	704	0.8+ 0.4+	2000 02 08	704	0.5+ 0.4+		
1998 10 15	691	0.3+ 0.1+	2000 01 30	704	0.9+ 0.2+	2000 02 08	704	0.6− 0.6−		
1998 10 15	691	0.3+ 0.2+	2000 02 03	704	0.1− 0.1+	2000 02 08	704	0.2+ 0.4+		
1998 10 20	691	0.4− 0.3+	2000 02 03	704	0.2− 0.5+	2000 02 09	106	0.0 0.2−		
1998 10 20	691	0.5− 0.0	2000 02 03	704	0.7− 0.5+	2000 02 09	106	0.3− 0.2−		
1998 10 20	691	0.3− 0.1+	2000 02 03	704	0.5− 0.7+	2000 02 11	704	0.3+ 0.2+		
1999 11 16	704	0.5− 0.8−	2000 02 03	704	0.5− 1.4+	2000 02 11	704	0.2+ 0.2+		
1999 11 16	704	0.6− 0.2−	2000 02 05	704	0.1− 0.0	2000 02 11	704	0.3+ 0.1+		
1999 11 16	704	0.2+ 0.1−	2000 02 05	704	0.3− 0.1+	2000 02 11	704	0.4+ 0.2−		
1999 11 16	704	1.4− 0.8+	2000 02 05	704	0.1− 0.2+	2000 02 11	704	0.2− 0.2−		
1999 11 16	704	0.3− 0.5−	2000 02 05	704	0.1− 0.2−	2000 02 26	703	0.3− 0.3+		
1999 12 07	704	0.2+ 0.0	2000 02 05	704	0.2− 0.2+	2000 02 26	703	0.1+ 0.4+		
1999 12 07	704	0.7+ 0.5−	2000 02 05	704	0.2− 0.2+	2000 02 26	703	0.0 0.6+		
1999 12 07	704	0.1+ 0.8−	2000 02 05	704	0.2+ 0.4+	2000 02 26	703	0.2− 0.2−		
1999 12 07	704	0.1− 0.3−	2000 02 05	704	0.0 0.3+	2000 03 04	704	0.5+ 0.2+		
1999 12 07	704	0.6+ 0.5−	2000 02 05	704	0.2− 0.7+	2000 03 04	704	0.5+ 0.2−		
1999 12 09	699	0.5+ 0.3+	2000 02 05	704	0.2+ 0.4+	2000 03 04	704	0.3+ 0.1+		
1999 12 09	699	0.2+ 0.2−	2000 02 05	704	0.1+ 0.2+	2000 03 04	704	0.4+ 0.3+		
1999 12 09	699	0.1− 0.2+	2000 02 05	704	0.1− 0.5+	2000 03 04	704	0.1− 0.4+		
2000 01 04	704	0.3+ 0.3−	2000 02 05	704	0.3+ 0.5+	2000 03 26	699	0.4− 0.3+		
2000 01 04	704	0.1+ 0.6−	2000 02 05	704	0.1+ 0.4+	2000 03 26	699	0.2− 0.2+		
2000 01 04	704	0.1− 0.1−	2000 02 05	704	0.1+ 0.5+	2000 03 26	699	0.4− 0.1+		
2000 01 04	704	0.1− 0.3−	2000 02 05	704	0.0 0.3+	2000 03 26	699	0.0 0.1+		
2000 01 04	704	0.0 1.0−	2000 02 05	704	0.2+ 0.5+	2000 04 10	704	0.8− 0.6+		
2000 01 05	699	0.7+ 0.2+	2000 02 05	704	0.4+ 0.3+	2000 04 10	704	0.0 0.5+		
2000 01 05	699	0.2+ 0.2−	2000 02 05	704	0.6+ 0.4+	2000 04 10	704	0.8+ 0.5−		
2000 01 05	699	0.1+ 0.0	2000 02 05	704	0.0 0.1+					

(14437)* 1992 GD₃ = 1969 TM₇ = 1996 HX₂₁

Discovered 1992 Apr. 4 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 27309)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	248.83871		(2000.0)	P		Q	
<i>n</i>	0.24436630	ω	97.75942	+0.63263164	+0.77102000		
<i>a</i>	2.5338166	Ω	211.85632	−0.75377583	+0.59142408		
<i>e</i>	0.0429002	<i>i</i>	7.93244	−0.17776166	+0.23610530		
<i>P</i>	4.03	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1969 10 08	033	1.3+	0.9+	1997 08 30	566	0.0	0.1+	2000 04 04	699	0.3-	0.2+
1969 10 08	033	0.1-	0.4+	1997 08 31	560	0.2+	0.4+	2000 04 04	699	0.1-	0.4+
1992 04 04	809	0.3-	0.3-	1997 08 31	560	0.1-	0.2+	2000 04 04	699	0.3-	0.0
1992 04 04	809	0.6-	1.4-	1997 08 31	560	1.0+	0.1-	2000 04 04	699	0.4-	0.1+
1992 04 04	809	0.9-	1.0-	1998 12 15	704	0.5-	0.1-	2000 04 07	704	0.4+	0.5+
1992 04 06	809	0.7-	0.1+	1998 12 15	704	1.7+	0.4-	2000 04 07	704	0.5+	0.5+
1992 04 06	809	1.3-	0.7-	1998 12 15	704	0.0	0.8-	2000 04 07	704	0.6+	0.6+
1992 04 06	809	1.5-	0.1-	1998 12 15	704	1.5-	0.3+	2000 04 07	704	0.2-	0.1+
1992 04 25	809	1.9-	0.5+	1999 01 18	704	0.8+	0.4+	2000 04 08	704	0.7+	0.2+
1992 04 25	809	(2.3-	0.1+)	1999 01 18	704	1.6-	1.6-	2000 04 08	704	0.6+	0.2-
1992 04 25	809	0.5-	0.6-	1999 01 18	704	0.4+	0.9+	2000 04 08	704	0.4+	0.2-
1992 05 07	691	0.4-	0.0	1999 01 18	704	0.5-	1.0-	2000 04 08	704	0.6-	0.5-
1992 05 07	691	0.3-	1.1+	1999 01 18	704	0.1-	1.4+	2000 04 08	704	0.7-	1.7-
1992 05 07	691	0.9+	0.1+	2000 03 10	704	0.7+	1.1-	2000 04 10	704	0.1+	0.5+
1996 04 21	566	0.4+	0.8-	2000 03 10	704	0.1-	0.1+	2000 04 10	704	0.3+	0.8+
1996 04 21	566	0.8+	0.5-	2000 03 10	704	0.0	0.8+	2000 04 10	704	0.7+	0.6+
1996 04 21	566	0.7+	1.1-	2000 03 10	704	0.4+	0.4-	2000 04 10	704	0.3+	1.3+
1996 04 22	566	0.3-	0.4+	2000 03 14	704	0.3+	0.6+	2000 04 10	608	0.7+	0.5-
1996 04 22	566	0.0	0.6-	2000 03 14	704	0.6+	0.9+	2000 04 10	608	0.6+	0.5-
1996 04 22	566	0.1+	0.5-	2000 03 14	704	0.8+	0.7+	2000 04 10	608	0.7+	0.7-
1997 08 30	566	1.1-	0.8-	2000 03 14	704	0.4+	0.9+				
1997 08 30	566	0.7-	0.5-	2000 03 14	704	0.5-	1.5+				

(14438)* 1992 HC₂ = 1999 XE₂

Discovered 1992 Apr. 27 by Spacewatch at Kitt Peak.

Id. S. Nakano (*MPC* 37119)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	77.47720		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.19921204	ω	229.44237	+0.99912967	+0.00385009
a	2.9035256	Ω	130.29488	+0.01158052	+0.93098416
e	0.1006832	i	3.12158	-0.04007246	+0.36503926
P	4.95	H	13.7	G 0.15	U 1

Residuals in seconds of arc

1992 04 27	691	0.0	0.9+	1998 08 17	704	0.1-	0.7-	1999 12 03	888	0.4-	0.2+
1992 04 27	691	0.4+	0.0	1998 08 17	704	0.6-	0.6-	1999 12 03	888	0.6+	0.5+
1992 04 27	691	0.1+	0.2+	1998 08 27	699	0.3+	0.6-	1999 12 04	888	0.2+	0.7+
1992 04 30	691	0.0	0.5+	1998 08 27	699	0.5-	1.0+	1999 12 04	888	0.1+	0.3+
1992 04 30	691	0.3+	0.4+	1998 08 27	699	0.7+	0.6-	1999 12 04	888	0.2-	0.0
1992 04 30	691	0.2+	0.3+	1999 11 04	704	0.2+	0.7-	1999 12 08	704	0.3+	0.2-
1992 05 06	691	0.5-	0.6-	1999 11 04	704	0.0	0.2+	1999 12 08	704	0.0	0.1-
1992 05 06	691	0.4-	0.1-	1999 11 04	704	0.6+	0.1-	1999 12 08	704	0.2-	0.1-
1992 05 06	691	0.6+	0.7-	1999 11 04	704	0.1+	0.5-	1999 12 08	704	0.1-	0.1+
1996 02 10	327	0.9-	2.0-	1999 11 04	704	0.5-	0.2-	1999 12 08	704	0.1+	0.3+
1996 02 10	327	0.3-	0.4+	1999 11 15	704	0.2-	0.0	2000 01 05	704	0.7+	0.0
1996 02 10	327	0.2-	0.3-	1999 11 15	704	0.1-	0.1+	2000 01 05	704	0.2-	0.3+
1996 02 10	327	1.0-	0.6+	1999 11 15	704	0.4-	0.6+	2000 01 05	704	0.1+	0.2+
1996 02 14	691	0.2+	0.2-	1999 11 15	704	0.1+	0.2+	2000 01 05	704	0.1+	0.0
1996 02 14	691	0.0	0.0	1999 11 15	704	0.7-	0.7+	2000 01 05	704	0.1-	0.3+
1996 02 14	691	0.5+	0.3-	1999 11 17	704	0.4+	0.0	2000 01 06	704	0.5+	0.1+
1997 04 11	704	0.6+	0.3-	1999 11 17	704	0.4-	0.1-	2000 01 06	704	0.4+	0.2-
1997 04 11	704	0.2+	1.1+	1999 11 17	704	0.7-	0.6-	2000 01 06	704	0.1+	0.4-
1998 08 17	704	0.1-	0.3+	1999 11 17	704	0.2-	0.2-	2000 01 06	704	0.3+	0.5+
1998 08 17	704	0.4-	0.0	1999 11 17	704	0.2-	0.5-	2000 01 06	704	0.2+	0.5+
1998 08 17	704	0.3+	0.2+	1999 12 03	888	0.1-	0.1-				

(14439)* 1992 RE₂ = 1998 XN₃₆

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33482)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	89.77407		(2000.0)		P		Q
n	0.19608225	ω	88.82860		+0.22324403		-0.97475270
a	2.9343406	Ω	348.26898		+0.88552198		+0.20468602
e	0.0793939	i	1.23707		+0.40744684		+0.08922330
P	5.03	H	13.5	G	0.15	U	1
Residuals in seconds of arc							
1992 09 02	809 (1.4+ 2.2+)		2000 01 11	699	0.0	0.1-	2000 03 30 703 0.2- 0.1+
1992 09 02	809 0.4- 1.9+		2000 02 27	703	0.2-	0.3+	2000 03 30 703 0.4- 0.5-
1992 09 02	809 0.7- 1.1+		2000 02 27	703	0.3+	0.3-	2000 03 30 703 0.8- 0.8-
1992 09 03	809 0.9- 0.9-		2000 02 27	703	0.2-	0.1+	2000 04 04 704 0.3- 0.5-
1992 09 22	809 (2.1+ 2.6-)		2000 02 27	703	0.0	0.1-	2000 04 04 704 0.2- 0.3+
1992 09 22	809 1.0+ 1.6-		2000 02 29	704	1.0+	1.4+	2000 04 04 704 0.2+ 0.4-
1992 09 22	809 (1.2+ 2.6-)		2000 02 29	704	0.5+	0.3+	2000 04 04 704 0.5- 0.1-
1992 09 23	809 (1.3+ 2.2-)		2000 02 29	704	0.2-	0.0	2000 04 04 704 0.1- 0.3-
1992 09 23	809 1.8+ 1.5-		2000 03 08	704	0.9+	0.3-	2000 04 05 704 0.1+ 0.1-
1992 09 23	809 1.5+ 1.4-		2000 03 08	704 (0.7+ 2.2+)			2000 04 05 704 0.1- 0.1-
1994 01 17	010 0.3- 0.9-		2000 03 08	704	0.6+	0.2+	2000 04 05 704 0.0 0.3+
1994 01 17	010 0.7- 0.6-		2000 03 08	704	0.7+	0.4+	2000 04 05 704 0.2+ 0.0
1997 08 30	566 0.6- 0.0		2000 03 08	704	0.9+	0.7+	2000 04 05 704 0.1+ 0.0
1997 08 30	566 0.2- 0.3+		2000 03 10	704	0.4+	0.4-	2000 04 06 704 0.3- 0.3-
1997 08 30	566 1.0- 0.4+		2000 03 10	704	0.5-	0.2-	2000 04 06 704 0.0 0.1+
1998 12 14	704 0.9- 0.1-		2000 03 10	704	0.2-	0.2+	2000 04 06 704 0.1- 0.1-
1998 12 14	704 0.2- 0.1-		2000 03 10	704	0.2+	0.2-	2000 04 06 704 0.1- 0.1+
1998 12 14	704 0.2- 0.2+		2000 03 10	704	0.4-	0.1-	2000 04 07 699 0.1+ 0.1+
1998 12 14	704 0.5+ 0.7-		2000 03 11	704	0.7+	0.4-	2000 04 07 699 0.3+ 0.2+
1998 12 14	704 0.9- 0.4+		2000 03 11	704	0.3-	0.1+	2000 04 07 699 0.2- 0.0
1998 12 16	704 0.7- 0.2-		2000 03 11	704	0.3+	0.3+	2000 04 07 699 0.1+ 0.2-
1998 12 16	704 1.0+ 0.2+		2000 03 11	704	0.6+	0.2+	2000 04 08 704 0.2+ 0.1-
1998 12 16	704 0.7+ 0.5+		2000 03 14	703	0.2-	0.6-	2000 04 08 704 0.3- 0.1+
1998 12 16	704 0.4+ 1.0+		2000 03 14	703	0.1-	0.4-	2000 04 08 704 0.7+ 0.4+
1998 12 17	704 0.1+ 0.1+		2000 03 14	703	0.3-	0.5-	2000 04 08 704 0.2+ 0.1+
1998 12 17	704 0.9+ 0.1+		2000 03 14	703	0.2+	0.0	2000 04 08 704 0.5- 1.0+
1998 12 17	704 0.5- 0.3-		2000 03 26	699	0.1-	0.3-	2000 04 13 691 0.5- 0.2-
1998 12 17	704 0.1- 0.3+		2000 03 26	699	0.4-	0.1-	2000 04 13 691 0.6- 0.4-
1998 12 17	704 1.0+ 0.4-		2000 03 26	699	0.8-	0.0	2000 04 13 691 0.5- 0.3-
2000 01 11	699 1.6- 1.0+		2000 03 26	699	0.2-	0.2-	
2000 01 11	699 0.1- 0.3-		2000 03 30	703	0.8+	0.1-	

(14440)* 1992 RF₅ = 1997 SQ₁

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30872)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	226.19987		(2000.0)		P		Q	
n	0.20739726	ω	149.95093		+0.80177438		+0.59761234	
a	2.8266196	Ω	173.34536		-0.55522051		+0.74744192	
e	0.0467987	i	2.05922		-0.22110637		+0.29015526	
P	4.75	H	13.7		G	0.15	U	1

Residuals in seconds of arc

1992 09 02	809	1.3+	0.5+	1999 01 11	120	0.6-	0.1+	2000 04 01	691	0.2-	0.5-
1992 09 02	809	1.0+	0.3+	1999 01 11	120	0.2-	0.2-	2000 04 01	691	0.2-	0.4-
1992 09 02	809	0.5+	0.0	1999 01 11	120	0.2-	0.3-	2000 04 02	699	0.2-	0.1-
1992 09 03	809	0.1-	1.0-	1999 01 13	120	0.8-	0.3-	2000 04 02	699	0.6+	0.3-
1992 10 04	691	1.0-	0.3+	1999 01 13	120	0.9-	0.1+	2000 04 02	699	0.1-	0.2+
1992 10 04	691	0.9-	0.2+	1999 01 20	704	0.3+	1.2-	2000 04 02	699	0.1-	0.2-
1992 10 04	691	1.1-	0.1-	1999 01 20	704	0.9+	0.2+	2000 04 03	691	0.1-	0.3+
1997 09 22	595	0.4+	0.1+	1999 01 20	704	0.1+	1.9-	2000 04 03	691	0.2-	0.2+
1997 09 23	595	1.0-	0.3+	1999 01 20	704	1.4+	0.3+	2000 04 03	691	0.1-	0.1+
1997 09 23	595	0.3-	0.1+	1999 01 21	120	1.7-	0.1-	2000 04 05	704	0.2+	0.5+
1997 09 23	595	0.5+	0.8+	1999 01 21	120	0.3-	0.5+	2000 04 05	704	0.6+	0.2-
1997 09 29	595	0.7-	0.6+	1999 01 21	120	0.1-	0.1+	2000 04 05	704	0.8+	0.3-
1997 09 29	595	0.3-	0.9+	1999 01 23	120	2.0-	0.4+	2000 04 05	704	1.0+	0.2-
1997 10 30	704	1.3+	0.5-	1999 01 23	120	0.2+	0.6-	2000 04 05	704	0.7-	0.1+
1997 10 30	704	1.8+	0.7+	2000 03 04	703	0.9-	1.6-	2000 04 06	699	0.2-	0.1+

2000 APR. 18

M.P.C. 39831

1997 10 30	704	0.1+	0.1+	2000 03 04	703	0.2-	0.9+	2000 04 06	704	0.3+	0.3+
1997 10 30	704	0.4+	0.4-	2000 03 04	703	0.2-	0.1-	2000 04 06	704	0.5-	0.3-
1997 10 30	704	0.2-	1.0-	2000 03 04	703	0.1-	0.3-	2000 04 06	699	0.4-	0.3+
1997 11 01	595	0.9-	0.6+	2000 03 09	704	0.3-	0.1+	2000 04 06	704	0.5+	0.3-
1997 11 02	595	0.2-	0.5+	2000 03 09	704	0.1+	0.1+	2000 04 06	699	0.4-	0.1+
1997 11 02	595	1.5-	0.9+	2000 03 09	704	0.3+	0.1-	2000 04 06	704	0.0	0.4-
1997 11 02	595	0.6-	0.2+	2000 03 09	704	0.3-	0.6+	2000 04 06	699	0.3-	0.0
1997 11 02	595	0.5-	0.1+	2000 03 09	704	0.1-	0.4+	2000 04 06	704	0.1-	0.5-
1998 12 15	704	(0.6-	2.1+)	2000 03 10	704	1.0+	0.4+	2000 04 07	691	0.2-	0.5-
1998 12 15	704	0.2+	1.2+	2000 03 10	704	0.7+	0.9+	2000 04 07	691	0.5-	0.2-
1998 12 15	704	1.7+	0.3+	2000 03 10	704	0.7+	0.6+	2000 04 07	691	0.6-	0.2-
1998 12 15	704	1.5+	1.2+	2000 03 10	704	0.2-	0.3+	2000 04 10	704	0.1+	0.4-
1998 12 22	704	(2.8-	0.9+)	2000 03 10	704	0.5+	0.2+	2000 04 10	704	0.1-	0.2+
1998 12 22	704	0.2-	0.8+	2000 03 10	704	0.7+	0.7+	2000 04 10	704	1.0+	0.1+
1998 12 22	704	0.8+	1.2-	2000 03 10	704	0.0	0.5+	2000 04 10	704	0.5-	0.0
1998 12 22	704	1.1-	0.1-	2000 03 10	704	0.3+	0.1+	2000 04 10	704	0.1+	0.1-
1999 01 06	120	0.8+	0.6-	2000 03 10	704	0.1+	0.7+	2000 04 10	704	0.5+	0.2+
1999 01 06	120	1.4+	0.5+	2000 03 27	699	0.3-	0.6+	2000 04 10	704	0.1+	0.1+
1999 01 06	120	0.1-	0.2-	2000 03 27	699	0.3-	0.7+	2000 04 10	704	0.2+	0.3-
1999 01 06	120	0.1+	0.3-	2000 03 27	699	0.1-	1.4+	2000 04 10	704	0.2+	0.1+
1999 01 09	120	0.2+	0.1+	2000 03 27	699	0.1-	0.5+				
1999 01 09	120	1.2-	0.5+	2000 04 01	691	0.1-	0.4-				

(14441)* 1992 SJ = 1983 TN₂

Discovered 1992 Sept. 21 by M. Yanai and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 24897)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		257.49126		(2000.0)		P		Q	
<i>n</i>		0.21836497	ω	317.81481	+0.77481819	+0.63213286			
<i>a</i>		2.7311616	Ω	3.01153	-0.53134551	+0.65807584			
<i>e</i>		0.2818931	<i>i</i>	8.81521	-0.34253280	+0.40907730			
<i>P</i>		4.51	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1983 10 04	688	(3.1+	1.1-)	1997 12 06	704	0.8+	1.5+	2000 03 30	704	0.4+	1.0+
1983 10 04	688	(2.7+	0.9-)	1997 12 06	704	1.2-	0.6+	2000 04 06	699	0.3-	0.0
1992 09 21	400	1.3+	0.7+	1997 12 06	704	0.5+	0.8+	2000 04 06	699	0.3-	0.1-
1992 09 21	400	1.5-	0.4+	1999 02 10	704	1.0-	0.8-	2000 04 06	699	0.1-	0.0
1992 09 23	400	2.1+	0.9-	1999 02 10	704	0.7+	0.3+	2000 04 06	699	0.4-	0.1-
1992 09 23	400	1.1-	1.5+	1999 02 10	704	0.5-	1.5+	2000 04 07	704	0.6+	0.7+
1992 09 28	400	1.5-	0.9+	1999 02 10	704	1.4+	0.4-	2000 04 07	704	0.5+	0.3+
1992 09 28	400	0.7-	0.6+	1999 02 11	704	1.4-	0.4+	2000 04 07	704	0.7+	0.6+
1992 09 30	400	0.6-	0.3-	1999 02 11	704	1.6+	0.0	2000 04 07	704	0.2+	0.7+
1992 09 30	400	0.2-	1.6+	1999 02 11	704	1.6-	0.6+	2000 04 07	704	0.3+	0.1-
1992 10 01	400	0.8-	1.0+	1999 02 11	704	0.7-	0.2-	2000 04 08	704	0.5+	0.3+
1992 10 01	400	1.1-	0.5+	1999 02 11	704	0.1-	1.2+	2000 04 08	704	0.7+	0.4+
1992 10 02	400	0.4-	0.0	1999 02 11	704	0.5+	0.2+	2000 04 08	704	0.3+	0.6+
1992 10 02	400	2.1-	1.0+	1999 02 11	704	0.4-	1.3-	2000 04 08	704	0.7+	0.5+
1992 10 18	400	1.5+	0.9-	2000 03 04	703	0.2+	0.3+	2000 04 08	704	0.3+	0.4+
1992 10 18	400	1.8+	0.8-	2000 03 04	703	0.4+	0.3+	2000 04 10	704	0.4+	0.5-
1995 02 20	411	0.3+	0.1-	2000 03 04	703	0.4+	0.1+	2000 04 10	704	0.2+	0.3+
1995 02 20	411	0.4-	0.3-	2000 03 04	703	0.1+	0.2-	2000 04 10	704	0.1+	0.4+
1995 02 21	411	0.4-	1.2-	2000 03 30	704	0.2+	0.4+	2000 04 10	704	0.4+	0.4+
1995 02 21	411	0.4-	1.7-	2000 03 30	704	0.2-	0.9+	2000 04 10	704	0.4+	0.3+
1997 12 06	704	1.0-	1.1-	2000 03 30	704	0.0	0.9+				
1997 12 06	704	1.2+	1.7+	2000 03 30	704	0.2-	1.6+				

(14442)* 1992 SR₂₅ = 1997 SR₁₈

Discovered 1992 Sept. 30 by H. E. Holt at Palomar.

Id. A. Doppler (*MPC* 33483)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		124.34672		(2000.0)		P		Q	
<i>n</i>		0.19134223	ω	52.95326	+0.66454073	-0.74712063			
<i>a</i>		2.9826033	Ω	355.32531	+0.61933802	+0.56118103			
<i>e</i>		0.1101259	<i>i</i>	9.90108	+0.41809811	+0.35621147			
<i>P</i>		5.15	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1992 09 30	675	0.5-	0.7+	1998 12 24	699	0.5-	0.4+	2000 03 11	704	0.3+	0.1-
1992 09 30	675	0.5-	0.5-	1998 12 24	699	0.5+	0.5+	2000 03 11	704	0.4+	0.5+
1992 10 02	691	0.4+	0.4+	1998 12 24	699	0.0	0.4+	2000 03 11	704	0.3-	0.0
1992 10 02	691	0.0	0.4+	1999 01 16	704	0.5+	0.1-	2000 03 11	704	0.1-	0.0
1992 10 02	691	0.1-	0.9+	1999 01 16	704	1.1+	0.3-	2000 03 11	704	1.1-	0.4+
1992 10 03	675	0.1-	0.4-	1999 01 16	704	0.7+	0.9-	2000 03 26	699	0.2-	0.3+
1992 10 03	675	0.4-	0.4+	1999 01 16	704	1.0+	0.8-	2000 03 26	699	0.1-	0.1-
1997 09 28	691	0.2-	0.7+	1999 01 19	704	1.5-	0.5+	2000 03 26	699	0.2-	0.3+
1997 09 28	691	0.2-	0.7+	1999 01 19	704	0.2-	0.1+	2000 03 26	699	0.4-	0.2+
1997 09 28	691	0.2-	0.8+	1999 01 19	704	0.9+	0.1-	2000 04 07	699	0.1-	0.1+
1997 10 03	691	0.3-	0.7+	1999 01 19	704	0.9-	0.4-	2000 04 07	699	0.5+	0.2+
1997 10 03	691	0.4-	0.9+	1999 01 19	704	0.9+	1.7+	2000 04 07	699	0.0	0.0
1997 10 03	691	0.2-	0.7+	2000 03 03	703	0.4-	0.5-	2000 04 07	704	0.3+	0.3+
1997 10 09	691	0.7-	0.5+	2000 03 03	703	0.4+	0.4+	2000 04 07	699	0.4+	0.2+
1997 10 09	691	0.8-	0.4+	2000 03 03	703	0.2+	0.6-	2000 04 07	704	0.4+	0.1-
1997 10 09	691	0.7-	0.3+	2000 03 03	703	0.3+	0.1-	2000 04 07	704	0.1+	0.9+
1998 11 21	699	0.5+	0.0	2000 03 06	608	0.8-	0.8+	2000 04 07	704	0.1-	0.8+
1998 11 21	699	0.3-	0.7+	2000 03 06	608	0.1+	0.1-	2000 04 07	704	0.5+	0.9-
1998 11 21	699	0.3-	0.4+	2000 03 06	608	0.3-	0.3+	2000 04 08	704	0.2+	0.1+
1998 12 14	704	0.1+	0.1+	2000 03 09	704	0.9+	0.1-	2000 04 08	704	0.1-	0.8+
1998 12 14	704	0.3+	0.4+	2000 03 09	704	0.7+	0.2-	2000 04 08	704	0.3+	0.1+
1998 12 14	704	1.3-	1.1+	2000 03 09	704	0.9+	0.1-	2000 04 08	704	0.4+	0.9+
1998 12 14	704	0.9+	0.4+	2000 03 09	704	0.6+	1.2+	2000 04 08	704	0.5-	0.5+
1998 12 14	704	1.0-	1.0+	2000 03 09	704	0.8+	0.4+	2000 04 10	704	0.5+	0.4-
1998 12 17	704	0.0	0.3-	2000 03 10	704	0.7+	0.0	2000 04 10	704	0.3+	0.2-
1998 12 17	704	0.5-	0.9-	2000 03 10	704	0.5-	0.6+	2000 04 10	704	0.3-	0.6-
1998 12 17	704	0.1-	1.4-	2000 03 10	704	0.7+	0.3+	2000 04 10	704	0.0	0.3+
1998 12 17	704	0.6-	0.7-	2000 03 10	704	0.2+	0.1+				
1998 12 17	704	(2.1-	0.9-)	2000 03 10	704	0.1-	0.9+				

(14443)* 1992 TV = 1982 QF = 1987 ST₁₈ = 1990 FM₄ = 1998 YJ₈

Discovered 1992 Oct. 1 by M. Yanai and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 33483)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>		187.50952		(2000.0)		P		Q	
<i>n</i>		0.20201206	ω	170.79173	+0.98868749	-0.14968635			
<i>a</i>		2.8766334	Ω	197.82552	+0.13555310	+0.91894469			
<i>e</i>		0.0759095	<i>i</i>	1.78617	+0.06420592	+0.36487621			
<i>P</i>		4.88	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1982 08 19	046	(0.2+	4.1-)	1998 12 28	411	0.4+	0.6-	1999 02 23	699	0.0	0.3-
1982 08 19	046	1.4-	1.6-	1998 12 28	411	0.3+	1.3-	1999 02 23	699	0.4-	0.1+
1987 09 16	095	(3.0+	1.4-)	1999 01 10	699	0.4-	0.5-	2000 03 14	703	0.5-	1.4+
1990 03 27	675	(2.8+	4.6-)	1999 01 10	699	0.3+	1.0+	2000 03 14	703	0.0	0.5+
1990 03 27	675	(2.5+	4.5-)	1999 01 10	699	0.5-	0.1+	2000 03 14	703	0.5+	0.5+
1992 10 01	691	0.3-	0.6+	1999 01 11	120	0.5-	0.2-	2000 03 14	703	0.3-	0.2+
1992 10 01	691	0.5-	0.5+	1999 01 13	120	0.6-	0.3+	2000 04 04	699	0.4-	0.1+

1997 10 30	704	0.2−	0.8+	1999 01 20	704	0.1+	0.2+	2000 04 06	704	0.1−	0.2−
1997 10 30	704	0.2−	0.1+	1999 01 20	704	0.4+	0.2−	2000 04 06	704	0.1−	0.1−
1997 10 30	704	1.1−	0.5+	1999 01 20	704	0.9−	0.7+	2000 04 06	704	0.3−	0.0
1997 10 30	704	0.5+	0.2+	1999 01 20	704	1.1−	1.7+	2000 04 07	704	0.2+	0.2−
1997 10 30	704	0.5−	0.7+	1999 02 11	699	2.1+	0.5−	2000 04 07	704	0.2+	0.7+
1998 11 16	699	0.8+	0.6+	1999 02 11	699	0.0	1.6+	2000 04 07	704	0.2+	0.2+
1998 11 16	699	0.2−	0.2+	1999 02 11	699	1.1−	0.2+	2000 04 07	704	0.4+	0.7+
1998 11 16	699	0.0	0.4−	1999 02 12	704	0.2+	0.1−	2000 04 07	704	0.1−	0.3+
1998 11 23	699	0.9−	1.0+	1999 02 12	704	0.8+	1.0−	2000 04 08	704	0.0	0.3+
1998 11 23	699	0.4+	1.2+	1999 02 12	704	0.6+	0.0	2000 04 08	704	0.2+	0.3−
1998 11 23	699	0.6−	0.6+	1999 02 12	704	1.3+	1.7−	2000 04 08	704	0.2−	0.4+
1998 12 16	327	0.0	0.0	1999 02 12	704	0.4+	0.8−	2000 04 08	704	0.0	0.1+
1998 12 16	327	0.3+	0.2+	1999 02 16	704	0.3+	1.3−	2000 04 08	704	0.1+	0.3+
1998 12 16	327	0.1+	0.4+	1999 02 16	704	1.2−	0.3−	2000 04 10	704	0.3+	0.5+
1998 12 24	411	0.6−	0.9−	1999 02 16	704	0.0	0.8+	2000 04 10	704	0.8+	0.1+
1998 12 24	411	0.4+	0.5−	1999 02 16	704	0.5−	0.4−	2000 04 10	704	0.4+	1.0+
1998 12 25	411	0.5+	0.2+	1999 02 16	704	0.8−	1.0−	2000 04 10	704	0.5+	0.6+
1998 12 25	411	0.1+	0.0	1999 02 23	699	0.4+	0.6+	2000 04 10	704	0.0	0.2+

(14444)* 1992 TG₁ = 1985 TP₂ = 1998 HA₁₈ = 1999 XU₁₂₁ = 2000 AX₉

Discovered 1992 Oct. 2 by A. Sugie at the Dynic Astronomical Observatory.

Id. S. Nakano (*MPC* 39152)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28635121	ω	326.34955	+0.68224286	+0.73070442		
<i>a</i>	2.2796598	Ω	346.61173	−0.64495712	+0.58550388		
<i>e</i>	0.1890735	<i>i</i>	6.15196	−0.34434720	+0.35107871		
<i>P</i>	3.44	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 10 14	010	0.3−	0.3+	1998 04 20	704	1.5+	0.6−	1999 11 13	703	0.3−	0.3+
1985 10 15	010	(6.0−	1.8−)	1998 04 20	704	0.0	0.2−	1999 11 13	703	0.7−	0.7+
1992 09 26	402	0.0	1.3−	1998 04 22	704	0.4+	0.1−	1999 11 13	703	0.2−	0.2−
1992 09 26	402	1.6+	0.6+	1998 04 22	704	0.9+	0.2+	1999 12 07	703	0.2+	0.0
1992 09 27	402	0.4−	1.3−	1998 04 22	704	0.7+	0.2−	1999 12 07	703	0.2−	0.3+
1992 09 27	402	0.1−	0.1−	1998 04 22	704	1.7+	0.1+	1999 12 07	703	0.4+	0.3−
1992 10 02	402	(3.9−	1.5−)	1998 04 22	704	0.4+	0.6−	1999 12 07	703	0.1+	0.3+
1992 10 02	402	0.2+	0.4−	1999 10 12	704	0.7+	0.1−	1999 12 08	704	0.6+	0.2−
1998 03 24	699	0.4+	0.2+	1999 10 12	704	0.1+	0.1+	1999 12 08	704	0.4+	0.4−
1998 03 24	699	0.5−	0.1−	1999 10 12	704	0.0	0.3+	1999 12 08	704	0.8+	0.2−
1998 03 24	699	0.1−	0.0	1999 10 12	704	0.1−	0.0	1999 12 08	704	1.2+	0.2+
1998 03 25	704	0.7−	0.4−	1999 10 12	704	0.1−	0.4+	1999 12 08	704	0.0	0.5−
1998 03 25	704	0.6−	0.7+	1999 10 13	704	0.1+	0.1−	1999 12 13	703	0.0	0.4+
1998 03 25	704	1.8−	1.0−	1999 10 13	704	0.2−	0.0	1999 12 13	703	0.0	0.0
1998 03 25	704	0.8−	0.3−	1999 10 13	704	0.0	0.3+	1999 12 13	703	0.2−	0.4−
1998 03 25	704	1.6−	0.7−	1999 10 13	704	0.0	0.5+	1999 12 13	703	0.3−	1.2−
1998 04 01	704	0.6−	0.1+	1999 10 13	704	0.4+	1.1+	2000 01 03	704	1.6−	1.2−
1998 04 01	704	0.1−	0.2+	1999 10 15	699	0.4−	0.5+	2000 01 03	704	0.6−	0.7+
1998 04 01	704	0.7−	0.1−	1999 10 15	699	0.5−	0.8+	2000 01 03	704	0.1−	0.9−
1998 04 01	704	0.1−	0.3+	1999 10 15	699	0.7+	0.0	2000 01 03	704	1.1−	0.1+
1998 04 01	704	0.3−	1.0−	1999 10 21	699	0.6−	0.0	2000 01 04	704	0.2−	0.1−
1998 04 18	704	1.0+	0.9−	1999 10 21	699	0.4+	0.6+	2000 01 04	704	0.1+	0.3−
1998 04 18	704	1.4−	1.8+	1999 10 21	699	0.2+	0.9+	2000 01 04	704	0.5+	0.2−
1998 04 18	704	0.3−	0.7+	1999 10 30	699	0.0	0.4+	2000 01 04	704	0.0	0.6−
1998 04 18	704	0.7+	0.5+	1999 10 30	699	0.2−	0.5+	2000 01 04	704	1.0+	0.9+
1998 04 19	704	0.6+	0.5+	1999 10 30	699	0.2+	0.2+	2000 01 31	704	0.1−	0.3−
1998 04 19	704	0.3+	0.9+	1999 11 03	704	0.1−	0.1−	2000 01 31	704	0.4+	0.5+
1998 04 19	704	0.5+	0.1+	1999 11 03	704	0.1−	0.3−	2000 01 31	704	0.0	0.1−
1998 04 19	704	0.4+	0.7+	1999 11 03	704	0.0	0.7−	2000 01 31	704	0.4−	0.6+
1998 04 20	704	(2.8+	3.7+)	1999 11 03	704	0.3−	0.4−	2000 01 31	704	0.0	0.3+
1998 04 20	704	0.2+	0.3−	1999 11 03	704	0.5−	0.7−				
1998 04 20	704	0.3+	0.1−	1999 11 13	703	0.4−	0.4+				

(14445)* 1992 UZ₃ = 1971 TR = 1976 SB₁

Discovered 1992 Oct. 26 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 21275)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18857542	ω	359.81344	+0.98119456	−0.19285624		
<i>a</i>	3.0117066	Ω	11.31557	+0.17714625	+0.88330375		
<i>e</i>	0.2163202	<i>i</i>	2.33130	+0.07665794	+0.42729493		
<i>P</i>	5.23	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 10 10	095	1.3+	2.0−	1998 12 30	327	0.2+	0.9−	2000 04 04	704	1.5+	0.1−
1976 09 24	095	0.3−	1.0+	1999 02 10	704	0.4−	0.7+	2000 04 04	704	0.5+	0.5+
1976 09 25	095	0.3−	1.0+	1999 02 10	704	0.5+	1.8−	2000 04 04	704	0.6−	0.5−
1992 10 21	675	0.5+	0.2+	1999 02 10	704	0.3−	0.2+	2000 04 05	704	0.7+	1.2+
1992 10 21	675	1.1+	0.4+	1999 02 10	704	1.0−	0.5+	2000 04 05	704	0.3−	0.6+
1992 10 26	400	0.4−	0.2+	1999 02 10	704	0.2−	0.9−	2000 04 05	704	0.6+	0.6+
1992 10 26	400	0.0	0.4+	2000 03 03	104	0.4+	0.7−	2000 04 05	704	0.3−	0.6+
1992 10 28	400	1.1−	0.9+	2000 03 03	104	0.5+	0.6+	2000 04 05	704	0.2−	1.2+
1992 10 28	400	0.9−	0.6−	2000 03 08	704	0.6+	0.6+	2000 04 06	704	0.8+	0.6+
1992 10 28	399	1.4−	0.7+	2000 03 08	704	0.7+	0.6+	2000 04 06	704	0.1−	0.3+
1992 10 28	399	1.2−	0.4+	2000 03 08	704	0.6−	0.7−	2000 04 06	704	0.5+	0.2+
1992 11 16	400	(2.3+	1.0+)	2000 03 11	704	0.2+	0.3+	2000 04 06	704	0.1+	0.4+
1992 11 16	400	1.2−	0.2+	2000 03 11	704	0.3+	0.1+	2000 04 07	699	0.1+	0.2+
1992 11 27	675	0.3+	0.8+	2000 03 11	704	0.1+	0.3−	2000 04 07	699	0.3−	0.2+
1992 11 27	675	0.6−	0.7+	2000 03 11	704	0.2−	0.1+	2000 04 07	699	0.6+	0.5+
1997 12 26	566	0.5+	0.9+	2000 03 11	704	0.3−	1.4−	2000 04 07	699	0.3−	0.1+
1997 12 26	566	0.7+	0.7+	2000 03 12	691	0.6−	0.5−	2000 04 10	704	0.3−	0.2+
1997 12 26	566	0.8+	0.9+	2000 03 12	691	0.3−	0.6−	2000 04 10	704	0.0	0.4+
1998 12 21	704	(0.7+	2.7−)	2000 03 12	691	0.4−	0.4−	2000 04 10	704	0.5+	0.2+
1998 12 21	704	1.1+	1.3−	2000 03 26	699	0.4−	0.3+	2000 04 10	704	0.1−	0.4−
1998 12 21	704	0.5+	0.3−	2000 03 26	699	0.5−	0.3+	2000 04 10	704	0.1+	0.3+
1998 12 30	327	0.3+	0.0	2000 03 26	699	0.0	1.1+				
1998 12 30	327	0.5+	0.6−	2000 03 26	699	0.5−	0.3+				

(14446)* 1992 UP₆ = 1982 VB₁₃ = 1982 YE₂ = 1987 UB₉

Discovered 1992 Oct. 31 by M. Mukai and M. Takeishi at YCPM Kagoshima Station.

Id. S. Nakano (*MPC* 21277)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19209894	ω	154.47357	+0.96717879	−0.21306406		
<i>a</i>	2.9747655	Ω	218.65199	+0.17803165	+0.95699500		
<i>e</i>	0.1605808	<i>i</i>	12.80707	+0.18130064	+0.19688644		
<i>P</i>	5.13	<i>H</i>	12.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 11 14	095	(1.0−	4.5−)	1998 01 25	566	0.1+	0.3−	2000 03 14	704	0.3+	0.5+
1982 12 21	095	(2.1+	3.4−)	1998 01 25	566	0.5+	1.0−	2000 03 27	699	0.2−	0.1+
1987 10 23	095	(3.0+	4.1−)	1998 11 04	327	0.1−	0.4+	2000 03 27	699	0.3+	0.6+
1992 10 21	675	0.3−	0.0	1998 11 04	327	0.0	0.6+	2000 03 27	699	0.0	0.2+
1992 10 21	675	0.1+	0.7+	1998 11 04	327	0.2+	0.1−	2000 03 27	699	0.1−	0.2+
1992 10 31	364	0.8+	1.4−	1999 01 15	699	0.7−	0.1−	2000 03 30	704	0.9+	1.0+
1992 10 31	364	1.8+	0.2+	1999 01 15	699	1.0−	0.2−	2000 03 30	704	0.4+	0.4+
1992 11 01	364	(2.6+	3.1−)	1999 01 15	699	0.7−	0.3+	2000 03 30	704	1.0−	0.4+
1992 11 01	364	(1.7+	2.2−)	1999 02 12	704	0.6−	1.0−	2000 03 30	704	0.3+	0.1+
1992 11 03	095	0.7+	1.2+	1999 02 12	704	0.8+	0.8−	2000 03 30	704	0.8−	0.2+
1992 11 18	691	1.1−	0.7+	1999 02 12	704	(1.6−	3.3−)	2000 04 06	699	0.3−	0.2+
1992 11 18	691	1.1−	0.6+	1999 02 12	704	1.9−	0.8−	2000 04 06	699	0.2−	0.5+
1992 11 18	691	1.0−	0.2+	1999 02 12	704	0.1+	0.2−	2000 04 06	699	0.0	0.2+
1992 11 21	364	(2.3−	3.3+)	1999 02 16	704	0.1−	1.3−	2000 04 06	699	0.1−	0.2+
1992 11 21	364	(0.0	2.6+)	1999 02 16	704	0.6+	1.6−	2000 04 07	704	0.0	0.3+
1992 11 23	364	(4.0+	1.8+)	1999 02 16	704	0.4+	1.3−	2000 04 07	704	0.2+	0.5+
1992 11 23	364	0.1+	1.5+	1999 02 16	704	(0.9+	2.4−)	2000 04 07	704	0.1−	0.5+
1992 11 24	364	0.5+	0.7+	1999 02 16	704	0.8+	1.7−	2000 04 07	704	0.2+	0.4+
1992 11 24	364	1.6+	0.8+	1999 02 21	699	1.0+	0.3+	2000 04 07	704	0.1+	0.6+
1992 11 27	675	1.1−	1.7+	1999 02 21	699	0.7+	0.3+	2000 04 08	704	0.0	0.4+
1992 11 27	675	1.1−	2.0+	1999 02 21	699	0.4+	0.4+	2000 04 08	704	0.1−	0.4+

2000 APR. 18

M.P.C. 39833

1992 11 30	675	0.4-	0.5-	1999 05 07	704	0.7+	0.2+	2000 04 08	704	0.0	0.9+
1992 11 30	675	0.3-	0.6+	1999 05 07	704	1.1-	0.1-	2000 04 08	704	0.5+	1.0+
1997 10 23	367	0.9+	1.1-	1999 05 07	704	0.4+	1.2+	2000 04 08	704	0.6+	1.0+
1997 10 23	367	0.9+	1.4+	1999 05 07	704	2.0-	0.6+	2000 04 10	704	0.3+	0.2+
1997 11 01	138	0.5-	0.4+	2000 03 14	704	0.1+	0.2-	2000 04 10	704	0.6+	0.7+
1997 11 01	138	1.1-	0.5+	2000 03 14	704	0.3+	0.4-	2000 04 10	704	0.1+	0.8+
1997 11 01	138	0.8-	0.3+	2000 03 14	704	0.0	0.8-	2000 04 10	704	0.0	0.3+
1998 01 25	566	0.3+	0.5-	2000 03 14	704	0.1-	0.2-	2000 04 10	704	0.1+	0.6+

(14447)* 1992 VL = 1999 CY₂₂

Discovered 1992 Nov. 2 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 33935)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	159.84675		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18829863	ω	262.00366	+0.96241265	-0.22738379
<i>a</i>	3.0146572	Ω	111.04211	+0.26562948	+0.90202350
<i>e</i>	0.3028848	<i>i</i>	9.15655	-0.05659397	+0.36694716
<i>P</i>	5.23	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1992 10 26	675	0.9+	0.7+	1999 01 19	704	0.6+	0.9+	2000 03 12	704	0.1-	0.1-
1992 10 26	675	0.9-	0.5+	1999 01 19	704	0.6-	0.6+	2000 03 12	704	0.9-	0.0
1992 11 02	400	1.0+	1.3-	1999 01 19	704	0.5+	0.9+	2000 03 12	704	0.5-	0.6-
1992 11 02	400	0.1-	0.6-	1999 02 10	704	0.8-	0.6-	2000 03 29	704	0.8+	0.7-
1992 11 17	400	0.1+	1.6+	1999 02 10	704	1.4+	0.7+	2000 03 29	704	0.7+	0.3+
1992 11 17	400	0.4-	0.7-	1999 02 10	704	0.3+	0.2+	2000 03 29	704	0.5+	0.9+
1992 11 27	400	1.1+	0.4-	1999 02 10	704	1.6-	0.2+	2000 03 29	704	0.5-	0.1+
1992 11 27	400	1.2-	1.2-	1999 02 13	704	0.4-	1.1+	2000 04 03	704	0.6+	0.5+
1997 09 29	566	0.4-	0.6+	1999 02 13	704	0.3-	0.3-	2000 04 03	704	0.3-	0.3-
1997 09 29	566	0.8-	1.1+	1999 02 13	704	0.6+	0.3-	2000 04 03	704	0.5-	0.1+
1997 09 29	566	0.2+	1.1+	1999 02 13	704	1.1+	0.3+	2000 04 03	704	0.4+	1.0+
1999 01 19	704	1.0-	1.4-	1999 02 13	704	0.3+	0.0	2000 04 03	704	0.3-	0.3-
1999 01 19	704	0.6+	0.3-	2000 03 12	704	0.1-	0.5+				

(14448)* 1992 VQ = 1981 UF₁₆ = 1998 YE₂₈

Discovered 1992 Nov. 2 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 22237), G. V. Williams (*MPC* 33683)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	119.68752		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18048168	ω	285.88510	+0.64578423	-0.76314420
<i>a</i>	3.1010871	Ω	123.86546	+0.71108880	+0.58971811
<i>e</i>	0.1794982	<i>i</i>	1.65290	+0.27805656	+0.26427916
<i>P</i>	5.46	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 10 24	095	(2.7-	2.4+)	1999 01 06	699	0.1+	0.4-	2000 03 11	704	0.2-	0.2+
1992 10 21	675	0.2-	1.2+	1999 01 06	699	0.1-	1.7+	2000 03 11	704	0.0	0.9+
1992 10 21	675	0.3+	1.2+	1999 01 18	704	0.3-	0.6-	2000 03 27	699	0.5-	0.4+
1992 10 21	675	0.3-	0.6+	1999 01 18	704	1.2-	0.7+	2000 03 27	699	0.0	0.0
1992 10 21	675	0.7+	1.2+	1999 01 18	704	0.3-	1.0+	2000 03 27	699	0.1-	0.7+
1992 10 28	400	0.3-	1.3+	1999 01 18	704	0.5-	0.7+	2000 03 27	699	0.7-	0.3+
1992 10 28	400	1.3-	0.9+	1999 01 18	704	0.1-	0.1+	2000 04 02	699	0.0	0.4+
1992 11 02	399	1.1-	0.9+	1999 01 21	120	0.3+	0.3-	2000 04 02	699	0.6+	0.3+
1992 11 02	399	0.4+	1.0+	1999 01 21	120	0.1+	0.4-	2000 04 02	699	0.6-	0.8+
1992 11 17	400	0.9+	1.2-	1999 01 22	120	0.4-	0.0	2000 04 02	699	0.4+	0.8+
1992 11 17	400	0.8-	0.5-	1999 01 22	120	0.1-	0.5-	2000 04 04	704	1.0-	0.2-
1992 11 20	691	0.0	0.4+	1999 01 22	120	0.1+	0.5-	2000 04 04	704	0.8+	0.7+
1992 11 20	691	0.1+	0.4+	1999 01 24	120	0.9+	1.0-	2000 04 04	704	0.6+	0.4-
1992 11 20	691	0.4+	0.2+	1999 01 24	120	0.0	0.7-	2000 04 04	704	0.4+	1.0-
1992 11 27	675	0.4-	0.2-	1999 02 10	704	1.2-	1.2-	2000 04 05	704	0.9+	0.2+
1992 11 27	675	0.5-	0.1+	1999 02 10	704	1.1+	0.2-	2000 04 05	704	0.1+	1.3+
1997 10 05	691	0.4-	1.3+	1999 02 10	704	1.7+	0.9+	2000 04 05	704	0.1+	0.1+
1997 10 05	691	0.4-	1.1+	1999 02 10	704	0.3-	0.1+	2000 04 05	704	0.4+	0.2+
1997 10 05	691	0.7-	1.3+	2000 03 01	703	0.6-	0.3+	2000 04 05	704	0.1+	0.0
1998 11 14	699	0.3+	1.6+	2000 03 01	703	(2.7-	2.3-)	2000 04 06	699	0.0	0.4+

1998 11 14	699	0.1+	0.5+	2000 03 01	703	0.1-	0.1+	2000 04 06	704	0.7+	0.0
1998 11 14	699	0.8+	0.3-	2000 03 01	703	0.7+	0.2-	2000 04 06	704	0.1+	0.4+
1998 12 22	704	0.1+	0.8-	2000 03 08	704	1.2-	0.1+	2000 04 06	699	0.1-	0.5+
1998 12 22	704	0.1+	0.8-	2000 03 08	704	0.2+	0.3+	2000 04 06	704	0.1+	0.3+
1998 12 22	704	0.3-	1.0-	2000 03 08	704	0.9+	1.1+	2000 04 06	699	0.4+	0.2+
1998 12 22	704	0.1+	0.8+	2000 03 08	704	0.6+	0.5+	2000 04 06	704	1.0-	0.3+
1998 12 22	704	0.2+	0.9-	2000 03 08	704	0.1+	0.7+	2000 04 06	704	0.6+	0.6+
1998 12 23	704	0.6+	1.4-	2000 03 10	704	0.1-	1.1-	2000 04 06	699	0.3-	0.3+
1998 12 23	704	0.2+	1.1-	2000 03 10	704	0.2+	0.1-	2000 04 10	704	0.5+	0.0
1998 12 23	704	0.1-	1.1+	2000 03 10	704	0.1-	0.3-	2000 04 10	704	1.0+	0.5+
1998 12 23	704	0.6-	0.0	2000 03 10	704	0.3+	0.6+	2000 04 10	704	0.1+	0.0
1998 12 23	704	1.4-	0.9-	2000 03 10	704	0.5-	0.1+	2000 04 10	704	0.3+	0.3+
1999 01 06	699	0.1+	0.4+	2000 03 11	704	0.2+	0.9-	2000 04 10	704	0.6+	1.1+

(14449)* 1992 WE₁ = 1978 TM₄ = 1978 VS₁₂ = 1999 XD₅₈

Discovered 1992 Nov. 16 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 37120)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	78.96347		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28441447	ω	263.84789	+0.98934291	+0.11785332
<i>a</i>	2.2899971	Ω	89.36124	-0.07463282	+0.91469460
<i>e</i>	0.2019849	<i>i</i>	4.90540	-0.12502215	+0.38658037
<i>P</i>	3.47	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1978 10 04	095	0.6-	0.3-	1998 05 24	704	(0.6+	2.3+)	1999 12 07	120	0.4-	0.1+
1978 11 02	095	(4.7-	0.7+)	1998 05 24	704	1.7+	0.2+	1999 12 07	120	0.3-	0.1+
1992 11 16	400	1.2+	1.4+	1998 05 24	704	0.1-	1.4-	1999 12 08	704	0.1+	0.3-
1992 11 16	400	1.1+	0.9+	1999 10 10	704	0.2-	0.3-	1999 12 08	704	0.2-	0.5-
1992 11 17	400	(2.2+	1.2+)	1999 10 10	704	0.7+	0.2+	1999 12 08	704	0.1+	0.1-
1992 11 17	400	1.2-	1.9+	1999 10 10	704	0.2-	0.2-	1999 12 08	704	0.1-	0.3-
1992 11 27	400	(4.2+	1.6+)	1999 10 10	704	0.8+	0.6+	1999 12 08	704	0.1-	0.1-
1992 11 27	400	(4.0+	0.1+)	1999 10 10	704	1.2+	0.7+	1999 12 10	704	0.3-	0.7-
1997 02 04	566	0.3-	0.3+	1999 11 04	704	0.5+	0.5+	1999 12 10	704	0.5+	0.6-
1997 02 04	566	0.4+	0.4+	1999 11 04	704	0.0	0.1-	1999 12 10	704	0.4-	0.5-
1997 02 04	566	0.5+	0.3+	1999 11 04	704	0.4-	0.3-	1999 12 10	704	0.6-	0.6-
1998 04 22	704	0.7-	0.0	1999 11 04	704	0.3-	0.1-	1999 12 17	120	0.0	0.1-
1998 04 22	704	0.4+	0.6+	1999 11 04	704	0.1+	0.2-	1999 12 17	120	0.4-	0.1-
1998 04 22	704	1.6-	0.1-	1999 11 15	704	0.1-	0.1+	2000 01 06	704	0.9+	0.7-
1998 04 22	704	0.5+	1.8+	1999 11 15	704	0.1+	0.3+	2000 01 06	704	0.2-	0.8-
1998 04 22	704	1.2-	0.7+	1999 11 15	704	0.0	0.3+	2000 01 06	704	0.1-	1.4-
1998 05 01	704	0.4+	0.5-	1999 11 15	704	0.1-	0.5+	2000 01 06	704	0.2-	1.4-
1998 05 01	704	0.4+	0.2+	1999 11 15	704	0.1-	0.7+	2000 01 06	704	0.6-	0.5-
1998 05 01	704	0.3-	0.8+	1999 11 17	704	0.2+	0.6+	2000 01 30	704	0.1-	0.2-
1998 05 01	704	0.6+	1.2+	1999 11 17	704	0.8+	1.4+	2000 01 30	704	0.6-	1.1+
1998 05 01	704	0.1+	0.6-	1999 11 17	704	0.9-	1.1+	2000 01 30	704	0.1+	0.4+
1998 05 22	704	1.1+	0.6+	1999 11 17	704	0.1-	0.4-	2000 01 30	704	(2.2-	1.4+)
1998 05 22	704	0.6-	0.7-	1999 11 17	704	0.4-	0.1-	2000 02 03	704	0.0	0.4+
1998 05 22	704	0.1-	0.5+	1999 12 07	704	0.2-	0.4-	2000 02 03	704	0.3-	0.2-
1998 05 22	704	0.5-	0.7-	1999 12 07	704	0.2-	0.4-	2000 02 03	704	0.8+	0.6+
1998 05 22	704	(4.5-	0.5+)	1999 12 07	704	0.3-	0.4-	2000 02 03	704	1.3+	0.1-
1998 05 24	704	(2.3+	1.7+)	1999 12 07	704	0.1-	0.1-				
1998 05 24	704	0.7+	0.2-	1999 12 07	704	0.2-	0.2-				

Residuals in seconds of arc

1992 10 25	675	1.7–	0.9+	1997 12 28	566	0.7+	1.3–	2000 03 09	704	0.9+	0.5+
1992 10 25	675	0.1–	2.0+	1998 12 17	699	0.3+	0.5–	2000 03 09	704	0.4+	0.0
1992 10 28	399	1.3–	0.1–	1998 12 17	699	0.8+	1.6–	2000 03 09	704	0.6+	0.0
1992 10 28	399	(3.2–	0.3–)	1998 12 17	699	0.9+	1.6–	2000 03 11	699	0.1+	0.3+
1992 11 02	399	0.8–	1.4+	1998 12 21	704	0.1+	0.5–	2000 03 11	699	0.3–	0.5+
1992 11 02	399	0.6+	0.2+	1998 12 21	704	1.7–	0.5+	2000 03 11	699	0.3–	0.3+
1992 11 18	399	0.7+	0.2+	1998 12 21	704	1.8–	0.3–	2000 03 11	699	0.1–	0.6+
1992 11 18	399	1.4+	0.0	1998 12 21	704	(1.7–	2.2–)	2000 03 29	704	0.7+	0.3+
1992 11 21	399	1.1–	0.6+	1998 12 21	704	1.7–	0.0	2000 03 29	704	0.1+	0.5+
1992 11 21	399	0.5–	1.2+	1999 01 19	704	0.3–	0.7–	2000 03 29	704	0.0	1.1+
1997 10 29	566	0.4–	0.4+	1999 01 19	704	0.3–	0.7–	2000 03 29	704	0.3+	0.6+
1997 10 29	566	0.3–	0.2+	1999 01 19	704	(1.1+	2.5+)	2000 03 29	704	0.3–	0.7+
1997 10 29	566	0.3–	0.4+	1999 01 19	704	0.6+	0.9+	2000 04 04	704	0.3+	0.4+
1997 10 30	704	0.2+	0.1+	1999 02 10	704	0.0	0.2–	2000 04 04	704	0.2+	0.7+
1997 10 30	704	0.1–	0.0	1999 02 10	704	1.0+	0.7+	2000 04 04	704	0.1+	1.0+
1997 10 30	704	0.4–	0.6+	1999 02 10	704	0.5+	0.2–	2000 04 04	704	0.3+	0.8+
1997 10 30	704	0.5–	0.3+	1999 02 10	704	0.7+	0.3+	2000 04 04	704	0.1+	0.7+
1997 10 30	704	0.7–	0.3+	1999 02 10	704	(0.5–	2.9+)	2000 04 08	704	0.5+	0.4+
1997 11 03	704	0.2+	0.4+	1999 02 12	699	0.7+	0.2–	2000 04 08	704	0.1+	0.2+
1997 11 03	704	0.2+	1.7+	1999 02 12	699	0.7+	0.4–	2000 04 08	704	0.2+	0.2–
1997 11 03	704	0.0	1.5+	1999 02 12	699	(2.4–	0.9–)	2000 04 08	704	0.8+	0.6–
1997 11 03	704	0.7–	0.2–	1999 02 13	704	1.3–	0.1–	2000 04 08	704	0.4–	0.1+
1997 12 06	910	0.5–	0.2+	1999 02 13	704	0.4+	1.5–	2000 04 10	704	0.1–	0.5+
1997 12 06	910	0.5–	0.1+	1999 02 13	704	0.8–	0.0	2000 04 10	704	0.1–	0.5+
1997 12 06	910	0.5–	0.1+	1999 02 13	704	(2.0+	1.3–)	2000 04 10	704	0.4–	0.4+
1997 12 28	566	0.7+	1.3–	2000 03 09	704	0.9+	0.3–	2000 04 10	704	0.4+	0.5–
1997 12 28	566	0.9+	1.1–	2000 03 09	704	0.6+	0.2–	2000 04 10	704	0.3+	0.4+

(14451)* 1992 WR₅ = 1976 YS₆ = 1999 BZ₂₄

Discovered 1992 Nov. 27 by S. Ueda and H. Kaneda at Kushiro.

Id. A. Doppler (*MPC* 33935)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	170.22004		(2000.0)	P	Q
n	0.18410877	ω	107.70165	+0.97242389	−0.16594135
a	3.0602229	Ω	262.09152	+0.09501779	+0.92359450
e	0.1410539	i	9.52333	+0.21298685	+0.34559609
P	5.35	H	12.3	G 0.15	U 1

Residuals in seconds of arc

1976 12 20	095	0.2+	0.9+	1998 01 27	566	0.2–	0.1–	2000 01 10	704	0.2+	0.6+
1992 11 27	399	1.4+	0.3+	1998 11 17	699	0.5–	0.7+	2000 01 10	704	0.4–	0.5+
1992 11 27	399	1.1–	0.2–	1998 11 17	699	0.1–	0.0	2000 01 10	704	0.2–	0.8+
1992 11 29	399	0.8–	0.6+	1998 11 17	699	0.0	0.0	2000 01 10	704	0.0	1.5+
1992 11 29	399	0.5–	0.6+	1998 12 23	704	0.7+	1.0–	2000 03 13	704	0.6+	0.3+
1992 12 15	399	0.2+	0.8+	1998 12 23	704	1.1+	0.9–	2000 03 13	704	0.4+	0.7+
1992 12 15	399	0.3–	1.2+	1998 12 23	704	0.2+	0.1–	2000 03 13	704	0.5+	0.3+
1997 10 30	566	0.6+	0.2–	1998 12 23	704	0.9+	0.8–	2000 03 13	704	0.5–	0.3+
1997 10 30	566	0.0	0.6+	1998 12 23	704	1.7–	1.4–	2000 04 07	704	0.1–	0.1–
1997 10 30	566	0.1+	0.0	1999 01 18	704	0.1+	0.8–	2000 04 07	704	0.3+	0.0
1997 10 30	566	0.0	0.5+	1999 01 18	704	(0.9–	2.2–)	2000 04 07	704	0.1–	0.2+
1997 10 30	566	0.5+	0.2–	1999 01 18	704	0.4+	0.6+	2000 04 07	704	0.2+	0.5+
1997 10 30	566	0.6+	0.1+	1999 01 18	704	0.1+	0.2–	2000 04 07	704	0.0	0.4+
1997 12 27	566	(3.0+	1.8–)	1999 01 20	704	0.3–	1.2–	2000 04 10	608	0.4+	0.2+
1997 12 27	566	(3.1+	1.9–)	1999 01 20	704	0.2–	0.4–	2000 04 10	608	0.4+	0.1–
1997 12 27	566	(2.9+	2.2–)	1999 01 20	704	1.1–	0.4+	2000 04 10	608	0.5+	0.0
1998 01 27	566	0.7–	0.1–	1999 01 20	704	0.7–	0.1–				
1998 01 27	566	0.6–	0.1+	2000 01 10	704	1.1–	0.3–				

(14452)* 1992 WB₉ = 1991 PO₆

Discovered 1992 Nov. 25 by H. E. Holt at Palomar.

Id. K. Ichikawa (*MPC* 22407)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	131.48207		(2000.0)	P	Q
n	0.18589473	ω	74.32746	+0.48183473	−0.87623138
a	3.0405909	Ω	346.85978	+0.79108507	+0.43858468
e	0.0807110	i	1.84997	+0.37685502	+0.19965480
P	5.30	H	13.4	G 0.15	U 1

Residuals in seconds of arc

1991 08 06	809	(2.5–	1.2+)	1999 01 19	704	0.7+	0.5–	2000 04 06	704	0.1+	0.4+
1991 08 06	809	1.2–	1.3+	1999 01 19	704	1.4–	1.1+	2000 04 06	704	0.2–	0.0
1991 08 06	809	1.7–	1.2+	1999 02 10	704	0.3+	0.0	2000 04 06	704	0.7–	0.1–
1991 08 14	809	0.8–	0.4–	1999 02 10	704	0.2+	0.9+	2000 04 07	691	0.4+	0.3–
1991 08 14	809	0.2+	0.1+	1999 02 10	704	0.3+	0.2+	2000 04 07	699	0.3+	0.2–
1991 08 14	809	1.1+	0.8+	1999 02 10	704	0.3–	0.4+	2000 04 07	699	0.4–	0.3+
1992 11 21	399	0.3–	0.5+	1999 02 10	704	0.5+	0.7+	2000 04 07	691	0.5+	0.5–
1992 11 21	399	0.2–	1.1+	1999 02 13	704	(2.2+	0.6–)	2000 04 07	704	0.1–	0.3–
1992 11 25	675	1.2+	0.4–	1999 02 13	704	0.9–	0.4–	2000 04 07	699	0.6–	0.0
1992 11 25	675	0.2–	0.0	1999 02 13	704	1.5–	0.5–	2000 04 07	704	0.3+	0.7+
1992 11 28	675	0.1–	0.1+	2000 03 12	704	1.2+	0.5–	2000 04 07	699	0.7–	0.2–
1992 11 28	675	0.2+	0.1–	2000 03 12	704	0.1–	0.2–	2000 04 07	691	0.3+	0.5–
1997 11 03	704	1.6–	1.6+	2000 03 12	704	0.9+	0.7+	2000 04 07	704	0.2–	1.0+
1997 11 03	704	0.8+	1.6+	2000 03 12	704	0.3–	0.8+	2000 04 07	704	0.1–	0.4+
1997 11 03	704	0.3–	0.4–	2000 03 12	704	0.9–	0.9+	2000 04 07	704	0.5–	0.8+
1997 11 03	704	0.1+	0.6+	2000 04 05	704	0.2+	0.1+	2000 04 08	704	0.5–	0.8+
1999 01 10	699	0.1+	0.5+	2000 04 05	704	0.1+	0.5+	2000 04 08	704	0.6+	0.4–
1999 01 10	699	0.5–	0.6+	2000 04 05	704	0.0	0.0	2000 04 08	704	1.7+	0.7+
1999 01 10	699	(2.2+	0.2–)	2000 04 05	704	0.5+	0.2–	2000 04 10	704	0.4+	0.2–
1999 01 19	704	1.3+	1.0+	2000 04 05	704	0.3+	0.4–	2000 04 10	704	0.3–	0.1+
1999 01 19	704	0.4–	0.9–	2000 04 06	704	0.4+	0.8+	2000 04 10	704	0.1+	0.3+
1999 01 19	704	0.9+	0.4–	2000 04 06	704	0.2+	0.5+	2000 04 10	704	0.5+	0.5–

(14453)* 1993 FV₇ = 1976 JZ₅

Discovered 1993 Mar. 17 at the European Southern Observatory in the course

of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 29617)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	241.60628		(2000.0)	P	Q
n	0.28426045	ω	276.07990	+0.65074798	+0.75560358
a	2.2908242	Ω	34.88741	−0.63464861	+0.59533587
e	0.1117023	i	7.51130	−0.41683114	+0.27320035
P	3.47	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1976 05 03	809	0.6–	0.0	2000 03 01	703	0.8–	0.3+	2000 04 06	704	0.1–	0.3–
1989 03 07	675	0.1–	1.3+	2000 03 01	703	0.7–	0.1–	2000 04 06	704	0.7–	0.2+
1989 03 07	675	2.2+	0.8–	2000 03 01	703	0.1+	0.4+	2000 04 06	699	0.8–	0.2+
1993 03 17	809	0.1–	0.7–	2000 03 08	704	0.1+	0.3+	2000 04 06	699	0.4–	1.2+
1993 03 18	809	0.2–	0.1+	2000 03 08	704	0.1+	0.3–	2000 04 06	699	0.2–	0.1+
1993 03 23	809	0.4–	0.3–	2000 03 08	704	0.1–	0.3+	2000 04 06	699	0.2–	0.4+
1993 04 16	413	0.1–	0.6+	2000 03 08	704	0.3+	0.2–	2000 04 07	704	0.2–	0.4+
1994 09 10	675	0.0	0.6+	2000 03 08	704	0.4–	0.2–	2000 04 07	704	0.0	0.5+
1994 09 10	675	0.2–	0.9+	2000 03 27	699	0.4–	0.3+	2000 04 07	704	1.7–	0.5–
1997 05 12	689	(4.6–	0.5+)	2000 03 27	699	0.2–	0.1+	2000 04 07	704	0.5–	0.4+
1998 12 10	744	0.6–	0.2–	2000 03 27	699	0.4–	0.2+	2000 04 08	704	0.2+	0.4+
1998 12 10	744	0.0	0.1–	2000 03 27	699	0.2–	0.5+	2000 04 08	704	0.2–	0.2+
1998 12 13	716	0.8–	0.8–	2000 03 29	704	0.9+	0.0	2000 04 08	704	0.1+	0.6+
1998 12 13	716	0.8–	0.3–	2000 03 29	704	1.1+	0.2+	2000 04 08	704	0.6–	0.1+
1998 12 14	716	1.1+	0.7+	2000 03 29	704	0.9+	0.4–	2000 04 08	704	0.2+	0.0
1998 12 14	704	0.8+	0.0	2000 03 29	704	1.1+	0.8–	2000 04 08	704	0.4+	0.1–
1998 12 14	716	0.3–	1.3–	2000 03 29	704	1.1+	0.5–	2000 04 08	704	0.2+	0.3+
1998 12 14	704	0.7+	0.1–	2000 04 02	699	0.1–	0.9+	2000 04 08	704	0.1–	0.7–
1998 12 14	704	0.1–	0.3+	2000 04 02	699	0.2–	0.5+	2000 04 08	704	0.0	0.0
1998 12 14	704	1.0–	0.8+	2000 04 02	699	0.2–	0.5+	2000 04 10	704	0.3+	0.4+
1998 12 14	704	0.4+	1.0+	2000 04 02	699	0.1+	0.2+	2000 04 10	704	0.4+	0.4–
1998 12 15	744	0.4–	0.0	2000 04 04	704	0.4+	0.8–	2000 04 10	704	0.3–	0.6+

2000 APR. 18

1998 12 15	744	0.4−	0.4−	2000 04 04	704	0.2+	0.7−	2000 04 10	704	0.5+	0.7−
1998 12 17	704	(0.4+	2.3−)	2000 04 04	704	0.3+	0.7−	2000 04 10	704	0.7+	0.8−
1998 12 17	704	(1.8+	3.1−)	2000 04 06	704	0.5−	0.2+	2000 04 13	704	(2.7+	3.6−)
1998 12 17	704	(1.8+	3.2−)	2000 04 06	704	0.0	0.2+	2000 04 13	704	1.9+	0.3−
2000 03 01	703	0.1−	0.2+	2000 04 06	704	0.5−	0.1−	2000 04 13	704	0.5+	1.0−

(14454)* 1993 FX₁₇

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.28566581	ω	335.62524	-0.17157817	-0.98146466		
a	2.2833047	Ω	124.14839	$+0.91996633$	-0.19062102		
e	0.1100405	i	5.92090	$+0.35245268$	$+0.01976722$		
P	3.45	H	14.4	G	0.15	U	2

Residuals in seconds of arc

1991 09 13	675	1.4−	1.2+	1998 11 13	704	0.3+	0.5+	2000 04 08	704	0.1+	0.4+
1991 09 16	675	0.1+	1.0+	1998 11 13	704	1.7−	1.0+	2000 04 08	704	0.2+	0.9+
1991 09 16	675	0.4−	1.0−	2000 02 08	704	0.6−	0.3+	2000 04 08	704	0.1−	1.2+
1993 03 17	809	0.3+	1.4+	2000 02 08	704	0.5+	0.2−	2000 04 08	704	0.4+	0.9+
1993 03 18	809	0.0	0.3+	2000 02 08	704	0.2−	0.6+	2000 04 09	557	0.2−	0.1+
1993 03 23	809	1.2+	0.9−	2000 03 10	691	0.2−	0.3−	2000 04 09	557	0.2+	0.9+
1993 04 16	413	(3.9−	2.3−)	2000 03 10	691	0.3−	0.4−	2000 04 10	608	0.0	0.9−
1998 09 22	699	0.0	0.3−	2000 03 10	691	0.3−	0.4−	2000 04 10	608	0.5−	0.0
1998 09 22	699	0.0	0.4+	2000 03 11	691	0.1+	0.6+	2000 04 10	608	0.5−	0.5−
1998 09 22	699	0.1−	1.8+	2000 03 11	691	0.4−	0.0	2000 04 13	704	0.7−	0.0
1998 10 17	699	0.6−	1.1+	2000 03 11	691	0.2−	0.1+	2000 04 13	704	1.1+	0.5+
1998 10 17	699	0.6−	0.7+	2000 04 04	704	0.5+	0.8+	2000 04 13	704	0.2−	0.5+
1998 10 17	699	0.3+	0.4+	2000 04 04	704	1.0+	0.2+	2000 04 13	704	0.4−	0.3+
1998 11 13	704	0.8+	0.9−	2000 04 04	704	0.4+	0.3+	2000 04 13	704	0.8+	0.1+
1998 11 13	704	0.7+	0.9+	2000 04 08	704	0.1+	0.1+				

(14455)* 1993 FB₁₈ = 1987 SM₂₈

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23523)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.28853652	ω	204.98318	$+0.50695463$	$+0.85845332$		
a	2.2681348	Ω	95.56357	-0.77712937	$+0.49424447$		
e	0.1547914	i	4.48405	-0.37291681	$+0.13704125$		
P	3.42	H	14.0	G	0.15	U	1

Residuals in seconds of arc

1987 09 24	095	0.6+	2.0−	1996 05 11	327	0.1+	0.8−	1999 01 16	704	1.7−	1.6−
1987 09 27	095	0.1+	1.6−	1997 08 01	566	0.4+	0.7+	1999 01 16	704	0.1+	0.2+
1989 01 08	675	0.5−	0.1+	1997 08 01	566	0.3+	0.6+	1999 01 16	704	1.1+	1.9+
1989 01 08	675	0.6+	0.8+	1997 08 01	566	0.0	0.4+	2000 02 10	704	0.6−	1.1−
1993 03 17	809	0.4+	0.6−	1999 01 14	104	0.6+	0.0	2000 02 10	704	0.0	0.1+
1993 03 18	809	0.1−	0.6−	1999 01 14	104	0.2+	0.0	2000 02 10	704	0.4+	1.0+
1993 03 23	809	0.8+	0.6−	1999 01 14	104	0.5+	0.0	2000 04 03	367	0.4−	0.3−
1993 04 16	413	0.5+	0.0	1999 01 14	104	0.5+	0.1−	2000 04 03	367	1.0−	0.4−
1996 05 10	327	1.2−	1.1−	1999 01 15	104	1.1−	0.0	2000 04 07	704	0.5−	0.0
1996 05 10	327	0.3+	0.7−	1999 01 15	104	0.6−	0.2+	2000 04 07	704	0.3+	0.2+
1996 05 10	327	0.9−	0.9−	1999 01 15	104	0.3−	0.2+	2000 04 07	704	0.1−	0.2+
1996 05 11	327	0.3−	0.1−	1999 01 15	104	0.2−	0.3+	2000 04 07	704	0.0	0.7+
1996 05 11	327	0.6−	0.6−	1999 01 16	704	1.5+	1.0+	2000 04 07	704	0.0	0.3+

(14456)* 1993 FK₂₀

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

M.P.C. 39835

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.16963105	ω	118.82277	$+0.63406195$	$+0.77119809$		
a	3.2319588	Ω	191.08567	-0.77148375	$+0.62588115$		
e	0.1583988	i	17.16197	-0.05270927	$+0.11630257$		
P	5.81	H	13.1	G	0.15	U	2

Residuals in seconds of arc

1990 10 26	675	0.1−	0.5−	1993 03 24	809	0.8+	1.1+	1999 04 07	704	0.9−	1.9−
1990 10 26	675	(2.0+	2.6+)	1993 04 17	413	0.8−	0.1−	1999 04 07	704	0.2−	0.5−
1990 12 10	675	1.1−	0.0	1995 09 24	675	0.7−	0.1+	1999 04 07	704	(3.2−	1.0−)
1990 12 10	675	(2.1−	0.3+)	1995 09 24	675	0.8+	0.8+	1999 04 07	699	0.4+	1.7−
1991 02 08	675	0.4+	0.0	1999 03 23	703	0.0	0.0	1999 04 07	699	0.8+	0.4+
1991 02 08	675	0.8+	0.6−	1999 03 23	703	0.5−	0.3+	1999 04 07	699	1.0+	0.5−
1993 02 24	413	0.9−	0.5+	1999 03 23	703	0.4+	0.1−	1999 04 16	704	1.7−	0.5−
1993 02 24	413	1.0−	0.4+	1999 03 23	703	0.9+	0.5+	1999 04 16	704	0.7+	0.7+
1993 03 19	809	1.0+	1.0+	1999 04 07	704	1.3−	0.3−	1999 04 16	704	0.4+	0.3+
1993 03 20	809	1.2+	0.9+	1999 04 07	704	1.9−	0.2−	1999 04 16	704	1.7+	0.5+

(14457)* 1993 FR₂₃ = 1977 TA₄ = 1984 WG₂

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23525, *MPC* 34501)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.28375559	ω	23.36015	$+0.91889293$	-0.39450694		
a	2.2935406	Ω	359.87430	$+0.34217435$	$+0.79730596$		
e	0.2055025	i	6.37645	$+0.19634791$	$+0.45680137$		
P	3.47	H	13.9	G	0.15	U	2

Residuals in seconds of arc

1977 10 13	330	0.2+	0.8−	1998 09 29	704	0.7−	0.2−	2000 03 30	704	0.2−	0.4+
1984 11 20	675	0.2−	0.7+	1998 09 29	704	(2.5+	2.1−)	2000 03 30	704	0.3−	0.4+
1984 11 21	675	0.5+	1.3+	1998 09 29	704	0.5+	0.4+	2000 03 30	704	0.1+	0.1+
1989 03 09	675	1.3−	1.1−	1998 11 11	704	1.2−	1.2−	2000 03 30	704	0.0	0.3+
1989 03 09	675	0.3−	0.9−	1998 11 11	704	1.6+	0.2−	2000 04 07	704	0.5+	0.1+
1993 03 21	809	1.5−	0.4−	1998 11 11	704	1.6−	1.2+	2000 04 07	704	1.0+	0.3−
1993 03 22	809	1.2−	0.2+	1998 11 11	704	1.8−	0.9−	2000 04 07	704	0.4−	0.2+
1993 03 26	809	0.3−	0.8−	1998 11 16	704	1.7+	1.1+	2000 04 07	704	0.3+	0.2+
1993 03 27	809	0.3−	0.8−	1998 11 16	704	1.0+	1.4+	2000 04 07	704	0.2+	0.0
1993 04 16	413	(1.6−	4.2+)	1998 11 16	704	(2.4+	0.7−)	2000 04 07	704	0.0	0.0
1996 02 14	098	1.3−	1.1−	1998 11 16	704	0.5−	1.6+	2000 04 07	704	0.2−	0.4−
1996 02 14	098	0.6−	1.3−	1998 12 14	704	0.4+	0.6+	2000 04 07	704	0.4+	0.0
1996 02 15	098	0.8−	0.9+	1998 12 14	704	0.5+	0.3+	2000 04 07	704	0.1+	1.2−
1996 02 15	098	0.6−	0.2+	1998 12 14	704	0.9+	0.5−	2000 04 07	704	0.4+	0.2+
1996 02 19	691	1.0+	0.5+	1998 12 14	704	0.1−	0.5+	2000 04 08	704	0.1−	0.4−
1996 02 19	691	0.6+	0.0	1998 12 14	704	0.7−	0.1−	2000 04 08	704	0.1+	0.1+
1996 02 19	691	0.2+	0.1−	1998 12 17	704	0.2−	1.0+	2000 04 08	704	0.5−	1.0+
1996 02 24	098	0.9+	0.2+	1998 12 17	704	(1.0−	2.1+)	2000 04 08	704	0.1−	0.3+
1996 02 24	098	0.6+	0.2−	1998 12 17	704	0.6−	1.7−	2000 04 08	704	0.2+	0.4+
1996 04 06	327	0.3−	0.1−	1998 12 17	704	1.6−	0.8+	2000 04 08	704	0.5−	0.4+
1996 04 06	327	0.3−	0.1−	1998 12 17	704	0.9−	0.9+	2000 04 08	704	0.7+	0.2+
1996 04 08	327	0.6−	0.1+	1999 01 21	610	1.6+	0.6+	2000 04 08	704	0.8+	0.1−
1996 04 08	327	0.9−	0.4−	1999 01 21	610	1.3+	0.3+	2000 04 08	704	0.5+	1.1+
1996 04 08	327	1.1−	0.5−	1999 01 21	610	1.0+	0.1−	2000 04 08	704	0.1−	0.3+
1998 08 28	704	0.9+	0.1−	1999 01 21	610	0.8+	0.4−	2000 04 08	704	0.3+	0.9+
1998 08 28	704	(2.2−	0.2−)	1999 01 21	610	0.5+	0.8−	2000 04 08	704	0.5+	0.1+
1998 08 31	704	1.1−	0.6−	1999 03 11	704	1.0+	0.9+	2000 04 08	704	0.2+	0.1−
1998 08 31	704	1.1−	1.4−	1999 03 11	704	(2.4+	1.7−)	2000 04 08	704	0.7+	0.2+
1998 08 31	704	0.6+	0.7−	1999 03 11	704	0.1−	0.3−	2000 04 10	704	1.4+	0.2+
1998 08 31	704	0.8−	0.5−	1999 03 11	704	0.4−	1.2−	2000 04 10	704	0.3−	1.6+
1998 08 31	704	0.8−	0.2+	2000 03 09	704	0.3+	0.7+	2000 04 10	704	0.1+	0.5−
1998 09 29	704	0.2−	0.7−	2000 03 09	704	0.2+	0.7+	2000 04 10	704	0.3+	0.4−
1998 09 29	704	0.3+	1.1+	2000 03 09	704	0.0	0.7+	2000 04 10	704	0.1+	0.5−

(14458)* 1993 FX₂₅ = 1994 SH

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 24108)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27644845	ω	311.20262	+0.25967378	+0.96517782		
<i>a</i>	2.3337802	Ω	333.79741	−0.86317893	+0.21728998		
<i>e</i>	0.1320123	<i>i</i>	4.10963	−0.43300307	+0.14566003		
<i>P</i>	3.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 03 21	809	0.9+	0.3−	1996 01 12	691	0.5+	0.1−	2000 03 03	704	0.2+	0.3−
1993 03 22	809	0.8+	0.1−	1996 01 19	691	0.6−	0.1−	2000 03 03	704	0.8+	0.2+
1993 03 26	809	0.5−	0.3−	1996 01 19	691	0.3−	0.4−	2000 03 03	704	0.1+	1.2−
1993 04 17	413	1.4−	0.2+	1996 01 19	691	0.3−	0.2−	2000 03 03	704	0.8−	1.6−
1994 09 30	595	0.9+	0.3+	1996 01 25	691	0.1−	0.4−	2000 03 08	704	(2.1+ 0.2−)	
1994 09 30	595	0.1+	0.6+	1996 01 25	691	0.2+	0.3−	2000 03 08	704	0.7+	0.1−
1994 10 05	595	0.2+	0.2−	1996 01 25	691	0.0	0.3−	2000 03 08	704	0.0	1.0+
1994 10 06	595	0.2−	0.4−	2000 02 27	703	0.1+	1.3+	2000 03 11	704	0.2−	0.0
1994 10 07	595	0.2−	0.0	2000 02 27	703	0.3+	0.9+	2000 03 11	704	0.3−	0.0
1994 10 07	595	0.1−	0.1+	2000 02 27	703	0.5+	0.0	2000 03 11	704	0.1+	0.2−
1994 10 12	595	1.1+	1.9+	2000 02 27	703	0.5+	0.4+	2000 03 11	704	0.1−	0.1+
1994 10 12	595	1.4−	0.3+	2000 02 29	704	1.2+	0.8+	2000 03 11	704	0.1−	0.2−
1994 10 13	595	0.7−	0.7−	2000 02 29	704	0.9+	0.1+	2000 04 04	704	0.5−	0.7+
1994 10 13	595	0.9−	0.7+	2000 02 29	704	0.0	0.2−	2000 04 04	704	0.7−	0.1+
1996 01 12	691	0.1+	0.1−	2000 02 29	704	0.4−	0.1+	2000 04 04	704	0.1+	0.1+
1996 01 12	691	0.1−	0.1−	2000 03 03	704	0.3−	0.9+	2000 04 04	704	0.1+	1.3+

(14459)* 1993 FY₂₇ = 1987 SR₅

Discovered 1993 Mar. 21 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. G. V. Williams (*MPC* 23526)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28195597	ω	21.33298	+0.73187238	+0.68076294		
<i>a</i>	2.3032894	Ω	295.72632	−0.62999342	+0.65893324		
<i>e</i>	0.1704202	<i>i</i>	1.93431	−0.25975202	+0.31995126		
<i>P</i>	3.50	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 29	054	0.2+	0.6+	1998 12 16	704	0.7+	1.2−	2000 03 26	699	0.4+	0.1+
1987 09 30	054	0.7−	0.2−	1998 12 16	704	1.3−	0.6−	2000 04 07	699	0.6+	0.2−
1987 09 30	054	0.7+	0.7+	1998 12 16	704	0.4−	0.3+	2000 04 07	699	1.0+	0.3+
1987 10 17	675	(0.4+ 2.7+)		1998 12 17	704	0.8+	0.9+	2000 04 07	699	0.9+	0.5+
1987 10 17	675	0.8−	2.0+	1998 12 17	704	(2.1+ 2.4−)		2000 04 07	704	0.7+	0.2+
1993 03 21	809	(2.5− 0.9+)		1998 12 17	704	0.9+	0.7+	2000 04 07	699	0.6+	0.5+
1993 03 22	809	0.5−	0.1+	1998 12 17	704	0.6−	0.7−	2000 04 07	704	0.0	0.5−
1993 03 26	809	0.5+	0.1+	1998 12 17	704	0.3−	0.4+	2000 04 07	704	0.6+	0.3+
1993 04 17	413	1.3−	0.0	2000 03 09	704	0.1−	0.1+	2000 04 07	704	0.1+	0.1+
1994 09 30	675	0.7−	0.5−	2000 03 09	704	1.1−	0.6+	2000 04 07	704	0.5+	0.1+
1994 09 30	675	0.6−	0.6+	2000 03 09	704	0.1−	0.1+	2000 04 08	704	0.5−	0.4+
1994 11 04	675	0.5+	0.0	2000 03 09	704	0.9+	1.4−	2000 04 08	704	0.2−	0.6+
1994 11 04	675	0.1−	0.6−	2000 03 09	704	0.2−	0.2+	2000 04 08	704	0.7−	0.1+
1994 11 06	675	0.3+	0.4−	2000 03 26	699	0.1+	0.1+	2000 04 08	704	0.7−	0.7−
1994 11 06	675	0.3+	0.2+	2000 03 26	699	0.4−	1.3+				
1998 12 16	704	0.2+	0.1−	2000 03 26	699	0.1+	0.3−				

(14460)* 1993 FZ₄₀ = 1996 BY₄

Discovered 1993 Mar. 19 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. K. Ichikawa (*MPC* 27915)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28613600	ω	311.64832	+0.99379280	+0.10209289		
<i>a</i>	2.2808027	Ω	42.54731	−0.07228207	+0.89454205		
<i>e</i>	0.1625824	<i>i</i>	3.74713	−0.08456458	+0.43516844		
<i>P</i>	3.44	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 19	809	0.8−	0.6−	1998 12 17	704	0.0	0.4+	2000 04 05	704	0.0	0.1−
1993 03 20	809	0.1−	0.3−	1998 12 17	704	0.7+	0.6−	2000 04 05	704	0.1+	0.4−
1993 03 24	809	1.5+	0.3+	1998 12 17	704	0.0	0.2+	2000 04 05	704	0.3+	0.1+
1993 04 21	413	0.4+	1.8+	1998 12 17	704	0.9−	0.2+	2000 04 05	704	0.1+	0.2−
1993 04 29	691	0.7−	0.4−	1999 01 15	732	0.2+	0.9+	2000 04 05	704	0.1+	0.4−
1993 04 29	691	0.7−	1.0−	1999 01 15	732	(0.9+ 2.1+)		2000 04 06	704	0.3+	0.1−
1993 04 29	691	0.6−	1.5−	1999 01 15	732	0.3+	0.5+	2000 04 06	704	0.3+	0.2−
1996 01 16	691	0.5+	0.0	1999 01 16	704	1.7+	1.5−	2000 04 06	691	0.8−	0.1−
1996 01 16	691	0.1−	0.0	1999 01 16	704	0.9+	0.7−	2000 04 06	704	0.2+	0.1+
1996 01 16	691	0.3−	0.1+	1999 01 16	732	0.4−	0.2+	2000 04 06	691	0.8−	0.1−
1996 01 29	691	0.0	0.1+	1999 01 16	704	0.2+	0.3+	2000 04 06	704	0.4+	0.1−
1996 01 29	691	0.1−	0.0	1999 01 16	732	1.0−	0.1+	2000 04 06	704	0.4+	0.0
1996 01 29	691	0.1+	0.4−	1999 01 16	732	0.6−	0.3+	2000 04 06	691	0.7−	0.0
1998 12 14	704	1.8−	0.3+	1999 01 16	704	0.0	0.0	2000 04 07	704	0.2+	0.3+
1998 12 14	704	0.3+	0.8−	1999 01 16	704	0.4−	0.1−	2000 04 07	704	0.3+	0.3+
1998 12 14	704	0.8+	0.4+	2000 03 09	704	0.4+	0.9+	2000 04 07	704	0.7−	0.5+
1998 12 14	704	(1.2− 2.1−)		2000 03 09	704	0.5+	0.8+	2000 04 07	704	0.2+	0.2+
1998 12 14	704	(2.7− 0.9+)		2000 03 09	704	0.1+	0.4+				

(14461)* 1993 FL₅₄ = 1990 SZ₆

Discovered 1993 Mar. 17 at the European Southern Observatory in the course of the Uppsala-ESO Survey of Asteroids and Comets.

Id. A. Milani (*MPC* 34189)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27787450	ω	254.92768	−0.07937354	+0.99430506		
<i>a</i>	2.3257887	Ω	11.26344	−0.71597454	−0.00722626		
<i>e</i>	0.3276383	<i>i</i>	21.35172	−0.69359952	−0.10632604		
<i>P</i>	3.55	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 09 15	809	0.4−	0.6−	2000 02 13	931	0.5−	1.4+	2000 03 12	704	0.1−	0.5−
1990 09 15	809	1.0−	1.0−	2000 02 13	931	0.5−	0.5+	2000 03 12	704	0.0	0.6−
1990 09 15	809	0.4−	0.6−	2000 02 14	931	0.0	0.4+	2000 03 12	704	0.3−	1.2−
1990 09 22	809	1.7+	1.1+	2000 02 14	931	0.0	0.2−	2000 03 12	704	0.4−	1.2−
1990 09 22	809	(2.5+ 0.5+)		2000 02 14	931	0.9−	0.1+	2000 03 26	699	0.3−	0.2+
1990 09 22	809	(2.9+ 0.4+)		2000 02 14	931	0.0	0.7+	2000 03 26	699	0.4−	0.1+
1990 09 25	809	0.3+	0.9−	2000 03 04	688	0.2+	0.1−	2000 03 26	699	0.3−	0.2+
1990 09 25	809	1.6+	1.0−	2000 03 04	688	0.3+	0.1−	2000 03 26	699	0.4−	0.3+
1990 09 25	809	1.2+	0.0	2000 03 05	704	0.2+	0.1−	2000 03 28	704	0.5+	0.7+
1993 03 17	809	1.2−	0.2+	2000 03 05	704	(3.3− 0.0)		2000 03 28	704	0.2−	0.9−
1993 03 18	809	0.1+	0.2−	2000 03 05	704	(3.9− 0.1+)		2000 03 28	704	0.5+	0.9−
1993 03 23	809	0.3+	0.1−	2000 03 05	704	(4.0− 0.2+)		2000 04 03	704	0.2+	0.0
1993 03 23	691	0.4−	0.8−	2000 03 05	704	(3.6− 0.1+)		2000 04 03	704	0.2+	0.0
1993 03 23	691	0.4−	0.8−	2000 03 08	608	0.3−	0.3+	2000 04 03	704	0.4+	0.3+
1993 03 23	691	0.1−	1.0−	2000 03 08	608	0.4−	0.3+	2000 04 03	704	0.5+	0.4+
1993 04 15	691	0.8−	0.3−	2000 03 08	608	0.1−	0.2+	2000 04 03	704	0.4+	0.5+
1993 04 15	691	0.7−	0.6−	2000 03 09	704	0.3+	0.3+	2000 04 08	704	0.4+	0.3−
1993 04 15	691	0.9−	0.5−	2000 03 09	704	0.3+	0.3+	2000 04 08	704	0.4+	0.0
1998 12 12	704	0.6+	0.3+	2000 03 09	704	0.3+	0.3+	2000 04 08	704	0.4+	0.4−
1998 12 12	704	0.0	0.3−	2000 03 09	704	0.2+	0.3+	2000 04 08	704	0.6+	0.0
1998 12 12	704	0.6−	0.9−	2000 03 09	704	0.1+	0.2+	2000 04 08	704	0.2+	0.5+
1998 12 12	704	(6.8− 2.1+)		2000 03 12	704	0.0	0.3−				

(14462)* 1993 GA = 4187 T-1 =

2000 APR. 18

M.P.C. 39837

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	252.63981	(2000.0)	P		Q	
<i>n</i>	0.26963409	ω	258.85484	+0.07162190	+0.99697945	
<i>a</i>	2.3729369	Ω	15.34868	-0.86511708	+0.07708126	
<i>e</i>	0.1196506	<i>i</i>	6.51608	-0.49642999	+0.00951041	
<i>P</i>	3.66	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1971 03 24	675	0.2-	0.5-	1993 04 04	695	0.2+	0.7+	2000 02 29	704	0.1+	0.1+
1971 03 26	675	(4.1-	1.9-)	1993 04 04	695	0.3-	0.5+	2000 02 29	704	0.1+	0.5+
1971 03 26	675	(3.7-	1.8-)	1994 09 28	691	0.1-	0.3+	2000 02 29	704	0.3-	0.4+
1971 04 02	675	0.3-	0.3-	1994 09 28	691	0.1+	0.1+	2000 02 29	704	0.6-	0.3-
1993 03 21	809	0.5-	1.3+	1994 09 28	691	0.1-	0.2+	2000 03 12	704	0.8+	0.5+
1993 03 22	809	0.6+	0.8+	1994 09 29	691	0.0	0.0	2000 03 12	704	0.3+	0.7-
1993 04 02	695	0.4+	0.3-	1994 09 29	691	0.1-	0.0	2000 03 12	704	0.2+	0.4+
1993 04 02	695	1.1+	0.9-	1994 09 29	691	0.1-	0.0	2000 03 12	704	0.1-	0.5+
1993 04 02	695	0.1-	0.9-	2000 02 25	703	0.7-	0.3-	2000 04 03	699	0.5-	0.0
1993 04 02	695	0.4+	0.5-	2000 02 25	703	0.6-	0.1-	2000 04 03	699	0.7-	0.5+
1993 04 02	695	0.1+	0.2+	2000 02 25	703	0.8+	0.6-	2000 04 03	699	0.4+	0.2+
1993 04 04	695	0.5-	0.1+	2000 02 25	703	0.9+	0.4+	2000 04 03	699	1.0+	0.0
1993 04 04	695	0.9-	0.1+	2000 02 29	704	0.8+	0.9-				

(14463)* 1993 GA₁ = 1996 FO₁₅

Discovered 1993 Apr. 15 by Spacewatch at Kitt Peak.

Id. B. G. Marsden (*MPC* 27446)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	151.36824	(2000.0)	P		Q	
<i>n</i>	0.28029256	ω	14.20193	+0.92869328	-0.37048577	
<i>a</i>	2.3123931	Ω	7.60469	+0.32700425	+0.79723095	
<i>e</i>	0.1183959	<i>i</i>	7.12042	+0.17492002	+0.47661632	
<i>P</i>	3.52	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1993 03 19	809	0.0	0.1-	1998 11 10	704	0.2+	0.6+	2000 03 14	703	1.1-	0.0
1993 03 20	809	0.6+	0.7-	1998 11 10	704	0.8+	0.9+	2000 03 14	703	0.6-	0.2+
1993 03 24	809	0.7+	0.8+	1998 11 10	704	0.8-	1.0+	2000 03 14	703	0.2-	0.2+
1993 03 28	691	0.6-	1.9-	1998 11 10	704	0.8+	1.2+	2000 03 14	703	0.2+	0.9+
1993 03 28	691	(1.5-	2.9-)	1998 11 11	704	0.4+	0.1-	2000 03 14	691	0.6-	0.6-
1993 03 28	691	0.8-	0.2-	1998 11 11	704	0.2-	0.1-	2000 03 14	691	0.5-	0.6-
1993 04 15	691	0.1-	0.5-	1998 11 11	704	0.4-	0.5-	2000 03 14	691	0.5-	0.5-
1993 04 15	691	0.1+	0.3-	1998 11 11	704	0.3-	0.5-	2000 04 04	704	0.5+	0.9-
1993 04 15	691	0.2-	0.2+	1998 11 11	704	0.6+	0.0	2000 04 04	704	0.3-	0.1-
1993 04 17	691	0.9-	0.6-	1999 01 08	704	(2.1-	0.3+)	2000 04 04	704	0.6+	0.2-
1993 04 17	691	0.8-	0.8-	1999 01 08	704	0.1+	1.1-	2000 04 04	704	0.3+	0.1-
1993 04 17	691	0.8-	0.5-	1999 01 08	704	0.3-	0.1-	2000 04 04	704	0.1-	0.6-
1996 03 20	704	0.7+	0.3+	1999 01 08	699	0.3-	0.3+	2000 04 05	704	0.4+	0.3+
1996 03 20	704	0.7+	0.3+	1999 01 08	704	(3.3-	0.4+)	2000 04 05	704	0.3+	0.1+
1996 03 20	704	0.3+	0.8+	1999 01 08	699	0.1-	0.7+	2000 04 05	704	0.8+	0.2+
1996 03 21	704	0.9-	0.1-	1999 01 08	699	0.6-	1.3+	2000 04 05	704	0.5+	0.1+
1996 03 21	704	0.5-	0.4-	2000 02 26	691	0.3-	0.3-	2000 04 05	704	0.3+	0.1+
1996 03 21	704	(2.6-	2.2-)	2000 02 26	691	0.4-	0.3-	2000 04 05	688	0.3+	0.2+
1996 03 21	704	0.5-	0.0	2000 02 26	691	0.3-	0.3-	2000 04 05	688	0.0	0.2+
1996 05 19	704	2.0-	1.4-	2000 03 06	608	0.8-	0.5-	2000 04 06	704	0.2-	0.3+
1996 05 19	704	0.0	0.8+	2000 03 06	608	0.0	0.8-	2000 04 06	704	0.3-	0.1+
1996 05 19	704	0.0	1.3-	2000 03 06	608	0.7-	0.4-	2000 04 06	704	0.2-	0.3+
1996 05 21	704	(2.5-	0.8-)	2000 03 08	704	0.1-	0.6+	2000 04 06	704	0.2-	0.3+
1996 05 21	704	0.9+	0.5+	2000 03 08	704	0.5+	1.4+	2000 04 06	704	0.3-	0.5+
1996 05 21	704	0.6+	0.8-	2000 03 08	704	1.2+	0.6+	2000 04 07	704	0.2+	0.2+
1998 09 29	704	(1.0-	2.3-)	2000 03 08	704	0.2+	0.2+	2000 04 07	704	0.1+	0.6+
1998 09 29	704	(1.5+	2.6+)	2000 03 08	704	0.4+	0.1+	2000 04 07	704	0.1+	0.7+
1998 09 29	704	0.4-	1.3-	2000 03 10	704	0.6+	0.0	2000 04 07	699	0.1-	0.1+
1998 09 29	704	1.7-	0.0	2000 03 10	704	0.5+	0.1+	2000 04 07	704	0.1+	0.5+
1998 09 29	704	0.1-	0.1-	2000 03 10	704	0.4+	0.3-	2000 04 07	699	0.4-	0.4+
1998 10 15	704	(0.8-	3.3-)	2000 03 10	704	0.2+	0.4-	2000 04 07	704	0.1+	0.1+
1998 10 15	704	1.9-	1.2+	2000 03 11	704	0.5+	0.2+	2000 04 07	699	0.5-	0.0
1998 10 15	704	1.2-	0.8-	2000 03 11	704	0.2+	0.1+	2000 04 07	699	0.4-	0.1+

1998 10 15	704	0.4-	0.4-	2000 03 11	704	0.4+	0.3+	2000 04 08	704	0.6+	0.4+
1998 10 29	704	0.5+	0.0	2000 03 11	704	0.4+	0.1-	2000 04 08	704	0.6-	0.4+
1998 10 29	704	1.0+	0.1-	2000 03 11	704	1.0+	0.9+	2000 04 08	704	0.3+	0.5+
1998 10 29	704	1.0+	0.7-	2000 03 12	691	0.1-	0.5-	2000 04 08	704	0.5-	0.1+
1998 10 29	704	1.1+	1.0-	2000 03 12	691	0.2-	0.8-	2000 04 08	704	0.8+	0.8+
1998 10 29	704	1.2+	0.8-	2000 03 12	691	0.0	0.6-				

(14464)* 1993 HC₁

Discovered 1993 Apr. 21 by R. H. McNaught at Siding Spring.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	4.62373	(2000.0)	P		Q	
<i>n</i>	0.28377719	ω	158.44774	-0.98629974	-0.05882222	
<i>a</i>	2.2934242	Ω	20.12423	-0.07611655	-0.66658887	
<i>e</i>	0.1900067	<i>i</i>	26.61206	+0.14635261	-0.74310109	
<i>P</i>	3.47	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1976 08 19	413	0.2-	0.7+	2000 02 06	704	0.9+	0.1+	2000 04 08	704	0.6+	0.0
1976 08 19	413	0.7-	1.7-	2000 02 06	704	1.1+	0.3+	2000 04 08	704	0.2+	1.0+
1980 07 19	413	0.8-	1.3+	2000 02 06	704	0.2+	1.2-	2000 04 08	704	1.5+	1.5+
1991 10 03	691	0.1+	0.0	2000 03 09	704	0.6+	0.1-	2000 04 10	704	0.2-	0.1+
1991 10 03	691	0.2-	0.2-	2000 03 09	704	0.2+	0.1+	2000 04 10	704	0.3+	0.2+
1991 10 03	691	0.4+	0.3-	2000 03 09	704	0.5+	0.1+	2000 04 10	704	0.2+	0.1-
1993 03 19	691	0.7-	0.2-	2000 03 09	704	0.3+	0.4-	2000 04 10	704	0.3+	0.2-
1993 03 19	691	0.6-	0.3-	2000 04 02	691	0.3-	0.4-	2000 04 10	704	0.4-	0.1-
1993 03 19	691	0.7-	0.2-	2000 04 02	691	0.5-	0.5-	2000 04 10	608	0.4-	0.1-
1993 04 18	413	0.2-	0.6-	2000 04 02	691	0.3-	0.9-	2000 04 10	608	0.3-	0.1+
1993 04 18	413	0.2-	0.2-	2000 04 04	699	0.5+	0.1+	2000 04 10	608	0.5-	0.2+
1993 04 21	413	1.6-	0.8-	2000 04 04	699	0.4+	0.1-	2000 04 12	704	0.1-	0.1+
1993 04 21	413	0.2-	0.6-	2000 04 04	699	0.2+	0.1-	2000 04 12	704	0.4-	0.1-
1993 04 26	413	0.4-	1.1-	2000 04 04	699	0.4+	0.1-	2000 04 12	704	0.1+	0.4+
1993 05 11	413	0.1-	0.1+	2000 04 07	704	0.1+	0.2+	2000 04 12	704	0.3-	0.0
1993 05 11	413	0.0	0.1+	2000 04 07	704	0.1+	0.0	2000 04 12	704	0.3-	0.1+
1998 09 26	704	0.8-	0.3+	2000 04 07	704	0.4-	0.1-	2000 04 13	704	0.3+	0.2+
1998 09 26	704	0.1+	0.5-	2000 04 07	704	0.2-	0.6+	2000 04 13	704	0.1-	0.1+
1998 09 26	704	1.0+	0.1+	2000 04 07	704	0.5+	0.5+	2000 04 13	704	0.2-	0.2+
1998 09 26	704	(2.5-	0.2-)	2000 04 08	704	0.2-	0.5+	2000 04 13	704	(0.8-	2.9+)
2000 02 06	704	1.1+	0.6+	2000 04 08	704	0.3+	0.1+	2000 04 13	704	0.0	0.4+

(14465)* 1993 NB = 1955 PA = 1974 OH = 1980 BO₆

Discovered 1993 July 15 by S. Otomo at Kiyosato.

Id. S. Nakano (*MPC* 30660), T. B. Spahr (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.25311	(2000.0)	P		Q	
<i>n</i>	0.25832500	ω	204.82917	+0.89648357	+0.40153439	
<i>a</i>	2.4416970	Ω	130.16613	-0.35445078	+0.90359511	
<i>e</i>	0.2257558	<i>i</i>	14.18900	-0.26586058	+0.14928501	
<i>P</i>	3.82	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1955 08 09	076	(10.9+	1.6-)	1999 01 18	704	0.1+	0.4+	2000 02 06	704	0.7+	0.6+
1974 07 20	095	(4.8+	13.4+)	1999 01 18	704	0.1-	1.1+	2000 02 06	704	0.2+	0.2-
1980 01 21	046	0.3-	0.2-	1999 01 18	704	0.2-	1.1+	2000 02 06	704	0.7+	0.6-
1980 01 21	046	0.3+	0.1+	1999 01 18	704	0.2+	0.9+	2000 02 06	704	0.8+	0.8-
1993 07 15	894	0.5-	1.7+	1999 01 18	704	1.9+	1.6+	2000 02 06	704	1.2+	0.4-
1993 07 15	894	1.2-	1.6-	1999 02 11	699	0.3+	0.6+	2000 03 12	699	0.1+	0.0
1993 07 16	675	(2.5+	2.8+)	1999 02 11	699	0.2+	0.4+	2000 03 12	699	0.0	0.4+
1993 07 16	675	(3.6+	3.3+)	1999 02 11	699	0.1-	0.2+	2000 03 12	699	0.0	0.1+
1993 07 20	675	0.4-	1.1+	1999 02 12	691	0.3-	0.4-	2000 03 12	699	0.1-	0.3+
1993 07 20	675	0.2+	0.3-	1999 02 12	704	0.6-	0.3-	2000 04 03	704	0.3+	0.3-
1993 07 21	894	0.7+	1.8+	1999 02 12	691	0.4-	0.3-	2000 04 03	704	0.1-	0.4-
1993 07 21	894	1.7-	0.3+	1999 02 12	704	0.6-	0.2-	2000 04 03	704	0.3+	0.4-
1993 07 23	871	0.1-	0.1-	1999 02 12	704	0.3+	0.1+	2000 04 03	704	0.3+	0.6-
1993 07 23	871	1.8+	0.6+	1999 02 12	691	0.1-	0.2-	2000 04 08	704	0.3-	0.2-
1993 07 23	871	1.1+	0.0	1999 02 12	704	0.5-	0.4-	2000 04 08	704	0.3-	0.3-

1993 08 11	894	0.1−	1.1+	1999 02 12	704	1.0−	1.1−	2000 04 08	704	0.9−	0.2−
1993 08 11	894	0.3+	1.9−	1999 02 23	699	0.3+	0.1+	2000 04 08	704	0.6−	0.3−
1998 12 23	704	0.5−	1.2−	1999 02 23	699	0.3+	0.4−	2000 04 08	704	0.4−	0.8−
1998 12 23	704	0.5−	0.2+	1999 02 23	699	0.0	0.1−	2000 04 14	704	0.2+	0.1+
1998 12 23	704	0.5−	1.4−	1999 05 08	704	0.9−	0.4+	2000 04 14	704	0.1−	0.4+
1998 12 23	704	(0.3−	3.0+)	1999 05 08	704	0.3+	1.7+	2000 04 14	704	0.1+	0.4+
1998 12 23	704	0.3−	0.9+	1999 05 08	704	0.8−	0.7−	2000 04 14	704	0.4−	0.4+
1999 01 10	699	0.8+	0.6+	2000 01 08	699	0.8+	0.3−	2000 04 14	704	0.3−	0.3+
1999 01 10	699	0.6+	0.4+	2000 01 08	699	0.4−	0.3+				
1999 01 10	699	1.1+	0.3+	2000 01 08	699	0.6−	1.4+				

(14466)* 1993 OY₂ = 1996 FV

Discovered 1993 July 25 by M. Hammergren at Manastash Ridge Observatory.
Id. G. V. Williams (*MPC* 26903)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23343189	ω	317.49192	+0.64499719	+0.76317571				
<i>a</i>	2.6123373	Ω	352.37327	−0.59720594	+0.47134106				
<i>e</i>	0.2041643	<i>i</i>	17.20696	−0.47678475	+0.44204122				
<i>P</i>	4.22	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1993 07 25	664	0.8−	0.3+	1993 09 09	664	0.0	0.3+	1996 03 19	817	0.3−	1.2−
1993 07 25	664	0.3−	1.0+	1993 09 09	664	(2.2−	1.0−)	1996 03 19	817	0.4+	1.1+
1993 08 16	664	(6.6−	1.3−)	1993 09 09	664	(2.4−	1.0−)	1996 03 19	817	1.0−	0.7−
1993 08 16	664	0.1−	0.7−	1993 09 09	664	(2.4−	1.0−)	1996 03 20	709	0.1−	0.3−
1993 08 18	664	0.3+	0.6−	1993 09 09	664	0.3−	0.2+	1996 03 20	709	0.1−	0.2−
1993 08 18	664	0.0	0.8−	1993 09 09	664	0.4−	0.2+	1996 03 20	709	0.0	0.1−
1993 09 07	664	0.3+	0.1+	1993 09 09	664	0.2−	0.1+	1996 03 20	709	0.4−	0.3−
1993 09 07	664	0.2+	0.2+	1993 09 09	664	0.5−	0.1+	1998 12 12	704	(1.2+	3.4−)
1993 09 07	664	0.2+	0.1−	1993 09 09	664	0.2−	0.1+	1998 12 12	704	0.5−	0.4−
1993 09 07	664	1.3−	0.4+	1993 09 09	664	0.3−	0.0	1998 12 12	704	0.6+	1.7−
1993 09 07	664	0.3+	0.1−	1993 09 09	664	0.7−	0.0	1998 12 12	704	(0.1+	3.1−)
1993 09 07	664	0.5+	0.3−	1993 09 09	664	0.3−	0.1+	2000 03 02	703	1.1+	0.3+
1993 09 07	664	0.6+	0.1−	1993 09 09	664	0.6−	0.1+	2000 03 02	703	1.6+	0.5+
1993 09 07	664	0.3−	0.2+	1993 09 09	664	0.4−	0.1+	2000 03 02	703	1.2−	0.5+
1993 09 07	664	0.8+	0.3−	1993 09 09	664	0.4−	0.0	2000 03 02	703	0.5+	0.2−
1993 09 07	664	0.3+	0.4−	1993 09 09	664	0.4−	0.1+	2000 03 05	704	0.5+	0.5+
1993 09 07	664	0.4−	0.0	1993 09 09	664	0.1−	0.0	2000 03 05	704	0.5+	0.5+
1993 09 07	664	0.2+	0.3−	1993 09 09	664	0.3−	0.0	2000 03 05	704	0.9+	0.9−
1993 09 08	664	0.6+	0.5+	1993 09 09	664	0.3−	0.0	2000 03 05	704	1.0+	0.1+
1993 09 08	664	0.8+	0.5+	1993 09 09	664	0.9−	0.1−	2000 03 05	704	0.3+	0.2+
1993 09 08	664	0.7+	0.7+	1993 09 09	664	0.9−	0.1−	2000 03 12	704	0.4+	0.5−
1993 09 08	664	0.6+	0.7+	1993 09 09	664	0.8−	0.1−	2000 03 12	704	0.2+	0.6+
1993 09 08	664	0.6+	0.3+	1993 09 09	664	0.8−	0.0	2000 03 12	704	0.9+	0.5+
1993 09 08	664	0.0	0.4+	1993 09 09	664	0.7−	0.1−	2000 03 12	704	0.3+	0.4+
1993 09 08	664	(2.6−	2.9+)	1993 09 09	664	0.7−	0.2−	2000 03 12	704	0.0	0.5+
1993 09 09	664	2.0+	0.0	1993 09 09	664	0.9−	0.0	2000 04 03	699	0.6−	1.5+
1993 09 09	664	1.7+	0.1−	1993 09 09	664	0.7−	0.2−	2000 04 03	699	0.3−	1.4+
1993 09 09	664	0.2+	0.6+	1993 09 09	664	0.7−	0.1−	2000 04 03	699	0.5−	0.0
1993 09 09	664	0.0	0.4+	1996 03 19	817	0.6+	1.0+	2000 04 03	699	0.9−	0.6+
1993 09 09	664	0.6+	0.3+	1996 03 19	817	0.1−	0.8−				
1993 09 09	664	0.4+	0.3+	1996 03 19	817	(2.1−	0.9−)				

(14467)* 1993 OP₃ = 1986 WR₁₀ = 1998 VL₅

Discovered 1993 July 20 by E. W. Elst at the European Southern Observatory.

Id. T. Urata (*MPC* 33235)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24481056	ω	137.48674	−0.04192668	−0.99785665				
<i>a</i>	2.5307502	Ω	314.84711	+0.89657338	−0.01538481				
<i>e</i>	0.1062581	<i>i</i>	4.06362	+0.44090626	−0.06360357				
<i>P</i>	4.03	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1986 11 30	381	0.0	0.6+	1998 11 10	704	0.7+	0.4+	2000 03 09	704	0.3+	0.3+
1986 11 30	381	0.5−	0.3−	1998 11 10	704	0.2+	0.7+	2000 03 09	704	0.2+	0.3−
1986 12 01	381	0.6+	0.9+	1998 11 10	704	0.3−	0.6+	2000 03 09	704	0.3+	0.6+
1986 12 01	381	0.3−	0.6−	1998 11 10	888	0.2−	0.4+	2000 04 02	699	0.4+	1.3+
1993 07 13	809	1.1+	1.7+	1998 11 11	704	0.5+	0.1+	2000 04 02	699	1.6+	0.3−
1993 07 13	809	0.7−	1.1+	1998 11 11	704	0.1−	0.1−	2000 04 02	699	0.2+	0.5+
1993 07 13	809	0.1−	1.4+	1998 11 11	704	0.3−	0.7+	2000 04 02	699	0.2+	0.8+
1993 07 20	809	(0.7−	2.6+)	1998 11 11	704	0.5+	0.5+	2000 04 03	699	0.9+	0.4+
1993 07 20	809	(0.9−	2.8+)	1998 11 11	704	1.2−	0.5+	2000 04 03	699	0.5−	0.4+
1993 07 20	809	(2.3−	2.0+)	1998 11 11	888	0.2−	0.2+	2000 04 03	699	0.2−	0.4+
1993 07 20	809	0.5+	0.8+	1998 11 11	888	0.1−	0.1+	2000 04 03	699	0.5−	0.4+
1993 07 20	809	0.5−	0.3+	1998 11 11	886	1.3+	1.2−	2000 04 04	704	(1.3+	3.3−)
1993 07 20	809	0.6−	0.5+	1998 11 11	886	0.8−	0.9+	2000 04 04	704	0.8+	0.8−
1993 07 24	809	1.4−	1.3+	1998 11 13	385	1.2−	0.3+	2000 04 04	704	1.0+	0.5−
1993 07 24	809	(2.3+	0.4−)	1998 11 13	385	0.1+	0.5+	2000 04 07	704	0.6+	0.3−
1998 08 31	704	(1.3+	2.0−)	1998 11 19	886	0.3−	0.3+	2000 04 07	704	0.0	0.8+
1998 08 31	704	0.3+	1.3−	1998 11 19	886	0.2−	0.0	2000 04 07	704	0.3+	0.5+
1998 08 31	704	0.6−	1.0+	1998 12 16	699	0.1+	0.9+	2000 04 07	704	0.2−	0.2+
1998 08 31	704	1.3−	0.6−	1998 12 16	699	0.4−	1.3+	2000 04 07	704	0.1+	0.0
1998 10 19	699	1.7+	0.8+	1998 12 16	699	0.3+	1.2+	2000 04 08	704	0.2−	0.9+
1998 10 19	699	1.3+	0.4+	1999 01 08	699	0.9−	0.4−	2000 04 08	704	0.6+	0.1−
1998 10 19	699	1.3+	0.4+	1999 01 08	699	0.1−	0.8−	2000 04 08	704	0.1−	0.4+
1998 10 25	098	0.2+	0.9+	1999 01 08	699	1.1−	0.1−	2000 04 08	704	0.2+	0.4+
1998 10 25	098	0.4+	0.6−	1999 01 15	699	0.3−	0.7−	2000 04 08	704	0.7+	0.7+
1998 11 08	905	0.7−	0.6+	1999 01 15	699	0.1−	0.3−	2000 04 10	704	0.1−	0.4+
1998 11 08	905	0.4+	0.9+	1999 01 15	699	0.7−	0.6−	2000 04 10	704	0.8−	0.3+
1998 11 09	905	(1.2−	2.7+)	2000 03 04	703	0.4−	0.2+	2000 04 10	704	0.2−	0.3+
1998 11 09	905	0.6−	0.8+	2000 03 04	703	0.1−	0.3+	2000 04 10	704	0.1−	0.3+
1998 11 10	704	0.1−	0.0	2000 03 04	703	0.6−	0.7+	2000 04 10	704	0.1−	0.3+
1998 11 10	704	1.1−	0.2+	2000 03 04	703	0.1−	0.3+				

(14468)* 1993 OS₁₂ = 1997 OV

Discovered 1993 July 19 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (*MPC* 32931)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26110668	ω	124.29487	−0.13454333	+0.99017082				
<i>a</i>	2.4243243	Ω	137.92084	−0.92684832	−0.11211312				
<i>e</i>	0.1657347	<i>i</i>	3.26840	−0.35050004	−0.08362058				
<i>P</i>	3.77	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1993 07 12	809	0.7+	1.7+	1997 07 27	910	0.8+	0.2+	2000 03 11	704	0.3−	0.1+
1993 07 12	809	(0.9+	2.3+)	1997 07 29	910	0.4+	0.2−	2000 03 11	704	0.0	0.2+
1993 07 12	809	(1.0+	2.3+)	1997 07 29	910	0.3+	0.1−	2000 03 26	699	1.1−	0.3+
1993 07 12	809	(3.2+	1.1+)	1997 07 29	910	0.2+	0.4−	2000 03 26	699	1.1−	0.2+
1993 07 12	809	(2.2+	0.8+)	1997 09 02	566	0.8−	0.5−	2000 03 26	699	0.8−	0.3+
1993 07 12	809	(3.1+	1.0+)	1997 09 02	566	1.6−	0.5−	2000 03 26	699	1.2−	0.4+
1993 07 19	809	0.2+	1.4+	1997 09 02	566	1.4−	0.4−	2000 03 29	704	0.1+	0.1+
1993 07 19	809	1.0+	0.9+	1997 11 23	327	0.3+	0.1−	2000 03 29	704	0.4+	0.4−
1993 07 19	809	0.5+	0.9+	1997 11 23	327	0.1−	1.1−	2000 03 29	704	0.2−	0.3+
1993 07 19	809	0.4−	0.1−	1997 11 23	327	0.3−	1.0−	2000 03 29	704	0.0	0.6−
1993 07 19	809	1.0−	0.4+	1997 11 23	327	1.1+	0.5−	2000 04 05	704	0.4+	0.4−
1993 07 19	809	0.9−	0.5−	1998 12 15	704	1.1+	1.2+	2000 04 05	704	0.3−	0.3−
1993 07 23	809	0.1+	0.9−	1998 12 15	704	0.9−	0.2−	2000 04 05	704	0.1−	0.3−
1993 07 23	809	0.1−	0.7−	1998 12 15	704	1.7+	1.7−	2000 04 05	704	0.3+	0.4−
1993 07 23	809	0.6+	1.4−	1998 12 15	704	1.6+	0.4−	2000 04 05	704	0.7+	0.6−
1993 07 26	809	(1.1+	3.0+)	2000 02 27	703	0.1−	0.1+	2000 04 07	699	0.8+	0.5−
1993 07 26	809	(0.5+	2.9+)	2000 02 27	703	0.1+	0.1+	2000 04 07	699	0.6+	0.6−
1993 07 26	809	(1.3+	2.9+)	2000 02 27	703	0.4−	0.4+	2000 04 07	699	0.7+	0.4−
1995 02 03	691	1.0−	0.2−	2000 02 27	703	0.5−	0.2+	2000 04 07	699	0.4+	0.2−
1995 02 03	691	1.2−	0.0	2000 03 08	704	0.0	0.3+	2000 04 08	704	0.4−	0.3−
1995 02 03	691	1.0−	0.0	2000 03 08	704	0.6−	0.9+	2000 04 08	704	0.1−	0.2−
1996 02 15	691	0.8−	1.1+	2000 03 08	704	0.2+	0.7+	2000 04 08	704	0.1−	0.3−

2000 APR. 18

M.P.C. 39839

1996 02 15	691	0.3−	0.3+	2000 03 08	704	0.7+	0.0	2000 04 08	704	0.1+	0.3−
1996 02 15	691	0.5−	0.2+	2000 03 08	704	0.0	0.3+	2000 04 08	704	0.1−	0.3−
1996 02 16	566	1.7+	0.9−	2000 03 10	704	0.1−	0.0	2000 04 10	704	0.0	0.3−
1996 02 16	566	1.6+	0.8−	2000 03 10	704	0.2−	0.2+	2000 04 10	704	0.5−	0.0
1996 02 16	566	1.8+	0.6−	2000 03 10	704	0.1−	0.1−	2000 04 10	704	0.2−	0.0
1996 03 18	566	1.2−	1.3+	2000 03 10	704	0.1−	0.2−	2000 04 10	704	0.3+	0.1+
1996 03 18	566	1.3−	1.1+	2000 03 10	704	0.3+	0.3−	2000 04 10	704	0.7+	0.4+
1996 03 18	566	1.1−	1.3+	2000 03 11	704	0.0	0.1+	2000 04 12	608	0.2−	1.1−
1997 07 27	910	0.7+	0.3+	2000 03 11	704	0.1+	0.1+	2000 04 12	608	0.5+	1.1−
1997 07 27	910	0.8+	0.3+	2000 03 11	704	0.1−	0.1+	2000 04 12	608	0.1−	0.8−

(14469)* 1993 RK = 1997 QH₂

Discovered 1993 Sept. 12 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 30661)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	200.13779	(2000.0)	P	<i>Q</i>			
<i>n</i>	0.23733113	ω	11.38462	+0.99548531	+0.07446850		
<i>a</i>	2.5836454	Ω	343.98691	−0.09479425	+0.81139544		
<i>e</i>	0.2661805	<i>i</i>	12.31809	+0.00480104	+0.57973432		
<i>P</i>	4.15	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 09 12	400	1.7−	0.2−	1997 09 03	625	(1.9−	2.5+)	1999 02 10	704	0.3−	0.4+
1993 09 12	400	0.2−	1.8+	1997 09 04	625	1.7−	1.9+	1999 02 10	704	0.5+	0.8+
1993 09 13	400	0.0	0.2−	1997 09 04	625	1.1−	1.3+	1999 02 13	704	0.7+	0.3+
1993 09 13	400	(0.4+	2.3−)	1997 09 09	625	1.5−	1.6+	1999 02 13	704	0.0	1.3+
1993 09 14	098	(1.5+	3.1−)	1997 09 09	625	1.9−	1.3+	1999 02 13	704	1.0+	0.9+
1993 09 15	098	(2.0+	1.6+)	1997 09 09	625	(2.2−	1.8+)	1999 02 13	704	0.9−	1.2+
1993 09 19	400	0.7−	0.2+	1997 09 27	566	1.0+	0.0	1999 02 13	704	1.0+	0.5−
1993 09 19	400	0.4−	0.6+	1997 09 27	566	1.0+	0.6−	2000 03 04	688	0.3+	0.2−
1993 09 19	026	0.1+	0.4+	1997 09 27	566	0.7+	0.1−	2000 03 04	688	0.3+	0.0
1993 09 20	026	(2.7+	1.3−)	1997 11 30	566	0.1−	0.4+	2000 03 27	699	0.4+	1.2+
1993 09 21	400	0.5−	0.4+	1997 11 30	566	0.4−	0.6+	2000 03 27	699	0.1+	1.9+
1993 09 21	400	1.1+	0.9−	1997 11 30	566	0.5−	0.5+	2000 03 27	699	0.3−	0.1−
1993 10 06	400	0.7+	0.1+	1998 12 21	704	(3.3+	1.8−)	2000 03 27	699	0.8+	1.4+
1993 10 06	400	0.2−	0.0	1998 12 21	704	(2.6+	0.8+)	2000 04 06	699	0.4+	0.2+
1993 10 09	026	0.0	0.3−	1998 12 21	704	1.9+	1.2+	2000 04 06	699	0.3+	0.0
1993 10 11	026	0.7+	0.3−	1999 01 19	704	(2.4+	2.0+)	2000 04 06	699	0.2−	0.1+
1997 08 30	566	0.1−	0.1+	1999 01 19	704	0.8−	0.6−	2000 04 06	699	0.1−	0.3+
1997 08 30	566	0.4−	0.0	1999 01 19	704	0.5+	0.9+	2000 04 07	704	0.5+	0.3−
1997 08 30	566	0.1+	0.2+	1999 01 19	704	(1.7+	2.2+)	2000 04 07	704	0.9+	0.4+
1997 09 01	566	0.2+	0.2+	1999 01 19	704	1.5−	1.3+	2000 04 07	704	0.3+	0.4+
1997 09 01	566	0.3+	0.1+	1999 02 10	704	0.7+	0.4+	2000 04 07	704	0.0	0.6+
1997 09 01	566	0.1+	0.2+	1999 02 10	704	0.7+	0.3−	2000 04 07	704	0.5+	0.1+
1997 09 03	625	(2.4−	2.0+)	1999 02 10	704	0.4+	0.9+				

(14470)* 1993 RV₇ = 1997 RZ_s

Discovered 1993 Sept. 15 by E. W. Elst at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 30661)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	245.33920	(2000.0)	P	<i>Q</i>			
<i>n</i>	0.23639327	ω	308.59025	+0.59346537	+0.80485020		
<i>a</i>	2.5904744	Ω	357.80214	−0.70346366	+0.51635542		
<i>e</i>	0.0922908	<i>i</i>	5.79941	−0.39107255	+0.29256323		
<i>P</i>	4.17	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 09 15	809	0.9+	0.9−	1999 01 16	704	1.0+	1.8−	2000 04 05	704	0.5+	0.2+
1993 09 15	809	0.8+	0.6−	1999 01 16	704	0.4+	0.5+	2000 04 05	704	0.4+	0.1+
1993 09 15	809	0.5−	0.2−	1999 01 16	704	(4.0−	0.8−)	2000 04 05	704	0.4+	0.2+
1993 09 17	809	0.0	0.4+	2000 03 04	703	0.5+	0.1+	2000 04 05	704	0.5+	0.1−
1993 09 17	809	1.3−	0.3+	2000 03 04	703	0.1+	0.5+	2000 04 05	704	0.0	0.6−
1993 09 17	809	1.1−	1.1+	2000 03 04	703	0.9+	1.7+	2000 04 06	704	0.0	0.2+
1993 09 18	809	(2.9+	0.1+)	2000 03 04	703	0.3+	0.2+	2000 04 06	704	0.4−	0.2−

1993 09 18	809	1.3+	0.1−	2000 03 09	704	0.2−	0.2+	2000 04 06	704	0.1+	0.2−
1993 09 18	809	0.2+	0.4−	2000 03 09	704	0.0	0.2+	2000 04 06	704	0.2+	0.2−
1993 09 22	809	(0.8+	2.8+)	2000 03 09	704	0.6+	0.3+	2000 04 06	704	0.3+	0.3−
1993 09 22	809	(0.9−	2.4+)	2000 03 09	704	0.1+	0.0	2000 04 07	699	0.4+	0.0
1993 09 22	809	(2.1−	2.5+)	2000 03 10	704	(2.7−	0.2+)	2000 04 07	699	0.0	0.1−
1997 09 12	557	0.1−	0.2+	2000 03 10	704	(2.3−	0.0)	2000 04 07	699	0.2+	0.1+
1997 09 12	557	0.3−	0.1+	2000 03 10	704	(3.5−	0.7−)	2000 04 07	704	0.2−	0.2+
1997 09 14	557	0.7+	0.2−	2000 03 10	704	(3.7−	1.8−)	2000 04 07	699	0.5+	0.1+
1997 09 14	557	0.1+	0.1+	2000 03 10	704	(4.0−	1.7−)	2000 04 07	704	0.2−	0.2−
1997 09 14	557	0.1−	0.2+	2000 03 11	704	0.2−	0.2+	2000 04 07	704	0.3−	0.3−
1997 09 14	557	0.5−	0.2−	2000 03 11	704	0.5−	0.3−	2000 04 07	704	0.6−	0.3−
1998 12 14	704	1.5+	0.2−	2000 03 11	704	0.5−	0.9−	2000 04 07	704	0.0	0.5−
1998 12 14	704	0.5−	0.2+	2000 03 11	704	0.8−	0.8−	2000 04 08	704	0.7+	0.1+
1998 12 14	704	0.4−	0.3−	2000 03 11	704	(0.6−	3.0−)	2000 04 08	704	0.3+	0.4+
1998 12 14	704	1.4−	1.4+	2000 03 27	699	0.7−	0.1+	2000 04 08	704	0.3−	0.1+
1998 12 14	704	0.2+	0.3−	2000 03 27	699	0.2−	0.1−	2000 04 08	704	0.6−	0.1+
1998 12 17	704	0.6+	1.4−	2000 03 27	699	0.1−	0.2+	2000 04 08	704	0.6−	0.6+
1998 12 17	704	0.3−	0.5−	2000 03 27	699	0.7−	0.1+	2000 04 10	704	0.1+	0.2−
1998 12 17	704	1.0−	1.0+	2000 04 02	699	0.2−	0.0	2000 04 10	704	0.8+	0.4+
1998 12 17	704	0.4−	0.7+	2000 04 02	699	0.4−	0.0	2000 04 10	704	0.9+	1.2−
1999 01 16	704	0.7+	1.5+	2000 04 02	699	0.4−	0.0	2000 04 10	704	0.1+	0.1−
1999 01 16	704	0.2−	0.8−	2000 04 02	699	0.4−	0.0	2000 04 10	704	0.2−	0.3+

(14471)* 1993 SG₁

Discovered 1993 Sept. 21 by R. H. McNaught at Siding Spring.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	203.55675	(2000.0)	P	<i>Q</i>			
<i>n</i>	0.23733999	ω	175.47252	+0.98569774	+0.16709317		
<i>a</i>	2.5835811	Ω	174.75433	−0.16116306	+0.97264636		
<i>e</i>	0.2917321	<i>i</i>	13.86257	−0.04925883	+0.16136584		
<i>P</i>	4.15	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 11 02	675	0.1+	1.5+	1997 08 12	563	0.2−	0.2−	2000 03 10	704	0.7+	0.4+
1989 11 02	675	0.2−	0.6+	1997 08 12	563	0.1−	0.2+	2000 03 10	704	0.4−	0.7+
1989 11 25	675	0.5−	0.7−	1997 09 27	566	0.3−	0.1+	2000 03 10	704	1.0−	0.1−
1989 11 25	675	0.3−	0.2−	1997 09 27	566	0.3−	0.1+	2000 03 12	704	0.2+	1.3+
1990 01 20	413	0.2−	0.2+	1997 09 27	566	0.4−	0.2+	2000 03 12	704	0.1+	0.9+
1993 09 14	413	0.9−	0.5−	1998 12 23	704	0.2+	1.3−	2000 03 12	704	0.2−	0.4+
1993 09 14	413	(0.7−	2.9+)	1998 12 23	704	0.6+	1.5−	2000 03 12	704	0.3+	0.2+
1993 09 18	675	0.9+	0.8+	1998 12 23	704	0.6+	1.4−	2000 03 29	704	0.1−	0.2+
1993 09 18	675	0.8+	0.7+	1998 12 23	704	1.3+	1.5−	2000 03 29	704	0.1−	0.7+
1993 09 21	675	0.6+	0.2+	1999 01 15	699	0.1+	0.6+	2000 03 29	704	0.4+	0.6+
1993 09 21	675	0.4+	0.1−	1999 01 15	699	0.7−	1.1+	2000 03 29	704	0.0	0.1+
1993 09 21	413	0.8−	0.1−	1999 01 15	699	0.1+	0.4−	2000 03 29	704	0.4+	0.6+
1993 09 21	413	(0.1+	2.7+)	1999 02 12	704	1.6−	0.6+	2000 04 02	699	0.4−	0.0
1993 09 26	413	0.4+	0.2−	1999 02 12	704	(1.8−	2.2+)	2000 04 02	699	0.6−	0.6+
1993 09 26	413	0.3+	0.3−	1999 02 12	704	(2.1+	0.4+)	2000 04 02	699	0.2−	0.0
1993 10 13	675	0.5−	1.0+	1999 02 12	704	0.9−	0.8+	2000 04 02	699	0.4+	0.1+
1993 10 13	675	0.4+	0.9+	1999 02 16	704	0.6+	0.7−	2000 04 04	704	1.0−	1.5+
1993 10 15	675	0.6−	0.7+	1999 02 16	704	0.8+	0.1−	2000 04 04	704	1.4+	0.6−
1993 10 15	675	0.4−	0.3+	1999 02 16	704	1.1+	1.1−	2000 04 04	704	0.3+	0.7+
1993 11 06	413	0.0	0.8+	1999 02 16	704	0.1−	1.3−	2000 04 04	704	0.1+	0.8−
1993 12 17	413	(2.3−	0.8−)	2000 02 28	120	0.2+	0.6−	2000 04 08	704	0.9−	0.7−
1994 01 23	413	0.8−	0.4+	2000 02 28	120	1.9+	0.1−	2000 04 08	704	0.1+	0.8+
1994 01 23	413	0.7−	0.5+	2000 02 29	120	0.1−	0.2−	2000 04 08	704	0.3−	0.2−
1997 07 27	127	0.1+	1.1−	2000 03 01	703	0.6+	0.3+	2000 04 08	704	0.2−	0.2+
1997 07 27	127	0.2+	1.0−	2000 03 01	703	0.2−	1.3+	2000 04 08	704	0.2+	0.1+
1997 07 29	127	1.0+	0.3−	2000 03 01	703	0.2−	0.7+	2000 04 10	704	0.8+	0.6−
1997 07 29	127	0.9+	0.3−	2000 03 01	703	0.5−	0.4+	2000 04 10	704	1.3−	0.3−
1997 08 10	563	0.1−	0.0	2000 03 08	704	0.9−	0.2−	2000 04 10	704	0.7−	0.3+
1997 08 10	563	0.3−	0.2−	2000 03 08	704	0.2−	0.2−	2000 04 10	704	0.4+	0.8−
1997 08 10	563	0.1+	0.4+	2000 03 08	704	0.5+	0.0	2000 04 10	704	0.4+	0.8+
1997 08 10	563	0.3−	0.2−	2000 03 08	704	0.3−	0.5−				
1997 08 12	563	0.8−	0.2−	2000 03 10	704	0.0	1.1+				

(14472)* 1993 SQ₁₄

Discovered 1993 Sept. 22 by T. B. Spahr at Palomar.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	120.67012		(2000.0)	P		Q	
<i>n</i>	0.36752677	ω	156.33629	+0.86561703	−0.41851979		
<i>a</i>	1.9302345	Ω	231.32860	+0.38451061	+0.90724122		
<i>e</i>	0.1192424	<i>i</i>	20.61277	+0.32071599	+0.04188747		
<i>P</i>	2.68	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 09 17	675	(3.3− 0.4−)	1998 06 19	704	0.1− 0.6−	1999 12 31	704	0.0	0.4−
1985 09 17	675	0.3+ 0.9+	1998 06 19	704	0.6− 1.1+	2000 04 07	704	0.3+ 0.3−	
1985 10 12	675	1.5+ 0.4+	1998 06 19	704	0.1− 0.3−	2000 04 07	704	0.2+ 0.3+	
1985 10 12	675	0.9+ 0.8+	1998 06 19	704	0.7− 0.3+	2000 04 07	704	0.2− 0.6−	
1985 10 13	675	1.1− 0.5−	1998 06 19	704	1.6+ 0.9−	2000 04 07	704	1.4+ 0.8+	
1985 10 13	675	2.1− 1.6+	1998 06 25	704	0.8+ 0.6+	2000 04 07	704	0.4+ 1.1+	
1993 08 15	675	0.7+ 0.5−	1998 06 25	704	1.9− 1.6+	2000 04 08	699	1.0+ 0.0	
1993 08 15	675	0.1+ 0.2−	1998 06 25	704	0.3+ 0.4−	2000 04 08	699	0.4+ 0.7+	
1993 08 17	675	0.6+ 0.2−	1998 06 25	704	0.3+ 0.6−	2000 04 08	699	0.0	0.3+
1993 08 17	675	0.9+ 0.9−	1999 12 31	704	1.0− 0.0	2000 04 08	699	0.2+ 0.3+	
1993 09 22	675	0.8− 0.0	1999 12 31	704	1.4− 0.6−				
1993 09 22	675	0.4− 0.5−	1999 12 31	704	1.0− 0.4−				

(14473)* 1993 TL₁₇ = 1991 EX₇ = 1997 RM₄

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (*MPC* 31538)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	357.63817		(2000.0)	P		Q	
<i>n</i>	0.22086291	ω	357.62109	−0.99969277	+0.02227942		
<i>a</i>	2.7105298	Ω	183.70814	−0.01904991	−0.97099050		
<i>e</i>	0.1701473	<i>i</i>	9.66867	−0.01585741	−0.23807789		
<i>P</i>	4.46	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 03 15	809	1.0− 0.6−	2000 02 02	704	0.7+ 0.0	2000 04 06	704	0.3− 0.0	
1991 03 15	809	0.6− 1.0−	2000 03 03	703	0.4− 0.3+	2000 04 06	704	0.0	0.0
1991 03 15	809	0.4− 1.2−	2000 03 03	703	0.1+ 0.3+	2000 04 06	704	0.1− 0.1+	
1993 10 09	809	1.7+ 0.1−	2000 03 03	703	0.4− 0.0	2000 04 06	704	0.2− 0.0	
1993 10 09	809	1.4+ 0.5+	2000 03 03	703	0.4− 0.0	2000 04 06	704	0.1+ 0.2−	
1993 10 09	809	0.4+ 0.4+	2000 03 09	704	0.4+ 0.3−	2000 04 07	699	0.1− 0.0	
1993 10 11	809	0.8+ 1.8−	2000 03 09	704	0.2+ 0.4+	2000 04 07	699	0.1− 0.1−	
1993 10 11	809	0.6+ 1.7−	2000 03 09	704	0.2− 0.4+	2000 04 07	704	0.2+ 0.2+	
1993 10 11	809	(1.0− 2.5−)	2000 03 09	704	0.0	2000 04 07	699	0.4− 0.0	
1993 10 20	809	(2.6+ 0.5−)	2000 03 09	704	0.1+ 0.9+	2000 04 07	704	0.4+ 0.2+	
1993 10 20	809	1.7+ 1.1−	2000 03 10	704	0.6+ 0.8−	2000 04 07	699	0.3− 0.1+	
1993 10 20	809	1.6+ 1.4−	2000 03 10	704	0.1+ 0.2+	2000 04 07	704	0.1+ 0.0	
1997 09 08	910	0.5− 0.3+	2000 03 10	704	0.6+ 1.2−	2000 04 07	704	0.1+ 0.0	
1997 09 08	910	0.8− 0.3+	2000 03 10	704	0.0	2000 04 07	704	0.2+ 0.3+	
1997 09 08	910	0.7− 0.2+	2000 03 10	704	0.7− 0.0	2000 04 08	704	0.0	0.3+
1997 09 08	910	0.8− 0.2+	2000 03 11	704	0.1+ 0.3−	2000 04 08	704	0.0	0.1−
1997 09 08	910	0.8− 0.3+	2000 03 11	704	0.1− 0.8+	2000 04 08	704	0.1− 0.1−	
1997 09 08	910	0.8− 0.4+	2000 03 11	704	0.9+ 1.1+	2000 04 08	704	0.2+ 0.4−	
1998 11 13	704	0.5− 0.5+	2000 03 11	704	1.3+ 1.7+	2000 04 08	704	0.2+ 0.1−	
1998 11 13	704	1.7− 1.4+	2000 03 11	704	(1.9+ 2.4+)	2000 04 10	704	0.2+ 0.1+	
1998 11 13	704	0.5− 0.4+	2000 04 04	704	0.4+ 0.5−	2000 04 10	704	0.3− 0.3+	
1998 11 13	704	(2.6− 1.2−)	2000 04 04	704	0.4− 0.4−	2000 04 10	704	0.4− 0.1+	
1998 11 16	699	1.0− 0.4+	2000 04 04	704	0.5− 0.5−	2000 04 10	704	0.3− 0.2−	
1998 11 16	699	0.0	2000 04 04	704	1.1− 0.3−	2000 04 10	704	0.3− 0.2−	
2000 01 11	699	0.9+ 0.2−	2000 04 05	704	1.0+ 0.0	2000 04 10	704	0.1− 0.3−	
2000 01 11	699	0.4+ 0.4+	2000 04 05	704	0.1+ 0.5+	2000 04 10	704	0.0	0.2−
2000 01 11	699	0.3+ 0.1+	2000 04 05	704	0.2+ 0.3−	2000 04 10	704	0.0	0.0
2000 02 02	704	0.2− 0.2−	2000 04 05	704	0.2+ 0.5−	2000 04 10	704	0.1− 0.5−	
2000 02 02	704	0.4+ 0.1+	2000 04 05	704	0.1− 0.6−	2000 04 10	704	0.1− 0.2+	

(14474)* 1993 TL₂₅ = 1997 RX₈

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30759)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	313.15417		(2000.0)	P		Q	
<i>n</i>	0.24278896	ω	150.32122	−0.13356292	+0.98968234		
<i>a</i>	2.5447791	Ω	111.96171	−0.91992073	−0.10434122		
<i>e</i>	0.1079891	<i>i</i>	3.20573	−0.36865538	−0.09819255		
<i>P</i>	4.06	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 09	809	(1.0− 2.9−)	1997 09 13	327	0.3− 0.2+	1997 10 04	327	0.5+ 1.7+	
1993 10 09	809	(1.4− 2.5−)	1997 09 13	327	0.8− 0.3−	1997 10 11	327	0.6− 0.3−	
1993 10 09	809	(2.0− 3.7−)	1997 09 13	327	0.3− 0.4−	1997 10 11	327	0.9− 0.0	
1993 10 11	809	1.3+ 0.4−	1997 09 13	327	0.1+ 0.1+	1997 10 13	327	0.4− 0.2+	
1993 10 11	809	1.2+ 0.2−	1997 09 23	327	0.7− 0.1−	1997 10 13	327	0.0	0.3+
1993 10 11	809	1.2+ 0.9−	1997 09 23	327	0.3− 0.1−	1997 10 13	327	1.2− 0.6+	
1993 10 20	809	0.6− 0.1−	1997 09 23	327	0.4− 0.2−	1999 03 12	561	0.3− 0.1−	
1993 10 20	809	0.2− 0.7−	1997 09 29	327	0.5− 0.6−	1999 03 12	561	0.5− 0.0	
1993 10 20	809	0.7− 0.9−	1997 09 29	327	1.3− 1.1−	1999 03 12	561	0.6− 0.1+	
1995 01 07	691	0.4+ 0.0	1997 09 29	327	0.0	2000 03 03	703	1.9+ 0.2−	
1995 01 07	691	0.0	1997 10 02	910	0.8+ 0.3+	2000 03 03	703	1.1+ 0.5+	
1995 01 07	691	0.1+ 0.3−	1997 10 02	910	0.9+ 0.3+	2000 03 03	703	0.7+ 0.3+	
1996 05 21	566	0.2− 0.9−	1997 10 02	910	1.0+ 0.3+	2000 03 03	703	(2.2+ 0.3−)	
1996 05 21	566	0.3− 0.4−	1997 10 03	910	0.9+ 0.6+	2000 04 07	704	0.2+ 0.0	
1996 05 21	566	1.2− 0.7−	1997 10 04	910	1.0+ 0.5+	2000 04 07	704	0.9− 1.1+	
1997 09 12	327	0.2− 0.2+	1997 10 04	910	0.9+ 0.4+	2000 04 07	704	0.3− 0.5−	
1997 09 12	327	0.4− 0.3+	1997 10 04	327	0.6+ 0.1+	2000 04 07	704	0.2+ 1.0+	
1997 09 12	327	0.8− 0.6+	1997 10 04	327	0.0	1.2+			

(14475)* 1993 VT = 1996 LY₃

Discovered 1993 Nov. 14 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 27558)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	228.34942		(2000.0)	P		Q	
<i>n</i>	0.22973485	ω	268.53419	+0.86766063	+0.45997983		
<i>a</i>	2.6402890	Ω	64.04697	−0.33013664	+0.81677909		
<i>e</i>	0.2141818	<i>i</i>	12.11023	−0.37171876	+0.34826781		
<i>P</i>	4.29	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 11 14	411	0.7− 1.3−	1996 06 08	809	1.2+ 0.1−	2000 03 07	704	0.5+ 0.3+	
1993 11 14	411	0.8+ 0.5−	1996 06 08	809	1.1+ 0.4−	2000 03 07	704	1.1+ 1.8−	
1993 11 14	411	0.8− 0.5−	1996 06 08	809	0.0	0.3+	2000 03 07	704	0.1+ 1.2−
1993 11 15	411	0.5+ 0.6−	1996 06 10	809	0.3+ 1.7+	2000 03 11	699	0.1− 0.4+	
1993 11 15	411	0.2− 0.6−	1996 06 10	809	0.8− 0.2+	2000 03 11	699	0.5+ 0.8+	
1993 11 15	411	0.7− 0.1−	1996 06 10	809	0.7− 1.3+	2000 03 11	699	0.4− 0.2−	
1993 11 18	411	1.1− 0.2+	1997 10 30	566	0.4− 0.9+	2000 03 11	699	1.7− 1.2+	
1993 11 18	411	1.4+ 1.4−	1997 10 30	566	0.1− 0.6+	2000 03 12	703	0.3− 0.1+	
1993 11 23	411	1.4+ 0.5+	1997 10 30	566	0.7− 0.5+	2000 03 12	703	0.2+ 0.1−	
1993 11 23	411	0.8− 0.5−	1997 11 26	566	0.2− 0.9+	2000 03 12	703	0.4− 1.3+	
1993 12 04	411	0.8− 0.7+	1997 11 26	566	0.6− 0.8+	2000 03 12	703	0.1− 0.4−	
1993 12 04	411	0.1+ 0.7+	1997 11 26	566	0.6− 0.6+	2000 03 29	704	0.2+ 0.8+	
1993 12 04	411	0.7+ 0.7+	1999 02 10	704	0.6+ 1.2−	2000 03 29	704	0.3+ 0.3−	
1993 12 14	411	0.2+ 0.6+	1999 02 10	704	(2.3+ 0.3+)	2000 03 29	704	0.6+ 0.3+	
1993 12 14	411	0.3+ 0.7+	1999 02 10	704	0.9− 1.7+	2000 03 29	704	0.7+ 0.6+	
1993 12 14	411	0.2+ 1.3+	1999 02 10	704	0.3− 0.1−	2000 03 29	704	0.4+ 0.3−	

(14476)* 1993 XW₂ = 1982 JG = 1999 BT₁₄ = 1999 CJ₉₇

Discovered 1993 Dec. 14 at Palomar in the course of the Planet-Crossing Asteroid Survey.

Id. E. Bowell (*MPC* 33939), G. V. Williams (*ibid.*)

M.P.C. 39841

(14477)* 1994 CN = 1973 AH = 1999 CZ₈₃
Discovered 1994 Feb. 2 by H. Shiozawa and T. Urata at Fujieda.

(14478)* 1994 CF₂ = 1971 DK = 1986 UW₁
Discovered 1994 Feb. 12 by T. Kobayashi at Oizumi.

(14479)* **1994 CQ₁₃ = 1997 WF₃₆ = 1999 CX₉₀**
Discovered 1994 Feb. 8 by E. W. Elst at the European Southern Observatory.

Id. A. Doppler (<i>MPC</i> 34192)											
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5											
<i>M</i> 219.38850				(2000.0)		P		Q			
<i>n</i>	0.17674034	ω	285.56377			+0.90262701		+0.42328174			
<i>a</i>	3.1446979	Ω	49.46250			-0.34495252		+0.81988645			
<i>e</i>	0.1483388	<i>i</i>	5.89722			-0.25743396		+0.38551105			
<i>P</i>	5.58	<i>H</i>	12.6			<i>G</i>	0.15	<i>U</i>		1	
Residuals in seconds of arc											
1994 02 08	809	0.1+	1.9+	1997 12 04	704	0.5+	0.0	2000 03 29	704	0.4+	0.1-
1994 02 08	809	0.1+	1.0+	1998 02 09	327	0.1+	0.1+	2000 03 29	704	0.7-	0.2-
1994 02 08	809	0.5-	0.9+	1998 02 09	327	0.3+	0.6+	2000 03 29	704	0.4+	0.1-
1994 02 10	809	0.9+	1.6+	1998 02 09	327	0.5-	0.8+	2000 04 02	699	0.1-	0.5-
1994 02 10	809	0.4-	0.8+	1999 01 19	704	1.6-	0.9-	2000 04 02	699	0.6-	0.3-
1994 02 10	809	0.1-	0.9+	1999 01 19	704	0.0	0.0	2000 04 02	699	0.7-	0.3+
1994 02 13	809	(0.9- 2.9-)		1999 01 19	704	0.2+	0.8-	2000 04 02	699	0.5-	0.3+
1994 02 13	809	(1.9- 3.1-)		1999 01 19	704	(2.0- 2.2+)		2000 04 04	704	0.1+	0.0
1994 02 13	809	(3.1- 3.9-)		1999 02 10	704	0.4+	0.3+	2000 04 04	704	0.0	0.0
1994 03 09	010	0.4-	0.0	1999 02 10	704	1.8-	0.2+	2000 04 04	704	0.5-	0.2-
1994 03 09	010	1.1+	0.8-	1999 02 10	704	0.1-	0.2-	2000 04 04	704	0.3-	0.6-

1994 03 09	010	1.6+	0.3-	1999 02 10	704	0.2+	1.5-	2000 04 04	704	0.3+	0.2-
1994 03 10	010	0.5-	1.1+	1999 02 13	704	1.5+	1.1+	2000 04 06	704	0.0	0.1-
1994 03 10	010	0.7+	0.1-	1999 02 13	704	1.7+	2.0+	2000 04 06	704	0.6+	0.4-
1994 03 10	010	0.6+	0.5-	1999 02 13	704	0.2+	0.4-	2000 04 06	704	0.5+	0.2-
1997 11 29	704	0.2-	0.0	1999 02 13	704	0.5-	1.3+	2000 04 06	704	0.1+	0.6+
1997 11 29	704	0.6+	0.3-	2000 03 01	703	0.1+	0.3-	2000 04 08	704	0.1+	0.9-
1997 11 29	704	0.0	1.0-	2000 03 01	703	0.6+	1.1-	2000 04 08	704	0.0	0.6-
1997 11 29	704	0.4+	1.5-	2000 03 01	703	0.0	0.4+	2000 04 08	704	0.8-	0.8-
1997 11 29	704	0.4-	0.9-	2000 03 01	703	0.5-	0.6-	2000 04 08	704	0.1-	0.6-
1997 11 30	566	0.3-	0.0	2000 03 08	704	0.5-	0.4+	2000 04 08	704	0.4+	1.6-
1997 11 30	566	0.2-	0.3+	2000 03 08	704	0.2-	0.1-	2000 04 10	704	0.2-	0.1-
1997 11 30	566	0.3-	0.1+	2000 03 08	704	0.1-	0.2+	2000 04 10	704	0.2-	0.2-
1997 12 04	704	2.0+	1.2-	2000 03 08	704	0.3-	0.2-	2000 04 10	704	0.2-	0.1+
1997 12 04	704	0.8-	1.1-	2000 03 08	704	0.0	0.2+	2000 04 10	704	0.0	0.1-
1997 12 04	704	(2.6+	3.3-)	2000 03 29	704	0.2-	0.2-	2000 04 10	704	0.6-	0.9-
1997 12 04	704	(2.4-	0.6-)	2000 03 29	704	0.7-	0.2+				

(14480)* 1994 PU₁ = 1998 XW₈₉ = 1999 BY₂₁

Discovered 1994 Aug. 11 by S. Otomo at Kiyosato.

Id. A. Doppler (*MPC* 33940)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	185.33479		(2000.0)		P		Q
<i>n</i>	0.28365187	ω	204.72248		+0.99612564		-0.07887234
<i>a</i>	2.2940997	Ω	159.68716		+0.08691593		+0.95032830
<i>e</i>	0.2176190	<i>i</i>	6.43313		-0.01339106		+0.30109016
<i>P</i>	3.47	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 19	809	0.8-	0.1-	1998 12 22	704	0.4+	0.8-	2000 03 08	704	0.8+	1.2-
1993 03 20	809	(4.1+	7.0-)	1998 12 22	704	0.4-	0.1-	2000 04 02	699	0.8-	0.1-
1993 03 24	809	(0.9-	4.0-)	1998 12 22	704	0.4+	0.3-	2000 04 02	699	0.8-	0.3+
1993 04 16	413	0.6+	0.5-	1998 12 22	704	0.6+	0.5-	2000 04 02	699	0.7-	0.1-
1994 08 11	894	0.4+	1.0-	1998 12 22	704	0.2+	0.6+	2000 04 02	699	0.8-	0.1+
1994 08 11	894	1.4+	1.6+	1999 01 18	704	0.3-	0.6-	2000 04 04	704	0.7+	0.3+
1994 08 15	894	0.5-	0.1+	1999 01 18	704	1.0+	0.2+	2000 04 04	704	0.1+	0.3-
1994 08 15	894	0.3+	0.5+	1999 01 18	704	0.3-	0.1+	2000 04 04	704	0.2-	0.1-
1994 08 16	894	(2.6-	0.8-)	1999 01 18	704	0.0	0.7-	2000 04 04	704	0.0	0.2+
1994 08 16	894	1.6-	0.9-	1999 01 20	704	0.3-	0.7+	2000 04 04	704	0.4+	1.0+
1998 11 23	704	(3.1+	0.7+)	1999 01 20	704	0.2+	0.7+	2000 04 08	704	0.3+	0.7-
1998 11 23	704	1.5+	1.0+	1999 01 20	704	1.1-	0.1-	2000 04 08	704	0.7+	0.1-
1998 11 23	704	0.8-	1.6-	1999 01 20	704	1.2-	0.8+	2000 04 08	704	0.1-	0.6+
1998 11 23	704	0.6-	0.4-	2000 03 01	703	0.1-	0.3-	2000 04 08	704	0.4-	0.8+
1998 11 23	704	(2.9-	0.6+)	2000 03 01	703	0.7+	0.1+	2000 04 08	704	0.1-	0.5+
1998 12 15	704	0.9-	1.0+	2000 03 01	703	0.5-	0.8-	2000 04 10	704	0.2-	0.9+
1998 12 15	704	0.6+	0.5+	2000 03 01	703	0.1+	0.0	2000 04 10	704	0.6-	0.3+
1998 12 15	704	0.2+	0.4+	2000 03 08	704	1.0+	0.5-	2000 04 10	704	0.1-	0.4+
1998 12 15	704	0.3+	0.1-	2000 03 08	704	1.2+	0.2+	2000 04 10	704	0.1+	0.5+
1998 12 15	704	0.3+	0.2-	2000 03 08	704	0.1-	1.7-	2000 04 10	704	0.1-	0.1+

(14481)* 1994 PO₁₂ = 1951 RS = 1987 SZ₂₄ = 2000 DX₁₈

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 39160)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	222.25789		(2000.0)		P		Q
<i>n</i>	0.27480462	ω	334.82841		+0.39395238		+0.91845268
<i>a</i>	2.3430777	Ω	318.34737		-0.83404480		+0.34108042
<i>e</i>	0.1774722	<i>i</i>	3.04475		-0.38622636		+0.20027187
<i>P</i>	3.59	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1951 09 04	024	0.9-	1.1-	1998 11 11	704	0.2-	1.4-	2000 02 28	691	0.6-	0.0
1951 09 05	024	2.3+	1.1-	1998 11 20	699	0.6+	0.1-	2000 02 28	691	0.7-	0.3-
1987 09 23	095	1.7-	1.4-	1998 11 20	699	0.1-	0.0	2000 02 28	691	0.6-	0.3-
1994 08 10	809	0.0	0.7+	1998 11 20	699	0.1-	0.1+	2000 02 29	704	0.7+	0.3+

1994 08 10	809	1.0-	0.3-	1999 01 13	725	1.0+	0.0	2000 02 29	704	0.2+	0.3+
1994 08 10	809	1.4-	0.0	1999 01 13	725	(2.1+	0.2-)	2000 02 29	704	0.8+	0.9+
1994 08 11	809	0.5+	0.2-	1999 01 13	725	1.2+	0.6+	2000 02 29	704	0.9+	0.9+
1994 08 11	809	0.4-	0.6+	2000 01 07	704	0.2+	0.7-	2000 02 29	704	1.0+	0.8+
1994 08 11	809	0.0	0.2+	2000 01 07	704	0.2-	0.9-	2000 03 03	704	0.3-	0.4+
1994 09 03	809	0.3+	1.5+	2000 01 07	704	1.1+	1.1-	2000 03 03	704	0.2-	0.8+
1994 09 03	809	0.1-	1.6+	2000 01 07	704	0.1+	0.6-	2000 03 03	704	0.3-	0.5+
1994 09 03	809	0.6+	1.1+	2000 02 04	704	0.8+	1.4+	2000 03 03	704	0.1+	0.7+
1994 09 04	809	(1.7+	3.4+)	2000 02 04	704	0.3+	0.5+	2000 03 03	704	0.0	0.9+
1994 09 04	809	(1.2+	3.7+)	2000 02 04	704	0.2+	1.5-	2000 03 05	704	1.0+	0.3+
1994 09 04	809	(1.4+	3.6+)	2000 02 04	704	0.3-	1.9-	2000 03 05	704	0.2-	0.4+
1998 10 19	699	0.8+	0.1+	2000 02 05	691	0.0	0.3-	2000 03 05	704	0.0	1.0+
1998 10 19	699	0.4-	1.0+	2000 02 05	691	0.1-	0.2-	2000 03 05	704	0.7-	0.8-
1998 10 19	699	0.5+	0.8+	2000 02 05	691	0.0	0.2-	2000 03 11	691	0.4-	0.5-
1998 11 11	704	1.5+	0.9-	2000 02 11	704	1.1-	1.3+	2000 03 11	691	0.4-	0.3-
1998 11 11	704	1.0-	0.4+	2000 02 11	704	0.3+	0.4+	2000 03 11	691	0.6-	0.5-
1998 11 11	704	0.9-	0.6+	2000 02 11	704	0.2-	0.4+				
1998 11 11	704	1.1-	0.4+	2000 02 11	704	0.3-	0.6+				

(14482)* 1994 PK₁₅ = 1987 RF₄ = 2000 CJ₃₀

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 38448)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	289.08319		(2000.0)		P		Q
<i>n</i>	0.28121279	ω	303.59008		-0.52657065		+0.84855273
<i>a</i>	2.3073457	Ω	294.55301		-0.75990087		-0.49711780
<i>e</i>	0.1373638	<i>i</i>	3.26374		-0.38114829		-0.18119646
<i>P</i>	3.50	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 09 02	095	0.3-	0.7+	1999 12 05	703	0.8+	0.0	2000 02 13	704	0.6-	0.7+
1994 08 10	809	0.5+	0.6+	1999 12 05	703	0.4-	0.4+	2000 02 29	704	0.0	0.1+
1994 08 10	809	0.4+	0.7+	1999 12 05	703	0.2-	1.1+	2000 02 29	704	0.2-	0.2-
1994 08 10	809	0.5-	0.7+	1999 12 05	703	1.5+	0.6+	2000 02 29	704	0.3-	0.0
1994 08 11	809	0.1+	0.4+	2000 01 12	691	0.4-	0.8-	2000 02 29	704	0.2+	0.2-
1994 08 11	809	0.7-	0.8+	2000 01 12	691	0.3-	0.7-	2000 02 29	704	0.2-	0.0
1994 08 11	809	0.7-	0.7+	2000 01 12	691	0.3-	0.7-	2000 03 03	704	(2.1-	0.8-)
1994 08 12	809	(0.9+	2.1-)	2000 02 02	704	0.0	0.0	2000 03 03	704	0.0	0.0
1994 08 12	809	0.2+	1.6-	2000 02 02	704	0.1-	0.1+	2000 03 03	704	0.3+	0.5+
1994 08 12	809	0.4-	1.4-	2000 02 02	703	0.3-	0.1-	2000 03 03	704	0.1+	0.2+
1994 08 13	809	(2.3+	1.9-)	2000 02 02	704	0.0	0.6+	2000 03 03	704	0.2+	0.4+
1994 08 13	809	1.0+	1.2-	2000 02 02	703	0.3-	0.0	2000 03 06	704	0.0	0.2+
1994 08 13	809	0.9+	1.3-	2000 02 02	704	0.4-	0.6+	2000 03 06	704	0.0	0.2+
1994 09 05	809	(2.5-	0.4-)	2000 02 02	703	0.3+	0.5-	2000 03 06	704	0.0	0.2+
1994 09 05	809	0.9-	1.0-	2000 02 02	703	0.5-	0.2+	2000 03 09	608	0.2-	0.8-
1994 09 05	809	0.1-	0.9-	2000 02 02	704	0.1-	0.4+	2000 03 09	608	0.2-	0.8-
1994 09 06	809	0.0	1.4+	2000 02 04	704	0.2-	0.2+	2000 03 09	608	0.0	1.1-
1994 09 06	809	0.1-	1.4+	2000 02 04	704	0.1+	0.1+	2000 03 11	704	0.2-	0.4+
1994 09 06	809	0.2+	0.9+	2000 02 04	704	0.3-	0.1-	2000 03 11	704	0.6+	0.3-
1998 11 11	704	0.4+	1.9-	2000 02 04	704	0.5-	0.3-	2000 03 11	704	0.5+	0.1-
1998 11 11	704	0.4+	0.1-	2000 02 04	704	0.3-	0.3-	2000 03 11	704	0.2+	0.4-
1998 11 11	704	0.2-	0.0	2000 02 12	704	0.1+	0.2-	2000 03 11	704	0.3+	0.8-
1998 11 11	704	0.5-	1.0-	2000 02 12	704	0.2+	0.9+	2000 03 14	608	0.1+	0.0
1998 11 11	704	0.9-	0.8-	2000 02 12	704	0.1+	1.6+	2000 03 14	608	0.3+	0.4-
1998 11 20	699	1.3+	0.9+	2000 02 12	704	0.2-	0.7+	2000 03 14	608	0.7+	0.7-
1998 11 20	699	0.4-	0.6+	2000 02 13	704	0.5+	0.2-				
1998 11 20	699	0.2+	1.1+	2000 02 13	704	0.3+	0.3+				

2000 APR. 18

M.P.C. 39843

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	105.66104		(2000.0)	P	Q
<i>n</i>	0.26820678	ω	225.92856	+0.44585200	-0.89510365
<i>a</i>	2.3813481	Ω	197.59399	+0.82343657	+0.41117471
<i>e</i>	0.0770204	<i>i</i>	0.44267	+0.35095328	+0.17240888
<i>P</i>	3.67	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1994 08 12	809	0.1+	0.6-	1996 02 17	010	(2.0+	3.6+)	2000 03 11	691	0.3-	0.5-
1994 08 12	809	1.6-	1.4-	1996 02 17	010	(0.9+	4.0+)	2000 03 11	704	0.4-	1.1+
1994 08 12	809	1.2-	1.4-	1998 08 31	910	0.5-	0.0	2000 03 11	691	0.3-	0.3-
1994 08 13	809	0.2-	0.3-	1998 08 31	910	0.5-	0.2-	2000 03 11	704	0.4+	0.6+
1994 08 13	809	0.1-	0.8-	1998 08 31	910	0.4-	0.4-	2000 03 11	704	(2.4+	0.8+)
1994 08 13	809	1.6-	0.1+	1998 10 18	691	0.1-	0.2+	2000 03 11	704	0.1+	1.1+
1994 09 05	809	0.2+	0.5+	1998 10 18	691	0.0	0.1+	2000 04 04	704	0.2+	1.5-
1994 09 05	809	0.3+	0.7+	1998 10 23	691	0.1+	0.4+	2000 04 04	704	0.8-	0.2-
1994 09 05	809	0.2+	0.4+	1998 10 23	691	0.4+	0.4+	2000 04 04	704	0.6+	0.2+
1994 09 06	809	1.6+	1.9+	1998 10 23	691	0.3+	0.2+	2000 04 04	704	1.4+	0.1-
1994 09 06	809	(3.1+	1.5+)	2000 03 08	691	0.2-	0.2+	2000 04 04	704	(1.8+	2.9+)
1994 09 06	809	1.4+	2.0+	2000 03 08	691	0.1-	0.2-	2000 04 05	704	0.3+	0.1+
1996 02 16	010	(0.8-	2.7+)	2000 03 08	691	0.3-	0.0	2000 04 05	704	0.0	1.3+
1996 02 16	010	(1.9-	3.1+)	2000 03 10	704	0.6-	0.3+	2000 04 05	704	0.2+	0.5-
1996 02 16	010	(1.4-	3.3+)	2000 03 10	704	0.1+	0.1+	2000 04 05	704	0.4+	1.3+
1996 02 16	691	0.1+	0.1-	2000 03 10	704	0.9-	0.5+	2000 04 05	704	0.8+	0.8-
1996 02 16	691	0.2-	0.1-	2000 03 10	704	0.1+	0.3+	2000 04 06	704	0.6+	0.3+
1996 02 16	691	0.1-	0.0	2000 03 10	704	(0.0	2.3+)	2000 04 06	704	0.2+	0.3-
1996 02 17	010	(1.2+	4.9+)	2000 03 11	691	0.4-	0.7-	2000 04 06	704	0.0	0.2+

(14484)* 1994 PU₃₂ = 1993 FP₄₄

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern

Observatory.

Id. G. V. Williams (*MPC* 24902)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	257.03185		(2000.0)	P	Q
<i>n</i>	0.28380885	ω	79.82345	+0.33315555	+0.94209052
<i>a</i>	2.2932537	Ω	209.72595	-0.89254231	+0.30199022
<i>e</i>	0.0336330	<i>i</i>	4.43896	-0.30393355	+0.14583332
<i>P</i>	3.47	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1993 03 21	809	(2.5-	1.4+)	1998 11 21	704	0.1-	1.8+	2000 04 05	704	0.1+	0.2-
1993 03 22	809	1.1+	1.0-	1998 11 21	704	0.5-	1.4+	2000 04 05	704	0.3-	0.3-
1993 03 24	809	(1.9+	2.3+)	1998 11 24	704	0.8+	0.6-	2000 04 06	704	0.3+	0.1+
1993 04 15	691	0.5-	1.1-	1998 11 24	704	0.6+	0.0	2000 04 06	704	0.1-	0.2+
1993 04 15	691	0.3-	0.8-	1998 11 24	704	0.0	1.6-	2000 04 06	704	0.2+	0.2-
1993 04 15	691	0.2-	1.1-	1998 11 24	704	(0.6-	2.4-)	2000 04 06	704	0.1+	0.1+
1993 04 17	413	1.0-	1.6+	1998 11 24	704	0.6-	1.5-	2000 04 06	704	1.1+	1.1+
1994 08 12	809	(6.6-	3.3-)	1998 12 08	699	0.0	0.1+	2000 04 07	704	0.1-	0.5+
1994 08 12	809	(6.6-	3.3-)	1998 12 08	699	0.4-	0.8-	2000 04 07	704	0.3+	0.5+
1994 08 12	809	(7.3-	3.4-)	1998 12 08	699	0.3-	0.4+	2000 04 07	704	0.3+	0.1-
1994 08 13	809	(5.7-	3.2-)	1998 12 17	120	1.0+	0.6-	2000 04 07	704	0.1-	0.8+
1994 08 13	809	(6.2-	2.5-)	1998 12 17	120	(0.1+	2.7+)	2000 04 07	704	0.1+	0.5-
1994 08 13	809	(7.4-	3.0-)	1998 12 23	120	0.0	1.2+	2000 04 07	704	0.5-	0.2-
1994 09 05	809	0.4+	0.4+	2000 03 04	703	0.1-	0.3+	2000 04 07	704	0.1-	0.6-
1994 09 05	809	0.4+	1.0+	2000 03 04	703	0.0	0.4+	2000 04 07	704	0.1+	0.4+
1994 09 05	809	0.4-	0.4+	2000 03 04	703	0.9-	0.5-	2000 04 07	704	0.1-	0.2+
1994 09 06	809	0.2+	0.7+	2000 03 04	703	0.4-	0.0	2000 04 08	704	(0.8-	2.1+)
1994 09 06	809	0.5-	0.1-	2000 04 02	699	0.5+	0.0	2000 04 08	704	0.0	1.1+
1994 09 06	809	1.0-	0.5+	2000 04 02	699	0.5+	0.7+	2000 04 08	704	0.2+	0.4-
1998 11 15	120	0.7-	0.9+	2000 04 02	699	0.7+	0.3+	2000 04 08	704	0.1-	0.0
1998 11 15	120	0.4-	1.2+	2000 04 02	699	1.0+	0.8+	2000 04 08	704	0.1+	0.2+
1998 11 18	704	0.2-	0.5+	2000 04 03	699	0.3+	1.5+	2000 04 10	704	0.3-	0.7-
1998 11 18	704	0.5-	0.2+	2000 04 03	699	0.2-	1.0+	2000 04 10	704	0.3-	0.2+
1998 11 18	704	0.6+	0.7-	2000 04 03	699	0.4-	0.7+	2000 04 10	704	0.2-	0.1-
1998 11 18	704	0.2-	1.1-	2000 04 03	699	0.8+	1.5+	2000 04 10	704	0.2+	0.6-

1998 11 21	704	0.0	0.1-	2000 04 05	704	0.2-	0.3+	2000 04 10	704	0.3+	0.4-
1998 11 21	704	0.4+	0.3+	2000 04 05	704	0.0	0.0				
1998 11 21	704	0.2+	1.6+	2000 04 05	704	0.2-	0.1-				

(14485)* 1994 RK₁₁ = 1972 TG₁ = 1998 XU₃₁

Discovered 1994 Sept. 11 by S. Otomo at Kiyosato.

Id. G. V. Williams (*MPC* 33488)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	163.09323		(2000.0)	P	Q
<i>n</i>	0.26733410	ω	68.52748	+0.99456892	-0.10227021
<i>a</i>	2.3865277	Ω	297.33801	+0.08561474	+0.90947446
<i>e</i>	0.2305727	<i>i</i>	1.24656	+0.05918421	+0.40298512
<i>P</i>	3.69	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1972 10 07	095	0.2-	0.5+	1998 12 14	704	0.5-	1.2+	2000 04 03	691	0.5-	0.3-
1992 02 09	691	0.1-	1.5+	1998 12 14	704	(1.6-	2.2+)	2000 04 03	691	0.6-	0.2-
1992 02 09	691	0.6+	0.1+	1998 12 17	704	0.5-	0.3-	2000 04 04	704	1.3+	1.2-
1994 09 11	691	0.3-	0.6+	1998 12 17	704	0.6-	0.3-	2000 04 04	704	0.2+	0.0
1994 09 11	691	0.4-	0.5+	1998 12 17	704	0.5+	0.1+	2000 04 04	704	0.3-	1.6+
1994 09 11	691	0.9-	0.8+	1998 12 17	704	0.8+	0.2+	2000 04 05	704	0.3-	0.6+
1994 09 11	894	1.0-	0.1+	1998 12 17	704	0.4+	0.6-	2000 04 05	704	0.5+	0.0
1994 09 11	894	0.0	0.4+	2000 03 11	704	0.3+	0.5+	2000 04 05	704	0.1+	0.3+
1994 09 25	894	0.0	0.2+	2000 03 11	704	1.0+	0.7-	2000 04 05	704	0.4+	0.6-
1994 09 25	894	0.4-	0.8-	2000 03 11	704	0.2+	0.1-	2000 04 06	704	0.4+	0.3+
1994 09 30	894	0.4+	0.8+	2000 03 11	704	0.2-	0.9-	2000 04 06	704	0.8+	0.4+
1994 09 30	894	1.4+	1.6+	2000 03 11	704	0.0	0.3-	2000 04 06	704	0.1+	0.9+
1994 10 10	033	0.8-	0.2+	2000 03 14	703	0.1-	0.6+	2000 04 06	704	0.2+	0.4+
1994 10 10	033	0.9-	0.7+	2000 03 14	703	0.4+	0.5+	2000 04 07	704	0.6-	0.5-
1994 10 12	033	0.1+	0.7+	2000 03 14	703	0.7-	0.5+	2000 04 07	704	0.5-	0.3+
1998 08 31	704	1.2+	1.8+	2000 03 14	703	0.3+	0.4+	2000 04 07	704	0.5-	0.8+
1998 08 31	704	0.4-	0.9-	2000 03 26	699	0.0	0.7+	2000 04 07	704	0.7-	0.5+
1998 08 31	704	0.5+	0.7+	2000 03 26	699	0.4-	0.2-	2000 04 07	704	1.1+	0.7+
1998 08 31	704	(1.3-	2.0-)	2000 03 26	699	0.2-	0.7-	2000 04 08	704	1.4+	1.3+
1998 11 10	704	0.9-	0.2+	2000 03 26	699	1.2-	0.0	2000 04 08	704	0.7+	0.8+
1998 11 10	704	0.1-	1.7-	2000 04 02	699	0.9-	0.2+	2000 04 08	704	1.2+	1.3+
1998 11 10	704	0.9-	0.1+	2000 04 02	699	0.1-	0.0	2000 04 08	704	0.8+	1.8+
1998 11 10	704	1.0+	0.5-	2000 04 02	699	0.3+	0.8+	2000 04 13	691	0.1-	0.6-
1998 12 14	704	0.2-	0.2-	2000 04 02	699	1.0+	0.3-	2000 04 13	691	0.1-	0.5-
1998 12 14	704	0.2-	0.6+	2000 04 03	691	0.6-	0.3-	2000 04 13	691	0.1-	0.5-

(14486)* 1994 TE = 1998 WD₂₂

Discovered 1994 Oct. 4 by L. Tesi and G. Cattani at San Marcello Pistoiese.

Id. S. Nakano (*MPC* 33488)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	118.62899		(2000.0)	P	Q
<i>n</i>	0.27138564	ω	258.55811	+0.43830266	-0.89871360
<i>a</i>	2.3627157	Ω	165.42083	+0.84523032	+0.40670056
<i>e</i>	0.0696060	<i>i</i>	3.25802	+0.30573924	+0.16403819
<i>P</i>	3.63	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 04 28	691	0.3-	0.9-	1994 10 22	104	1.1-	1.1+	1998 12 23	104	1.3+	0.1-
1993 04 28	691	0.1+	0.4-	1994 10 22	104	0.4-	1.0+	1998 12 23	104	1.2+	0.1-
1993 04 28	691	0.1-	0.0	1994 10 22	104	0.4-	0.8+	2000 03 09	704	0.5-	1.3+
1994 10 04	104	0.1-	1.2+	1994 10 22	104	0.5-	0.3+	2000 03 09	704	0.4+	0.7+
1994 10 04	104	0.1+	0.7+	1998 11 11	699	0.2-	0.1-	2000 03 09	704	0.0	1.0+
1994 10 04	104	0.4+	1.2+	1998 11 11	699	1.1+	0.9+	2000 03 09	704	0.0	0.4+
1994 10 04	104	0.2+	1.3+	1998 11 11	699	(0.0	2.3+)	2000 04 02	699	0.1+	0.9+
1994 10 05	104	0.9-	0.1-	1998 11 18	704	0.0	0.0	2000 04 02	699	0.7+	0.1+
1994 10 05	104	0.2-	0.2-	1998 11 18	704	0.5-	0.9-	2000 04 02	699	0.8+	0.8+
1994 10 05	104	0.3-	0.1-	1998 11 18	704	1.0-	2.0-	2000 04 02	699	0.2+	0.0
1994 10 05	104	0.0	0.1+	1998 11 18	704	0.7-	1.4-	2000 04 03	699	0.6+	0.7+
1994 10 06	104	0.7-	0.8+	1998 11 21	704	0.7-	0.7-	2000 04 03	699	1.0+	0.2+
1994 10 06	104	0.4-	0.3+	1998 11 21	704	1.2-	0.6-	2000 04 03	699	0.0	0.3+

1994 10 06	104	0.2−	0.0	1998 11 21	704	1.5−	0.2−	2000 04 03	699	0.2+	0.0
1994 10 06	104	0.3−	1.3−	1998 11 21	704	1.8−	1.1+	2000 04 05	704	0.3−	0.0
1994 10 06	104	0.0	0.9−	1998 11 21	704	1.7−	0.6+	2000 04 05	704	0.3−	0.1−
1994 10 07	104	0.6+	0.6−	1998 11 24	704	0.7−	0.7+	2000 04 05	704	0.3−	0.4+
1994 10 07	104	0.6+	1.3+	1998 11 24	704	2.0+	1.1+	2000 04 05	704	0.2+	0.0
1994 10 07	104	0.2+	1.1+	1998 11 24	704	0.3+	0.4+	2000 04 05	704	0.4−	0.3+
1994 10 10	104	0.6+	0.2+	1998 11 24	704	1.5+	1.3+	2000 04 06	704	0.4−	1.0+
1994 10 10	104	0.4+	0.2+	1998 12 11	699	0.4−	0.1+	2000 04 06	704	0.3+	0.5+
1994 10 10	104	0.3+	0.0	1998 12 11	699	1.3+	0.5+	2000 04 06	704	0.5+	0.4+
1994 10 10	104	0.3−	0.3−	1998 12 11	699	1.3+	1.0−	2000 04 06	704	0.2+	0.5+
1994 10 11	104	0.1+	0.6+	1998 12 18	104	1.2−	0.7+	2000 04 06	704	0.1−	0.5+
1994 10 11	104	0.2−	0.4+	1998 12 18	104	0.8−	0.6+	2000 04 07	704	0.4−	0.0
1994 10 11	104	0.6−	0.0	1998 12 18	104	0.1−	0.7+	2000 04 07	704	0.8+	0.4+
1994 10 12	104	0.3−	0.6−	1998 12 18	104	0.4+	0.6+	2000 04 07	704	0.7−	0.6+
1994 10 12	104	(0.7+	3.2−)	1998 12 23	104	1.5+	0.0	2000 04 07	704	1.0+	0.8+
1994 10 12	104	(0.1−	5.1−)	1998 12 23	104	0.8+	0.4+				

(14487)* 1994 TU₂ = 1997 LZ₈

Discovered 1994 Oct. 2 by K. Endate and K. Watanabe at Kitami.

Id. G. V. Williams (*MPC* 30276)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	186.41478	(2000.0)	P	Q	
<i>n</i>	0.26861566	<i>ω</i>	149.26372	+0.98275250	+0.18393318
<i>a</i>	2.3789309	<i>Ω</i>	200.16397	−0.17894230	+0.91974381
<i>e</i>	0.2564869	<i>i</i>	3.18199	−0.04666020	+0.34675626
<i>P</i>	3.67	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1994 10 02	400	0.3−	0.1−	1997 05 04	809	(0.4+	4.1+)	2000 03 11	704	0.0	0.6−
1994 10 02	400	0.4+	0.2−	1997 06 07	809	1.7+	0.0	2000 03 11	704	0.5−	0.3+
1994 10 03	400	0.1−	0.7+	1997 06 07	809	0.8+	0.9−	2000 03 11	704	0.4−	1.1+
1994 10 03	400	1.0−	0.3−	1997 06 07	809	1.4−	0.5+	2000 03 11	704	0.4+	0.5+
1994 10 26	400	1.5+	0.3+	1997 06 08	809	1.1+	1.4−	2000 03 11	704	0.4−	0.2+
1994 10 26	400	(2.7−	1.0+)	1997 06 08	809	0.0	1.7−	2000 03 25	691	0.6−	0.2+
1994 11 01	691	0.4−	0.1−	1997 06 08	809	0.0	1.3−	2000 03 25	691	0.5−	0.1−
1994 11 01	691	0.5−	0.0	1998 12 11	360	0.3+	0.5−	2000 03 25	691	0.6−	0.3+
1994 11 01	691	0.6−	0.0	1998 12 11	360	0.7+	0.5−	2000 04 02	691	0.9−	1.2−
1996 01 28	413	0.5+	0.1−	1998 12 11	360	0.5+	0.4−	2000 04 02	691	0.1+	0.2−
1996 01 28	413	0.3+	0.0	1998 12 15	704	1.1+	1.7−	2000 04 02	691	0.1−	0.1+
1996 01 28	413	0.1+	0.0	1998 12 15	704	1.0−	1.0−	2000 04 05	704	0.5+	1.3+
1996 01 28	413	0.5+	0.2−	1998 12 15	704	0.5−	0.5+	2000 04 05	704	0.3+	1.6+
1997 05 04	809	1.3−	0.4−	1998 12 15	704	1.0+	1.4+	2000 04 05	704	0.4+	1.4+
1997 05 04	809	(3.0−	0.4−)	1998 12 22	704	(2.9+	0.7−)	2000 04 05	704	(0.7−	2.1+)
1997 05 04	809	(3.0−	0.7−)	1998 12 22	704	0.2+	1.9−	2000 04 07	691	0.2−	0.3−
1997 05 04	809	(0.5−	4.6+)	1998 12 22	704	0.8+	0.2+	2000 04 07	691	0.1+	0.1−
1997 05 04	809	(0.1−	3.6+)	1998 12 22	704	1.3−	0.7−	2000 04 07	691	0.3−	0.0

(14488)* 1994 TF₁₅ = 1964 TT = 1996 DK₃

Discovered 1994 Oct. 13 by S. Otomo at Kiyosato.

Id. G. V. Williams (*MPC* 26905, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	258.83713	(2000.0)	P	Q	
<i>n</i>	0.29573012	<i>ω</i>	3.21938	+0.76576773	+0.64239730
<i>a</i>	2.2312026	<i>Ω</i>	316.75934	−0.59103611	+0.68431831
<i>e</i>	0.2225306	<i>i</i>	2.54519	−0.25352733	+0.34501326
<i>P</i>	3.33	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1964 10 08	330	(11.5+	0.4−)	1996 02 20	566	0.2+	0.1+	2000 03 14	704	0.6+	0.6+
1994 09 30	675	0.0	0.7+	1996 02 20	566	0.8+	0.3−	2000 03 14	704	0.5+	0.0
1994 09 30	675	0.3−	0.7+	1996 02 20	566	0.4+	0.0	2000 03 14	704	0.8−	0.1−
1994 10 05	049	(2.3+	0.6−)	1997 11 29	688	0.4+	0.5+	2000 03 14	704	0.7−	0.2−
1994 10 06	049	1.1+	0.6−	1997 11 29	688	0.6+	0.7+	2000 03 30	704	0.9+	0.6−
1994 10 13	894	0.2+	0.1+	1997 12 27	688	0.6−	0.4+	2000 03 30	704	0.3−	0.6−
1994 10 13	894	0.8−	1.1+	1997 12 27	688	0.4−	0.1+	2000 03 30	704	0.8−	0.6−

1994 10 24	894	0.3+	0.2+	1999 01 16	704	1.7−	0.3−	2000 04 07	704	0.1+	0.3+
1994 10 25	894	0.6−	0.7+	1999 01 16	704	0.1+	0.4−	2000 04 07	704	0.0	0.4+
1994 10 25	894	0.1−	0.9+	1999 01 16	704	0.3+	0.7−	2000 04 07	704	0.5−	0.2−
1994 11 06	675	0.7−	1.2−	1999 01 16	704	0.7+	0.5+	2000 04 07	704	0.2−	0.1−
1994 11 06	675	0.3−	0.7−	1999 01 19	704	0.6+	0.2−	2000 04 07	704	0.3−	0.4+
1996 02 10	691	0.2−	0.2−	1999 01 19	704	0.1+	0.7+	2000 04 08	704	0.0	0.4+
1996 02 10	691	0.2+	0.6−	1999 01 19	704	0.2−	1.0−	2000 04 08	704	0.0	0.3+
1996 02 10	691	0.2−	0.9−	1999 01 19	704	0.1−	0.4+	2000 04 08	704	0.2−	0.3+
1996 02 16	010	0.4−	1.1+	1999 01 19	704	(3.3−	1.0−)	2000 04 08	704	0.3−	0.2+
1996 02 16	010	0.2−	1.9+	2000 02 10	704	1.9+	0.9+	2000 04 08	704	0.7−	0.1+
1996 02 16	010	0.1+	0.3+	2000 02 10	704	1.0+	1.7+	2000 04 12	608	(1.6+	4.1−)
1996 02 17	010	(1.7+	2.1+)	2000 02 10	704	1.1+	0.2+	2000 04 12	608	(0.8+	3.8−)
1996 02 17	010	(2.4+	2.0+)	2000 02 10	704	0.5−	0.5+	2000 04 12	608	(0.5+	5.1−)
1996 02 17	010	(2.4+	2.3+)	2000 03 14	704	1.2+	0.1−				

(14489)* 1994 UW = 1979 SD₁₃

Discovered 1994 Oct. 31 by Y. Shimizu and T. Urata at the Nachi-Katsuura Observatory.

Id. S. Nakano (*MPC* 24399)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Nakano			
<i>M</i>	173.68915	(2000.0)	P	Q	
<i>n</i>	0.26582539	<i>ω</i>	359.53520	+0.97535186	−0.21923634
<i>a</i>	2.3955491	<i>Ω</i>	13.20944	+0.20279842	+0.84603541
<i>e</i>	0.1508302	<i>i</i>	6.27680	+0.08695718	+0.48596246
<i>P</i>	3.71	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1953 08 14	675	0.3−	0.1−	1998 11 28	744	(0.1−	2.3+)	2000 04 02	699	0.0	1.1+
1953 08 14	675	0.3−	0.1−	1998 11 28	744	0.3−	0.4+	2000 04 02	699	0.7+	0.8+
1979 09 20	675	0.2−	0.8+	1998 11 28	744	0.1−	0.1−	2000 04 02	699	1.0−	1.5+
1979 09 21	675	0.0	0.5+	1998 12 14	704	1.0−	0.3−	2000 04 02	699	0.1+	0.2+
1992 01 31	691	0.5+	0.3−	1998 12 14	704	0.2+	0.9−	2000 04 03	699	0.1−	0.2+
1992 01 31	691	1.1+	0.8−	1998 12 14	704	0.9+	0.9−	2000 04 03	699	0.2+	0.3−
1992 01 31	691	0.9+	0.1−	1998 12 14	704	0.2+	1.5+	2000 04 03	699	0.5+	0.4+
1994 10 03	675	0.6−	1.1+	1998 12 14	704	(3.6−	2.5+)	2000 04 03	699	0.7−	0.2+
1994 10 03	675	0.4+	0.0	1998 12 19	385	1.0−	0.6−	2000 04 05	704	0.3+	0.3+
1994 10 31	905	1.0+	0.4+	1998 12 26	888	0.1+	0.5+	2000 04 05	704	0.5+	0.3+
1994 10 31	905	1.1+	0.4+	1998 12 26	888	0.6+	0.6+	2000 04 05	704	0.3+	0.6+
1994 11 03	905	0.1−	0.6+	1999 01 16	704	(0.8+	2.8+)	2000 04 05	704	1.2+	1.3+
1994 11 03	905	0.8−	0.2+	1999 01 16	704	0.8−	0.6+	2000 04 05	704	0.0	1.2+
1994 11 11	385	0.4−	0.6+	1999 01 16	704	0.0	0.3+	2000 04 07	704	0.4+	0.2+
1994 11 11	385	0.2−	0.0	1999 01 16	704	1.2−	1.9−	2000 04 07	704	0.1+	1.0+
1994 11 11	385	0.5−	0.0	1999 01 16	704	0.5−	1.9−	2000 04 07	704	0.5+	0.5−
1994 11 25	385	0.4+	0.5+	2000 03 09	704	0.3+	0.4−	2000 04 07	704	0.4−	0.0
1994 11 25	385	0.4−	0.1−	2000 03 09	704	0.5−	0.6−	2000 04 07	704	0.0	0.6−
1994 11 25	385	0.7−	0.4+	2000 03 09	704	1.6+	0.2−	2000 04 08	704	0.6+	0.3−
1994 11 29	675	1.4−	1.1+	2000 03 09	704	0.6+	0.5+	2000 04 08	704	0.2+	0.2+
1994 11 29	675	0.5+	1.2+	2000 03 25	691	0.7−	0.0	2000 04 08	704	0.6−	0.7+
1995 01 01	385	0.1+	0.5−	2000 03 25	691	0.5−	0.0				
1995 01 01	385	0.0	0.5+	2000 03 25	691	0.6−	0.0				

(14490)* 1994 US₂ = 1986 RR₁₆ = 1998 VA₃₁

Discovered 1994 Oct. 31 by S. Ueda and H. Kaneda at Kushiro.

1992 03 30	691	0.3+	0.9-	1998 11 10	704	0.6+	1.4-	2000 02 10	704	0.5-	1.0+
1994 10 31	399	1.3+	0.3+	1998 11 10	704	(2.4-	2.7-)	2000 02 10	704	0.5+	0.4+
1994 10 31	399	1.1-	1.9+	1998 11 11	704	0.4+	0.0	2000 04 05	704	0.5+	0.6+
1994 11 07	399	1.2-	1.5+	1998 11 11	704	0.9+	0.3+	2000 04 05	704	0.2+	0.6+
1994 11 07	399	0.1+	0.1-	1998 11 11	704	1.0-	1.1-	2000 04 05	704	0.2+	0.6+
1994 11 23	399	(2.5-	0.4-)	1998 12 14	704	1.1-	0.3+	2000 04 05	704	0.1-	0.3+
1994 11 23	399	1.2-	1.2+	1998 12 14	704	0.5-	0.2-	2000 04 05	704	0.2-	0.4-
1996 03 26	566	1.8-	1.2-	1998 12 14	704	0.1-	0.1+	2000 04 06	704	0.3+	1.0+
1996 03 26	566	1.2-	0.8-	1998 12 14	704	0.6+	0.8+	2000 04 06	704	0.6+	0.3+
1996 03 26	566	1.1-	1.2-	1998 12 14	704	1.1-	0.6+	2000 04 06	704	1.0-	0.5+
1998 08 31	704	0.7+	1.0-	1998 12 17	704	0.8+	0.0	2000 04 06	704	0.2+	0.3+
1998 08 31	704	0.5+	0.1-	1998 12 17	704	0.8-	0.2-	2000 04 07	704	1.4+	0.1-
1998 08 31	704	(2.8+	2.6-)	1998 12 17	704	0.5+	0.4-	2000 04 07	704	1.0+	0.5+
1998 08 31	704	(1.9+	2.6-)	1998 12 17	704	(2.2+	0.3-)	2000 04 07	704	0.9+	1.7+
1998 08 31	704	0.3+	1.0-	1998 12 17	704	0.4-	0.6+	2000 04 07	704	0.1+	0.6+
1998 08 31	704	1.0+	0.8-	1999 01 21	071	0.3-	0.2-	2000 04 07	704	0.4-	0.9+
1998 08 31	704	0.2+	0.6+	1999 01 21	071	0.3-	0.2-	2000 04 10	608	0.3+	0.7-
1998 08 31	704	0.2+	1.7-	1999 01 21	071	0.5+	0.2+				

(14491)* 1994 VY₂ = 1972 TF₆

Discovered 1994 Nov. 4 by K. Endate and K. Watanabe at Kitami.

Id. A. Doppler (*MPC* 34508)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	66.48661	(2000.0)	P	Q	
<i>n</i>	0.22500686	ω	173.99999	+0.30212616	-0.94840141
<i>a</i>	2.6771470	Ω	258.38490	+0.87047197	+0.31561371
<i>e</i>	0.3556508	<i>i</i>	5.63620	+0.38858504	+0.03037684
<i>P</i>	4.38	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1972 10 06	095	0.5-	1.2+	1996 04 19	118	0.4-	0.0	1998 09 18	704	0.8+	0.1-
1994 11 04	400	0.9+	0.0	1996 04 19	118	0.3-	0.3+	1998 09 18	704	(2.3+	0.3-)
1994 11 04	400	0.6-	0.3-	1996 04 20	118	0.6+	0.3+	1998 09 18	704	1.3+	0.6-
1994 11 06	400	0.7-	0.0	1998 08 17	704	0.5-	0.4+	1998 09 18	704	0.3+	0.9-
1994 11 06	400	0.3-	0.8-	1998 08 17	704	0.8-	0.5+	2000 03 03	703	0.5-	0.4+
1994 11 30	400	0.4-	0.4+	1998 08 17	704	0.4-	0.4-	2000 03 03	703	0.1+	1.1+
1994 11 30	400	0.9+	0.2+	1998 08 17	704	0.3+	0.8+	2000 03 03	703	1.1-	1.7+
1994 12 09	408	0.3+	1.0+	1998 08 17	704	0.7-	0.3+	2000 03 03	703	1.1+	1.0+
1994 12 09	408	0.7+	0.5+	1998 08 23	704	1.5-	0.3+	2000 03 15	461	0.6+	0.4-
1995 01 09	691	0.3-	0.1+	1998 08 23	704	(2.3-	0.1+)	2000 03 15	461	0.0	0.5-
1995 01 09	691	0.3-	0.2+	1998 08 23	704	1.2-	1.5-	2000 03 15	461	0.7+	0.5-
1995 01 09	691	(2.3+	0.8+)	1998 08 23	704	0.5-	1.4+	2000 04 07	704	0.1-	0.8+
1995 02 03	801	2.0-	0.9+	1998 08 23	704	0.8-	0.3-	2000 04 07	704	0.6+	0.1+
1995 02 03	801	1.0-	0.3-	1998 09 14	704	1.0+	1.1+	2000 04 07	704	0.3+	0.9+
1995 03 04	801	1.1+	0.0	1998 09 14	704	0.1-	0.5+	2000 04 07	704	0.5+	0.0
1995 03 04	801	0.3+	0.4-	1998 09 14	704	0.6+	0.7+	2000 04 07	704	0.6-	0.6-
1995 03 29	801	0.0	0.2-	1998 09 14	704	0.5+	0.4+				
1995 03 29	801	1.1+	1.1-	1998 09 14	704	0.9+	0.2-				

(14492)* 1994 VM₆ = 1971 QQ₁ = 1971 SE₄ = 2000 AH₁₁₈

Discovered 1994 Nov. 4 by K. Endate and K. Watanabe at Kitami.

Id. A. Doppler (*MPC* 39163), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	77.15255	(2000.0)	P	Q	
<i>n</i>	0.21713248	ω	142.69489	+0.91910837	-0.37844933
<i>a</i>	2.7414870	Ω	239.88654	+0.32400932	+0.88428556
<i>e</i>	0.2491169	<i>i</i>	7.28010	+0.22418245	+0.27352359
<i>P</i>	4.54	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1971 08 30	095	(6.0-	5.2+)	1998 08 24	704	0.5-	1.1-	2000 01 07	704	0.5-	0.0
1971 09 26	095	(10.1-	3.5-)	1998 08 24	704	1.4-	0.4-	2000 01 07	704	0.5-	0.2+
1991 02 08	675	1.5-	1.3-	1998 08 24	704	0.4-	1.0+	2000 01 07	704	0.0	0.2+
1991 02 08	675	0.6-	0.1-	1998 08 24	704	0.3-	1.0+	2000 01 07	704	0.1-	0.1+
1994 11 04	400	1.1+	0.2-	1999 10 21	704	0.0	0.3+	2000 02 02	703	0.3+	0.3+

1994 11 04	400	0.3+	0.1+	1999 10 21	704	0.6-	0.1-	2000 02 02	703	0.0	0.6+
1994 11 05	675	0.1+	0.5-	1999 10 21	704	1.4+	0.1+	2000 02 02	703	1.6-	1.0-
1994 11 05	675	0.0	0.5-	1999 10 21	704	0.2+	0.4-	2000 02 02	703	(2.6+	1.8-)
1994 11 06	400	1.3-	1.1-	1999 10 21	704	1.3+	0.2-	2000 02 04	704	0.1-	1.0+
1994 11 06	400	1.3+	0.2+	1999 11 17	704	0.2+	0.3-	2000 02 04	704	0.3+	0.6+
1994 11 29	400	0.7-	0.4+	1999 11 17	704	0.8-	0.5+	2000 02 04	704	1.0+	0.3-
1994 11 29	400	0.3+	1.1+	1999 11 17	704	0.1-	0.7+	2000 02 04	704	0.5+	1.2+
1997 05 07	704	0.4+	0.2-	1999 11 17	704	0.6-	0.2+	2000 02 04	704	0.4+	0.0
1997 05 07	704	1.3+	0.4-	1999 11 17	704	0.6-	0.7-	2000 02 12	704	0.9+	0.3-
1997 05 07	704	0.4+	0.4+	2000 01 05	704	0.2-	0.3+	2000 02 12	704	0.3+	0.9+
1997 05 07	704	0.0	0.4-	2000 01 05	704	0.2+	0.3-	2000 02 12	704	0.2+	0.5+
1998 07 15	699	0.3+	0.1+	2000 01 05	704	0.1-	0.2-	2000 02 12	704	0.5+	0.0
1998 07 15	699	0.2+	0.6+	2000 01 05	704	0.2-	0.1+	2000 02 12	704	0.1+	0.5+
1998 07 15	699	0.3+	0.7+	2000 01 05	704	0.5-	0.3-				
1998 08 24	704	0.6-	0.2+	2000 01 07	704	0.1+	0.4+				

(14493)* 1994 WP₃

Discovered 1994 Nov. 26 by Y. Shimizu and T. Urata at the Nachi-Katsuura

Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Nakano			
<i>M</i>	198.15087	(2000.0)	P	Q	
<i>n</i>	0.27069432	ω	261.09941	+0.98652978	+0.04740531
<i>a</i>	2.3667368	Ω	96.07337	+0.01542401	+0.92586790
<i>e</i>	0.2571756	<i>i</i>	9.05868	-0.16285295	+0.37486180
<i>P</i>	3.64	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1994 11 26	691	0.1-	0.6+	1997 06 08	118	0.2+	0.0	1999 02 10	704	0.8-	0.2+
1994 11 26	691	0.1-	0.5+	1997 06 08	118	0.5-	0.5-	1999 02 10	704	0.1+	1.0-
1994 11 26	691	0.3-	0.2+	1997 06 08	118	0.0	0.2-	1999 02 10	704	(0.2-	3.9-)
1994 11 26	905	1.0-	1.8+	1997 07 04	385	0.3+	1.6+	1999 02 10	704	(2.3-	2.4-)
1994 11 27	905	0.6+	0.4-	1997 07 04	385	1.5-	0.0	2000 03 11	699	0.1-	0.1+
1994 11 27	905	0.3+	0.1+	1998 12 16	684	0.4-	0.4-	2000 03 11	699	0.2+	1.1+
1994 11 28	691	0.2+	0.5+	1998 12 16	684	0.7-	0.2-	2000 03 11	699	0.9+	0.4+
1994 11 28	691	0.0	0.3+	1998 12 17	684	0.4-	0.1-	2000 03 11	699	0.1+	0.3+
1994 11 28	691	0.0	0.2+	1998 12 17	684	0.3-	0.4-	2000 03 29	704	0.3+	0.4-
1994 12 06	905	0.4+	0.7+	1998 12 27	888	0.5-	0.3-	2000 03 29	704	0.6+	0.6+
1994 12 06	905	0.2-	0.6+	1998 12 27	888	0.4-	0.5-	2000 03 29	704	0.1-	0.7+
1994 12 23	385	0.8-	0.3+	1999 01 19	704	0.8+	1.3-	2000 03 29	704	0.7+	0.3+
1994 12 23	385	0.3-	0.5+	1999 01 19	704	0.1-	0.0	2000 03 29	704	1.0+	0.3-
1994 12 23	385	0.2-	0.5+	1999 01 19	704	1.8-	0.0	2000 04 05	704	0.1+	1.1+
1995 01 01	385	1.0-	0.1-	1999 01 19	704	1.3+	0.4-	2000 04 05	704	0.2+	0.2-
1995 01 01	385	0.4+	0.0	1999 01 19	704	0.1-	0.1-	2000 04 05	704	0.4-	0.1+
1995 01 29	385	0.9-	0.4-	1999 01 22	888	0.0	0.1-	2000 04 08	704	0.1+	0.0
1995 01 29	385	0.7+	0.1-	1999 01 22	888	0.8+	0.4-	2000 04 08	704	0.1-	0.6+
1997 06 05	118	0.4+	0.4-	1999 02 07	888	0.5+	0.2+	2000 04 08	704	0.4+	0.1+
1997 06 05	118	0.1+	0.2-	1999 02 07	888	1.3+	0.9-	2000 04 08	704	0.1+	0.2+
1997 06 05	118	0.1+	0.4-	1999 02 10	704	0.1+	0.2+	2000 04 08	704	0.2-	0.7+

(14494)* 1994 YJ₂ = 1991 AT₁

Discovered 1994 Dec. 30 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 24754)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	11.45483		(2000.0)	P	Q
n	0.23692415	ω	104.19871	-0.91489649	+0.32310111
a	2.5866033	Ω	95.09572	-0.39448582	-0.84284234
e	0.1131499	i	14.06207	+0.08570502	-0.43037479
P	4.16	H	13.2	G 0.15	U 2

1995 01 02	399	1.8−	0.4−	1999 01 16	704	1.6+	0.2−	2000 03 09	704	0.1−	0.3+
1995 01 02	399	1.2−	0.2+	1999 01 16	704	1.0+	0.7+	2000 03 09	704	0.3+	0.1+
1995 01 27	399	0.7+	0.7−	1999 01 16	704	1.4+	0.3−	2000 03 09	704	0.1−	0.1+
1995 01 27	399	1.3−	0.5−	1999 01 16	704	(4.7−	0.4+)	2000 04 12	704	0.9+	0.8−
1995 01 28	399	0.6−	1.4+	1999 01 18	704	1.0+	1.5−	2000 04 12	704	0.9−	0.6+
1995 01 28	399	0.8+	0.0	1999 01 18	704	0.1+	0.4+	2000 04 12	704	(1.0−	3.2+)
1997 12 28	688	0.6−	0.7+	1999 01 18	704	0.2−	1.4−	2000 04 13	704	0.5+	0.0
1997 12 28	688	0.3−	1.1+	1999 01 18	704	0.7−	0.6−	2000 04 13	704	0.4−	0.7+
1998 12 15	704	0.0	0.1+	1999 01 18	704	0.8−	1.0−	2000 04 13	704	(2.9−	2.0+)
1998 12 15	704	0.0	0.6−	1999 01 18	704	1.7+	0.1+				
1998 12 15	704	0.4−	0.7−	1999 01 18	704	0.4−	1.2+				

(14495)* 1995 AK₁ = 1999 AH₃

Discovered 1995 Jan. 6 by M. Hirasawa and S. Suzuki at Nyukasa.

Id. G. V. Williams (*MPC* 33691)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				(2000.0)		P	Q
<i>M</i>	97.38268						
<i>n</i>	0.22724223	ω	338.14309			+0.49768995	−0.85108105
<i>a</i>	2.6595614	Ω	81.65894			+0.81871535	+0.39730809
<i>e</i>	0.3128780	<i>i</i>	9.73070			+0.28637370	+0.34323073
<i>P</i>	4.34	<i>H</i>	13.0			<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

1989 08 29	675	0.3+	0.8+	1999 01 07	704	0.0	0.4+	2000 04 05	704	0.1+	0.4+
1989 08 29	675	0.0	1.1−	1999 01 07	704	0.2−	0.4+	2000 04 05	704	0.5+	0.4+
1995 01 06	408	(0.4+	2.3−)	1999 01 07	704	0.1+	0.7+	2000 04 05	704	0.2+	0.5+
1995 01 06	408	1.4+	0.1−	1999 01 07	704	0.5−	0.5+	2000 04 05	704	0.2+	0.7+
1995 01 07	408	0.9−	1.1−	1999 01 11	704	0.7+	0.5+	2000 04 05	704	1.3−	1.0+
1995 01 07	408	(0.5+	2.8−)	1999 01 11	704	0.7+	0.8+	2000 04 08	704	0.4−	0.5+
1995 01 23	409	0.2−	0.4+	1999 01 11	704	1.0+	1.3+	2000 04 08	704	0.3+	0.8+
1995 01 23	409	0.2−	0.6−	1999 01 11	704	0.0	1.0+	2000 04 08	704	0.4+	0.3+
1995 01 31	409	0.4−	1.2−	1999 01 11	704	0.2+	0.6+	2000 04 08	704	0.2+	0.6+
1995 01 31	409	0.3−	0.8−	1999 02 02	699	0.0	0.3−	2000 04 08	704	0.4+	0.6+
1998 11 13	704	1.3+	0.7−	1999 02 02	699	0.8−	0.5−	2000 04 10	608	0.1−	0.8−
1998 11 13	704	0.4−	0.3−	1999 02 02	699	0.6−	0.4+	2000 04 10	608	0.2−	0.8−
1998 11 13	704	0.8−	0.6+	2000 03 07	704	0.0	0.3+	2000 04 10	608	0.1−	1.0−
1998 11 13	704	(3.4+	3.0+)	2000 03 07	704	0.0	0.1+	2000 04 13	704	0.6+	0.1+
1998 11 13	704	0.3−	1.3+	2000 03 07	704	0.5−	0.5−	2000 04 13	704	0.7+	0.5+
1998 12 08	704	1.1−	1.8−	2000 03 29	704	1.0+	1.2+	2000 04 13	704	0.3−	0.3+
1998 12 08	704	0.2+	0.9−	2000 03 29	704	0.4+	0.1+	2000 04 13	704	0.3+	0.3−
1998 12 08	704	1.0−	0.5+	2000 03 29	704	0.0	0.1−	2000 04 13	704	0.1+	0.3+
1998 12 08	704	0.1+	0.9−	2000 03 29	704	0.2+	0.6−				
1998 12 08	704	0.2−	1.2+	2000 03 29	704	0.5−	0.7−				

(14496)* 1995 BK₄ = 1988 XY₅ = 2000 AC₁₈₈

Discovered 1995 Jan. 28 by S. Ueda and H. Kaneda at Kushiro.

Id. A. Doppler (*MPC* 39164)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				(2000.0)		P	Q
<i>M</i>	7.56787						
<i>n</i>	0.17774180	ω	306.77876			+0.12896135	−0.97692726
<i>a</i>	3.1328745	Ω	134.85060			+0.96905011	+0.087770926
<i>e</i>	0.1873364	<i>i</i>	13.89434			+0.21050142	+0.19473114
<i>P</i>	5.55	<i>H</i>	13.3			<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

1988 12 08	808	0.4+	0.2+	1999 10 31	703	0.4−	0.3+	2000 01 08	704	0.7+	0.1+
1988 12 08	808	0.2−	0.3−	1999 10 31	703	0.0	0.0	2000 01 08	704	0.9+	0.4−
1995 01 28	399	0.5+	2.0+	1999 11 06	704	0.1−	0.3−	2000 01 11	704	0.4+	0.0
1995 01 28	399	0.1+	1.2+	1999 11 06	704	0.2−	0.1−	2000 01 11	704	0.1+	0.0
1995 02 03	399	(1.0+	2.9+)	1999 11 06	704	0.3−	0.0	2000 01 11	704	0.1+	0.1−
1995 02 03	399	(0.3−	2.5+)	1999 11 06	704	0.3−	0.5−	2000 01 11	704	0.2+	0.1+
1995 02 06	399	0.2+	0.4+	1999 11 06	704	0.6−	0.9−	2000 01 11	704	0.2+	0.4+
1995 02 06	399	0.9−	0.1+	1999 11 17	699	1.1−	0.0	2000 02 02	703	0.2−	0.4+
1998 08 17	704	0.0	0.1+	1999 11 17	699	0.4−	0.0	2000 02 02	703	0.6−	0.1+
1998 08 17	704	0.5+	0.8−	1999 11 17	699	0.2−	0.2+	2000 02 02	703	0.4−	0.3+

1998 08 17	704	0.1−	0.6−	1999 12 03	704	0.2+	0.6−	2000 02 02	703	0.0	0.4+
1998 08 17	704	0.6−	0.2+	1999 12 03	704	0.1+	0.8−	2000 02 04	704	0.6+	0.5+
1998 08 17	704	0.5−	0.9+	1999 12 03	704	0.3−	0.7−	2000 02 04	704	0.1−	0.1−
1998 08 27	699	0.4−	1.4+	1999 12 03	704	0.2−	0.9−	2000 02 04	704	0.4−	0.0
1998 08 27	699	0.2−	1.3+	1999 12 03	704	0.1−	0.0	2000 02 04	704	0.2−	0.7+
1998 08 27	699	0.2−	1.3+	1999 12 16	699	0.2+	0.1+	2000 03 05	704	0.2+	0.0
1998 09 24	699	0.6+	0.7+	1999 12 16	699	0.4+	0.9+	2000 03 05	704	0.4+	0.1−
1998 09 24	699	0.9+	0.0	1999 12 16	699	0.2+	0.0	2000 03 05	704	0.0	0.1+
1998 09 24	699	0.2−	0.3−	2000 01 08	704	0.4+	0.0	2000 03 05	704	0.6+	0.3+
1999 10 31	703	0.2−	0.4+	2000 01 08	704	0.6+	0.1+	2000 03 05	704	0.3+	0.3+
1999 10 31	703	0.5−	0.1+	2000 01 08	704	0.8+	0.2−				

(14497)* 1995 DD

Discovered 1995 Feb. 20 by T. Kobayashi at Oizumi.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
				(2000.0)		P	Q
<i>M</i>	265.15512						
<i>n</i>	0.22627258	ω	321.30332			+0.75654480	+0.65388433
<i>a</i>	2.6671540	Ω	357.80279			−0.52951095	+0.60475315
<i>e</i>	0.1763019	<i>i</i>	13.07624			−0.38374225	+0.45465251
<i>P</i>	4.36	<i>H</i>	12.5			<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

1988 10 07	675	0.4−	0.9+	1997 10 30	688	0.1−	0.8−	1999 02 10	704	0.2+	0.8+
1988 10 07	675	0.3−	0.2−	1997 10 30	688	0.2−	0.1−	1999 02 10	704	0.4+	0.1−
1995 02 20	411	0.6+	0.6−	1997 10 31	688	0.0	0.2+	1999 02 13	704	0.7−	0.2+
1995 02 20	411	0.4+	0.5−	1997 10 31	688	0.0	0.0	1999 02 13	704	0.5+	0.4−
1995 02 21	411	0.2−	0.4−	1997 12 16	631	0.6−	0.1−	1999 02 13	704	0.6−	0.3+
1995 02 21	411	0.1+	0.4−	1997 12 16	631	0.6+	0.1+	1999 02 13	704	0.9−	0.3+
1995 02 26	411	0.5−	0.7+	1997 12 17	631	0.7+	0.0	1999 02 13	704	1.6−	0.5+
1995 02 26	411	0.3−	0.2+	1997 12 17	631	0.5+	0.2−	2000 03 14	704	0.5−	0.3+
1995 02 27	411	0.2−	0.0	1998 12 27	699	0.3+	0.4−	2000 03 14	704	0.0	0.1−
1995 02 27	411	0.0	0.0	1998 12 27	699	0.2−	0.2−	2000 03 14	704	0.1+	0.1+
1995 03 06	411	0.2+	0.4+	1998 12 27	699	0.3+	0.1−	2000 03 14	704	1.3−	0.4−
1995 03 06	411	0.6+	0.0	1999 02 04	411	0.1−	0.8+	2000 03 30	704	1.3+	0.2+
1995 03 11	411	0.2+	0.1−	1999 02 04	411	0.4+	0.1−	2000 03 30	704	0.1+	0.4+
1995 03 11	411	0.3−	0.2−	1999 02 10	704	0.2+	0.0	2000 03 30	704	0.2+	0.3−
1995 03 20	411	0.3−	0.6+	1999 02 10	704	1.0+	0.1−				
1995 03 20	411	0.5−	0.9−	1999 02 10	704	0.9+	0.4+				

(14498)* 1995 DO₂ = 1992 ON₃

Discovered 1995 Feb. 28 by V. S. Casulli at Colleverde di Guidonia.

Id. G. V. Williams (*MPC* 25073)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				(2000.0)		P	Q
<i>M</i>	58.50504						
<i>n</i>	0.21550731	ω	15.96089			−0.70173375	−0.71024098
<i>a</i>	2.7552524	Ω	118.64484			+0.64648242	−0.66778915
<i>e</i>	0.1346772	<i>i</i>	3.65354			+0.29938308	−0.22274513
<i>P</i>	4.57	<i>H</i>	13.6			<i>G</i>	0.15
						<i>U</i>	1

Residuals in seconds of arc

1992 07 24	809	(0.1+	4.7−)	1995 04 04	691	0.3+	0.0	1998 12 22	704	0.2−	0.9−
1992 07 24	809	(2.9+	3.6−)	1997 08 29	596	0.5−	0.2−	1999 01 18	704	0.2−	0.9−
1992 07 24	809	(3.7+	2.6−)	1997 08 29	596	0.4−	0.2+	1999 01 18	704	0.7−	1.4+
1992 07 26	809	(3.9+	2.0−)	1997 08 30	596	0.8−	0.9+	1999 01 18	704	0.7−	1.3+
1992 07 26	809	(3.2+	1.9−)	1997 08 30	596	0.4−	0.8+	1999 01 18	704	0.6−	1.5+
1992 07 26	809	(3.2+	1.8−)	1997 08 31	596	0.4−	0.6+	1999 01 22	704	0.6+	0.2+
1992 07 30	809	(2.5+	1.3−)	1997 08 31	596	0.5+	1.1+	1999 01 22	704	0.6+	0.5+
1992 07 30	809	(3.3+	2.0−)	1997 08 31	596	0.7+	0.3+	1999 01 22	704	0.4−	0.1+
1992 07 30	809	(3.0+	1.4−)	1998 11 15	596	0.5−	1.4−	1999 01 22	704	0.8−	0.2+
1995 02 06	691	0.1+	0.1+	1998 11 15	596	0.4−	1.3−	1999 01 22	704	(2.9−	0.4+)
1995 02 06	691	0.1−	0.2+	1998 11 15	596	0.1+	0.4−	1999 03 10	704	(0.6−	2.1+)
1995 02 06	691	0.2+	0.4+	1998 11 15	596	0.2−	0.4−	1999 03 10	704	0.6+	1.3+
1995 02 28	596	0.1+	0.1−	1998 11 17	596	0.3+	0.4+	1999 03 10	704	(2.1+	1.3+)
1995 02 28	596	0.3+	0.1+	1998 11 17	596	0.0	0.4+	1999 03 10	704	1.0−	0.9−
1995 02 28	596	0.1−	0.3+	1998 11 23	704	1.4+	0.9−	1999 03 10	704	(0.3+	2.1+)

2000 APR. 18

M.P.C. 39847

1995 02 28	596	0.1+	0.3+	1998 11 23	704	1.9+	0.5-	2000 02 10	704	0.5+	0.3+
1995 03 05	596	0.2+	0.2+	1998 11 23	704	1.0+	0.4-	2000 02 10	704	0.8+	0.7-
1995 03 05	596	0.5+	0.3+	1998 11 23	704	(1.2-	2.2-)	2000 02 10	704	0.1+	0.2-
1995 03 05	596	0.7+	0.2+	1998 12 15	704	0.7-	0.7+	2000 02 10	704	1.5+	1.0+
1995 03 07	596	0.2-	0.1-	1998 12 15	704	0.1-	0.5-	2000 03 03	703	0.4-	0.1+
1995 03 07	596	0.4+	0.3+	1998 12 15	704	0.5-	0.4+	2000 03 03	703	0.2-	0.4+
1995 03 11	596	0.1-	0.1+	1998 12 15	704	0.1-	0.1-	2000 03 03	703	0.5+	0.2+
1995 03 11	596	0.1+	0.2+	1998 12 15	704	1.0+	0.4+	2000 03 03	703	0.2-	0.5+
1995 03 27	675	0.2+	0.3+	1998 12 16	704	0.6+	1.3+	2000 04 01	596	0.9-	1.2-
1995 03 28	596	1.0-	0.3+	1998 12 16	704	0.2+	0.0	2000 04 01	596	0.1-	1.2-
1995 03 28	596	0.5-	0.2+	1998 12 16	704	0.3-	0.9+	2000 04 01	596	0.4-	0.3-
1995 03 28	596	0.5-	0.3+	1998 12 16	704	0.2-	1.9+	2000 04 07	704	0.2+	0.6+
1995 04 02	596	0.3-	0.8-	1998 12 22	704	0.2-	0.7-	2000 04 07	704	0.1+	0.9+
1995 04 02	596	0.4-	0.7-	1998 12 22	704	0.4-	0.3-	2000 04 07	704	0.5-	0.5+
1995 04 04	691	0.5+	0.2-	1998 12 22	704	0.6+	0.3-	2000 04 07	704	0.0	0.5+
1995 04 04	691	0.2+	0.3-	1998 12 22	704	0.8-	0.4-	2000 04 07	704	0.4+	0.6+

(14499)* 1995 VR₁ = 1989 YD₂

Discovered 1995 Nov. 15 by K. Endate and K. Watanabe at Kitami.
Id. S. Nakano (*MPC* 33250), A. Gnädig (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.31008489	ω	257.76354	+0.99251382		-0.08960173	
<i>a</i>	2.1618007	Ω	107.33309	+0.11429111		+0.92096504	
<i>e</i>	0.1836241	<i>i</i>	4.98766	-0.04305653		+0.37920300	
<i>P</i>	3.18	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1954 12 22	675	0.9-	0.1-	1998 10 18	699	0.1+	0.4+	2000 03 26	699	0.0	0.5+
1954 12 22	675	0.3+	0.2-	1998 12 08	704	0.5-	0.2-	2000 03 26	699	0.4-	0.7+
1982 08 21	413	0.4-	0.0	1998 12 08	704	1.2-	1.1+	2000 03 28	704	0.5+	0.3+
1982 08 21	413	0.4+	1.2+	1998 12 08	704	(2.4-	3.2+)	2000 03 28	704	0.2+	0.1+
1989 12 30	413	(3.6-	0.1+)	1998 12 08	704	1.4-	0.5+	2000 03 28	704	0.0	0.6-
1989 12 30	413	1.1+	0.4-	1998 12 08	704	(0.4-	2.6+)	2000 04 03	704	0.4+	0.4+
1989 12 31	413	1.2-	1.9-	1998 12 14	699	0.4+	0.1+	2000 04 03	704	0.3-	0.8+
1989 12 31	413	(2.9+	1.4-)	1998 12 14	699	0.7+	0.4+	2000 04 03	704	0.0	0.1-
1995 11 15	400	2.0-	0.5+	1998 12 14	699	1.1-	0.4+	2000 04 03	704	0.2-	0.0
1995 11 15	400	(2.3+	0.2-)	2000 02 29	704	0.7+	0.2+	2000 04 03	704	0.1+	0.8+
1995 11 16	400	0.8+	2.1-	2000 02 29	704	0.7+	0.1+	2000 04 04	704	0.4-	0.3-
1995 11 16	400	1.5-	0.3+	2000 02 29	704	0.8-	1.2-	2000 04 04	704	0.9+	0.3+
1995 11 22	400	0.5+	0.9+	2000 02 29	704	(3.6-	0.8-)	2000 04 04	704	0.2+	0.9+
1995 11 25	400	0.2+	0.4+	2000 03 11	699	0.3-	0.4+	2000 04 07	704	0.8+	0.3-
1995 11 25	400	0.0	0.6+	2000 03 11	699	0.0	0.7+	2000 04 07	704	0.2-	0.1+
1995 11 29	691	0.4+	0.2+	2000 03 11	699	0.6+	0.3+	2000 04 07	704	0.2-	0.1-
1995 11 29	691	0.0	0.8-	2000 03 11	699	0.6-	0.2+	2000 04 07	704	0.2-	0.5+
1995 11 29	691	0.7+	0.8-	2000 03 12	703	0.1-	0.4+	2000 04 07	704	0.2-	0.6+
1995 12 14	691	0.7+	0.0	2000 03 12	703	0.8-	0.3-	2000 04 08	704	0.4+	0.5+
1995 12 14	691	0.3+	0.4+	2000 03 12	703	0.3-	0.2+	2000 04 08	704	0.8+	1.7-
1995 12 14	691	0.5+	0.3+	2000 03 12	703	0.0	0.6+	2000 04 08	704	0.3+	0.7-
1995 12 18	400	0.5+	0.1+	2000 03 12	704	0.0	0.0	2000 04 08	704	1.9+	1.5-
1995 12 18	400	0.6+	1.0+	2000 03 12	704	0.5+	0.4+	2000 04 08	704	0.7-	0.3-
1998 09 21	699	0.2-	0.2+	2000 03 12	704	0.1+	0.3+	2000 04 08	704	0.5-	1.2+
1998 09 21	699	0.3-	0.2+	2000 03 12	704	0.2+	0.5+	2000 04 08	704	0.0	0.0
1998 09 21	699	0.1-	0.5+	2000 03 12	704	0.1-	0.3-	2000 04 08	704	0.1+	1.2+
1998 10 18	699	0.3-	0.6+	2000 03 26	699	0.1+	0.2+	2000 04 08	704	0.3-	1.3+
1998 10 18	699	0.2-	0.2+	2000 03 26	699	0.1-	0.2+				

(14500)* 1995 WO₇ = 1993 BW₁₃

Discovered 1995 Nov. 27 by T. Kobayashi at Oizumi.
Id. S. Nakano (*MPC* 26411)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29562155	ω	160.65275	+0.54053708		-0.83884525	
<i>a</i>	2.2317489	Ω	256.57875	+0.76289665		+0.52102309	
<i>e</i>	0.0995124	<i>i</i>	3.80124	+0.35469474		+0.15771363	
<i>P</i>	3.33	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 01 23	809	0.2-	0.0	1998 09 26	704	1.2-	0.6-	1998 10 14	704	0.4-	0.8+
1993 01 28	809	1.5+	1.1+	1998 09 26	704	(2.3-	0.7+)	1998 10 14	704	0.1+	0.7+
1993 01 28	809	0.3+	1.8+	1998 09 26	704	0.8-	0.5+	1998 10 14	699	0.6+	0.3-
1995 11 27	411	0.2+	0.7-	1998 09 26	704	0.9-	0.9+	1998 10 14	699	0.3+	0.4-
1995 11 27	411	0.2-	0.9-	1998 09 27	704	0.2-	0.2+	1998 10 14	699	0.0	0.4+
1995 11 28	411	0.0	0.1-	1998 09 27	704	0.7-	0.6+	1998 10 15	704	0.1-	1.0-
1995 11 28	411	0.1-	0.0	1998 09 27	704	0.2-	0.8+	1998 10 15	704	0.2+	0.2-
1995 12 01	411	0.4+	0.3-	1998 09 27	704	0.5-	1.1+	1998 10 15	704	0.4+	0.4-
1995 12 01	411	0.4-	1.3-	1998 09 27	704	0.7-	1.5+	1998 10 15	704	1.1+	1.1-
1995 12 10	411	1.9-	0.2-	1998 09 29	704	0.4+	0.2+	1998 10 15	704	0.0	1.4-
1995 12 10	411	0.8+	0.3-	1998 09 29	704	1.1-	0.9+	2000 03 03	703	0.2+	0.8+
1995 12 21	411	0.1-	0.9+	1998 09 29	704	(0.8-	2.3+)	2000 03 03	703	0.6+	0.5+
1995 12 21	411	0.3+	0.1+	1998 09 29	704	0.3-	2.0+	2000 03 03	703	0.6+	1.4+
1998 08 27	699	0.3+	1.8+	1998 09 29	704	0.5-	0.6+	2000 03 03	703	1.5-	1.1+
1998 08 27	699	0.3+	0.1-	1998 09 29	704	0.3-	0.0	2000 03 15	704	0.4+	0.1-
1998 08 27	699	0.4+	0.0	1998 09 29	704	0.6-	0.1-	2000 03 15	704	1.6+	0.4+
1998 09 14	704	0.2+	0.3-	1998 09 29	704	0.3-	1.4+	2000 03 15	704	1.3-	0.7+
1998 09 14	704	0.3-	0.4+	1998 10 02	704	1.3-	0.4-	2000 03 15	704	0.3+	1.0+
1998 09 14	704	(2.4-	1.8-)	1998 10 02	704	0.4+	1.8+	2000 04 07	699	0.0	0.2+
1998 09 18	704	1.1+	0.9+	1998 10 02	704	0.9-	0.4-	2000 04 07	699	0.2+	0.5+
1998 09 18	704	1.7+	0.5+	1998 10 02	704	1.0-	0.4+	2000 04 07	704	0.8+	0.5-
1998 09 18	704	1.3+	0.0	1998 10 02	704	0.5-	1.0+	2000 04 07	699	0.3-	1.1+
1998 09 18	704	0.0	0.4-	1998 10 02	704	0.3+	0.5-	2000 04 07	704	0.5+	0.6+
1998 09 18	704	1.3+	0.9-	1998 10 02	704	0.1+	1.3+	2000 04 07	704	0.6+	0.2+
1998 09 24	292	(2.7-	2.2-)	1998 10 02	704	0.2-	0.3-	2000 04 07	704	0.2+	0.7+
1998 09 24	292	1.7-	1.8-	1998 10 14	704	0.8+	0.0	2000 04 07	704	0.2+	0.1+
1998 09 24	292	0.6-	0.1-	1998 10 14	704	0.8-	0.3+				
1998 09 26	704	0.7+	0.0	1998 10 14	704	0.6+	0.6+				

(14501)* 1995 WA₈

Discovered 1995 Nov. 29 by T. Kobayashi at Oizumi.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30093555	ω	39.22476	+0.76701267		-0.64163098	
<i>a</i>	2.2053984	Ω	0.69177	+0.56301124		+0.67219423	
<i>e</i>	0.1444377	<i>i</i>	5.29909	+0.30774974		+0.36941115	
<i>P</i>	3.28	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 08 16	675	0.3+	0.6-	1998 09 27	704	0.5-	0.9+	2000 03 27	699	0.4-	0.3+
1988 08 16	675	0.3+	1.2-	1998 09 27	704	0.5-	0.9+	2000 04 02	699	0.2+	0.7+
1988 09 10	675	0.2+	2.1+	1998 09 27	704	0.5-	1.1+	2000 04 02	699	0.1+	1.0+
1988 09 10	675	0.6-	1.8+	1998 10 14	704	0.4+	0.5-	2000 04 02	699	0.7+	0.6+
1988 09 11	675	1.8-	0.3+	1998 10 14	704	0.2-	0.1-	2000 04 02	699	0.2+	0.1+
1988 09 12	675	(0.4-	2.4+)	1998 10 14	704	0.3+	1.0-	2000 04 03	699	0.3+	0.4+
1988 09 12	675	0.4+	0.5+	1998 10 14	704	0.1+	1.0-	2000 04 03	699	0.5+	0.0
1995 11 29	411	0.3-	0.2+	1998 10 15	704	0.4-	0.2+	2000 04 03	699	0.2+	0.6+
1995 11 29	411	0.0	0.2+	1998 10 15	704	0.0	0.3+	2000 04 03	699	0.3+	0.0
1995 11 30	411	0.5-	1.4+	1998 10 15	704	0.2-	0.4+	2000 04 05	691	0.3+	1.3-
1995 11 30	411	0.0	0.1-	1998 10 15	704	0.2+	0.1-	2000 04 05	691	0.5+	1.4-
1995 12 01	411	0.7-	0.7+	1998 10 15	704	0.6-	0.5+	2000 04 05	691	0.3+	1.3-
1995 12 01	411	0.2+	0.1+	1998 10 28	704	1.2+	0.0	2000 04 05	704	0.3+	0.4+
1995 12 09	411	0.5+	0.9+	1998 10 28	704	0.8-	0.1+	2000 04 05	704	0.1+	0.5+
1995 12 09	411	0.4+	0.2+	1998 10 28	704	0.3+	0.2+	2000 04 05	704	0.1-	0.5+
1995 12 24	411	0.1+	0.7-	1998 10 28	704	0.7-	0.1-	2000 04 05	704	0.2+	0.2+
1995 12 24	411	0.2-	0.7-	1998 10 28	704	1.2-	0.5+	2000 04 05	704	0.1-	0.1-
1998 08 02	699	0.3-	0.3-	1998 11 10	699	0.3+	0.7+	2000 04 06	699	0.3-	0.2+
1998 08 02	699	0.8+	1.3+	1998 11 10	699	0.1+	0.6+	2000 04 06	704	0.5+	0.5+

1998 08 02	699	1.1+	0.3+	1998 11 10	699	0.5+	0.1-	2000 04 06	704	0.1-	0.6+
1998 09 14	704	0.2-	0.6+	1998 12 09	704	0.6+	0.3+	2000 04 06	699	0.2-	0.4+
1998 09 14	704	0.3-	0.3+	1998 12 09	704	0.3-	1.2-	2000 04 06	704	0.4+	0.9+
1998 09 14	704	0.1+	0.7+	1998 12 09	704	1.1+	1.8+	2000 04 06	699	0.1+	0.3+
1998 09 18	704	0.3-	0.4+	1998 12 09	704	0.4+	1.2+	2000 04 06	704	0.0	0.5+
1998 09 18	704	0.1+	0.4+	1998 12 09	704	1.6+	1.1-	2000 04 06	699	0.2-	0.2+
1998 09 18	704	1.5-	0.2+	2000 03 09	704	0.1+	0.3+	2000 04 06	704	0.4-	0.6+
1998 09 18	704	1.0-	0.0	2000 03 09	704	0.4+	0.3+	2000 04 07	704	0.6+	0.8+
1998 09 18	704	0.0	0.0	2000 03 09	704	0.2-	1.6+	2000 04 07	704	0.4+	0.8+
1998 09 26	704	0.2+	0.5+	2000 03 09	704	0.3-	0.6+	2000 04 07	704	0.4+	0.2+
1998 09 26	704	0.7-	0.0	2000 03 10	704	0.7+	0.7+	2000 04 07	704	0.7+	0.9+
1998 09 26	704	0.3-	0.3+	2000 03 10	704	0.6+	0.9-	2000 04 07	704	0.4+	0.9+
1998 09 26	704	0.2-	0.0	2000 03 10	704	1.0+	0.2+	2000 04 08	704	1.0+	1.0+
1998 09 26	704	0.3-	0.7-	2000 03 27	699	0.7-	0.5+	2000 04 08	704	0.6+	0.5-
1998 09 27	704	0.0	0.5+	2000 03 27	699	0.2-	0.6+	2000 04 08	704	1.0-	0.4-
1998 09 27	704	0.7-	0.6+	2000 03 27	699	0.2-	0.9+	2000 04 08	704	0.3+	0.4+

(14502)* 1995 WB₂₂ = 1997 LG₁₅

Discovered 1995 Nov. 17 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 30456)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	32.80504		(2000.0)	P		Q		
<i>n</i>	0.29546125	ω	40.01484	-0.71041867		-0.69808966		
<i>a</i>	2.2325560	Ω	95.46468	+0.62058564		-0.68122688		
<i>e</i>	0.0898424	<i>i</i>	5.14732	+0.33193187		-0.22045582		
<i>P</i>	3.34	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1995 11 17	691	0.3+	0.2+	1998 09 24	910	0.2+	0.9+	2000 03 12	704	0.0	0.1-
1995 11 17	691	0.0	0.0	1998 09 26	704	1.0-	1.3-	2000 03 12	704	0.7+	0.6+
1995 11 17	691	0.2+	0.1+	1998 09 26	704	0.1+	0.9+	2000 03 26	699	0.0	0.4+
1995 11 23	691	0.2-	0.1+	1998 09 26	704	1.2+	1.3-	2000 03 26	699	0.2+	0.2+
1995 11 23	691	0.1-	0.2+	1998 09 26	704	(2.5-	1.1+)	2000 03 26	699	0.4+	0.2-
1995 11 23	691	0.1-	0.2+	1998 09 27	704	0.3-	0.8-	2000 03 26	699	0.0	0.3+
1995 11 30	691	0.3-	0.3+	1998 09 27	704	(2.3-	1.1+)	2000 03 29	704	0.4+	0.0
1995 11 30	691	0.3-	0.3+	1998 09 27	704	0.4-	0.9-	2000 03 29	704	0.2+	0.1+
1995 11 30	691	0.4-	0.4+	1998 09 27	704	0.0	1.6+	2000 03 29	704	0.4+	0.2+
1996 01 14	691	0.3-	0.1-	2000 02 28	120	0.5-	0.4+	2000 04 03	704	0.1-	0.1-
1996 01 14	691	0.2+	0.1+	2000 02 28	120	1.1-	0.1-	2000 04 03	704	0.0	0.1-
1996 01 14	691	0.4+	0.2+	2000 02 29	704	0.3+	0.6-	2000 04 03	704	0.2-	0.5-
1997 06 08	809	0.7+	1.4+	2000 02 29	704	0.1+	0.0	2000 04 03	704	0.7-	0.4+
1997 06 08	809	0.2+	1.6+	2000 02 29	704	0.4-	0.7-	2000 04 08	704	0.4-	1.0-
1997 06 08	809	0.8+	1.1+	2000 03 12	703	0.7-	0.0	2000 04 08	704	0.2-	0.2-
1997 06 09	809	0.1-	0.4-	2000 03 12	703	0.2-	0.1-	2000 04 08	704	0.2-	0.2-
1997 06 09	809	0.8+	0.1-	2000 03 12	703	0.4+	0.1-	2000 04 08	704	0.6+	1.1+
1997 06 09	809	1.9-	1.7-	2000 03 12	703	0.6+	0.1+	2000 04 08	704	0.7+	0.4+
1998 09 24	910	0.1-	0.7+	2000 03 12	704	0.1+	0.1+				
1998 09 24	910	0.1+	0.5+	2000 03 12	704	0.1-	0.2+				

(14503)* 1995 WW₄₂ = 1997 GM₂₄

Discovered 1995 Nov. 25 by S. Ueda and H. Kaneda at Kushiro.

Id. G. V. Williams (*MPC* 30082)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	77.97194		(2000.0)	P		Q		
<i>n</i>	0.27988313	ω	353.92757	+0.45646062		-0.88502630		
<i>a</i>	2.3146477	Ω	68.88283	+0.82039568		+0.37884842		
<i>e</i>	0.1671749	<i>i</i>	5.62899	+0.34437571		+0.27055930		
<i>P</i>	3.52	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1995 11 25	399	(1.7-	3.2+)	1998 09 21	704	0.2+	0.7-	2000 03 13	704	0.0	0.2-
1995 11 25	399	(1.6-	3.3+)	1998 09 21	704	0.9-	0.3+	2000 03 13	704	0.2+	0.4+
1995 12 17	399	0.2-	0.7+	1998 09 21	704	0.2-	0.5+	2000 03 13	704	0.2+	0.6-
1995 12 17	399	0.5-	1.2+	1998 09 21	704	0.7+	1.7-	2000 03 13	704	0.1+	0.1+
1995 12 19	399	0.7+	0.5-	1998 09 21	704	0.6+	0.2-	2000 03 26	699	0.4-	0.2+

1995 12 19	399	0.3-	0.5-	2000 02 04	704	0.2-	1.7-	2000 03 26	699	0.6-	0.2-
1997 04 06	704	1.2+	1.1+	2000 02 04	704	0.8-	0.3-	2000 03 26	699	1.0-	0.1-
1997 04 06	704	0.1-	0.1-	2000 02 04	704	0.0	0.5-	2000 03 26	699	0.6-	0.4+
1997 04 06	704	0.0	0.1+	2000 02 04	704	0.3+	0.2+	2000 03 28	704	0.3-	0.3-
1997 04 08	704	1.0+	0.5+	2000 03 02	703	0.3-	0.1-	2000 03 28	704	0.1+	0.3+
1997 05 01	704	0.1-	0.4+	2000 03 02	703	0.3-	0.4+	2000 03 28	704	0.3+	0.1+
1997 05 01	704	0.4-	0.1-	2000 03 02	703	0.1+	0.3-	2000 03 28	704	0.3-	0.0
1997 05 01	704	0.1+	0.2-	2000 03 02	703	0.1+	1.1-	2000 04 03	699	0.6+	0.3+
1997 05 01	704	0.2+	0.7+	2000 03 05	704	0.3+	0.3-	2000 04 03	699	0.9+	0.6-
1997 05 01	704	0.3+	0.1+	2000 03 05	704	0.8+	0.2-	2000 04 03	699	0.9+	0.3-
1997 05 05	704	0.1+	0.1-	2000 03 05	704	0.2-	0.1+	2000 04 03	699	0.5+	0.0
1997 05 05	704	0.1-	0.6+	2000 03 05	704	0.1-	0.3-	2000 04 04	704	0.3-	0.0
1997 05 05	704	0.4-	0.6-	2000 03 05	704	0.2-	0.1+	2000 04 04	704	0.4+	0.1+
1997 05 05	704	0.4-	0.2-	2000 03 12	704	0.1+	0.1-	2000 04 04	704	0.1+	1.0-
1997 05 05	704	0.0	0.2+	2000 03 12	704	0.2-	0.0	2000 04 04	704	0.1+	0.0
1997 05 26	910	0.0	0.4-	2000 03 12	704	0.8-	0.4+	2000 04 04	704	0.1+	0.8+
1997 05 26	910	0.5-	0.3-	2000 03 12	704	0.1-	0.8+				
1997 05 26	910	0.2-	0.5-	2000 03 12	704	0.5-	0.8+				

(14504)* 1995 YL₃ = 1997 LC₁₅

Discovered 1995 Dec. 27 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 30456)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	95.13661		(2000.0)	P		Q		
<i>n</i>	0.27642756	ω	296.49318	+0.45905053		-0.88557447		
<i>a</i>	2.3338977	Ω	126.00102	+0.84312624		+0.40909818		
<i>e</i>	0.1388114	<i>i</i>	5.02959	+0.28001919		+0.21999213		
<i>P</i>	3.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1993 03 23	809	0.3-	0.5+	1998 08 27	809	(2.6+	4.6+)	2000 02 11	704	0.3+	0.1+
1993 04 16	413	(2.6-	2.6-)	1998 08 27	809	(3.0+	4.2+)	2000 02 11	704	0.1-	0.5+
1995 12 27	411	0.1-	0.2+	1998 09 14	704	0.1+	0.1-	2000 02 11	704	0.4-	0.2+
1995 12 27	411	0.6+	0.3+	1998 09 14	704	0.5+	0.2+	2000 02 11	704	0.7+	0.8+
1995 12 29	411	0.0	0.0	1998 09 14	704	0.5+	0.0	2000 03 12	703	0.4+	0.3+
1995 12 29	411	0.5+	0.1+	1998 09 17	699	0.3-	0.9+	2000 03 12	703	0.6-	0.3+
1995 12 31	411	0.7-	0.3-	1998 09 17	699	0.1+	0.7+	2000 03 12	703	0.1-	0.0
1995 12 31	411	0.5+	0.1-	1998 09 17	699	0.4-	0.6+	2000 03 12	703	0.2+	0.2-
1996 01 10	411	1.1-	1.0-	1998 09 18	704	0.3-	0.3-	2000 03 12	704	0.1-	0.6+
1996 01 10	411	0.1+	0.4-	1998 09 18	704	0.2-	0.5+	2000 03 12	704	0.0	0.4+
1996 01 25	411	0.3+	0.1+	1998 09 18	704	0.2-	0.2+	2000 03 12	704	0.5+	0.0
1996 01 25	411	0.2+	1.2-	1998 09 18	704	1.6-	0.8+	2000 03 12	704	0.3+	0.8+
1997 05 04	809	1.4-	0.4-	1998 09 18	704	1.8-	0.0	2000 03 26	699	0.1+	0.3+
1997 05 04	809	1.4-	1.2-	1998 09 24	699	0.1-	0.7+	2000 03 26	699	0.4-	0.4+
1997 05 04	809	1.5-	1.1-	1998 09 24	699	0.8+	1.9+	2000 03 26	699	0.4-	0.7+
1997 05 31	691	1.1+	0.1-	1998 09 24	699	1.1+	0.5+	2000 03 26	699	0.1-	0.1-
1997 05 31	691	0.9+	0.1+	1998 09 26	704	0.1-	0.2+	2000 03 28	704	0.3+	0.4+
1997 05 31	691	0.8+	0.0	1998 09 26	704	0.8+	0.3-	2000 03 28	704	0.3+	1.0+
1997 06 08	809	0.4-	0.6+	1998 09 26	704	1.4+	1.6-	2000 03 28	704	0.7-	0.6+
1997 06 08	809	0.1-	0.1+	1998 09 26	704	0.4-	1.9-	2000 03 28	704	0.6-	0.8+
1997 06 08	809	0.4-	0.8+	1998 09 26	704	1.7+	0.2-	2000 04 07	699	0.4+	0.0
1997 06 09	809	(4.0+	3.1+)	1998 09 27	704	0.4-	0.6+	2000 04 07	699	0.3-	0.6+
1997 06 09	809	(4.1+	3.0+)	1998 09 27	704	0.3-	1.1+	2000 04 07	699	0.6+	0.0
1997 06 09	809	(3.7+	2.0+)	1998 09 27	704	0.2-	1.4+	2000 04 07	699	0.3+	0.7-
1997 06 29	691	0.8+	1.2-	1998 09 27	704	0.5-	0.1+	2000 04 08	704	0.3+	0.4-
1997 06 29	691	0.9+	0.2-	1998 09 27	704	0.6-	0.6+	2000 04 08	704	0.9+	0.3+
1997 06 29	691	0.5+	0.2-	1998 10 15	704	0.1-	0.7-	2000 04 08	704	0.1+	0.5-
1998 08 26	809	(3.3+	4.9+)	1998 10 15	704	0.4-	0.7-	2000 04 08	704	1.0+	0.0
1998 08 26	809	(3.3+	3.8+)	1998 10 15	704	0.4-	0.1-	2000 04 08	704	0.1+	0.9+
1998 08 26	809	(3.4+	4.2+)	1998 10 15	704	0.7-	0.3+				
1998 08 27	809	(3.1+	4.7+)	1998 10 15	704	0.2-	0.3-				

2000 APR. 18

M.P.C. 39849

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	353.75287		(2000.0)	P	Q
<i>n</i>	0.27222206	ω	116.58242	-0.97626245	+0.20939256
<i>a</i>	2.3578735	Ω	75.54589	-0.21344195	-0.88665688
<i>e</i>	0.1665499	<i>i</i>	3.27824	-0.03679890	-0.41230368
<i>P</i>	3.62	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1942 04 13	024	0.4-	1.1-	1998 10 29	704	1.0-	1.7-	2000 02 11	704	1.0+	0.4-
1971 03 19	095	(4.0-	2.9+)	1998 11 10	704	0.3+	0.0	2000 03 29	704	0.0	0.1+
1989 03 29	372	1.6-	2.3-	Y 1998 11 10	704	0.2+	0.5-	2000 03 29	704	0.4-	0.1+
1989 03 29	372	(5.2-	3.1-)	Y 1998 11 10	704	0.2+	0.7-	2000 03 29	704	0.3-	0.1+
1996 01 12	691	0.8+	0.0	1998 11 10	704	1.5+	1.0-	2000 03 29	704	0.5-	0.2+
1996 01 12	691	0.4+	0.1+	1998 11 11	704	0.7+	1.2+	2000 03 29	704	0.7-	0.4+
1996 01 12	691	0.4+	0.1+	1998 11 11	704	0.2-	1.4+	2000 04 04	704	0.7-	0.6-
1996 01 18	691	0.5+	0.3+	1998 11 11	704	1.3+	1.8+	2000 04 04	704	0.2-	0.4+
1996 01 18	691	0.2+	0.1+	1998 11 11	704	0.3+	1.8+	2000 04 04	704	0.1+	0.3-
1996 01 18	691	0.2+	0.4-	1998 11 11	704	(1.8+	2.0-)	2000 04 04	704	0.1+	0.1+
1996 02 14	098	1.4-	0.2+	1998 11 24	699	0.4+	1.9+	2000 04 04	704	0.2-	0.2-
1996 02 14	098	0.8-	0.5+	1998 11 24	699	(0.3+	2.3+)	2000 04 08	704	0.1+	0.3+
1996 02 15	098	0.2+	0.7+	1998 11 24	699	0.9-	1.3+	2000 04 08	704	0.3+	0.6+
1996 02 15	098	0.2-	0.2-	2000 01 10	699	0.4+	0.4+	2000 04 08	704	0.7+	0.6+
1996 02 23	098	0.5+	0.7-	2000 01 10	699	0.0	0.3+	2000 04 08	704	0.9+	0.8+
1996 02 23	098	0.6-	0.8-	2000 02 08	704	0.2+	0.4+	2000 04 08	704	1.1+	1.1+
1998 10 29	704	0.5-	1.6-	2000 02 08	704	0.5+	0.1-	2000 04 12	608	(0.4+	2.5-)
1998 10 29	704	1.1-	1.6-	2000 02 08	704	0.0	0.1+	2000 04 12	608	(0.1-	2.2-)
1998 10 29	704	1.1-	1.6-	2000 02 11	704	0.0	0.4+	2000 04 12	608	0.5-	1.5-
1998 10 29	704	0.4-	1.2-	2000 02 11	704	0.7+	0.1-				

(14506)* 1996 BL₂ = 1984 SW₂ = 1998 QY₉₂

Discovered 1996 Jan. 26 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 32469), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	151.17840		(2000.0)	P	Q
<i>n</i>	0.28541307	ω	155.99600	+0.89632606	-0.44024055
<i>a</i>	2.2846525	Ω	230.22913	+0.39488260	+0.84673654
<i>e</i>	0.1701018	<i>i</i>	3.93908	+0.20166142	+0.29870636
<i>P</i>	3.45	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1984 09 25	688	(0.8+	3.2-)	1998 10 29	704	0.0	0.1-	1999 02 04	704	1.5-	0.8+
1984 09 25	688	0.7+	2.3-	1998 11 10	704	0.2+	0.9+	1999 02 04	704	0.6-	0.5+
1996 01 26	411	0.4+	0.2-	1998 11 10	699	0.5+	0.6+	1999 02 04	704	1.8-	0.8-
1996 01 26	411	0.2-	0.8+	1998 11 10	704	1.2+	0.1-	2000 03 04	703	0.1-	0.9-
1996 01 27	411	0.9+	1.1-	1998 11 10	704	0.3+	0.7+	2000 03 04	703	0.2-	0.3-
1996 01 27	411	0.2+	0.6-	1998 11 10	704	1.5+	0.5+	2000 03 04	703	0.1+	0.5+
1996 01 30	411	0.3+	0.8-	1998 11 10	699	0.5+	0.8+	2000 03 04	703	0.4-	0.4+
1996 01 30	411	0.3+	0.2+	1998 11 10	699	0.3+	1.1+	2000 03 27	699	0.1-	0.4+
1996 02 12	411	0.0	0.7-	1998 11 11	704	0.1-	0.4+	2000 03 27	699	0.1-	0.2+
1996 02 12	411	0.0	0.1-	1998 11 11	704	0.1-	0.2+	2000 03 27	699	0.1-	0.5+
1996 02 19	411	1.3-	0.3+	1998 11 11	704	0.4-	0.7-	2000 03 27	699	0.9-	0.4+
1996 02 19	411	0.3-	0.4-	1998 11 11	704	2.0+	0.8-	2000 04 06	699	0.3-	0.5+
1998 08 28	704	0.7+	0.1+	1998 11 18	704	0.0	1.0+	2000 04 06	699	0.5-	0.7+
1998 08 28	704	0.2-	0.9-	1998 11 18	704	0.3-	0.6+	2000 04 06	699	0.3-	0.3+
1998 08 28	704	0.0	0.0	1998 11 18	691	0.6-	0.0	2000 04 06	699	0.2-	1.0+
1998 08 28	704	0.9-	1.1-	1998 11 18	691	0.6-	0.2+	2000 04 07	704	0.7-	0.4+
1998 08 31	704	0.2+	0.5+	1998 11 18	704	0.7-	0.9-	2000 04 07	704	0.7+	0.0
1998 08 31	704	1.7+	0.2-	1998 11 18	691	0.6-	0.1+	2000 04 07	704	0.1-	0.3+
1998 08 31	704	1.3+	1.5+	1998 11 18	704	0.3-	0.8-	2000 04 07	704	0.0	0.7-
1998 08 31	704	1.3-	0.5-	1998 11 18	704	1.1-	2.3-	2000 04 07	704	0.1+	0.9-
1998 10 18	699	0.9+	1.0+	1998 11 21	691	0.0	0.4+	2000 04 08	704	2.0+	1.0-
1998 10 18	699	0.0	0.0	1998 11 21	691	0.0	0.5+	2000 04 08	704	0.3+	0.8+
1998 10 18	699	0.2+	0.7+	1998 11 21	691	0.1-	0.1+	2000 04 08	704	1.2+	1.1-
1998 10 25	758	0.8-	0.1-	1998 11 24	699	0.1-	1.4+	2000 04 08	704	0.1-	0.0
1998 10 25	758	0.2+	0.3-	1998 11 24	699	0.1-	0.8+	2000 04 08	704	0.5+	0.7-
1998 10 25	758	0.4-	0.3+	1998 11 24	699	0.4-	0.9+	2000 04 10	704	0.3+	0.2-

1998 10 29	704	0.4-	0.8-	1999 01 06	699	0.4-	0.3-	2000 04 10	704	0.1-	0.2-
1998 10 29	704	0.0	0.8-	1999 01 06	699	0.5+	1.0-	2000 04 10	704	0.3-	0.8+
1998 10 29	704	0.4-	0.6-	1999 01 06	699	0.1+	1.4-	2000 04 10	704	0.2-	0.2+
1998 10 29	704	0.8-	0.4+	1999 02 04	704	1.4+	1.3-	2000 04 10	704	0.7-	0.3-

(14507)* 1996 CQ₁ = 1987 SV₁₆ = 1994 PS₄

Discovered 1996 Feb. 14 at Višňjan.

Id. G. V. Williams (*MPC* 26909)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	164.30740		(2000.0)	P	Q
<i>n</i>	0.27092085	ω	40.45709	+0.99751586	+0.00025561
<i>a</i>	2.3654173	Ω	319.36170	-0.03346869	+0.88163385
<i>e</i>	0.1316974	<i>i</i>	6.20919	+0.06198357	+0.47193400
<i>P</i>	3.64	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1987 09 25	095	(2.8+	11.5+)	1996 02 20	120	0.3+	0.6+	1998 11 24	747	0.6+	1.2+
1994 08 10	809	0.7+	1.7+	1996 02 23	120	1.6-	0.6-	1998 11 26	747	0.4+	1.2+
1994 08 10	809	0.4+	1.7+	1996 02 23	120	0.2-	0.4+	1998 11 26	747	0.3+	1.2+
1994 08 10	809	0.5+	1.2+	1996 02 27	120	0.3-	0.1+	2000 02 27	703	0.3+	0.6+
1994 08 11	809	1.6-	1.3+	1996 02 27	120	0.4+	0.9-	2000 02 27	703	0.8+	0.7+
1994 08 11	809	1.3-	1.7+	1996 02 27	120	(2.1+	0.8-)	2000 02 27	703	0.1+	0.7+
1994 08 11	809	0.2-	0.8+	1998 08 31	704	(2.0+	2.1-)	2000 02 27	703	0.6-	0.9+
1994 09 07	675	1.2-	1.0-	1998 08 31	704	(3.0-	0.8-)	2000 03 08	704	1.0+	0.9+
1994 09 07	675	0.8-	0.2-	1998 08 31	704	0.7-	0.2-	2000 03 08	704	(1.1+	2.7+)
1996 02 14	120	0.8+	0.5+	1998 08 31	704	0.2-	0.6+	2000 03 08	704	0.1-	0.6+
1996 02 14	120	1.0+	0.3+	1998 10 03	699	0.3+	0.3+	2000 03 08	704	0.2+	1.0+
1996 02 15	120	1.4+	1.1+	1998 10 03	699	0.5-	0.1-	2000 03 08	704	0.6+	0.6+
1996 02 15	120	1.0-	0.3-	1998 10 03	699	0.2-	0.3-	2000 03 30	703	0.1-	0.6+
1996 02 15	120	0.5+	0.3+	1998 11 14	704	0.3-	0.3-	2000 03 30	703	0.3-	0.9+
1996 02 15	120	1.3-	0.4-	1998 11 14	704	0.3-	0.0	2000 03 30	703	0.6+	0.4+
1996 02 16	120	1.6+	0.8+	1998 11 14	704	0.4-	1.3-	2000 03 30	703	0.7+	0.1+
1996 02 16	120	0.8-	1.0-	1998 11 14	704	0.3-	0.8+	2000 04 02	699	0.9+	0.7+
1996 02 20	120	0.3+	0.8-	1998 11 14	704	0.7-	0.1-	2000 04 02	699	1.3+	1.2+
1996 02 20	120	1.3-	0.5+	1998 11 24	747	0.4+	0.9+				

(14508)* 1996 DH₂

Discovered 1996 Feb. 23 by T. Kobayashi at Oizumi.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	258.29065		(2000.0)	P	Q
<i>n</i>	0.22976071	ω	255.57318	-0.16499872	+0.98616962
<i>a</i>	2.6400909	Ω	5.00920	-0.82173800	-0.12867760
<i>e</i>	0.1620327	<i>i</i>	10.32486	-0.54545584	-0.10445841
<i>P</i>	4.29	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1993 09 21	675	0.7+	0.1+	1996 04 23	566	0.3+	0.6+	2000 01 03	704	0.3+	0.2+
1993 09 21	675	0.0	1.1-	1996 04 23	566	0.5+	0.4+	2000 03 04	704	0.1+	1.5+
1996 02 23	411	0.6-	0.6+	1996 04 23	566	0.0	0.4+	2000 03 04	704	0.7-	0.5+
1996 02 23	411	0.4+	1.7+	1997 08 30	566	0.2-	0.5+	2000 03 04	704	1.0-	0.1+
1996 02 27	411	0.1+	0.7-	1997 08 30	566	0.4-	0.4+	2000 03 12	699	0.2+	0.5+
1996 02 27	411	0.6-	0.1+	1997 08 30	566	0.3+	0.1+	2000 03 12	699	0.2+	0.3+
1996 02 27	411	0.2-	0.5+	1997 10 29	688	0.5-	0.4+	2000 03 12	699	0.4-	0.0
1996 02 28	411	1.7-	0.4+	1997 10 29	688	0.6-	0.9+	2000 03 12	699	0.6+	0.2+
1996 02 28	411	1.4-	1.6-	1997 10 30	688	0.4-	0.5+	2000 04 02	704	0.4-	0.9-
1996 03 09	411	0.7+	1.9-	1997 10 30	688	0.0	0.7+	2000 04 02	704	0.3+	0.6+
1996 03 09	411	0.2+	1.0-	2000 01 03	704	0.5+	1.4-	2000 04 02	704	0.0	1.1+
1996 03 22	411	1.0+	0.4+	2000 01 03	704	0.3+	0.1+	2000 04 02	704	1.2+	0.5+
1996 03 22	411	0.8+	0.7-	2000 01 03	704	0.4+	0.0				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	59.81474		(2000.0)	P	Q		
n	0.25931658	ω	215.01084	-0.39104578	-0.91920997		
a	2.4354686	Ω	258.04777	+0.85483961	-0.34413449		
e	0.0502150	i	2.70786	+0.34107541	-0.19137524		
P	3.80	H	14.9	G	0.15	U	1

Residuals in seconds of arc

1996 03 09	118	0.3-	0.1-	1997 06 23	118	0.1-	0.5+	1998 11 17	691	0.6+	0.1-
1996 03 09	118	0.2-	0.1-	1997 06 24	118	0.1+	0.5-	1998 11 17	691	0.5+	0.1+
1996 03 10	118	0.1-	0.3-	1997 06 24	118	0.1+	0.7+	1998 11 17	691	0.6+	0.0
1996 03 19	118	0.1-	1.2-	1997 06 25	118	0.5+	0.5+	1998 11 28	118	1.1+	0.2+
1996 03 19	118	0.2+	0.7+	1997 06 25	118	0.2-	0.3-	1998 11 28	118	0.8+	0.0
1996 03 19	118	0.4-	1.6+	1997 06 27	118	0.0	0.2+	1998 12 10	118	1.2-	0.7+
1996 03 20	118	0.3+	0.8-	1997 06 27	118	0.4+	0.2-	1998 12 10	118	1.1-	0.8+
1996 03 20	118	0.4-	0.4-	1997 06 28	118	0.2+	0.1+	2000 03 03	703	0.0	1.1+
1996 03 20	118	0.1-	0.3-	1997 06 28	118	0.7-	0.6-	2000 03 03	703	0.0	0.2+
1996 04 05	118	0.0	0.2-	1998 10 21	118	0.1-	1.2-	2000 03 03	703	0.3-	0.1+
1996 04 06	118	0.1+	0.1-	1998 10 21	118	0.1-	1.2-	2000 03 03	703	0.8-	0.5+
1996 04 07	118	0.5-	0.4-	1998 10 21	118	0.9-	0.4+	2000 03 09	704	0.3-	0.1-
1996 04 16	118	0.3+	0.8-	1998 10 21	118	1.6+	0.7+	2000 03 09	704	0.0	0.4+
1996 04 16	118	0.9+	0.2+	1998 10 22	118	1.1+	0.3-	2000 03 09	704	0.3-	0.2-
1996 04 17	118	0.0	0.5-	1998 10 22	118	0.9-	0.4+	2000 03 09	704	0.2+	0.2+
1996 04 18	118	0.0	0.2-	1998 10 29	704	0.8-	0.6+	2000 03 09	704	0.0	0.0
1996 04 20	118	0.2-	0.9-	1998 10 29	704	0.7-	0.8+	2000 03 26	699	0.1+	0.6+
1996 04 22	118	0.0	1.2-	1998 10 29	704	0.8-	0.6-	2000 03 26	699	0.3-	0.7+
1996 05 04	118	1.4-	0.0	1998 10 29	704	0.3-	0.2-	2000 03 26	699	0.0	1.1+
1996 05 04	118	1.2-	0.1-	1998 10 29	704	0.5-	1.4-	2000 03 26	699	0.7+	0.0
1996 05 05	118	0.3-	0.9-	1998 11 05	118	0.6-	0.7+	2000 04 07	704	0.8+	0.7+
1996 05 05	118	0.8-	0.7-	1998 11 05	118	1.0-	0.2+	2000 04 07	704	0.2-	0.7+
1996 05 16	118	0.5+	0.4+	1998 11 11	704	1.2+	0.0	2000 04 07	704	0.5-	0.4+
1996 05 17	118	1.1+	0.9-	1998 11 11	704	1.6+	0.8+	2000 04 07	704	0.6+	1.1+
1997 06 13	118	0.3-	0.1-	1998 11 11	704	0.5-	0.2+	2000 04 07	704	0.0	0.2+
1997 06 13	118	0.2+	0.3-	1998 11 11	118	0.2+	0.3+	2000 04 08	704	0.1+	0.6+
1997 06 16	118	0.3-	0.7+	1998 11 11	118	0.2-	0.6+	2000 04 08	704	0.8+	0.4-
1997 06 16	118	0.4+	0.3-	1998 11 11	118	0.3-	0.2+	2000 04 08	704	1.6+	0.0
1997 06 16	118	0.4-	0.1+	1998 11 12	118	0.2-	0.5+	2000 04 08	704	1.0+	0.4+
1997 06 23	118	0.1+	0.6+	1998 11 12	118	0.1-	0.5+				

(14510)* 1996 ES₂ = A905 SC = 1929 RU = 1998 YF₁

Discovered 1996 Mar. 15 at Haleakala by the JPL Near-Earth Asteroid Tracking program.

Id. S. Nakano (*MPC* 33493), G. V. Williams (*MPC* 34513)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	214.76442		(2000.0)	P	Q
n	0.28792821	ω	11.92611	+0.99661938	+0.07721948
a	2.2713283	Ω	343.56673	-0.08114658	+0.87180830
e	0.1949471	i	5.69090	-0.01284655	+0.48372248
P	3.42	H	13.8	G 0.15	U 1

Residuals in seconds of arc

1995 09 19	024	1.4-	2.3+	1996 03 17	691	0.3-	0.1+	2000 03 14	704	0.4-	0.4-
1929 09 09	024	(0.1-	3.3+)	1996 03 17	691	0.5-	0.1+	2000 03 14	704	0.7-	0.1+
1929 09 26	024	(7.7-	2.4+)	1996 03 21	566	0.2+	0.2+	2000 03 14	704	0.6-	0.9+
1993 04 16	413	1.7+	2.2+	1996 03 21	566	0.7+	0.1+	2000 03 14	704	0.7-	0.4+
1994 09 11	691	0.4-	0.0	1996 03 21	566	0.2+	0.2+	2000 04 06	704	0.4-	0.3-
1994 09 27	691	1.0+	0.1+	1998 10 15	699	0.5-	1.5-	2000 04 06	704	0.0	0.6+
1994 09 27	691	0.4-	0.2-	1998 10 15	699	0.7+	0.4-	2000 04 06	704	0.1-	0.4-
1994 09 27	691	0.1+	0.1+	1998 10 15	699	0.5-	0.9-	2000 04 06	704	0.8+	0.3-
1994 10 07	691	0.1+	0.4-	1998 12 16	888	0.1-	0.2+	2000 04 06	704	0.7+	0.5-
1994 10 07	691	0.0	0.2-	1998 12 16	888	0.3-	0.2+	2000 04 08	704	0.6-	0.7-
1994 10 07	691	0.1+	0.1-	1998 12 17	888	0.1-	0.0	2000 04 08	704	0.7-	0.0
1996 03 12	691	1.5+	0.7+	1998 12 17	888	0.0	0.2+	2000 04 08	704	0.5-	0.3-
1996 03 12	691	0.2+	0.1+	1999 02 10	704	0.3+	0.4+	2000 04 08	704	0.5-	0.9-
1996 03 12	691	0.2+	0.1+	1999 02 10	704	1.1-	1.3+	2000 04 08	704	0.9+	0.2+

1996 03 15	566	0.4+	0.1-	1999 02 10	704	0.5-	0.1+	2000 04 13	608	0.2+	0.1+
1996 03 15	566	0.1+	1.0-	1999 02 10	704	0.7+	0.2-	2000 04 13	608	0.4+	0.2-
1996 03 15	566	0.2+	0.4-	1999 02 10	704	(0.8+	2.3-)	2000 04 13	608	0.2+	0.2+
1996 03 17	691	0.6-	0.3+	2000 03 14	704	0.4-	0.1-				

(14511)* 1996 EU₃ = 1990 TT₁₁

Discovered 1996 Mar. 11 by Spacewatch at Kitt Peak.

Id. T. Kobayashi (*MPC* 27719)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	232.95512		(2000.0)	P	Q
n	0.26781809	ω	333.00567	+0.87189939	+0.48965434
a	2.3836516	Ω	357.65485	-0.42159807	+0.74492439
e	0.1153641	i	7.70231	-0.24909138	+0.45312943
P	3.68	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1990 10 11	033	0.1+	0.0	1998 12 14	704	0.4+	1.3-	2000 03 14	704	0.5-	0.5-
1990 10 12	033	0.8-	0.6-	1998 12 14	704	(2.9+	0.8-)	2000 03 30	704	1.3-	0.1+
1990 10 12	033	0.6-	0.2-	1998 12 14	704	0.5-	0.3-	2000 03 30	704	0.6+	0.8+
1990 10 13	033	0.4+	0.9+	1998 12 17	704	0.5+	1.0+	2000 03 30	704	0.8+	0.9+
1990 10 14	033	0.3+	0.9+	1998 12 17	704	0.0	0.4-	2000 03 30	704	0.0	1.7+
1996 03 11	691	0.0	0.1-	1998 12 17	704	0.1-	0.5+	2000 03 30	704	0.8+	1.8+
1996 03 11	691	0.0	0.1+	1998 12 17	704	0.4+	0.6+	2000 04 07	704	0.0	0.4+
1996 03 11	691	0.0	0.3+	1998 12 17	704	0.2-	0.5+	2000 04 07	704	0.6+	0.3-
1996 03 18	691	0.4+	0.1+	1999 01 16	704	0.1+	0.4+	2000 04 07	704	0.0	0.8-
1996 03 18	691	0.5+	0.0	1999 01 16	704	0.2-	0.4+	2000 04 07	704	0.1+	0.6-
1996 03 18	691	0.5+	0.0	1999 01 16	704	0.3-	0.0	2000 04 07	704	0.2-	0.2-
1996 03 19	566	0.8-	0.3-	1999 01 16	704	0.4+	0.1-	2000 04 10	704	0.2-	0.2-
1996 03 19	566	0.7-	0.7-	2000 03 14	704	0.2+	0.5-	2000 04 10	704	0.2+	0.1-
1996 03 19	566	0.4-	0.1-	2000 03 14	704	0.2+	0.5+	2000 04 10	704	0.1-	0.0
1998 12 14	704	0.0	0.2-	2000 03 14	704	0.5-	0.8-	2000 04 10	704	0.0	0.2-
1998 12 14	704	0.4-	0.7-	2000 03 14	704	0.3-	0.1+	2000 04 10	704	0.4+	0.1-

(14512)* 1996 GL₁ = 1987 QA₉ = 1991 VD₁₆ = 1991 XU₄

Discovered 1996 Apr. 6 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. A. Gnädig (*MPC* 31545)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	93.25866		(2000.0)	P	Q		
n	0.27836230	ω	58.43319	-0.14639225	-0.98635757		
a	2.3230708	Ω	40.20220	+0.86347657	-0.16454722		
e	0.1326725	i	6.69795	+0.48267746	-0.00479085		
P	3.54	H	14.4	G	0.15	U	1

Residuals in seconds of arc

1987 08 21	809	(1.5- 3.5+)	1996 04 20	327	0.2- 0.0	1998 11 11	704	0.1+ 0.3-
1987 08 21	809	1.1- 0.7+	1998 08 31	704	0.6+ 1.6+	1998 11 11	704	0.7+ 0.1+
1987 08 21	809	0.9- 2.4+	1998 08 31	704	(1.7- 2.9+)	1998 11 11	704	(3.1- 0.4-)
1991 11 05	887	(0.5+ 2.0+)	1998 08 31	704	0.1+ 0.2-	1998 12 16	699	0.8- 0.4+
1991 11 05	887	1.6- 0.6- Y	1998 08 31	704	(2.2- 0.7+)	1998 12 16	699	1.0- 0.6-
1991 12 03	675	1.2+ 0.2-	1998 08 31	704	0.0 1.9-	1999 01 08	699	1.0- 0.2-
1991 12 03	675	1.1+ 0.8-	1998 10 18	699	0.7+ 0.1-	1999 01 08	699	1.4- 0.4-
1996 04 06	327	0.1+ 0.1+	1998 10 18	699	0.3+ 0.4+	1999 01 08	699	1.1- 0.3-
1996 04 06	327	0.0 0.7+	1998 10 18	699	0.3- 0.9+	2000 03 04	703	0.9+ 1.1+
1996 04 06	327	0.2- 0.6+	1998 10 29	704	0.8+ 0.2-	2000 03 04	703	0.6+ 0.1-
1996 04 07	327	0.4- 0.1+	1998 10 29	704	0.4+ 1.0-	2000 03 04	703	0.3- 0.6+
1996 04 07	327	0.2- 0.0	1998 10 29	704	(2.7- 2.1-)	2000 03 04	703	0.6+ 0.3-
1996 04 07	327	0.8- 0.1-	1998 10 29	704	0.5- 0.1+	2000 04 06	704	0.0 0.1+
1996 04 08	327	1.3+ 0.5+	1998 10 29	704	0.1+ 0.3+	2000 04 06	704	0.6+ 0.6-
1996 04 08	327	1.4+ 0.5+	1998 11 10	704	0.1- 0.1-	2000 04 06	704	0.1- 0.6-
1996 04 08	327	1.4+ 0.2+	1998 11 10	699	0.5+ 0.3+	2000 04 06	704	0.0 0.2+
1996 04 09	327	0.1- 0.2+	1998 11 10	704	0.4- 0.3+	2000 04 06	704	0.0 0.1-
1996 04 09	327	0.1+ 0.1-	1998 11 10	704	1.0- 0.8+	2000 04 08	704	0.0 0.7-
1996 04 09	327	0.4- 0.5+	1998 11 10	704	0.6+ 1.1+	2000 04 08	704	0.5- 0.1+
1996 04 18	327	0.0 0.4+	1998 11 10	699	0.1+ 0.2-	2000 04 08	704	0.3- 0.4-

2000 APR. 18

M.P.C. 39851

1996 04 18	327	0.3−	0.2+	1998 11 10	704	0.5−	0.9+	2000 04 08	704	0.4−	0.4−
1996 04 18	327	0.4−	0.0	1998 11 10	699	0.6+	0.1−	2000 04 08	704	1.0−	1.0+
1996 04 20	327	0.2+	0.1+	1998 11 11	704	0.3+	0.3−				
1996 04 20	327	0.2+	0.1−	1998 11 11	704	0.3+	0.1−				

(14513)* 1996 GK₁₇ = 1976 UO₁₂ = 1998 XO₇₈

Discovered 1996 Apr. 15 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33694)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	129.72754		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.22795100	<i>ω</i>	214.98768	+0.74310189		−0.66911302	
<i>a</i>	2.6540456	<i>Ω</i>	187.03354	+0.63005377		+0.70429279	
<i>e</i>	0.0587874	<i>i</i>	4.37751	+0.22545914		+0.23719072	
<i>P</i>	4.32	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 10 22	381	0.3−	0.2+	1999 01 06	120	0.2+	0.3+	2000 04 04	704	0.5−	0.4+
1976 10 22	381	0.6−	0.6+	1999 01 07	704	(3.5+	0.5−)	2000 04 04	704	0.6−	0.7+
1993 09 20	010	0.3−	0.4−	1999 01 07	704	0.9+	0.6−	2000 04 04	704	0.1−	0.6+
1993 09 20	010	0.7−	0.7−	1999 01 07	704	(2.1+	1.4+)	2000 04 04	704	0.3−	0.7+
1993 09 20	010	1.3−	0.2−	1999 01 07	704	0.5−	0.2−	2000 04 05	704	0.2−	0.3+
1996 03 24	809	(2.3+	0.2+)	2000 02 25	691	0.8−	0.5−	2000 04 05	704	0.3−	0.2+
1996 03 24	809	1.8+	1.5−	2000 02 25	691	1.1−	0.5−	2000 04 05	704	0.3−	0.4+
1996 03 24	809	1.9+	0.0	2000 02 25	691	0.8−	1.0−	2000 04 05	704	0.1−	0.6+
1996 03 26	809	1.2+	0.2−	2000 03 08	704	0.5+	0.5−	2000 04 05	704	0.3−	0.3+
1996 03 26	809	1.6+	0.1+	2000 03 08	704	0.2+	0.3−	2000 04 06	704	0.3+	0.5+
1996 03 26	809	1.5+	0.8−	2000 03 08	704	0.9−	0.7−	2000 04 06	704	0.0	0.4+
1996 04 15	809	(2.5+	0.2+)	2000 03 08	704	0.2−	0.7−	2000 04 06	704	0.1−	0.4+
1996 04 15	809	(2.3+	0.2−)	2000 03 08	704	0.5−	0.4−	2000 04 06	704	0.2−	0.3+
1996 04 15	809	(2.7+	0.0)	2000 03 10	704	0.0	0.2+	2000 04 06	704	0.1−	0.3+
1996 04 17	809	(3.0+	1.0−)	2000 03 10	704	0.3+	0.1−	2000 04 07	699	0.8−	0.1+
1996 04 17	809	(2.8+	1.8−)	2000 03 10	704	0.0	0.0	2000 04 07	699	0.1+	0.4+
1996 04 17	809	0.9+	1.7−	2000 03 10	704	0.4+	0.1+	2000 04 07	699	0.8−	0.2+
1998 12 15	704	1.0+	0.4−	2000 03 10	704	0.4+	0.3−	2000 04 07	699	0.1+	0.3+
1998 12 15	704	0.4−	0.6+	2000 03 11	704	0.1−	0.0	2000 04 07	699	0.5−	0.2−
1998 12 15	704	1.3+	0.3+	2000 03 11	704	0.4−	0.1−	2000 04 07	699	0.5+	0.5+
1998 12 15	704	0.8+	0.3+	2000 03 11	704	0.0	0.2+	2000 04 07	699	1.0−	0.1+
1998 12 15	704	0.1−	0.4+	2000 03 11	704	0.6+	0.2+	2000 04 07	699	0.2−	0.5+
1998 12 22	704	0.4−	0.0	2000 03 11	704	0.4+	0.4+	2000 04 08	704	0.4−	0.3−
1998 12 22	704	0.9+	0.1+	2000 03 14	703	0.0	0.0	2000 04 08	704	0.1+	0.3+
1998 12 22	704	0.9+	0.1−	2000 03 14	703	0.3+	0.5−	2000 04 08	704	0.2+	0.2+
1998 12 22	704	1.1−	1.4−	2000 03 14	703	1.2−	1.1+	2000 04 08	704	0.2−	0.1−
1999 01 06	120	0.3+	0.1+	2000 03 14	703	0.6+	0.2−	2000 04 08	704	0.7−	0.4+
1999 01 06	120	0.7+	0.3+	2000 04 04	704	0.5−	0.2+				

(14514)* 1996 GA₁₈ = 1992 LO

Discovered 1996 Apr. 15 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 28303)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	332.29160		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.23774707	<i>ω</i>	10.51402	−0.81185822		+0.58137372	
<i>a</i>	2.5806311	<i>Ω</i>	205.26893	−0.54440340		−0.78706047	
<i>e</i>	0.1428747	<i>i</i>	7.23595	−0.21097669		−0.20625331	
<i>P</i>	4.15	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 04 16	675	0.0	1.9−	1996 04 15	809	0.8−	1.1+	2000 04 05	704	0.2−	0.1+
1971 04 16	675	1.0+	1.1−	1996 04 15	809	0.7−	0.3+	2000 04 05	704	0.2−	0.2+
1971 05 14	675	0.9−	0.5−	1996 04 17	809	(0.1+	2.4+)	2000 04 05	704	0.3−	0.3+
1971 05 14	675	1.8−	0.6−	1996 04 17	809	(0.4+	2.4+)	2000 04 05	704	0.0	0.5+
1992 05 03	809	(3.0+	1.0+)	1996 04 17	809	0.9−	1.6+	2000 04 06	704	0.1−	0.1−
1992 05 03	809	(3.8+	0.8−)	1996 04 22	566	0.6+	0.5+	2000 04 06	704	0.0	0.3+
1992 05 03	809	(4.1+	0.8−)	1996 04 22	566	0.4+	0.2+	2000 04 06	704	0.2−	0.1+

1992 06 03	675	0.5+	0.3+	1996 04 22	566	0.2+	0.1+	2000 04 06	704	0.4−	0.3+
1992 06 03	675	0.2−	0.7−	2000 01 10	704	0.5+	0.2−	2000 04 06	704	0.1−	0.5+
1992 06 05	675	(5.5−	1.3+)	2000 01 10	704	0.0	0.1+	2000 04 07	704	0.4−	0.6−
1992 06 06	675	0.4+	0.7−	2000 01 10	704	1.6+	1.5−	2000 04 07	704	0.6+	0.4+
1992 06 06	675	0.8−	1.7−	2000 01 10	704	0.0	0.1−	2000 04 07	704	0.4+	0.8+
1996 03 22	809	(4.0+	1.0−)	2000 01 10	704	0.9−	1.1−	2000 04 07	704	0.6+	1.1+
1996 03 22	809	(3.7+	0.7−)	2000 03 03	703	0.0	0.3+	2000 04 07	704	1.0+	0.4+
1996 03 22	809	(4.1+	1.3−)	2000 03 03	703	0.4−	0.2+	2000 04 08	704	0.2−	0.4−
1996 03 24	809	1.0−	0.5+	2000 03 03	703	0.0	0.3+	2000 04 08	704	0.4−	0.2−
1996 03 24	809	0.2+	0.7+	2000 03 03	703	0.9−	0.7+	2000 04 08	704	0.3+	0.4−
1996 03 24	809	0.4−	0.3−	2000 03 08	608	(1.1+	2.8−)	2000 04 08	704	0.3−	0.1−
1996 03 26	809	1.8+	1.8−	2000 03 08	608	0.8+	1.7−	2000 04 08	704	0.1−	0.2−
1996 03 26	809	0.8+	0.3−	2000 03 08	608	1.1+	1.5−	2000 04 10	704	0.1+	0.0
1996 03 26	809	0.3+	0.2+	2000 03 27	699	0.5−	0.2+	2000 04 10	704	0.3+	0.2−
1996 03 27	809	1.6+	1.6+	2000 03 27	699	0.5−	0.4+	2000 04 10	704	0.0	0.2−
1996 03 27	809	(1.2+	3.3+)	2000 03 27	699	0.3−	0.5+	2000 04 10	704	0.1+	0.1−
1996 03 27	809	(1.0+	2.6+)	2000 03 27	699	0.6−	0.3+	2000 04 10	704	0.2−	0.2−
1996 04 15	809	0.3−	1.3+	2000 04 05	704	0.2−	0.1+				

(14515)* 1996 HL₁ = 1971 CF = 1998 XU₉₁

Discovered 1996 Apr. 21 by T. Okuni at Nanyo.

Id. G. V. Williams (*MPC* 33695)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	115.01269		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.24470340	<i>ω</i>	259.50833	+0.15168531		−0.98842041	
<i>a</i>	2.5314890	<i>Ω</i>	181.78239	+0.95042231		+0.14698533	
<i>e</i>	0.1289696	<i>i</i>	7.53851	+0.27145719		+0.03768816	
<i>P</i>	4.03	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 02 01	029	0.0	0.4−	1998 12 15	704	0.9−	0.3−	2000 02 10	704	0.5−	1.0+
1971 02 02	029	0.1+	0.5+	1998 12 15	704	0.8+	0.2+	2000 02 10	704	0.1−	0.7+
1996 04 21	358	1.0−	0.9−	1998 12 15	704	1.4+	0.3−	2000 03 03	703	0.6−	0.5−
1996 04 21	358	1.8−	1.0+	1998 12 22	704	1.2+	0.5−	2000 03 03	703	0.2+	0.6+
1996 04 22	358	0.6+	0.3−	1998 12 22	704	0.8+	0.5−	2000 03 03	703	0.2−	0.0
1996 04 22	358	0.3+	1.9−	1998 12 22	704	(0.2−	2.1−)	2000 03 03	703	0.8−	0.4+
1996 04 23	358	0.7−	1.1−	1999 01 18	704	0.5−	0.4−	2000 03 12	699	0.8+	0.1−
1996 04 23	358	1.9−	1.2−	1999 01 18	704	0.8−	0.5+	2000 03 12	699	0.8+	0.1−
1996 05 13	358	(0.8−	2.1−)	1999 01 18	704	0.6−	1.5+	2000 03 12	699	0.5+	0.2+
1996 05 13	358	0.2+	0.3−	1999 01 18	704	1.2−	1.8+	2000 03 12	699	0.6+	0.2+
1996 05 24	358	(2.5−	0.6+)	1999 01 18	704	0.5−	1.5+	2000 04 07	704	0.6+	0.5+
1996 05 24	358	0.8+	1.6−	1999 01 20	704	0.0	0.3−	2000 04 07	704	0.8+	0.3+
1997 09 01	566	0.1−	0.6+	1999 01 20	704	0.1−	0.3−	2000 04 07	704	0.3−	0.6+
1997 09 01	566	0.1+	0.6+	1999 01 20	704	1.6+	0.7−	2000 04 07	704	0.4+	1.1+
1997 09 01	566	0.2−	0.7+	1999 01 20	704	(3.1+	2.5−)	2000 04 07	704	0.6+	0.9+
1998 12 15	704	1.1−	0.4−	1999 01 20	704	(1.2+	4.1+)				
1998 12 15	704	0.3−	1.5−	2000 02 10	704	0.6+	1.5+				

(14516)* 1996 HM₁₁ = 1976 SB₉ = 1992 LJ₃ = 1993 TS₄₃

Discovered 1996 Apr. 17 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 27561)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	235.20625		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23300554	ω	125.94018	+0.73830061	+0.67434619
a	2.6155231	Ω	191.67550	−0.63768250	+0.69161335
e	0.0678041	i	3.68771	−0.21971170	+0.25870481
P	4.23	H	14.0	G 0.15	U 1

1993 10 10	809	(0.7+ 2.1-)	2000 03 05	120	1.6+ 1.8-	2000 04 05	704	0.6+ 0.3+
1993 10 10	809	0.6- 1.8-	2000 03 06	608	0.1+ 0.8-	2000 04 05	704	0.7+ 0.3+
1993 10 22	809	(1.3+ 2.7-)	2000 03 06	608	0.0 0.7-	2000 04 05	704	0.5+ 0.7+
1993 10 22	809	(0.1+ 2.3-)	2000 03 06	608	0.3- 0.8-	2000 04 06	699	0.0 0.6+
1993 10 22	809	(0.8- 2.5-)	2000 03 06	120	(2.3+ 0.7+)	2000 04 06	704	0.3+ 0.0
1996 04 17	809	0.9+ 0.0	2000 03 06	120	0.9- 0.4-	2000 04 06	699	0.1+ 0.2+
1996 04 17	809	0.7+ 1.2+	2000 03 07	120	0.9+ 0.2+	2000 04 06	704	0.1- 0.5-
1996 04 17	809	0.0 1.0+	2000 03 09	120	1.0- 1.0-	2000 04 06	704	0.7+ 0.7+
1996 04 18	809	0.8+ 0.2-	2000 03 09	120	0.2- 0.4+	2000 04 06	699	0.1+ 0.0
1996 04 18	809	0.1+ 0.2-	2000 03 09	704	1.0- 1.6+	2000 04 06	704	0.0 0.6+
1996 04 18	809	0.1- 0.4-	2000 03 09	704	0.3- 0.5+	2000 04 06	699	0.2+ 0.1+
1996 06 08	809	0.9- 0.8-	2000 03 09	704	0.1+ 0.6+	2000 04 06	704	0.2+ 0.7+
1996 06 08	809	0.6- 1.5-	2000 03 09	704	0.6+ 1.0+	2000 04 07	704	0.9+ 0.4+
1996 06 08	809	1.1- 0.7-	2000 03 09	704	0.7+ 1.1+	2000 04 07	704	0.5+ 0.6-
1996 06 10	809	0.8- 1.8-	2000 03 10	704	0.3- 1.2-	2000 04 07	704	0.6+ 0.3-
1996 06 10	809	1.0- 0.2-	2000 03 10	704	0.3+ 0.6-	2000 04 07	704	0.9+ 0.0
1996 06 10	809	0.3- 0.7-	2000 03 10	704	0.1+ 0.4-	2000 04 08	704	1.4+ 0.2-
1997 09 12	557	0.0 0.5+	2000 03 10	704	0.3+ 0.2+	2000 04 08	704	0.6+ 0.1+
1997 09 12	557	0.0 0.3+	2000 03 17	120	0.5- 0.9-	2000 04 08	704	0.1- 0.4+
1997 09 12	557	0.0 0.4+	2000 03 17	120	(4.7- 0.6+)	2000 04 08	704	0.0 0.2+
1997 09 28	691	0.3- 1.1+	2000 03 27	691	0.6- 0.4-	2000 04 08	704	0.3+ 0.2+
1997 09 28	691	0.4- 1.1+	2000 03 27	691	0.5- 0.2-	2000 04 10	704	0.5+ 1.0+
1997 09 28	691	0.5- 1.0+	2000 03 27	691	0.4- 0.2-	2000 04 10	704	0.3- 0.5+
1998 12 16	747	0.0 0.7-	2000 03 27	691	0.5- 0.3-	2000 04 10	704	0.3+ 0.2+
1998 12 16	747	0.1+ 0.9-	2000 03 27	699	0.1- 0.2+	2000 04 10	704	0.2- 0.4+
1998 12 16	747	0.3- 0.5-	2000 03 27	691	0.8- 0.2-	2000 04 10	704	0.6- 0.4+
1998 12 17	747	0.5- 0.2-	2000 03 27	699	0.4+ 0.3+	2000 04 11	691	0.4- 0.4-
1998 12 17	747	0.8- 0.7+	2000 03 27	691	0.6- 0.0	2000 04 11	691	0.3- 0.4-
1998 12 28	360	0.0 0.2-	2000 03 27	699	0.5+ 0.4+	2000 04 11	691	0.4- 0.4-
1998 12 28	360	0.1- 0.4-	2000 03 27	699	0.4+ 0.5+			

(14517)* 1996 LJ₁

Discovered 1996 June 13 by P. Pravec at Ondřejov.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	287.89628		(2000.0)		$\mathbf{P}$	$\mathbf{Q}$	
n	0.21325226	ω	48.82750		-0.04733255	+0.98641896	
a	2.7746420	Ω	219.31554		-0.97460298	-0.08010912	
e	0.1262929	i	14.37323		-0.21888046	+0.14338816	
P	4.62	H	13.8	G	0.15	U	1

Residuals in seconds of arc

1996 06 13	557	0.3+ 0.2+	1996 08 19	557	0.1- 0.3-	1999 01 05	557	0.4- 0.5+
1996 06 13	557	0.3- 0.0	1997 09 13	557	0.7- 0.8+	1999 01 05	557	0.6- 0.2+
1996 06 14	557	0.5+ 0.5+	1997 09 13	557	0.4- 0.7+	1999 01 05	557	1.2- 0.4+
1996 06 14	557	0.0 0.3+	1997 09 13	557	0.3- 0.3+	2000 02 04	557	0.1+ 0.3-
1996 06 14	557	0.2+ 0.4+	1997 09 15	557	0.1- 0.1+	2000 02 04	557	0.3- 0.9-
1996 06 14	557	0.5+ 0.3+	1997 09 15	557	0.2- 0.2+	2000 02 28	557	0.4+ 0.2-
1996 06 16	557	0.5+ 0.1+	1997 09 15	557	0.3- 0.0	2000 02 28	557	0.6+ 0.2-
1996 06 16	557	0.2+ 0.1+	1997 09 15	557	0.1- 0.0	2000 03 08	608	0.7- 1.1-
1996 06 16	557	0.0 0.2+	1997 09 26	557	0.1- 0.1+	2000 03 08	608	0.5- 1.3-
1996 06 19	557	0.4+ 0.3-	1997 09 26	557	0.6- 0.1+	2000 03 08	608	0.7- 1.4-
1996 06 19	557	0.1+ 0.1-	1997 10 05	557	0.1- 0.6-	2000 03 12	699	0.5- 1.1+
1996 06 19	557	0.0 0.1-	1997 10 05	557	0.0 0.6-	2000 03 12	699	0.7- 0.9+
1996 06 25	557	0.2- 0.2-	1997 10 30	704	0.3+ 0.5+	2000 03 12	699	0.0 0.8+
1996 06 25	557	0.2- 0.1-	1997 10 30	704	0.2+ 0.2+	2000 03 12	699	0.1- 0.8+
1996 06 25	557	0.3- 0.0	1997 10 30	704	0.1+ 0.9+	2000 03 25	557	0.2- 0.2+
1996 07 14	557	0.1- 0.4+	1997 10 30	704	1.1+ 0.1+	2000 03 26	557	0.4- 0.0
1996 07 14	557	0.2+ 0.1+	1997 10 30	704	1.0+ 0.1+	2000 04 07	704	0.1- 0.0
1996 07 19	557	0.2+ 0.2-	1998 11 24	557	0.1+ 0.2-	2000 04 07	704	0.6+ 0.4+
1996 07 19	557	0.4- 0.4-	1998 11 24	557	0.0 0.1-	2000 04 07	704	0.1+ 0.8+
1996 07 19	557	0.4- 0.2-	1998 12 10	557	0.1+ 0.0	2000 04 07	704	0.5+ 1.2+
1996 08 05	557	0.1- 0.3+	1998 12 10	557	0.7- 0.7-	2000 04 07	704	0.3+ 1.2+
1996 08 05	557	0.3- 0.1+	1998 12 15	704	0.2+ 0.5+	2000 04 08	557	1.1+ 0.5-
1996 08 05	557	0.3- 0.6-	1998 12 15	704	1.4+ 1.1-	2000 04 08	557	1.0+ 0.1-
1996 08 05	557	0.3- 1.2-	1998 12 15	704	0.6+ 0.4-			
1996 08 05	557	0.2- 0.2-	1998 12 15	704	(2.6- 0.3+)			

(14518)* 1996 RZ₃₀ = 1997 TF₂₉

Discovered 1996 Sept. 13 by the Uppsala-DLR Trojan Survey at the European Southern Observatory.

Id. A. Doppler (*MPC* 39173)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	35.85721		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.08179920	ω	252.35213	+0.31754525	-0.94824156
a	5.2557738	Ω	179.12773	+0.90717383	+0.30326392
e	0.1464591	i	6.48253	+0.27604467	+0.09417503
P	12.05	H	12.1	G 0.15	U 2

Residuals in seconds of arc

1996 09 06	691	0.0 0.1+	1997 10 28	557	0.1- 0.5+	1999 12 14	704	0.9+ 1.1+
1996 09 06	691	0.2- 0.1+	1997 10 29	557	0.2- 0.4+	2000 01 05	704	(2.2- 4.4-)
1996 09 06	691	0.2- 0.3+	1997 10 30	704	1.0- 0.5-	2000 01 05	704	0.1+ 0.3-
1996 09 13	809	0.2+ 0.4-	1997 10 30	704	0.3- 0.2+	2000 01 05	704	(0.9- 2.1+)
1996 09 14	809	0.1+ 0.1-	1997 10 30	704	0.9+ 0.6-	2000 01 07	704	0.3- 1.0-
1996 09 14	809	0.1+ 0.0	1997 10 30	704	0.2- 1.3-	2000 01 07	704	1.8- 1.2-
1996 09 14	809	0.5+ 0.2+	1997 10 30	704	0.1+ 1.2-	2000 01 07	704	0.1- 1.3-
1996 09 15	809	0.1+ 0.3-	1997 10 30	566	0.6- 0.4+	2000 01 07	704	1.2- 0.7-
1996 09 15	809	0.0 0.1-	1997 10 30	566	0.1- 0.1+	2000 02 02	704	1.7+ 1.0+
1996 09 22	809	0.0 0.3-	1997 10 30	566	0.0 0.4+	2000 02 02	704	0.2+ 0.6+
1996 09 22	809	0.2- 0.3-	1998 12 16	699	0.4- 1.7+	2000 02 02	704	0.3- 0.1-
1997 10 06	809	0.5- 0.1-	1998 12 16	699	0.5+ 0.4+	2000 02 02	704	0.1- 0.2-
1997 10 06	809	1.2+ 1.0+	1998 12 16	699	0.1- 0.0	2000 02 02	704	0.0 0.1-
1997 10 07	809	0.1- 0.3-	1999 12 14	704	0.1+ 0.3-			
1997 10 07	809	0.8+ 0.1+	1999 12 14	704	0.5+ 0.6+			

(14519)* 1996 TT₃₈ = 1982 BC₁₅ = 1997 WM₃₂

Discovered 1996 Oct. 8 by E. W. Elst at the European Southern Observatory.

Id. S. Nakano (*MPC* 32245)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	336.91565		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17207480	ω	127.05752	-0.70294094	+0.71008113
a	3.2012864	Ω	98.22512	-0.66492472	-0.63575214
e	0.1502174	i	2.35850	-0.25248595	-0.30266153
P	5.73	H	13.2	G 0.15	U 1

Residuals in seconds of arc

1982 01 30	675	0.9- 0.1+	1998 12 11	691	0.3+ 0.1-	2000 02 10	704	0.2+ 0.6-
1982 01 31	675	0.8+ 0.6+	1998 12 11	691	0.5+ 0.1-	2000 02 10	704	0.3+ 0.1-
1991 11 03	691	0.4+ 0.5+	1998 12 11	691	(1.9- 3.7-)	2000 02 11	704	0.1+ 0.0
1991 11 03	691	0.6+ 0.4+	1998 12 22	691	0.2- 0.4-	2000 02 11	704	0.0 0.4+
1991 11 03	691	0.1- 0.5-	1998 12 22	691	0.1- 0.4-	2000 02 11	704	1.3+ 0.5+
1996 10 07	809	(1.6+ 4.1+)	1998 12 22	691	0.1- 0.1-	2000 03 26	649	0.2- 0.9+
1996 10 07	809	(1.7+ 3.8+)	1998 12 28	691	0.7- 0.7-	2000 03 26	649	0.1+ 0.0
1996 10 07	809	(1.4+ 3.3+)	1998 12 28	691	0.5- 0.1-	2000 04 04	699	0.3- 0.2-
1996 10 08	809	(1.3- 2.4+)	1998 12 28	691	0.9- 0.0	2000 04 04	699	0.6- 0.1+
1996 10 08	809	(1.3- 2.3+)	1999 01 06	699	0.5+ 0.9+	2000 04 04	699	0.5- 0.0
1996 10 08	809	(0.4- 2.5+)	1999 01 06	699	1.1+ 1.1+	2000 04 04	699	0.7- 0.2-
1996 10 10	809	(2.5+ 4.6+)	1999 01 06	699	0.8- 1.1+	2000 04 07	704	0.6+ 0.3+
1996 10 10	809	(0.7+ 4.4+)	1999 01 16	684	0.2+ 0.4-	2000 04 07	704	1.2+ 0.9-
1996 10 10	809	(0.9+ 4.4+)	1999 01 16	684	0.3+ 0.2-	2000 04 07	704	0.8+ 0.3-
1996 10 12	566	0.1- 0.0	1999 01 19	704	0.1+ 0.1+	2000 04 07	704	1.2+ 0.1+
1996 10 12	566	0.4+ 0.1+	1999 01 19	704	1.8+ 0.8+	2000 04 07	704	0.2+ 0.2+
1996 10 12	566	1.0- 0.3+	1999 01 19	704	0.4+ 0.0	2000 04 08	704	0.5- 0.1-
1997 11 29	704	0.4- 0.4-	1999 02 10	704	1.4- 1.2-	2000 04 08	704	0.5- 0.1+
1997 11 29	704	0.8- 2.0+	1999 02 10	704	0.6- 0.6+	2000 04 08	704	0.5- 0.2+
1997 11 29	704	1.2- 0.2+	1999 02 10	704	0.3+ 0.9-	2000 04 08	704	0.4- 0.4+
1997 11 29	704	0.5- 1.2-	1999 02 10	704	0.9+ 1.0-	2000 04 08	704	0.4- 0.3+
1997 12 04	704	0.1- 0.4-	1999 02 10	704	1.2- 0.6-	2000 04 10	608	0.2- 0.4-
1997 12 04	704	1.5+ 0.6+	2000 02 10	704	0.5- 0.2+	2000 04 10	608	0.2- 0.2-
1997 12 04	704	0.6+ 1.1-	2000 02 10	704	0.1+ 0.6+	2000 04 10	608	0.2+ 0.4-
1997 12 04	704	0.3+ 0.8+	2000 02 10	704	0.2+ 0.6+			

(14520)* 1997 GC₁₁ = 1994 RC₁₉ = 2000 AL₉₄

Discovered 1997 Apr. 3 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. A. Doppler (*MPC* 39176)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23435165	ω	5.31998	+0.99125616	+0.13155088		
<i>a</i>	2.6054978	Ω	347.10717	−0.12269826	+0.89029554		
<i>e</i>	0.2178817	<i>i</i>	2.63952	−0.04854233	+0.43596813		
<i>P</i>	4.21	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 08 12	809	0.6+	0.6−	1998 06 26	704	0.7−	0.8+	2000 01 03	704	(2.3+	0.5−)
1994 08 12	809	0.2−	0.9−	1998 06 26	704	2.0−	0.7+	2000 01 03	704	1.0+	0.9−
1994 08 12	809	0.7−	0.8−	1998 07 02	699	1.2+	0.4+	2000 01 03	704	0.5+	0.1+
1994 09 05	809	0.4+	0.4−	1998 07 02	699	0.2−	0.1−	2000 01 04	704	0.7−	1.4−
1994 09 05	809	0.0	0.1+	1998 07 02	699	0.0	0.0	2000 01 04	704	0.0	0.6−
1994 09 05	809	0.3−	0.3+	1998 07 16	699	0.4−	0.7+	2000 01 04	704	1.3+	0.6−
1994 09 06	809	0.0	1.9+	1998 07 16	699	0.4+	1.0+	2000 01 04	704	0.1+	0.5+
1994 09 06	809	0.5−	1.7+	1998 07 16	699	0.1−	0.3+	2000 01 04	704	0.6−	0.8−
1994 09 06	809	(1.2−	2.2+)	1998 08 17	704	0.3−	0.3+	2000 01 07	704	(2.1−	1.0+)
1997 03 11	809	0.3−	1.0+	1998 08 17	704	0.6+	1.9−	2000 01 07	704	0.6−	0.3+
1997 03 11	809	0.0	0.2+	1998 08 17	704	0.0	0.7+	2000 01 07	704	0.3−	1.1+
1997 03 11	809	0.5−	0.7+	1998 08 17	704	0.8+	0.3+	2000 01 07	704	0.1+	0.5−
1997 04 03	704	(3.1+	0.7−)	1998 08 17	704	1.1+	0.2−	2000 01 07	704	0.0	1.0+
1997 04 03	704	1.7+	0.0	1999 12 10	704	0.3+	0.7+	2000 01 30	704	1.5+	0.1−
1997 04 07	704	(3.4+	0.8−)	1999 12 10	704	0.3−	0.6+	2000 01 30	704	1.1−	0.8+
1997 04 07	704	(3.0+	1.0−)	1999 12 10	704	0.1−	0.2−	2000 01 30	704	0.7−	0.8+
1998 06 26	704	0.0	0.2−	1999 12 10	704	0.2−	0.4+	2000 01 30	704	0.5+	1.4+
1998 06 26	704	1.7−	0.7+	1999 12 10	704	0.2−	1.2+	2000 01 30	704	0.0	1.8+

(14521)* 1997 GL₁₅ = 1987 YU₅ = 1999 XX₁₇₃

Discovered 1997 Apr. 3 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. M. E. Sansaturio (*MPC* 37667), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24487280	ω	5.98645	+0.96788990	−0.25092184		
<i>a</i>	2.5303214	Ω	8.59054	+0.22624139	+0.84340438		
<i>e</i>	0.2201699	<i>i</i>	5.79370	+0.10956262	+0.47508661		
<i>P</i>	4.02	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 12 24	010	1.7−	0.1−	1999 10 13	704	0.1−	0.8+	2000 01 02	704	0.4−	0.7−
1987 12 24	010	1.0+	0.1−	1999 10 13	704	0.4+	0.9+	2000 01 02	704	0.1−	0.8−
1987 12 24	010	0.7+	0.6+	1999 11 05	699	0.7+	1.1+	2000 01 02	704	0.4−	1.3−
1997 03 11	809	0.2+	0.4−	1999 11 05	699	0.3−	0.6+	2000 01 02	704	0.7−	1.4−
1997 03 11	809	0.2−	0.7−	1999 11 05	699	0.1−	1.0+	2000 01 29	704	0.1+	0.1−
1997 03 11	809	0.7−	0.0	1999 11 12	703	0.6−	0.2+	2000 01 29	704	0.0	0.1−
1997 03 13	809	1.4+	0.7+	1999 11 12	703	0.1+	0.4+	2000 01 29	704	0.1+	0.5−
1997 03 13	809	1.4+	0.5+	1999 11 12	703	0.1+	0.5+	2000 01 29	704	0.1−	0.3−
1997 03 13	809	1.9+	1.2+	1999 11 12	703	0.5+	0.6+	2000 01 29	704	0.1+	0.6−
1997 04 03	704	0.9+	0.4+	1999 12 03	699	0.6+	0.2−	2000 01 30	704	0.1+	0.2+
1997 04 03	704	1.6−	0.3−	1999 12 03	699	0.0	0.5+	2000 01 30	704	0.2−	0.1−
1997 04 05	704	1.2−	1.1−	1999 12 03	699	0.6+	0.3+	2000 01 30	704	0.3+	0.2−
1997 04 05	704	0.5−	0.5+	1999 12 10	704	0.1−	0.3−	2000 01 30	704	0.1+	0.2−
1997 04 06	704	0.2+	0.6+	1999 12 10	704	0.1−	0.2−	2000 01 30	704	0.4+	0.6+
1997 04 06	704	0.3+	0.0	1999 12 10	704	0.8−	0.2−	2000 02 11	704	0.3−	0.0
1997 04 07	704	0.3−	0.4+	1999 12 10	704	0.2−	0.2+	2000 02 11	704	0.2−	0.0
1997 04 07	704	0.6−	0.8−	1999 12 10	704	0.7−	0.1+	2000 02 11	704	0.2−	0.3−
1998 07 21	704	1.0−	0.4−	1999 12 15	704	0.1+	0.4−	2000 02 11	704	0.5+	1.0+
1998 07 21	704	0.6−	0.5−	1999 12 15	704	0.1+	0.5−	2000 04 02	704	0.4−	0.1+
1998 07 21	704	0.1+	0.8−	1999 12 15	704	0.2−	0.5−	2000 04 02	704	0.1+	0.7−
1998 07 21	704	1.6+	1.5−	1999 12 15	704	0.3−	1.3−	2000 04 02	704	0.6+	0.9+

1999 10 13	704	0.8+	0.9+	1999 12 15	704	0.3−	1.3−
1999 10 13	704	0.0	0.6+	2000 01 02	704	0.0	0.8−

(14522)* 1997 GS₂₁ = 1990 RQ₁₁ = 1998 SD₁₂₇

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 32961)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25342894	ω	292.22507	+0.90896792	+0.40547254		
<i>a</i>	2.4730444	Ω	44.01472	−0.31241135	+0.81632294		
<i>e</i>	0.1303542	<i>i</i>	8.00766	−0.27600087	+0.41135007		
<i>P</i>	3.89	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 09 14	675	0.5−	0.4+	1997 05 01	704	0.7+	0.5−	1998 10 17	699	0.3−	0.1−
1990 09 14	675	0.2+	0.3+	1997 05 01	704	0.1+	0.0	1998 10 17	699	0.8−	0.0
1997 04 02	704	0.1−	0.1+	1997 05 01	704	0.0	0.3+	1998 10 19	699	0.2−	1.0+
1997 04 02	704	0.8−	0.9−	1997 05 01	704	0.3−	0.1+	1998 10 19	699	0.2+	0.5+
1997 04 06	704	0.1+	0.2+	1997 05 01	704	0.8+	0.7−	1998 10 19	699	0.0	0.5+
1997 04 06	704	0.6−	1.2+	1997 05 01	704	0.1−	0.3+	1999 12 08	704	0.3−	0.5−
1997 04 07	809	0.5+	1.8+	1997 05 05	704	0.3−	0.3−	1999 12 08	704	0.0	0.1−
1997 04 07	809	0.4+	1.5+	1997 05 05	704	0.4−	0.2−	1999 12 08	704	0.4+	0.7−
1997 04 07	809	1.1+	1.6+	1997 05 05	704	0.0	0.6−	1999 12 08	704	0.2−	0.2+
1997 04 08	809	(0.6+	3.1+)	1997 05 05	704	0.3−	0.3−	2000 03 12	703	1.1+	0.4+
1997 04 08	809	(2.2+	3.7+)	1997 05 05	704	0.3−	0.4−	2000 03 12	703	0.1−	0.4−
1997 04 08	809	(0.4+	2.8+)	1998 09 26	704	0.7−	0.1+	2000 03 12	703	0.7−	0.6+
1997 04 08	704	0.2+	1.0+	1998 09 26	704	0.3+	0.7+	2000 03 12	703	0.0	0.7+
1997 04 08	704	0.1−	0.6+	1998 09 26	704	0.2−	0.1−	2000 03 12	699	0.2−	0.3+
1997 04 30	704	0.1+	0.1−	1998 09 26	704	0.2−	0.2−	2000 03 12	699	0.3−	0.1+
1997 04 30	704	0.0	0.1−	1998 09 26	704	0.1+	0.7+	2000 03 12	699	0.1+	0.3+
1997 04 30	704	0.1−	0.2−	1998 09 27	704	0.1−	0.1−	2000 03 12	699	0.9−	0.3+
1997 04 30	704	0.1+	0.1−	1998 09 27	704	0.0	0.2+	2000 04 02	704	0.5+	0.2−
1997 04 30	704	0.2+	0.2−	1998 09 27	704	0.1−	0.2−	2000 04 02	704	0.1−	0.9+
1997 05 01	704	(5.8−	0.6−)	1998 09 27	704	1.0+	0.6+	2000 04 02	704	0.7+	0.6−
1997 05 01	704	0.2+	0.1−	1998 09 27	704	0.1+	0.7−	2000 04 02	704	1.1+	0.3+
1997 05 01	704	0.0	0.4−	1998 10 17	699	0.7−	0.1+				

(14523)* 1997 GV₂₁ = 1995 WG₃ = 1999 XH₁₆₅

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. A. Doppler (*MPC* 39178)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28037288	ω	38.88144	−0.12988470	−0.98530876		
<i>a</i>	2.3119515	Ω	58.84328	+0.87428888	−0.16656234		
<i>e</i>	0.0587679	<i>i</i>	7.44541	+0.46770602	+0.03773111		
<i>P</i>	3.52	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 11 16	399	(1.3−	3.6+)	1997 05 01	704	1.0+	0.1+	2000 01 06	704	0.3+	0.2−
1995 11 16	399	(0.1−	4.7+)	1997 05 01	704	0.8+	0.1+	2000 01 06	704	0.0	0.9+
1995 11 18	399	0.1+	0.3−	1997 05 01	704	0.7+	0.2−	2000 01 31	704	0.0	0.4+
1995 11 18	399	0.9+	0.7+	1997 05 05	704	0.6+	0.1−	2000 01 31	704	0.3−	0.2−
1995 11 25	399	(2.5−	1.8+)	1997 05 05	704	0.3+	0.1−	2000 01 31	704	0.0	0.1−
1995 11 25	399	1.4−	0.4+	1997 05 05	704	0.6+	0.2−	2000 03 04	704	1.1−	0.8+
1997 04 06	704	0.1−	0.9+	1997 05 05	704	0.1+	0.1+	2000 03 04	704	1.2−	0.5+
1997 04 06	704	0.2−	0.5+	1997 05 05	704	0.2+	0.2+	2000 03 04	704	1.6−	0.8+
1997 04 07	809	(3.8−	0.7−)	1997 05 26	910	0.0	0.5+	2000 03 04	704	1.9−	1.0+
1997 04 07	809	(4.1−	1.2−)	1997 05 26	910	0.2−	0.4+	2000 03 12	704	0.6+	0.0
1997 04 07	809	(3.9−	1.2−)	1997 05 26	910	0.1−	0.5+	2000 03 12	704	0.0	0.0
1997 04 08	809	0.3−	0.1+	1998 09 22	699	1.1−	1.3+	2000 03 12	704	0.1+	0.2+
1997 04 08	809	1.2−	0.4−	1998 09 22	699	0.2+	0.6+	2000 03 12	699	0.1−	0.3+
1997 04 08	809	1.0−	0.1−	1998 09 22	699	0.4−	0.9+	2000 03 12	704	0.1−	0.1+
1997 04 08	704	0.7−	0.1+	1998 11 16	703	0.8+	0.3+	2000 03 12	703	0.2+	0.1+

1997 04 08	704	0.1−	0.6+	1999 11 16	703	1.1+	0.6+	2000 03 12	704	0.0	0.2+
1997 04 11	809	1.7−	0.3−	1999 11 16	703	0.4+	0.7+	2000 03 12	703	0.3+	0.1+
1997 04 11	809	(2.1−	2.0−)	1999 11 16	703	0.1+	0.3+	2000 03 12	699	0.2+	0.1−
1997 04 11	809	(2.3−	3.1−)	1999 12 08	704	0.1+	0.4−	2000 03 12	703	0.1+	0.1+
1997 04 12	809	(1.6−	2.9−)	1999 12 08	704	0.3+	0.6−	2000 03 12	699	0.2+	0.0
1997 04 12	809	1.9−	1.3−	1999 12 08	704	0.9+	0.8−	2000 03 12	703	0.0	0.1+
1997 04 12	809	1.8−	1.3−	1999 12 08	704	0.5+	0.7−	2000 03 12	699	0.0	0.1+
1997 04 30	704	0.3+	0.1+	1999 12 08	704	0.5+	1.1−	2000 03 26	858	0.1+	0.5+
1997 04 30	704	0.5+	0.2+	1999 12 15	704	0.7−	0.9−	2000 03 26	858	0.2−	0.4+
1997 04 30	704	0.7+	0.3+	1999 12 15	704	0.1+	0.2−	2000 04 02	704	0.0	1.0+
1997 04 30	704	0.4+	0.0	1999 12 15	704	0.6+	0.5−	2000 04 02	704	0.5+	0.1+
1997 04 30	704	0.5+	0.0	1999 12 15	704	0.2+	0.8−	2000 04 02	704	0.2+	0.0
1997 05 01	704	0.9+	0.2+	2000 01 06	704	0.8+	0.7−	2000 04 02	704	0.1+	0.2+
1997 05 01	704	1.7+	0.1−	2000 01 06	704	0.3+	0.0	2000 04 02	704	0.3+	0.4−

(14524)* 1997 GK₂₃ = 1992 GU₄

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 29934)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	150.57996				P		Q
<i>n</i>	0.19934350	ω	102.06408	+0.14647001		+0.98921239	
<i>a</i>	2.9022489	Ω	176.35593	−0.92119106		+0.13725194	
<i>e</i>	0.0261128	<i>i</i>	2.09124	−0.36049074		+0.05119325	
<i>P</i>	4.94	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 04 04	809	0.7+	0.6+	1998 08 17	704	0.9−	0.3−	1999 11 04	704	0.4−	0.2+
1992 04 04	809	0.2−	0.4+	1998 08 17	704	0.5−	0.1+	1999 11 04	704	0.7−	0.3−
1992 04 04	809	1.0−	0.3−	1998 08 17	704	0.3+	0.8+	1999 11 04	704	1.1−	0.9−
1992 04 06	809	0.1+	0.6+	1998 08 17	704	(2.6−	2.0+)	1999 11 04	704	0.9−	0.2−
1992 04 06	809	0.2−	0.1+	1999 10 08	691	0.4−	0.1+	1999 11 04	704	1.1−	0.2+
1992 04 06	809	0.8+	0.9−	1999 10 08	691	0.3−	0.0	1999 11 15	704	0.2+	0.2−
1997 04 06	704	0.8−	0.2−	1999 10 08	691	0.4−	0.0	1999 11 15	704	0.1+	0.2−
1997 04 06	704	1.0−	1.2+	1999 10 10	704	0.4+	0.1−	1999 11 15	704	0.0	0.0
1997 04 07	809	0.9−	0.1−	1999 10 10	704	0.1+	1.1−	1999 11 15	704	0.3+	0.0
1997 04 07	809	1.4−	0.3−	1999 10 10	704	0.3+	0.8−	1999 11 15	704	0.1+	0.3−
1997 04 07	809	1.5−	0.4−	1999 10 10	704	0.2+	1.0−	1999 11 17	704	0.5+	0.8+
1997 04 08	809	0.8+	1.2+	1999 10 10	704	1.2+	0.0	1999 11 17	704	0.7+	0.3−
1997 04 08	809	0.3−	1.7+	1999 10 11	691	1.3+	0.7+	1999 11 17	704	1.3+	1.5−
1997 04 08	809	0.6−	0.6+	1999 10 11	691	0.1+	0.0	1999 11 17	704	0.9+	0.6−
1997 04 08	704	0.7−	0.3−	1999 10 11	691	0.5+	0.0	1999 12 04	703	0.8−	0.3+
1997 04 08	704	0.7−	0.0	1999 10 15	704	0.4+	0.5−	1999 12 04	703	0.4+	0.0
1997 04 30	704	1.1+	0.3+	1999 10 15	704	0.6+	0.4−	1999 12 04	703	0.1−	0.0
1997 04 30	704	1.0+	0.7−	1999 10 15	704	0.8−	0.9+	1999 12 04	703	0.4−	0.7+
1997 04 30	704	0.8+	0.5+	1999 10 15	704	0.2+	0.1+	1999 12 07	704	0.2−	0.6+
1997 04 30	704	0.4+	0.1−	1999 10 21	704	1.0−	0.2+	1999 12 07	704	0.2+	0.5+
1997 04 30	704	0.3+	0.1−	1999 10 21	704	0.6−	0.5+	1999 12 07	704	0.1−	0.2+
1997 05 05	704	0.5+	0.0	1999 10 21	704	0.4+	0.2+	1999 12 07	704	0.4+	0.6−
1997 05 05	704	0.9+	0.1+	1999 10 21	704	0.6+	0.4+	1999 12 12	703	0.6−	1.5+
1997 05 05	704	0.9+	0.2+	1999 11 01	703	0.2−	1.5+	1999 12 12	703	1.8−	1.0+
1997 05 05	704	1.2+	0.3+	1999 11 01	703	0.2+	0.2+	1999 12 12	703	0.2+	1.1+
1997 05 05	704	0.9+	0.6+	1999 11 01	703	0.1−	0.6+	1999 12 12	703	0.7−	1.2+
1998 08 17	704	0.5+	0.9+	1999 11 01	703	0.5−	0.5+				

(14525)* 1997 GV₃₅ = 1998 VG₁₁

Discovered 1997 Apr. 6 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 33698)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.52166				P		Q
<i>n</i>	0.27962015	ω	71.34122	+0.21161609		+0.97557923	
<i>a</i>	2.3160988	Ω	211.06296	−0.93419205		+0.18420644	
<i>e</i>	0.1043548	<i>i</i>	6.54956	−0.28723481		+0.11963755	
<i>P</i>	3.52	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 11 04	691	0.2+	0.3+	1997 05 07	704	0.0	0.4+	1998 11 11	704	0.4−	0.2−
1991 11 04	691	0.5−	0.4+	1997 05 29	910	0.0	0.4−	2000 02 03	704	0.6−	0.1−
1991 11 04	691	0.0	0.8+	1997 05 29	910	0.1+	0.5−	2000 02 03	704	0.2−	0.6−
1997 04 06	704	0.1−	0.3+	1997 05 29	910	0.0	0.7−	2000 02 03	704	0.6+	0.5+
1997 04 06	704	0.3−	0.8−	1998 10 19	699	0.3+	1.1+	2000 02 03	704	0.2−	0.3+
1997 04 06	704	0.5−	0.4−	1998 10 19	699	0.1−	0.1+	2000 02 03	704	1.0−	0.7−
1997 04 06	704	0.0	0.0	1998 10 19	699	(2.7−	0.2+)	2000 02 06	704	0.2+	0.7−
1997 04 11	704	0.4+	0.5−	1998 11 10	704	0.4+	1.0−	2000 02 06	704	0.4+	0.3+
1997 04 11	704	0.6−	0.7−	1998 11 10	704	1.0+	0.4+	2000 02 06	704	1.8+	0.2−
1997 04 11	704	0.3−	0.2+	1998 11 10	704	0.4−	0.7+	2000 03 27	699	0.2−	0.6−
1997 04 11	704	0.7−	0.1−	1998 11 10	704	1.2+	0.0	2000 03 27	699	0.1−	0.2+
1997 05 07	704	0.2+	0.6+	1998 11 11	704	0.9+	1.9−	2000 03 27	699	0.4−	0.5+
1997 05 07	704	0.1+	0.1−	1998 11 11	704	0.7−	1.2−	2000 03 27	699	0.3−	1.5+
1997 05 07	704	0.9+	0.7+	1998 11 11	704	0.4−	0.6−				
1997 05 07	704	0.4+	0.9+	1998 11 11	704	1.3−	0.3+				

(14526)* 1997 JT₃ = 1990 RG₈

Discovered 1997 May 6 by P. G. Comba at Prescott.

Id. G. V. Williams (*MPC* 30282)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	208.65575				P		Q
<i>n</i>	0.26347577	ω	246.06547	+0.72681263		+0.68519621	
<i>a</i>	2.4097700	Ω	70.64541	−0.61047093		+0.67610628	
<i>e</i>	0.2229315	<i>i</i>	2.88150	−0.31475172		+0.27089934	
<i>P</i>	3.74	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 09 14	809	0.4+	1.4+	1997 05 06	684	0.0	0.4−	1998 12 13	684	0.1+	0.5−
1990 09 14	809	1.0+	1.3+	1997 05 08	684	0.3−	0.2−	1998 12 13	684	0.1+	0.4−
1990 09 14	809	1.4+	1.1+	1997 05 08	684	0.2−	0.2−	1998 12 14	684	0.7−	0.8−
1990 09 15	809	1.6−	0.9−	1997 05 08	684	0.2−	0.4−	1998 12 14	684	0.0	0.4−
1990 09 15	809	0.8−	1.1−	1997 06 07	809	(0.8+	3.8+)	2000 02 06	684	0.5+	0.0
1990 09 15	809	0.3−	1.3−	1997 06 07	809	(0.0	3.3+)	2000 02 06	684	0.0	0.5+
1996 01 19	691	0.5−	0.0	1997 06 07	809	(0.4+	4.0+)	2000 02 07	684	0.4−	0.1−
1996 01 19	691	0.2−	0.0	1997 06 08	809	0.7+	0.1+	2000 02 07	684	0.4+	0.1−
1996 01 19	691	0.6−	0.0	1997 06 08	809	1.2+	0.1+	2000 02 08	684	0.4+	0.1+
1997 05 03	809	0.1−	1.5−	1997 06 08	809	0.3+	0.7+	2000 02 08	684	0.2+	0.1−
1997 05 03	809	(0.0	2.5−)	1998 11 15	684	0.1−	0.3+	2000 02 08	684	0.4+	0.1+
1997 05 03	809	(1.2−	2.4−)	1998 11 15	684	0.3+	0.1+	2000 04 02	684	0.3−	0.4−
1997 05 04	809	0.5−	0.0	1998 11 16	684	0.4+	0.1−	2000 04 02	684	0.6+	1.0+
1997 05 04	809	0.8−	0.0	1998 11 16	684	0.0	0.3+	2000 04 03	684	0.5+	0.2+
1997 05 04	809	1.2−	0.7+	1998 11 17	684	0.4+	0.2−	2000 04 03	684	0.1+	0.1+
1997 05 06	684	0.2+	0.5−	1998 11 17	684	0.5−	0.0				

(14527)* 1997 JD₁₂ = 1991 TM₄

Discovered 1997 May 3 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30086)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	157.78676				P		Q
<i>n</i>	0.28588553	ω	149.02948	+0.98396275		−0.16307623	
<i>a</i>	2.2821347	Ω	220.55671	+0.13225919		+0.93887818	
<i>e</i>	0.1169794	<i>i</i>	6.38194	+0.11968633		+0.30317306	
<i>P</i>	3.45	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 10 04	033	0.5+	0.4-	1998 10 11	699	0.2-	0.1-	1998 11 10	704	1.1-	1.3-
1991 10 05	033	0.4+	1.8-	1998 10 11	699	0.5-	0.9+	1998 11 10	704	0.7-	1.0-
1991 10 05	033	0.5+	0.2+	1998 10 11	699	0.4+	0.9+	1998 11 11	704	0.0	0.1-
1991 10 09	033	0.1+	0.1+	1998 10 19	699	0.2-	0.7+	1998 11 11	704	0.4-	0.5+
1991 10 09	033	0.9-	0.2+	1998 10 19	699	1.3+	1.0+	1998 11 11	704	0.4-	0.0
1997 04 11	704	1.1+	0.3+	1998 10 19	699	0.5-	1.5+	1998 11 11	704	0.6-	0.0
1997 04 11	704	1.4-	0.6-	1998 10 26	910	1.1+	0.9+	1998 11 11	704	0.1+	0.3-
1997 05 03	809	1.6-	1.6+	1998 10 26	910	0.9+	0.9+	1998 11 14	699	1.7+	1.3+
1997 05 03	809	1.1+	1.3+	1998 10 26	910	1.0+	0.7+	1998 11 14	699	0.4+	1.5+
1997 05 03	809	1.6+	1.9-	1998 10 28	704	0.1+	0.7-	1998 11 14	699	1.2+	1.1+
1997 05 04	809	0.5-	0.2+	1998 10 28	704	0.2-	0.4-	2000 03 09	704	0.1+	0.9+
1997 05 04	809	0.8-	0.4-	1998 10 28	704	0.1-	1.3-	2000 03 09	704	0.2-	0.8+
1997 05 04	809	0.6-	1.1+	1998 10 28	704	0.3-	0.1-	2000 03 09	704	0.0	0.4+
1997 05 07	704	0.5+	0.3-	1998 10 29	704	0.1+	0.6-	2000 03 09	704	1.0+	1.2+
1997 05 07	704	0.0	0.6+	1998 10 29	704	0.1-	0.0	2000 04 02	699	0.1-	0.4-
1997 05 07	704	0.7+	0.4+	1998 10 29	704	0.8-	0.1+	2000 04 02	699	0.0	0.4-
1997 05 07	704	(3.0-	0.6+)	1998 10 29	704	0.5-	0.2-	2000 04 02	699	1.4-	0.6+
1998 09 29	704	0.9+	1.0-	1998 10 29	704	0.9-	0.1-	2000 04 02	699	0.0	0.5+
1998 09 29	704	1.2+	1.9-	1998 11 10	704	0.4-	0.5-	2000 04 11	608	0.1+	1.9-
1998 09 29	704	(2.6-	0.1-)	1998 11 10	704	0.4-	0.1+	2000 04 11	608	0.1-	1.6-
1998 09 29	704	1.8-	1.1+	1998 11 10	704	1.0-	1.1-	2000 04 11	608	0.1-	1.8-

(14528)* 1997 JN₁₅ = 1993 FO₅

Discovered 1997 May 3 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 30283)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>		214.92336	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27522063	ω	225.27829	+0.82912779	+0.55785897
<i>a</i>	2.3407160	Ω	100.78069	-0.50181710	+0.77150292
<i>e</i>	0.2482055	<i>i</i>	2.13593	-0.24642788	+0.30590294
<i>P</i>	3.58	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1993 03 17	809	1.8-	1.1+	1997 06 08	809	0.5+	0.6+	1998 12 17	704	1.8-	1.0+
1993 03 18	809	1.1+	0.4-	1997 06 08	809	0.8+	1.1+	1998 12 17	704	0.6+	0.3-
1993 03 23	809	0.5+	1.0-	1997 06 08	809	0.3+	0.6+	1998 12 17	704	1.0+	0.5+
1993 03 23	691	0.5+	0.9-	1998 12 15	704	1.1+	0.7-	1998 12 17	704	1.3+	0.5+
1993 03 23	691	0.9-	0.8-	1998 12 15	704	0.5+	1.3-	2000 03 03	704	0.1-	0.4+
1993 03 23	691	0.8-	0.5-	1998 12 15	704	0.0	1.8-	2000 03 03	704	0.1+	0.0
1994 10 05	691	0.3+	0.4-	1998 12 17	704	0.5-	0.4+	2000 03 03	704	0.1+	0.1+
1994 10 05	691	0.3+	0.2-	1998 12 17	704	0.3-	0.5-	2000 03 03	704	0.7+	0.3-
1994 10 05	691	0.0	0.3+	1998 12 17	704	(0.0	2.2+)	2000 03 03	704	0.7+	0.5-
1997 05 03	809	(1.9+	2.1-)	1998 12 17	704	0.4+	1.8+	2000 03 12	704	0.0	0.8+
1997 05 03	809	(1.8+	2.6-)	1998 12 17	704	0.7-	0.1+	2000 03 12	704	0.9+	0.1+
1997 05 03	809	1.4+	2.0-	1998 12 17	704	0.4-	0.4+	2000 03 12	704	0.2+	0.2-
1997 05 04	809	0.1-	0.6-	1998 12 17	704	0.5-	0.3-	2000 03 12	704	0.5+	1.2+
1997 05 04	809	0.6-	0.7-	1998 12 17	704	0.4+	0.1+	2000 03 12	704	1.3+	0.2-
1997 05 04	809	1.4-	0.1-	1998 12 17	704	(0.4-	2.4-)	2000 04 02	699	1.1-	0.1-
1997 06 07	809	0.1+	0.6+	1998 12 17	704	0.9-	1.2-	2000 04 02	699	0.7-	0.1-
1997 06 07	809	0.5-	0.3+	1998 12 17	704	0.9-	0.4+	2000 04 02	699	0.2+	1.0+
1997 06 07	809	0.9-	0.1+	1998 12 17	704	0.2-	0.4+	2000 04 02	699	0.5-	0.2+

(14529)* 1997 NR₂ = 1993 QU₁₀ = 1996 FR₂₂ = 1996 FN₂₃

Discovered 1997 July 6 by G. R. Viscome at Rand Observatory.

Id. G. V. Williams (*MPC* 30673)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>		142.54961	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23133379	ω	240.23571	+0.79995514	-0.59996028
<i>a</i>	2.6281088	Ω	156.62599	+0.55961867	+0.73934538
<i>e</i>	0.1184190	<i>i</i>	1.57851	+0.21656111	+0.30564043
<i>P</i>	4.26	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1993 08 17	010	1.6-	1.5-	1997 08 01	816	0.1+	0.7+	2000 04 01	691	0.2-	0.1+
1993 09 18	010	(0.3-	3.4-)	1997 08 01	292	1.8-	1.1+	2000 04 01	691	0.3-	0.1+
1993 09 18	010	(0.6-	2.9-)	1997 08 01	292	(2.1-	1.2-)	2000 04 01	691	0.1+	1.5-
1993 09 18	010	(0.9+	2.2-)	1997 08 01	292	(3.8-	3.1-)	2000 04 02	691	0.2-	0.1+
1996 03 24	809	(1.3+	2.5+)	1997 08 10	816	0.2+	0.7+	2000 04 02	691	0.0	0.0
1996 03 24	809	(1.6+	3.2+)	1997 08 10	816	0.2+	0.7+	2000 04 02	691	0.1+	0.1-
1996 03 24	809	(1.1+	2.9+)	1997 08 23	684	0.1-	0.3+	2000 04 03	691	0.1+	0.3-
1996 03 27	809	1.8+	0.5+	1997 08 23	684	0.5-	0.1+	2000 04 03	691	0.1+	0.3-
1996 03 27	809	1.1+	0.8-	1997 08 23	684	0.8-	0.3+	2000 04 03	691	0.2+	0.4-
1996 03 27	809	0.7+	0.8-	1997 08 25	684	0.4-	0.4+	2000 04 05	704	0.4+	0.5+
1997 07 06	816	0.6+	0.3+	1997 08 25	684	0.1-	0.3+	2000 04 05	704	0.1+	0.4+
1997 07 06	816	1.6-	0.9+	1997 08 25	684	0.3-	0.4+	2000 04 05	704	0.3+	0.2+
1997 07 06	816	0.6+	0.4-	1998 12 13	816	0.2-	0.4+	2000 04 05	704	0.3-	0.4+
1997 07 06	816	0.1+	0.8+	1998 12 13	816	0.1+	0.5+	2000 04 05	704	0.4+	0.3-
1997 07 08	816	0.2+	0.3+	1998 12 13	816	0.1-	0.5+	2000 04 06	704	1.1-	0.4+
1997 07 08	816	0.4+	0.2+	1998 12 13	816	0.1-	0.4+	2000 04 06	704	0.0	0.4+
1997 07 08	816	0.2-	0.0	1998 12 16	816	0.0	1.2+	2000 04 06	704	0.0	0.5+
1997 07 08	816	0.5-	0.2+	1998 12 16	816	0.4-	1.0+	2000 04 06	704	0.0	0.6+
1997 07 11	816	0.8+	0.4+	1998 12 16	704	0.1+	0.0	2000 04 06	699	0.0	0.4+
1997 07 11	816	0.4+	0.1-	1998 12 16	704	0.5+	0.5-	2000 04 06	704	0.1+	0.7+
1997 07 11	816	0.6+	0.0	1998 12 16	704	0.1-	0.3+	2000 04 06	699	0.1-	0.4+
1997 07 11	816	0.4+	0.2-	1998 12 16	704	0.3-	0.2-	2000 04 06	704	0.7-	0.3+
1997 07 12	816	1.3+	0.3+	1998 12 16	704	0.1+	0.8+	2000 04 06	704	0.1-	0.8+
1997 07 12	816	0.6-	0.2-	1998 12 22	704	0.8+	1.7+	2000 04 06	699	0.1+	0.2+
1997 07 12	816	0.1+	0.5-	1998 12 22	704	1.0+	0.1+	2000 04 06	704	0.0	0.3+
1997 07 12	816	0.4+	0.2+	1998 12 22	704	0.6-	1.2+	2000 04 06	699	0.3-	1.2+
1997 07 26	816	0.2-	0.5+	1998 12 22	704	0.1-	0.2-	2000 04 06	704	0.2-	0.4+
1997 07 26	816	0.2-	0.4+	1998 12 22	704	0.2+	0.1+	2000 04 07	699	0.5-	1.0+
1997 07 26	816	0.0	0.4+	2000 03 10	704	0.1-	0.1+	2000 04 07	699	0.7-	0.3+
1997 07 30	816	0.0	0.6+	2000 03 10	704	0.2-	0.1+	2000 04 07	699	0.7+	0.4+
1997 07 30	816	0.4+	0.0	2000 03 10	704	0.3+	0.4+	2000 04 07	699	0.5-	0.4+
1997 07 30	816	0.1+	0.3+	2000 03 10	704	0.0	0.4+	2000 04 07	704	0.8+	0.3-
1997 07 30	816	0.2-	0.3+	2000 03 30	691	0.2+	0.0	2000 04 07	704	0.4+	1.0-
1997 07 31	292	1.4+	0.8-	2000 03 30	691	0.1+	0.0	2000 04 07	704	0.5-	0.8+
1997 07 31	292	0.2-	0.9-	2000 03 30	691	0.3+	0.0	2000 04 07	704	0.3+	1.3-
1997 07 31	816	0.0	0.2+	2000 03 30	691	0.3-	0.3-	2000 04 07	704	0.2-	0.2+
1997 07 31	816	0.3-	0.0	2000 03 30	691	0.2-	0.3-	2000 04 10	704	0.3+	0.4+
1997 07 31	292	0.9-	0.5-	2000 03 30	691	0.2-	0.3-	2000 04 10	704	0.2+	0.0
1997 07 31	816	0.2+	0.0	2000 04 01	691	0.2-	0.1-	2000 04 10	704	0.1-	0.6-
1997 07 31	816	0.2-	0.5+	2000 04 01	691	0.1-	0.2-	2000 04 10	704	0.1-	1.0+
1997 08 01	816	0.2+	0.5+	2000 04 01	691	0.2-	0.2-				

(14530)* 1997 PR = 1986 QP₅ = 1986 RW₁₇ = 1986 TR₁₈

Discovered 1997 Aug. 1 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 30676)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>		269.79446	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26731897	ω	333.85496	+0.40884057	+0.90761313
<i>a</i>	2.3866177	Ω	320.08023	-0.80910422	+0.31217077
<i>e</i>	0.2103765	<i>i</i>	8.54320	-0.42213713	+0.28069168
<i>P</i>	3.69	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in

1997 08 10	358	0.5−	1.1+	1997 10 29	426	0.1+	0.1−	2000 03 09	704	0.2+	0.3−
1997 08 10	358	1.3+	1.6+	1997 10 29	426	0.2+	0.4+	2000 03 12	699	0.8−	1.3+
1997 08 10	358	(2.9+	1.1+)	1997 10 29	426	0.3+	0.4+	2000 03 12	699	0.5−	0.8+
1997 08 13	358	1.1+	0.6−	1997 11 01	426	0.3+	0.4−	2000 03 12	699	0.6−	0.6+
1997 08 13	358	1.0+	0.6−	1997 11 01	426	0.2+	0.1−	2000 03 12	699	0.6−	0.4+
1997 08 14	426	0.8+	0.2+	1997 11 01	426	0.4+	0.2−	2000 03 13	704	0.3−	0.9−
1997 08 14	426	0.7+	0.3+	1998 12 11	426	0.2+	1.3+	2000 03 13	704	0.6+	0.3+
1997 08 14	426	0.7+	0.3+	1998 12 11	426	1.1−	0.4+	2000 03 13	704	0.1−	0.2+
1997 08 15	426	1.0+	0.8−	1998 12 11	426	1.1−	0.6−	2000 03 13	704	1.0−	0.7−
1997 08 15	426	1.2+	0.1−	1998 12 14	704	1.3+	0.0	2000 04 07	704	0.3+	0.4+
1997 08 15	426	1.0+	0.1+	1998 12 14	704	0.5+	0.9−	2000 04 07	704	0.0	0.3+
1997 08 22	426	0.3−	0.7−	1998 12 14	704	1.4+	1.7−	2000 04 07	704	0.5+	0.5+
1997 08 22	426	0.1−	0.5−	1998 12 14	704	(1.4+	2.3−)	2000 04 07	704	0.3+	0.1+
1997 08 22	426	0.4−	0.6−	1998 12 14	704	(0.7+	3.3−)	2000 04 07	704	0.4+	0.3+
1997 09 03	426	1.0−	0.0	1998 12 15	426	0.5−	0.1−	2000 04 10	608	0.2+	0.4−
1997 09 03	426	0.7−	0.0	1998 12 15	426	0.1−	0.4−	2000 04 10	608	0.0	0.4−
1997 09 03	426	0.8−	0.0	1998 12 15	426	0.5+	0.0	2000 04 10	608	0.1+	0.2−

(14531)* 1997 PM₂ = 1993 XW₁

Discovered 1997 Aug. 7 by G. R. Viscome at Rand Observatory.

Id. G. V. Williams (*MPC* 30677)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	115.70362		(2000.0)	P	Q
n	0.20643629	ω	119.03060	+0.43287964	−0.89906610
a	2.8353849	Ω	305.17261	+0.79667510	+0.41557299
e	0.1512404	i	4.59879	+0.42181038	+0.13776512
P	4.77	H	13.8	G 0.15	U 1

Residuals in seconds of arc

1993 12 05	408	0.3+	0.2+	1997 09 05	816	0.3+	0.5−	1998 12 17	704	0.6+	0.0
1993 12 05	408	(0.2+	2.6+)	1997 09 05	910	1.4+	0.1−	1999 01 16	704	(3.4−	0.5−)
1993 12 05	408	0.2+	0.6+	1997 09 05	910	1.3+	0.1−	1999 01 16	704	0.1−	0.6+
1993 12 18	408	0.8−	1.8+	1997 09 05	910	1.2+	0.1−	1999 01 16	704	0.6−	1.2+
1993 12 18	408	(1.3−	2.1+)	1997 09 09	816	0.0	0.1−	2000 03 14	704	0.7+	0.5+
1997 08 07	816	0.0	0.1+	1997 09 09	816	0.1−	0.0	2000 03 14	704	0.0	0.6−
1997 08 07	816	0.4−	0.1−	1997 09 09	816	0.2−	0.2+	2000 03 14	704	0.1−	0.0
1997 08 07	816	0.5−	0.5+	1997 09 10	816	0.5−	0.2+	2000 03 14	704	0.1−	1.0+
1997 08 07	816	0.3−	0.2+	1997 09 10	816	0.1−	0.3+	2000 03 30	704	0.1+	1.0+
1997 08 09	658	0.9−	0.2+	1997 09 10	816	0.3−	0.1−	2000 03 30	704	0.0	0.8+
1997 08 09	658	0.6−	0.1+	1998 12 14	704	0.1−	0.0	2000 03 30	704	0.2+	0.2−
1997 08 09	658	0.6−	0.0	1998 12 14	704	0.3+	0.4−	2000 03 30	704	0.0	0.1−
1997 08 10	816	0.1−	0.2+	1998 12 14	704	0.3−	0.7−	2000 04 07	704	0.1+	0.4−
1997 08 10	816	0.0	0.4+	1998 12 14	704	0.7+	1.1−	2000 04 07	704	0.1+	0.0
1997 08 10	816	0.1−	0.3+	1998 12 14	704	(0.1+	2.0−)	2000 04 07	704	0.4−	0.6−
1997 09 02	816	0.1−	0.1+	1998 12 17	704	0.3+	0.1−	2000 04 07	704	0.0	0.4+
1997 09 02	816	0.2−	0.3+	1998 12 17	704	0.2−	0.2+	2000 04 07	704	0.4+	0.1+
1997 09 05	816	0.0	0.3−	1998 12 17	704	(0.5+	2.4+)				
1997 09 05	816	0.1−	0.2−	1998 12 17	704	0.9−	0.9−				

(14532)* 1997 QM

Discovered 1997 Aug. 25 by Z. Moravec at Kletř.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	340.14904		(2000.0)	P	Q		
n	0.24394911	ω	57.95223	−0.67115218	+0.73980176		
a	2.5367046	Ω	169.48002	−0.73703063	−0.65903284		
e	0.0119795	i	15.05180	−0.07962795	−0.13553254		
P	4.04	H	14.0	G	0.15	U	1

Residuals in seconds of arc

1993 09 14	809	1.2+	1.6+	1997 09 23	691	0.7−	0.2+	1999 01 18	046	0.8+	0.7+
1993 09 14	809	0.4−	0.9+	1997 09 23	691	0.7−	0.1+	1999 01 18	046	0.5+	0.4+
1993 09 14	809	1.3−	1.1+	1997 09 23	691	0.6−	0.2+	1999 01 20	046	0.6+	0.9+
1997 08 25	046	0.7−	0.3−	1997 09 25	046	0.3−	0.0	1999 01 20	046	0.6+	1.2+
1997 08 25	046	0.1−	1.1−	1997 09 25	046	0.7−	0.1+	1999 01 20	046	0.8+	0.9+
1997 08 25	046	0.5−	0.5−	1997 09 25	046	0.2−	0.0	1999 01 22	704	0.6+	0.4+

1997 08 25	046	0.6−	0.3−	1997 09 25	610	1.1+	1.4+	1999 01 22	704	0.2+	0.3+
1997 08 25	046	0.2+	0.3−	1997 09 25	610	0.7+	1.4+	1999 01 22	704	(0.6+	3.5+)
1997 08 25	046	0.1−	0.1−	1997 09 25	610	0.5+	1.3+	1999 01 22	704	0.8−	0.0
1997 08 25	046	0.2−	0.5−	1997 09 26	610	(0.9+	2.2+)	1999 01 22	704	0.1−	0.1−
1997 08 27	046	0.2−	0.4−	1997 09 26	610	0.6+	1.6+	2000 03 09	704	1.2−	1.4+
1997 08 27	046	0.2+	0.4−	1997 09 26	610	0.2+	1.2+	2000 03 09	704	0.3+	0.2+
1997 08 27	046	0.0	0.7−	1997 09 27	610	0.5+	0.6+	2000 03 09	704	0.1−	0.3−
1997 08 28	046	0.1−	0.1−	1997 09 27	610	0.9+	0.9+	2000 03 09	704	0.0	0.6+
1997 08 28	046	0.1−	0.3−	1997 09 27	610	1.2+	1.1+	2000 03 09	704	0.5+	0.2+
1997 08 28	046	0.2−	0.4−	1997 10 06	046	0.2−	0.4−	2000 03 15	699	0.3−	0.3+
1997 08 31	046	0.2−	0.2+	1997 10 06	046	0.1+	0.3−	2000 03 15	699	1.1−	0.6+
1997 08 31	046	0.1−	0.3+	1997 10 06	046	0.0	0.4−	2000 03 15	699	0.5−	0.5−
1997 08 31	046	0.0	0.2+	1997 10 09	046	0.3+	0.2−	2000 03 15	699	0.0	0.3+
1997 09 01	046	0.2−	0.1+	1997 10 09	046	0.0	0.4−	2000 04 12	704	1.0+	0.6+
1997 09 01	046	0.1−	0.1−	1997 10 09	046	0.4+	0.8−	2000 04 12	704	0.1−	0.4+
1997 09 01	046	0.1+	0.1+	1998 12 18	046	0.5−	0.3+	2000 04 12	704	0.5+	0.6+
1997 09 11	046	0.2+	0.2+	1998 12 18	046	0.7−	0.2+	2000 04 12	704	0.4−	0.1−
1997 09 11	046	0.3+	0.2+	1998 12 18	046	1.3−	0.1+	2000 04 13	704	0.4+	0.6+
1997 09 11	046	0.4+	0.0	1998 12 22	046	0.4−	0.4−	2000 04 13	704	0.0	0.9+
1997 09 22	046	0.5−	0.4+	1998 12 22	046	0.6−	0.0	2000 04 13	704	0.9+	0.2−
1997 09 23	046	0.6−	0.1−	1998 12 22	046	0.3−	0.1−	2000 04 13	704	0.1−	0.7+
1997 09 23	046	0.9−	0.2+	1999 01 18	046	0.9+	0.7+	2000 04 13	704	0.9+	1.7+

(14533)* 1997 QY = 1989 TX₁₆

Discovered 1997 Aug. 24 by P. Antonini at Bedoin.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	212.05774		(2000.0)	P	Q
n	0.23901558	ω	146.36786	+0.86463668	+0.50230052
a	2.5714924	Ω	183.52390	−0.48905824	+0.83701512
e	0.1859140	i	9.24951	−0.11500197	+0.21702506
P	4.12	H	14.1	G 0.15	U 1

Residuals in seconds of arc

1984 05 30	413	1.4−	0.1+	1997 09 03	132	0.7+	0.8+	2000 03 03	704	0.3−	0.1+
1984 05 30	413	1.1+	0.4−	1997 09 18	132	0.3−	0.3+	2000 03 03	704	0.4−	0.7+
1988 02 23	413	0.5−	0.9+	1997 09 19	132	2.1+	1.4−	2000 03 03	704	0.4+	0.1+
1988 02 23	413	1.2−	0.7−	1997 09 30	132	0.4+	1.0−	2000 03 11	704	0.2−	0.4+
1989 10 07	809	(0.0	3.7+)	1997 09 30	132	0.4+	0.4−	2000 03 11	704	0.2−	0.1+
1989 10 07	809	0.8+	1.7+	1997 10 01	124	(0.3−	3.2+)	2000 03 11	704	0.2+	0.1+
1989 10 07	809	1.2+	0.3−	1997 10 01	124	0.6+	0.6+	2000 03 11	704	0.3−	0.1−
1989 11 22	413	0.2+	1.0+	1997 12 03	910	1.3−	0.1−	2000 03 11	704	0.1+	0.2−
1989 11 22	413	2.3−	0.6+	1997 12 03	910	1.5−	0.4−	2000 04 02	699	0.5+	0.3−
1996 05 07	675	0.1+	0.3−	1997 12 03	910	1.7−	0.3+	2000 04 02	699	1.1+	0.9+
1996 05 07	675	0.0	0.7−	1998 12 15	704	1.0−	0.6−	2000 04 02	699	0.3+	0.2+
1997 07 13	691	1.4−	0.2+	1998 12 15	704	(1.8+	0.0)	2000 04 02	699	0.0	0.3+
1997 07 13	691	0.5−	0.5+	1998 12 15	704	0.3+	0.6+	2000 04 02	691	0.3−	0.5−
1997 07 13	691	0.4−	0.3+	1998 12 15	704	0.1−	0.2−	2000 04 02	691	0.2−	0.5−
1997 08 24	132	0.9−	0.6+	2000 02 08	704	0.3+	0.7+	2000 04 02	691	0.2−	0.3−
1997 08 24	132	0.4−	0.8+	2000 02 08	704	0.1−	0.5−	2000 04 05	704	0.7+	0.5+
1997 08 24	132	0.4−	1.3+	2000 02 08	704	0.3+	0.6+	2000 04 05	704	0.5+	0.2+
1997 08 29	132	0.7−	0.1−	2000 02 08	704	0.3−	0.6+	2000 04 05	704	0.6+	0.7−
1997 08 29	132	0.9−	2.1−	2000 02 08	704	0.2+	0.4−	2000 04 05	704	1.3−	1.0−
1997 09 03	132	(3.3−	0.5+)	2000 02 27	703	0.9+	1.4+	2000 04 05	704	0.6+	0.1−
1997 09 03	132	0.7+	0.1−	2000 02 27	703	0.7−	0.2−	2000 04 06	704	0.1+	1.3+
1997 09 03	124	1.7+	0.6−	2000 02 27	703	0.6−	0.5+	2000 04 06	704	0.3+	0.3+
1997 09 03	124	1.3+	1.5+	2000 02 27	703	0.8+	0.4+	2000 04 06	704	0.4+	0.3+

2000 APR. 18

M.P.C. 39857

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	141.29843		(2000.0)	P	Q
<i>n</i>	0.20938860	ω	16.08796	+0.68281140	-0.72928042
<i>a</i>	2.8086699	Ω	30.88898	+0.66055140	+0.59062243
<i>e</i>	0.1283159	<i>i</i>	4.89456	+0.31215450	+0.34542033
<i>P</i>	4.71	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1988 11 02	399	1.2+	1.5-	1997 12 03	910	1.0-	1.1-	1999 02 13	704	0.2-	0.9-
1988 11 02	399	1.7-	1.1-	1997 12 03	910	1.7-	1.5-	2000 03 14	703	0.9+	0.0
1988 11 02	399	1.6+	0.2-	1998 12 28	385	0.4-	0.8-	2000 03 14	703	0.4+	0.6-
1988 11 03	327	1.3+	1.8+	1998 12 28	385	0.1+	0.7-	2000 03 14	703	0.7-	0.8+
1988 11 08	399	(4.2+ 2.4+)		1999 01 09	886	0.5+	1.4+	2000 03 14	703	0.5-	0.2+
1988 11 08	399	(3.1+ 0.6-)		1999 01 09	886	0.7+	0.8+	2000 04 04	699	0.1-	0.0
1988 11 08	399	(1.5+ 3.4+)		1999 01 10	699	0.3-	0.4-	2000 04 04	699	0.2-	0.3-
1988 11 11	399	0.0	0.3-	1999 01 10	699	0.0	0.5-	2000 04 04	699	0.3-	0.1-
1988 11 11	399	1.1-	0.6-	1999 01 10	699	0.1+	0.1+	2000 04 04	699	0.1-	0.5+
1988 11 11	399	0.8+	1.2-	1999 01 13	888	0.0	0.6+	2000 04 05	704	0.5+	0.0
1988 11 11	399	0.6-	0.8-	1999 01 13	888	0.5-	0.7+	2000 04 05	704	0.0	0.1-
1988 11 14	399	(4.8+ 0.2+)		1999 01 19	704	0.4-	1.0+	2000 04 05	704	0.3+	0.5-
1988 11 14	399	(3.3+ 3.7+)		1999 01 19	704	(2.6- 2.3+)		2000 04 05	704	0.1-	0.2+
1988 11 14	399	(4.8+ 1.9+)		1999 01 19	704	1.6-	0.3+	2000 04 05	704	0.1-	0.3+
1997 08 27	905	0.4+	0.1+	1999 01 19	704	1.6-	1.1+	2000 04 06	704	0.2+	0.0
1997 08 27	905	0.2-	0.6+	1999 02 09	888	0.8+	0.2+	2000 04 06	704	0.6+	0.1+
1997 08 28	905	0.3-	0.0	1999 02 09	888	0.1+	0.1+	2000 04 06	704	0.3+	0.4-
1997 08 28	905	1.0+	1.6+	1999 02 10	704	0.8+	0.6-	2000 04 06	704	0.6-	0.4-
1997 09 04	385	0.2-	0.7+	1999 02 10	704	0.7+	0.4-	2000 04 07	704	0.5-	0.3-
1997 09 04	385	0.4-	1.2+	1999 02 10	704	1.0+	0.2-	2000 04 07	704	0.6-	0.2-
1997 09 05	385	0.1-	1.5+	1999 02 10	704	0.5+	0.1+	2000 04 07	704	0.0	0.3-
1997 09 05	385	0.2+	0.4+	1999 02 13	704	1.1+	1.4+	2000 04 07	704	0.2+	0.1-
1997 10 26	385	0.1-	0.3+	1999 02 13	704	0.5-	2.0+	2000 04 07	704	1.0-	0.3+
1997 10 26	385	0.3+	0.1+	1999 02 13	704	1.9+	0.3+				
1997 12 03	910	1.3-	1.3-	1999 02 13	704	1.1-	1.4-				

(14535)* 1997 RF = 1988 DL₄ = 1998 WC

Discovered 1997 Sept. 1 by H. Abe at Yatsuka.

Id. G. V. Williams (*MPC* 33503)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	53.34061		(2000.0)	P	Q
<i>n</i>	0.17022815	ω	297.31740	-0.32318630	-0.94419595
<i>a</i>	3.2243966	Ω	170.82780	+0.94603614	-0.32404356
<i>e</i>	0.1924463	<i>i</i>	23.51404	+0.02379580	+0.05907432
<i>P</i>	5.79	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 0

Residuals in seconds of arc

1988 02 23	809	0.3-	0.4+	2000 01 11	699	0.4+	0.8-	2000 03 12	704	0.3+	0.2-
1988 02 23	809	0.6+	0.2+	2000 01 11	699	0.3+	0.4-	2000 03 12	704	0.8+	0.6-
1988 02 23	809	0.3-	0.1-	2000 02 08	704	0.5-	0.0	2000 03 12	704	(1.6- 4.0+)	
1997 09 01	367	0.6+	0.0	2000 02 08	704	0.2+	0.5+	2000 03 13	704	0.6+	0.7+
1997 09 01	367	0.7+	0.6-	2000 02 08	704	1.0+	0.3-	2000 03 13	704	0.2+	0.2+
1997 09 02	367	0.4+	0.6+	2000 02 08	704	0.4+	0.4+	2000 03 13	704	0.2+	0.1+
1997 09 02	367	0.7+	0.2+	2000 02 11	704	0.4+	0.5+	2000 03 13	704	0.1-	0.2+
1997 09 09	367	0.2-	0.1-	2000 02 11	704	0.2+	0.3+	2000 03 13	704	0.3+	0.1+
1997 09 09	367	1.0-	0.1-	2000 02 11	704	0.5+	0.3+	2000 03 29	704	0.9-	0.4-
1997 09 11	402	0.0	0.4+	2000 02 11	704	0.2-	1.7+	2000 03 29	704	1.1-	0.4-
1997 09 11	402	0.5-	0.1+	2000 03 02	849	1.5-	0.4+	2000 03 29	704	0.5-	0.9-
1997 09 11	402	0.5-	0.4+	2000 03 02	849	(2.9- 1.8-)		2000 03 29	704	0.7-	0.9-
1998 11 16	703	0.7+	0.3+	2000 03 06	608	0.1+	0.4-	2000 03 29	704	0.5-	0.8-
1998 11 16	703	1.0+	0.4+	2000 03 06	608	0.1+	0.5-	2000 04 05	704	0.0	0.3+
1998 11 16	703	0.4+	0.2+	2000 03 06	608	0.1-	0.2-	2000 04 05	704	0.2-	0.8+
1998 11 17	703	0.0	0.6+	2000 03 08	704	0.4+	0.2+	2000 04 05	704	0.2-	0.2+
1998 11 17	703	0.4+	0.2+	2000 03 08	704	0.7+	0.8-	2000 04 05	704	0.2+	0.5+
1998 12 19	704	0.1-	0.2-	2000 03 08	704	0.0	0.4+	2000 04 05	704	0.2+	0.5+
1998 12 19	703	0.5+	0.7-	2000 03 11	699	1.0-	0.4+	2000 04 07	608	0.4+	1.3-
1998 12 19	703	1.4-	0.4-	2000 03 11	699	0.2-	0.1-	2000 04 07	608	0.5+	0.5-
1998 12 19	704	0.1+	0.3+	2000 03 11	699	0.3-	0.2+	2000 04 07	608	1.2+	0.2-

1998 12 19	703	0.7-	0.5-	2000 03 11	699	0.6-	0.4-	2000 04 08	704	0.6+	0.5-
1998 12 19	704	0.6-	0.2-	2000 03 12	703	0.4-	0.4+	2000 04 08	704	0.0	0.1-
1998 12 19	704	0.1-	0.7-	2000 03 12	703	0.8-	0.9+	2000 04 08	704	0.1+	0.3+
1998 12 19	704	0.6-	0.2+	2000 03 12	703	0.1-	0.0	2000 04 08	704	0.1+	0.0
2000 01 11	699	0.3-	1.1+	2000 03 12	703	0.1+	0.2-	2000 04 08	704	0.1-	0.2+

(14536)* 1997 RY₂ = 1996 HL₁₁

Discovered 1997 Sept. 3 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 30878)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	188.63420		(2000.0)	P	Q
<i>n</i>	0.21458585	ω	140.51548	+0.94706655	+0.32035454
<i>a</i>	2.7631343	Ω	200.82892	-0.30742367	+0.88619667
<i>e</i>	0.1036341	<i>i</i>	3.37391	-0.09249667	+0.33470648
<i>P</i>	4.59	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1996 04 17	809	0.1+	1.6+	1998 11 20	426	0.7+	0.2+	2000 02 29	704	0.7+	0.1-
1996 04 17	809	0.7+	1.4+	1998 11 24	426	0.7+	0.4+	2000 03 03	704	0.2+	0.0
1996 04 17	809	(0.2- 2.0+)		1998 11 24	426	0.3-	0.4-	2000 03 03	704	0.6+	0.3+
1996 04 18	809	(0.3+ 2.7+)		1998 12 16	704	0.3-	1.1+	2000 03 03	704	0.1+	0.3+
1996 04 18	809	(1.4+ 2.4+)		1998 12 16	704	0.0	0.2-	2000 03 03	704	0.3-	0.5+
1996 04 18	809	(0.2- 2.6+)		1998 12 16	704	(2.5+ 2.1+)		2000 03 03	704	0.6+	0.8+
1997 09 03	426	0.5-	1.1+	1998 12 16	704	0.2+	0.1-	2000 03 11	704	0.4+	0.8-
1997 09 03	426	0.1+	0.9+	1998 12 22	704	1.1+	0.5+	2000 03 11	704	0.0	0.2+
1997 09 03	426	0.0	1.2+	1998 12 22	704	(2.6+ 1.3+)		2000 03 11	704	0.2-	0.5+
1997 09 05	426	0.3-	0.2+	1998 12 22	704	(0.2+ 2.5-)		2000 03 11	704	0.4-	0.9+
1997 09 05	426	0.1-	0.5-	1998 12 22	704	(0.8+ 2.7+)		2000 03 11	704	0.3+	0.4+
1997 09 29	327	0.1-	0.9+	2000 02 27	703	0.9-	0.6-	2000 04 05	704	0.1-	0.8+
1997 09 29	327	0.5-	1.2+	2000 02 27	703	(0.9- 2.7-)		2000 04 05	704	0.9-	0.2+
1997 09 29	327	0.5-	0.5+	2000 02 27	703	(2.7- 1.4-)		2000 04 05	704	0.3-	1.0+
1998 11 19	426	0.8-	1.5+	2000 02 27	703	0.4+	1.5-	2000 04 05	704	0.0	0.9+
1998 11 20	426	0.7-	0.3+	2000 02 29	704	0.7+	0.4-				
1998 11 20	426	0.5-	0.8+	2000 02 29	704	0.3+	0.1+				

(14537)* 1997 RL₇ = 1993 SL₅

Discovered 1997 Sept. 10 at Kleť.

Id. A. Gnädig (*MPC* 30987), K. Ichikawa (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	246.19369		(2000.0)	P	Q
<i>n</i>	0.24358747	ω	304.22318	+0.54173128	+0.84053224
<i>a</i>	2.5392147	Ω	358.54162	-0.67807146	+0.43297775
<i>e</i>	0.1917481	<i>i</i>	13.00165	-0.49673567	+0.32563143
<i>P</i>	4.05	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1993 09 19	010	(0.6- 2.3+)		1997 10 09	046	0.1+	0.8-	2000 03 03	704	0.3-	0.3-
1993 09 19	010	1.2+	1.6+	1997 10 09	046	0.3-	0.2-	2000 03 11	704	0.3+	0.1-
1993 09 20	010	1.2-	0.2+	1997 10 09	046	0.3-	0.3-	2000 03 11	699	0.4-	0.5+
1993 09 20	010	0.4-	0.6+	1997 10 22	046	0.2-	0.2+	2000 03 11	704	0.1-	0.5+
1993 09 20	010	1.3-	0.1-	1997 10 22	046	0.4-	0.7+	2000 03 11	704	0.5+	0.2+
1997 09 10	046	0.3+	0.2-	1997 10 22	046	0.2-	0.6+	2000 03 11	699	0.0	0.6+
1997 09 10	046	0.4+	0.2+	1997 10 23	046	0.3-	0.4+	2000 03 11	704	0.1+	0.4+
1997 09 10	046	0.3+	0.2-	1997 10 23	046	0.5-	0.5+	2000 03 11	699	0.3-	0.6+
1997 09 10	046	0.1+	0.0	1997 10 23	046	0.4-	0.4+	2000 03 11	704	0.1-	0.2+
1997 09 11	046	0.3-	0.3+	1998 12 14	704	0.4-	1.7-	2000 03 11	699	0.3-	0.5+
1997 09 11	046	0.4-	0.3+	1998 12 14	704	0.9-	0.7-	2000 04 02	699	0.1-	1.2+
1997 09 11	046	0.2-	0.5+	1998 12 14	704	0.8+	1.1+	2000 04 02	699	0.3-	0.4-
1997 09 11	046	0.3-	0.5+	1998 12 14	704	1.3+	0.4+	2000 04 02	699	0.3-	0.2-
1997 09 12	046	0.2-	0.4+	1998 12 14	704	(1.9- 3.4+)		2000 04 02	699	0.5+	0.4-
1997 09 12	046	0.1+	0.0	1998 12 18	046	0.0	0.3+	2000 04 05	704	1.6+	0.9+
1997 09 12	046	0.2-	0.6+	1998 12 18	046	0.1-	0.3+	2000 04 05	704	0.7+	1.5+
1997 09 20	046	0.3-	0.7+	1998 12 18	046	0.0	0.1-	2000 04 05	704	0.6+	0.2+
1997 09 20	046	0.6-	0.4+	1998 12 22	046	0.7-	0.7+	2000 04 05	704	0.8+	0.2+
1997 09 20	046	0.4-	0.5+	1998 12 22	046	0.3+	1.0+	2000 04 05	704	0.1-	0.4+

1997 09 23	046	0.4−	0.5+	1998 12 22	046	0.1−	0.6+	2000 04 05	704	0.2−	0.1+
1997 09 23	046	0.6−	0.3+	2000 03 02	703	0.3−	0.2+	2000 04 05	704	1.0+	0.1−
1997 09 23	046	0.5−	0.6+	2000 03 02	703	0.1−	0.7+	2000 04 05	704	0.9+	0.2+
1997 10 05	046	0.4+	0.3−	2000 03 02	703	0.0	1.3−	2000 04 05	704	0.8−	0.4+
1997 10 05	046	0.0	0.1−	2000 03 02	703	0.8−	1.0+	2000 04 06	704	0.7+	0.4+
1997 10 05	046	0.1+	0.2+	2000 03 03	704	0.6+	0.2−	2000 04 06	704	0.9+	0.1+
1997 10 06	046	0.2−	0.2+	2000 03 03	704	0.8+	0.8+	2000 04 06	704	0.9+	0.4+
1997 10 06	046	0.2+	0.2+	2000 03 03	704	0.8+	0.6+	2000 04 06	704	0.3+	0.6+
1997 10 06	046	0.2−	0.4+	2000 03 03	704	0.3+	0.1+	2000 04 06	704	0.2+	0.5+

(14538)* 1997 RR₈ = 1998 XQ₈₄

Discovered 1997 Sept. 12 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 33699)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		261.62649		(2000.0)		P		Q	
<i>n</i>		0.19150255		ω	70.16625	−0.11352853		+0.99269772	
<i>a</i>		2.9809385		Ω	193.50948	−0.96432711		−0.11997589	
<i>e</i>		0.0691114		<i>i</i>	10.05194	−0.23913281		+0.01253067	
<i>P</i>		5.15		<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 10 03	691	0.3+	0.5+	1997 10 19	327	0.1+	0.4−	2000 02 12	704	0.3−	1.4+
1992 10 03	691	0.2+	0.2+	1997 10 19	327	0.1−	0.4−	2000 02 12	704	0.3−	0.0
1992 10 03	691	0.8−	0.8+	1997 10 19	327	0.3+	0.3+	2000 02 12	704	0.1−	0.4−
1997 09 04	327	0.2+	0.0	1998 12 15	704	0.1−	1.3−	2000 02 13	704	0.0	0.0
1997 09 04	327	0.4−	0.4+	1998 12 15	704	0.3−	0.4−	2000 02 13	704	0.5+	0.3−
1997 09 04	327	0.3−	0.0	1998 12 15	704	0.8+	0.3+	2000 02 13	704	0.3+	0.9+
1997 09 12	327	0.2−	0.4+	1998 12 15	704	1.1−	1.3+	2000 03 08	704	1.3+	1.4−
1997 09 12	327	0.4−	0.3+	1998 12 15	704	1.0+	1.1+	2000 03 08	704	1.1+	0.5−
1997 09 12	327	0.0	0.4+	1998 12 22	704	1.1−	0.3−	2000 03 08	704	1.2+	0.5−
1997 09 13	327	0.4−	0.1+	1998 12 22	704	1.1+	1.7−	2000 03 08	704	0.6+	0.4−
1997 09 13	327	0.1−	0.2+	1998 12 22	704	0.2−	0.1−	2000 03 13	704	1.3−	0.2−
1997 09 13	327	0.3−	0.1+	1998 12 22	704	0.4−	0.3−	2000 03 13	704	0.3−	0.6−
1997 09 13	327	0.5−	0.1+	2000 02 08	704	0.9−	0.2+	2000 03 13	704	0.0	0.7+
1997 09 30	327	0.4+	0.1−	2000 02 08	704	0.0	0.1−	2000 03 13	704	0.5−	0.6−
1997 09 30	327	0.6+	0.2−	2000 02 08	704	0.3−	0.9+	2000 04 05	704	0.0	0.5+
1997 09 30	327	0.3+	0.3+	2000 02 08	704	0.5+	1.0+	2000 04 05	704	0.0	0.2−
1997 10 10	327	0.2+	0.3−	2000 02 08	704	0.4−	0.4−	2000 04 05	704	0.1+	0.6+
1997 10 10	327	0.3+	0.0	2000 02 12	704	0.2−	0.5+	2000 04 05	704	0.4−	0.4+
1997 10 10	327	0.0	0.3−	2000 02 12	704	0.0	0.9+	2000 04 05	704	0.0	0.2+

(14539)* 1997 RU₉ = 2028 T-1 = 1998 XE₅₈

Discovered 1997 Sept. 10 by T. Pauwels at Uccle.

Id. A. Doppler (*MPC* 33700)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		355.25973		(2000.0)		P		Q	
<i>n</i>		0.24002130		ω	30.49484	−0.87371581		+0.48643341	
<i>a</i>		2.5643041		Ω	178.60785	−0.45986471		−0.82478164	
<i>e</i>		0.1463023		<i>i</i>	4.23069	−0.15857214		−0.28830154	
<i>P</i>		4.11		<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	1.9+	2.4−	1997 09 25	012	0.8+	0.3+	2000 03 04	703	0.2+	0.4+
1971 03 25	675	0.2−	0.2−	1997 09 25	012	0.8−	0.3−	2000 03 14	704	1.0−	0.0
1971 03 25	675	0.9−	0.3−	1998 12 15	704	0.3−	0.1−	2000 03 14	704	0.2+	0.1+
1971 03 26	675	1.2−	1.1−	1998 12 15	704	0.4−	1.8+	2000 03 14	704	0.2+	0.6−
1971 03 27	675	1.2−	0.5−	1998 12 15	704	(2.9−	0.5+)	2000 03 14	704	0.4+	0.1+
1997 09 10	012	0.6−	0.4+	1998 12 16	704	0.8−	0.1+	2000 03 14	704	1.1+	0.8+
1997 09 11	012	0.3−	0.3−	1998 12 16	704	0.5+	0.4−	2000 04 07	704	0.3−	0.3+
1997 09 11	012	0.1−	0.2−	1998 12 16	704	0.3−	0.9+	2000 04 07	704	1.0+	0.8+
1997 09 13	012	0.7+	0.1+	1998 12 16	704	1.3+	1.2+	2000 04 07	704	0.3+	1.1+
1997 09 13	012	0.2−	0.0	2000 03 04	703	0.2+	0.1+	2000 04 07	704	0.3+	1.9+
1997 09 13	012	0.9+	0.0	2000 03 04	703	0.4−	0.1+				
1997 09 25	012	0.4−	0.4−	2000 03 04	703	0.6−	1.1+				

(14540)* 1997 RJ₁₀ = 3231 T-3

Discovered 1997 Sept. 13 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 30771)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		121.93539		(2000.0)		P		Q	
<i>n</i>		0.19541242		ω	249.44238	+0.52001087		−0.85413294	
<i>a</i>		2.9410423		Ω	169.21698	+0.79650708		+0.48204131	
<i>e</i>		0.0364821		<i>i</i>	2.06873	+0.30848853		+0.19517450	
<i>P</i>		5.04		<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 10 07	675	0.1−	1.3−	1998 12 15	704	0.8−	0.2+	2000 03 11	704	0.3−	0.7+
1977 10 11	675	1.1−	0.9+	1998 12 15	704	0.2−	0.1−	2000 03 11	704	0.2+	0.9+
1977 10 11	675	1.0−	0.1+	1998 12 15	704	0.5−	0.5+	2000 03 11	704	0.0	1.8+
1977 10 12	675	0.9+	0.3+	1998 12 15	704	1.0+	0.1−	2000 04 02	699	0.3−	0.3+
1977 10 12	675	0.8+	0.3−	1998 12 15	704	0.2−	0.7−	2000 04 02	699	0.3−	0.2+
1977 10 16	675	1.2+	0.3+	1998 12 22	704	1.3−	1.0−	2000 04 02	699	0.0	0.1+
1977 10 16	675	0.4+	0.4−	1998 12 22	704	0.1+	0.3+	2000 04 02	699	0.8−	0.3+
1977 10 17	675	0.0	0.3+	1998 12 22	704	0.2−	0.3+	2000 04 04	704	0.4−	0.2−
1977 10 17	675	0.2−	0.6−	1998 12 22	704	0.1−	0.7−	2000 04 04	704	0.1+	0.3−
1977 10 21	675	0.7−	1.2−	1999 01 05	716	0.7−	0.3+	2000 04 04	704	0.0	0.9−
1977 10 21	675	0.7+	0.8−	1999 01 06	716	0.2−	0.7−	2000 04 04	704	0.1+	0.0
1977 10 22	675	(2.7+	2.9−)	1999 01 06	716	0.7−	0.2+	2000 04 04	704	0.2+	0.4+
1977 10 22	675	(2.9+	2.5−)	1999 01 20	704	0.7−	0.1−	2000 04 05	704	0.0	0.0
1997 09 13	327	0.3−	0.2+	1999 01 20	704	0.2−	1.2+	2000 04 05	704	0.1+	0.2−
1997 09 13	327	0.1+	0.3+	1999 01 20	704	1.0+	0.2+	2000 04 05	704	0.2+	0.1−
1997 09 13	327	0.1+	0.5+	1999 01 20	704	0.2−	0.3+	2000 04 05	704	0.2+	0.1−
1997 09 13	327	0.0	0.3+	1999 01 20	704	0.6−	0.5+	2000 04 05	704	0.2+	0.0
1997 09 26	327	0.4−	0.4+	2000 03 01	703	0.3+	0.2+	2000 04 06	704	0.1−	0.1−
1997 09 26	327	0.5−	0.6+	2000 03 01	703	0.0	0.0	2000 04 06	699	0.0	0.1−
1997 09 26	327	0.3−	0.6+	2000 03 01	703	0.3+	0.0	2000 04 06	704	0.0	0.1−
1997 09 30	327	0.3−	0.4+	2000 03 01	703	0.0	0.3−	2000 04 06	699	0.1−	0.2−
1997 09 30	327	0.3−	0.3+	2000 03 09	704	0.2+	0.9+	2000 04 06	704	0.1+	0.0
1997 09 30	327	0.2+	0.7+	2000 03 09	704	0.6+	0.3+	2000 04 06	699	0.6−	0.3−
1997 10 09	327	0.0	0.5+	2000 03 09	704	0.6+	0.1+	2000 04 06	704	0.0	0.1+
1997 10 09	327	0.2−	0.4+	2000 03 09	704	0.5+	0.6+	2000 04 06	699	0.3−	0.2−
1997 10 09	327	0.0	0.2+	2000 03 09	704	0.6+	0.5+	2000 04 10	704	0.1+	0.4−
1998 11 29	426	1.0+	0.1+	2000 03 10	704	0.2+	0.1−	2000 04 10	704	0.4−	0.8−
1998 11 29	426	0.5+	0.0	2000 03 10	704	0.7+	1.2+	2000 04 10	704	0.5−	0.8−
1998 11 29	426	1.1+	0.0	2000 03 10	704	0.5+	1.1+	2000 04 10	704	0.0	0.7−
1998 11 30	426	0.8+	0.4−	2000 03 10	704	0.1−	0.4+	2000 04 10	704	0.5−	1.1−
1998 11 30	426	0.2+	0.4+	2000 03 10	704	(0.4+	2.1+)				
1998 11 30	426	1.0+	0.3−	2000 03 11	704	0.1−	0.0				

(14541)* 1997 SF = 1987 WS₁

Discovered 1997 Sept. 20 at Kleť.

Id. M. E. Sansaturio (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	114.24564		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17933295	ω	315.93233	+0.72512894	−0.67996986
a	3.1143159	Ω	87.24331	+0.65808221	+0.63777296
e	0.1505312	i	6.25117	+0.20277037	+0.36178260
P	5.50	H	13.8	G 0.15	U 0

2000 APR. 18

M.P.C. 39859

1997 09 20	046	0.2−	0.3+	1998 12 10	046	0.3−	0.4+	1999 01 20	046	0.5−	0.1+
1997 09 20	046	0.4−	0.7+	1998 12 10	046	0.0	0.4+	1999 01 20	046	0.4+	0.0
1997 09 21	046	0.6+	0.0	1998 12 10	046	0.2−	0.3+	2000 03 12	704	0.5−	0.8+
1997 09 21	046	0.1−	0.2+	1998 12 11	046	0.0	0.3+	2000 03 12	704	1.1+	0.3+
1997 09 21	046	0.8−	0.3+	1998 12 11	046	0.1−	0.3+	2000 03 12	704	0.4+	0.2+
1997 09 22	046	0.1+	0.5+	1998 12 11	046	0.2−	0.3+	2000 03 12	704	0.3+	0.7+
1997 09 22	046	0.2−	0.6+	1998 12 14	704	0.4+	1.3−	2000 03 12	704	0.4+	0.0
1997 09 22	046	0.1+	0.1+	1998 12 14	704	1.3+	0.1−	2000 04 02	046	0.2+	0.9+
1997 09 23	046	0.2+	0.1+	1998 12 14	704	0.1−	1.0−	2000 04 02	046	0.2+	1.2+
1997 09 23	046	0.2+	0.3+	1998 12 14	704	0.7+	1.9−	2000 04 02	046	0.2+	0.2+
1997 09 23	046	0.3+	0.1−	1998 12 14	704	0.8−	0.6−	2000 04 06	046	0.3+	0.3−
1997 09 26	046	0.1+	0.0	1998 12 17	704	0.1−	0.9+	2000 04 06	046	0.2+	0.5+
1997 09 26	046	0.8−	0.2+	1998 12 17	704	0.1−	0.3+	2000 04 06	046	0.8+	1.0+
1997 09 26	046	0.5−	0.3+	1998 12 17	704	0.2−	1.1−	2000 04 08	704	0.3+	0.8−
1997 10 05	046	0.4−	0.6+	1998 12 17	704	0.2−	0.2−	2000 04 08	704	0.2+	0.5+
1997 10 05	046	0.4−	0.5+	1998 12 17	704	1.1−	0.8+	2000 04 08	704	0.5−	1.3+
1997 10 05	046	0.4−	0.7+	1999 01 16	704	0.2+	0.3+	2000 04 08	704	0.4+	1.5+
1997 10 06	046	0.4−	0.8+	1999 01 16	704	(1.7+	2.6+)	2000 04 08	704	0.2−	1.1+
1997 10 06	046	0.4−	0.1+	1999 01 16	704	0.8+	0.4+				
1997 10 06	046	0.1−	0.2+	1999 01 16	704	0.0	1.2+				

(14542)* 1997 SW₉

Discovered 1997 Sept. 29 by R. A. Tucker at the Goodricke-Pigott

Observatory, Tucson.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.18311701	<i>ω</i>	252.53146	−0.63795521	−0.75459264
<i>a</i>	3.0712624	<i>Ω</i>	238.11004	+0.75720942	−0.57837404
<i>e</i>	0.0984402	<i>i</i>	10.42474	+0.14016792	−0.30995711
<i>P</i>	5.38	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1996 06 18	691	0.1+	0.5+	1997 10 20	683	0.4+	0.5+	1999 01 18	704	1.6+	1.5−
1996 06 18	691	0.5+	0.6+	1997 10 20	683	1.6+	0.4−	1999 01 18	704	1.3+	0.4+
1996 06 18	691	1.2−	0.8+	1997 10 20	683	0.2+	0.4+	1999 01 18	704	0.3+	0.2+
1997 09 29	683	0.4−	0.2+	1997 10 21	683	1.2−	1.6−	1999 01 18	704	0.3+	1.1+
1997 09 29	683	0.4−	0.0	1997 10 21	683	0.5+	0.2+	1999 01 18	704	0.4−	1.1+
1997 09 29	683	0.2−	0.1−	1997 10 21	683	0.3+	0.1+	2000 03 14	704	0.0	0.2−
1997 09 30	683	0.7−	0.2+	1998 12 12	683	0.2−	0.2+	2000 03 14	704	0.2−	0.2−
1997 09 30	683	0.7−	0.4+	1998 12 12	683	0.8−	0.2+	2000 03 14	704	0.1+	0.1−
1997 09 30	683	0.7−	0.9+	1998 12 13	683	0.3−	0.1+	2000 03 14	704	0.6−	0.2−
1997 10 05	683	0.1−	0.4+	1998 12 13	683	0.3−	0.0	2000 03 17	704	0.7−	0.2+
1997 10 05	683	0.7−	0.2−	1998 12 13	683	0.0	0.1+	2000 03 17	704	0.1+	0.2−
1997 10 05	683	0.0	0.7−	1998 12 15	704	0.1−	1.0−	2000 03 17	704	0.6+	0.2−
1997 10 06	683	0.1−	0.1−	1998 12 15	704	0.8+	0.1−	2000 03 17	704	0.2−	0.3+
1997 10 06	683	0.2+	0.2−	1998 12 15	704	1.3−	0.7+	2000 03 17	704	0.1+	0.4−
1997 10 10	683	0.3+	0.0	1998 12 15	704	0.4+	1.3+	2000 04 07	704	0.2+	0.3+
1997 10 10	683	0.6+	0.2+	1998 12 22	704	0.7+	1.0−	2000 04 07	704	0.4+	0.1+
1997 10 10	683	0.4+	0.0	1998 12 22	704	0.4+	1.4−	2000 04 07	704	0.0	0.3+
1997 10 20	683	0.0	0.0	1998 12 22	704	(2.1−	2.2−)	2000 04 07	704	0.3+	0.5+
1997 10 20	683	0.8+	0.3+	1998 12 22	704	1.9−	1.8+	2000 04 07	704	0.2+	0.7+

(14543)* 1997 SF₁₁ = 1998 VS₃₆

Discovered 1997 Sept. 28 at Saji Observatory.

Id. A. Miyamoto (*MPC* 33264)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.18045534	<i>ω</i>	264.79178	−0.49314581	−0.86047034
<i>a</i>	3.1013889	<i>Ω</i>	215.69326	+0.85950102	−0.45917499
<i>e</i>	0.0567517	<i>i</i>	12.67850	+0.13440689	−0.22079205
<i>P</i>	5.46	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1995 05 29	691	0.5+	0.1+	1997 11 05	867	0.2−	0.2+	2000 03 14	704	0.4−	0.4+
1995 05 29	691	0.5−	0.0	1997 11 19	867	0.5+	0.5+	2000 03 27	699	0.1−	0.0

1995 05 29	691	0.1−	0.3−	1997 11 19	867	1.6−	0.4+	2000 03 27	699	0.4−	0.6+
1997 09 28	691	0.4−	0.0	1997 11 19	867	0.1−	1.0+	2000 03 27	699	0.4−	0.1+
1997 09 28	691	0.3−	0.1−	1997 12 05	867	0.5−	1.2+	2000 03 27	699	0.3−	0.9+
1997 09 28	691	0.3−	0.1−	1997 12 05	867	0.9−	1.1+	2000 03 30	704	0.4+	0.2+
1997 09 28	867	0.5−	0.1+	1997 12 05	867	0.3−	1.1+	2000 03 30	704	0.6+	0.5+
1997 09 28	867	0.3−	0.2+	1998 01 02	867	1.9−	1.1+	2000 03 30	704	1.3+	1.0+
1997 09 28	867	0.4−	0.1+	1998 01 02	867	(2.1−	0.9+)	2000 03 30	704	0.2−	0.2−
1997 09 28	867	0.2+	0.1+	1998 01 02	867	(2.2−	1.0+)	2000 03 30	704	0.5+	1.9+
1997 09 29	867	0.6+	0.1+	1998 11 14	867	0.6−	0.3−	2000 04 03	699	0.4+	0.8+
1997 09 29	867	1.2+	0.1+	1998 11 14	867	0.5−	0.1−	2000 04 03	699	0.9−	0.1+
1997 09 29	867	0.7+	0.4+	1998 11 14	867	0.7−	0.3−	2000 04 03	699	0.3−	0.0
1997 09 30	691	0.4+	0.1−	1998 11 15	867	0.2+	0.7−	2000 04 03	699	1.3−	0.0
1997 09 30	691	0.3+	0.2−	1998 11 15	867	0.5+	0.6−	2000 04 07	704	0.3−	0.6−
1997 09 30	691	0.2+	0.2−	1998 11 26	867	0.4+	0.5−	2000 04 07	704	0.9−	0.4+
1997 09 30	867	0.3−	0.7+	1998 11 26	867	0.4+	0.3−	2000 04 07	704	0.4+	0.4−
1997 09 30	867	0.4−	0.4+	1998 11 26	867	0.3+	0.4−	2000 04 07	704	0.4+	0.3+
1997 09 30	867	0.1−	0.5+	1998 12 15	704	0.1+	0.4−	2000 04 07	704	0.5−	0.6−
1997 09 30	867	0.3−	0.3+	1998 12 15	704	(2.4+	0.8−)	2000 04 08	704	0.2−	0.1−
1997 10 01	867	0.4+	0.2+	1998 12 15	704	1.7−	0.3−	2000 04 08	704	0.2+	0.1+
1997 10 01	867	0.3+	0.0	1998 12 15	704	(2.2−	0.2+)	2000 04 08	704	0.9−	0.1+
1997 10 08	867	(0.0	2.1−)	1998 12 15	704	1.3+	1.3+	2000 04 08	704	0.3+	0.1−
1997 10 08	867	0.4+	1.8−	2000 01 28	704	1.4−	0.6−	2000 04 08	704	0.6+	0.8−
1997 10 08	867	0.8+	1.9−	2000 01 28	704	0.8−	1.1+	2000 04 10	704	0.6+	0.7−
1997 10 29	867	0.0	0.8+	2000 01 28	704	0.3+	1.2+	2000 04 10	704	0.4+	0.2+
1997 10 29	867	0.2−	0.7+	2000 03 14	704	0.3+	0.3+	2000 04 10	704	0.6+	1.1+
1997 10 29	867	0.4−	0.8+	2000 03 14	704	0.3+	0.2−	2000 04 10	704	0.5+	0.9+
1997 11 05	867	0.5+	0.7+	2000 03 14	704	0.8+	0.8−	2000 04 10	704	0.9+	1.4+
1997 11 05	867	0.4+	0.6+	2000 03 14	704	0.2+	0.3−				

(14544)* 1997 SG₂₁ = 1986 RV₉

Discovered 1997 Sept. 29 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 30881)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.18435997	<i>ω</i>	176.84419	+0.88659456	−0.45483137
<i>a</i>	3.0574425	<i>Ω</i>	210.65973	+0.42068416	+0.86851711
<i>e</i>	0.0916170	<i>i</i>	9.49656	+0.19228866	+0.19699356
<i>P</i>	5.35	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1986 09 08	095	0.6+	1.3−	1999 02 12	704	0.3+	1.1−	2000 03 30	704	0.8+	0.8+
1986 09 11	095	0.0	0.9−	1999 02 12	704	0.7+	1.2−	2000 03 30	704	0.2−	0.1−
1997 09 29	691	0.7−	0.1+	1999 02 12	376	1.6−	0.8+	2000 03 30	704	0.1−	0.1+
1997 09 29	691	0.7−	0.1+	1999 02 12	376	0.5−	0.3+	2000 03 30	704	0.2−	1.2−
1997 09 29	691	0.7−	0.2+	1999 02 14	376	0.1+	0.1+	2000 04 02	699	0.6−	0.1−
1997 10 03	691	0.6−	0.0	1999 02 14	376	0.3+	0.5−	2000 04 02	699	0.3−	0.2−
1997 10 03	691	0.5−	0.1−	1999 02 16	704	0.8−	0.7−	2000 04 02	699	0.5−	0.2+
1997 10 03	691	0.4−	0.6+	1999 02 16	704	0.6−	1.5+	2000 04 02	699	0.7−	0.2+
1997 10 23	684	1.3+	0.4+	1999 02 16	704	0.1+	0.1+	2000 04 07	704	0.2−	0.3+
1997 10 23	684	0.5+	0.2+	1999 02 16	704	1.4−	1.0+	2000 04 07	704	0.5+	0.1+
1997 10 24	684	0.4+	0.7+	1999 02 19	566	0.0	0.3+	2000 04 07	704	0.4+	0.5−
1997 10 24	684	0.6+	1.2+	1999 02 19	566	0.3+	0.8+	2000 04 07	704	0.2+	0.5+
1998 12 23	704	(1.5+	2.2−)	1999 02 19	566	0.2+	0.5+	2000 04 08	704	0.7+	0.1+
1998 12 23	704	1.4+	1.4−	2000 03 06	608	0.9−	0.2+	2000 04 08	704	0.6+	0.4+
1998 12 23	704	1.7+	0.8−	2000 03 06	608	0.6−	0.4+	2000 04 08	704	0.7+	0.6+
1998 12 23	704	(4.7−	1.2−)	2000 03 06	608	0.4−	0.0	2000 04 08	704	0.5+	0.1+
1999 01 20	704	0.1+	0.1+	2000 03 09	704	1.3+	0.2+	2000 04 08	704	0.6+	0.4+
1999 01 20	704	0.3−	0.2+	2000 03 09	704	0.9−	0.3+	2000 04 10	704	0.7+	0.6−
1999 01 20	704	0.2+	0.5+	2000 03 09	704	1.1−	0.8+	2000 04 10	704	0.4+	0.5−
1999 01 20	704	1.6−	0.1−	2000 03 27	699	0.2−	0.1+	2000 04 10	704	0.6+	0.2−
1999 02 12	704	0.2−	1.7−	2000 03 27	699	0.4−	0.1−	2000 04 10	704	0.7−	0.5−
1999 02 12	704	0.3+	0.1+	2000 03 27	699	0.3−	0.3−	2000 04 10	704	0.2+	0.6+
1999 02 12	704	1.1+	0.6−	2000 03 27	699	0.0	0.4−				

(14545)* 1997 SK₂₅ = 1998 YL₁₂

Discovered 1997 Sept. 29 by Y. Shimizu and T. Urata at Nachi-Katsuura Observatory.

Id. T. Kagawa (*MPC* 33506)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		156.60057		(2000.0)		P		Q	
<i>n</i>	0.19125534	ω	211.05549	+0.91613739	-0.40021526				
<i>a</i>	2.9835066	Ω	172.42967	+0.39406456	+0.88870482				
<i>e</i>	0.0920134	<i>i</i>	9.96793	+0.07352153	+0.22367721				
<i>P</i>	5.15	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1994 02 16	691	0.2-	0.3+	1999 03 17	561	0.2+	0.1+	2000 03 27	699	0.9+	0.3+
1994 02 16	691	0.2+	0.3+	1999 03 17	561	0.2+	0.1+	2000 03 27	699	0.7+	0.0
1997 09 29	905	0.9+	1.1-	1999 03 17	561	0.0	0.0	2000 03 27	699	0.8+	0.7+
1997 09 29	905	0.8+	0.1+	2000 02 28	120	1.0-	0.6+	2000 03 27	699	0.0	0.2-
1997 09 29	905	0.7-	0.0	2000 02 28	120	1.2-	0.7-	2000 03 29	704	0.6+	0.2+
1997 09 30	905	1.0+	0.2-	2000 02 29	120	0.1+	0.4-	2000 03 29	704	0.2+	0.3+
1997 09 30	905	1.4+	1.9+	2000 03 01	703	1.7+	1.6+	2000 03 29	704	0.2-	0.5+
1997 10 05	905	0.8-	1.2-	2000 03 01	703	0.2-	0.5-	2000 03 29	704	0.4-	0.3+
1997 10 05	905	0.4+	0.0	2000 03 01	703	0.2+	1.2+	2000 03 29	704	0.3-	1.0+
1997 10 21	385	1.0-	0.2+	2000 03 01	703	0.1-	0.5-	2000 03 30	888	0.2+	0.9-
1997 10 21	385	0.7-	0.3-	2000 03 01	888	0.4+	0.1-	2000 03 30	888	0.1-	0.6-
1997 12 05	385	0.4-	0.4-	2000 03 01	888	0.0	0.1+	2000 03 30	888	0.2+	0.6-
1997 12 05	385	1.3-	0.0	2000 03 01	888	0.2-	0.4+	2000 04 04	704	1.3+	0.4-
1998 12 22	704	0.1-	0.5-	2000 03 08	704	0.3-	0.8-	2000 04 04	704	0.4+	0.9+
1998 12 22	704	0.7-	0.3+	2000 03 08	704	0.3-	0.4+	2000 04 04	704	1.2+	1.0+
1998 12 22	704	0.0	0.1-	2000 03 08	704	0.3+	0.6+	2000 04 04	704	0.2-	0.4+
1998 12 22	704	(2.9-	1.4-)	2000 03 08	704	(0.1-	2.3+)	2000 04 04	704	0.4+	0.4+
1998 12 24	888	0.2+	0.1-	2000 03 10	704	(0.6+	2.1+)	2000 04 08	704	0.7+	0.6+
1998 12 24	888	0.1+	0.5-	2000 03 10	704	1.4-	0.0	2000 04 08	704	0.3-	1.5-
1998 12 25	888	0.6-	0.1-	2000 03 10	704	1.5-	0.6-	2000 04 08	704	0.0	1.0-
1998 12 25	888	0.2-	0.8+	2000 03 10	704	1.8-	0.1+	2000 04 08	704	1.4+	1.0-
1999 01 13	888	0.1+	0.1+	2000 03 10	704	1.5-	1.6-	2000 04 08	704	0.6+	1.4-
1999 01 22	385	0.1+	0.3+	2000 03 11	120	(2.0-	0.5+)	2000 04 10	704	0.4+	0.2+
1999 02 05	888	1.1+	0.5-	2000 03 11	120	(2.2+	0.5-)	2000 04 10	704	0.1-	0.3+
1999 02 05	888	0.3+	0.3+	2000 03 11	704	0.0	0.3-	2000 04 10	704	0.3+	0.9+
1999 03 12	561	0.1-	0.2-	2000 03 11	704	0.6-	0.4-	2000 04 10	704	0.3-	0.1+
1999 03 12	561	0.3-	0.0	2000 03 11	704	0.9-	0.5-	2000 04 10	704	0.2-	0.1-
1999 03 12	561	0.6-	0.3-	2000 03 11	704	0.9-	0.4-				

(14546)* 1997 TM₁₈ = 4640 T-1

Discovered 1997 Oct. 3 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 30774)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		287.20792		(2000.0)		P		Q	
<i>n</i>	0.23818575	ω	246.48582	+0.05630850	+0.99482564				
<i>a</i>	2.5774616	Ω	27.15803	-0.83509214	+0.09335138				
<i>e</i>	0.1689790	<i>i</i>	10.67682	-0.54722068	-0.04009327				
<i>P</i>	4.14	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1971 05 13	675	1.3-	1.9-	1998 12 17	704	0.1-	0.7-	2000 04 06	704	0.1-	0.8+
1971 05 14	675	0.2-	1.4-	1998 12 17	704	0.3-	0.9-	2000 04 06	704	0.2+	1.0+
1971 05 16	675	2.1-	2.0-	1998 12 17	704	0.7+	1.1-	2000 04 06	704	0.6+	0.2+
1997 10 03	327	0.4-	0.4+	1999 01 16	704	1.1-	0.7-	2000 04 06	704	0.6+	0.9+
1997 10 03	327	0.0	0.6+	1999 01 16	704	0.8+	0.7+	2000 04 06	699	0.0	0.2+
1997 10 03	327	0.2-	0.8+	1999 01 16	704	1.0-	1.3+	2000 04 06	699	0.1+	0.2+
1997 10 09	327	0.0	0.4+	1999 01 16	704	0.5-	0.6-	2000 04 06	699	0.0	0.0
1997 10 09	327	0.1+	0.4+	1999 01 16	704	0.0	0.7+	2000 04 06	699	0.2-	0.1+
1997 10 09	327	0.3+	0.3+	2000 03 01	703	0.1+	0.2+	2000 04 07	704	0.5+	0.3+
1997 10 11	327	0.2+	0.3+	2000 03 01	703	0.2+	0.2+	2000 04 07	704	(0.2+	2.4+)
1997 10 11	327	0.2+	0.3+	2000 03 01	703	0.3+	0.0	2000 04 07	704	0.3+	0.5+

1997 10 11	327	0.0	0.1+	2000 03 01	703	0.6-	0.3+	2000 04 07	704	0.5+	0.4+
1997 10 17	327	0.0	0.5+	2000 03 08	704	0.3-	0.1+	2000 04 07	704	0.1+	0.8+
1997 10 17	327	0.5-	0.7+	2000 03 08	704	0.1+	0.1-	2000 04 08	704	0.4+	0.2+
1997 10 17	327	0.7-	0.1+	2000 03 08	704	0.8-	0.5-	2000 04 08	704	0.2+	0.1+
1997 10 17	327	0.5-	0.1+	2000 03 08	704	0.7-	0.2+	2000 04 08	704	0.4+	0.1-
1997 10 18	327	0.2+	0.1-	2000 03 08	704	1.3-	0.1+	2000 04 08	704	0.7+	0.2-
1997 10 18	327	0.4+	0.5-	2000 03 08	608	0.7+	1.0-	2000 04 08	704	0.4+	0.1+
1997 10 18	327	0.0	0.1+	2000 03 08	608	0.6+	1.1-	2000 04 08	704	0.1+	0.3+
1997 10 19	327	0.2-	0.5+	2000 03 08	608	0.5+	1.5-	2000 04 08	704	0.5+	0.0
1997 10 19	327	0.5-	0.3+	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.5+	0.6+
1997 10 19	327	0.1+	0.0	2000 03 29	704	0.3-	0.3+	2000 04 08	704	0.7+	0.6+
1997 10 30	704	0.9-	1.2+	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.6+	0.5+
1997 10 30	704	0.8-	0.5+	2000 03 29	704	1.0-	1.7+	2000 04 10	704	0.0	0.3+
1997 10 30	704	0.2+	0.8+	2000 03 29	704	0.5+	0.1+	2000 04 10	704	0.1+	0.2+
1997 10 30	704	1.4-	0.0	2000 04 02	699	0.5-	0.2+	2000 04 10	704	0.4+	0.1-
1997 10 30	704	1.3-	0.1-	2000 04 02	699	0.2-	0.5+	2000 04 10	704	0.2+	0.4+
1998 12 10	557	0.1+	0.8+	2000 04 02	699	0.1-	0.1+	2000 04 10	704	0.5+	0.2+
1998 12 10	557	1.0+	0.4-	2000 04 02	699	0.4-	0.4+	2000 04 13	704	1.1+	0.5+
1998 12 14	704	1.6+	0.6+	2000 04 04	704	0.3-	0.5+	2000 04 13	704	0.3+	0.5+
1998 12 14	704	0.1+	0.2-	2000 04 04	704	0.2+	0.0	2000 04 13	704	0.7-	0.0
1998 12 14	704	1.5-	0.9-	2000 04 04	704	0.1+	0.1+	2000 04 13	704	0.5+	0.5-
1998 12 14	704	1.3+	0.1-	2000 04 04	704	0.2+	0.3+	2000 04 13	704	0.5+	0.5+
1998 12 14	704	0.8-	1.4+	2000 04 04	704	0.1+	0.3+				
1998 12 17	704	0.1-	0.6-	2000 04 06	704	0.4+	0.2+				

(14547)* 1997 TF₁₉ = 1991 PE₁₅

Discovered 1997 Oct. 8 by T. Kagawa and T. Urata at the Gekko Observatory.

Id. T. Urata (*MPC* 30989)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		174.62131		(2000.0)		P		Q	
<i>n</i>	0.17912093	ω	318.04775	+0.99924458	+0.03290993				
<i>a</i>	3.1167729	Ω	40.08046	-0.02118949	+0.90722681				
<i>e</i>	0.2115997	<i>i</i>	1.83962	-0.03257737	+0.41935242				
<i>P</i>	5.50	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1991 08 07	675	0.4-	0.3-	1997 11 03	704	0.0	0.6+	1999 01 23	691	0.0	0.5-
1991 08 07	675	1.0-	0.7-	1997 11 03	704	0.0	0.8+	2000 03 11	704	0.0	0.8+
1991 08 10	675	1.1+	1.8-	1997 11 03	704	0.5+	0.1-	2000 03 11	704	0.1-	0.5-
1991 08 10	675	1.6+	1.1-	1997 11 03	704	2.0-	0.2+	2000 03 11	704	0.4-	1.1+
1997 10 08	888	0.2+	1.4-	1999 01 15	385	0.5+	0.5+	2000 03 11	704	1.0+	0.0
1997 10 08	888	0.0	1.6-	1999 01 15	385	0.1+	0.9+	2000 03 11	704	1.1+	0.9+
1997 10 11	888	0.2+	0.4+	1999 01 16	691	1.1+	0.2-	2000 04 05	704	0.1+	0.9-
1997 10 11	888	0.2+	0.2+	1999 01 16	691	0.8-	0.8-	2000 04 05	704	0.1+	0.4+
1997 10 22	886	1.3-	1.6+	1999 01 16	385	0.3+	1.2-	2000 04 05	704	0.4+	0.5+
1997 10 22	886	(3.0-	1.0+)	1999 01 16	385	0.8-	1.4-	2000 04 05	704	1.0-	0.3-
1997 10 25	385	0.4+	0.6+	1999 01 19	691	0.7-	0.7-	2000 04 06	691	0.3-	0.1-
1997 10 25	385	0.8+	0.7+	1999 01 19	691	0.6-	0.6-	2000 04 06	691	0.0	0.4-
1997 10 25	385	0.2+	0.1-	1999 01 19	691	0.4-	0.4-	2000 04 06	691	0.2-	0.3-
1997 10 26	886	0.5+	0.4-	1999 01 23	691	0.1-	0.5-				
1997 10 26	886	0.6-	0.3+	1999 01 23	691	0.0	0.6-				

(14548)* 1997 TJ₂₄ = 1986 RW₉

Discovered 1997 Oct. 5 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Epoch 2000 Feb. 26.0 TT = J

2000 APR. 18

M.P.C. 39861

Residuals in seconds of arc

1986 09 08	095	0.0	0.6−	1997 10 21	327	0.3+	0.2+	1999 04 07	704	1.3+	0.2−
1996 06 11	691	0.4+	0.5+	1997 10 21	327	0.2+	0.2+	1999 04 07	704	0.1+	1.2−
1996 06 11	691	0.4+	0.3+	1997 10 21	327	0.1+	0.3+	2000 03 10	704	1.1+	0.7−
1996 06 11	691	0.4+	0.2+	1997 10 24	132	0.3+	1.1+	2000 03 10	704	0.2−	0.6+
1997 10 05	327	0.2+	0.7+	1997 10 25	132	0.2+	0.1−	2000 03 10	704	1.2−	0.5+
1997 10 05	327	0.5−	0.2+	1997 10 25	132	0.6−	0.3+	2000 03 14	704	0.7+	0.7−
1997 10 05	327	0.4+	0.9+	1997 10 26	124	0.1−	0.2−	2000 03 14	704	0.4−	0.1+
1997 10 08	132	0.4−	0.2+	1997 10 26	124	0.5−	0.1−	2000 03 14	704	0.7−	0.1−
1997 10 08	132	0.8+	1.6−	1997 10 26	124	0.3+	0.0	2000 03 14	704	0.0	0.2+
1997 10 08	132	0.1+	0.6+	1997 10 27	959	0.2+	0.6+	2000 03 14	704	1.3−	0.3+
1997 10 10	132	0.2−	0.1−	1997 10 27	959	0.4−	0.5+	2000 04 07	704	0.4+	0.0
1997 10 10	132	0.7−	0.9−	1997 10 27	959	0.8+	0.7−	2000 04 07	704	0.1−	0.3+
1997 10 10	132	0.3+	0.6−	1997 12 28	566	0.7−	0.5−	2000 04 07	704	0.1−	0.3−
1997 10 11	327	0.4−	0.1−	1997 12 28	566	0.4−	0.2−	2000 04 07	704	0.3−	0.1+
1997 10 11	327	0.2−	0.1−	1997 12 28	566	0.9−	0.1−	2000 04 07	704	0.5−	0.2+
1997 10 11	327	0.2−	0.1+	1998 12 18	699	0.1+	0.4+	2000 04 08	704	0.2+	0.9+
1997 10 11	327	0.3−	0.0	1998 12 18	699	0.3+	0.5+	2000 04 08	704	0.0	0.0
1997 10 20	327	0.0	0.0	1998 12 18	699	0.5+	0.4+	2000 04 08	704	0.1+	0.4+
1997 10 20	327	0.2+	0.3+	1999 04 07	704	0.4+	1.1−	2000 04 08	704	1.6+	0.4−
1997 10 20	327	0.4+	0.1−	1999 04 07	704	1.4−	0.8+				

(14549)* 1997 TM₂₇ = 1976 SR₇ = 1976 SN = 2000 EQ₂₅

Discovered 1997 Oct. 8 by S. Otomo at Kiyosato.

Id. G. V. Williams (*MPC* 39186), H. Oishi (d, *JAM* 1336)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	238.07186		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23554368	ω	312.45651	+0.80300554	+0.59590905
<i>a</i>	2.5966998	Ω	10.97545	−0.53262613	+0.72407712
<i>e</i>	0.2420647	<i>i</i>	2.59849	−0.26737895	+0.34728190
<i>P</i>	4.18	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1976 09 25	095	1.6+	0.1−	2000 03 04	688	0.1−	1.8+	2000 03 26	699	0.1+	0.1+
1976 09 29	049	0.5−	1.1−	2000 03 04	688	0.3−	0.3+	2000 03 26	699	0.5−	0.3+
1976 09 29	049	0.8−	0.4−	2000 03 08	704	0.4+	0.6+	2000 04 04	704	1.2+	0.1−
1976 09 30	049	0.0	0.6+	2000 03 08	691	0.7−	0.4−	2000 04 04	704	1.2+	1.8−
1976 09 30	049	0.1+	0.2+	2000 03 08	704	0.4−	0.2+	2000 04 04	704	0.7+	1.0−
1997 10 08	894	0.8−	0.9+	2000 03 08	704	0.5+	0.4+	2000 04 05	704	0.0	0.4+
1997 10 08	894	0.7+	0.7+	2000 03 08	691	0.8−	0.3−	2000 04 05	704	0.1−	0.2+
1997 10 25	894	0.9−	1.4+	2000 03 08	704	0.9+	1.6+	2000 04 05	704	0.2+	0.3+
1997 10 25	894	1.7−	0.6+	2000 03 08	704	0.4+	0.4+	2000 04 05	704	0.4+	0.1−
1997 10 26	894	1.4−	0.7+	2000 03 08	691	0.7−	0.3−	2000 04 05	704	1.2+	0.3+
1997 10 26	894	1.3−	0.8+	2000 03 09	691	0.6−	0.3−	2000 04 06	704	0.1+	0.2+
1997 10 30	704	(2.0+	0.9+)	2000 03 09	691	0.7−	0.1−	2000 04 06	704	0.3+	0.4+
1997 10 30	704	1.5+	0.1+	2000 03 09	691	0.7−	0.3−	2000 04 06	704	0.0	0.4+
1997 10 30	704	0.2+	1.4+	2000 03 10	704	0.7+	0.3−	2000 04 06	704	0.3−	0.6+
1997 10 30	704	0.2+	0.9+	2000 03 10	704	0.4+	0.1+	2000 04 06	704	0.1+	0.5+
1997 10 30	704	0.8+	0.5+	2000 03 10	704	0.7+	0.5−	2000 04 07	699	0.1−	0.4+
1997 10 30	566	0.4−	0.1+	2000 03 10	704	0.3+	0.8−	2000 04 07	699	0.2−	0.7+
1997 10 30	566	0.0	0.2+	2000 03 10	704	(1.3+	2.4−)	2000 04 07	699	0.0	0.2+
1997 10 30	566	0.2−	0.0	2000 03 11	704	0.1+	0.3+	2000 04 07	699	0.4+	0.3+
1997 12 25	566	0.5−	0.4−	2000 03 11	704	0.3−	0.1+	2000 04 08	704	0.2+	0.6+
1997 12 25	566	0.2−	0.0	2000 03 11	704	0.2−	0.6+	2000 04 08	704	0.5+	0.4+
1997 12 25	566	0.5−	0.2+	2000 03 11	704	0.3+	1.0+	2000 04 08	704	0.0	0.7+
1998 12 21	704	0.3−	1.0−	2000 03 11	704	0.2−	0.4+	2000 04 08	704	0.1+	1.2+
1998 12 21	704	(0.5+	2.9−)	2000 03 11	704	0.7+	0.4+	2000 04 08	704	0.1+	1.2+
1998 12 21	704	0.7+	0.2−	2000 03 11	704	0.1+	0.3+	2000 04 10	704	0.2+	0.6−
1998 12 21	704	1.4−	2.0−	2000 03 11	704	0.2+	0.6+	2000 04 10	704	0.2+	0.1+
1998 12 21	704	(5.3−	0.8+)	2000 03 11	704	0.4−	0.4−	2000 04 10	704	0.4−	0.0
2000 01 11	699	0.6+	0.5+	2000 03 11	704	1.2−	1.9−	2000 04 10	704	0.6−	0.3−
2000 01 11	699	0.3−	0.2+	2000 03 26	699	0.2+	0.2+	2000 04 10	704	0.7−	0.2+
2000 01 11	699	1.8+	1.2−	2000 03 26	699	0.2+	0.3+				

(14550)* 1997 UU₇ = 1972 LL

Discovered 1997 Oct. 27 by L. Šarounová at Ondřejov.

Id. G. V. Williams (*MPC* 33265)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	305.41907		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28096454	ω	122.50288	+0.26179613	+0.96450966
<i>a</i>	2.3087046	Ω	162.57451	−0.91955365	+0.26010202
<i>e</i>	0.1440719	<i>i</i>	6.59772	−0.29305948	+0.04547587
<i>P</i>	3.51	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1972 06 06	095	0.1−	0.7−	1998 11 13	557	1.0−	0.1−	2000 03 03	703	0.6−	0.9+
1996 03 20	566	(0.7+	2.5−)	1998 11 23	557	0.1−	0.4+	2000 03 07	557	0.5−	0.2−
1996 03 20	566	(1.0+	2.6−)	1998 11 24	557	0.0	0.3+	2000 03 07	557	0.4−	0.2+
1996 03 20	566	(0.4+	2.2−)	1998 12 24	557	0.6+	0.4+	2000 04 03	557	0.5−	0.6+
1997 10 27	557	0.1+	0.5+	1998 12 24	557	0.4+	0.0	2000 04 03	557	0.0	0.3+
1997 10 27	557	0.0	0.3+	1999 01 06	557	0.0	0.2−	2000 04 05	557	0.2−	0.1+
1997 10 28	557	0.0	0.1−	1999 01 06	557	0.1−	0.5−	2000 04 05	557	0.3+	0.2+
1997 10 28	557	0.1−	0.2+	1999 01 06	557	0.1+	0.6−	2000 04 07	704	0.4−	0.4−
1997 10 30	557	0.1+	0.3+	1999 01 18	704	0.9−	0.9−	2000 04 07	704	0.4+	0.7−
1997 10 30	557	0.1+	0.1+	1999 01 18	704	0.4+	0.4−	2000 04 07	704	0.4+	0.1−
1997 11 03	557	0.3−	0.4+	1999 01 18	704	0.4+	0.2+	2000 04 07	704	0.1+	0.1−
1997 11 03	557	0.2−	0.6+	1999 01 20	704	1.0+	1.7+	2000 04 07	704	0.9+	0.1+
1997 11 20	557	0.3+	0.5−	1999 01 20	704	0.4−	0.6+	2000 04 12	704	0.3−	0.1+
1997 11 20	557	0.2−	0.3−	1999 01 20	704	0.6−	0.3−	2000 04 12	704	0.1+	0.2+
1998 01 10	557	0.0	0.4−	1999 01 20	704	(2.3+	1.6−)	2000 04 12	704	0.8−	0.1+
1998 01 10	557	0.4+	0.1+	2000 03 03	703	0.4+	0.2−	2000 04 12	704	0.5+	0.4+
1998 01 10	557	1.0−	0.6+	2000 03 03	703	0.3−	0.5+	2000 04 12	704	0.7+	0.6+
1998 11 13	557	0.0	0.0	2000 03 03	703	0.0	0.4+				

(14551)* 1997 UN₈ = 1983 RY₆ = 2000 DK₁₀₁

Discovered 1997 Oct. 22 by T. Okuni at Nanyo.

Id. G. V. Williams (*MPC* 39186)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	256.53884		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21599165	ω	259.71127	+0.26396281	+0.96303978
<i>a</i>	2.7511319	Ω	25.78822	−0.82964955	+0.25506569
<i>e</i>	0.2185929	<i>i</i>	7.08338	−0.49194030	+0.08657871
<i>P</i>	4.56	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1983 09 06	095	0.5−	0.5+	1998 12 14	704	1.2+	1.9−	2000 03 05	704	0.3+	0.1+
1996 03 24	809	0.7+	0.4−	1998 12 14	704	0.4−	0.1+	2000 03 05	704	0.6−	0.1−
1996 03 24	809	1.0+	0.6−	1998 12 14	704	(0.5+	2.4−)	2000 03 05	704	0.2+	0.2+
1996 03 24	809	0.0	0.1−	1998 12 14	704	0.7+	0.4−	2000 03 05	704	0.1+	0.2−
1996 05 20	566	0.6+	1.0+	1998 12 14	704	(1.1−	2.8−)	2000 03 05	704	0.2−	0.1+
1996 05 20	566	0.4+	0.8+	2000 02 04	704	0.1+	0.2−	2000 03 12	704	0.2+	0.1+
1996 05 20	566	0.1−	1.5+	2000 02 04	704	0.8+	0.5+	2000 03 12	704	0.1−	0.1−
1997 10 11	399	0.4−	0.6+	2000 02 04	704	0.9+	0.0	2000 03 12	704	0.2+	0.4+
1997 10 11	399	1.3+	0.8−	2000 02 04	704	0.3−	0.8+	2000 03 12	704	0.2+	0.2+
1997 10 22	358	0.6−	1.8−	2000 02 04	704	0.2−	0.2−	2000 03 12	704	0.2+	0.4+
1997 10 22	358	0.6−	1.0−	2000 02 11	704	0.4+	0.2+	2000 03 28	704	0.8−	1.0+
1997 10 23	358	0.5−	1.2+	2000 02 11	704	0.6+	0.6+	2000 03 28	704	0.7−	0.4−
1997 10 23	358	0.4−	0.3+	2000 02 11	704	0.7+	0.2+	2000 03 28	704	1.2−	0.3+
1997 10 30	704	0.5−	1.1+	2000 02 11	704	0.6+	0.7+	2000 03 28	704	0.7−	0.2+
1997 10 30	704	0.2+	1.0+	2000 02 29	704	0.4+	0.2+	2000 04 03	699	0.1−	0.4−
1997 10 30	704	0.1−	0.8+	2000 02 29	704	0.3+	0.6+	2000 04 03	699	0.2−	0.2−
1997 10 30	704	0.4−	0.5−	2000 02 29	704	0.2−	0.1−	2000 04 03	699	0.4−	0.1−
1997 10 30	704	0.1−	0.9+	2000 02 29	704	0.0	0.5+	2000 04 03	699	0.1+	0.0
1997 11 02	358	0.6+	1.4+	2000 02 29	704	0.6−	0.1−	2000 04 04	704	0.1−	0.5+
1997 11 02	358	1.0−	1.5+	2000 03 02	703	0.7−	0.1+	2000 04 04	704	0.3+	0.0
1997 11 03	358	1.0−	0.6+	2000 03 02	703	0.1+	0.2+	2000 04 04	704	0.1+	1.6−
1997 11 03	358	(0.3+	2.2+)	2000 03 02	703	0.3+	0.5+				
1997 11 03	358	(3.5−	0.6−)	2000 03 02	703	0.6+	0.0				

(14552)* 1997 UX₂₀ = 4052 T-1 = 1991 TA₁₂

Discovered 1997 Oct. 24 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. K. Ichikawa (*MPC* 30992)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 164.41026		(2000.0)		P		Q	
<i>n</i>	0.17028887	ω	312.73711	+0.93304209	−0.35868782		
<i>a</i>	3.2236302	Ω	68.29991	+0.33821800	+0.84813645		
<i>e</i>	0.1415342	<i>i</i>	1.71752	+0.12264192	+0.38988154		
<i>P</i>	5.79	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	1.7+	2.2−	1997 11 29	704	1.3+	1.5+	2000 04 01	691	1.0+	0.4+
1971 03 26	675	1.7−	2.2−	1997 11 29	704	0.6−	0.3−	2000 04 01	691	0.8+	0.1+
1971 03 26	675	1.8−	1.8−	1997 11 29	704	0.7+	0.4+	2000 04 05	704	0.1+	0.5+
1971 03 27	675	1.3−	0.8−	1997 11 29	704	0.7+	0.3+	2000 04 05	704	0.0	1.7+
1971 04 02	675	0.9+	1.4−	1998 11 18	691	0.7−	0.3−	2000 04 05	704	0.5+	1.4+
1991 10 11	691	0.9−	0.3+	1998 11 18	691	0.2−	1.0−	2000 04 05	704	0.1−	1.3+
1991 10 11	691	1.0−	0.1+	1999 02 10	704	0.7−	0.3−	2000 04 05	704	0.1+	1.3+
1991 10 11	691	1.2−	0.2+	1999 02 10	704	0.6+	0.1−	2000 04 06	704	0.6+	0.5−
1991 10 13	691	0.1−	0.3+	1999 02 10	704	1.1−	0.1+	2000 04 06	704	0.6+	0.2−
1991 10 13	691	0.1−	0.3+	1999 02 10	704	0.8−	0.4+	2000 04 06	704	0.3+	0.4+
1991 10 13	691	0.7−	0.2+	1999 02 10	704	0.4+	0.3−	2000 04 06	704	0.3+	1.1+
1997 10 12	327	0.3−	0.2−	1999 02 13	704	(0.7−	2.6+)	2000 04 06	704	0.5+	0.8+
1997 10 12	327	0.5+	0.0	1999 02 13	704	0.2−	0.0	2000 04 07	699	1.4+	1.2+
1997 10 12	327	0.0	0.6−	1999 02 13	704	0.3+	1.5+	2000 04 07	699	0.4−	0.8+
1997 10 12	327	0.1+	0.1+	1999 02 13	704	(4.0−	0.9−)	2000 04 07	699	1.3+	0.3+
1997 10 24	327	0.3+	0.0	2000 03 03	120	1.9−	0.4−	2000 04 07	699	0.9+	0.5+
1997 10 24	327	0.0	0.1+	2000 03 03	120	1.2+	0.8−	2000 04 10	704	0.5−	0.6+
1997 10 24	327	0.3+	0.2+	2000 03 03	120	1.5−	0.3+	2000 04 10	704	0.3+	0.3+
1997 11 02	327	0.1+	0.3+	2000 03 16	120	(3.8−	0.9+)	2000 04 10	704	0.3+	0.1−
1997 11 02	327	0.1+	0.2+	2000 03 16	120	0.9−	1.0+	2000 04 10	704	0.2+	0.2−
1997 11 02	327	0.1−	0.2+	2000 03 16	120	(3.3−	3.8+)	2000 04 10	704	0.3−	0.1−
1997 11 29	704	0.2+	0.8+	2000 04 01	691	0.6+	0.4+				

(14553)* 1997 UD₂₅ = 1987 SD₇

Discovered 1997 Oct. 27 by S. Otomo at Kiyosato.

Id. S. Nakano (*MPC* 31554)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 166.33220		(2000.0)		P		Q	
<i>n</i>	0.20060424	ω	306.21204	+0.76636033	−0.63950689		
<i>a</i>	2.8900763	Ω	93.62526	+0.60728177	+0.69020095		
<i>e</i>	0.0574547	<i>i</i>	3.50507	+0.20952492	+0.33860535		
<i>P</i>	4.91	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 29	033	0.8+	0.0	1997 11 03	704	0.4+	0.3+	1999 02 13	704	0.5+	0.5+
1987 09 30	033	1.0−	0.5−	1997 11 03	704	0.8+	0.0	1999 02 13	704	0.9−	0.9−
1987 09 30	033	0.9+	0.2−	1997 11 03	704	0.8+	0.4+	1999 02 13	704	0.8+	0.2−
1987 10 01	033	0.1−	1.2−	1997 11 03	704	0.1+	0.3−	1999 02 13	704	0.2+	0.6−
1987 10 01	033	0.4+	0.8−	1997 11 03	704	0.3+	0.5−	1999 02 24	699	0.1−	0.7+
1987 10 01	033	0.1+	0.4−	1997 11 05	894	1.3−	0.1+	1999 02 24	699	0.8+	1.1+
1996 07 15	566	0.8+	0.0	1997 11 05	894	0.5+	1.3+	1999 02 24	699	0.5+	0.3−
1996 07 15	566	0.3+	0.1+	1997 11 06	894	0.4−	0.1−	1999 05 08	704	1.3−	1.2−
1996 07 15	566	0.3+	0.4−	1997 11 06	894	0.8−	0.9−	1999 05 08	704	0.5+	1.3+
1997 10 22	704	(0.7−	2.6+)	1998 11 23	699	1.0−	0.3−	1999 05 08	704	0.2−	0.6−
1997 10 22	704	0.5−	1.9+	1998 11 23	699	0.3−	1.9+	1999 05 08	704	0.8−	0.3−
1997 10 22	704	0.4−	1.5+	1998 11 23	699	1.1+	0.9+	2000 02 10	704	(2.4+	0.4+)
1997 10 22	704	(1.7−	3.4+)	1999 01 19	704	0.2−	1.1−	2000 02 10	704	0.2−	1.7+
1997 10 22	704	(2.1−	2.9+)	1999 01 19	704	0.3+	0.7−	2000 02 10	704	0.2+	0.8+
1997 10 27	894	1.9−	0.7+	1999 01 19	704	0.1−	0.1−	2000 04 07	704	1.0−	1.6+
1997 10 27	894	0.5−	0.2+	1999 01 19	704	0.0	1.0−	2000 04 07	704	0.2+	1.2+
1997 10 29	894	2.0−	0.5−	1999 01 19	704	(2.4−	3.2−)	2000 04 07	704	0.5+	0.1+
1997 10 29	894	0.2+	0.9+	1999 02 10	704	0.8+	0.6−	2000 04 07	704	0.1+	0.6+
1997 10 30	566	0.1−	0.2+	1999 02 10	704	0.3−	0.2+	2000 04 08	704	0.1+	0.3+

1997 10 30	566	0.4+	0.6+	1999 02 10	704	0.5+	0.1−	2000 04 08	704	0.2+	0.3+
1997 10 30	566	0.2+	0.5+	1999 02 10	704	0.1−	0.2−	2000 04 08	704	0.7+	1.0+
1997 11 01	894	0.0	1.3+	1999 02 10	704	0.2−	0.9+				
1997 11 01	894	0.5+	0.1+	1999 02 13	704	0.6−	1.2−				

(14554)* 1997 UE₂₅ = 1991 RF₃₆ = 1999 CU₁₉

Discovered 1997 Oct. 27 by S. Otomo at Kiyosato.

Id. E. Bowell (*MPC* 34209), A. Doppler (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 162.07364		(2000.0)		P		Q	
<i>n</i>	0.17767296	ω	276.35552	+0.93813253	−0.34157134		
<i>a</i>	3.1336837	Ω	103.62836	+0.33632814	+0.85970282		
<i>e</i>	0.1577374	<i>i</i>	3.35586	+0.08240600	+0.37978953		
<i>P</i>	5.55	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 14	675	0.3+	0.1−	1997 11 28	809	0.6+	0.8+	2000 04 02	699	0.8+	0.4+
1991 09 14	675	0.2−	0.3+	1998 10 20	910	1.6−	1.2−	2000 04 02	699	0.5+	0.7+
1994 03 05	691	0.4−	0.5−	1998 10 20	910	1.9−	0.2−	2000 04 02	699	1.6+	1.1+
1994 03 05	691	0.4−	0.6−	1998 10 20	910	1.8−	0.3−	2000 04 04	704	0.3−	0.3+
1994 03 05	691	0.2−	0.6−	1999 01 19	704	0.5+	1.6−	2000 04 04	704	0.1−	1.4+
1997 10 27	894	0.6−	1.8+	1999 01 19	704	1.1+	0.7+	2000 04 04	704	0.5+	0.7+
1997 10 27	894	(2.2−	4.0+)	1999 01 19	704	0.3+	0.4+	2000 04 04	704	0.3−	0.7+
1997 10 29	894	0.1−	0.2+	1999 01 19	704	1.4+	0.2+	2000 04 04	704	0.0	1.1+
1997 10 29	894	1.1−	1.8+	1999 02 10	704	0.2+	0.7−	2000 04 06	699	0.3−	1.0+
1997 10 30	566	0.2−	0.7+	1999 02 10	704	0.4−	0.9−	2000 04 06	699	0.0	0.6+
1997 10 30	566	0.0	0.9+	1999 02 10	704	0.3+	0.3−	2000 04 06	699	0.4+	1.3+
1997 10 30	566	0.2−	0.7+	1999 02 10	704	0.7−	0.4+	2000 04 06	699	0.0	0.3+
1997 11 01	894	(0.2−	2.6+)	1999 02 10	704	1.0−	0.9+	2000 04 07	699	0.1−	0.2+
1997 11 03	704	0.1+	0.0	1999 02 13	704	0.4+	1.2−	2000 04 07	699	0.3+	0.0
1997 11 03	704	0.3−	0.3+	1999 02 13	704	0.2−	0.0	2000 04 07	699	0.3+	0.3−
1997 11 03	704	0.1+	0.1−	1999 02 13	704	0.9+	0.7+	2000 04 07	699	(0.1+	2.1+)
1997 11 03	704	0.3−	0.9−	1999 02 13	704	1.1+	0.6−	2000 04 08	704	0.4−	0.3−
1997 11 03	704	(2.4+	0.1−)	2000 03 08	704	1.5+	0.4−	2000 04 08	704	0.9−	0.1−
1997 11 05	894	(0.5−	2.1−)	2000 03 08	704	0.2+	0.0	2000 04 08	704	0.5+	1.4+
1997 11 05	894	(3.0−	1.3+)	2000 03 08	704	0.5−	0.0	2000 04 08	704	0.0	0.6−
1997 11 06	894	0.8−	0.9+	2000 03 29	704	0.7+	0.4+	2000 04 08	704	0.6−	1.1+
1997 11 06	894	1.0−	0.5−	2000 03 29	704	0.1+	0.8+	2000 04 08	704	1.2−	0.3+
1997 11 26	809	0.4+	0.3+	2000 03 29	704	0.4−	0.6−	2000 04 08	704	0.9+	0.3+
1997 11 26	809	0.6+	0.4+	2000 03 29	704	0.7+	1.4−	2000 04 08	704	0.3−	0.7−
1997 11 28	809	0.0	0.3+	2000 04 02	699	0.4+	0.9+				

(14555)* 1997 VQ = 1991 RG₃₃ = 1995 JW₁

Discovered 1997 Nov. 1 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (*MPC* 31116)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 188.97000		(2000.0)		P		Q	
<i>n</i>	0.18312786	ω	160.15492	+0.98839655	−0.13236803		
<i>a</i>	3.0711411	Ω	207.77757	+0.10857439	+0.95869791		
<i>e</i>	0.0976550	<i>i</i>	9.19923	+0.10622556	+0.25174793		
<i>P</i>	5.38	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 10	675	0.1+	0.5−	1998 12 26	699	0.9+	0.8+	2000 04 05	704	0.5−	0.4+
1991 09 10	675	0.3−	0.4−	1998 12 26	699	1.6−	0.1−	2000 04 05	704	0.2−	0.2+
1995 05 05	010	1.8−	1.9+	1999 01 15	699	0.5+	0.8+	2000 04 05	704	0.3−	0.2+
1995 05 05	010	(4.4−	0.8+)	1999 01 15	699	1.1+	0.2+	2000 04 05	704	0.2−	0.5+
1995 05 05	010	(4.4−	1.4+)	1999 01 15	699	1.0+	0.8+	2000 04 05	704	0.1−	0.1+
1995 05 08	010	(0.8+	2.8−)	1999 02 12	704	0.8−	0.2+	2000 04 06	704	0.2−	0.1−
1995 05 08	010	1.2+	2.0−	1999 02 12	704	0.1+	0.1+	2000 04 06	704	0.1+	0.2−
1995 05 08	010	1.3+	0.4−	1999 02 12	704	0.0	0.3+	2000 04 06	704	0.1−	0.2+
1997 10 25	691	1.1−	0.5−	1999 02 12	704	0.4−	0.8+	2000 04 06	704	0.1+	0.5+
1997 10 25	691	0.4−	0.1+	1999 02 12	704	0.2−	0.3+	2000 04 07	704	0.3+	0.1−
1997 10 25	691	1.6−	1.1−	1999 02 14	699	0.5+	0.1−	2000 04 07	704	0.2+	0.2+
1997 10 30	566	0.2−	0.7+	1999 02 14	699	0.3+	0.1+	2000 04 07	704	0.0	0.0

2000 APR. 18

M.P.C. 39863

1997 10 30	566	0.3-	0.5+	1999 02 14	699	0.0	0.1+	2000 04 07	704	0.1+	0.2+
1997 10 30	566	0.5-	0.5+	1999 02 16	704	(2.7-	1.0-)	2000 04 07	704	0.2+	0.3-
1997 11 01	400	0.4-	0.7+	1999 02 16	704	0.1+	1.3-	2000 04 08	704	0.6+	0.2-
1997 11 01	400	0.1+	0.6-	1999 02 16	704	0.2+	1.7-	2000 04 08	704	0.1-	0.4+
1997 11 02	400	0.8-	1.1-	1999 02 16	704	0.1-	1.5-	2000 04 08	704	1.2-	0.3+
1997 11 02	400	0.7+	0.6-	1999 05 07	704	0.2+	1.8-	2000 04 08	704	0.4-	0.5+
1997 11 09	400	0.8+	1.0-	1999 05 07	704	0.9-	1.1+	2000 04 08	704	0.2+	0.2-
1997 11 09	400	0.5+	0.4-	1999 05 07	704	0.4-	0.4-	2000 04 10	704	0.2+	0.1+
1997 11 25	400	1.1+	1.1-	2000 03 04	703	0.4-	0.1+	2000 04 10	704	0.0	0.9+
1997 11 25	400	0.8+	0.1-	2000 03 04	703	0.5-	0.2+	2000 04 10	704	0.3+	0.2+
1997 11 29	704	0.8+	0.6+	2000 03 04	703	0.1-	0.1+	2000 04 10	704	0.2+	0.0
1997 11 29	704	1.0+	1.4+	2000 03 04	703	0.3+	0.9+	2000 04 10	704	0.4-	0.2+
1997 11 29	704	0.1-	0.2+	2000 04 02	699	0.3+	0.1+	2000 04 13	608	0.4+	2.1-
1997 11 29	704	0.1-	1.2+	2000 04 02	699	0.2-	0.3+	2000 04 13	608	0.6+	1.7-
1997 11 29	704	(2.7+	1.1+)	2000 04 02	699	0.0	0.2+	2000 04 13	608	0.1+	2.1-
1998 12 26	699	0.1-	0.2+	2000 04 02	699	0.3-	0.2-				

(14556)* 1997 VN₁ = 1985 PS₁ = 1991 RM₁₀

Discovered 1997 Nov. 1 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 31116)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n		0.17119398		ω		222.07177	
a		3.2122578		Ω		169.05801	
e		0.1455846		i		1.32431	
P		5.76		H		13.0	
				G		0.15	
				U		1	

Residuals in seconds of arc

1985 08 14	010	(3.1-	0.1+)	1999 02 05	327	1.0-	0.1+	2000 04 05	691	0.1-	0.5-
1985 08 16	010	(0.6+	2.5+)	1999 02 06	327	0.2+	0.3+	2000 04 05	704	0.1+	0.2+
1991 09 10	675	1.2-	1.0+	1999 02 06	327	0.2+	0.1-	2000 04 05	691	0.2-	0.2-
1991 09 10	675	0.4+	0.7-	1999 02 06	327	0.0	0.2+	2000 04 05	704	0.3+	0.5+
1991 09 16	675	0.5+	1.7+	1999 02 09	327	0.2-	0.4+	2000 04 05	704	0.4+	0.4+
1991 09 16	675	0.2-	0.6-	1999 02 09	327	0.7-	0.0	2000 04 05	704	0.3+	0.7+
1997 10 29	704	1.8+	0.7+	1999 02 09	327	0.4-	0.2-	2000 04 06	699	0.2+	0.3+
1997 10 29	704	0.0	1.2+	1999 02 10	327	1.4+	0.2+	2000 04 06	704	0.1-	0.5+
1997 10 29	704	0.2+	0.9+	1999 02 10	327	1.0+	0.1+	2000 04 06	699	0.3+	1.0+
1997 10 29	704	0.1+	0.7+	1999 02 10	327	0.0	0.3-	2000 04 06	704	0.7-	0.9+
1997 10 29	704	0.4-	0.9+	1999 02 11	699	1.2+	0.3+	2000 04 06	704	0.4+	0.7+
1997 11 01	399	1.7-	0.4+	1999 02 11	699	0.1-	0.3+	2000 04 06	699	0.7-	0.6+
1997 11 01	399	1.0+	0.6+	1999 02 11	699	0.9+	0.3+	2000 04 06	704	0.0	1.0+
1997 11 02	399	0.8-	0.1+	1999 02 12	704	0.4+	0.1+	2000 04 06	699	0.4-	0.4+
1997 11 02	399	1.4-	1.3+	1999 02 12	704	0.8+	0.3-	2000 04 06	704	0.2-	0.8+
1997 11 24	399	0.4-	1.0-	1999 02 12	704	1.7+	0.8-	2000 04 07	704	0.2+	0.5+
1997 11 24	399	(2.4-	0.2+)	1999 02 12	704	0.2-	0.5-	2000 04 07	704	0.0	0.1-
1997 11 27	399	0.2-	0.3+	1999 02 12	704	0.9-	0.3-	2000 04 07	704	0.6-	1.2+
1997 11 27	399	(2.8-	0.4+)	2000 03 10	704	0.5+	0.5+	2000 04 07	704	0.3+	0.3+
1999 01 12	747	0.2-	0.1-	2000 03 10	704	0.7+	0.2+	2000 04 07	704	0.6-	0.3+
1999 01 12	747	0.2-	0.2+	2000 03 10	704	0.1+	0.3-	2000 04 08	704	1.3+	1.2-
1999 01 12	747	0.1-	0.1+	2000 03 10	704	0.0	0.4-	2000 04 08	704	0.6-	0.2-
1999 01 14	699	0.1+	0.2+	2000 03 29	691	0.1+	0.0	2000 04 08	704	1.3+	1.1+
1999 01 14	699	0.8+	0.1+	2000 03 29	691	0.0	0.1+	2000 04 08	704	1.2+	0.1+
1999 01 14	699	0.9+	0.7-	2000 03 29	691	0.2+	0.0	2000 04 08	704	0.8+	1.2+
1999 01 15	691	0.6-	0.6-	2000 03 30	684	0.1-	1.2-	2000 04 10	704	0.4-	1.3+
1999 01 15	691	0.8-	0.4-	2000 03 30	684	0.1+	1.0-	2000 04 10	704	0.1-	0.1+
1999 01 15	691	0.7-	0.2-	2000 04 03	699	0.4-	0.5+	2000 04 10	704	0.2-	0.3-
1999 01 23	691	1.3-	0.2-	2000 04 03	699	0.0	0.1+	2000 04 10	704	0.5+	0.8-
1999 01 23	691	1.1-	0.5-	2000 04 03	699	0.1-	0.7+	2000 04 10	704	0.0	0.5-
1999 01 23	691	1.0-	0.5-	2000 04 03	699	0.2-	0.3+	2000 04 11	691	0.2-	0.5-
1999 02 05	327	0.7-	0.2+	2000 04 05	691	0.2-	0.3-	2000 04 11	691	0.2-	0.5-
1999 02 05	327	0.1-	0.0	2000 04 05	704	0.3+	0.5+	2000 04 11	691	0.1-	0.5-

(14557)* 1997 VG₈ = 1995 FM₂₁

Discovered 1997 Nov. 15 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 31117)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M		(2000.0)		P		Q	
n		0.19271762		ω		284.88228	
a		2.9683955		Ω		60.71778	
e		0.0704794		i		8.25242	
P		5.11		H		13.7	
				G		0.15	
				U		1	

Residuals in seconds of arc

1995 03 28	691	0.2-	0.2-	1999 01 09	426	1.3+	0.9+	2000 03 05	608	0.1+	0.8-
1995 03 28	691	0.6+	0.0	1999 01 09	426	0.5+	0.2+	2000 03 29	704	0.3+	0.8+
1995 03 28	691	0.5-	0.9-	1999 01 09	426	0.4-	0.5+	2000 03 29	704	1.3+	0.5+
1995 04 02	691	0.5-	0.2-	1999 01 11	426	0.2-	0.7+	2000 03 29	704	0.4+	0.2+
1995 04 02	691	0.7-	1.0-	1999 01 11	426	0.2+	0.5+	2000 03 29	704	1.0+	0.7+
1995 04 02	691	0.1-	0.4-	1999 01 11	426	0.2+	0.1-	2000 03 29	704	0.6+	0.1+
1997 11 03	704	0.0	1.2+	1999 01 22	699	1.3-	0.3-	2000 04 03	699	0.4+	0.5+
1997 11 03	704	0.2-	0.7-	1999 01 22	699	0.5+	0.2+	2000 04 03	699	0.5-	0.1+
1997 11 03	704	0.1+	0.6-	1999 01 22	699	0.3+	0.4+	2000 04 03	699	0.7-	0.7+
1997 11 03	704	0.6-	0.7-	1999 02 10	704	0.9-	1.6-	2000 04 03	699	0.2-	0.5+
1997 11 15	426	0.4+	0.3-	1999 02 10	704	1.2-	0.7+	2000 04 04	704	0.3+	1.0-
1997 11 15	426	0.1-	0.4+	1999 02 10	704	0.5-	0.6-	2000 04 04	704	1.0-	1.3+
1997 11 15	426	0.0	0.2-	1999 02 10	704	0.6+	1.2-	2000 04 04	704	0.4+	0.8+
1997 11 15	426	1.4-	0.2-	1999 02 10	704	(0.6-	2.3-)	2000 04 04	704	0.4-	0.3-
1997 11 18	426	0.0	0.5+	1999 02 13	704	(2.1+	0.9-)	2000 04 04	704	0.7+	0.1+
1997 11 18	426	1.1+	0.3-	1999 02 13	704	0.7+	0.2-	2000 04 08	704	0.5-	0.3-
1997 11 18	426	0.3+	0.3+	1999 02 13	704	(0.4-	2.1+)	2000 04 08	704	0.3-	0.5+
1997 11 27	426	1.0+	0.2-	1999 02 13	704	0.4+	0.6-	2000 04 08	704	0.6-	0.1-
1997 11 27	426	0.5-	0.7+	2000 03 05	608	0.0	1.0-	2000 04 08	704	0.0	0.5+
1997 11 27	426	0.2-	0.5+	2000 03 05	608	0.0	0.8-	2000 04 08	704	0.2+	0.1+

(14558)* 1997 WG₁ = 1982 UF₉ = 1998 XW₈₇

Discovered 1997 Nov. 19 by the Beijing Schmidt CCD Asteroid Program at

Xinglong.

Id. G. V. Williams (*MPC* 33704)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M		(2000.0)		P		Q	
n		0.19047637		ω		124.29296	
a		2.9916352		Ω		242.03523	
e		0.1134283		i		9.87790	
P		5.17		H		13.0	
				G		0.15	
				U		1	

Residuals in seconds of arc

1982 10 21	095	0.2+	0.4+	1997 12 12	327	0.4-	0.8-	1999 01 18	704	0.0	0.4+
1982 10 22	095	(0.9+	19.9+)	1997 12 17	327	0.9-	0.6+	1999 01 18	704	0.4-	0.5+
1996 06 12	566	0.6-	0.9+	1997 12 17	327	0.9-	0.3+	2000 02 07	704	0.2+	0.6-
1996 06 12	566	0.6-	1.0+	1997 12 17	327	0.1-	0.5+	2000 02 07	704	0.8-	1.9-
1996 06 12	566	0.6-	1.5+	1998 12 15	704	0.5-	1.1+	2000 02 07	704	0.3-	1.8-
1997 11 19	327	0.7+	0.4+	1998 12 15	704	0.6-	0.7+	2000 02 07	704	(2.5-	1.0-)
1997 11 19	327	0.4+	0.5+	1998 12 15	704	0.7+	0.2+	2000 03 09	704	0.3+	0.6+
1997 11 19	327	0.2+	0.1+	1998 12 15	704	1.1-	1.2-	2000 03 09	704	0.3-	0.1-
1997 11 21	327	0.6+	0.1+	1998 12 15	704	1.8+	0.1+	2000 03 09	704	0.8+	0.5+
1997 11 21	327	0.6+	0.1-	1998 12 22	704	0.3+	0.3+	2000 03 09	704	0.1-	0.2+
1997 11 21	327	0.2+	0.4+	1998 12 22	704	0.7+	0.1+	2000 03 09	704	1.0+	0.1+
1997 12 03	327	0.2+	0.2+	1998 12 22	704	1.6-	0.3+	2000 04 04	699	1.0+	0.6+
1997 12 03	327	0.6-	0.2+	1998 12 22	704	0.1-	0.6-	2000 04 04	699	0.1-	1.1+
1997 12 03	327	0.1-	0.3+	1998 12 22	704	0.6+	0.5+	2000 04 04	699	0.3-	0.8+
1997 12 12	327	0.1-	0.4+	1999 01 18	704	1.7-	0.2+	2000 04 04	699	1.4+	0.5+
1997 12 12	327	0.5+	0.2+	1999 01 18	704	0.2+	0.8+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	162.80256		(2000.0)		P		Q				
<i>n</i>	0.19180349	ω	101.78911		+0.94418726		−0.29157311				
<i>a</i>	2.9778196	Ω	275.30836		+0.20880427		+0.88965249				
<i>e</i>	0.1038875	<i>i</i>	8.85548		+0.25477673		+0.35143073				
<i>P</i>	5.14	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1989 03 02	809	0.1−	1.0−	1998 10 21	557	0.2+	1.0−	1999 01 18	704	1.1+	0.6−
1989 03 02	809	0.8−	0.3−	1998 10 21	557	0.2+	0.5−	1999 01 18	704	0.6−	1.3−
1989 03 02	809	1.3−	0.1−	1998 12 10	557	0.3+	0.1+	2000 02 04	557	0.2−	1.3+
1989 03 03	809	1.0+	0.4−	1998 12 10	557	0.0	0.1−	2000 02 04	557	0.7+	0.7+
1989 03 03	809	1.0+	0.5+	1998 12 22	704	0.1+	0.2−	2000 02 04	557	0.0	1.7+
1989 03 03	809	0.7−	0.9−	1998 12 22	704	0.5+	1.5+	2000 02 28	557	0.5−	0.1+
1997 11 29	557	0.2−	0.1+	1998 12 22	704	0.9−	0.6−	2000 02 28	557	0.3−	0.2−
1997 11 29	557	0.4−	0.0	1998 12 22	704	0.2+	0.3+	2000 03 25	557	0.3+	0.4−
1997 11 29	557	0.3+	0.4+	1998 12 24	557	0.2+	0.3+	2000 03 26	557	0.3+	0.5+
1997 12 05	557	0.6−	0.1−	1998 12 24	557	0.3−	0.2−	2000 04 02	557	0.3+	0.4+
1997 12 05	557	0.2−	0.4+	1999 01 06	557	0.1+	0.0	2000 04 02	557	0.2+	0.0
1997 12 30	557	0.7+	0.7+	1999 01 06	557	0.1−	0.1+	2000 04 02	557	0.1+	0.8+
1997 12 30	557	0.5+	0.6+	1999 01 06	557	0.1−	0.1−	2000 04 07	704	0.2+	0.8−
1997 12 30	557	0.7−	0.5+	1999 01 06	557	0.1−	0.2−	2000 04 07	704	0.4+	0.6+
1998 01 07	557	0.1−	0.7+	1999 01 18	704	0.4−	1.3+	2000 04 07	704	0.0	0.5−
1998 01 07	557	0.3−	0.7−	1999 01 18	704	0.3−	1.1+	2000 04 07	704	0.0	0.5−

(14560)* 1997 WB₃₃ = 1996 NG₃

Discovered 1997 Nov. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 31251)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	148.79380		(2000.0)		P		Q				
<i>n</i>	0.15826256	ω	168.90131		+0.83013031		−0.55603379				
<i>a</i>	3.3849370	Ω	224.96260		+0.50697449		+0.78359462				
<i>e</i>	0.1422393	<i>i</i>	3.35491		+0.23207874		+0.27713878				
<i>P</i>	6.23	<i>H</i>	13.4		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1996 07 14	809	0.2−	1.8+	1998 01 17	910	0.1−	0.2−	1999 02 12	704	1.0+	0.0
1996 07 14	809	1.4−	1.4+	1998 01 27	910	0.3−	0.3+	1999 02 12	704	0.4+	0.8+
1996 07 14	809	1.2−	1.5+	1998 01 27	910	0.4−	0.2+	1999 02 16	704	(2.4−	0.3−)
1996 07 16	809	0.3−	0.7+	1998 01 27	910	0.2−	0.2+	1999 02 16	704	0.4−	0.1−
1996 07 16	809	0.6+	1.7+	1998 02 23	327	0.2+	0.0	1999 02 16	704	0.3−	0.0
1996 07 16	809	0.4−	1.3+	1998 02 23	327	0.8+	0.1−	1999 02 16	704	1.0−	0.2+
1997 11 29	704	0.3+	0.4+	1998 02 23	327	0.2+	0.4+	2000 03 10	704	0.2−	0.2−
1997 11 29	704	0.0	1.0+	1998 02 27	327	0.3−	0.4+	2000 03 10	704	0.3−	0.5+
1997 11 29	704	0.2+	1.2+	1998 02 27	327	0.3−	0.6+	2000 03 10	704	0.0	0.1+
1997 11 29	704	0.9+	0.0	1998 02 27	327	0.0	0.4+	2000 03 10	704	0.3+	1.5+
1997 12 04	704	(2.1+	1.2+)	1998 03 01	327	0.4−	0.3+	2000 03 10	704	0.2−	0.1+
1997 12 04	704	0.7+	0.1+	1998 03 01	327	0.8−	0.4+	2000 04 01	691	0.2−	1.0+
1997 12 04	704	0.3−	0.9−	1998 03 01	327	0.2+	0.2+	2000 04 01	691	0.1−	0.4+
1997 12 04	704	1.0−	1.0+	1999 01 14	699	0.1+	0.7+	2000 04 01	691	0.1−	0.5+
1998 01 15	910	0.4−	0.0	1999 01 14	699	1.4+	0.4+	2000 04 06	699	1.7+	0.1+
1998 01 15	910	0.1−	0.2+	1999 01 14	699	0.7+	0.2−	2000 04 06	699	0.8+	1.6+
1998 01 15	910	0.2−	0.2+	1999 02 12	704	0.7+	1.5+	2000 04 06	699	0.3+	0.2+
1998 01 17	910	0.2−	0.3−	1999 02 12	704	0.3−	0.7+				
1998 01 17	910	0.1−	0.3−	1999 02 12	704	0.8−	0.5−				

(14561)* 1997 WC₃₄ = 4380 T-1

Discovered 1997 Nov. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 31252)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	186.27000		(2000.0)		P		Q		
<i>n</i>	0.16927470	ω	228.33180		+0.99954741		−0.00819311		
<i>a</i>	3.2364930	Ω	132.11611		+0.01841725		+0.92746160		
<i>e</i>	0.1364475	<i>i</i>	2.23632		−0.02378601		+0.37382863		
<i>P</i>	5.82	<i>H</i>	13.1		<i>G</i>	0.15	<i>U</i>	1	
Residuals in seconds of arc									
1971 03 24	675	(5.9+ 1.5−)	1997 12 05	704	0.9−	0.9+	2000 04 04	704	1.3+ 0.7+
1971 03 26	675	0.5− 1.1−	1998 01 15	910	0.6+	0.5+	2000 04 05	704	0.7+ 0.2−
1971 03 26	675	(0.0 3.3−)	1998 01 15	910	0.4+	0.4+	2000 04 05	704	0.4+ 0.1+
1971 03 27	675	0.0 0.2−	1998 01 15	910	0.6+	0.7+	2000 04 05	704	0.4+ 0.1+
1996 08 12	566	0.6− 0.0	1998 01 17	910	0.1+	0.9+	2000 04 05	704	0.2− 0.1+
1996 08 12	566	0.2− 0.7+	1998 01 17	910	0.1+	0.8+	2000 04 05	704	0.7+ 0.5+
1996 08 12	566	0.3+ 0.9+	1998 01 17	910	0.1−	0.9+	2000 04 06	704	0.2− 0.2+
1997 11 29	704	0.1− 0.5−	2000 03 08	704	1.1−	0.2+	2000 04 06	699	0.5+ 0.2−
1997 11 29	704	1.0− 1.5−	2000 03 08	704	1.0−	0.0	2000 04 06	704	0.8+ 0.1+
1997 11 29	704	(2.0+ 0.6+)	2000 03 08	704	0.4−	1.2+	2000 04 06	699	0.0 0.1−
1997 11 29	704	0.6+ 0.2+	2000 03 10	704	2.0+	0.3+	2000 04 06	704	0.3− 0.5+
1997 11 29	704	0.8− 0.7−	2000 03 10	704	0.4−	0.3+	2000 04 06	699	0.3+ 0.4+
1997 12 04	704	1.2+ 0.6−	2000 03 10	704	1.8−	1.2−	2000 04 06	704	0.1+ 0.6+
1997 12 04	704	0.4− 0.2+	2000 03 11	704	0.1+	0.9−	2000 04 06	704	0.4+ 0.5+
1997 12 04	704	(1.2+ 2.7+)	2000 03 11	704	0.1−	0.6+	2000 04 06	699	0.5− 0.2−
1997 12 04	704	0.7− 0.6+	2000 03 11	704	0.2+	0.4−	2000 04 10	704	0.1− 0.4−
1997 12 04	704	0.3− 0.9+	2000 03 11	704	1.2−	0.6−	2000 04 10	704	0.1+ 1.2+
1997 12 05	704	0.4− 0.3−	2000 04 04	704	0.1−	0.2+	2000 04 10	704	0.5+ 0.6−
1997 12 05	704	1.5+ 1.1−	2000 04 04	704	0.0	1.0+	2000 04 10	704	0.3+ 0.4−
1997 12 05	704	0.5− 0.2+	2000 04 04	704	0.6−	0.0			
1997 12 05	704	(3.1+ 1.6−)	2000 04 04	704	0.2+	0.5−			

(14562)* 1997 YQ₁₉ = 1991 RK₁₀ = 1995 HZ₁

Discovered 1997 Dec. 27 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 31259)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	195.70124		(2000.0)		P		Q				
<i>n</i>	0.17841618	ω	175.12036		+0.99884665		−0.03139136				
<i>a</i>	3.1249751	Ω	186.99528		+0.02730356		+0.99377547				
<i>e</i>	0.1802258	<i>i</i>	17.35644		+0.03949534		+0.10688731				
<i>P</i>	5.52	<i>H</i>	12.8		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1991 09 10	675	0.1−	0.1+	1999 02 12	704	(1.0−	2.5−)	2000 03 29	704	0.0	0.9+
1991 09 10	675	0.0	0.1−	1999 02 12	704	0.8−	0.3−	2000 04 02	699	0.2+	0.0
1991 09 16	675	0.8+	0.2−	1999 02 12	704	0.1−	1.0−	2000 04 02	699	0.5+	0.1+
1991 09 16	675	0.2+	0.7−	1999 02 16	704	0.1+	0.2+	2000 04 02	699	0.4+	0.3−
1995 04 24	691	0.1−	0.4−	1999 02 16	704	1.2+	0.6+	2000 04 02	699	0.1+	0.0
1995 04 24	691	0.2−	0.3+	1999 02 16	704	0.7−	1.5−	2000 04 04	704	0.5−	0.2−
1995 04 24	691	0.1−	0.4−	1999 02 16	704	0.5−	0.5−	2000 04 04	704	0.6+	0.9−
1995 04 29	691	0.9−	0.8−	1999 02 16	704	0.4−	0.0	2000 04 04	704	0.5+	0.3+
1995 04 29	691	0.4−	1.1−	2000 03 04	703	0.8+	0.4−	2000 04 08	704	0.0	0.3−
1995 04 29	691	0.1−	0.9−	2000 03 04	703	0.7−	0.2−	2000 04 08	704	0.8+	1.1+
1995 04 29	691	0.4−	0.9−	2000 03 04	703	0.2−	0.4−	2000 04 08	704	0.6+	0.7+
1997 12 27	327	0.3−	0.1+	2000 03 04	703	0.3−	0.3−	2000 04 08	704	1.0+	0.8+
1997 12 27	327	0.0	0.1−	2000 03 09	704	0.5−	0.3−	2000 04 10	704	0.1−	0.7+
1997 12 27	327	0.1+	0.2−	2000 03 09	704	0.0	0.1+	2000 04 10	704	0.7+	1.9+
1997 12 30	327	0.5−	0.1−	2000 03 09	704	0.9+	0.3+	2000 04 10	704	0.1−	0.5+
1997 12 30	327	0.0	0.3+	2000 03 09	704	0.7−	1.0+	2000 04 10	704	0.2−	0.1+
1997 12 30	327	0.2+	0.0	2000 03 09	704	0.7+	0.1−	2000 04 10	704	1.5−	0.2−
1998 01 26	327	0.2−	0.2−	2000 03 29	704	0.7+	0.7+	2000 04 11	608	0.9−	1.3−
1998 01 26	327	0.1−	0.5−	2000 03 29	704	0.3+	0.2+	2000 04 11	608	0.9−	1.2−
1998 01 26	327	0.3−	0.3−	2000 03 29	704	0.6+	0.2+	2000 04 11	608	1.0−	1.0−
1999 02 12	704	0.7+	0.6+	2000 03 29	704	1.1+	0.7+				

(14563)* 1998 AV₅ = 1989 TQ₈

Discovered 1998 Jan. 8 by the OCA-DLR Asteroid Survey at Caussols.

Id. A. Doppler (*MPC* 38462)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		135.30131		(2000.0)		P		Q	
<i>n</i>		0.29138887	ω	122.86042		-0.28305067		+0.95702930	
<i>a</i>		2.2533090	Ω	130.56558		-0.90537133		-0.24491457	
<i>e</i>		0.1886820	<i>i</i>	4.76204		-0.31652025		-0.15527967	
<i>P</i>		3.38	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 10 03	809	1.3+	0.9-	1998 01 26	566	0.6+	0.6-	1999 10 02	699	0.9+	0.7+
1989 10 03	809	0.9+	1.0-	1998 01 26	566	0.7+	0.4-	1999 10 02	704	0.2-	0.0
1989 10 03	809	0.3+	1.5-	1998 01 26	566	0.8+	0.7-	1999 10 02	704	1.0-	0.0
1989 10 07	809	0.4+	0.2-	1999 09 07	704	0.4+	0.5-	1999 10 02	704	1.5-	1.4-
1989 10 07	809	0.6-	0.3+	1999 09 07	704	0.0	0.7-	1999 10 07	704	0.5-	0.6-
1989 10 07	809	1.0-	0.5+	1999 09 07	704	0.1-	0.2+	1999 10 07	704	0.0	0.2+
1992 08 02	675	0.1+	0.3+	1999 09 07	704	0.1-	0.3-	1999 10 07	704	0.6-	0.5-
1992 08 02	675	0.6-	0.5+	1999 09 07	704	0.3+	0.0	1999 10 07	704	0.2-	0.3+
1997 12 08	910	1.6-	0.1+	1999 09 14	704	0.1+	0.1-	1999 10 07	704	0.7-	0.2-
1997 12 08	910	1.3-	0.2+	1999 09 14	704	0.1+	0.3-	1999 11 04	699	0.0	0.1+
1997 12 08	910	1.2-	0.3+	1999 09 14	704	0.2+	0.0	1999 11 04	699	1.0+	1.0+
1998 01 08	910	0.2+	0.4+	1999 09 14	704	0.1-	0.2-	1999 11 04	699	0.8+	1.5+
1998 01 08	910	0.1+	0.5+	1999 09 14	704	0.1+	0.0	1999 11 07	704	1.5+	1.0+
1998 01 08	910	0.2+	0.3+	1999 10 02	699	0.8-	0.2+	1999 11 07	704	0.2-	0.9+
1998 01 09	910	0.3+	0.3+	1999 10 02	699	0.4+	0.8+	1999 11 07	704	0.4+	0.6+
1998 01 09	910	0.0	0.4+	1999 10 02	704	0.2-	0.7+	1999 11 07	704	0.3+	0.5+
1998 01 09	910	0.1+	0.3+	1999 10 02	704	0.5-	0.5-				

(14564)* 1998 BX₁₃ = 1952 HK₁ = 1977 RC₁ = 1987 UJ₈ = 1997 WX₃₆

Discovered 1998 Jan. 26 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 32683), A. Doppler (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		272.73491		(2000.0)		P		Q	
<i>n</i>		0.20476231	ω	180.77985		+0.42787418		+0.90074881	
<i>a</i>		2.8508172	Ω	114.55553		-0.82881036		+0.42396981	
<i>e</i>		0.2241077	<i>i</i>	4.70884		-0.36055107		+0.09434611	
<i>P</i>		4.81	<i>H</i>	12.9		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1952 04 29	760(94.0+	82.1-)	X	1998 01 27	691	0.1+	0.5+	2000 03 08	704	0.1+	0.2+
1977 09 07	095	0.6-	0.3+	1998 01 27	691	0.2+	0.4+	2000 03 08	704	0.1+	0.4+
1987 10 23	095	1.2+	0.3-	1998 02 02	691	0.3-	0.7+	2000 03 08	704	0.0	1.9+
1996 07 22	566	0.0	0.1+	1998 02 02	691	0.5-	0.7+	2000 03 29	704	0.3+	0.1-
1996 07 22	566	0.0	0.1-	1998 02 02	691	0.2-	0.5+	2000 03 29	704	0.1-	0.6-
1996 07 22	566	0.6+	0.5+	1999 01 09	691	0.1-	0.4-	2000 03 29	704	0.3+	0.2-
1997 11 28	566	0.8-	0.3-	1999 01 09	691	0.3-	0.2-	2000 03 29	704	0.1-	0.7-
1997 11 28	566	0.3-	0.1+	1999 01 09	691	0.3-	0.3-	2000 03 29	704	0.0	0.4-
1997 11 28	566	0.3-	0.9+	1999 01 15	691	0.5-	0.4-	2000 04 04	704	0.0	0.8+
1997 11 29	704	0.9+	0.5-	1999 01 15	691	0.6-	0.4-	2000 04 04	704	0.0	0.2-
1997 11 29	704	0.3-	0.1+	1999 01 15	691	0.5-	0.3-	2000 04 04	704	0.6-	0.4-
1997 11 29	704	0.1-	0.1-	1999 01 16	691	1.3+	0.1-	2000 04 04	704	0.1+	0.5-
1997 11 29	704	0.0	0.0	1999 01 16	691	1.4+	0.4+	2000 04 04	704	0.2+	0.6-
1997 11 29	704	0.8+	0.7-	1999 01 16	691	1.3+	0.0	2000 04 08	704	0.2+	0.2-
1997 12 04	704	0.1+	0.8+	1999 01 19	704	0.3+	0.4+	2000 04 08	704	0.3-	0.6+
1997 12 04	704	0.9-	0.0	1999 01 19	704	0.4+	0.2-	2000 04 08	704	0.5-	0.2+
1997 12 04	704	0.4-	0.1+	1999 01 19	704	1.0+	0.6+	2000 04 08	704	0.1+	0.1+
1997 12 04	704	0.4+	0.1-	1999 01 19	704	(2.8-	2.0+)	2000 04 08	704	0.2-	0.3+
1997 12 04	704	0.8-	0.0	1999 02 10	704	1.2-	0.2+	2000 04 13	704	(1.4+	2.9+)
1998 01 26	691	0.4-	0.3-	1999 02 10	704	(3.4+	1.1+)	2000 04 13	704	0.5+	1.2+
1998 01 26	691	0.4-	0.1+	1999 02 10	704	(0.4-	2.1+)	2000 04 13	704	(2.2-	1.8+)
1998 01 26	691	0.4-	0.1+	1999 02 10	704	0.1-	1.5-	2000 04 13	704	(1.2+	2.7+)
1998 01 27	691	0.3+	0.4+	1999 02 10	704	0.4+	0.8-	2000 04 13	704	0.3-	1.2+

(14565)* 1998 EQ₁₀ = 1995 JK₁

Discovered 1998 Mar. 1 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 31744)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		63.48763		(2000.0)		P		Q	
<i>n</i>		0.28301879	ω	249.39946		+0.75855762		+0.64750242	
<i>a</i>		2.2975195	Ω	70.17187		-0.56520996		+0.70959322	
<i>e</i>		0.1842290	<i>i</i>	4.45147		-0.32423453		+0.27788140	
<i>P</i>		3.48	<i>H</i>	14.4		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 05 05	010	(2.6-	0.9+)	1998 03 25	704	0.1-	0.5-	1999 09 13	704	0.4-	0.3+
1995 05 05	010	0.9-	0.7+	1998 03 25	704	0.3-	1.6+	1999 09 30	704	0.4+	0.1-
1995 05 05	010	0.1-	0.4+	1998 03 25	704	0.2+	0.6+	1999 09 30	704	0.3+	0.5+
1995 05 08	010	0.6+	0.0	1998 03 25	704	0.7+	0.1-	1999 09 30	704	0.1+	1.1+
1995 05 08	010	0.1-	0.9+	1998 03 25	704	0.6-	0.2+	1999 09 30	704	0.7+	1.5+
1995 05 08	010	1.7+	1.9+	1998 03 25	566	0.0	0.2+	1999 09 30	704	0.7+	1.0+
1997 02 01	327	0.2-	0.9+	1998 03 25	566	0.2-	0.0	1999 11 10	704	0.1-	0.2+
1997 02 01	327	0.1+	0.5+	1998 03 25	566	0.0	0.1-	1999 11 10	704	0.0	0.3+
1997 02 01	327	0.2+	0.7+	1998 03 26	704	0.0	0.4+	1999 11 10	704	0.5-	1.2-
1998 02 25	566	0.1+	0.9+	1998 03 26	704	0.2-	0.9+	1999 11 10	704	0.2-	0.4-
1998 02 25	566	0.2+	0.6+	1998 03 26	704	0.3+	0.1+	1999 11 10	704	0.4-	0.8-
1998 02 25	566	0.0	0.4+	1999 07 16	704	0.2-	0.1+	1999 12 02	704	0.9-	0.5+
1998 03 01	809	(1.1+	3.2+)	1999 07 16	704	0.4-	0.3-	1999 12 02	704	0.7-	0.6+
1998 03 01	809	(0.1+	2.4+)	1999 07 16	704	0.4+	0.9-	1999 12 02	704	0.2-	0.1+
1998 03 01	809	(0.9+	2.7+)	1999 07 16	704	0.1+	0.5-	1999 12 02	704	0.9-	1.5+
1998 03 02	809	(0.6-	3.4+)	1999 09 07	699	0.3+	0.2+	1999 12 03	704	0.5+	0.0
1998 03 02	809	(0.6-	3.2+)	1999 09 07	699	0.1-	0.6+	1999 12 03	704	0.5-	0.7+
1998 03 02	809	(1.8-	3.6+)	1999 09 07	699	0.4+	0.4+	1999 12 03	704	1.1-	1.4-
1998 03 24	704	0.1-	1.3+	1999 09 13	704	0.4-	0.5+	1999 12 03	704	0.6-	0.4+
1998 03 24	704	0.8+	0.6-	1999 09 13	704	0.5-	0.2+	1999 12 31	699	0.0	1.4+
1998 03 24	704	0.8+	0.6-	1999 09 13	704	0.2-	0.3-	1999 12 31	699	0.2+	1.5+
1998 03 24	704	0.7+	0.7-	1999 09 13	704	0.3-	0.1+	1999 12 31	699	0.0	0.4-

(14566)* 1998 MY₇

Discovered 1998 June 19 by the Lowell Observatory Near-Earth Object Search

at the Anderson Mesa Station.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		135.81595		(2000.0)		P		Q	
<i>n</i>		0.23416998	ω	60.79877		+0.71301358		+0.67830088	
<i>a</i>		2.6068452	Ω	255.86350		-0.68992990		+0.63362169	
<i>e</i>		0.2548063	<i>i</i>	10.54932		-0.12493340		+0.37206380	
<i>P</i>		4.21	<i>H</i>	13.8		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 10 16	675	1.1-	0.2+	1998 08 22	566	0.4-	1.1-	1998 10 22	327	0.5+	0.6-
1990 10 16	675	0.7+	0.8-	1998 08 24	704	0.5+	0.5+	1998 10 22	327	0.3-	0.2-
1993 03 18	413	0.7-	1.1-	1998 08 24	704	1.1+	0.2-	1998 10 22	327	(2.5-	0.2+)
1993 03 18	413	0.2-	0.2-	1998 08 24	704	(3.5+	0.1+)	1998 12 09	704	(2.3+	0.9-)
1993 04 20	413	0.4-	0.1-	1998 08 24	704	0.8+	1.1+	1998 12 09	704	(0.1-	2.5-)
1993 04 20	413	1.2+	0.5-	1998 08 24	704	0.2-	0.7+	1998 12 09	704	0.5+	1.1-
1995 12 28	675	0.9-	0.1+	1998 08 27	704	(2.1+	0.5+)	1998 10 22	704	0.9+	0.6-
1995 12 28	675	1.6+	0.7+	1998 08 27	704	(3.2-	2.0+)	1999 10 22	704	1.1+	0.9-
1998 06 19	699	0.0	0.1+	1998 08 27	704	(1.5-	4.5-)	1999 10 22	704	0.9+	0.9-
1998 06 19	699	0.3-	0.2-	1998 08 27	704	0.0	0.0	1999 10 22	704	0.3+	0.6-
1998 06 19	699	0.7-	0.0	1998 08 27	704	0.7+	1.9-	1999 10 22	704	1.7+	0.4-
1998 06 25	699	0.7-	0.2+	1998 08 27	704	0.3+	0.9+	1999 11 17	704	0.1+	0.2+
1998 06 25	699	0.6-	0.2+	1998 08 27	704	0.8+	0.4+	1999 11 17	704	0.9-	0.7+
1998 06 25	699	0.4-	0.3+	1998 08 27	704	0.0	0.1-	1999 11 17	704	0.2-	0.1-
1998 06 30	704	0.2-	0.2-	1998 08 27	704	0.3+	1.4+	1999 11 17	704	0.1+	0.5+
1998 06 30	704	1.4-	0.4-	1998 09 18	699	0.1-	0.6+	1999 11 17	704	1.3-	0.1-
1998 06 30	704	1.1-	0.2+	1998 09 18	699	0.0	0.8+	2000 02 02	704	0.9-	0.5+
1998 06 30	704	0.3+	1.4+	1998 09 18	699	0.2+	0.8+	2000 02 02	704	0.3-	0.8+
1998 06 30	704	(2.1-	1.7+)	1998 10 14	327	0.1+	0.4-	2000 02 02	704	0.7-	1.3+

1998 08 22 566 0.5- 1.0- 1998 10 14 327 0.2+ 0.4- 2000 02 02 704 0.3- 1.3+
 1998 08 22 566 0.7- 1.4- 1998 10 14 327 0.2+ 0.3-

(14567)* 1998 MQ₈ = 1977 FN₂ = 1985 UN₆

Discovered 1998 June 19 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 37693)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	168.88048	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.28718937	<i>ω</i>	75.27393	+0.01253290	+0.99952338
<i>a</i>	2.2752222	<i>Ω</i>	195.52679	-0.95317639	+0.00341644
<i>e</i>	0.1084134	<i>i</i>	6.04974	-0.30215508	+0.03068112
<i>P</i>	3.43	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1977 03 26	095	0.5+	0.9+	1999 10 15	704	1.0+	0.9-	1999 11 17	704	0.2-	0.9+
1985 10 18	095	0.2-	0.9-	1999 10 15	704	0.8+	0.0	1999 12 03	699	0.5+	1.0+
1998 05 22	704	0.1+	0.7+	1999 10 15	704	0.7+	0.1-	1999 12 03	699	0.1-	0.0
1998 05 22	704	(1.2+	3.5+)	1999 10 21	704	0.3+	0.0	1999 12 03	699	0.4+	0.6+
1998 05 22	704	0.0	0.6+	1999 10 21	704	0.5-	0.6+	1999 12 05	703	0.3-	0.3+
1998 05 22	704	0.2-	0.7+	1999 10 21	704	(2.2+	1.1+)	1999 12 05	703	0.1-	0.2+
1998 05 22	704	0.4+	0.9+	1999 10 21	704	0.4+	0.6-	1999 12 05	703	0.1-	0.6+
1998 05 26	704	1.1+	0.2+	1999 10 21	704	0.6+	0.9+	1999 12 05	703	0.0	0.5+
1998 05 26	704	0.4-	0.5+	1999 10 30	703	0.0	0.2+	1999 12 06	704	0.6+	1.1+
1998 05 26	704	0.2+	0.0	1999 10 30	703	0.4-	0.6+	1999 12 06	704	0.0	0.6+
1998 06 19	704	0.2-	0.3+	1999 10 30	703	0.7-	0.5+	1999 12 06	704	0.2-	0.1-
1998 06 19	704	0.0	0.5-	1999 10 30	703	0.1+	0.2+	1999 12 06	704	0.6+	0.9-
1998 06 19	704	0.2-	0.4+	1999 11 04	704	0.1+	0.2+	1999 12 13	699	1.1-	0.7+
1998 06 19	704	0.2-	0.3-	1999 11 04	704	0.1+	0.5-	1999 12 13	699	1.2-	1.6+
1998 06 19	704	0.6+	1.6-	1999 11 04	704	0.2+	0.4-	1999 12 13	699	0.8-	0.7+
1998 06 25	704	0.6-	0.8+	1999 11 04	704	0.1-	0.6-	1999 12 14	704	0.4-	0.5+
1998 06 25	704	0.1+	0.6+	1999 11 04	704	0.6-	0.5-	1999 12 14	704	0.2-	0.7-
1998 06 25	704	0.2+	1.1+	1999 11 17	704	(2.5-	0.2-)	1999 12 14	704	0.1-	0.5-
1998 06 25	704	0.8-	1.3+	1999 11 17	704	0.1+	0.0	1999 12 14	704	0.0	0.2-
1999 10 15	704	0.7+	0.3+	1999 11 17	704	0.2-	0.4+	1999 12 14	704	0.2-	0.3+

(14568)* 1998 OK

Discovered 1998 July 19 by A. Boattini and M. Tombelli at San Marcello
 Pistoiese.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	191.36716	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26636734	<i>ω</i>	87.14898	+0.06012996	+0.99810973
<i>a</i>	2.3922987	<i>Ω</i>	186.34031	-0.95543363	+0.05386510
<i>e</i>	0.0958936	<i>i</i>	6.60500	-0.28901725	+0.02958913
<i>P</i>	3.70	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1991 09 09	675	1.5-	0.7-	1998 07 26	699	0.0	0.3+	1998 09 15	699	0.1-	0.6-
1991 09 09	675	1.8+	0.2+	1998 07 26	699	0.4+	0.5+	1998 09 15	699	1.0-	0.2+
1997 04 28	704	0.4-	0.4+	1998 07 26	104	0.1+	0.1-	1998 10 12	699	1.0-	0.1+
1997 04 28	704	0.8+	0.7-	1998 07 26	104	0.1+	0.0	1998 10 12	699	0.3-	0.2+
1997 04 28	704	0.2+	1.0+	1998 07 26	104	0.2+	0.1-	1998 10 12	699	0.1+	0.4+
1997 04 28	704	0.7+	0.3-	1998 07 26	104	0.3+	0.4-	1998 12 06	108	0.2-	0.5-
1997 04 28	704	1.4-	0.5-	1998 07 30	104	0.2+	0.4+	1999 12 06	108	(2.7+	0.8-)
1997 04 28	704	0.4+	0.1-	1998 07 30	104	0.1+	0.1+	1999 12 07	108	1.0+	1.1-
1997 04 28	704	0.5-	0.1+	1998 07 30	104	0.1-	0.3+	1999 12 14	704	0.5-	0.2-
1997 04 28	704	0.9+	0.4-	1998 07 30	104	0.2-	0.2+	1999 12 14	704	0.3-	0.2-
1997 04 28	704	(3.0-	0.2-)	1998 07 30	104	0.1-	0.3+	1999 12 14	704	0.0	0.5-
1997 04 28	704	1.2-	0.4+	1998 08 13	104	0.8-	0.4-	1999 12 14	704	0.6-	1.3-
1998 06 19	699	1.0+	0.5+	1998 08 13	104	0.4-	0.3-	1999 12 14	704	0.3+	0.4-
1998 06 19	699	0.4-	0.3-	1998 08 13	104	0.4-	0.2-	1999 12 30	104	0.9+	0.1-
1998 06 19	699	0.2-	0.6-	1998 08 13	104	0.0	0.4-	1999 12 30	104	1.3+	1.2+
1998 07 19	104	0.5+	0.7-	1998 08 13	104	0.0	0.2-	1999 12 30	104	0.1+	1.1+
1998 07 19	104	0.8+	0.2+	1998 08 15	108	1.0-	1.6+	2000 01 07	704	0.4-	0.4+
1998 07 19	104	0.2+	0.0	1998 08 15	108	(1.3+	2.4+)	2000 01 07	704	0.5-	0.1-

1998 07 19	104	1.5-	0.4-	1998 08 15	108	1.0+	0.9-	2000 01 07	704	0.1-	0.5+
1998 07 19	104	0.4+	0.3+	1998 08 17	704	0.3-	0.4-	2000 01 07	704	0.4-	0.2+
1998 07 19	104	1.7+	0.5+	1998 08 17	704	0.1-	0.5+	2000 01 07	704	0.5-	0.5+
1998 07 20	104	0.2+	0.0	1998 08 17	704	0.1-	0.3+	2000 01 11	704	0.5-	0.3+
1998 07 20	104	0.9+	0.2-	1998 08 17	704	0.0	0.1-	2000 01 11	704	0.1-	0.1-
1998 07 21	104	0.6+	0.3+	1998 08 17	704	0.4+	0.0	2000 01 11	704	0.4-	0.2+
1998 07 21	104	0.1-	0.3+	1998 08 30	699	0.3-	0.1+	2000 01 11	704	0.9-	0.5-
1998 07 21	104	0.0	0.5+	1998 08 30	699	0.9-	0.5+	2000 03 05	704	1.3+	0.4-
1998 07 21	104	0.0	0.5-	1998 08 30	699	0.3-	0.3+	2000 03 05	704	0.7+	0.6+
1998 07 22	104	0.1-	0.3-	1998 09 10	108	0.6-	1.2-	2000 03 05	704	0.2+	1.2+
1998 07 22	104	0.7+	0.2-	1998 09 10	108	0.1+	1.5+	2000 03 05	704	0.3+	0.2+
1998 07 22	104	1.0+	0.3-	1998 09 10	108	1.0-	0.2+	2000 03 05	704	0.3+	0.8-
1998 07 22	104	0.9+	0.6-	1998 09 10	108	0.4-	1.3-				
1998 07 26	699	0.3-	0.7+	1998 09 15	699	0.2-	0.0				

(14569)* 1998 QB₃₂ = 1999 XK₂₀₈

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 37717)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	39.63285	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.12436154	<i>ω</i>	37.87102	+0.91054277	-0.41093473
<i>a</i>	3.9750750	<i>Ω</i>	346.17850	+0.31779430	+0.76569529
<i>e</i>	0.2865965	<i>i</i>	10.91022	+0.26442136	+0.49481651
<i>P</i>	7.93	<i>H</i>	12.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1974 06 17	413	0.6-	0.1-	1998 10 12	699	0.6+	0.2-	1999 10 14	704	0.9-	0.6+
1974 06 17	413	1.0+	0.4-	1998 10 12	699	0.5-	0.0	1999 10 14	704	0.3-	0.9-
1993 03 22	675	0.9-	0.4+	1998 10 12	699	0.2+	0.2-	1999 10 14	704	0.3-	0.4-
1993 03 22	675	0.6+	0.2+	1998 10 26	910	0.0	1.1-	1999 11 01	704	0.0	0.4-
1998 07 31	699	0.0	0.7-	1998 10 26	910	0.1-	0.8-	1999 11 01	704	0.2-	0.6-
1998 07 31	699	0.0	0.2-	1998 10 26	910	0.2-	0.2+	1999 11 01	704	0.5-	0.5-
1998 07 31	699	0.8-	0.3+	1998 11 08	910	1.0-	0.8-	1999 11 01	704	0.5-	0.7-
1998 08 17	704	0.1-	0.2-	1998 11 08	910	0.7-	0.5-	1999 11 01	704	1.3-	0.6-
1998 08 17	704	0.4+	0.5+	1998 11 08	910	0.8-	0.5-	1999 12 13	704	0.2+	0.4+
1998 08 17	704	0.4-	0.4+	1998 11 12	910	0.4-	0.4-	1999 12 13	704	0.2+	0.1+
1998 08 17	704	0.5-	0.0	1998 11 12	910	0.1+	0.6-	1999 12 13	704	0.3+	0.0
1998 08 17	704	0.1+	0.7+	1998 11 12	910	0.3-	0.4-	1999 12 13	704	0.2+	0.3-
1998 08 23	704	0.9+	0.9+	1998 12 09	704	(2.5+	1.1-)	1999 12 13	704	0.4+	0.5-
1998 08 23	704	0.2-	1.0+	1998 12 09	699	1.0+	0.2-	1999 12 15	704	0.2+	0.4+
1998 08 23	704	0.0	1.3+	1998 12 09	704	0.8+	1.0-	1999 12 15	704	0.1+	0.4+
1998 08 23	704	0.6+	0.6+	1998 12 09	704	1.5+	1.0-	1999 12 15	704	0.0	0.0
1998 08 23	704	0.9-	0.7+	1998 12 09	699	(2.1+	1.1-)	1999 12 15	704	0.4+	0.1-
1998 09 14	704	0.1+	0.7-	1998 12 09	704	0.7+	1.9+	2000 01 02	704	0.4+	0.0
1998 09 14	704	0.3-	0.3+	1998 12 09	704	0.2+	1.4+	2000 01 02	704	0.4+	0.2-
1998 09 14	704	0.3-	0.6+	1998 12 09	699	(1.4+	2.2-)	2000 01 02	704	0.7+	0.1-
1998 09 14	704	0.5-	1.1+	1999 01 10	699	0.7-	1.0-	2000 01 02	704	0.9+	0.0
1998 09 18	704	0.4+	0.7-	1999 01 10	699	0.9-	0.0	2000 01 02	704	0.3+	0.3-
1998 09 18	704	(0.9+	2.3-)	1999 01 10	699	0.5+	0.7-	2000 01 29	704	(1.4+	2.7+)
1998 09 18	704	0.0	0.7-	1999 09 27	704	0.6-	0.4+	2000 01 29	704	1.0+	1.1+
1998 09 18	704	0.3+	0.1+	1999 09 27	704	0.2+	0.7+	2000 01 29	704	0.1+	0.3+
1998 09 18	704	0.4-	0.3-	1999 09 27	704	1.0-	0.7+	2000 01 29	704	0.7-	1.3+
1998 09 21	699	0.4-	0.2+	1999 09 27	704	0.6+	1.0+				

2000 APR. 18

M.P.C. 39867

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.70212		(2000.0)	P	Q
<i>n</i>	0.29062937	ω	165.87092	+0.65027588	-0.75909055
<i>a</i>	2.2572329	Ω	243.55719	+0.69367364	+0.60959111
<i>e</i>	0.1255815	<i>i</i>	1.94427	+0.30977114	+0.22842990
<i>P</i>	3.39	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1987 06 02	413	(4.6- 1.7-)	1998 09 14	704	1.0+	0.7+	2000 02 29	704	0.3-	0.7+
1987 06 02	413	0.8- 2.4-	1998 09 14	704	1.0+	0.2+	2000 03 03	704	0.4-	0.3+
1994 06 08	809	(2.4+ 1.9+)	1998 09 14	704	1.0+	0.9-	2000 03 03	704	0.1-	0.4+
1994 06 08	809	0.5+ 1.7+	1998 09 14	704	0.3+	0.3+	2000 03 03	704	0.4-	0.1+
1994 06 08	809	0.9+ 1.3+	1998 09 14	699	0.8+	0.8+	2000 03 03	704	0.1-	0.2-
1994 06 09	809	0.1+ 0.6+	1998 09 14	699	0.6+	0.7+	2000 03 03	704	0.3-	0.3-
1994 06 09	809	0.0 0.5-	1998 09 14	699	0.7+	0.8+	2000 03 08	704	0.4+	0.0
1994 06 09	809	1.1- 1.4-	1998 09 18	704	1.4+	0.9-	2000 03 08	704	0.5-	0.6+
1998 08 17	704	1.0- 0.8+	1998 09 18	704	1.7+	0.8-	2000 03 08	704	0.2-	0.7-
1998 08 17	704	0.6- 0.8+	1998 09 18	704	0.2+	1.1-	2000 03 08	704	1.0-	1.0-
1998 08 17	704	(0.4- 2.1+)	1998 09 18	704	0.3+	0.5-	2000 03 08	704	(3.1- 2.3-)	
1998 08 17	704	0.2+ 0.8+	2000 02 02	704	0.2-	0.2-	2000 03 11	704	0.0	0.2+
1998 08 17	704	1.5- 0.6-	2000 02 02	704	0.9+	1.2+	2000 03 11	704	0.2+	0.1+
1998 08 23	704	0.1- 1.0+	2000 02 02	704	0.2-	0.1+	2000 03 11	704	0.3-	0.3+
1998 08 23	704	1.3- 0.0	2000 02 02	704	0.5+	1.0+	2000 03 11	704	0.1-	0.0
1998 08 23	704	(0.2- 3.2+)	2000 02 02	704	0.9+	0.5+	2000 03 11	699	0.1-	0.2+
1998 08 23	704	1.9- 1.9+	2000 02 08	704	0.2+	0.2-	2000 03 11	699	0.3-	0.6+
1998 08 26	699	0.5+ 1.9-	2000 02 08	704	0.0	0.6-	2000 03 11	699	0.1-	0.4+
1998 08 26	699	1.6- 0.2+	2000 02 08	704	0.6-	0.3+	2000 03 11	699	1.1+	0.1+
1998 08 26	699	0.7- 0.3+	2000 02 08	704	0.9+	0.3-	2000 04 07	608	0.3+	0.9-
1998 08 28	691	0.8- 0.0	2000 02 08	704	0.1-	0.9+	2000 04 07	608	0.3+	0.6-
1998 08 28	691	0.9- 0.2+	2000 02 29	704	0.3+	0.1+	2000 04 07	608	0.0	0.1-
1998 08 28	691	0.9- 0.0	2000 02 29	704	0.4+	0.0				
1998 09 14	704	0.4+ 0.5-	2000 02 29	704	0.4+	0.5+				

(14571)* 1998 QC₄₅ = 1990 UX₁₀ = 2000 CY₁₉

Discovered 1998 Aug. 17 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 38480)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	103.06433		(2000.0)	P	Q
<i>n</i>	0.23621355	ω	143.92404	+0.94129171	-0.32865706
<i>a</i>	2.5917882	Ω	235.44099	+0.28362445	+0.89384918
<i>e</i>	0.1559453	<i>i</i>	5.37645	+0.18310405	+0.30498881
<i>P</i>	4.17	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1990 10 26	898	(0.6- 3.1-)	1998 09 14	704	0.1+	0.0	2000 01 05	704	1.3+	0.4+
1990 10 26	898	0.0 0.4+	1998 09 14	704	0.0	0.3+	2000 01 05	704	0.1-	0.4-
1990 10 26	898	(4.5- 1.0-)	1998 09 14	704	0.2-	0.2+	2000 01 05	699	0.3-	0.3-
1993 05 23	809	0.8+ 0.1-	1998 09 14	704	0.3-	0.5+	2000 01 05	704	0.0	0.7+
1993 05 23	809	0.1+ 0.0	1998 09 14	704	0.3+	0.5+	2000 01 05	699	0.6+	0.5+
1993 05 23	809	1.2- 0.2-	1998 09 16	699	0.3+	0.1-	2000 01 05	699	0.0	1.9-
1998 08 17	704	0.0 0.0	1998 09 16	699	0.2+	0.2-	2000 01 07	704	(0.4- 2.7-)	
1998 08 17	704	0.4+ 0.5-	1998 09 16	699	0.0	0.2-	2000 01 07	704	1.5-	1.3-
1998 08 17	704	0.3+ 0.2-	1998 09 18	704	0.2+	0.7-	2000 01 07	704	0.0	0.6-
1998 08 17	704	0.0 0.0	1998 09 18	704	(2.1- 0.2-)		2000 01 07	704	0.6-	1.0+
1998 08 17	704	0.0 1.3+	1998 09 18	704	0.3-	0.5-	2000 02 02	704	0.0	0.0
1998 08 23	704	1.0+ 1.0-	1998 09 18	704	0.7-	1.1-	2000 02 02	704	0.2+	0.2+
1998 08 23	704	0.3- 0.2+	1998 09 18	704	0.9-	0.3-	2000 02 02	704	0.3+	0.0
1998 08 23	704	0.0 0.6-	1998 10 11	699	0.4-	0.6-	2000 02 02	704	0.1+	0.3+
1998 08 23	704	0.7+ 0.2-	1998 10 11	699	0.6-	0.7-	2000 02 02	704	0.2-	0.1+
1998 08 23	704	0.3- 0.3+	1998 10 11	699	0.4-	0.1-	2000 02 04	704	0.1+	0.3-
1998 08 27	704	0.5+ 0.6-	1998 11 15	699	0.6-	0.3+	2000 02 04	704	0.3+	0.1-
1998 08 27	704	0.6+ 0.8+	1998 11 15	699	0.4+	0.8+	2000 02 04	704	0.4-	1.4-
1998 08 27	704	1.2- 0.7+	1998 11 15	699	0.5-	0.4-	2000 02 04	704	0.1-	0.0
1998 08 27	704	0.2- 0.2-	1999 11 17	704	1.2-	0.1-	2000 02 27	703	0.6+	0.6+

1998 08 27	704	1.0-	0.5-	1999 11 17	704	0.7-	0.6-	2000 02 27	703	0.4-	0.2+
1998 08 30	699	0.6+	1.0+	1999 11 17	704	0.4+	0.8+	2000 02 27	703	0.0	0.1-
1998 08 30	699	1.7+	0.6+	1999 11 17	704	0.2-	0.1-	2000 02 27	703	0.7+	0.1-
1998 08 30	699	0.8+	0.7+	2000 01 05	704	0.2+	1.3+				

(14572)* 1998 QX₅₄ = 1981 UT₂₁

Discovered 1998 Aug. 27 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 32977)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.35341		(2000.0)	P	Q
<i>n</i>	0.28648105	ω	248.34936	+0.16745536	-0.98548843
<i>a</i>	2.2789709	Ω	192.11045	+0.94639602	+0.16857729
<i>e</i>	0.1052912	<i>i</i>	7.60678	+0.27621238	+0.01985591
<i>P</i>	3.44	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 10 24	675	0.2-	1.2-	1998 10 14	704	0.1-	1.4+	2000 03 11	704	0.6-	0.1+
1981 10 25	675	0.6+	0.3-	1998 10 14	699	0.2-	1.1+	2000 03 26	699	0.5-	0.3+
1981 10 26	675	0.2-	0.4-	1998 10 14	704	0.1+	0.0	2000 03 26	699	0.4-	0.4+
1991 09 14	691	0.0	0.3+	1998 10 14	699	0.2-	1.2+	2000 03 26	699	0.4-	0.6+
1991 09 14	691	0.0	0.1+	1998 10 15	704	0.1-	1.0+	2000 03 26	699	0.2-	0.6+
1991 09 14	691	0.0	0.2+	1998 10 15	704	0.6+	0.4+	2000 04 04	704	0.7+	0.9+
1998 08 27	699	0.3+	0.8+	1998 10 15	704	0.2+	1.1+	2000 04 04	704	0.8+	0.7+
1998 08 27	699	0.4+	0.4-	1998 10 15	704	0.1-	0.8+	2000 04 04	704	0.3-	1.1+
1998 08 27	699	0.1+	1.0+	1998 10 24	691	1.0-	1.8+	2000 04 04	704	(2.7-	2.4+)
1998 08 28	699	0.7+	0.1+	1998 10 24	691	0.1-	0.2-	2000 04 05	704	0.0	0.1+
1998 08 28	699	0.9+	0.3-	1998 10 24	691	0.1-	0.1-	2000 04 05	704	0.2+	0.2+
1998 08 28	699	0.8+	0.7+	1998 10 28	691	0.2-	0.0	2000 04 05	704	0.1-	0.0
1998 08 31	704	(2.1+	0.1+)	1998 10 28	704	(1.3+	2.3-)	2000 04 05	704	0.2+	0.3-
1998 08 31	704	0.5+	1.6-	1998 10 28	691	0.0	0.1-	2000 04 05	704	0.2+	0.4-
1998 08 31	704	0.3-	0.2-	1998 10 28	704	1.1-	0.0	2000 04 06	704	0.3+	0.3+
1998 08 31	704	(4.3-	0.4+)	1998 10 28	691	0.0	0.0	2000 04 06	704	0.3+	0.2+
1998 09 14	704	0.2-	0.4+	1998 10 28	704	(0.9+	2.2-)	2000 04 06	704	0.1+	0.1-
1998 09 14	704	0.8-	0.2+	1998 10 28	704	1.0-	0.5+	2000 04 06	704	0.3-	0.1-
1998 09 14	704	0.4+	0.0	1998 10 28	704	0.2+	0.0	2000 04 07	704	0.0	0.4-
1998 09 15	699	1.4-	0.4+	1998 11 11	699	0.4+	1.1+	2000 04 07	704	0.5+	1.2+
1998 09 15	699	0.9-	0.4+	1998 11 11	699	0.1-	1.3-	2000 04 07	704	0.5+	0.1-
1998 09 15	699	1.0-	0.5+	1998 11 11	699	1.0+	0.9-	2000 04 07	699	0.1-	0.2+
1998 09 18	704	0.2+	0.8+	2000 03 03	703	0.5+	0.7+	2000 04 07	704	0.1-	0.8-
1998 09 18	704	0.7-	0.6-	2000 03 03	703	0.7-	0.2+	2000 04 07	699	0.1-	0.1+
1998 09 18	704	1.0-	0.2+	2000 03 03	703	0.1-	0.4+	2000 04 07	704	0.1-	0.7-
1998 09 18	704	0.3+	0.5+	2000 03 03	703	0.3-	0.1+	2000 04 07	699	0.2+	0.4+
1998 09 18	704	1.9+	0.4-	2000 03 09	704	0.4+	0.3+	2000 04 07	699	0.1+	0.0
1998 09 26	704	1.7-	1.4-	2000 03 09	704	0.3+	0.5+	2000 04 08	704	0.4+	0.4-
1998 09 26	704	1.5-	0.1-	2000 03 09	704	0.3+	0.5+	2000 04 08	704	0.5-	0.5-
1998 09 26	704	0.1+	0.3-	2000 03 09	704	0.1-	0.9+	2000 04 08	704	0.4+	0.1-
1998 09 26	704	0.2+	0.1-	2000 03 09	704	0.2+	0.3+	2000 04 08	704	1.0+	0.7+
1998 09 26	704	0.7+	0.1-	2000 03 10	704	0.0	0.2+	2000 04 08	704	0.0	0.3-
1998 09 27	704	0.4+	0.2+	2000 03 10	704	0.1+	0.7+	2000 04 08	704	1.4+	0.5+
1998 09 27	704	0.2-	0.7+	2000 03 10	704	0.2+	0.5+	2000 04 08	704	0.4-	0.1-
1998 09 27	704	0.4+	0.3+	2000 03 10	704	0.1-	0.5+	2000 04 08	704	0.0	0.1+
1998 09 27	704	0.6+	0.5-	2000 03 10	704	0.1-	0.3+	2000 04 08	704	0.4+	0.9+
1998 09 27	704	0.1-	0.2-	2000 03 11	704	0.3+	0.3+	2000 04 11	608	0.7-	1.8-
1998 10 14	704	0.0	0.3+	2000 03 11	704	0.2-	0.0	2000 04 11	608	0.9-	1.6-
1998 10 14	704	0.3+	1.3-	2000 03 11	704	0.0	0.3+	2000 04 11	608	0.7-	1.5-
1998 10 14	699	0.7+	0.2+	2000 03 11	704	0.2-	0.0				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	110.49061		(2000.0)	P	Q
<i>n</i>	0.28043665	ω	222.13539	+0.59362269	-0.80451228
<i>a</i>	2.3116010	Ω	191.49479	+0.76176134	+0.56948417
<i>e</i>	0.1489821	<i>i</i>	5.55476	+0.25948364	+0.16866467
<i>P</i>	3.51	<i>H</i>	15.3	<i>G</i>	0.15

Residuals in seconds of arc

1993 03 19	809	0.2+	1.7+	1998 09 27	704	(0.1+	2.2-)	2000 03 10	704	0.4-	0.3+
1993 03 20	809	0.8+	1.2+	1998 09 27	704	0.5-	0.1+	2000 03 10	704	0.2-	0.0
1997 05 31	691	0.1+	1.1+	1998 09 27	704	0.8-	0.7+	2000 03 10	704	0.7+	1.5+
1997 05 31	691	0.6+	0.3+	1998 09 27	704	0.3-	0.4+	2000 03 10	704	0.2+	0.9-
1997 05 31	691	1.2-	0.7-	1998 09 27	704	0.6-	0.1-	2000 03 11	704	0.1-	1.4+
1997 06 11	691	0.4+	0.3+	1998 10 14	704	0.0	0.5-	2000 03 11	704	0.6-	0.4+
1997 06 11	691	0.0	0.2+	1998 10 14	704	1.0+	0.2+	2000 03 11	704	0.1-	0.0
1997 06 11	691	0.2+	0.7+	1998 10 14	704	0.6-	0.4+	2000 03 11	704	1.1-	0.2-
1998 08 27	699	0.1-	0.6-	1998 10 14	704	1.0-	0.6-	2000 03 11	704	0.7-	0.2-
1998 08 27	699	0.8+	0.1-	1998 10 14	699	0.2+	0.2+	2000 03 26	699	0.2-	0.5+
1998 08 27	699	0.6+	0.9+	1998 10 14	699	0.8+	0.0	2000 03 26	699	0.4-	0.5+
1998 08 28	699	0.4+	0.3+	1998 10 14	699	0.3+	0.1+	2000 03 26	699	0.1-	0.6+
1998 08 28	699	0.1-	0.6+	1998 10 15	704	0.4-	0.7+	2000 03 26	699	0.1+	0.5+
1998 08 28	699	0.4-	0.1-	1998 10 15	704	0.5-	0.6-	2000 04 05	704	0.2+	0.1+
1998 09 14	704	0.0	0.5+	1998 10 15	704	0.5+	0.6-	2000 04 05	704	0.4+	0.2+
1998 09 14	704	0.6+	0.6+	1998 10 15	704	0.7-	1.0+	2000 04 05	704	0.4-	0.0
1998 09 14	704	1.0+	0.7-	1998 10 15	704	1.0-	1.7+	2000 04 05	704	0.5+	0.3-
1998 09 15	699	1.0+	0.6+	1998 10 19	699	0.1+	0.6+	2000 04 05	704	0.4+	0.1+
1998 09 15	699	1.2+	0.5+	1998 10 19	699	0.6-	0.5+	2000 04 06	704	0.1+	0.0
1998 09 15	699	0.2+	1.2+	1998 10 19	699	0.6+	0.7+	2000 04 06	704	0.2-	0.6+
1998 09 18	704	0.7-	0.1-	1998 10 28	704	(0.4-	2.3+)	2000 04 06	704	0.1+	0.1+
1998 09 18	704	1.2-	0.5-	1998 10 28	704	0.7+	0.7+	2000 04 07	704	0.3+	0.6+
1998 09 18	704	1.3+	0.3-	1998 10 28	704	1.6-	0.3-	2000 04 07	704	1.2+	0.1+
1998 09 18	704	0.3-	0.8-	1998 10 28	704	0.6+	0.2-	2000 04 07	704	0.6+	0.5-
1998 09 18	704	0.1-	0.5+	1998 10 28	704	1.8-	1.7+	2000 04 07	704	0.6+	0.7+
1998 09 26	704	0.0	0.6+	2000 03 09	704	0.1+	0.2-	2000 04 07	704	0.1+	1.3-
1998 09 26	704	0.2+	1.2-	2000 03 09	704	0.7+	0.5+	2000 04 11	608	0.1+	1.4-
1998 09 26	704	0.3+	0.6-	2000 03 09	704	0.2+	0.4-	2000 04 11	608	0.2-	1.3-
1998 09 26	704	0.1+	0.3-	2000 03 09	704	0.2+	1.4+	2000 04 11	608	0.6-	1.2-
1998 09 26	704	0.7-	0.9-	2000 03 09	704	0.2-	1.1+				

(14574)* 1998 QR₅₈ = 2456 T-3

Discovered 1998 Aug. 30 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 32718)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.68055		(2000.0)	P	Q
<i>n</i>	0.27978897	ω	77.54078	+0.32811468	-0.94456896
<i>a</i>	2.3151670	Ω	353.27184	+0.82444863	+0.29224405
<i>e</i>	0.1609789	<i>i</i>	5.59005	+0.46111301	+0.14960916
<i>P</i>	3.52	<i>H</i>	14.9	<i>G</i>	0.15

Residuals in seconds of arc

1977 10 16	675	0.5+	0.8-	1998 09 25	699	0.5+	0.1+	2000 03 11	704	0.9+	0.7+
1977 10 16	675	0.4+	0.3-	1998 09 25	699	0.1+	0.5+	2000 03 11	704	0.5+	0.9-
1977 10 17	675	0.4-	1.2+	1998 09 25	699	0.2+	0.4+	2000 03 26	699	0.4-	0.5+
1977 10 17	675	0.3-	1.6+	1998 09 27	704	0.1-	0.7+	2000 03 26	699	0.6-	0.6+
1977 10 21	675	0.6+	1.1-	1998 09 27	704	0.5+	0.8+	2000 03 26	699	0.9-	1.0+
1977 10 21	675	0.6+	1.6-	1998 09 27	704	0.4-	0.9+	2000 03 26	699	0.8-	0.5+
1977 10 22	675	0.2+	0.7+	1998 09 27	704	0.3-	0.5+	2000 04 05	704	0.2+	0.1+
1977 10 22	675	1.3-	0.1+	1998 09 27	704	0.9+	0.0	2000 04 05	704	0.4-	0.1-
1993 03 21	809	0.3-	0.4-	1998 10 14	704	0.5-	0.4-	2000 04 05	704	0.4-	0.4+
1993 03 22	809	0.5-	0.5-	1998 10 14	704	0.1-	0.1-	2000 04 05	704	0.0	0.2+
1993 03 26	809	0.2+	0.3-	1998 10 14	704	0.1+	0.6-	2000 04 05	704	0.5-	0.4+
1993 04 18	413	1.1-	0.4-	1998 10 14	704	1.2-	0.2-	2000 04 05	688	0.1-	0.3-
1998 08 30	691	0.7+	0.0	1998 10 14	704	(0.2+	2.6-)	2000 04 05	688	0.0	0.4-
1998 08 30	691	0.7+	0.0	1998 10 15	704	0.3-	1.0-	2000 04 07	699	0.4+	0.1+
1998 08 30	691	0.7+	0.2+	1998 10 15	704	1.2-	0.3-	2000 04 07	699	0.2+	0.7+
1998 08 31	691	0.1+	0.1+	1998 10 15	704	1.6-	0.4+	2000 04 07	699	0.2+	0.1+

1998 08 31	691	0.2+	0.0	1998 10 15	704	1.3-	0.1-	2000 04 07	704	0.0	0.2-
1998 08 31	691	0.4+	0.2+	1998 10 15	704	0.2-	0.8-	2000 04 07	699	0.0	0.3+
1998 09 14	704	0.5+	0.0	2000 03 03	703	0.3+	0.7+	2000 04 07	704	0.2-	0.3+
1998 09 14	704	0.5+	0.3-	2000 03 03	703	0.1+	0.6-	2000 04 07	704	0.5-	0.3+
1998 09 14	704	0.2-	0.2+	2000 03 03	703	0.7-	0.5+	2000 04 07	704	0.1+	0.1+
1998 09 14	704	0.3+	0.6-	2000 03 03	703	0.4+	0.3-	2000 04 07	704	0.2-	0.0
1998 09 14	691	0.3+	0.9+	2000 03 09	704	0.3+	0.3+	2000 04 08	704	0.6-	0.5-
1998 09 14	704	0.8+	0.5-	2000 03 09	704	0.5+	1.0+	2000 04 08	704	1.8+	0.3+
1998 09 14	691	0.3+	0.9+	2000 03 09	704	0.7+	0.3+	2000 04 08	704	0.1-	0.9+
1998 09 14	691	0.4+	0.9+	2000 03 09	704	0.8+	0.5+	2000 04 08	704	0.0	0.7+
1998 09 16	699	0.2+	0.5+	2000 03 09	704	0.4+	0.1-	2000 04 08	704	0.5+	0.4-
1998 09 16	699	0.6+	0.6+	2000 03 10	704	0.4+	0.7+	2000 04 10	704	0.6+	0.9-
1998 09 16	699	0.2-	0.0	2000 03 10	704	0.2-	0.1-	2000 04 10	704	0.2-	0.1-
1998 09 18	704	0.4-	0.9-	2000 03 10	704	0.0	0.2+	2000 04 10	704	0.2-	0.5+
1998 09 18	704	0.7-	0.0	2000 03 10	704	0.1+	0.0	2000 04 10	608	0.3-	0.4-
1998 09 18	704	0.1+	0.4-	2000 03 10	704	1.0+	0.4-	2000 04 10	608	0.4-	0.5-
1998 09 18	704	0.9-	0.1-	2000 03 11	704	0.5+	0.7-	2000 04 10	608	0.3-	0.7-
1998 09 18	704	1.3-	0.5+	2000 03 11	704	0.5+	0.4-				

(14575)* 1998 QC₉₂

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	129.35884		(2000.0)	P	Q
<i>n</i>	0.28175073	ω	223.50016	+0.68801422	-0.72569420
<i>a</i>	2.3044078	Ω	183.02897	+0.67616994	+0.64210120
<i>e</i>	0.1610558	<i>i</i>	2.26553	+0.26349697	+0.24713149
<i>P</i>	3.50	<i>H</i>	14.6	<i>G</i>	0.15

Residuals in seconds of arc

1993 03 26	809	(2.8+	4.0-)	1998 10 20	699	1.1+	0.5+	2000 04 05	704	0.1+	0.1+
1993 03 27	809	0.5+	1.2-	1998 11 10	704	0.2+	0.0	2000 04 05	704	0.6+	0.0
1993 04 18	691	0.5-	0.3-	1998 11 10	704	0.0	0.6+	2000 04 06	704	0.6+	0.2-
1993 04 18	691	0.4-	0.5-	1998 11 10	704	0.7+	0.0	2000 04 06	704	0.6+	0.2+
1993 04 18	691	0.5-	0.5-	1998 11 10	704	0.4+	0.2-	2000 04 06	704	0.4+	0.3-
1993 04 18	413	(1.6-	6.9-)	1998 11 10	704	0.2-	0.2+	2000 04 06	704	0.3+	0.8-
1995 11 21	691	0.2-	0.6-	1998 11 11	704	0.2-	0.7+	2000 04 06	704	0.1+	0.9-
1995 11 21	691	0.0	0.2-	1998 11 11	704	0.6-	0.5-	2000 04 06	691	0.5-	0.2-
1995 11 21	691	0.0	0.9-	1998 11 11	704	0.1+	0.1-	2000 04 06	691	0.6-	0.1-
1996 02 10	691	0.5-	0.8-	1998 11 11	704	0.2+	0.0	2000 04 06	691	0.5-	0.1-
1996 02 10	691	0.3-	0.6-	1998 11 11	704	0.8-	0.7+	2000 04 07	704	0.2+	0.1+
1996 02 10	691	0.2-	0.9-	1998 11 14	699	0.2+	0.4+	2000 04 07	704	0.5+	0.1+
1998 08 28	704	1.2+	0.0	1998 11 14	699	0.1+	0.4+	2000 04 07	704	0.6+	0.4+
1998 08 28	704	0.5-	0.1-	1998 11 14	699	0.2-	0.7+	2000 04 07	704	0.3+	0.1+
1998 08 28	704	1.2-	0.7-	1999 01 11	704	0.9+	0.4-	2000 04 07	704	0.8+	0.0
1998 08 28	704	0.1-	0.3-	1999 01 11	704	0.2-	0.0	2000 04 07	704	0.4+	0.1+
1998 08 31	704	0.5+	0.2-	1999 01 11	704	0.3+	0.1-	2000 04 07	704	0.3-	0.5-
1998 08 31	704	0.8-	0.2+	1999 01 11	704	0.5-	0.4+	2000 04 07	704	0.3+	0.4+
1998 08 31	704	0.2+	0.9-	1999 01 11	704	1.4-	1.0+	2000 04 07	704	0.8-	0.9+
1998 08 31	704	0.6+	1.3-	2000 03 09	704	0.4+	0.6+	2000 04 07	704	0.3-	1.3+
1998 08 31	704	0.3-	1.3+	2000 03 09	704	0.2-	0.2+	2000 04 08	704	0.9+	0.2+
1998 09 16	910	0.7-	0.2-	2000 03 09	704	0.3+	0.5+	2000 04 08	704	1.1+	0.1+
1998 09 16	910	0.4-	0.0	2000 03 25	691	0.4-	0.0	2000 04 08	704	1.0+	0.2-
1998 09 16	910	0.8-	0.0	2000 03 25	691	0.4-	0.0	2000 04 08	704	0.5+	0.8+
1998 09 17	910	0.8-	0.0	2000 03 25	691	0.4-	0.0	2000 04 08	704	0.4+	0.1+
1998 09 17	910	0.8-	0.1-	2000 04 02	699	0.8-	0.2+	2000 04 08	120	1.2-	0.8+
1998 09 17	910	0.9-	0.2+	2000 04 02	699	0.2+	0.2+	2000 04 08	120	1.2-	1.8+
1998 10 14	699	0.4+	1.0+	2000 04 02	699	1.7-	0.6+	2000 04 10	704	0.1+	0.5+
1998 10 14	699	0.4+	0.9+	2000 04 02	699	0.2-	0.5+	2000 04 10	704	0.5+	0.4+
1998 10 14	699	0.3+	0.9+	2000 04 05	704	0.3+	0.3+	2000 04 10	704	0.6+	1.4+
1998 10 20	699	0.5+	0.7+	2000 04 05	704	0.2+	0.8+	2000 04 10	704	0.5+	0.8+
1998 10 20	699	0.2-	0.7+	2000 04 05	704	0.1+	0.6-	2000 04 10	704	0.8+	0.9+

2000 APR. 18

M.P.C. 39869

Id. G. V. Williams (*MPC* 33269, *MPC* 34926)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	121.50565	ω	262.99973	+0.52452373	−0.85121351		
<i>a</i>	2.3148275	Ω	155.33922	+0.79686464	+0.48353642		
<i>e</i>	0.1182014	<i>i</i>	2.42008	+0.29980259	+0.20402962		
<i>P</i>	3.52	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1989 02 05	049	0.6+	0.8−	1996 04 13	327	0.5−	0.2−
1989 02 05	049	0.3−	0.3−	1998 08 28	704	1.3+	1.4+
1991 11 05	691	0.3−	0.1−	1998 08 28	704	1.1+	0.2+
1991 11 05	691	0.5−	0.3+	1998 08 28	704	0.7+	1.0−
1991 11 05	691	0.1−	0.1+	1998 08 28	704	0.4+	0.2−
1995 11 21	691	0.2+	0.1−	1998 08 31	704	0.3−	0.1+
1995 11 21	691	0.1−	0.0	1998 08 31	704	(2.1−	0.3+)
1995 11 21	691	0.2−	0.3−	1998 08 31	704	0.3+	0.7−
1996 02 10	691	0.9−	0.1+	1998 08 31	704	(0.8+	2.5−)
1996 02 10	691	0.7−	0.1−	1998 11 10	704	0.2−	0.1+
1996 02 10	691	0.5−	0.3−	1998 11 10	704	0.5+	0.1+
1996 02 10	327	0.2+	0.0	1998 11 10	704	0.0	0.2−
1996 02 10	327	0.2+	0.0	1998 11 10	704	0.1−	0.0
1996 02 10	327	0.4+	0.2+	1998 11 10	704	0.1−	1.0−
1996 02 10	327	0.6+	0.1+	1998 11 11	704	0.6−	0.0
1996 02 12	327	0.3+	0.3−	1998 11 11	704	0.3−	0.7+
1996 02 12	327	0.5+	0.2−	1998 11 11	704	0.4+	0.5+
1996 02 12	327	0.6+	0.1−	1998 11 11	704	0.9−	0.2+
1996 04 13	327	0.2−	0.0	1998 11 11	704	0.3−	0.0
1996 04 13	327	0.2−	0.2+	1999 01 11	704	0.9−	1.4+
				2000 04 07	704	0.4−	0.1+

(14577)* 1998 QN₉₃ = 1972 TE₇

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Gnädig (*MPC* 38486)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	108.08129	ω	209.63194	+0.60741018	−0.78823775		
<i>a</i>	2.6486875	Ω	203.40811	+0.76892013	+0.61458074		
<i>e</i>	0.1704792	<i>i</i>	14.37955	+0.19953624	+0.03117294		
<i>P</i>	4.31	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1955 12 16	675	0.9−	0.4−	1998 10 19	699	0.4−	0.9+
1955 12 16	675	0.1+	0.7−	1998 11 12	399	(2.7−	0.2−)
1972 10 06	095	1.7+	0.3−	1998 11 12	399	1.7−	0.8−
1983 05 11	413	0.4−	0.8−	1998 11 13	704	0.7+	0.1−
1983 05 11	413	0.5−	1.4−	1998 11 13	704	0.2−	0.6+
1984 08 01	413	0.4−	0.3+	1998 11 13	704	0.9+	0.2−
1984 08 01	413	0.4−	0.2−	1998 11 13	704	0.1+	0.0
1991 03 18	413	0.1−	0.3−	1998 11 13	704	0.4−	0.8−
1991 03 18	413	1.0−	1.4−	1998 11 14	699	0.1−	1.0+
1998 08 28	704	0.7+	1.0−	1998 11 14	699	0.1+	1.0+
1998 08 28	704	0.5−	0.9+	1998 11 14	699	0.1+	1.0+
1998 08 28	704	(2.1−	0.3+)	1998 11 18	399	(1.9−	2.2+)
1998 08 28	704	(2.6−	2.3+)	1998 11 18	399	0.3−	0.9+
1998 08 31	704	0.2−	0.5−	1999 02 04	704	0.4+	0.7−
1998 08 31	704	0.4−	0.8−	1999 02 04	704	0.9+	0.6−
1998 08 31	704	1.0+	0.5+	1999 02 04	704	1.2+	0.9−
1998 08 31	704	0.8−	0.4−	1999 02 04	704	0.2−	0.0
1998 08 31	704	0.7−	0.3−	2000 03 09	704	0.0	0.5−
1998 10 19	699	0.4−	0.6+	2000 03 09	704	0.1−	0.2−
1998 10 19	699	0.3−	0.9+	2000 03 09	704	0.1−	0.3−
				2000 04 08	704	1.0+	1.3+
				2000 04 08	704	0.9+	0.8+

(14578)* 1998 QO₉₃ = 1996 KR₉

Discovered 1998 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 34221)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	81.59065	ω	227.64912	−0.25380025	−0.94868185		
<i>a</i>	2.5750165	Ω	237.98577	+0.93992860	−0.19586032		
<i>e</i>	0.1267501	<i>i</i>	12.85500	+0.22829729	−0.24827703		
<i>P</i>	4.13	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1992 05 03	809	1.0+	0.4+	1998 09 17	327	0.7+	0.1+
1992 05 03	809	1.4+	0.3+	1998 09 17	327	0.8+	0.3+
1992 05 03	809	1.1+	0.3+	1998 09 17	327	0.3+	0.5+
1993 09 14	675	0.2−	0.0	1998 09 21	327	1.2+	0.1−
1993 09 14	675	0.8+	0.8−	1998 09 21	327	1.6+	0.0
1996 05 20	566	1.6−	0.6+	1998 09 21	327	1.3+	0.1−
1996 05 20	566	1.5−	0.5+	1998 09 29	704	1.1+	0.0
1996 05 20	566	1.6−	0.6+	1998 09 29	704	0.3+	1.6+
1996 06 20	566	0.4−	0.2−	1998 09 29	704	0.4+	0.3+
1996 06 20	566	0.1−	0.2−	1998 09 29	704	(2.1+	1.9−)
1996 06 20	566	1.4−	0.5+	1998 09 29	704	0.6−	0.5+
1997 06 04	691	0.2−	0.4+	1998 12 13	952	(0.4−	3.1−)
1997 06 04	691	0.3−	0.2+	1998 12 13	952	(0.2−	2.1−)
1997 06 04	691	0.6−	0.2+	1998 12 15	704	0.3−	0.8−
1998 08 28	704	0.1+	0.8+	1998 12 15	704	0.0	0.9−
1998 08 28	704	(2.3+	0.6+)	1998 12 15	704	0.2+	0.0
1998 08 28	704	0.6+	0.3+	1998 12 15	704	0.4+	0.4−
1998 08 28	704	1.5−	0.1+	1998 12 15	704	0.3−	0.3−
1998 08 31	704	0.9+	1.0+	1998 12 15	138	0.4−	0.9−
1998 08 31	704	0.2−	1.0−	1998 12 15	138	0.1−	0.4−
1998 08 31	704	1.6−	0.5−	1998 12 15	138	0.1−	0.4−
1998 08 31	704	0.9−	1.2+	1998 12 15	138	0.0	1.2−
1998 08 31	704	1.1+	1.3+	1998 12 15	138	0.3+	0.1−
1998 09 06	327	0.0	0.3+	1998 12 22	704	0.6−	0.2+
1998 09 06	327	0.3−	0.8+	1998 12 22	704	0.5−	0.0
1998 09 06	327	0.1+	0.6+	1998 12 22	704	0.1−	0.4−
1998 09 17	327	0.5+	0.4+	1998 12 22	704	0.7−	0.9−

(14579)* 1998 QZ₉₉ = 1979 WN₁

Discovered 1998 Aug. 26 by E. W. Elst at the European Southern

Observatory.

Id. A. Gnädig (*MPC* 39211)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	119.00086	ω	322.28989	+0.95431762	−0.29477218		
<i>a</i>	2.4502452	Ω	54.92325	+0.28660904	+0.85685690		
<i>e</i>	0.1669265	<i>i</i>	3.42273	+0.08445789	+0.42297235		
<i>P</i>	3.84	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1979 11 16	095	0.8−	1.8+	1998 09 18	704	0.4−	0.1+
1995 11 30	675	0.3+	0.9+	1998 09 18	704	0.2+	0.6+
1995 11 30	675	0.7−	0.1+	1998 09 18	704	0.7−	0.6+
1996 04 08	675	0.1−	0.6−	1998 09 18	704	0.6−	0.2−
1996 04 08	675	0.5+	0.8−	1998 09 26	704	0.2+	0.9−
1997 04 11	704	(0.0	2.4−)	1998 09 26	704	0.1−	0.4+
1997 04 11	704	0.7−	0.7−	1998 09 26	704	0.0	0.8−
1997 04 30	704	0.5+	0.2−	1998 09 26	704	1.0+	1.2−
1997 04 30	704	0.8+	0.2+	1998 09 26	704	0.4+	1.7−
1997 04 30	704	0.9+	1.5+	1998 09 27	704	0.1+	0.4+
1997 04 30	704	0.2+	1.7+	1998 09 27	704	0.1−	0.7+
1997 04 30	704	0.6−	1.1+	1998 09 27	704	0.1+	0.1−
				1998 12 08	704	(1.4+	2.0−)
				1998 12 08	704	1.4−	1.4−
				1998 12 08	704	0.2+	0.3−
				1998 12 08	704	(0.6−	2.1+)
				2000 02 03	704	1.2+	1.1+
				2000 02 03	704	1.2+	0.2−
				2000 02 03	704	0.6−	0.9+
				2000 02 03	704	0.5−	0.2+
				2000 02 11	704	0.2−	0.2+
				2000 02 11	704	1.5+	0.2−
				2000 02 11	704	0.6−	1.5−
				2000 02 11	704	0.1−	0.1+

1998 08 26	809	1.5+	1.3-	1998 09 27	704	0.4-	0.1+	2000 02 11	704	0.7-	1.4-
1998 08 26	809	0.8+	1.1-	1998 09 27	699	0.6+	0.5+	2000 02 25	703	0.3-	0.1-
1998 08 26	809	0.7+	0.6-	1998 09 27	704	0.2+	0.7-	2000 02 25	703	1.3-	0.4-
1998 08 27	809	0.1-	1.8-	1998 09 27	699	0.0	0.4+	2000 02 25	703	0.2+	0.4-
1998 08 27	809	0.5-	1.8-	1998 09 27	699	0.3+	0.8+	2000 02 25	703	0.6-	0.0
1998 08 27	809	(0.7+ 2.3-)		1998 10 10	699	1.0+	0.4+	2000 02 28	704	0.7+	0.4+
1998 09 14	704	0.6-	1.3+	1998 10 10	699	0.0	1.0+	2000 02 28	704	0.9+	0.2-
1998 09 14	704	0.2-	0.1+	1998 10 10	699	0.4-	1.5+	2000 02 28	704	1.0-	0.2+
1998 09 14	704	0.9-	0.4+	1998 10 12	699	0.1-	0.4+	2000 02 28	704	0.9+	0.1+
1998 09 14	704	0.0	0.7+	1998 10 12	699	0.4-	1.3+	2000 02 28	704	0.7-	0.5+
1998 09 18	704	0.6-	0.6+	1998 10 12	699	0.3+	0.7+				

(14580)* 1998 QW₁₀₁ = 1992 FO₂ = 2000 CJ₈₈

Discovered 1998 Aug. 26 by E. W. Elst at the European Southern Observatory.

Id. M. E. Sansaturio (*MPC* 39212), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		74.26508		(2000.0)		P		Q	
<i>n</i>		0.24100542	ω	63.14401		+0.44102783		-0.89748841	
<i>a</i>		2.5573186	Ω	0.70759		+0.71284033		+0.34825625	
<i>e</i>		0.1840437	<i>i</i>	14.06109		+0.54530095		+0.27061437	
<i>P</i>		4.09	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 03 26	691	1.2-	0.0	1998 09 14	704	0.8+	0.5+	2000 02 29	704	0.1-	0.3+
1992 03 26	691	1.1-	0.2+	1998 09 18	704	0.2+	0.5+	2000 02 29	704	0.2+	0.3-
1992 03 26	691	0.8-	0.0	1998 09 18	704	0.6-	0.0	2000 02 29	704	0.0	0.7+
1992 04 07	691	1.6+	0.2-	1998 09 18	704	0.0	0.6+	2000 02 29	704	0.4-	0.4+
1992 04 07	691	1.2+	0.4+	1998 09 18	704	0.4-	0.4+	2000 02 29	704	0.0	0.2-
1992 04 07	691	0.5+	0.1-	1998 09 18	704	0.3+	0.6+	2000 03 05	704	0.2-	0.2+
1996 03 22	566	1.4+	0.7+	1998 12 09	704	0.5-	0.5+	2000 03 05	704	0.0	0.2+
1996 03 22	566	0.7+	0.6+	1998 12 09	704	0.5-	1.2-	2000 03 05	704	0.1-	0.1+
1996 03 22	566	0.5-	1.2+	1998 12 09	704	0.0	1.0-	2000 03 05	704	0.0	0.2-
1996 04 19	566	0.2-	0.8-	1998 12 09	704	1.8-	1.7+	2000 03 05	704	0.6-	0.0
1996 04 19	566	0.2-	0.5-	1998 12 09	704	(6.0-	2.1+)	2000 03 12	704	0.4+	0.3+
1996 04 19	566	0.5-	0.3-	2000 02 04	704	0.2+	0.1-	2000 03 12	704	0.0	0.1+
1998 08 26	809	(3.0+ 2.6+)		2000 02 04	704	0.2-	0.8-	2000 03 12	704	0.7-	0.2+
1998 08 26	809	(2.8+ 3.2+)		2000 02 04	704	0.0	0.5-	2000 03 12	704	0.3-	0.0
1998 08 26	809	(2.1+ 3.2+)		2000 02 04	704	0.2-	0.7-	2000 03 12	704	0.0	0.2+
1998 08 27	809	(1.6+ 3.3+)		2000 02 04	704	0.2+	0.3-	2000 04 03	704	0.1+	0.6+
1998 08 27	809	(2.4+ 3.1+)		2000 02 11	704	0.8+	1.4-	2000 04 03	704	0.2+	0.2+
1998 08 27	809	(2.2+ 2.8+)		2000 02 11	704	0.1-	0.2-	2000 04 03	704	0.1+	0.7+
1998 09 14	704	0.1-	0.1+	2000 02 11	704	0.4+	0.5-	2000 04 03	704	0.3+	1.4+
1998 09 14	704	0.3-	0.6-	2000 02 11	704	0.1+	0.1-	2000 04 03	704	0.4-	0.6+
1998 09 14	704	0.5+	0.6-	2000 02 11	704	0.4+	0.4-				

(14581)* 1998 RT₄ = 1989 RV₁

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. DANEOPS (*MPC* 35341)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		90.36707		(2000.0)		P		Q	
<i>n</i>		0.21880248	ω	244.62738		+0.54731694		-0.83258867	
<i>a</i>		2.7275196	Ω	170.68185		+0.82119564		+0.55386634	
<i>e</i>		0.4030128	<i>i</i>	31.70301		-0.16149887		-0.00530818	
<i>P</i>		4.50	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 03 15	413	0.8+	0.1-	1998 09 21	704	0.9+	1.5+	2000 03 08	608	0.0	0.6-
1986 03 15	413	0.2-	0.4+	1998 09 21	704	0.5+	1.3+	2000 03 11	699	0.4+	0.5+
1989 09 01	675	0.6-	1.7-	1998 09 21	704	0.4+	1.0+	2000 03 11	699	0.4-	0.2-
1989 09 04	675	0.1+	1.5+	1998 09 21	704	0.2+	0.9+	2000 03 11	699	0.9-	0.8+
1998 06 30	704	0.4-	0.4+	1998 09 27	699	0.0	1.0+	2000 03 11	699	0.1-	0.8+
1998 06 30	704	0.2+	1.3-	1998 09 27	699	0.1+	1.0+	2000 03 12	703	0.6-	0.3+
1998 06 30	704	0.2-	0.9-	1998 09 27	699	0.2+	0.7+	2000 03 12	703	0.0	0.8+

1998 06 30	704	0.5+	1.4-	1998 11 05	699	0.1+	0.7+	2000 03 12	703	0.9-	1.1+
1998 09 14	704	0.3+	0.2+	1998 11 05	699	0.0	0.9+	2000 03 12	703	0.3-	0.5+
1998 09 14	704	0.3+	1.5-	1998 11 05	699	0.4-	0.9+	2000 04 03	704	0.2-	0.3+
1998 09 14	704	0.4+	1.1-	1999 01 23	428	1.2-	1.3-	2000 04 03	704	0.0	0.1-
1998 09 17	699	0.1-	0.8+	1999 01 23	428	0.8+	0.2-	2000 04 03	704	0.6+	0.0
1998 09 17	699	0.2-	0.6+	1999 01 23	428	0.6+	0.0	2000 04 03	704	0.5+	0.6+
1998 09 17	699	0.1-	0.7+	1999 01 26	428	1.8+	0.3-	2000 04 03	704	0.2-	0.8+
1998 09 18	704	0.8-	0.0	1999 01 26	428	1.2+	0.2-	2000 04 08	704	0.5-	0.1-
1998 09 18	704	0.1-	0.5-	1999 01 26	428	0.3-	0.3-	2000 04 08	704	0.3-	0.3+
1998 09 18	704	0.8-	0.1-	1999 03 04	428	0.9-	0.1-	2000 04 08	704	0.4+	0.6+
1998 09 18	704	0.9-	0.1-	1999 03 04	428	0.7+	0.2+	2000 04 08	704	1.0+	0.3+
1998 09 18	704	0.4+	1.0-	2000 03 08	608	0.2+	0.5-	2000 04 08	704	0.5-	0.6+
1998 09 21	704	0.4-	0.8-	2000 03 08	608	0.1+	0.7-				

(14582)* 1998 RK₄₉ = 1951 YT₂ = 1971 TH₃ = 1981 RF₄ = 1988 VT₁₂ = 1991 PY₉

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 33271)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		101.86799		(2000.0)		P		Q	
<i>n</i>		0.29096085	ω	254.37309		+0.43789060		-0.89887028	
<i>a</i>		2.2555182	Ω	169.60909		+0.85649521		+0.41140280	
<i>e</i>		0.1708212	<i>i</i>	5.36168		+0.27325408		+0.15093029	
<i>P</i>		3.39	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1951 12 28	711	(0.6+ 3.6+)	Y	1998 09 26	704	0.9-	0.8+	2000 04 02	699	0.2-	0.5+
1971 10 11	095	(12.4- 5.8-)		1998 09 26	704	0.6-	0.8+	2000 04 02	699	0.1-	0.3+
1981 09 05	095	(3.2- 14.6-)		1998 09 26	704	0.6-	0.3+	2000 04 02	699	0.6+	0.4+
1988 11 04	327	(3.0- 0.4+)		1998 09 26	704	0.8-	0.9+	2000 04 04	704	1.1+	0.0
1988 11 04	327	0.4-	2.1+	1998 09 27	704	1.2+	0.3+	2000 04 04	704	0.7+	0.3+
1991 08 06	809	(0.5- 2.1+)		1998 09 27	704	1.8+	0.2+	2000 04 04	704	1.0+	0.1-
1991 08 06	809	0.5-	0.7+	1998 09 27	704	0.7+	1.3+	2000 04 05	704	0.8+	0.4+
1991 08 06	809	1.0-	0.3+	1998 09 27	704	0.4+	0.9+	2000 04 05	704	0.1+	0.4+
1991 08 11	809	0.7+	1.5-	1998 09 27	704	1.0+	1.3+	2000 04 05	704	0.6+	0.3+
1991 08 11	809	1.3+	1.6-	1998 10 10	699	0.6+	1.0+	2000 04 05	704	0.5+	0.3+
1991 08 11	809	(1.3+ 2.4-)		1998 10 10	699	0.0	0.9+	2000 04 05	704	0.8+	0.3+
1997 03 18	910	1.2-	0.0	1998 10 10	699	0.0	1.0+	2000 04 06	704	0.1-	0.3+
1997 03 18	910	0.4-	0.3-	1998 12 08	704	1.9-	1.0+	2000 04 06	704	0.2+	0.4+
1997 03 18	910	0.5-	0.2-	1998 12 08	704	(0.1+ 2.6+)		2000 04 06	704	0.1+	0.2+
1998 06 29	704	0.7+	0.2+	1998 12 08	704	(0.8- 2.3+)		2000 04 06	704	0.9+	0.1+
1998 06 29	704	0.4-	1.3+	1998 12 08	704	1.1-	0.9+	2000 04 06	699	0.2+	0.5+
1998 06 29	704	(2.4+ 1.0-)		1998 12 08	704	0.7+	0.4+	2000 04 06	704	0.7+	0.4+
1998 06 29	704	(5.1- 0.1-)		2000 03 05	608	0.0	0.1+	2000 04 06	704	0.2+	0.4+
1998 08 23	704	(2.5+ 0.5+)		2000 03 05	608	0.1+	0.7-	2000 04 06	699	0.6+	0.5+
1998 08 23	704	(3.5+ 1.4-)		2000 03 05	608	0.1+	0.1+	2000 04 06	704	0.5+	0.1-
1998 08 23	704	1.2+	0.1+	2000 03 09	704	0.0	0.2-	2000 04 06	699	0.7+	0.5+
1998 08 23	704	(4.2+ 1.2-)		2000 03 09	704	0.2+	0.1+	2000 04 06	704	0.3+	0.4+
1998 08 23	704	0.8+	0.9-	2000 03 09	704	0.1-	0.2+	2000 04 06	699	0.1-	0.7+
1998 09 14	704	0.9-	1.2-	2000 03 09	704	0.1+	0.2-	2000 04 06	704	0.6+	0.1+
1998 09 14	704	0.0	1.1-	2000 03 09	704	0.1+	0.1+	2000 04 07	699	0.2+	0.4+
1998 09 14	704	0.4-	0.7+	2000 03 10	704	0.2-	1.1-	2000 04 07	699	0.1+	0.6+
1998 09 14	704	0.2+	0.3+	2000 03 10	704	0.8-	0.6-	2000 04 07	699	0.3+	0.7+
1998 09 14	704	0.1-	0.5+	2000 03 10	704	0.8-	1.0-	2000 04 07	699	0.4+	0.7+
1998 09 17	699	0.6-	0.0	2000 03 10	704	0.3-	1.2-	2000 04 08	704	0.1+	0.3+
1998 09 17	699	0.4-	0.2+	2000 03 10	704	1.0-	0.2+	2000 04 08	704	0.3+	0.3+
1998 09 17	699	0.3-	0.6-	2000 03 27	699	0.0	0.5+	2000 04 08	704	0.2-	0.6+
1998 09 18	704	0.0	0.3-	2000 03 27	699	0.5-	0.8+	2000 04 08	704	0.4-	0.8+
1998 09 18	704	0.6-	0.2+	2000 03 27	699	0.2-	0.6+	2000 04 08	704	0.3-	0.4+
1998 09 18	704	1.0-	0.1-	2000 03 27	699	0.0	0.5+	2000 04 10	704	0.2+	0.6+
1998 09 18	704	0.1-	0.8-	2000 03 29	704	1.1-	0.9+	2000 04 10	704	0.3+	0.6+
1998 09 18	704	0.7-	0.5+	2000 03 29	704	1.1-	0.1-	2000 04 10	704	0.3+	0.4+
1998 09 19	691	0.8-	0.4+	2000 03 29	704	0.4-	0.3-	2000 04 10	704	0.1+	0.4+
1998 09 19	691	0.6-	0.4+	2000 03 29	704	0.4-	0.6-	2000 04 10	704	0.4+	0.9+

2000 APR. 18

M.P.C. 39871

1998 09 19 691 0.7- 0.4+ 2000 03 29 704 0.3- 0.7-
 1998 09 26 704 0.4+ 0.4+ 2000 04 02 699 0.2- 0.4+

(14583)* 1998 RN₆₁

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	103.63192	(2000.0)	
<i>n</i>	0.23902738	ω 120.62098	+0.83716253 -0.54613220
<i>a</i>	2.5714077	Ω 272.49676	+0.49099065 +0.77452497
<i>e</i>	0.1686020	<i>i</i> 1.71935	+0.24101263 +0.31914055
<i>P</i>	4.12	<i>H</i> 14.5	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1949 11 25	675	1.0-	1.0-	1998 09 27	704	0.5-	0.0	2000 02 02	704	0.6+	0.1+
1949 11 25	675	0.8+	0.1-	1998 09 27	704	0.8-	0.1+	2000 02 29	704	0.4+	0.3+
1977 09 08	413	0.8-	0.1-	1998 09 27	704	0.0	0.2-	2000 02 29	704	1.0+	0.4+
1977 09 08	413	0.1+	0.9+	1998 09 27	704	0.1+	0.8-	2000 02 29	704	0.9+	0.6+
1988 04 20	413	0.0	0.5-	1998 10 14	699	0.5+	0.1-	2000 02 29	704	0.1-	0.0
1988 04 20	413	1.8+	0.4-	1998 10 14	699	0.2+	0.0	2000 02 29	704	0.7+	0.7+
1998 08 02	699	0.2+	0.2+	1998 10 14	699	0.4+	0.2+	2000 03 03	704	1.0-	0.1+
1998 08 02	699	1.0-	0.4+	1998 12 08	699	0.8+	0.2+	2000 03 03	704	0.2+	0.4-
1998 08 02	699	0.5-	0.1+	1998 12 08	699	0.3-	1.0+	2000 03 03	704	0.3+	0.2+
1998 09 14	704	0.1-	0.2+	1998 12 08	699	0.9+	0.8+	2000 03 03	704	0.3-	0.4-
1998 09 14	704	0.0	0.6+	1998 12 09	704	1.5+	1.8+	2000 03 03	704	0.4+	1.0-
1998 09 14	704	0.2-	0.6+	1998 12 09	704	(1.0+	2.9+)	2000 03 11	704	0.0	0.2-
1998 09 15	699	0.7+	0.2+	1998 12 09	704	0.7-	0.7+	2000 03 11	704	0.5+	0.1+
1998 09 15	699	0.0	0.5+	1998 12 09	704	0.6+	0.1+	2000 03 11	704	0.3+	0.2-
1998 09 15	699	0.3+	0.5+	1998 12 09	704	(3.8-	1.0-)	2000 03 11	704	1.1+	0.4-
1998 09 18	704	0.1-	0.1-	1998 12 15	699	0.0	0.5-	2000 03 11	704	0.3+	0.5-
1998 09 18	704	0.7-	0.2+	1998 12 15	699	0.7+	0.7+	2000 03 11	699	0.7-	0.1-
1998 09 18	704	1.2+	0.0	1998 12 15	699	0.5-	1.8-	2000 03 11	699	1.1-	0.8+
1998 09 18	704	0.2-	0.4+	2000 02 01	703	1.3-	0.6+	2000 03 11	699	0.0	0.3+
1998 09 18	704	1.4-	0.2-	2000 02 01	703	0.3+	0.1-	2000 03 11	699	0.4-	0.1-
1998 09 26	704	0.1-	0.5-	2000 02 01	703	0.3-	0.3+	2000 04 03	699	0.2-	0.9+
1998 09 26	704	0.6-	0.1-	2000 02 01	703	0.2-	0.7+	2000 04 03	699	0.6-	0.1-
1998 09 26	704	0.8-	0.5-	2000 02 02	704	0.3+	0.0	2000 04 03	699	0.4+	0.6+
1998 09 26	704	0.3+	0.9-	2000 02 02	704	0.3+	1.0-	2000 04 03	699	0.9-	0.0
1998 09 26	704	0.0	0.6-	2000 02 02	704	0.7-	1.6+				
1998 09 27	704	0.3+	0.3-	2000 02 02	704	0.8-	0.5+				

(14584)* 1998 RH₆₃

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	162.53574	(2000.0)	
<i>n</i>	0.30039848	ω 242.00539	+0.98376838 +0.17168253
<i>a</i>	2.2080263	Ω 108.06979	-0.13922662 +0.91380231
<i>e</i>	0.1873573	<i>i</i> 3.14761	-0.11320657 +0.36809028
<i>P</i>	3.28	<i>H</i> 14.6	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1995 11 26	327	0.3+	0.6-	1998 09 26	704	0.1+	0.4+	2000 02 25	703	0.5+	0.2+
1995 11 26	327	0.0	0.6-	1998 09 26	704	0.5+	0.2+	2000 03 05	704	0.2+	0.3+
1997 04 07	566	0.3+	0.5-	1998 09 26	704	0.4+	0.2-	2000 03 05	704	0.6+	0.0
1997 04 07	566	0.5-	0.2+	1998 09 27	704	1.7-	0.1-	2000 03 05	704	0.1-	1.0+
1997 04 07	566	0.1+	0.1-	1998 09 27	704	0.3-	0.2+	2000 03 05	704	0.2+	0.2+
1998 06 23	691	0.7-	0.7+	1998 09 27	704	0.2-	0.4+	2000 03 05	704	0.4+	0.0
1998 06 23	691	0.7-	0.6+	1998 09 29	704	0.2+	0.2+	2000 03 05	106	(3.2+	0.1+)
1998 06 23	691	0.8-	0.6+	1998 09 29	704	0.3-	0.1+	2000 03 05	106	0.2-	0.5+
1998 06 29	704	1.0-	0.0	1998 09 29	704	1.0-	0.6+	2000 03 05	106	0.2-	0.1+
1998 06 29	704	(0.6-	3.2+)	1998 09 29	704	0.8-	0.3+	2000 03 06	704	0.2-	0.5+
1998 06 29	704	0.7-	0.3-	1998 09 29	704	0.5-	0.6-	2000 03 06	704	0.0	0.3+
1998 06 29	704	1.9-	0.8+	1998 11 15	699	0.8-	0.3-	2000 03 06	704	0.1+	0.1+
1998 08 04	699	0.6-	1.0+	1998 11 15	699	0.5-	0.7-	2000 03 11	699	0.1+	1.0+

1998 08 04	699	0.0	0.6+	1998 11 15	699	0.4-	0.9+	2000 03 11	699	0.0	0.0
1998 08 04	699	0.4-	0.2+	1998 12 08	704	1.0-	1.5-	2000 03 11	699	0.1-	0.1-
1998 09 14	704	0.6+	0.2+	1998 12 08	704	(1.2+	2.8-)	2000 03 11	699	0.3+	0.6+
1998 09 14	704	0.8+	0.3-	1998 12 08	704	0.5+	0.8-	2000 03 12	704	0.3-	0.4+
1998 09 14	704	0.4+	0.1-	1998 12 08	704	0.2-	0.2-	2000 03 12	704	0.3+	1.0+
1998 09 17	699	0.9+	0.5+	2000 02 04	704	0.4+	0.9+	2000 03 12	704	0.3+	0.5+
1998 09 17	699	0.9+	0.4+	2000 02 04	704	1.5+	0.8+	2000 03 12	704	0.4+	1.1+
1998 09 17	699	0.6+	0.5+	2000 02 04	704	1.0+	1.1+	2000 03 12	704	0.2+	1.0+
1998 09 18	704	0.2-	1.1+	2000 02 11	704	(0.1+	2.1-)	2000 04 03	699	0.5-	0.7+
1998 09 18	704	0.4+	1.4+	2000 02 11	704	0.4-	1.2-	2000 04 03	699	0.0	0.4+
1998 09 18	704	0.3-	1.7+	2000 02 11	704	0.0	0.2+	2000 04 03	704	0.5+	0.0
1998 09 18	704	1.4+	1.0+	2000 02 11	704	0.8+	0.6+	2000 04 03	699	0.5-	0.1-
1998 09 18	704	0.0	0.3+	2000 02 25	703	0.5+	0.0	2000 04 03	704	0.5-	0.9+
1998 09 26	704	0.2-	0.2+	2000 02 25	703	0.0	0.4+	2000 04 03	699	0.9-	1.1+
1998 09 26	704	0.5-	0.7+	2000 02 25	703	1.2+	0.2+	2000 04 03	704	0.4-	0.9+

(14585)* 1998 RX₆₄ = 1983 QD₁

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid
 Research Team at Socorro.

Id. G. V. Williams (*MPC* 33003)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	81.59572	(2000.0)	
<i>n</i>	0.26601656	ω 247.08836	+0.23995270 -0.97076428
<i>a</i>	2.3944012	Ω 189.03472	+0.90468636 +0.22595604
<i>e</i>	0.1510576	<i>i</i> 2.29156	+0.35208706 +0.08099747
<i>P</i>	3.71	<i>H</i> 15.3	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1983 08 30	675	0.8-	0.1-	1998 09 27	704	0.4-	0.0	2000 03 14	703	0.2+	0.3+
1983 08 31	675	0.9-	0.5+	1998 10 14	699	0.4+	0.6+	2000 03 14	703	1.0+	0.4-
1983 09 01	675	0.7+	1.2-	1998 10 14	699	(0.2+	2.1+)	2000 03 14	703	1.8-	0.9+
1983 09 02	675	0.4+	0.1-	1998 10 14	699	0.8+	0.1-	2000 03 14	703	0.3+	0.4-
1983 09 02	675	0.7+	0.4+	1998 10 16	691	1.0-	0.2-	2000 03 14	703	0.2+	0.1+
1996 02 16	691	0.4+	0.3-	1998 10 16	691	0.8-	0.5-	2000 03 14	703	0.2+	0.7+
1996 02 16	691	0.4-	0.1-	1998 10 16	691	1.0-	1.4-	2000 03 14	703	0.6-	0.3-
1996 02 16	691	0.1-	0.2-	1998 10 27	691	1.0-	0.0	2000 03 14	703	0.3+	0.8+
1998 09 14	704	1.0+	1.6-	1998 10 27	691	0.4-	0.6+	2000 03 26	699	1.0-	0.2-
1998 09 14	704	0.1+	0.8+	1998 10 27	691	1.1-	0.2-	2000 03 26	699	1.0-	0.2+
1998 09 14	704	0.6+	0.2+	2000 02 25	691	0.1-	0.7-	2000 03 26	699	0.1+	0.2+
1998 09 18	704	0.3-	0.5+	2000 02 25	691	0.3-	0.7-	2000 03 26	699	0.2-	0.1+
1998 09 18	704	0.4+	0.6+	2000 02 25	691	0.5-	0.9-	2000 04 05	704	0.1+	0.7+
1998 09 18	704	1.5+	0.2-	2000 03 08	704	0.2+	0.3-	2000 04 05	704	0.0	0.0
1998 09 18	704	0.6+	0.8+	2000 03 08	704	0.6-	1.0-	2000 04 05	704	0.7+	0.4-
1998 09 18	704	0.2-	0.4+	2000 03 08	704	1.3-	0.3+	2000 04 05	704	0.5+	0.3-
1998 09 25	699	0.5-	0.5+	2000 03 08	704	1.0+	0.1+	2000 04 06	704	0.4-	0.0
1998 09 25	699	0.0	0.1+	2000 03 08	704	0.4+	0.5-	2000 04 06	704	0.5-	0.2+
1998 09 25	699	(0.6+	2.1+)	2000 03 10	704	0.1+	0.2+	2000 04 06	704	0.0	0.5+
1998 09 26	704	0.2+	0.9+	2000 03 10	704	0.1-	0.8+	2000 04 06	704	0.0	0.4-
1998 09 26	704	0.2-	1.2+	2000 03 10	704	0.3+	0.6+	2000 04 07	699	0.2+	0.1-
1998 09 26	704	0.1+	0.8-	2000 03 10	704	0.6+	0.5+	2000 04 07	699	0.4+	0.3+
1998 09 26	704	0.9+	0.7+	2000 03 10	704	0.3+	1.2+	2000 04 07	699	0.2+	0.6+
1998 09 26	704	1.7-	1.1-	2000 03 11	704	0.4+	0.4-	2000 04 07	699	0.2+	1.1+
1998 09 27	704	0.2-	0.9+	2000 03 11	704	0.9+	0.1-	2000 04 13	691	0.2+	0.0
1998 09 27	704	0.0	1.0+	2000 03 11	704	0.1+	0.4+	2000 04 13	691	0.1+	0.3+
1998 09 27	704	0.3+	1.7+	2000 03 11	704	0.1+	0.9+	2000 04 13	691	0.0	0.1+
1998 09 27	704	0.6-	0.5+	2000 03 11	704	0.9+	1.3+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	22.77289		(2000.0)	P	Q
<i>n</i>	0.24184681	ω	82.30886	−0.57301897	−0.81473707
<i>a</i>	2.5513839	Ω	43.05331	+0.69142535	−0.53865564
<i>e</i>	0.2180935	<i>i</i>	7.45838	+0.43997755	−0.21460102
<i>P</i>	4.08	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 09 28	675	0.5−	0.8−	1998 09 26	704	0.7+	0.6−	2000 03 05	704	0.2−	0.3+
1996 02 29	327	1.1+	0.6−	1998 09 26	704	0.8+	0.1+	2000 03 05	704	0.2+	0.1+
1996 02 29	327	0.4−	0.4−	1998 09 26	704	0.1−	0.6−	2000 03 09	704	0.9−	0.3−
1996 02 29	327	0.5+	0.7−	1998 09 26	704	0.2−	0.5+	2000 03 09	704	0.2+	0.5+
1996 02 29	327	0.0	0.2−	1998 09 26	704	0.5+	0.8−	2000 03 09	704	0.3+	0.3+
1996 02 29	327	0.3−	0.1−	1998 09 27	704	0.5−	0.3−	2000 03 09	704	0.0	0.3+
1996 04 23	566	0.2−	0.0	1998 09 27	704	0.4+	0.3−	2000 03 09	704	1.7−	0.3−
1996 04 23	566	0.2−	0.1+	1998 09 27	704	0.8+	0.0	2000 03 12	704	0.4+	0.0
1996 04 23	566	0.7−	0.0	1998 09 27	704	0.6−	0.1+	2000 03 12	704	0.2+	0.1+
1998 08 28	704	0.7−	1.5−	1998 09 27	704	0.9−	1.0+	2000 03 12	704	0.3+	0.1+
1998 08 28	704	0.3−	0.7+	1999 12 17	699	0.5+	1.3−	2000 03 12	704	0.3+	0.3+
1998 08 28	704	0.4−	0.1+	1999 12 17	699	0.9+	0.4+	2000 03 12	704	0.5+	0.1+
1998 08 28	704	0.1−	0.9+	1999 12 17	699	0.2+	0.1+	2000 03 13	704	1.0−	0.2−
1998 08 28	704	0.0	1.1−	2000 02 03	704	1.1+	0.4−	2000 03 13	704	0.7−	0.2+
1998 09 14	704	1.3+	0.2+	2000 02 03	704	0.8+	0.6+	2000 03 13	704	1.2−	0.4−
1998 09 14	704	(0.7+	2.4−)	2000 02 03	704	0.4+	0.3+	2000 03 13	704	0.8−	0.2−
1998 09 14	704	0.1+	0.5−	2000 02 03	704	0.5+	0.7+	2000 03 13	704	0.9−	0.1+
1998 09 18	704	1.0+	0.6+	2000 02 03	704	0.4+	1.4+	2000 04 04	704	0.3+	0.2+
1998 09 18	704	1.7−	0.3−	2000 02 24	411	0.1+	0.8−	2000 04 04	704	0.2+	0.5+
1998 09 18	704	0.2+	1.1−	2000 02 24	411	0.2−	1.2−	2000 04 04	704	0.0	0.2+
1998 09 18	704	1.7−	1.1−	2000 02 25	411	0.9−	1.6−	2000 04 04	704	0.2+	0.6+
1998 09 18	704	0.1+	0.4−	2000 02 25	411	1.0−	0.4−	2000 04 04	704	0.1−	0.0
1998 09 24	699	1.9+	0.5+	2000 03 05	704	0.0	0.2+	2000 04 06	608	1.0+	0.6−
1998 09 24	699	0.6+	0.9+	2000 03 05	704	0.2+	0.3+	2000 04 06	608	0.2+	0.6−
1998 09 24	699	0.7+	1.3+	2000 03 05	704	0.0	0.5+	2000 04 06	608	0.6+	0.4−

(14587)* 1998 RW₇₀ = 1990 DE₈ = 1995 YF₁₅

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33006)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	147.78830		(2000.0)	P	Q
<i>n</i>	0.30242311	ω	243.49658	+0.96296675	−0.26321725
<i>a</i>	2.1981605	Ω	131.70383	+0.26673562	+0.89843615
<i>e</i>	0.1469315	<i>i</i>	4.48713	+0.03933378	+0.35146716
<i>P</i>	3.26	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 02 24	809	0.9−	1.7−	1998 09 27	704	1.1+	0.3+	2000 03 11	699	0.2−	0.3+
1990 02 24	809	(1.8−	2.2−)	1998 09 27	704	0.5+	0.3−	2000 03 11	699	0.2+	0.3+
1990 02 24	809	(2.8−	2.1−)	1998 09 27	704	0.9+	0.4−	2000 03 11	699	0.0	0.6+
1995 12 20	691	0.3+	0.0	1998 09 27	704	0.2+	0.3+	2000 03 11	699	0.1+	0.1+
1995 12 20	691	0.2+	0.1+	1998 09 27	704	0.7+	0.5+	2000 03 12	704	0.4+	0.2−
1995 12 20	691	0.2+	0.0	1998 11 15	699	0.5−	0.7+	2000 03 12	704	0.0	0.2−
1995 12 27	691	0.3+	0.0	1998 11 15	699	0.5+	0.7+	2000 03 12	704	0.0	0.2−
1995 12 27	691	0.4+	0.2−	1998 11 15	699	0.5+	1.0+	2000 03 12	704	0.2−	0.8−
1995 12 27	691	0.2+	0.2−	1998 12 08	704	0.4−	1.1+	2000 03 12	704	0.3+	0.7−
1996 01 14	691	0.1−	0.3−	1998 12 08	704	1.6−	0.3−	2000 03 28	704	0.3+	0.1+
1996 01 14	691	0.1−	0.1−	1998 12 08	704	0.6+	0.5+	2000 03 28	704	0.4+	0.1−
1996 01 14	691	0.3−	0.2−	1998 12 08	704	0.1−	1.2+	2000 03 28	704	0.4+	0.8+
1998 09 14	704	1.1−	0.5+	2000 01 08	704	0.7−	0.7−	2000 03 28	704	0.2+	0.9+
1998 09 14	704	0.8−	0.3+	2000 01 08	704	0.3+	0.4−	2000 04 02	699	0.1−	0.7+
1998 09 14	704	0.4−	0.6−	2000 01 08	704	0.7+	0.9−	2000 04 02	699	0.1+	0.3+
1998 09 17	910	0.7+	1.3+	2000 01 08	704	0.7−	0.7−	2000 04 02	699	0.0	0.5+
1998 09 17	910	0.7+	1.3+	2000 02 07	691	0.3−	0.1+	2000 04 02	699	0.2−	0.6+
1998 09 17	910	0.5+	1.1+	2000 02 07	691	0.8−	0.1+	2000 04 03	704	0.5+	0.1−
1998 09 17	699	0.3−	0.6+	2000 02 07	691	0.6−	0.2+	2000 04 03	704	0.6+	0.6+

1998 09 17	699	0.2−	1.0+	2000 02 11	704	1.6+	0.8+	2000 04 03	704	0.0	0.6+
1998 09 17	699	0.6−	0.7+	2000 02 11	704	0.9−	0.7+	2000 04 03	704	0.4+	1.2+
1998 09 18	704	0.9−	1.1+	2000 02 11	704	0.2+	1.2+	2000 04 03	704	0.9−	0.6+
1998 09 18	704	1.4−	0.7+	2000 02 11	704	0.1+	0.7+	2000 04 08	704	0.7+	0.4+
1998 09 18	704	0.5−	1.1+	2000 02 11	704	0.4+	1.6+	2000 04 08	704	0.2+	1.2+
1998 09 18	704	1.0−	0.1+	2000 03 02	703	1.3+	0.4+	2000 04 08	704	0.6+	0.1+
1998 09 18	704	1.7−	0.2+	2000 03 02	703	1.3−	1.5+	2000 04 08	704	0.7+	0.0
1998 09 26	704	0.2+	0.0	2000 03 02	703	0.4−	0.4−	2000 04 08	704	0.3+	0.8+
1998 09 26	704	1.1+	0.5−	2000 03 02	703	0.5−	0.0	2000 04 10	704	0.0	0.5+
1998 09 26	704	0.2−	1.1−	2000 03 05	608	0.4+	0.1−	2000 04 10	704	0.1+	0.4+
1998 09 26	704	0.2−	0.6−	2000 03 05	608	0.2+	0.3−	2000 04 10	704	0.6+	0.7+
1998 09 26	704	1.0−	0.9−	2000 03 05	608	0.1+	0.3−	2000 04 10	704	0.7+	0.5+

(14588)* 1998 RH₇₃ = 1993 FN₂₁ = 1997 HB₁₇ = 1997 JL₁₅

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33008)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	123.30804		(2000.0)	P	Q
<i>n</i>	0.27153114	ω	192.07901	+0.86239180	−0.50497571
<i>a</i>	2.3618716	Ω	198.38297	+0.47339926	+0.82946767
<i>e</i>	0.1202861	<i>i</i>	6.51376	+0.17936976	+0.23871097
<i>P</i>	3.63	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1993 03 21	809	0.4−	1.1+	1998 09 15	699	1.0+	0.5+	1998 10 29	704	(2.5−	1.4+)
1993 03 22	809	0.8+	0.5+	1998 09 15	699	0.8+	0.0	1998 10 29	704	0.4−	0.3+
1993 03 26	809	0.3+	0.8−	1998 09 18	704	0.9+	0.9+	1998 10 29	704	0.7−	0.3+
1993 03 27	809	0.2−	0.7+	1998 09 18	704	0.4−	0.9+	1998 11 06	699	0.7+	1.8−
1993 04 18	413	(0.4−	2.8+)	1998 09 18	704	1.0+	1.0+	1998 11 06	699	0.0	0.3+
1997 04 30	691	0.0	0.1+	1998 09 18	704	0.6−	1.5+	1998 11 06	699	(2.1+	0.4−)
1997 04 30	691	0.4+	0.2+	1998 09 18	704	1.4+	0.6+	1998 11 25	699	0.1+	1.2+
1997 04 30	691	0.5+	0.4+	1998 09 26	704	0.2+	1.5+	1998 11 25	699	0.3+	0.6+
1997 05 03	809	(5.3+	3.7+)	1998 09 26	704	0.6−	0.9+	1998 11 25	699	0.1−	1.4+
1997 05 03	809	(2.9+	3.9+)	1998 09 26	704	1.2−	1.0+	1998 12 18	327	0.0	0.5−
1997 05 03	809	(1.1+	5.0+)	1998 09 26	704	0.2+	1.5+	1998 12 18	327	0.4−	0.2+
1997 05 04	809	(4.1−	2.2−)	1998 09 26	704	0.6−	0.9+	1998 12 18	327	0.1−	0.4−
1997 05 04	809	(4.0−	3.1−)	1998 09 27	704	0.0	0.3−	2000 02 08	704	0.6+	0.1−
1997 05 04	809	(3.5−	2.5−)	1998 09 27	704	1.0−	0.5−	2000 02 08	704	0.6+	0.2−
1997 05 10	691	0.2+	0.1+	1998 09 27	704	0.2+	0.8+	2000 02 08	704	0.5+	0.2−
1997 05 10	691	0.0	1.5+	1998 09 27	704	0.4−	0.5+	2000 02 08	704	0.9+	0.1−
1997 05 10	691	0.5−	0.9+	1998 09 27	704	0.4+	0.4+	2000 03 08	704	0.9−	0.5+
1998 08 28	699	0.6+	0.2−	1998 10 28	704	0.9+	1.2+	2000 03 08	704	0.7−	1.6+
1998 08 28	699	0.0	0.3+	1998 10 28	704	1.3−	0.8−	2000 03 08	704	0.3+	0.0
1998 08 28	699	0.4−	0.1−	1998 10 28	704	0.0	1.1−	2000 03 08	704	1.1−	0.4+
1998 09 14	704	0.2+	0.3−	1998 10 28	704	0.3−	0.2+	2000 04 04	699	1.0+	1.6+
1998 09 14	704	0.1−	0.6−	1998 10 28	704	0.6−	0.1+	2000 04 04	699	0.9+	0.9+
1998 09 14	704	0.9−	0.7−	1998 10 29	704	0.2−	0.7−	2000 04 04	699	0.2−	1.2+
1998 09 15	699	0.8+	0.2−	1998 10 29	704	1.8−	1.3−	2000 04 04	699	0.5+	1.7+

(14589)* 1998 RW₇₉

2000 APR. 18

M.P.C. 39873

1977 03 14	381	1.3+	1.5-	1998 10 19	699	0.2+	0.1+	2000 04 05	704	0.0	0.1+
1977 03 15	381	0.1+	1.3-	2000 03 04	703	(0.9-	2.5+)	2000 04 05	704	0.4+	0.2+
1977 03 15	381	2.0-	2.3-	2000 03 04	703	1.4-	0.7+	2000 04 06	704	0.4+	0.1-
1992 01 29	675	0.2+	1.0+	2000 03 04	703	0.9+	0.9+	2000 04 06	704	0.4+	0.0
1992 01 29	675	0.2-	0.4-	2000 03 04	703	0.0	1.0+	2000 04 06	704	0.6+	0.4+
1992 01 31	675	0.3+	0.3+	2000 03 14	703	0.4-	0.9+	2000 04 06	704	0.6+	0.2+
1992 01 31	675	0.5+	1.2+	2000 03 14	703	0.3+	1.3+	2000 04 06	704	0.1+	0.5+
1994 09 11	691	0.0	0.3+	2000 03 14	703	0.4-	0.1+	2000 04 07	704	0.2-	0.2+
1994 09 11	691	0.1-	0.3+	2000 03 14	703	0.9+	1.2+	2000 04 07	704	0.3-	0.1+
1994 09 11	691	0.5+	0.6+	2000 03 27	691	0.1+	0.1-	2000 04 07	704	0.6-	0.1+
1998 09 14	704	0.9-	0.3-	2000 03 27	691	0.0	0.0	2000 04 07	704	0.2-	0.8-
1998 09 14	704	(2.4-	1.9+)	2000 03 27	691	0.5-	0.1-	2000 04 07	704	0.2-	0.2-
1998 09 14	704	0.2-	1.7+	2000 03 30	120	0.4-	0.6-	2000 04 08	120	0.5-	0.4-
1998 09 18	704	0.2-	0.3-	2000 03 30	120	0.5+	0.4-	2000 04 08	120	0.4-	0.5+
1998 09 18	704	1.4-	0.7+	2000 03 30	120	0.7-	0.7-	2000 04 08	120	1.6-	0.1-
1998 09 18	704	1.5+	1.9+	2000 04 02	699	0.2-	0.0	2000 04 08	120	1.0+	0.1+
1998 09 18	704	0.8+	1.2-	2000 04 02	699	0.5+	0.3+	2000 04 10	704	0.2-	0.1-
1998 09 18	704	0.2-	0.1-	2000 04 02	699	0.3+	0.2+	2000 04 10	704	1.0+	0.6+
1998 09 19	691	0.0	0.2+	2000 04 02	699	0.5+	0.2+	2000 04 10	704	0.4+	0.2+
1998 09 19	691	0.1+	0.2-	2000 04 03	699	0.0	0.1-	2000 04 10	704	0.1+	0.4+
1998 09 19	691	0.1-	0.2+	2000 04 03	699	0.2+	0.0	2000 04 10	704	0.4+	0.2+
1998 10 14	699	1.1-	0.2+	2000 04 03	699	0.3-	0.0				
1998 10 14	699	0.1-	0.3-	2000 04 03	699	0.3-	0.7+				

(14590)* 1998 RL₈₀

Discovered 1998 Sept. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.30949778	ω	86.19464	-0.78800299	-0.61278002		
<i>a</i>	2.1645337	Ω	56.00425	+0.53249006	-0.72692794		
<i>e</i>	0.0198650	<i>i</i>	4.12224	+0.30903984	-0.30996196		
<i>P</i>	3.18	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 12 26	691	0.9+	0.5-	1998 10 28	704	1.1-	0.1+	2000 03 12	704	0.4-	0.0
1995 12 26	691	0.8+	0.5-	1998 10 28	704	0.1+	1.0+	2000 03 12	704	0.2-	0.3-
1995 12 26	691	0.8+	0.1-	1998 10 28	704	1.5-	0.7+	2000 03 12	704	0.5-	0.5-
1997 04 11	809	0.8-	0.4+	1998 10 28	704	0.7+	0.9+	2000 03 26	699	0.8+	0.0
1997 04 11	809	0.2+	0.1+	1998 10 29	704	0.0	1.3+	2000 03 26	699	0.1+	0.0
1997 04 11	809	0.6-	0.5+	1998 10 29	704	0.6+	0.1-	2000 03 26	699	0.7+	0.1-
1998 09 14	704	0.4-	0.5-	1998 10 29	704	1.6+	0.3+	2000 03 26	699	0.4+	0.1+
1998 09 14	704	1.2+	1.0+	1998 10 29	704	0.8+	0.3-	2000 03 28	704	0.3-	0.7-
1998 09 14	704	1.5-	1.0+	1998 10 29	704	1.5-	0.9-	2000 03 28	704	0.4+	0.1-
1998 09 17	699	0.1-	0.5+	1998 11 06	699	0.9-	1.5+	2000 03 28	704	0.1+	0.2-
1998 09 17	699	0.4+	0.1+	1998 11 06	699	0.5-	0.2-	2000 04 05	704	0.1+	0.2+
1998 09 17	699	0.0	0.1+	1998 11 06	699	0.7-	1.3+	2000 04 05	704	0.0	0.6+
1998 09 18	704	0.1+	0.0	1999 01 13	910	1.4-	0.7-	2000 04 05	704	0.4+	0.6+
1998 09 18	704	1.2+	1.0-	1999 01 13	910	1.7-	0.2-	2000 04 05	704	0.7+	0.4+
1998 09 18	704	0.1-	0.4-	1999 01 13	910	1.4-	0.3-	2000 04 05	704	0.0	0.0
1998 09 18	704	0.2+	0.2-	1999 01 14	910	1.6-	0.9-	2000 04 07	699	0.3-	0.4+
1998 09 26	704	0.3-	0.3+	1999 01 14	910	1.9-	0.5-	2000 04 07	699	0.0	0.5+
1998 09 26	704	0.8+	0.8-	1999 01 14	910	1.6-	0.6-	2000 04 07	699	0.2-	0.4+
1998 09 26	704	1.0+	0.7-	2000 01 08	704	1.0-	0.8-	2000 04 07	699	0.5-	0.7+
1998 09 26	704	1.3+	0.5-	2000 01 08	704	0.6+	0.0	2000 04 08	704	0.3+	0.1-
1998 09 26	704	1.1+	1.4-	2000 01 08	704	0.2+	0.0	2000 04 08	704	0.1-	0.1-
1998 09 27	704	0.6-	0.3+	2000 01 08	704	0.3-	0.8-	2000 04 08	704	0.0	0.0
1998 09 27	704	0.1+	0.4+	2000 01 08	704	0.6+	0.7-	2000 04 08	704	0.3+	0.2+
1998 09 27	704	0.2-	0.8+	2000 01 13	699	0.3-	0.2+	2000 04 08	704	0.1+	0.2+
1998 09 27	704	0.1+	0.4-	2000 01 13	699	1.0-	0.6+	2000 04 10	704	0.5+	0.1+
1998 09 27	704	0.5-	0.5-	2000 01 13	699	0.1+	1.1+	2000 04 10	704	0.5+	0.3+
1998 10 17	699	0.3-	0.5-	2000 03 03	106	0.2+	0.0	2000 04 10	704	0.8+	0.3-
1998 10 17	699	0.1+	0.8+	2000 03 03	106	0.6+	0.1-	2000 04 10	704	0.1+	0.1-
1998 10 17	699	0.9+	0.5+	2000 03 03	106	1.3-	0.1+	2000 04 10	704	0.0	0.2+
1998 10 28	704	0.8-	1.1+	2000 03 12	704	0.3-	0.3-				

(14591)* 1998 SZ₂₁ = 1996 AO₂₀

Discovered 1998 Sept. 23 at Višnja.

Id. S. Nakano (*MPC* 34928)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27618613	ω	53.63689	+0.30636342	-0.95182356		
<i>a</i>	2.3352577	Ω	18.53612	+0.85956116	+0.27067060		
<i>e</i>	0.0825615	<i>i</i>	2.37378	+0.40901841	+0.14411573		
<i>P</i>	3.57	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 04 16	413	0.5+	1.0+	1998 10 10	699	0.4-	1.4+	2000 03 10	704	1.0+	0.4+
1996 01 13	399	0.6+	1.0-	1998 10 20	691	0.4+	0.8+	2000 03 11	704	0.4+	0.3+
1996 01 13	399	0.5+	0.4-	1998 10 20	691	0.4+	0.5+	2000 03 11	704	0.2+	0.0
1996 01 18	399	1.5-	1.1+	1998 10 20	691	0.3+	0.6+	2000 03 11	704	0.4+	0.1-
1996 01 18	399	0.9-	1.2+	1998 10 28	704	0.9+	0.5-	2000 03 11	704	0.8+	0.1-
1996 01 21	399	0.6+	1.3-	1998 10 28	704	1.6+	1.5-	2000 03 11	704	0.4+	0.6+
1996 01 21	399	0.4+	1.2-	1998 10 28	704	0.2+	0.6-	2000 03 14	703	0.1-	0.7-
1998 09 23	120	0.6-	0.1+	1998 10 28	704	1.1-	1.0-	2000 03 14	703	0.3-	1.0+
1998 09 23	120	0.0	1.2-	1998 10 29	704	(0.6+	2.8+)	2000 03 14	703	1.2+	1.2+
1998 09 23	120	(2.4-	0.6+)	1998 10 29	704	(1.4+	3.0+)	2000 03 14	703	0.3+	0.6+
1998 09 24	120	0.3+	0.1-	1998 10 29	704	(0.6-	3.1+)	2000 03 30	703	1.5-	0.7+
1998 09 24	120	0.7+	0.4+	1998 10 29	704	(0.9+	3.0+)	2000 03 30	703	0.2+	0.4+
1998 09 24	120	0.2+	0.2+	1998 10 29	704	(0.4+	3.0+)	2000 03 30	703	0.4+	0.4+
1998 09 26	704	0.4-	0.6-	1998 10 29	691	0.0	0.4+	2000 03 30	703	0.1+	0.0
1998 09 26	704	0.6+	0.9-	1998 10 29	691	0.1+	0.5+	2000 04 05	704	0.1-	0.5+
1998 09 26	704	0.6-	0.0	1998 10 29	691	0.0	0.4+	2000 04 05	704	0.1+	0.2+
1998 09 26	704	1.8-	0.3+	2000 02 27	703	0.9-	0.5-	2000 04 05	704	0.3+	0.4+
1998 09 26	704	0.6-	0.4-	2000 02 27	703	0.2+	1.3-	2000 04 05	704	0.2+	0.4+
1998 09 26	327	0.6-	0.4+	2000 02 27	703	0.1-	0.4-	2000 04 05	704	0.6+	0.3+
1998 09 26	327	0.8-	1.0+	2000 02 27	703	0.0	0.2-	2000 04 06	704	0.6-	0.1-
1998 09 26	327	0.6-	0.7+	2000 03 08	704	0.9-	1.0+	2000 04 06	704	0.6+	0.0
1998 09 27	704	0.1+	0.8+	2000 03 08	704	0.5+	0.4+	2000 04 06	704	0.3+	0.2+
1998 09 27	704	1.5-	0.8+	2000 03 08	704	0.2-	0.9+	2000 04 07	699	0.5+	0.2-
1998 09 27	704	0.7-	1.1+	2000 03 08	704	0.9-	0.4+	2000 04 07	699	0.4-	0.7+
1998 09 27	704	0.4-	1.7+	2000 03 10	704	0.3+	0.0	2000 04 07	699	0.4-	0.0
1998 09 27	704	(1.0-	3.3+)	2000 03 10	704	0.5+	0.2+	2000 04 07	699	0.7-	0.5-
1998 10 10	699	0.3+	1.6+	2000 03 10	704	0.5+	0.1-				
1998 10 10	699	0.6+	0.4+	2000 03 10	704	0.4+	0.1+				

(14592)* 1998 SV₂₂ = 1994 PO₂₉

Discovered 1998 Sept. 20 by F. B. Zoltowski at Woomera.

Id. G. V. Williams (*MPC* 32726)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.26714850	ω	206.26231	+0.62232732	-0.78151734		
<i>a</i>	2.3876329	Ω	205.32498	+0.73506897	+0.60282457		
<i>e</i>	0.1049242	<i>i</i>	5.90922	+0.26903961	+0.16072709		

1998 09 14	699	1.2−	0.5+	1998 10 28	704	0.7−	0.5+	2000 03 13	704	1.1+	0.7+
1998 09 20	809	(1.3−	4.6−)	1998 10 28	704	0.7−	0.7−	2000 03 26	699	0.7−	0.0
1998 09 20	809	(2.5−	5.6−)	1998 10 28	704	0.1+	0.4−	2000 03 26	699	1.2−	0.1−
1998 09 20	809	(2.7−	5.6−)	1998 10 29	704	0.9+	0.4−	2000 03 26	699	1.3−	0.3+
1998 09 20	426	0.5−	0.7−	1998 10 29	704	0.3+	0.6+	2000 03 26	699	0.1+	0.3+
1998 09 20	426	0.2+	0.7−	1998 10 29	704	0.6+	0.3−	2000 04 04	704	0.7+	1.0−
1998 09 20	426	0.1+	0.5−	1998 10 29	704	0.8+	0.1+	2000 04 04	704	0.8+	0.0
1998 09 21	809	1.9+	0.2+	1998 10 29	704	0.0	0.2+	2000 04 04	704	0.7+	0.7+
1998 09 21	809	1.3+	1.2−	1998 10 30	327	0.5+	0.2+	2000 04 04	704	1.2+	0.4−
1998 09 21	809	1.6+	0.0	1998 10 30	327	0.3+	0.3+	2000 04 04	704	0.1+	0.6+
1998 09 23	426	0.6−	0.4−	1998 10 30	327	0.1+	0.4−	2000 04 05	704	0.3+	0.1+
1998 09 23	426	0.7−	0.3−	1998 11 10	704	0.2+	0.3−	2000 04 05	704	0.1+	0.6+
1998 09 30	691	1.0−	0.1+	1998 11 10	704	0.1+	0.2+	2000 04 05	704	0.3+	0.3+
1998 09 30	691	1.1−	0.1+	1998 11 10	704	0.3+	0.4+	2000 04 05	704	0.3−	0.4+
1998 09 30	691	1.0−	0.1+	1998 11 10	704	0.3−	0.2+	2000 04 05	704	0.1+	0.6+
1998 10 13	327	0.6−	0.5+	1998 11 11	704	0.7−	0.5−	2000 04 07	699	0.1+	1.1+
1998 10 13	327	0.7−	0.0	1998 11 11	704	0.8+	0.3−	2000 04 07	699	0.7+	0.1−
1998 10 13	327	0.7−	0.4+	1998 11 11	704	0.7+	0.0	2000 04 07	699	0.1+	1.1+
1998 10 14	704	0.2−	0.4+	1998 11 11	704	0.5+	0.0	2000 04 07	699	0.7−	0.5+
1998 10 14	704	0.8−	1.2+	1998 11 11	704	1.1−	0.7+				
1998 10 14	704	0.2+	0.4+	1998 11 14	699	1.4+	1.5+				

(14593)* 1998 SA₂₆

Discovered 1998 Sept. 22 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams	
<i>M</i>	74.40548	(2000.0)	P	Q	
<i>n</i>	0.28165667	ω	43.55668	−0.17129522	−0.98195066
<i>a</i>	2.3049209	Ω	56.46144	+0.87550172	−0.18904312
<i>e</i>	0.1414718	<i>i</i>	5.52098	+0.45183480	−0.00596652
<i>P</i>	3.50	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 07 21	413	0.3+	0.0	1998 09 27	704	0.3+	0.6+	1999 01 05	910	(4.2+	1.6+)
1990 07 21	413	0.2+	0.4−	1998 09 27	704	0.7+	0.5+	2000 03 14	703	(0.2−	2.1−)
1991 09 11	675	1.0−	0.2−	1998 09 27	704	0.0	0.9+	2000 03 14	703	0.0	1.7−
1991 09 11	675	0.1−	0.1+	1998 10 17	699	0.4−	0.9−	2000 03 14	703	1.6−	1.1−
1991 10 01	413	0.1−	0.1−	1998 10 17	699	0.3−	0.2−	2000 03 14	703	0.1−	1.1−
1991 10 01	413	0.9+	0.3−	1998 10 17	699	1.1+	0.1−	2000 04 07	704	0.7−	1.7+
1993 03 29	413	(1.6+	2.9−)	1998 10 19	699	1.1+	0.2+	2000 04 07	704	0.1+	0.6+
1993 03 29	413	(4.1+	2.7−)	1998 10 19	699	0.5+	0.3−	2000 04 07	699	0.4−	0.9−
1998 09 22	699	0.6−	0.2−	1998 10 19	699	1.0+	0.2−	2000 04 07	704	0.2+	1.1+
1998 09 22	699	1.3−	0.5−	1998 10 28	704	0.7−	0.8+	2000 04 07	699	0.4−	1.2−
1998 09 22	699	0.9−	0.6+	1998 10 28	704	1.1+	1.4−	2000 04 07	699	0.2−	0.2−
1998 09 24	699	0.5−	0.2+	1998 10 28	704	0.7+	0.6−	2000 04 07	704	0.7+	1.1+
1998 09 24	699	0.5−	0.4+	1998 10 28	704	1.1+	0.0	2000 04 07	699	0.7−	0.9−
1998 09 24	699	0.0	0.3−	1998 10 28	704	0.0	0.6+	2000 04 07	704	(0.5+	3.0+)
1998 09 26	704	0.2+	1.0−	1998 10 29	704	1.3+	0.5+	2000 04 08	704	1.0+	0.5−
1998 09 26	704	0.6+	0.3+	1998 10 29	704	0.7−	1.6−	2000 04 08	704	0.5+	0.8−
1998 09 26	704	0.0	0.5−	1998 10 29	704	1.2−	0.2+	2000 04 08	704	0.5−	0.8−
1998 09 26	704	0.5+	0.7−	1998 10 29	704	(0.2−	2.1+)	2000 04 08	704	0.5−	0.8−
1998 09 26	704	0.3−	0.3−	1998 10 29	704	0.0	0.7−	2000 04 08	704	0.8−	0.5−
1998 09 27	704	0.6−	1.2−	1999 01 05	910	(4.3+	1.2+)				
1998 09 27	704	0.6+	0.4−	1999 01 05	910	(4.4+	1.5+)				

(14594)* 1998 SS₂₆

Discovered 1998 Sept. 24 by P. Pravec at Ondřejov.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams	
<i>M</i>	95.95479	(2000.0)	P	Q	
<i>n</i>	0.24480045	ω	64.34986	+0.15628984	−0.98517299
<i>a</i>	2.5308199	Ω	17.10991	+0.79785436	+0.08368988
<i>e</i>	0.1495549	<i>i</i>	13.91773	+0.58223871	+0.14976708
<i>P</i>	4.03	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1984 03 05	413	0.2+	0.2+	1998 10 22	557	0.4+	0.2−	2000 02 06	557	0.2+	0.1+
1984 03 05	413	0.1−	0.4−	1998 10 22	557	0.7+	0.4−	2000 02 06	557	1.1−	0.6−
1993 08 13	413	1.5−	0.6+	1998 11 12	557	0.7−	0.0	2000 04 05	704	1.4−	0.1−
1993 08 13	413	1.1+	0.4−	1998 11 12	557	0.7−	0.1+	2000 04 05	704	0.1+	0.1+
1998 08 31	704	0.7−	0.1−	1998 11 14	704	0.4−	0.4−	2000 04 05	704	0.0	0.1+
1998 08 31	704	1.1−	1.2−	1998 11 14	704	0.2+	0.5−	2000 04 05	704	0.1−	0.4+
1998 08 31	704	1.6−	0.7−	1998 11 14	704	0.2−	0.8−	2000 04 05	704	0.3+	0.5+
1998 08 31	704	(2.0−	2.2+)	1998 11 14	704	0.4+	0.9−	2000 04 06	704	0.0	0.1−
1998 08 31	704	(4.2−	1.1−)	1998 11 14	704	0.1+	0.4−	2000 04 06	704	0.3+	0.6+
1998 09 24	557	0.3+	0.8+	1998 11 16	704	0.6−	0.2−	2000 04 06	704	0.1+	0.5+
1998 09 24	557	0.2+	0.8+	1998 11 16	704	0.1+	0.3+	2000 04 06	704	0.2+	0.9+
1998 09 24	557	0.2+	0.7+	1998 11 16	704	0.3−	0.0	2000 04 06	704	0.4+	1.0+
1998 09 25	557	0.2+	0.8+	1998 11 16	704	0.6−	0.4−	2000 04 07	704	0.3+	0.0
1998 09 25	557	0.2+	0.7+	1998 11 23	557	0.1+	0.0	2000 04 07	704	0.0	0.2+
1998 09 25	557	0.0	0.7+	1998 11 23	557	0.0	0.1+	2000 04 07	704	0.1+	0.5−
1998 09 27	557	0.3+	0.5+	1998 11 23	557	0.1+	0.0	2000 04 07	704	0.0	0.3−
1998 09 27	557	0.2+	0.4+	1999 01 14	699	0.4−	0.9+	2000 04 07	704	0.3+	0.4−
1998 09 27	557	0.2+	0.4+	1999 01 14	699	0.6−	0.0	2000 04 08	704	0.2+	0.2−
1998 09 27	557	0.0	0.4+	1999 01 14	699	1.2−	0.1+	2000 04 08	704	0.5+	0.8−
1998 09 29	704	0.4−	0.1−	2000 01 12	557	1.0−	0.9−	2000 04 08	704	1.0+	0.6−
1998 09 29	704	0.2+	1.1+	2000 01 12	557	1.0+	0.6−	2000 04 08	704	1.4+	0.0
1998 09 29	704	1.3+	1.8−	2000 01 12	557	0.0	0.3+	2000 04 08	704	0.4+	0.1+
1998 09 29	704	0.2+	0.3−	2000 02 02	557	0.3−	0.8+	2000 04 10	704	0.4−	0.1+
1998 09 29	704	0.4+	1.1+	2000 02 02	557	0.1−	0.1+	2000 04 10	704	0.1−	0.6−
1998 10 13	557	0.1+	0.0	2000 02 02	557	0.1−	0.1−	2000 04 10	704	0.2+	0.4−
1998 10 13	557	0.2+	0.0	2000 02 02	557	0.3−	0.4+	2000 04 10	704	1.5−	0.7+
1998 10 22	557	0.7+	0.6−	2000 02 02	557	0.3−	0.2−	2000 04 10	704	0.2−	0.4−

(14595)* 1998 SW₃₂ = 1986 VE₇

Discovered 1998 Sept. 23 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 32727)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams	
<i>M</i>	61.49394	(2000.0)	P	Q	
<i>n</i>	0.24031191	ω	82.63384	+0.03461181	−0.99936954
<i>a</i>	2.5622363	Ω	5.40157	+0.88059778	+0.02675433
<i>e</i>	0.2337199	<i>i</i>	4.81924	+0.47259874	+0.02333942
<i>P</i>	4.10	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1986 11 03	046	0.6−	1.7+	1998 09 26	691	0.5−	1.0+	2000 03 11	704	0.1+	0.5+
1986 11 04	046	1.5−	1.3−	1998 09 26	691	0.4−	1.0+	2000 03 11	704	0.4+	0.1+
1986 11 07	046	1.8+	1.0+	1998 09 27	704	0.2+	0.5+	2000 03 14	703	0.3+	0.3+
1986 11 07	046	(6.5+	1.3+)	1998 09 27	704	0.5−	0.4+	2000 03 14	703	0.1+	0.2+
1986 11 09	046	1.6+	1.4+	1998 09 27	704	0.7+	1.2+	2000 03 14	703	0.6−	0.7+
1986 11 09	046	2.0−	0.9−	1998 09 27	704	0.3−	0.4+	2000 03 14	703	1.1−	0.3−
1996 03 16	566	1.1−	0.8+	1998 09 27	704	0.6−	0.0	2000 04 04	704	0.2+	1.2+
1996 03 16	566	0.5+	0.1+	1998 09 30	691	0.2−	0.5+	2000 04 04	704	0.6−	0.8+
1996 03 16	566	0.8−	0.3+	1998 09 30	691	0.0	0.8+	2000 04 04	704	0.0	0.1+
1996 04 22	566	0.7+	0.4−	1998 09 30	691	0.2+	0.6+	2000 04 04	704	0.3−	0.3−
1996 04 22	566	0.5+	0.3−	1998 10 12	910	0.9+	1.3+	2000 04 04	704	0.5+	0.0
1996 04 22	566	0.5+	0.4−	1998 10 12	910	1.1+	1.1+	2000 04 05	704	0.3+	0.8+
1998 08 26	691	0.4+	0.1+	1998 10 12	910	1.2+	1.0+	2000 04 05	704	0.6+	0.4+
1998 08 26	691	0.6+	0.3+	1998 10 15	704	(2.0+	0.5+)	2000 04 05	704	0.4+	0.2+
1998 08 26	691	0.2+	0.5+	1998 10 15	704	(1.2+	2.8+)	2000 04 05	704	(2.1+	0.2−)
1998 09 14	704	0.7+	0.3−	1998 10 15	704	0.2+	0.6+	2000 04 06	704	0.2−	0.4+
1998 09 14	704	0.0	0.4−	1998 10 15	704	(3.2−	0.7+)	2000 04 06	704	0.4+	0.4+
1998 09 14	704	1.1+	1.0−	2000 02 27	703	0.2+	0.2+	2000 04 06	704	0.1+	0.5+
1998 09 14	704	0.5−	0.6−	2000 02 27	703	0.7+	0.3+	2000 04 06	704	0.0	0.5+
1998 09 14	704	0.5+	0.6−	2000 02 27	703	0.3−	0.1+	2000 04 06	704	0.3+	0.2+
1998 09 17	699	0.2−	0.2−	2000 02 27	703	0.1−	0.5+	2000 04 07	704	0.1−	0.4+
1998 09 17	699	0.7−	0.7−	2000 03 02	691	0.3+	0.7−	2000 04 07	704	0.5+	0.4+
1998 09 17	699	(2.6−	0.6−)	2000 03 02	691	0.5+	0.5−	2000 04 07	704	0.1+	0.6+
1998 09 18	704	0.6−	0.6+	2000 03 02	691	0.2+	0.7−	2000 04 07	699	0.4−	0.4+
1998 09 18	704	0.4+	0.1−	2000 03 08	704	0.6+	0.4+	2000 04 07	704	0.3+	1.2+
1998 09 18	704	0.9−	0.8−	2000 03 08	704	1.0+	0.4+	2000 04 07	699	0.0	0.2+

2000 APR. 18

M.P.C. 39875

1998 09 18	704	0.3-	0.4-	2000 03 08	704	0.1+	0.1+	2000 04 07	704	0.2+	0.8+
1998 09 18	704	0.1-	0.1+	2000 03 08	704	0.0	0.2+	2000 04 07	699	0.1-	0.0
1998 09 23	691	1.1-	1.2+	2000 03 08	704	0.5+	0.0	2000 04 07	699	0.5-	0.6+
1998 09 23	691	1.5-	1.5+	2000 03 10	704	0.3+	0.4-	2000 04 08	704	1.0-	0.8+
1998 09 23	691	1.3-	1.0+	2000 03 10	704	0.2+	0.3+	2000 04 08	704	0.7+	0.1+
1998 09 26	704	0.4+	0.8+	2000 03 10	704	0.3+	0.1-	2000 04 08	704	(0.4-	2.0+)
1998 09 26	704	1.6-	0.6+	2000 03 10	704	0.7+	0.1+	2000 04 08	704	0.3-	1.5+
1998 09 26	704	1.6-	0.7+	2000 03 10	704	0.5+	0.3+	2000 04 08	704	0.4+	0.8+
1998 09 26	704	0.9-	0.5+	2000 03 11	704	0.4+	0.1+	2000 04 10	704	1.3+	0.4+
1998 09 26	704	2.0-	0.5+	2000 03 11	704	0.2+	0.1-	2000 04 10	704	0.1-	0.3+
1998 09 26	691	0.4-	0.7+	2000 03 11	704	0.2+	0.0	2000 04 10	704	0.2+	0.8+

(14596)* 1998 SC₅₅ = 1980 XQ₂ = 1987 SB₁₃

Discovered 1998 Sept. 16 by the Lowell Observatory Near-Earth Object
Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 33029, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	94.81968		(2000.0)		P		Q
n	0.26863458	ω	252.80691		+0.41121824		-0.91132405
a	2.3788192	Ω	172.81790		+0.88471091		+0.39381901
e	0.2163721	i	9.06523		+0.21951346		+0.11997941
P	3.67	H	14.5	G	0.15	U	1

Residuals in seconds of arc

1980 12 10	095	0.6+	0.2-	1998 12 08	704	0.5+	1.3-	2000 04 06	699	0.5-	0.1-
1987 09 23	809	0.5+	0.9-	1998 12 08	704	0.4-	0.7-	2000 04 06	699	0.3-	0.0
1987 09 23	809	0.7+	0.8-	1998 12 08	704	0.3-	0.0	2000 04 06	699	0.5-	0.3+
1987 09 23	809	0.8+	0.8-	1998 12 08	704	(2.3-	0.7+)	2000 04 07	699	0.4-	0.1-
1987 09 24	809	1.1-	0.4+	1998 12 14	704	1.0-	0.2+	2000 04 07	699	0.5-	0.6+
1987 09 24	809	0.9-	0.4+	1998 12 14	704	1.0-	1.0+	2000 04 07	699	0.5-	0.2+
1987 09 24	809	0.8-	0.3+	1998 12 14	704	0.4+	1.1+	2000 04 07	704	0.5+	0.2-
1997 07 09	910	0.2-	0.5+	1998 12 14	704	0.7+	0.2-	2000 04 07	704	0.2+	1.0-
1997 07 09	910	0.3-	0.5+	1998 12 14	704	1.4-	0.8+	2000 04 07	699	0.1+	0.3+
1997 07 09	910	0.1-	0.0	1998 12 14	704	0.8-	0.4+	2000 04 07	704	0.2-	0.6+
1998 08 02	699	0.1+	0.4+	1998 12 14	704	0.3-	0.4-	2000 04 07	704	0.4+	0.6+
1998 08 02	699	1.9+	0.6+	1998 12 14	704	0.8+	0.7+	2000 04 07	704	0.4-	0.1+
1998 08 02	699	0.8+	0.3+	2000 03 01	703	0.4-	0.7-	2000 04 08	704	0.6+	0.3-
1998 09 14	704	0.0	0.3+	2000 03 01	703	0.1-	0.4+	2000 04 08	704	0.5+	0.8+
1998 09 14	704	0.4+	0.0	2000 03 01	703	0.1-	0.1-	2000 04 08	704	0.1-	0.2+
1998 09 14	704	0.1+	0.1+	2000 03 01	703	0.5-	0.1-	2000 04 08	704	0.0	0.4-
1998 09 16	699	0.0	0.6+	2000 03 08	704	0.3-	0.5+	2000 04 08	704	0.1-	0.1+
1998 09 16	699	0.6+	0.5+	2000 03 08	704	0.3-	0.2+	2000 04 08	704	0.3-	0.6-
1998 09 16	699	0.8+	0.5+	2000 03 08	704	0.6-	0.8+	2000 04 08	704	0.4+	0.5+
1998 09 18	704	0.3+	0.8-	2000 03 08	704	0.0	0.7+	2000 04 08	704	0.9-	0.3+
1998 09 18	704	0.0	0.5-	2000 03 29	704	0.1-	0.4-	2000 04 08	704	0.3-	0.1+
1998 09 18	704	0.5+	0.4-	2000 03 29	704	0.1-	0.3-	2000 04 08	704	0.2-	0.0
1998 09 18	704	0.3+	0.5-	2000 03 29	704	0.3+	0.1+	2000 04 10	704	0.6-	0.5+
1998 09 18	704	0.1+	0.1+	2000 03 29	704	0.0	0.3+	2000 04 10	704	0.5+	0.4-
1998 09 25	699	0.3-	0.5-	2000 04 02	699	0.4+	0.2+	2000 04 10	704	0.2+	0.3+
1998 09 25	699	0.2-	0.3+	2000 04 02	699	1.3+	0.3+	2000 04 10	704	0.2-	0.1+
1998 09 25	699	0.6-	0.4+	2000 04 02	699	1.4+	0.3+	2000 04 10	704	0.2-	0.5+
1998 10 17	699	0.2-	0.5+	2000 04 02	699	1.4+	0.3+	2000 04 10	704	0.2-	0.4-
1998 10 17	699	0.4-	1.0+	2000 04 04	704	0.7+	0.1-	2000 04 10	704	0.4+	0.4-
1998 10 17	699	0.9-	1.0+	2000 04 04	704	0.3+	0.0	2000 04 10	704	0.3+	0.2+
1998 11 23	699	1.0-	0.5+	2000 04 04	704	0.0	0.0	2000 04 10	704	0.4+	0.4+
1998 11 23	699	0.8-	0.3+	2000 04 04	704	0.3-	0.3+	2000 04 10	704	0.4+	0.8-
1998 11 23	699	0.1+	1.0+	2000 04 06	699	0.7-	0.6+				

(14597)* 1998 SV₅₇ = 1989 CA₂ = 1990 HL₆

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object
Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 33031)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	50.81932		(2000.0)		P		Q				
<i>n</i>	0.27775464	ω	15.83539		-0.42489500		-0.90424763				
<i>a</i>	2.3264578	Ω	99.32439		+0.82580675		-0.40638508				
<i>e</i>	0.1777981	<i>i</i>	2.46448		+0.37081997		-0.13110069				
<i>P</i>	3.55	<i>H</i>	14.9		<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc											
1989 02 06	675	(0.4-	3.1-)	1998 09 25	699	0.9+	0.0	2000 03 29	704	0.2+	0.4+
1989 02 06	675	(1.4-	3.8-)	1998 09 26	704	0.7-	1.4+	2000 03 29	704	0.6-	0.0
1989 02 11	675	1.3+	0.8-	1998 09 26	704	0.2+	1.0-	2000 03 29	704	0.2+	0.3-
1989 02 11	675	0.3-	0.4+	1998 09 26	704	0.3-	0.7+	2000 03 29	704	0.1-	0.7+
1990 04 29	413	0.6-	1.3-	1998 09 26	704	0.2-	1.3-	2000 03 29	704	0.1-	0.0
1990 05 01	413	0.5-	0.7-	1998 09 26	704	1.8-	0.7+	2000 04 03	699	0.4+	0.2+
1990 05 02	413	0.6-	0.6-	1998 09 27	704	0.8-	0.5+	2000 04 03	699	0.2+	0.3+
1996 01 17	566	0.6-	0.2+	1998 09 27	704	0.5+	0.5+	2000 04 03	699	0.0	0.4+
1996 01 17	566	0.5-	0.2+	1998 09 27	704	0.2-	0.9+	2000 04 03	699	0.2+	0.4+
1996 01 17	566	0.4-	0.2+	1998 09 27	704	0.7+	0.8+	2000 04 04	704	0.1-	0.1-
1998 09 14	704	1.7-	0.4+	1998 09 27	704	0.1+	0.3+	2000 04 04	704	0.6+	0.1+
1998 09 14	704	0.4+	1.2+	1998 10 15	704	0.8+	1.8-	2000 04 04	704	(2.4+	1.7+)
1998 09 14	704	(3.5-	1.4+)	1998 10 15	704	1.6+	0.8-	2000 04 04	704	0.7+	0.8-
1998 09 17	699	0.9+	1.5+	1998 10 15	704	1.0-	1.2-	2000 04 04	704	0.8+	0.1-
1998 09 17	699	0.6-	1.9+	1998 10 15	704	1.2-	0.8-	2000 04 08	704	0.2-	0.5+
1998 09 17	699	(1.7-	2.9+)	2000 02 08	704	0.1+	1.0-	2000 04 08	704	0.3-	0.6+
1998 09 18	704	0.1-	1.0+	2000 02 08	704	0.0	1.0+	2000 04 08	704	0.1-	0.3+
1998 09 18	704	0.0	0.5+	2000 02 08	704	0.2-	0.0	2000 04 08	704	0.1+	0.2+
1998 09 18	704	1.6-	0.9-	2000 03 09	704	0.4+	0.1-	2000 04 10	704	0.2+	0.3+
1998 09 18	704	0.1-	0.7+	2000 03 09	704	0.1-	0.1+	2000 04 10	704	0.2-	0.2-
1998 09 18	704	1.9+	0.8+	2000 03 09	704	0.4+	0.1+	2000 04 10	704	0.1+	0.5+
1998 09 25	699	0.0	0.2+	2000 03 09	704	0.2-	0.2+	2000 04 10	704	0.4+	0.7+
1998 09 25	699	0.6+	0.3+	2000 03 09	704	0.3-	0.4+	2000 04 10	704	0.5+	1.1+

(14598)* 1998 SU₆₀ = 1976 UN₁₂

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object
Search at the Anderson Mesa Station.

Id. A. Gnädig (*MPC* 34929), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	210.69409		(2000.0)		P		Q
n	0.31234077	ω	244.47153		+0.65526701		+0.75374511
a	2.1513791	Ω	66.56151		-0.67206168		+0.61188456
e	0.0670316	i	3.11988		-0.34490322		+0.23971983
P	3.16	H	15.4	G	0.15	U	2

Residuals in seconds of arc

1976 10 22	381	0.5+	0.6-	1998 09 26	704	0.3-	1.4+	2000 03 04	704	0.7+	0.1+
1976 10 22	381	0.2+	0.4-	1998 09 26	704	1.1-	1.6+	2000 03 04	704	0.8+	0.3+
1982 07 16	413	1.2-	0.5-	1998 09 26	704	0.6+	0.2-	2000 03 04	704	0.9+	0.1+
1982 07 16	413	0.6+	0.9+	1998 09 27	704	0.6-	0.6-	2000 03 04	704	1.1+	0.5+
1992 11 27	691	0.1+	1.5-	1998 09 27	704	0.1-	0.9+	2000 03 04	704	0.7+	0.4-
1992 11 27	691	0.6+	1.0-	1998 09 27	704	1.0-	1.2+	2000 03 05	704	0.6+	0.2-
1992 11 27	691	(1.0+	3.1-)	1998 09 27	704	0.7-	0.8+	2000 03 05	704	0.6+	0.5-
1998 09 14	704	1.1-	0.7-	1998 09 27	704	1.4-	0.3-	2000 03 05	704	0.2+	0.1+
1998 09 14	704	0.7-	1.4+	1998 10 17	699	0.0	0.5+	2000 03 05	704	0.7+	0.2+
1998 09 14	704	0.2-	1.0+	1998 10 17	699	0.3+	0.0	2000 03 05	704	0.3+	0.2-
1998 09 17	699	0.4+	1.1+	1998 10 17	699	1.1+	1.4-	2000 03 12	704	0.3-	1.3+
1998 09 17	699	1.1+	0.3-	2000 02 04	704	0.5-	0.8-	2000 03 12	704	0.7+	0.1+
1998 09 17	699	0.1+	0.4-	2000 02 04	704	0.7+	1.0-	2000 03 12	704	0.7+	0.4+
1998 09 18	704	0.3+	0.4+	2000 02 04	704	0.9+	1.1+	2000 03 12	704	0.6-	0.6+
1998 09 18	704	0.4+	0.3+	2000 02 04	704	(2.6+	0.8+)	2000 03 12	704	0.2-	0.9+
1998 09 18	704	0.1-	0.4+	2000 02 11	704	0.0	0.2+	2000 04 03	699	1.5-	1.0+
1998 09 18	704	0.5-	0.4+	2000 02 11	704	0.6-	0.1+	2000 04 03	699	0.8+	1.3+
1998 09 18	704	0.3-	0.3+	2000 02 11	704	0.9+	0.2+	2000 04 03	699	0.6-	0.4-
1998 09 25	699	0.1-	0.1+	2000 02 11	704	0.1-	0.1+	2000 04 03	699	0.0	1.1+
1998 09 25	699	0.2-	0.8+	2000 03 02	703	1.2-	0.3-	2000 04 03	699	1.0-	0.8+
1998 09 25	699	0.0	0.2+	2000 03 02	703	0.2+	0.2-	2000 04 03	699	0.8+	0.6+

1998 09 26 704 0.2+ 1.4+ 2000 03 02 703 0.3- 0.5+ 2000 04 03 699 1.9- 0.7+
 1998 09 26 704 0.5- 0.7- 2000 03 02 703 1.0- 0.5+ 2000 04 03 699 0.9+ 1.1+

(14599)* 1998 SV₆₄ = 1978 WO₁₇

Discovered 1998 Sept. 20 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33036)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	32.79755	(2000.0)	P	Q	
<i>n</i>	0.29257004	ω	73.55916	-0.86530268	-0.49389700
<i>a</i>	2.2472401	Ω	76.77355	+0.41981688	-0.80733556
<i>e</i>	0.1170253	<i>i</i>	5.04111	+0.27387050	-0.32291648
<i>P</i>	3.37	<i>H</i>	14.7	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1978 11 30	675	0.1-	0.4-	1998 10 11	699	0.0	0.2+	2000 02 11	704	0.7+	0.5+
1978 12 01	675	0.1+	0.3+	1998 10 28	704	(0.4-	2.1+)	2000 02 11	704	0.3-	0.3-
1995 11 30	327	0.7+	0.4+	1998 10 28	704	(2.9-	1.6+)	2000 02 11	704	0.5+	0.6-
1995 11 30	327	0.5-	0.3+	1998 10 28	704	0.2-	1.0+	2000 04 01	367	0.3-	0.4+
1998 09 18	699	1.1+	0.9+	1998 10 28	704	1.0-	0.0	2000 04 01	367	0.1-	0.1+
1998 09 18	699	0.1+	0.1+	1998 10 29	704	0.5+	0.3-	2000 04 01	367	0.4-	0.1+
1998 09 18	699	0.2-	1.9+	1998 10 29	704	0.2+	0.3-	2000 04 07	704	0.1-	0.7+
1998 09 20	809	(1.0+	2.7+)	1998 10 29	704	1.5-	1.6-	2000 04 07	704	0.1-	0.1+
1998 09 20	809	0.3-	1.0+	1998 10 29	704	0.6-	0.3-	2000 04 07	704	0.3+	0.9+
1998 09 20	809	(0.8-	2.7+)	1998 10 29	704	0.0	1.3-	2000 04 07	704	0.1+	0.1+
1998 09 21	809	1.0+	1.1+	1998 11 11	704	0.2-	0.2+	2000 04 07	704	0.1+	0.8+
1998 09 21	809	0.5-	0.0	1998 11 11	704	0.9-	0.8-	2000 04 08	704	0.4-	0.8-
1998 09 21	809	0.4-	0.7+	1998 11 11	704	0.2+	1.5+	2000 04 08	704	0.6+	0.6+
1998 10 11	699	0.9+	0.0	1998 11 11	704	0.9-	0.1-	2000 04 08	704	1.1+	0.8+
1998 10 11	699	1.1+	0.2-	1998 11 11	704	(2.3-	1.5+)				

(14600)* 1998 SG₇₃ = 4862 P-L = 1987 DN₃

Discovered 1998 Sept. 21 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33283)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	61.70235	(2000.0)	P	Q	
<i>n</i>	0.23408354	ω	300.59598	-0.19574816	-0.98030569
<i>a</i>	2.6074868	Ω	160.64053	+0.92457635	-0.19337427
<i>e</i>	0.2153243	<i>i</i>	4.52310	+0.32686576	-0.04008913
<i>P</i>	4.21	<i>H</i>	15.1	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1960 09 24	675	0.0	0.8+	1998 10 20	699	0.9+	1.2-	2000 03 29	704	0.5+	0.1-
1960 09 24	675	0.4+	0.0	1998 10 28	704	(0.4-	2.5+)	2000 03 29	704	0.2-	1.0-
1960 09 26	675	0.4+	0.4-	1998 10 28	704	1.4-	0.4-	2000 04 02	699	0.2+	0.5+
1960 09 27	675	1.0-	0.8-	1998 10 28	704	1.1+	0.8+	2000 04 02	699	1.0+	0.6+
1960 09 27	675	0.2-	0.4+	1998 10 28	704	(0.3-	2.1+)	2000 04 02	699	0.5+	0.7+
1960 09 28	675	0.3-	0.8+	1998 10 29	704	0.0	0.9-	2000 04 02	699	0.6+	0.7+
1960 09 28	675	0.1+	0.1+	1998 10 29	704	0.1+	1.6+	2000 04 03	699	0.4+	0.4+
1987 02 23	010	1.5-	0.6-	1998 10 29	704	0.8-	0.2+	2000 04 03	699	0.2+	0.5+
1987 02 23	010	0.6+	0.9-	1998 10 29	704	0.9+	1.4-	2000 04 03	699	0.4+	0.5+
1987 02 23	010	1.4+	0.3+	1998 10 29	704	0.7-	1.4+	2000 04 03	699	0.8-	0.3-
1994 11 29	691	0.0	0.2+	1998 11 10	704	0.3-	1.0+	2000 04 04	704	0.8+	0.7+
1994 11 29	691	0.5-	0.2-	1998 11 10	704	1.2-	0.2-	2000 04 04	704	0.1+	0.3+
1994 11 29	691	0.2-	0.2+	1998 11 10	704	0.7-	1.1+	2000 04 04	704	0.4+	0.1+
1998 09 21	809	(0.2-	2.7+)	1998 11 10	704	(2.1-	1.0+)	2000 04 04	704	0.3+	0.6+
1998 09 21	809	0.8-	1.0+	1998 11 11	704	0.1-	0.7-	2000 04 04	704	0.1-	0.9+
1998 09 21	809	1.4-	1.1+	1998 11 11	704	0.6-	0.2+	2000 04 08	704	1.2-	1.3+
1998 09 23	809	(0.2+	2.8+)	1998 11 11	704	(2.7-	0.6+)	2000 04 08	704	0.1-	0.1+
1998 09 23	809	0.9-	1.8+	2000 03 04	703	0.2+	0.7+	2000 04 08	704	0.5+	0.4+
1998 09 23	809	0.8-	1.3+	2000 03 04	703	0.1+	0.5+	2000 04 08	704	0.7+	0.4+
1998 10 11	699	1.3+	0.6+	2000 03 04	703	(2.0-	0.7+)	2000 04 10	704	0.8-	0.1-
1998 10 11	699	0.1+	0.6+	2000 03 04	703	0.2-	0.8-	2000 04 10	704	0.1-	0.6+
1998 10 11	699	1.2+	1.0+	2000 03 29	704	0.0	1.7+	2000 04 10	704	0.6+	0.7+

1998 10 20 699 0.4+ 1.0+ 2000 03 29 704 0.5+ 0.4+ 2000 04 10 704 0.7- 0.2-
 1998 10 20 699 1.0+ 0.2- 2000 03 29 704 0.5- 0.4+ 2000 04 10 704 0.2+ 0.4+

(14601)* 1998 SU₇₃

Discovered 1998 Sept. 21 by E. W. Elst at the European Southern Observatory.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	184.87772	(2000.0)	P	Q	
<i>n</i>	0.27838758	ω	266.03715	+0.74892052	+0.66001541
<i>a</i>	2.3229301	Ω	52.65019	-0.57463050	+0.69128934
<i>e</i>	0.1890033	<i>i</i>	4.26657	-0.33002705	+0.29410663
<i>P</i>	3.54	<i>H</i>	14.5	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1980 07 12	413	0.2-	0.5+	1998 10 02	704	0.1-	0.2+	2000 02 03	704	0.1-	0.6+
1980 07 12	413	0.7-	0.7+	1998 10 02	704	0.3-	0.7+	2000 02 03	704	1.1+	1.0+
1983 05 07	413	0.8-	0.1+	1998 10 02	704	0.3+	0.3-	2000 02 28	704	1.4-	0.5+
1983 05 07	413	1.5+	0.1-	1998 10 02	704	0.7+	0.1+	2000 02 28	704	0.6-	0.6-
1983 05 08	413	0.4-	0.7-	1998 10 02	704	0.1-	1.6-	2000 02 28	704	0.1+	0.0
1983 05 08	413	0.4+	0.1-	1998 10 11	699	0.3-	0.1+	2000 02 28	704	0.7+	0.1-
1995 10 24	675	0.1-	0.9-	1998 10 11	699	0.2-	0.2+	2000 02 28	704	0.0	0.4+
1997 04 04	566	0.2-	1.4-	1998 10 11	699	0.5-	0.1+	2000 02 29	704	1.0-	0.4-
1997 04 04	566	0.2+	1.1-	1998 10 28	704	0.1+	0.4-	2000 02 29	704	0.3-	0.1+
1997 04 04	566	0.8-	1.0-	1998 10 28	704	0.2-	0.5-	2000 02 29	704	0.4-	0.3+
1997 05 08	675	1.7-	0.1+	1998 10 28	704	1.5-	0.6-	2000 02 29	704	0.3-	0.1-
1997 05 08	675	1.1-	0.2-	1998 10 28	704	0.7-	0.2-	2000 03 04	704	0.2+	0.7+
1998 09 18	699	0.2-	0.8+	1998 10 28	704	0.4-	1.1-	2000 03 04	704	0.3+	0.1+
1998 09 18	699	0.3+	0.1-	1998 10 29	704	(2.4+	1.1-)	2000 03 04	704	0.1+	0.5-
1998 09 18	699	0.2-	0.3+	1998 10 29	704	1.8+	0.6-	2000 03 04	704	0.2-	0.0
1998 09 21	809	(0.8+	2.1+)	1998 10 29	704	1.4+	1.5-	2000 03 04	704	0.2+	0.0
1998 09 21	809	0.1+	1.8+	1998 10 29	704	1.4+	1.2-	2000 03 04	704	0.7-	0.3-
1998 09 21	809	0.1-	1.9+	1998 10 29	704	1.9+	1.7-	2000 03 04	704	0.4-	0.1-
1998 09 23	809	(1.7+	2.4+)	1998 11 10	704	0.0	0.6-	2000 03 04	704	0.2+	0.2-
1998 09 23	809	0.7+	1.4+	1998 11 10	704	0.4-	0.8-	2000 03 04	704	0.2+	0.0
1998 09 23	809	0.2+	1.8+	1998 11 10	704	0.1+	0.2+	2000 03 04	704	0.3+	0.0
1998 09 26	704	0.2-	0.4-	1998 11 10	704	0.4-	0.4+	2000 03 05	704	0.6+	0.2-
1998 09 26	704	0.2-	0.7-	1998 11 10	704	0.1-	0.2+	2000 03 05	704	0.3-	0.1-
1998 09 26	704	0.1+	1.3-	1998 11 10	699	0.4+	0.3+	2000 03 05	704	0.3-	0.5+
1998 09 26	704	0.0	1.4-	1998 11 10	699	1.0+	0.6+	2000 03 05	704	0.2+	0.2-
1998 09 26	704	0.3+	0.5-	1998 11 10	699	(2.2+	0.8-)	2000 03 05	704	0.6-	0.9-
1998 09 27	704	0.2-	0.4-	1998 11 11	704	1.0-	0.4-	2000 03 06	704	1.0+	0.1+
1998 09 27	704	0.2-	0.0	1998 11 11	704	0.1+	1.1+	2000 03 06	704	0.3-	0.0
1998 09 27	704	0.3-	0.6+	1998 11 11	704	0.1-	0.9+	2000 03 06	704	0.2+	0.4-
1998 09 27	704	0.1+	1.1-	1998 11 11	704	0.4-	1.7+	2000 03 06	704	0.8+	0.5+
1998 09 27	704	0.2-	0.0	1998 11 11	704	0.1-	1.0+	2000 03 06	704	0.7+	0.7-
1998 09 29	704	0.3-	0.4-	1998 11 23	699	0.5+	0.3-	2000 03 08	704	0.2-	0.5-
1998 09 29	704	0.2-	0.4+	1998 11 23	699	0.5-	0.0	2000 03 08	704	0.6-	0.5+
1998 09 29	704	0.2-	0.3+	1998 11 23	699	0.3-	0.4+	2000 03 08	704	0.4+	0.8-
1998 09 29	704	0.9+	0.3-	1999 01 07	691	1.0-	0.5-	2000 03 09	704	0.4+	1.3+
1998 09 29	704	0.1+	0.7+	1999 01 07	691	0.9-	0.6-	2000 03 09	704	0.1+	0.7+
1998 10 02	704	0.7+	0.9+	1999 01 07	691	1.1-	0.4-	2000 03 09	704	0.1+	0.5-
1998 10 02	704	0.2-	0.8+	2000 02 03	704	1.2+	0.6+	2000 03 09	704	0.8-	0.7+
1998 10 02	704	0.3-	1.3-	2000 02 03	704	0.7+	0.8+	2000 03 09	704	0.1+	0.2+
1998 10 02	704	0.3+	1.3-	2000 02 03	704	0.2+	0.3+				

(14602)* 1998 SW₇₄ = 4826 T-1

2000 APR. 18

M.P.C. 39877

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	83.96237		(2000.0)	P	Q
<i>n</i>	0.27208206	ω	34.94194	+0.07599696	-0.99213923
<i>a</i>	2.3586823	Ω	50.90995	+0.88316656	+0.02069245
<i>e</i>	0.1061158	<i>i</i>	7.35935	+0.46286206	+0.12341622
<i>P</i>	3.62	<i>H</i>	14.2	<i>G</i>	0.15

Residuals in seconds of arc

1971 05 13	675	0.0	2.1+	1998 10 29	704	0.0	0.3+	2000 01 08	704	0.9+	1.9-
1971 05 14	675	0.6-	0.2-	1998 10 29	704	0.9-	0.3+	2000 01 10	704	0.0	0.7-
1971 05 16	675	0.0	2.2-	1998 10 29	704	0.7-	0.1+	2000 01 10	704	0.1-	0.6-
1993 04 25	691	0.3-	0.7-	1998 10 29	704	0.9-	0.9+	2000 01 10	704	0.2+	0.2+
1993 04 25	691	0.7+	0.8+	1998 10 29	704	0.2-	0.9+	2000 01 10	704	0.4-	0.1-
1993 04 25	691	1.2+	0.0	1998 11 10	704	0.0	0.1-	2000 01 10	704	0.1-	0.7+
1998 09 21	809	1.1+	0.1-	1998 11 10	704	0.2-	0.5+	2000 03 29	704	(0.3-	2.1+)
1998 09 21	809	0.3+	0.1-	1998 11 10	704	0.3+	0.5-	2000 03 29	704	1.6-	0.2+
1998 09 21	809	0.2+	0.2+	1998 11 10	704	0.1+	0.0	2000 03 29	704	0.0	0.3-
1998 09 23	809	1.2+	1.5-	1998 11 10	704	1.2-	0.2-	2000 03 29	704	0.4-	0.2-
1998 09 23	809	0.3+	1.3-	1998 11 11	704	0.2+	0.4+	2000 03 29	704	0.3-	0.8-
1998 09 23	809	0.3-	1.0-	1998 11 11	704	0.1+	0.2-	2000 04 02	699	0.3-	0.3+
1998 09 26	704	0.4+	0.0	1998 11 11	704	0.2-	0.2+	2000 04 02	699	0.4-	0.5+
1998 09 26	704	0.0	0.4-	1998 11 11	704	1.0-	1.1-	2000 04 02	699	0.5-	0.2+
1998 09 26	704	0.2+	0.5-	1998 11 11	704	0.0	0.2-	2000 04 02	699	0.2-	0.2+
1998 09 26	704	0.4+	0.5-	1998 11 14	699	0.8+	1.3+	2000 04 04	704	0.3-	1.2+
1998 09 26	704	0.8-	0.8-	1998 11 14	699	0.8+	0.2+	2000 04 04	704	0.2+	1.1-
1998 09 27	704	0.2-	0.4-	1998 11 14	699	0.4+	0.1-	2000 04 04	704	0.2+	0.7-
1998 09 27	704	0.5+	0.7-	1999 01 08	704	(1.4+	2.2-)	2000 04 04	704	0.1+	0.5+
1998 09 27	704	0.5-	0.4-	1999 01 08	704	1.2+	0.5+	2000 04 06	608	0.4+	0.0
1998 09 27	704	0.7-	0.2-	1999 01 08	704	1.2-	0.4-	2000 04 06	608	0.2+	0.3+
1998 09 27	704	0.8-	0.8-	1999 01 08	704	1.8-	0.6-	2000 04 06	608	0.9+	0.1-
1998 10 11	699	0.4+	0.5+	1999 01 11	704	0.4+	1.0+	2000 04 08	704	0.1+	0.1+
1998 10 11	699	0.3+	0.6+	1999 01 11	704	0.9+	0.0	2000 04 08	704	0.2+	0.8+
1998 10 11	699	0.5+	0.3+	1999 01 11	704	0.4+	0.1-	2000 04 08	704	0.0	0.6+
1998 10 20	699	0.7+	0.1+	1999 01 11	704	0.4-	0.2+	2000 04 08	704	0.5+	0.9+
1998 10 20	699	0.2+	0.4+	1999 01 18	691	0.8-	0.2+	2000 04 08	704	0.2+	0.8+
1998 10 20	699	0.1+	0.8+	1999 01 18	691	(2.1-	0.7+)	2000 04 10	704	0.2+	0.4+
1998 10 28	704	0.4-	0.7+	2000 01 08	704	0.5+	1.9-	2000 04 10	704	0.1-	0.5+
1998 10 28	704	0.0	0.8+	2000 01 08	704	0.8-	1.5-	2000 04 10	704	1.0-	0.0
1998 10 28	704	0.5+	0.4+	2000 01 08	704	1.5+	1.6-	2000 04 10	704	0.2+	0.3+
1998 10 28	704	0.5-	0.8+	2000 01 08	704	(0.8+	2.2-)	2000 04 10	704	0.3-	0.3+

(14603)* 1998 SK₁₁₅

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	27.07046		(2000.0)	P	Q
<i>n</i>	0.22739266	ω	107.47817	-0.50105608	-0.86401108
<i>a</i>	2.6583883	Ω	12.93892	+0.68680838	-0.43164131
<i>e</i>	0.1329033	<i>i</i>	12.71181	+0.52653305	-0.25917298
<i>P</i>	4.33	<i>H</i>	13.4	<i>G</i>	0.15

Residuals in seconds of arc

1980 06 23	413	0.6-	0.0	1998 10 20	327	0.2+	0.4+	2000 02 03	704	0.7-	0.7+
1980 06 23	413	0.4-	1.1+	1998 10 20	327	0.2+	0.3+	2000 02 03	704	0.6-	0.8+
1987 04 27	675	0.3+	1.1-	1998 10 20	327	0.2+	0.2+	2000 02 03	704	0.8-	0.6+
1987 04 27	675	1.1-	0.5-	1998 10 20	120	0.1+	0.0	2000 02 26	628	0.8+	0.2+
1989 09 05	413	0.5-	0.3+	1998 10 20	120	0.6+	0.4-	2000 02 26	628	1.0+	0.5+
1989 09 05	413	0.0	0.2+	1998 10 27	120	1.6+	0.2-	2000 02 26	127	0.5+	0.1+
1989 10 28	413	0.3+	0.6+	1998 10 27	120	0.2+	0.7-	2000 02 26	127	0.4+	0.1+
1989 10 28	413	0.4+	0.6-	1998 10 28	704	0.2+	0.7-	2000 02 26	628	0.2-	0.7+
1992 04 09	413	0.7+	0.2+	1998 10 28	704	0.5-	0.1-	2000 02 26	628	0.1+	0.4+
1992 04 09	413	0.6+	0.5+	1998 10 28	704	0.0	1.6-	2000 02 26	628	0.4+	0.2+
1996 03 21	566	0.6-	0.0	1998 10 28	704	0.4+	0.2-	2000 02 26	628	1.0+	0.4+
1996 03 21	566	0.8-	0.2+	1998 10 28	704	0.7+	0.1+	2000 02 28	850	0.5+	0.3-
1996 03 21	566	0.6-	0.1+	1998 10 29	704	0.9+	1.1-	2000 02 28	850	0.1+	0.4-
1998 09 14	327	0.1+	0.4+	1998 10 29	704	0.0	0.1-	2000 02 28	850	0.1+	0.7-

1998 09 14	327	0.4-	0.1-	1998 10 29	704	0.4+	0.9+	2000 02 28	850	0.4+	0.7-
1998 09 14	327	0.1-	0.4+	1998 10 29	704	0.7+	1.1+	2000 03 04	704	0.2-	0.1+
1998 09 15	699	0.5-	0.2-	1998 10 29	704	1.0+	1.0+	2000 03 04	704	0.0	0.1+
1998 09 15	699	0.3+	0.1+	1998 11 10	699	0.2-	0.2-	2000 03 04	704	0.0	0.3+
1998 09 15	699	0.1+	0.1+	1998 11 10	699	0.6-	0.4+	2000 03 04	704	0.4-	0.1+
1998 09 26	704	0.5-	0.0	1998 11 10	699	0.1-	0.8-	2000 03 04	704	0.3+	0.5+
1998 09 26	704	0.6-	1.3-	1998 11 15	327	0.3+	0.2-	2000 03 11	699	0.0	0.1-
1998 09 26	704	0.7-	0.5+	1998 11 15	327	0.2-	0.1+	2000 03 11	699	0.0	0.1-
1998 09 26	704	0.3-	1.0+	1998 11 15	327	0.4-	0.1-	2000 03 11	699	0.0	0.1-
1998 09 26	704	0.6-	0.3-	1999 01 11	704	0.9-	1.0+	2000 03 11	699	0.1-	0.3+
1998 09 27	704	0.0	0.3+	1999 01 11	704	0.1-	1.0+	2000 03 12	704	0.1+	0.4-
1998 09 27	704	0.8-	0.3+	1999 01 11	704	(1.0-	2.4+)	2000 03 12	704	0.1+	0.3-
1998 09 27	704	0.5-	0.1+	1999 01 11	704	0.8+	0.6+	2000 03 12	704	0.2-	0.5-
1998 09 27	704	0.3-	0.6-	1999 12 17	699	1.0-	0.7-	2000 03 12	704	0.3-	0.7-
1998 09 27	704	1.5-	1.2-	1999 12 17	699	0.0	0.8-	2000 03 12	704	0.1+	0.6-
1998 10 15	327	0.0	0.1+	1999 12 17	699	0.4-	1.9+	2000 04 04	704	0.1-	0.1+
1998 10 15	327	0.1+	0.2+	2000 02 03	704	0.2-	0.4+	2000 04 04	704	1.0+	0.0
1998 10 15	327	0.2+	0.4+	2000 02 03	704	0.1-	0.4+	2000 04 04	704	0.5+	0.0

(14604)* 1998 SM₁₁₅ = 1976 UF₁₉ = 1982 YR₄

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Gnädig (*MPC* 33285)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	40.06348		(2000.0)	P	Q
<i>n</i>	0.17717586	ω	110.77409	+0.05999413	-0.99819477
<i>a</i>	3.1395424	Ω	335.78592	+0.91326102	+0.05602593
<i>e</i>	0.1871110	<i>i</i>	0.39277	+0.40293301	+0.02164013
<i>P</i>	5.56	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1976 10 24	381	0.6-	0.1+	1999 12 07	704	0.2+	0.2+	2000 02 03	106	0.6+	0.6+
1976 10 24	381	0.8-	0.5-	1999 12 09	691	0.5+	0.2+	2000 02 03	106	0.3+	0.1+
1982 12 23	095	1.5+	0.1-	1999 12 09	691	0.6+	0.1+	2000 02 04	106	0.5+	0.0
1998 09 15	699	0.4+	0.5-	1999 12 09	691	0.6+	0.2+	2000 02 06	691	1.1-	0.6+
1998 09 15	699	1.0-	0.6+	1999 12 30	120	1.0+	1.6-	2000 02 06	691	1.2-	0.3+
1998 09 15	699	0.4+	0.1-	1999 12 30	120	0.4+	1.0-	2000 02 06	691	1.1-	0.4+
1998 09 26	704	0.0	0.5-	1999 12 30	120	1.0+	0.9-	2000 02 08	691	0.5-	0.1-
1998 09 26	704	0.8+	1.0-	1999 12 30	120	1.2+	1.1-	2000 02 08	691	0.6-	0.1-
1998 09 26	704	0.4+	0.3+	1999 12 30	120	0.4+	0.2-	2000 02 08	691	0.7-	0.1-
1998 09 26	704	0.7+	0.7-	1999 12 31	120	1.1-	1.5-	2000 02 11	704	0.3+	0.7+
1998 09 26	704	0.2+	0.4+	2000 01 01	120	0.6-	0.6-	2000 02 11	704	0.0	0.4+
1998 09 27	704	0.1+	0.3-	2000 01 03	120	0.3-	0.3-	2000 02 11	704	0.2+	0.6+
1998 09 27	704	0.3-	0.0	2000 01 03	120	1.0-	1.0-	2000 02 11	704	0.3+	0.5+
1998 09 27	704	0.2+	1.2+	2000 01 04	704	0.1+	0.4-	2000 02 11	704	0.6+	1.0+
1998 09 27	704	0.6-	0.0	2000 01 04	704	0.1-	0.1-	2000 02 26	703	0.3-	0.0
1998 09 27	704	0.3-	0.7-	2000 01 04	704	0.2-	0.7-	2000 02 26	703	0.4+	0.3+
1998 10 15	327	0.2-	0.4+	2000 01 04	704	0.4-	1.0-	2000 02 26	703	0.9-	0.3+
1998 10 15	327	0.7+	0.7+	2000 01 04	704	0.9-	0.8-	2000 02 26	703	0.3-	0.2+
1998 10 15	327	0.2+	0.7+	2000 01 06	120	0.0	0.3-	2000 02 29	704	0.2+	0.2+
1998 10 16	120	0.8+	0.6-	2000 01 06	120	0.4+	0.5-	2000 02 29	704	0.4+	0.3+
1998 10 16	120	0.5+	0.0	2000 01 07	704	0.1+	0.5-	2000 02 29	704	0.1-	0.1-
1998 10 24	120	0.7-	0.4-	2000 01 07	704	0.5-	0.5-	2000 02 29	704	0.0	0.3+
1998 10 24	120	1.0+	0.2-	2000 01 07	704	0.4-	0.5-	2000 02 29	704	0.0	0.4+
1998 10 26	120	(2.2-	0.7-)	2000 01 07	704	0.2-	0.4-	2000 03 01	691	0.3-	0.3-
1998 10 26	120	(2.8-	0.7-)	2000 01 07	704	0.6-	0.5-	2000 03 01	691	0.2-	0.3-
1998 10 26	120	(2.5-	1.6-)	2000 01 13	699	0.4+	0.5+	2000 03 01	691	0.2-	0.3-
1998 10 26	120	1.7-	0.0	2000 01 13	699	0.1+	0.1-	2000 03 05	704	0.8+	0.2-
1998 10 28	704	0.2+	0.3+	2000 01 13	699	0.6+	0.4+	2000 03 05	704	0.6+	0.7+
1998 10 28	704	0.3+	1.4-	2000 01 26	120	1.5-	0.6-	2000 03 05	704	0.0	0.4-
1998 10 28	704	0.9-	0.1-	2000 01 26	120	0.4-	0.1-	2000 03 05	704	0.2+	0.9+
1998 10 28	704	0.7-	0.2-	2000 01 26	120	1.2+	0.0	2000 03 05	704	0.2-	1.1+
1998 10 28	704	1.3-	0.5+	2000 01 28	652	0.6+	0.7+	2000 03 09	704	1.0+	1.3+
1998 10 29	704	0.3-	0.3+	2000 01 28	652	0.2+	0.9+	2000 03 09	704	0.5+	0.3+
1998 10 29	704	1.1+	0.8+	2000 01 28	691	0.2+	0.2+	2000 03 09	704	0.7+	0.3+
1998 10 29	704	0.1+	1.5+	2000 01 28	691	0.3+	0.3+	2000 03 09	704	0.2+	0.5+

1998 10 29	704	(0.3– 2.1+)	2000 01 28	691	0.2+ 0.2+	2000 03 09	704	0.1+ 0.5+
1998 10 29	704	0.2+ 0.5+	2000 01 30	704	0.1– 0.1–	2000 03 09	608	0.0 0.7–
1999 11 16	704	0.3+ 0.8+	2000 01 30	691	0.2– 0.1+	2000 03 09	608	0.0 0.7–
1999 11 16	704	0.1+ 0.7+	2000 01 30	704	0.4– 0.3+	2000 03 09	608	0.1+ 0.0
1999 11 16	704	0.0 1.4+	2000 01 30	703	0.0 0.0	2000 03 11	691	0.1– 0.7–
1999 12 04	703	1.3– 0.7–	2000 01 30	691	0.4– 0.1+	2000 03 11	691	0.0 0.4–
1999 12 04	703	0.6– 0.2–	2000 01 30	704	0.1– 0.1–	2000 03 11	691	0.2– 0.4–
1999 12 04	703	0.0 1.1+	2000 01 30	703	0.0 0.3+	2000 03 11	704	0.8+ 0.2–
1999 12 04	703	1.0– 0.5+	2000 01 30	703	0.4– 0.1+	2000 03 11	704	0.1+ 0.3+
1999 12 06	704	0.1– 0.1+	2000 01 30	704	0.2+ 1.5–	2000 03 11	704	0.1+ 0.7–
1999 12 06	704	0.4– 0.7–	2000 01 30	703	0.4+ 0.1+	2000 03 11	704	0.3+ 0.3+
1999 12 06	704	0.0 0.7+	2000 01 30	691	0.4– 0.1+	2000 03 11	704	1.1– 0.2–
1999 12 06	704	0.2– 0.1–	2000 02 03	704	0.1+ 0.2+	2000 04 10	704	0.7– 0.8–
1999 12 06	704	0.6+ 0.8+	2000 02 03	704	0.3+ 0.6+	2000 04 10	704	0.1+ 0.3–
1999 12 07	704	0.1+ 0.0	2000 02 03	704	0.2+ 0.2+	2000 04 10	704	1.9+ 0.7+
1999 12 07	704	0.0 0.1+	2000 02 03	704	0.5– 0.3+			
1999 12 07	704	0.7– 0.3–	2000 02 03	704	0.5– 0.2+			

(14605)* 1998 SD₁₂₃ = 1981 UF₂₉ = 1991 PS₁₇

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33042)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	122.17744		(2000.0)	P	Q
<i>n</i>	0.28929124	ω	36.26669	+0.64940707	–0.76021589
<i>a</i>	2.2641882	Ω	13.26967	+0.67735312	+0.56722221
<i>e</i>	0.1209815	<i>i</i>	4.62299	+0.34563451	+0.31675032
<i>P</i>	3.41	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1981 10 24	675	0.1– 0.9+	1998 10 29	704	(1.5– 3.0+)	2000 03 11	704	0.6– 0.8–
1981 10 25	675	0.4+ 0.4+	1998 10 29	704	0.7– 0.5+	2000 03 27	699	0.0 0.2+
1981 10 26	675	1.0– 0.2+	1998 10 29	704	0.4– 0.1–	2000 03 27	699	0.0 0.0
1991 08 07	675	1.5+ 0.6+	1998 11 10	699	0.7– 0.5+	2000 03 27	699	0.3– 0.6+
1991 08 07	675	0.9– 0.5–	1998 11 10	699	0.7+ 0.3+	2000 03 27	699	0.0 0.3+
1991 09 11	675	0.1+ 0.6–	1998 11 10	699	0.7+ 0.2–	2000 04 01	691	0.4+ 1.4–
1991 09 11	675	0.7– 0.7+	1998 12 09	699	0.1+ 0.4–	2000 04 01	691	0.6+ 1.2–
1998 09 18	699	0.7– 0.0	1998 12 09	699	0.4+ 0.2–	2000 04 01	691	0.7+ 0.3–
1998 09 18	699	0.3– 0.1+	1998 12 09	699	0.8+ 0.1–	2000 04 02	699	0.5+ 0.0
1998 09 18	699	0.3– 0.0	2000 03 04	703	0.3+ 0.1+	2000 04 02	699	0.2+ 0.0
1998 09 26	704	0.8+ 0.4+	2000 03 04	703	0.4– 1.0+	2000 04 02	699	0.5+ 0.3+
1998 09 26	704	0.6+ 0.0	2000 03 04	703	0.1– 0.3+	2000 04 02	699	0.6+ 0.2–
1998 09 26	704	0.0 0.3–	2000 03 04	703	0.0 0.1+	2000 04 05	704	0.4+ 0.6+
1998 09 26	704	0.3– 1.1+	2000 03 09	704	0.7+ 0.0	2000 04 05	704	0.4+ 0.6+
1998 09 26	704	0.2– 1.9+	2000 03 09	704	0.1– 1.2+	2000 04 05	704	0.6+ 0.7+
1998 09 27	704	0.0 0.5–	2000 03 09	704	0.2+ 0.5+	2000 04 05	704	0.7+ 1.0+
1998 09 27	704	0.1+ 0.5+	2000 03 09	704	0.6+ 0.9+	2000 04 05	704	0.6+ 0.7+
1998 09 27	704	0.6– 1.6+	2000 03 09	704	0.8+ 0.6+	2000 04 06	704	0.5+ 0.3+
1998 09 27	704	0.3– 0.4–	2000 03 10	704	0.9– 1.1–	2000 04 06	699	0.2– 0.5+
1998 09 27	704	1.3– 0.9+	2000 03 10	704	1.4– 0.0	2000 04 06	704	0.4+ 0.3+
1998 10 28	704	0.0 1.9–	2000 03 10	704	1.2– 0.1+	2000 04 06	699	0.1+ 0.4+
1998 10 28	704	1.0– 0.5–	2000 03 10	704	1.5– 0.7–	2000 04 06	704	0.4+ 0.6+
1998 10 28	704	0.2+ 0.1–	2000 03 10	704	1.4– 0.8–	2000 04 06	699	0.0 0.0
1998 10 28	704	0.3+ 0.1+	2000 03 11	704	0.4+ 0.2–	2000 04 06	704	0.5+ 0.3+
1998 10 29	704	0.3– 0.4–	2000 03 11	704	0.3– 0.2–	2000 04 06	704	0.6+ 0.7+
1998 10 29	704	0.7+ 0.7+	2000 03 11	704	0.3– 0.4–	2000 04 06	699	0.1– 0.4+

(14606)* 1998 SK₁₂₅ = 1979 OU₉

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33288)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	167.10134		(2000.0)	P	Q
<i>n</i>	0.26520818	ω	179.51566	+0.90379703	+0.42541078
<i>a</i>	2.3992644	Ω	155.14315	–0.39301913	+0.86820113
<i>e</i>	0.1259339	<i>i</i>	6.37226	–0.16937205	+0.25544561
<i>P</i>	3.72	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1979 07 24	413	0.4– 0.8–	1998 10 29	704	0.1– 0.1+	2000 02 12	704	0.2+ 0.4–
1979 07 26	675	1.5+ 0.2+	1998 10 29	704	1.1– 0.0	2000 02 12	704	0.3+ 0.4–
1979 07 26	675	0.6– 1.6+	1998 10 29	704	1.1– 0.0	2000 02 12	704	0.8– 0.6+
1979 07 27	675	0.3– 0.3–	1998 10 29	704	0.3+ 1.0–	2000 02 29	704	0.2– 0.0
1979 07 28	413	0.2– 0.2–	1998 10 29	704	0.3– 0.8–	2000 02 29	704	0.0 0.3–
1997 04 10	809	(0.1+ 2.3+)	2000 01 05	704	(1.5– 2.4+)	2000 02 29	704	0.3– 0.5+
1997 04 10	809	0.2– 1.5+	2000 01 05	704	1.1– 0.2+	2000 02 29	704	0.0 0.3+
1997 04 10	809	0.5+ 0.3+	2000 01 05	704	0.5– 0.3–	2000 02 29	704	0.1– 0.2–
1998 09 26	704	0.1+ 0.8+	2000 01 05	704	0.1+ 0.4–	2000 03 03	704	0.6– 0.3+
1998 09 26	704	0.7+ 0.9+	2000 02 02	691	0.6– 0.4–	2000 03 03	704	0.2– 0.6+
1998 09 26	704	0.7+ 0.1+	2000 02 02	691	0.6– 0.4–	2000 03 03	704	0.1+ 0.1+
1998 09 26	704	0.8+ 0.5+	2000 02 02	691	0.5– 0.5–	2000 03 03	704	0.1+ 0.9+
1998 09 26	704	0.0 0.7+	2000 02 02	704	0.2+ 0.6+	2000 03 03	704	0.0 0.8+
1998 09 27	704	0.3+ 1.1+	2000 02 02	704	0.0 0.4+	2000 03 05	704	0.4+ 0.8–
1998 09 27	704	0.3+ 1.6+	2000 02 02	704	0.1– 0.6+	2000 03 05	704	0.4+ 1.5+
1998 09 27	704	0.1+ 1.0+	2000 02 02	704	0.5+ 1.1+	2000 03 05	704	0.3+ 0.7–
1998 09 27	704	0.2– 0.9+	2000 02 02	704	0.6– 0.8+	2000 03 05	704	1.3– 0.7+
1998 09 27	704	0.0 0.4+	2000 02 04	704	0.5+ 1.0–	2000 03 05	704	0.2+ 0.5–
1998 10 28	704	0.2– 0.3–	2000 02 04	704	0.8+ 0.7–	2000 03 05	704	0.2– 1.9+
1998 10 28	704	0.3+ 1.4–	2000 02 04	704	1.9+ 0.1–	2000 03 05	704	0.3+ 0.5–
1998 10 28	704	0.7– 0.8–	2000 02 04	704	0.2+ 0.9+	2000 03 05	704	0.1+ 0.5–
1998 10 28	704	0.6– 0.8–	2000 02 04	704	(2.3+ 0.9–)			
1998 10 28	704	0.2– 0.2–	2000 02 12	704	1.8+ 1.9–			

(14607)* 1998 SG₁₃₂ = 1990 DX₇ = 1991 RM₁₇

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33043)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	288.78436		(2000.0)	P	Q
<i>n</i>	0.29257221	ω	255.52623	–0.58022254	+0.81374656
<i>a</i>	2.2472290	Ω	338.89768	–0.70610799	–0.52341985
<i>e</i>	0.1294445	<i>i</i>	5.42432	–0.40589815	–0.25268200
<i>P</i>	3.37	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1990 02 18	399	0.5– 1.0+	1999 12 04	703	0.1+ 0.3+	2000 02 27	703	0.1+ 0.1+
1990 02 18	399	1.3+ 0.0	1999 12 04	703	0.8– 0.1+	2000 02 27	703	0.1– 0.1–
1991 09 11	675	1.5+ 0.9–	1999 12 04	703	0.0 0.5–	2000 02 27	703	0.1+ 0.1+
1991 09 11	675	1.0– 1.1–	1999 12 06	704	0.1+ 0.7–	2000 02 29	704	0.1– 0.3–
1991 09 16	675	(1.1– 3.1–)	1999 12 06	704	0.8+ 0.2–	2000 02 29	704	0.0 0.3–
1991 09 16	675	(1.5– 3.0–)	1999 12 06	704	0.0 1.2–	2000 02 29	704	0.1– 1.1–
1998 09 23	098	0.6– 0.1+	1999 12 06	704	0.2– 1.7–	2000 02 29	704	0.2– 0.5–
1998 09 23	098	1.3– 1.8+	1999 12 15	704	(2.1– 2.6+)	2000 02 29	704	0.2– 0.7–
1998 09 23	098	0.5– 0.4–	1999 12 15	704	1.0– 1.1+	2000 03 03	704	0.1– 0.3+
1998 09 26	704	0.6– 0.2–	1999 12 15	704	0.7– 0.5+	2000 03 03	704	0.3– 0.0
1998 09 26	704	0.6+ 0.3+	1999 12 15	704	1.1– 0.2+	2000 03 03	704	0.1– 0.7–
1998 09 26	704	0.2– 0.0	2000 01 07	106	0.2– 0.2+	2000 03 03	704	0.9– 0.4–
1998 09 26	704	0.3+ 0.2–	2000 01 07	106	0.0 0.3+	2000 03 03	704	0.4– 0.1+
1998 09 26	704	0.1– 0.3–	2000 01 07	106	0.4– 0.2+	2000 03 05	704	0.1– 0.3+
1998 09 27	704	0.4– 0.3–	2000 01 13	699	0.3– 0.2+	2000 03 05	704	0.3+ 0.8+
1998 09 27	704	0.4– 0.1–	2000 01 13	699	0.2– 1.0+	2000 03 05	704	0.3+ 0.4+
1998 09 27	704	1.1– 0.3–	2000 01 13	699	0.1+ 0.9+	2000 03 05	704	0.8+ 0.3+
1998 09 27	704	0.0 0.7–	2000 01 29	703	0.1– 0.2+	2000 03 05	704	0.4+ 0.5+
1998 09 27	704	0.8– 0.1–	2000 01 29	703	1.1+ 0.2–	2000 03 06	704	0.2– 0.1–
1998 10 11	699	0.8+ 0.4+	2000 01 29	703	0.2– 0.0	2000 03 06	704	0.1– 0.1+
1998 10 11	699	0.9+ 0.1+	2000 01 29	703	0.1+ 0.2+	2000 03 06	704	0.0 0.3+

2000 APR. 18

M.P.C. 39879

1998 10 11	699	1.4+	0.5-	2000 01 30	704	1.0+	1.6-	2000 03 06	704	0.4+	0.3+
1998 10 22	327	0.2-	0.1-	2000 01 30	704	0.2+	0.2+	2000 03 06	704	0.4+	0.7+
1998 10 22	327	0.3-	0.0	2000 01 30	704	0.1+	0.8+	2000 03 08	704	0.1+	0.2+
1998 10 22	327	0.1-	0.0	2000 02 03	704	0.2+	0.1+	2000 03 08	704	0.2+	0.3+
1998 10 28	704	0.1+	0.2-	2000 02 03	704	0.5+	0.0	2000 03 08	704	0.1+	0.0
1998 10 28	704	0.7+	0.0	2000 02 03	704	0.4+	0.2-	2000 03 08	704	0.2-	0.0
1998 10 28	704	0.5+	0.1-	2000 02 03	704	0.1-	0.4-	2000 03 08	704	0.0	0.4-
1998 10 28	704	0.0	0.1-	2000 02 03	704	0.1+	0.2-	2000 03 09	704	0.3+	0.0
1998 10 28	704	0.9+	0.6+	2000 02 06	703	0.0	0.1+	2000 03 09	704	0.5+	0.0
1998 10 29	704	0.5-	0.6-	2000 02 06	703	0.2+	0.0	2000 03 09	704	0.1+	0.0
1998 10 29	704	0.4+	0.4-	2000 02 06	703	0.0	0.5-	2000 03 09	704	0.2+	0.1-
1998 10 29	704	0.8-	0.3+	2000 02 06	703	0.1-	0.1+	2000 03 09	704	0.1+	0.1-
1998 10 29	704	0.4+	0.2-	2000 02 11	704	0.3-	0.1-	2000 03 11	704	0.2+	0.2-
1998 10 29	704	0.7+	0.2-	2000 02 11	704	0.1+	0.7-	2000 03 11	704	0.2-	0.1-
1998 10 29	327	0.1-	0.3-	2000 02 11	704	0.1-	0.1-	2000 03 11	691	0.5-	0.1-
1998 10 29	327	0.1-	0.4-	2000 02 11	704	0.3-	0.0	2000 03 11	704	0.3-	0.0
1998 10 29	327	0.2+	0.3-	2000 02 11	704	0.3-	0.1+	2000 03 11	691	0.5-	0.6-
1998 11 10	704	0.0	0.6+	2000 02 13	704	1.9-	0.8+	2000 03 11	704	0.2-	0.1+
1998 11 10	704	0.5+	1.0+	2000 02 13	704	0.5+	0.3-	2000 03 11	704	0.6-	0.1+
1998 11 10	704	0.1-	0.1+	2000 02 13	704	0.3+	0.1-	2000 03 11	691	0.5-	0.7-
1998 11 10	704	0.1+	0.8+	2000 02 13	704	0.3+	0.2-	2000 04 02	699	0.3+	0.1+
1998 11 11	704	0.1+	0.1+	2000 02 14	704	0.5+	0.3+	2000 04 02	699	0.6-	0.5+
1998 11 11	704	(2.5-	0.9+)	2000 02 14	704	0.2+	0.2+	2000 04 02	699	0.0	0.4+
1998 11 11	704	0.3-	1.5+	2000 02 14	704	0.0	0.2-	2000 04 02	699	0.4+	0.3+
1998 11 11	704	0.4-	0.5+	2000 02 14	704	0.1+	0.2-	2000 04 03	704	0.4+	1.1+
1998 11 11	704	0.5-	0.9+	2000 02 16	704	0.1-	0.1+	2000 04 03	704	0.6+	1.0+
1999 11 16	704	0.8-	0.1+	2000 02 16	704	0.1+	0.1+	2000 04 03	704	0.3+	1.1-
1999 11 16	704	0.2+	0.3+	2000 02 16	704	0.2+	0.0	2000 04 03	704	(0.9+	2.4-)
1999 11 16	704	0.9-	1.1-	2000 02 16	704	0.1+	0.4+	2000 04 10	704	0.2+	0.2-
1999 11 16	704	0.2-	0.0	2000 02 16	704	0.0	0.2-	2000 04 10	704	0.8-	0.7-
1999 12 04	703	0.1+	0.6-	2000 02 27	703	0.2-	0.1-	2000 04 10	704	0.3+	0.5-

(14608)* 1998 SN₁₃₅ = 1987 SU₂₁ = 1991 UG₄

Discovered 1998 Sept. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 33293)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	120.79450	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26940982	ω	356.39430	+0.79941578	-0.59437735
<i>a</i>	2.3742536	Ω	40.49585	+0.55451773	+0.67397741
<i>e</i>	0.0538338	<i>i</i>	7.74047	+0.23118066	+0.43871404
<i>P</i>	3.66	<i>H</i>	13.7	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1987 09 18	095	1.0+	1.9-	1998 10 28	704	0.3+	0.5-	2000 02 04	704	0.5-	1.0+
1991 10 30	033	0.9-	0.6-	1998 10 28	704	0.2+	0.6-	2000 03 03	106	0.6+	0.3+
1991 10 31	033	0.5+	1.2-	1998 10 28	704	0.0	0.3-	2000 03 03	106	0.4-	0.3-
1991 11 01	033	0.9+	0.0	1998 10 28	704	1.6-	0.1+	2000 03 03	106	0.3-	0.5-
1998 09 18	699	0.3-	0.2-	1998 10 29	704	0.3+	0.2+	2000 03 05	704	0.4+	0.1+
1998 09 18	699	0.4-	0.2+	1998 10 29	704	0.9-	0.1-	2000 03 05	704	0.5+	0.2+
1998 09 18	699	0.3+	0.2+	1998 10 29	704	0.2+	0.4+	2000 03 05	704	0.2+	0.0
1998 09 26	704	0.7+	0.6+	1998 10 29	704	0.3+	0.2+	2000 03 05	704	0.4+	0.3+
1998 09 26	704	0.8-	0.1-	1998 10 29	704	0.4-	0.8-	2000 03 05	704	0.5+	0.1+
1998 09 26	704	0.0	0.8-	1998 11 10	704	0.1+	0.3-	2000 03 12	704	0.1+	0.1+
1998 09 26	704	0.2-	0.7-	1998 11 10	704	0.5-	0.6+	2000 03 12	704	0.1+	0.4+
1998 09 26	704	0.3+	0.3-	1998 11 10	704	0.4-	1.0+	2000 03 12	704	0.4-	0.1+
1998 09 27	704	0.0	0.1-	1998 11 10	704	0.1-	1.0+	2000 03 12	704	0.3+	0.0
1998 09 27	704	0.2+	0.1+	1999 01 18	691	0.1+	0.1+	2000 03 12	704	1.8-	0.5+
1998 09 27	704	0.1-	0.0	1999 01 18	691	1.1-	0.2+	2000 04 04	704	0.4+	0.5+
1998 09 27	704	0.7-	0.7+	2000 01 07	704	0.2-	0.0	2000 04 04	704	0.1-	0.1-
1998 09 27	704	0.7-	0.2-	2000 01 07	704	0.2-	0.2-	2000 04 04	704	0.3-	0.1-
1998 10 11	699	0.4+	0.6+	2000 01 07	704	0.0	0.5-	2000 04 04	704	0.3-	0.0
1998 10 11	699	0.6+	0.3+	2000 01 07	704	0.6+	0.2+	2000 04 04	704	0.3+	0.1+
1998 10 11	699	0.7+	0.3+	2000 01 07	704	0.1-	1.2-	2000 04 06	608	0.8+	0.9-
1998 10 20	699	0.6+	0.3+	2000 02 04	704	0.1-	0.2+	2000 04 06	608	0.5+	1.3-
1998 10 20	699	0.2+	0.8+	2000 02 04	704	0.6-	0.3+	2000 04 06	608	0.2+	1.1-

1998 10 20	699	0.2+	0.5+	2000 02 04	704	0.1+	0.3+
1998 10 28	704	0.1+	0.2-	2000 02 04	704	0.1-	1.1+

(14609)* 1998 SW₁₄₅ = 1985 DO₃

Discovered 1998 Sept. 20 by E. W. Elst at the European Southern Observatory.

Id. G. V. Williams (*MPC* 33045)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	22.46147	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26697663	ω	40.14243	-0.88752478	-0.45986450
<i>a</i>	2.3886575	Ω	112.45720	+0.41437205	-0.82386994
<i>e</i>	0.1439020	<i>i</i>	1.78039	+0.20148343	-0.33130493
<i>P</i>	3.69	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1985 02 20	675	0.2+	0.0	1998 10 26	749	1.3-	0.2+	2000 03 09	704	0.1+	1.0+
1985 02 22	675	0.9-	1.7-	1998 10 26	749	0.1+	0.9+	2000 03 09	704	0.0	2.0+
1996 04 17	566	(1.0+	3.9-)	1998 10 28	704	1.8+	1.3+	2000 03 27	699	0.1+	0.3+
1996 04 17	566	0.0	0.5-	1998 10 28	704	0.9-	0.1+	2000 03 27	699	0.2+	0.4+
1996 04 17	566	(0.8+	3.9-)	1998 10 28	704	0.2-	1.1-	2000 03 27	699	0.3+	0.0
1996 04 17	566	0.1+	0.6-	1998 10 28	704	1.4-	0.3+	2000 03 27	699	0.3+	0.6+
1996 04 17	566	(0.8+	3.6-)	1998 10 29	704	1.0+	1.2+	2000 04 02	699	0.2-	0.0
1996 04 17	566	0.0	0.3-	1998 10 29	737	0.0	0.3+	2000 04 02	699	0.0	0.3+
1998 09 20	809	1.0+	0.3+	1998 10 29	704	0.0	0.8-	2000 04 02	699	0.4-	0.2+
1998 09 20	809	0.4-	0.3-	1998 10 29	737	0.3-	0.0	2000 04 02	699	0.4-	0.3+
1998 09 20	809	1.0-	0.3-	1998 10 29	704	0.4-	0.4+	2000 04 03	699	0.2-	0.2+
1998 09 21	809	1.8+	1.8+	1998 10 29	704	0.4-	0.1-	2000 04 03	699	1.0-	0.6+
1998 09 21	809	1.6+	0.7+	1998 10 29	704	0.5-	0.2-	2000 04 03	699	0.4+	0.3+
1998 09 21	809	0.7+	2.0+	1998 11 11	704	1.3+	1.0+	2000 04 03	699	0.3-	0.0
1998 10 10	699	0.3-	0.6+	1998 11 11	704	0.7-	1.7-	2000 04 04	704	0.1+	0.0
1998 10 10	699	(0.9+	2.5+)	1998 11 11	704	1.9+	0.8-	2000 04 04	704	0.3+	0.5+
1998 10 10	699	1.1-	2.0+	1998 11 11	704	0.0	0.1+	2000 04 04	704	0.5+	0.6+
1998 10 22	737	0.6-	0.1+	2000 02 08	704	0.2+	0.6+	2000 04 04	704	0.4+	0.7+
1998 10 22	737	0.2-	0.6-	2000 02 08	704	0.5+	0.8+	2000 04 04	704	0.5+	0.6+
1998 10 22	737	0.5-	0.2+	2000 02 08	704	(0.4+	3.5+)	2000 04 06	699	0.2-	0.3+
1998 10 22	737	0.7-	0.1+	2000 03 04	703	0.1-	0.1-	2000 04 06	699	0.0	0.6+
1998 10 23	737	0.9-	0.4+	2000 03 04	703	0.3+	0.4+	2000 04 06	699	0.1-	0.3+
1998 10 23	737	1.3-	0.1-	2000 03 04	703	0.0	0.1-	2000 04 06	699	0.3-	0.4+
1998 10 23	737	0.6-	0.0	2000 03 04	703	0.1-	0.6-	2000 04 08	704	0.4+	0.3+
1998 10 23	737	0.1+	0.5-	2000 03 06	608	0.3+	1.5-	2000 04 08	704	0.2+	0.0
1998 10 24	737	0.1+	0.3+	2000 03 06	608	0.2+	0.9-	2000 04 08	704	0.2+	0.0
1998 10 24	737	0.2-	0.5+	2000 03 06	608	0.2-	1.0-	2000 04 08	704	0.2+	0.1-
1998 10 25	749	0.1+	0.4-	2000 03 07	120	1.0-	1.0+	2000 04 08	704	0.4-	0.2-
1998 10 25	737	0.3-	0.1-	2000 03 07	120	1.4+	1.2-	2000 04 10	704	0.2+	0.2+
1998 10 25	749	0.5-	0.1-	2000 03 07	120	0.1-	0.2-	2000 04 10	704	0.1+	0.2+
1998 10 25	737	0.2-	0.0	2000 03 09	704	1.0+	0.3-	2000 04 10	704	0.1-	0.3+
1998 10 25	749	0.5+	0.4+	2000 03 09	704	0.5+	0.6+	2000 04 10	704	0.4+	0.5+
1998 10 26	749	0.1+	1.0+	2000 03 09	704	0.1-	0.7+	2000 04 10	704	0.4+	0.3+

1998 09 13	696	0.8−	0.3−	1998 11 11	704	1.8−	0.2+	2000 03 09	704	0.3−	0.1+
1998 09 13	696	1.2−	1.0+	1998 11 11	704	0.6+	0.3+	2000 03 09	704	0.4−	0.3−
1998 09 20	809	1.6−	1.3+	1998 11 11	704	0.5+	0.1−	2000 03 13	704	0.3+	0.1+
1998 09 20	809	1.7−	0.6−	1998 11 11	704	0.3−	0.7−	2000 03 13	704	0.6+	0.4−
1998 09 20	809	1.4−	0.6+	1998 11 11	704	0.8+	1.0−	2000 03 13	704	0.1+	0.3+
1998 09 21	809	(2.5+ 4.1+)		1998 11 14	699	0.3+	0.7+	2000 03 13	704	0.1−	0.3−
1998 09 21	809	(2.8+ 4.0+)		1998 11 14	699	1.4+	0.2+	2000 03 13	704	0.8−	0.4−
1998 09 21	809	(1.6+ 3.9+)		1998 11 14	699	0.7+	0.1+	2000 04 04	704	0.1+	0.0
1998 10 28	704	0.2+	1.0+	1998 11 23	699	0.6−	0.4+	2000 04 04	704	0.5+	0.4−
1998 10 28	704	0.4−	0.0	1998 11 23	699	0.6−	0.0	2000 04 04	704	0.5+	0.8−
1998 10 28	704	0.1+	0.7+	1998 11 23	699	0.4−	0.0	2000 04 04	704	0.6+	1.0+
1998 10 28	704	0.3−	1.7+	1999 01 11	704	0.1+	1.3−	2000 04 04	704	0.5+	0.1−
1998 10 29	704	0.9+	0.2+	1999 01 11	704	1.1+	0.4+	2000 04 08	704	0.1−	0.6+
1998 10 29	704	0.5+	0.7+	1999 01 11	704	(1.3+ 2.2−)		2000 04 08	704	0.5+	0.3+
1998 10 29	704	1.1+	0.3−	1999 01 11	704	(5.3− 0.9−)		2000 04 08	704	0.2−	0.5+
1998 10 29	704	1.3+	0.4−	2000 01 11	699	0.3−	0.6+	2000 04 08	704	0.4+	0.9+
1998 10 29	704	0.4+	0.0	2000 01 11	699	0.7+	1.7+	2000 04 08	704	0.4−	0.9+

(14611)* 1998 SA₁₄₈ = 4055 T-1 = 1977 RW₁₄

Discovered 1998 Sept. 20 by E. W. Elst at the European Southern Observatory.

Id. A. Gnädig (*MPC* 33299), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	89.15502	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.23740475	ω	255.69583	+0.35957302	−0.93307918
<i>a</i>	2.5831112	Ω	173.21243	+0.88116712	+0.33658022
<i>e</i>	0.1492880	<i>i</i>	4.07369	+0.30700449	+0.12679512
<i>P</i>	4.15	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1971 03 24	675	0.1+	0.9−	1998 10 20	699	0.1+	0.7+	2000 03 11	704	0.4+	0.3−
1971 03 26	675	0.3−	1.7−	1998 10 20	699	0.8+	0.1−	2000 03 11	704	0.6+	0.1+
1971 03 26	675	1.1−	1.8−	1998 11 10	704	0.1+	0.6−	2000 03 11	704	0.3+	0.0
1971 03 27	675	0.4−	2.0−	1998 11 10	704	0.3+	0.5−	2000 03 26	699	1.2−	1.0+
1977 09 09	675	0.7−	0.9−	1998 11 10	704	0.0	0.6+	2000 03 26	699	0.4−	0.3+
1977 09 10	675	(0.9− 3.2−)		1998 11 10	704	0.3−	1.3−	2000 03 26	699	0.7−	1.0+
1992 04 07	691	0.5+	0.5−	1998 11 11	704	0.1+	0.8−	2000 03 26	699	1.4−	0.4+
1992 04 07	691	0.5+	0.0	1998 11 11	704	0.7−	1.1+	2000 04 05	704	0.1−	0.7−
1992 04 07	691	0.2+	0.1−	1998 11 11	704	0.7+	1.4−	2000 04 05	704	0.2−	0.1+
1998 09 14	699	1.6+	1.8+	1998 11 11	704	0.6−	0.5+	2000 04 05	704	0.2+	0.4+
1998 09 14	699	1.2−	0.4+	1998 11 11	704	0.6−	0.9−	2000 04 05	704	0.2+	0.8+
1998 09 14	699	0.7+	0.1−	2000 02 27	703	0.3+	0.8+	2000 04 05	704	0.3+	0.1+
1998 09 20	809	0.2−	0.7−	2000 02 27	703	0.2+	0.5−	2000 04 06	704	0.0	0.0
1998 09 20	809	1.6−	0.1−	2000 02 27	703	0.1−	0.2−	2000 04 06	704	0.3+	0.8+
1998 09 20	809	1.6−	0.4−	2000 02 27	703	1.6+	0.4+	2000 04 06	704	0.4+	0.5+
1998 09 21	809	0.8+	0.4+	2000 03 10	704	0.6−	0.4−	2000 04 06	704	0.9+	1.1+
1998 09 21	809	0.7+	0.6+	2000 03 10	704	0.1+	0.0	2000 04 07	699	0.4+	0.2−
1998 09 21	809	0.4+	1.0−	2000 03 10	704	0.0	0.5+	2000 04 07	699	0.9−	0.1−
1998 10 14	699	0.5+	0.7+	2000 03 10	704	0.1+	0.0	2000 04 07	699	0.1−	0.6+
1998 10 14	699	0.3+	0.4+	2000 03 10	704	0.6−	0.2+	2000 04 07	699	0.2−	0.5−
1998 10 14	699	0.7+	0.8+	2000 03 11	704	0.6+	0.0				
1998 10 20	699	0.1−	0.0	2000 03 11	704	0.1+	0.3+				

(14612)* 1998 SG₁₆₄ = 1974 OK₁ = 2000 AF₈₀

Discovered 1998 Sept. 18 by E. W. Elst at the European Southern Observatory.

Id. M. E. Sansaturio (*MPC* 37790), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	259.93011	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.17590249	ω	81.27319	−0.73193340	+0.67672174
<i>a</i>	3.1546757	Ω	141.25496	−0.66439063	−0.68292130
<i>e</i>	0.0908871	<i>i</i>	7.29831	−0.15119061	−0.27507487
<i>P</i>	5.60	<i>H</i>	12.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1974 07 19	808	0.6+	0.1+	1998 11 11	704	0.5−	0.5+	2000 01 06	704	0.3+	0.4−
1974 07 19	808	0.6−	0.8+	1998 11 19	699	0.3+	0.8+	2000 01 06	704	0.4+	0.4−
1995 03 04	033	0.5+	0.4+	1998 11 19	699	0.9+	1.1+	2000 01 25	704	0.2+	0.3+
1995 03 04	033	0.6−	0.1+	1998 11 19	699	0.3−	1.2+	2000 01 25	704	0.1+	0.0
1998 09 18	809	0.8+	1.0−	1999 10 10	704	0.2−	0.2+	2000 01 25	704	0.4+	1.6+
1998 09 18	809	0.9+	1.4−	1999 10 10	704	0.2+	0.6+	2000 01 25	704	0.9−	0.4−
1998 09 18	809	0.5−	1.2−	1999 10 10	704	0.0	0.7+	2000 01 25	704	0.5−	0.2−
1998 09 19	809	0.5+	0.2−	1999 12 06	704	0.2+	0.2−	2000 02 02	704	0.4−	1.2+
1998 09 19	809	0.7+	0.1−	1999 12 06	704	0.6−	0.4−	2000 02 02	704	1.3−	0.1+
1998 09 19	809	0.8−	0.1−	1999 12 06	704	0.2+	0.3−	2000 02 02	704	0.2−	0.3+
1998 10 12	699	0.8+	0.7+	1999 12 06	704	0.4+	0.1+	2000 02 02	704	0.6−	0.0
1998 10 12	699	0.3+	0.0	1999 12 14	704	1.2+	0.3+	2000 02 02	704	0.3−	0.4−
1998 10 12	699	0.2+	1.0+	1999 12 14	704	0.6+	1.2+	2000 02 03	704	0.1+	0.1+
1998 11 10	704	0.4−	0.2+	1999 12 14	704	0.8+	1.2+	2000 02 03	704	0.1−	0.1−
1998 11 10	704	0.2+	0.4+	1999 12 14	704	0.0	0.2+	2000 02 03	704	0.2−	1.0−
1998 11 10	704	0.2−	0.5+	1999 12 14	704	0.8+	0.3−	2000 02 03	704	0.7−	0.4−
1998 11 10	704	0.6−	0.1+	2000 01 05	704	0.2−	0.6−	2000 02 03	704	0.1+	0.2−
1998 11 10	704	0.2−	0.4−	2000 01 05	704	0.3+	1.6−	2000 04 04	704	0.3−	0.5−
1998 11 11	704	0.0	0.2−	2000 01 05	704	0.4−	0.2−	2000 04 04	704	0.4+	0.3+
1998 11 11	704	0.5−	0.6−	2000 01 05	704	0.0	0.2−	2000 04 04	704	1.0+	0.5−
1998 11 11	704	0.7−	0.8−	2000 01 05	704	0.2−	0.2+				
1998 11 11	704	0.8−	1.0−	2000 01 06	704	0.1+	0.1−				

(14613)* 1998 TP₂ = 1982 BR₁₀ = 2000 AX₂₁₅

Discovered 1998 Oct. 13 by the OCA-DLR Asteroid Survey at Caussols.

Id. G. V. Williams (*MPC* 37792)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	126.52777	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.22378313	ω	82.04947	+0.99458553	−0.09949873
<i>a</i>	2.6868978	Ω	283.65715	+0.07896736	+0.91122256
<i>e</i>	0.2339383	<i>i</i>	1.76880	+0.06755573	+0.39971671
<i>P</i>	4.40	<i>H</i>	13.3	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1982 01 19	095	0.2+	0.4−	1998 11 11	704	0.8−	0.9−	2000 02 02	704	0.2−	0.3−
1996 03 20	566	0.7−	0.1−	1998 11 11	704	0.8−	0.0	2000 02 02	703	0.5−	0.7+
1996 03 20	566	0.4−	0.6+	1998 11 11	704	0.6−	0.1−	2000 02 02	704	0.3−	0.2+
1996 03 20	566	0.4−	0.3+	1998 11 16	627	0.4−	0.1−	2000 02 02	703	0.5−	0.8+
1998 08 28	704	0.0	0.6−	1998 11 16	627	0.5−	0.1+	2000 02 02	704	0.4−	0.5+
1998 08 28	704	1.9+	1.2−	1998 11 17	627	0.3+	0.1−	2000 02 02	703	0.4+	0.2−
1998 08 28	704	1.4+	1.3−	1999 01 06	699	0.0	1.0−	2000 02 04	704	0.4+	0.2+
1998 08 28	704	1.0+	1.0−	1999 01 06	699	0.1−	0.1−	2000 02 04	704	0.1+	0.8−
1998 08 28	704	1.0+	0.5+	1999 01 06	699	0.1−	0.2+	2000 02 04	704	1.1+	0.2−
1998 10 11	699	0.3+	0.0	1999 01 08	704	0.1+	0.4+	2000 02 04	704	0.2−	0.7+
1998 10 11	699	0.5+	0.1+	1999 01 08	704	0.7+	0.3+	2000 02 04	704	0.9+	0.1+
1998 10 11	699	0.5+	0.1−	1999 01 08	704	0.5−	0.4+	2000 02 10	732	0.7−	0.0
1998 10 13	910	0.6+	0.1+	1999 01 08	704	0.1+	0.0	2000 02 10	732	1.0−	0.3−
1998 10 13	910	0.7+	0.2+	1999 01 08	704	0.8−	0.4+	2000 02 10	732	1.0−	0.1−
1998 10 13	910	0.5+	0.2+	1999 01 11	704	1.1−	0.7+	2000 02 12	704	(2.3+ 0.9−)	
1998 10 15	910	0.3+	0.2+	1999 01 11	704	0.2+	1.8−	2000 02 12	704	(1.9+ 2.1−)	
1998 10 15	910	0.4+	0.3+	1999 01 11	704	0.5−	0.1+	2000 02 12	704	(1.6+ 3.8−)	
1998 10 15	910	0.3+	0.3+	1999 01 11	704	1.4−	0.7−	2000 02 29	704	0.3+	0.3+
1998 10 20	910	0.1−	0.4+	1999 01 11	704	0.7+	0.5−	2000 02 29	704	1.0+	0.1+
1998 10 20	910	0.2−	0.3+	1999 02 17	910	(2.5− 0.3−)		2000 02 29	704	0.4+	0.1+
1998 10 20	910	0.2−	0.4+	1999 02 17	910	(2.3− 0.7−)		2000 02 29	704	1.2+	0.1+
1998 10 21	910	0.9+	0.6+	1999 02 17	910	(2.5− 0.4−)		2000 02 29	704	0.5+	0.3+
1998 10 21	910	0.9+	0.7+	1999 12 05	703	0.6+	1.1−	2000 03 03	704	0.8+	0.1+
1998 10 21	910	0.8+	0.6+	1999 12 05	703	0.3+	1.2−	2000 03 03	704	0.6+	0.3+
1998 10 28	704	0.3−	0.8+	1999 12 05	703	0.3−	0.2−	2000 03 03	704	0.5+	0.1−
1998 10 28	704	0.6−	0.3+	1999 12 05	703	0.6−	0.0	2000 03 03	704	0.6+	0.5−
1998 10 28	704	0.9−	0.5−	2000 01 07	691	0.4−	1.0−	2000 03 03	704	0.2+	0.8−
1998 10 28	704	1.4−	0.2−	2000 01 07	691	0.6−	1.0−	2000 03 05	704	0.1+	0.4+
1998 10 29	704	0.2−	0.8+	2000 01 07	691	0.5−	0.7−	2000 03 05	704	0.2−	0.2−
1998 10 29	704	0.3−	0.3−	2000 01 08	691	0.2−	0.6−	2000 03 05	704	0.0	0.2+
1998 10 29	704	0.6−	0.1+	2000 01 08	691	0.3−	0.6−	2000 03 05	704	0.1+	0.0

1998 10 29	704	1.1−	0.5−	2000 01 08	691	0.1−	0.6−	2000 03 05	704	0.1+	0.2−
1998 10 29	704	1.4−	0.4−	2000 01 13	699	0.1−	0.2+	2000 03 11	704	0.1−	0.0
1998 11 06	132	0.3+	0.6−	2000 01 13	699	0.7+	0.7+	2000 03 11	704	1.0−	0.2+
1998 11 06	132	0.4+	0.2+	2000 01 13	699	0.4−	0.3+	2000 03 11	704	0.5+	0.4+
1998 11 06	132	0.5+	0.2−	2000 02 02	704	0.5−	0.3+	2000 03 11	704	0.8+	0.2−
1998 11 11	704	0.0	0.2−	2000 02 02	704	0.3−	0.7+	2000 03 11	704	0.1−	0.1−
1998 11 11	704	0.5−	1.1+	2000 02 02	703	0.1−	0.5+				

(14614)* 1998 TX₂ = 4784 P-L = 1984 DL₂ = 1984 EL₁

Discovered 1998 Oct. 13 by the OCA-DLR Asteroid Survey at Caussols.

Id. A. Doppler (*MPC* 33302), F. N. Bowman (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	346.48600		(2000.0)		P		Q
<i>n</i>	0.18377357	ω	147.21319		−0.89846237		−0.43896544
<i>a</i>	3.0639430	Ω	6.76594		+0.38536462		−0.79788160
<i>e</i>	0.1454771	<i>i</i>	4.20748		+0.21037938		−0.41315167
<i>P</i>	5.36	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.3−	0.3+	1998 10 20	910	0.7−	0.1+	2000 01 30	704	0.3−	0.6−
1960 09 26	675	0.0	0.4+	1998 10 20	691	0.2−	0.4−	2000 01 30	704	0.3−	0.0
1960 09 27	675	0.4−	1.8+	1998 10 20	691	0.6−	0.3−	2000 01 30	704	0.5−	0.2−
1960 09 28	675	1.0−	0.8+	1998 10 20	691	0.6−	0.4−	2000 02 11	704	0.1+	0.4+
1984 02 26	095	(4.1+	1.4−)	2000 01 03	704	0.2+	0.2−	2000 02 11	704	0.4+	0.1−
1984 03 03	801	(4.7−	1.8−)	2000 01 03	704	0.6−	0.3−	2000 02 11	704	0.1−	0.2+
1995 03 23	033	0.5+	0.6−	2000 01 03	704	0.3−	1.3+	2000 02 11	704	0.1+	1.2−
1995 03 24	033	0.7−	0.6+	2000 01 03	704	0.0	1.5+	2000 02 11	704	0.3−	0.6−
1998 10 13	910	1.0+	0.3−	2000 01 03	704	0.2−	0.0	2000 03 04	704	0.8+	0.3+
1998 10 13	910	1.1+	0.2+	2000 01 04	704	1.1+	0.9+	2000 03 04	704	0.2+	0.4−
1998 10 13	910	0.6+	0.0	2000 01 04	704	0.1+	0.0	2000 03 04	704	0.3+	0.0
1998 10 15	910	0.9+	0.7−	2000 01 04	704	0.4−	0.9+	2000 03 04	704	0.2+	0.5−
1998 10 15	910	0.3+	0.7−	2000 01 04	704	(0.5+	2.7+)	2000 03 04	704	0.5−	0.8−
1998 10 15	910	0.2+	0.8−	2000 01 04	704	1.0−	1.4+	2000 04 02	704	0.1+	0.4+
1998 10 15	691	0.0	0.1+	2000 01 05	699	0.8+	0.3+	2000 04 02	704	1.5+	1.3+
1998 10 15	691	0.0	0.2−	2000 01 05	699	0.1+	0.1−	2000 04 02	704	0.7+	0.4−
1998 10 15	691	0.3+	0.1+	2000 01 05	699	0.5−	0.5−	2000 04 02	704	0.3+	0.0
1998 10 20	910	0.5−	0.1−	2000 01 30	704	0.2−	0.4−				
1998 10 20	910	0.5−	0.3+	2000 01 30	704	0.2−	0.4−				

(14615)* 1998 TR₅

Discovered 1998 Oct. 13 by K. Korlević at Višnjan.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	136.53587		(2000.0)		P		Q
<i>n</i>	0.27418565	ω	3.47087		+0.81270199		−0.57990734
<i>a</i>	2.3466027	Ω	32.18642		+0.53199869		+0.69874038
<i>e</i>	0.0609385	<i>i</i>	6.11804		+0.23768228		+0.41889063
<i>P</i>	3.59	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 09 24	675	1.4−	0.7+	1998 10 19	691	0.3−	0.5−	2000 03 12	704	1.6−	0.4−
1987 09 24	675	0.8+	1.7+	1998 10 20	120	0.1+	0.4+	2000 03 12	704	1.2−	0.9−
1992 01 24	675	0.5+	0.2−	1998 10 20	120	0.4+	0.2+	2000 03 14	703	0.0	0.1−
1992 01 24	675	0.7−	0.3−	1998 10 23	327	0.6+	0.0	2000 03 14	703	0.1+	0.7+
1993 03 30	413	(3.0−	0.8+)	1998 10 23	327	0.6+	0.0	2000 03 14	703	0.4−	0.1+
1993 03 30	413	1.1−	1.0+	1998 10 23	327	0.4+	0.1+	2000 03 14	703	0.5−	0.3+
1995 11 30	675	0.3−	0.4+	1998 10 23	327	0.5+	0.0	2000 03 26	699	0.3−	0.2+
1995 11 30	675	0.1−	0.1−	1998 10 23	327	0.5+	0.1+	2000 03 26	699	0.4−	0.2+
1995 12 01	675	1.7+	0.1+	1998 10 23	327	0.3+	0.0	2000 03 26	699	0.2−	0.0
1995 12 01	675	0.8+	0.2+	1998 11 10	704	0.1−	0.2−	2000 03 26	699	0.1−	0.4+
1996 04 08	675	0.1+	0.8−	1998 11 10	704	0.5+	0.1−	2000 03 29	704	0.1+	0.3+
1996 04 08	675	1.3−	0.7+	1998 11 10	704	0.6+	0.2−	2000 03 29	704	0.5+	0.1−
1998 08 31	704	1.6−	0.4−	1998 11 10	704	0.3+	0.3+	2000 03 29	704	0.5+	0.3+
1998 08 31	704	1.6−	1.4+	1998 11 10	704	0.1−	0.9−	2000 03 29	704	0.2−	0.5+
1998 08 31	704	1.3−	0.4+	1998 11 11	704	0.0	0.5−	2000 04 05	704	0.0	0.1+
1998 08 31	704	(0.8−	2.4+)	1998 11 11	704	0.2+	0.4−	2000 04 05	704	0.5+	0.3−

1998 09 29	910	0.3+	0.2+	1998 11 11	704	0.7+	0.1−	2000 04 05	704	0.3+	0.3+
1998 09 29	910	0.1+	0.3+	1998 11 11	704	0.6+	0.0	2000 04 05	704	0.6+	0.3−
1998 09 29	910	0.1+	0.2+	1998 11 11	704	0.3+	0.1+	2000 04 05	704	0.8+	0.0
1998 10 03	327	0.3−	1.1+	1998 11 17	691	0.4−	0.2−	2000 04 07	699	0.3+	0.1+
1998 10 03	327	0.8−	0.9+	1998 11 17	691	0.5−	0.6−	2000 04 07	699	0.1−	0.5+
1998 10 03	327	0.5−	0.9+	1999 01 08	704	0.9+	0.8−	2000 04 07	699	0.1+	1.0+
1998 10 10	699	0.2+	0.3+	1999 01 08	699	0.4−	0.3−	2000 04 07	699	0.2+	0.3+
1998 10 10	699	0.4−	1.1+	1999 01 08	704	0.6−	0.2+	2000 04 08	704	0.3+	0.5+
1998 10 10	699	0.2+	0.9+	1999 01 08	704	2.0−	0.2+	2000 04 08	704	0.2+	0.3−
1998 10 13	120	0.0	0.0	1999 01 08	699	0.0	1.0−	2000 04 08	704	0.6+	0.1+
1998 10 13	120	0.2−	0.0	1999 01 08	704	0.9+	0.3−	2000 04 08	704	0.1−	0.0
1998 10 13	120	0.2−	0.2−	1999 01 08	699	0.8−	0.1−	2000 04 08	704	0.2+	0.2−
1998 10 14	691	0.3−	0.3+	2000 02 27	703	0.1−	0.5+	2000 04 10	704	0.8+	0.2−
1998 10 14	691	0.3−	0.2−	2000 02 27	703	0.6+	0.2+	2000 04 10	704	0.3−	0.3+
1998 10 14	691	0.4−	0.1+	2000 02 27	703	0.1−	0.0	2000 04 10	704	0.2+	0.0
1998 10 15	120	0.1−	0.2−	2000 02 27	703	0.2+	0.2−	2000 04 10	704	0.2+	0.2+
1998 10 15	120	0.2+	0.0	2000 03 08	704	0.6+	0.5+	2000 04 10	704	0.0	0.6+
1998 10 18	699	0.0	0.2+	2000 03 08	704	0.7+	0.2+	2000 04 12	608	0.2−	0.0
1998 10 18	699	0.3+	0.1−	2000 03 08	704	0.6+	0.0	2000 04 12	608	0.5+	0.7−
1998 10 18	699	0.3+	0.2+	2000 03 08	704	1.0+	0.4+	2000 04 12	608	0.3−	0.3−
1998 10 19	691	0.5−	0.2−	2000 03 12	704	0.5−	0.2−				
1998 10 19	691	0.1−	0.3−	2000 03 12	704	0.7−	0.2−				

(14616)* 1998 TK₃₀

Discovered 1998 Oct. 10 by the Lowell Observatory Near-Earth Object Search

at the Anderson Mesa Station.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	156.45521		(2000.0)		P		Q
<i>n</i>	0.26333613	ω	149.27227		+0.99464136		+0.04196820
<i>a</i>	2.4106218	Ω	208.78380		−0.06301684		+0.97061156
<i>e</i>	0.1516378	<i>i</i>	11.31636		+0.08196003		+0.23696386
<i>P</i>	3.74	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 04 22	413	0.6−	0.8−	1998 11 10	704	1.0−	0.0	2000 03 03	703	0.6−	0.1+
1982 04 22	413	1.0+	0.9−	1998 11 10	704	0.1+	1.9−	2000 03 03	703	0.2+	0.1+
1985 01 21	413	0.2−	0.4−	1998 11 11	704	0.6−	0.2−	2000 03 03	703	0.0	0.1+
1985 01 21	413	0.5+	0.7−	1998 11 11	704	0.6−	0.5−	2000 03 03	703	0.6−	0.2+
1989 03 08	413	1.8−	0.3+	1998 11 11	704	0.5−	1.3−	2000 03 04	703	0.0	0.1+
1989 03 08	413	0.4+	0.5−	1998 11 11	704	0.5−	1.2−	2000 03 04	703	0.2−	0.1+
1993 03 30	413	0.8−	0.5−	1998 11 11	704	0.4−	0.9−	2000 03 04	703	0.7−	0.6+
1993 03 30	413	0.2+	0.5−	1998 11 14	699	0.0	0.4+	2000 03 04	703	1.9+	0.7+
1998 08 31	704	0.4−	0.4+	1998 11 14	699	0.2+	0.7+	2000 03 08	704	0.2+	0.1+
1998 08 31	704	1.9+	1.2+	1998 11 14	699	0.1−	0.9+	2000 03 08	704	0.1−	0.1−
1998 08 31	704	1.0+	0.5+	1998 11 19	699	0.4+	0.2+	2000 03 08	704	0.2−	0.1−
1998 08 31	704	0.0	0.2−	1998 11 19	699	0.3+	0.0	2000 03 08	704	0.2−	0.6−
1998 08 31	704	0.3−	0.3−	1998 11 19	699	0.3+	0.1+	2000 03 14	703	0.0	0.6+
1998 10 10	699	0.1+	0.3−	1999 01 17	699	0.3−	1.2+	2000 03 14	703	0.9+	0.1−
1998 10 10	699	0.5+	0.4−	1999 01 17	699	1.3−	0.7+	2000 03 14	703	0.3−	0.1−
1998 10 10	699	0.0	0.1+	1999 01 17	699	0.9+	1.0+	2000 03 14	703	0.2+	0.1−
1998 10 14	699	0.2−	0.1+	2000 02 07	703	0.1−	0.2−	2000 04 04	699	0.2−	0.0
1998 10 14	699	0.1−	0.3+	2000 02 07	703	0.1−	0.8−	2000 04 04	699	0.3−	0.1−
1998 10 14	699	0.4+	0.4+	2000 02 07	703	0.3−	0.4−	2000 04 04	699	0.0	0.1−
1998 10 20	699	0.5+	0.4+	2000 02 07	703	1.4−	0.6−	2000 04 04	699	0.3−	0.0
1998 10 20	699	0.2+	0.7+	2000 02 08	704	0.3+	0.1−	2000 04 04	704	0.7−	0.4+
1998 10 20	699	0.3+	0.8+	2000 02 08	704	0.2+	0.3−	2000 04 04	704	1.4+	0.6+
1998 11 10	704	0.0	0.6−	2000 02 08	704	0.4+	0.8−	2000 04 04	704	0.1+	1.3+
1998 11 10	704	0.1+	0.9−	2000 02 08	704	0.9+	0.6−	2000 04 04	704	0.5+	0.4+
1998 11 10	704	0.1−	1.3−	2000 02 08	704	0.1−	0.1+	2000 04 04	704	0.9+	1.6+

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	193.11864		(2000.0)	P	Q
<i>n</i>	0.20083730	ω	244.83382	+0.97877561	+0.05944938
<i>a</i>	2.8878400	Ω	111.24847	+0.00633414	+0.94776661
<i>e</i>	0.1637624	<i>i</i>	12.14744	-0.20483697	+0.31337552
<i>P</i>	4.91	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1987 09 19	010(28.0+ 25.8+)	1998 11 18	699	0.6+	0.2-	2000 03 08	608	0.4+	0.2-
1987 09 19	010(32.1+ 28.3+)	1998 12 27	411	0.7-	0.4-	2000 03 11	703	0.7+	0.1+
1987 10 17	675 0.3-	1998 12 27	411	0.7-	0.9-	2000 03 11	703	0.1+	0.2+
1987 10 18	675 0.4-	1999 01 10	699	0.2+	1.2-	2000 03 11	703	0.6+	0.0
1994 01 05	691 0.7-	1999 01 10	699	1.0+	1.0-	2000 03 11	703	0.3-	0.1+
1994 01 05	691 0.4+	1999 01 10	699	1.1+	0.2+	2000 03 11	699	0.4-	0.2+
1994 01 05	691 0.3-	1999 01 19	704	0.6+	0.7+	2000 03 11	699	0.6-	0.0
1998 10 20	910 0.3+	1999 01 19	704	0.7+	1.1+	2000 03 11	699	0.5-	0.7+
1998 10 20	910 0.2+	1999 01 19	704	(0.6-	3.7+)	2000 03 11	699	0.4-	0.5+
1998 10 20	910 0.2+	1999 01 19	704	0.7+	0.5+	2000 03 29	704	0.6-	0.5+
1998 10 21	910 0.5-	1999 01 22	699	0.5+	0.0	2000 03 29	704	0.8-	0.5-
1998 10 21	910 0.6-	1999 01 22	699	0.8+	0.0	2000 03 29	704	0.8-	0.4-
1998 10 21	910 0.4-	1999 01 22	699	0.2+	0.4+	2000 03 29	704	0.9-	0.5-
1998 10 22	910 0.3+	1999 02 10	704	1.1+	0.1+	2000 04 03	704	0.4+	0.2+
1998 10 22	910 0.1-	1999 02 10	704	0.2-	1.0+	2000 04 03	704	0.3+	0.3+
1998 10 22	910 0.0	1999 02 10	704	1.0+	1.7+	2000 04 03	704	0.6+	0.8+
1998 10 23	910 1.8-	1999 02 10	704	0.1+	0.6+	2000 04 03	704	0.8+	0.4+
1998 10 23	910 1.6-	1999 02 10	704	0.4+	1.2+	2000 04 03	704	0.6+	0.8+
1998 10 23	910 1.8-	1999 02 13	704	0.4+	0.2-	2000 04 13	704	0.1+	1.4+
1998 10 26	910 0.7-	1999 02 13	704	0.8-	0.0	2000 04 13	704	0.1+	0.5-
1998 10 26	910 1.4-	1999 02 13	704	0.1-	1.2-	2000 04 13	704	0.0	0.2+
1998 10 26	910 1.3-	1999 02 13	704	0.6+	1.6-	2000 04 13	704	0.3+	0.3+
1998 11 18	699 0.1-	2000 03 08	608	0.0	2.0-	2000 04 13	704	0.3-	0.0
1998 11 18	699 0.5+	2000 03 08	608	0.4+	0.1+				

(14618)* 1998 UK₇

Discovered 1998 Oct. 22 by K. Korlević at Višnjan.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.14301		(2000.0)	P	Q
<i>n</i>	0.23909412	ω	10.69656	+0.55407167	-0.80897011
<i>a</i>	2.5709292	Ω	46.00504	+0.74220333	+0.37320315
<i>e</i>	0.0869151	<i>i</i>	15.84294	+0.37701300	+0.45418803
<i>P</i>	4.12	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1976 06 24	413 0.5-	1998 11 10	704	0.3-	0.3+	2000 03 15	704	0.4+	0.3+
1976 06 24	413 1.7+	1998 11 10	704	0.5+	0.4+	2000 03 15	704	0.2+	0.1-
1977 09 11	413 1.2-	1998 11 11	704	0.4+	0.4+	2000 03 15	704	0.3+	0.2-
1977 09 11	413 0.1+	1998 11 11	704	0.5+	0.6+	2000 03 15	704	0.2+	0.2+
1993 05 28	413 0.3-	1998 11 11	704	1.0+	0.0	2000 03 15	704	0.1+	0.1+
1993 05 28	413 (0.8-	1998 11 11	704	0.2+	0.8+	2000 03 28	704	0.1+	0.2+
1994 10 11	675 0.9-	1998 11 11	699	0.5+	0.1+	2000 03 28	704	0.2-	0.4-
1994 10 11	675 0.0	1998 11 11	704	0.4+	0.7+	2000 03 28	704	0.4-	0.4+
1996 03 16	675 0.9-	1998 11 11	699	0.4+	0.3+	2000 03 28	704	1.2-	0.7+
1996 03 16	675 1.2+	1998 11 11	699	0.7+	0.4+	2000 03 29	704	0.0	0.3+
1998 08 31	704 0.4+	1998 11 17	691	1.0-	0.2-	2000 03 29	704	0.1-	0.1+
1998 08 31	704 1.4-	1998 11 17	691	0.9-	0.0	2000 03 29	704	0.1+	0.2-
1998 08 31	704 0.6+	1998 11 24	699	0.0	0.1+	2000 03 29	704	0.1-	0.3+
1998 08 31	704 0.8+	1998 11 24	699	0.1-	0.1+	2000 03 29	704	0.1+	0.3+
1998 10 18	699 0.2-	1998 11 24	699	0.5+	0.7-	2000 04 04	704	0.7+	0.5-
1998 10 18	699 0.2-	1999 01 08	699	1.3-	0.2+	2000 04 04	704	0.3+	0.1+
1998 10 18	699 0.0	1999 01 08	699	1.4-	1.0+	2000 04 04	704	0.1+	0.4-
1998 10 22	120 0.1+	1999 01 08	699	0.9-	0.8+	2000 04 04	704	0.5+	0.3-
1998 10 22	120 0.2+	2000 02 03	704	0.1+	1.5-	2000 04 04	704	0.4+	0.2-
1998 10 22	120 0.0	2000 02 03	704	0.6-	0.3-	2000 04 07	608	0.7+	1.1-
1998 10 24	120 0.3+	2000 02 03	704	0.4+	0.3+	2000 04 07	608	0.0	1.4-
1998 10 24	120 0.0	2000 02 03	704	1.7-	0.5+	2000 04 07	608	0.1+	0.0
1998 10 28	120 0.0	2000 03 05	704	0.5-	0.1+	2000 04 08	704	0.0	0.6+

1998 10 28	120 0.0	2000 03 05	704	0.3-	0.3+	2000 04 08	704	0.2-	0.3+
1998 11 10	704 0.1+	2000 03 05	704	0.1+	0.3+	2000 04 08	704	0.1+	0.4-
1998 11 10	704 0.2-	2000 03 05	704	0.2-	0.5+	2000 04 08	704	0.4-	0.1+
1998 11 10	704 0.2+	2000 03 05	704	0.1+	0.6+	2000 04 08	704	0.4-	0.3+

(14619)* 1998 UF₉ = 1980 FA₄ = 1995 WS₂₄

Discovered 1998 Oct. 16 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 33051)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	350.85899		(2000.0)	P	Q
<i>n</i>	0.29439589	ω	162.36710	-0.97881649	-0.20456837
<i>a</i>	2.2379389	Ω	5.84788	+0.17655293	-0.86405799
<i>e</i>	0.0804784	<i>i</i>	4.71243	+0.10366941	-0.45995171
<i>P</i>	3.35	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1980 03 16	809 0.5-	2000 02 04	704	0.0	0.1-	2000 03 08	704	0.7+	1.0+
1980 03 16	809 0.1-	2000 02 04	704	0.1+	0.3-	2000 03 08	704	0.9+	0.3+
1980 03 16	809 0.1-	2000 02 04	704	0.2-	0.1+	2000 03 08	704	0.6-	0.3+
1980 03 16	809 0.3+	2000 02 04	704	0.6+	0.0	2000 03 08	704	0.1+	0.4-
1980 03 17	809 0.2+	2000 02 04	704	0.1-	0.1+	2000 03 08	704	0.2-	0.4-
1980 03 17	809 0.5-	2000 02 11	704	0.1+	0.2-	2000 03 11	699	0.2-	0.1+
1980 03 17	809 0.0	2000 02 11	704	0.1+	0.1-	2000 03 11	699	0.1+	0.2+
1980 03 17	809 0.6-	2000 02 11	704	0.2+	0.4-	2000 03 11	699	0.4-	0.1-
1995 11 18	691 0.2+	2000 02 11	704	0.5+	0.2+	2000 03 11	699	0.2-	0.2+
1995 11 18	691 0.3+	2000 02 11	704	0.2-	0.5+	2000 03 12	704	0.1-	0.4+
1995 11 18	691 0.4+	2000 02 25	703	0.1-	0.1+	2000 03 12	704	0.8+	0.2+
1995 11 24	691 0.6-	2000 02 25	703	0.3+	0.4-	2000 03 12	704	0.1-	0.4+
1995 11 24	691 0.2-	2000 02 25	703	0.4-	0.2+	2000 03 12	704	0.4+	0.2+
1995 11 24	691 0.2-	2000 02 25	703	0.1+	0.0	2000 04 03	699	0.1+	0.1+
1998 10 16	691 0.3+	2000 03 05	704	0.1+	0.3-	2000 04 03	699	0.2-	0.1+
1998 10 16	691 0.2+	2000 03 05	704	0.1+	0.0	2000 04 03	704	0.3+	0.3+
1998 10 16	691 0.0	2000 03 05	704	0.2-	0.4-	2000 04 03	699	0.8-	0.5-
1998 10 22	691 0.4+	2000 03 05	704	0.2+	0.0	2000 04 03	704	0.0	0.3+
1998 10 22	691 0.6+	2000 03 05	704	0.4+	0.5-	2000 04 03	699	0.6-	0.5-
1998 10 22	691 0.2+	2000 03 06	704	0.1-	0.2-	2000 04 03	704	0.8+	0.1+
1998 10 28	691 0.3-	2000 03 06	704	0.2-	0.2+	2000 04 03	704	0.5+	0.1-
1998 10 28	691 0.5-	2000 03 06	704	0.3-	0.3+	2000 04 03	704	0.0	0.6+
1998 10 28	691 0.4-	2000 03 06	704	1.0-	0.4+				

(14620)* 1998 UP₁₅ = 1977 EU₄ = 1992 AY₆ = 1992 CR₄ = 1992 CE₆

Discovered 1998 Oct. 23 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33310)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	23.15498		(2000.0)	P	Q
<i>n</i>	0.25812789	ω	74.65568	-0.93393568	-0.35327991
<i>a</i>	2.4429398	Ω	84.63217	+0.30341241	-0.86396771
<i>e</i>	0.0982781	<i>i</i>	3.13117	+0.18895781	-0.35882183
<i>P</i>	3.82	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1977 03 15	381	0.5-	1.2-	1998 11 11	704	0.2+	0.9-	1998 12 15	120	0.9+	0.0
1977 03 15	381	0.6-	0.7-	1998 11 11	699	0.3-	0.2-	2000 02 08	704	0.1+	0.1+
1990 09 28	675	0.1+	0.7+	1998 11 18	704	1.2+	0.7-	2000 02 08	704	0.4+	1.0+
1992 01 14	877	0.9+	0.0	1998 11 18	704	1.7+	1.5-	2000 02 08	704	1.1+	0.5+
1992 01 14	877	(0.4-	3.2-)	1998 11 18	704	0.3+	1.5-	2000 03 09	704	1.9+	0.3+
1992 02 01	372	(4.0-	2.8-)	1998 11 18	704	0.7+	0.9-	2000 03 09	704	1.3+	1.2+
1992 02 01	372	0.6-	0.6-	1998 11 24	699	1.0-	0.3-	2000 03 09	704	0.0	0.6-
1992 02 08	399	(8.5-	3.5+)	1998 11 24	699	0.0	0.3-	2000 03 09	704	0.7-	0.9+
1992 02 08	399	(5.6-	1.0+)	1998 11 24	699	0.2-	1.0+	2000 04 04	699	0.3-	0.2+
1998 10 18	699	0.5+	0.3+	1998 11 24	120	1.2-	0.2+	2000 04 04	699	0.5-	0.0
1998 10 18	699	0.4+	0.8+	1998 11 24	120	0.5-	0.1-	2000 04 04	699	0.4-	0.5+
1998 10 18	699	1.7-	1.2+	1998 11 24	120	(2.5-	1.1+)	2000 04 04	699	0.5-	0.1+
1998 10 23	120	0.8-	0.6+	1998 11 24	120	0.2-	0.1-	2000 04 07	704	0.3-	0.0
1998 10 23	120	0.3+	1.2+	1998 11 26	120	1.6-	1.2-	2000 04 07	704	0.2-	0.6+

2000 APR. 18

M.P.C. 39883

1998 10 23	120	0.3+	0.5+	1998 11 26	120	0.9−	1.1+	2000 04 07	704	0.1−	0.0
1998 10 26	120	0.2−	0.4+	1998 11 26	120	1.1−	1.4+	2000 04 07	704	0.0	0.2+
1998 10 26	120	0.8+	1.1+	1998 12 08	704	0.6+	0.0	2000 04 07	704	0.1+	0.0
1998 10 29	120	0.1+	0.8+	1998 12 08	704	0.3−	1.0−	2000 04 08	704	0.0	0.5−
1998 10 29	120	0.0	0.3+	1998 12 08	704	1.0+	0.4+	2000 04 08	704	0.0	0.6+
1998 11 11	699	0.1+	0.5+	1998 12 08	704	0.7−	0.6−	2000 04 08	704	0.4+	0.3+
1998 11 11	704	0.3+	0.2+	1998 12 14	120	0.3+	0.5−	2000 04 08	704	0.1+	0.2+
1998 11 11	699	0.5+	0.6+	1998 12 14	120	0.8+	1.5−	2000 04 08	704	0.3+	0.2−
1998 11 11	704	1.1−	0.6−	1998 12 15	120	0.2+	0.9+				

(14621)* 1998 UF₁₈ = 1983 QA₁

Discovered 1998 Oct. 22 by J. Broughton at Reedy Creek.

Id. G. V. Williams (*MPC* 33051)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	56.77555	(2000.0)	P	Q	
<i>n</i>	0.27345033	ω	328.76470	−0.68718378	−0.72558655
<i>a</i>	2.3508076	Ω	164.54257	+0.69134703	−0.66840371
<i>e</i>	0.1038836	<i>i</i>	7.78274	+0.22319887	−0.16358681
<i>P</i>	3.60	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1983 08 30	675	0.4−	0.1+	1998 11 10	428	0.3+	0.3−	2000 03 03	703	0.4−	0.5−
1983 08 31	675	0.2−	1.3+	1998 11 10	428	0.1+	0.6−	2000 04 07	704	0.2−	0.7+
1983 09 01	675	0.5+	0.2−	1998 11 13	704	0.2−	0.4+	2000 04 07	704	0.1−	1.0+
1983 09 02	675	0.1+	0.2−	1998 11 13	704	0.0	0.5+	2000 04 07	704	0.6+	0.6+
1983 09 02	675	0.5−	0.6+	1998 11 13	704	0.4−	0.5−	2000 04 07	704	0.1−	1.2+
1996 04 18	566	0.1−	0.2−	1998 11 13	704	0.7−	1.0+	2000 04 07	704	0.1+	0.4+
1996 04 18	566	0.4+	0.1−	1998 11 13	704	1.1−	0.3+	2000 04 12	704	0.1−	0.7+
1996 04 18	566	0.2+	0.1+	1998 11 14	699	0.6+	1.4+	2000 04 12	704	1.3−	0.4+
1998 10 22	428	1.3+	1.3−	1998 11 14	699	0.3−	1.2+	2000 04 12	704	0.2−	1.2+
1998 10 27	428	0.0	0.4−	1998 11 14	699	(2.2+ 0.3+)		2000 04 12	704	0.6−	0.6+
1998 10 27	428	0.3−	0.8+	1998 11 26	428	0.6+	0.5−	2000 04 12	704	0.8−	0.6+
1998 10 27	428	1.0−	0.2+	1998 11 26	428	0.7+	0.4−	2000 04 14	704	1.3+	0.4−
1998 10 28	428	1.0+	1.0+	1998 12 19	428	0.5−	0.8−	2000 04 14	704	(3.1+ 0.9−)	
1998 10 28	428	0.2−	0.3+	1998 12 22	428	0.8−	0.3+	2000 04 14	704	0.4+	0.9+
1998 10 29	699	0.7+	1.8+	2000 03 03	703	1.8+	0.1+	2000 04 14	704	1.3+	0.7+
1998 10 29	699	0.5−	0.9+	2000 03 03	703	0.1+	0.6−				
1998 10 29	699	0.7−	1.4+	2000 03 03	703	0.2+	0.1−				

(14622)* 1998 UN₁₈ = 1991 PJ₂₅

Discovered 1998 Oct. 28 by the Catalina Sky Survey.

Id. A. Gnädig (*MPC* 39269), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	72.67837	(2000.0)	P	Q	
<i>n</i>	0.17423301	ω	309.61821	+0.06359528	−0.94071369
<i>a</i>	3.1747955	Ω	133.16401	+0.99678981	+0.04360355
<i>e</i>	0.1548750	<i>i</i>	27.18059	+0.04863851	+0.33638739
<i>P</i>	5.66	<i>H</i>	12.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1981 12 03	413	1.6−	0.7+	1998 12 19	704	1.0−	0.7−	2000 02 03	704	0.5+	0.2−
1981 12 03	413	1.5+	0.3−	1998 12 19	704	(2.4+ 1.6−)		2000 02 03	704	0.4+	0.0
1985 08 16	413	0.5+	1.1+	1998 12 19	704	0.8−	1.0+	2000 02 03	704	0.5+	0.4−
1985 08 16	413	(2.9+ 3.4+)		1998 12 19	704	0.3−	0.0	2000 02 03	704	1.3+	0.8−
1990 06 18	675	1.3+	1.0+	1998 12 19	704	0.1−	0.0	2000 02 03	704	0.5−	0.4−
1990 06 18	675	0.7−	0.8−	1998 12 20	703	0.8−	0.3−	2000 03 04	704	0.8−	0.1+
1991 08 03	809	0.4−	0.2+	1998 12 20	703	0.1−	0.1+	2000 03 04	704	0.8−	0.2−
1991 08 03	809	0.8−	0.7+	1998 12 20	703	1.1+	0.5−	2000 03 04	704	0.6−	0.1−
1991 08 03	809	0.8+	1.9+	1999 01 14	699	0.1−	0.2+	2000 03 04	704	0.9−	0.1+
1998 10 28	703	0.7+	0.5+	1999 01 14	699	0.5+	0.3+	2000 03 15	704	1.0+	0.2+
1998 10 28	703	0.7+	0.8+	1999 01 14	699	0.2+	0.4−	2000 03 15	704	0.8+	0.8+
1998 10 28	703	0.0	0.5+	1999 03 10	704	0.1+	1.1−	2000 03 15	704	(0.1− 2.2+)	
1998 10 29	703	(2.5+ 1.1+)		1999 03 10	704	0.5−	0.4+	2000 03 15	704	0.4+	1.5+
1998 10 29	703	(1.5+ 2.3+)		1999 03 10	704	(0.8+ 2.5−)		2000 03 15	704	0.7+	0.8+
1998 11 16	703	0.4+	0.9+	1999 03 10	704	(2.2+ 1.0−)		2000 04 02	704	0.7−	0.3−

1998 11 16	703	(2.3− 0.0)		2000 01 07	704	0.2+	0.1+	2000 04 02	704	0.0	0.4+
1998 11 16	703	0.4+	0.3+	2000 01 07	704	0.1+	0.1−	2000 04 02	704	0.3−	0.9+
1998 11 17	703	0.4−	0.2+	2000 01 07	704	0.3+	0.4+	2000 04 02	704	0.8−	0.1−
1998 11 17	703	0.3−	0.3+	2000 01 07	704	0.3+	1.7+	2000 04 02	704	0.3−	0.1−
1998 11 17	703	0.4−	0.1−	2000 01 07	704	0.5−	0.0				

(14623)* 1998 UE₂₄ = 1997 LT₁₅

Discovered 1998 Oct. 17 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 33314)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	132.20699	(2000.0)	P	Q	
<i>n</i>	0.27622361	ω	313.09330	+0.83517281	−0.53407353
<i>a</i>	2.3350464	Ω	79.59661	+0.53539877	+0.73485370
<i>e</i>	0.0938765	<i>i</i>	7.67430	+0.12583536	+0.41803769
<i>P</i>	3.57	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 11 03	691	0.2+	0.7−	1998 10 20	699	0.3+	0.4−	2000 03 08	704	0.1+	0.2+
1991 11 03	691	0.1+	0.3−	1998 10 20	699	0.1−	1.0+	2000 03 08	704	0.0	0.1−
1991 11 03	691	0.3+	0.3−	1998 10 20	699	0.2−	0.4+	2000 03 08	704	0.4+	0.4+
1993 06 24	691	0.4−	0.1+	1998 11 10	704	1.1−	0.6−	2000 03 08	704	1.2+	0.9+
1993 06 24	691	0.7−	0.0	1998 11 10	704	1.6−	1.0+	2000 03 12	704	0.1+	0.0
1993 06 24	691	1.1+	0.1−	1998 11 10	704	0.7−	0.5+	2000 03 12	704	0.3+	0.5+
1997 06 08	809	0.9+	1.2+	1998 11 10	704	1.1−	0.4+	2000 03 12	704	0.9+	0.1+
1997 06 08	809	0.8+	0.8+	1998 11 11	704	(0.4+ 3.0+)		2000 03 12	704	1.1+	0.6+
1997 06 08	809	1.5+	1.0+	1998 11 11	704	0.0	0.2+	2000 03 28	704	0.4+	0.3−
1997 06 09	809	0.2−	1.6+	1998 11 11	704	1.1−	1.4+	2000 03 28	704	0.0	0.4−
1997 06 09	809	1.1−	1.0+	1998 11 11	704	1.8−	1.5+	2000 03 28	704	0.9−	0.0
1997 06 09	809	0.2−	0.9+	1998 11 14	699	0.3+	1.4+	2000 04 03	704	0.3−	1.0+
1998 10 17	699	0.3+	1.2+	1998 11 14	699	0.2+	0.3+	2000 04 03	704	0.3+	0.0
1998 10 17	699	0.9+	0.4+	1998 11 14	699	0.3−	1.0+	2000 04 03	704	0.8−	1.1+
1998 10 17	699	0.9+	0.6+	2000 03 08	704	0.5+	0.5+	2000 04 03	704	0.1−	1.0+

(14624)* 1998 UO₂₄ = 1989 VD₆ = 1996 LC₅

Discovered 1998 Oct. 18 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. S. Nakano (*MPC* 33314)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Nakano			
<i>M</i>	89.49208	(2000.0)	P	Q	
<i>n</i>	0.22205445	ω	227.97706	+0.32671185	−0.94409124
<i>a</i>	2.7008247	Ω	203.06607	+0.89703789	+0.32446806
<i>e</i>	0.1243063	<i>i</i>	6.47336	+0.29762795	+0.05841403
<i>P</i>	4.44	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 11 03	675	0.4+	0.9−	1998 10 20	699	0.6−	0.5+	1998 12 11	699	0.2−	0.2−
1989 11 03	675	0.5+	0.0	1998 10 20	699	1.0−	0.1−	1998 12 11	699	0.8+	0.7−
1989 11 04	675	0.1−	1.0−	1998 11 11	704	0.9+	0.4−	1998 12 11	699	0.3+	0.3+
1989 11 04	675	0.4−	0.5−	1998 11 11	704	1.0+	1.4+	2000 02 08	704	0.3−	1.2−
1996 04 17	809	(2.5− 0.2−)		1998 11 11	704	0.5−	0.4−	2000 02 08	704	0.1−	0.3+
1996 04 17	809	(3.4− 0.2−)		1998 11 18	704	0.2+	0.1+	2000 02 08	704	1.8−	0.2−
1996 04 17	809	(2.9− 0.2−)		1998 11 18	704	0.3−	0.2−	2000 02 08	704	0.4−	0.4−
1996 06 08	809	0.7+	2.0−	1998 11 18	704	0.9+	1.1−	2000 03 13	704	0.4−	0.2−
1996 06 08	809	1.7−	1.7−	1998 11 18	704	0.4+	2.0−	2000 03 13	704	0.8−	0.4−
1996 06 08	809	0.7−	1.4−	1998 11 18	704	(3.1− 3.0−)		2000 03 13	704	0.1+	0.3+
1996 06 10	809	0.6+	2.0−	1998 11 18	399	1.3+	1.8+	2000 03 13	704	0.2−	0.2+
1996 06 10	809	0.5−	1.7−	1998 11 18	399	0.5−	0.5+	2000 04 08	704	0.7+	0.2+
1996 06 10	809	(0.6− 2.5−)		1998 11 19	399	0.0	0.6−	2000 04 08	704	0.1+	0.2−
1998 10 18	699	0.3−	0.5−	1998 11 19	399	(2.3− 0.1+)		2000 04 08	704	1.3+	1.0+
1998 10 18	699	1.1−	1.1−	1998 11 24	699	0.2+	0.0	2000 04 08	704	1.2+	0.9+
1998 10 18	699	0.6+	1.1−	1998 11 24	699	0.2+	0.6−				
1998 10 20	699	1.5−	0.5−	1998 11 24	699	0.4−	0.5+				

(14625)* 1998 UH₃₁ = 1998 UY₃₁ = 1951 XC = 1985 UK₄

Discovered 1998 Oct. 18 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. S. Nakano (*MPC* 33513)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano	
<i>M</i>	122.97025	(2000.0)		P	Q
<i>n</i>	0.23138871	ω	347.75038	+0.63853483	−0.73792009
<i>a</i>	2.6276929	Ω	62.13230	+0.72530730	+0.48209701
<i>e</i>	0.1390445	<i>i</i>	14.31050	+0.25729866	+0.47228849
<i>P</i>	4.26	<i>H</i>	12.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1951 12 03	760	(1.2+ 2.5−)	1998 12 14	704	0.0	0.8+	2000 02 14	106	0.4+	0.1+
1951 12 03	760	1.2+ 1.9−	1998 12 14	704	0.4−	0.3+	2000 02 14	106	0.0	0.0
1985 10 21	095	0.5+ 1.8−	1998 12 14	704	(2.4− 1.4+)		2000 03 11	703	0.0	0.4+
1985 11 08	095(35.1+ 9.3−)		1998 12 14	704	0.2−	1.3+	2000 03 11	703	0.1−	1.2+
1985 11 11	095	(1.5− 4.0+)	1998 12 17	704	0.9−	1.0+	2000 03 11	703	1.6+	0.1−
1996 06 15	566	0.6+ 0.9−	1998 12 17	704	0.2+	0.4−	2000 03 11	703	0.2+	0.0
1996 06 15	566	0.5+ 0.8−	1998 12 17	704	0.7+	1.0−	2000 03 11	699	0.2+	0.3+
1996 06 15	566	0.0 0.8−	1998 12 17	704	0.9+	1.3−	2000 03 11	699	0.0	0.4+
1998 10 18	327	(1.0+ 3.1+)	1998 12 17	704	0.5−	0.9−	2000 03 11	699	0.2+	0.2+
1998 10 18	327	0.8+ 1.7+	1999 01 08	704	(3.1+ 1.4−)		2000 03 11	699	0.6−	0.1+
1998 10 18	327	0.2+ 0.4+	1999 01 08	704	1.6+	1.0+	2000 03 29	704	0.1−	0.1+
1998 10 23	327	0.2− 0.3+	1999 01 08	704	0.8−	0.5−	2000 03 29	704	0.2−	0.0
1998 10 23	327	0.3− 0.3+	1999 01 08	704	0.7+	0.3−	2000 03 29	704	0.3−	0.1+
1998 10 23	327	0.2− 0.3+	1999 01 08	704	(2.8− 1.5+)		2000 03 29	704	0.3−	0.4+
1998 10 26	327	0.1− 0.3+	1999 02 26	104	0.7+	1.1−	2000 03 29	704	0.3−	0.4+
1998 10 26	327	0.1− 0.3+	1999 02 26	104	0.8+	0.9−	2000 04 03	704	0.3−	0.1−
1998 10 26	327	0.0 0.2+	1999 02 26	104	0.9+	1.1−	2000 04 03	704	0.5−	0.1−
1998 10 29	327	0.0 0.1+	1999 11 09	703	0.3−	0.2+	2000 04 03	704	0.3−	0.2−
1998 10 29	327	1.1− 0.0	1999 11 09	703	0.5+	0.2+	2000 04 03	704	0.2−	0.2+
1998 10 29	327	1.0− 0.4−	1999 11 09	703	1.7+	0.2−	2000 04 03	704	0.0	0.1+
1998 11 01	327	1.4− 1.2−	1999 11 09	703	0.7+	0.2−	2000 04 08	704	0.5−	0.2−
1998 11 01	327	0.0 0.0	2000 01 08	704	0.1−	0.4−	2000 04 08	704	0.3−	0.3−
1998 11 01	327	0.0 0.0	2000 01 08	704	0.4−	0.2−	2000 04 08	704	0.1−	0.2−
1998 12 11	411	0.1+ 1.2+	2000 01 08	704	0.2−	0.1−	2000 04 08	704	0.1−	0.3−
1998 12 11	411	0.6− 0.9+	2000 01 08	704	0.1+	0.2−	2000 04 08	704	0.6−	0.2−
1998 12 12	411	0.5+ 0.3+	2000 01 08	704	0.3−	0.1−				
1998 12 12	411	0.2+ 0.3+	2000 02 14	106	0.3+	0.1−				

(14626)* 1998 UP₃₉ = 1981 XB₂ = 1996 KB₅ = 1998 VL₈

Discovered 1998 Oct. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33514)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams	
<i>M</i>	77.00384	(2000.0)		P	Q
<i>n</i>	0.22931498	ω	232.38097	+0.03135007	−0.99205084
<i>a</i>	2.6435109	Ω	216.39681	+0.96951416	+0.05982857
<i>e</i>	0.2644144	<i>i</i>	11.85203	+0.24302154	−0.11070536
<i>P</i>	4.30	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1981 11 25	095	(4.7+ 0.2−)	1998 10 29	704	0.2−	0.0	1999 01 11	704	(1.7− 2.8+)
1981 12 02	511	0.6− 1.3−	1998 10 29	327	0.5−	0.0	1999 02 04	704	0.5+ 1.9+
1981 12 03	511	0.2− 0.1−	1998 10 29	327	0.8−	0.1+	1999 02 04	704	0.8− 0.7+
1981 12 03	511	0.8+ 1.0+	1998 10 29	327	0.8−	0.1+	1999 02 04	704	0.6− 0.7−
1996 05 12	691	1.3− 0.5+	1998 10 29	327	0.6−	0.1+	1999 02 04	704	0.1− 0.3−
1996 05 12	691	1.2− 0.5+	1998 10 29	327	0.7−	0.0	1999 02 04	704	0.3− 0.3+
1996 05 12	691	1.4− 0.6+	1998 10 29	327	0.4−	0.2+	2000 03 14	704	0.1+ 0.2−
1996 05 22	809	0.7+ 0.1+	1998 11 10	704	0.4+	0.0	2000 03 14	704	1.0+ 0.1−
1996 05 22	809	0.2+ 0.6+	1998 11 10	704	0.3−	0.4−	2000 03 14	704	0.4− 0.6−
1996 05 22	809	0.6+ 0.9−	1998 11 10	704	0.7−	1.8−	2000 03 14	704	0.5+ 0.9+
1996 05 24	809	1.4+ 0.2−	1998 11 10	704	0.0	0.5−	2000 03 14	704	0.1− 0.1+
1996 05 24	809	0.2+ 0.6−	1998 11 11	704	0.1−	0.2+	2000 03 30	704	0.4+ 1.1+

1996 05 24	809	0.5+	0.0	1998 11 11	704	0.7+	0.2−	2000 03 30	704	0.3+	1.4+
1998 10 11	699	0.1+	1.4+	1998 11 11	704	0.7+	0.5−	2000 03 30	704	0.2+	0.1+
1998 10 11	699	0.2+	1.5+	1998 11 11	704	0.2+	1.5−	2000 03 30	704	0.1+	0.4+
1998 10 11	699	0.2+	1.3+	1998 11 14	699	0.7+	0.6+	2000 04 07	704	0.5−	1.1+
1998 10 21	910	0.7+	1.1+	1998 11 14	699	0.1+	0.1+	2000 04 07	704	0.7−	0.0
1998 10 21	910	0.6+	1.2+	1998 11 14	699	0.5+	0.6+	2000 04 07	704	(0.7+	2.1+)
1998 10 22	910	0.6+	1.2+	1998 11 23	699	0.8+	1.2+	2000 04 07	704	0.1−	0.6+
1998 10 28	704	0.5+	0.4−	1998 11 23	699	0.6+	1.2+	2000 04 08	704	0.7−	0.0
1998 10 28	704	0.1+	0.6−	1998 11 23	699	(2.0+	1.3+)	2000 04 08	704	0.2+	0.1−
1998 10 28	704	0.2−	0.2+	1998 12 11	699	0.3−	0.5−	2000 04 08	704	0.8+	0.7+
1998 10 28	704	0.6−	0.0	1998 12 11	699	0.0	0.1−	2000 04 11	608	0.0	0.1+
1998 10 29	704	0.5−	0.1+	1998 12 11	699	0.2−	0.9−	2000 04 11	608	0.2+	0.0
1998 10 29	704	0.1+	0.2−	1999 01 11	704	0.9−	1.0−	2000 04 11	608	0.1+	0.0
1998 10 29	704	0.1+	0.0	1999 01 11	704	(2.7−	0.2−)				
1998 10 29	704	0.5−	0.1+	1999 01 11	704	0.1−	0.4+				

(14627)* 1998 VA

Discovered 1998 Nov. 7 by R. A. Kowalski at Zephyrhills.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams	
<i>M</i>	86.67543	(2000.0)		P	Q
<i>n</i>	0.23510635	ω	44.47569	+0.08999984	−0.97519001
<i>a</i>	2.5999190	Ω	41.63057	+0.80771403	−0.04733590
<i>e</i>	0.1493616	<i>i</i>	17.72460	+0.58266463	+0.21624928
<i>P</i>	4.19	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1976 06 04	413	0.1+	0.9-	1998 11 10	704	0.2+	1.7-	1999 01 15	699	0.2-	0.0
1976 06 04	413	0.2-	0.6-	1998 11 10	704	0.1+	0.5-	1999 02 06	704	0.0	1.8+
1993 08 13	413	(2.8-	0.3+)	1998 11 10	704	0.3+	1.5-	1999 02 06	704	1.5-	0.7+
1993 08 13	413	0.6+	1.1+	1998 11 11	704	0.2+	0.1-	1999 02 06	704	(2.5+	0.2-)
1996 03 25	413	0.3+	0.7-	1998 11 11	704	0.8+	1.3-	1999 02 06	704	(0.3+	2.2-)
1998 08 31	704	0.4-	0.4-	1998 11 11	704	0.7+	1.2-	2000 03 02	703	0.9-	0.7-
1998 08 31	704	0.2+	0.0	1998 11 13	761	0.6-	0.2-	2000 03 02	703	0.4-	0.4-
1998 08 31	704	1.0-	0.2-	1998 11 13	761	0.7+	0.2+	2000 03 02	703	0.1+	0.3+
1998 08 31	704	0.3-	0.4-	1998 11 13	761	0.2-	0.3-	2000 03 02	703	0.4+	0.1+
1998 11 07	761	0.2-	0.2+	1998 11 13	750	0.2-	0.3-	2000 03 08	704	0.1+	0.3-
1998 11 07	761	(2.1+	1.1-)	1998 11 13	750	0.2-	0.4-	2000 03 08	704	0.3-	1.5-
1998 11 07	761	0.3-	0.7-	1998 11 13	750	0.5+	0.7-	2000 03 08	704	0.4-	1.9-
1998 11 07	046	0.3-	0.3-	1998 11 14	734	0.5+	0.1+	2000 04 04	699	0.2-	0.1-
1998 11 07	046	0.1-	0.3-	1998 11 14	734	0.3+	0.1+	2000 04 04	699	0.3-	0.5+
1998 11 07	046	0.2-	0.5-	1998 11 14	734	0.3+	0.2+	2000 04 04	704	0.1+	0.0
1998 11 07	046	0.0	0.2-	1998 11 24	750	0.9-	1.2+	2000 04 04	704	0.2-	0.2+
1998 11 07	046	0.1-	0.1-	1998 11 24	750	0.0	1.3+	2000 04 04	699	0.5-	0.1+
1998 11 07	046	0.1-	0.1-	1998 11 24	750	0.2+	0.2-	2000 04 04	704	0.2+	0.1+
1998 11 07	046	0.4-	0.2-	1998 11 26	734	0.1-	0.4+	2000 04 04	699	0.5-	0.0
1998 11 07	046	0.1+	0.3-	1998 11 26	734	0.0	0.3+	2000 04 04	704	0.1+	0.6+
1998 11 07	046	0.1+	0.3-	1998 11 26	734	0.5+	0.4+	2000 04 04	704	0.0	0.1+
1998 11 07	046	0.0	0.2-	1998 11 27	761	1.5+	0.2+	2000 04 08	704	0.1-	0.3+
1998 11 07	046	0.1-	0.2-	1998 11 27	761	0.8+	0.6+	2000 04 08	704	0.5-	0.4+
1998 11 08	761	1.2+	0.3+	1998 11 28	761	0.1+	0.0	2000 04 08	704	0.2-	0.4-
1998 11 08	761	(3.8+	1.7-)	1998 11 28	761	0.3+	0.2+	2000 04 08	704	0.1+	0.0
1998 11 08	761	1.0-	0.5+	1998 12 22	761	0.6-	0.5+	2000 04 08	704	0.2-	0.0
1998 11 08	046	0.1+	0.1-	1998 12 22	761	0.7-	0.6+	2000 04 12	608	(0.9+	2.6-)
1998 11 08	046	0.5-	0.2+	1998 12 22	761	0.1-	0.4+	2000 04 12	608	(1.4+	2.9-)
1998 11 08	046	0.4+	0.4+	1998 12 24	699	0.2+	0.3+	2000 04 12	608	(0.7+	3.8-)
1998 11 08	046	0.2-	0.2-	1998 12 24	699	0.1+	0.4+	2000 04 13	704	0.6+	0.4+
1998 11 08	046	0.1-	0.1-	1998 12 24	699	0.2+	0.2+	2000 04 13	704	0.2-	0.2+
1998 11 09	761	0.0	0.2+	1999 01 06	761	1.1+	0.5+	2000 04 13	704	0.5-	0.2+
1998 11 09	761	0.1-	0.1-	1999 01 06	761	0.0	0.3+	2000 04 13	704	0.8+	0.5-
1998 11 09	761	0.5-	0.1-	1999 01 06	761	1.8-	0.0	2000 04 13	704	0.0	0.2+
1998 11 10	704	1.8+	0.0	1999 01 15	699	0.7-	0.4-				
1998 11 10	704	0.4-	0.9-	1999 01 15	699	0.8-	0.2-				

2000 APR. 18

M.P.C. 39885

Id. G. V. Williams (*MPC* 34537, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 216.49901		(2000.0)		P		Q	
<i>n</i>	0.30718917	ω	70.92466	+0.83343260	+0.54818372		
<i>a</i>	2.1753649	Ω	255.77634	−0.53025599	+0.75766581		
<i>e</i>	0.0611009	<i>i</i>	4.13467	−0.15562353	+0.35417104		
<i>P</i>	3.21	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1981 05 08	675	1.9−	0.6−	1998 11 11	704	0.1+	0.8−
1981 05 09	675	0.9+	0.2−	1998 11 11	704	0.1−	0.1−
1985 09 19	095	1.2+	0.3−	1998 11 11	704	1.0+	0.7−
1995 11 30	327	0.5−	0.0	1998 11 15	699	1.0−	1.1+
1995 11 30	327	0.1−	0.1−	1998 11 15	699	0.1−	0.7+
1995 11 30	327	0.4+	0.3+	1998 11 15	699	0.6−	0.5+
1998 08 31	704	1.8−	0.9−	1998 11 25	691	0.1−	0.2+
1998 08 31	704	0.3+	1.2+	1998 11 25	691	0.1+	0.1+
1998 08 31	704	0.8+	0.9−	1998 11 25	691	0.2+	0.0
1998 08 31	704	0.2−	1.2+	2000 03 03	703	0.1+	0.2+
1998 08 31	704	(4.1−	0.5+)	2000 03 03	703	0.3−	0.1+
1998 10 19	699	0.5−	0.7+	2000 03 03	703	0.1+	0.3+
1998 10 19	699	0.8−	0.3+	2000 03 03	703	0.9+	0.2+
1998 10 19	699	0.0	1.3+	2000 03 09	704	0.1+	0.3+
1998 11 10	704	(2.1+	0.3−)	2000 03 09	704	0.3+	0.0
1998 11 10	704	0.4+	1.1−	2000 03 09	704	0.2−	0.2−
1998 11 10	704	0.0	1.1−	2000 03 12	699	0.0	0.2+
1998 11 10	704	1.0+	0.8−	2000 03 12	699	0.2+	0.2+
1998 11 10	704	1.4+	1.1−	2000 03 12	699	0.2−	0.5+
1998 11 11	704	0.7−	0.3+	2000 03 12	699	0.0	0.3+

(14629)* 1998 VT₃₀ = 1982 YG₄ = 1988 QE₁ = 1993 BD₁₄

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 33517)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 177.17206		(2000.0)		P		Q	
<i>n</i>	0.30506725	ω	92.72732	+0.97995802	−0.18372409		
<i>a</i>	2.1854405	Ω	277.86775	+0.13743331	+0.90332926		
<i>e</i>	0.1697513	<i>i</i>	4.45772	+0.14420250	+0.38761025		
<i>P</i>	3.23	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1982 12 23	095	0.2+	0.5−	1998 11 11	704	0.3−	0.1−
1988 08 18	511	0.2+	0.6+	1998 11 18	704	0.7+	0.4+
1988 08 18	511	1.2−	1.7+	1998 11 18	704	0.5−	1.2+
1988 08 18	511	(3.0+	1.5+)	1998 11 18	704	0.3−	1.2+
1993 01 23	809	(3.1−	0.5−)	1998 11 18	704	(0.8+	2.3+)
1993 01 28	809	(3.8−	1.2−)	1998 11 18	704	(1.2+	2.7+)
1993 01 28	809	(2.8−	1.9−)	1998 11 21	704	0.1−	0.8+
1993 04 25	691	0.6−	0.9−	1998 11 21	704	0.5−	0.6+
1993 04 25	691	0.9−	0.4−	1998 11 21	704	1.4−	1.1−
1993 04 25	691	1.2−	0.8−	1998 11 21	704	0.3+	0.7+
1998 08 31	704	0.3−	0.5+	1998 11 21	704	0.6+	0.4+
1998 08 31	704	1.0+	1.0−	1998 11 24	704	0.7+	0.2+
1998 08 31	704	1.1−	0.2−	1998 11 24	704	0.6+	0.3+
1998 08 31	704	0.6+	0.5+	1998 11 24	704	0.5−	1.2+
1998 08 31	704	1.6−	0.7−	1998 11 24	704	0.6−	1.1+
1998 11 10	704	0.2−	0.2−	1998 11 24	704	(0.4−	2.4+)
1998 11 10	704	0.8−	0.8−	1998 12 11	699	0.8+	0.4+
1998 11 10	704	0.4−	1.3−	1998 12 11	699	0.6+	0.1+
1998 11 10	704	0.1+	1.3−	1998 12 11	699	0.0	0.3+
1998 11 10	704	0.3+	2.0−	1998 12 14	704	0.2−	0.4−
1998 11 11	704	0.3+	0.1+	1998 12 14	704	0.0	0.4+
1998 11 11	704	0.7+	0.3−	1998 12 14	704	(2.4+	0.3−)
1998 11 11	704	0.2+	0.4+	1998 12 14	704	(0.4+	3.8−)

(14630)* 1998 VQ₃₁

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 125.26505		(2000.0)		P		Q	
<i>n</i>	0.22730891	ω	154.04954	+0.78361935	−0.58914716		
<i>a</i>	2.6590413	Ω	243.46131	+0.52472510	+0.79752291		
<i>e</i>	0.1639353	<i>i</i>	12.72712	+0.33257223	+0.12985699		
<i>P</i>	4.34	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1983 05 12	413	0.0	0.2−	1998 12 22	704	0.0	0.7−	2000 01 28	704	0.1+	0.4+
1983 05 12	413	0.1+	1.6−	1998 12 22	704	(0.6+	2.6−)	2000 01 28	704	0.8+	0.1+
1988 07 12	413	1.6−	0.3+	1998 12 25	910	0.8+	0.1+	2000 01 28	704	0.0	0.1+
1988 07 12	413	0.5+	0.1+	1998 12 25	910	0.9+	0.1+	2000 01 28	704	0.1+	0.1+
1991 04 09	413	0.8+	0.4+	1998 12 26	910	0.8+	0.1+	2000 01 28	704	0.1−	1.2−
1991 04 09	413	0.3−	0.3−	1999 01 07	699	0.4−	0.3−	2000 03 12	699	0.6−	0.2+
1998 08 31	704	0.2+	0.0	1999 01 07	699	0.3−	0.4−	2000 03 12	699	0.2−	0.4+
1998 08 31	704	1.6+	0.7−	1999 01 07	699	1.2−	0.4+	2000 03 12	699	0.3−	0.4+
1998 08 31	704	1.5+	1.3−	1999 01 23	699	0.2−	0.4+	2000 03 12	699	0.2−	0.5+
1998 08 31	704	0.3−	0.4−	1999 01 23	699	0.7−	0.4+	2000 03 14	704	0.2+	0.4−
1998 08 31	704	0.7+	1.3+	1999 01 23	699	0.2−	0.2+	2000 03 14	704	0.5+	0.1+
1998 11 10	704	0.1+	0.1−	1999 02 04	704	1.6−	0.2+	2000 03 14	704	0.2+	0.4+
1998 11 10	704	0.0	0.5+	1999 02 04	704	0.6−	0.2+	2000 04 07	704	0.1−	0.2+
1998 11 10	704	0.5−	0.6+	1999 02 04	704	0.4+	0.0	2000 04 07	704	0.0	0.4+
1998 11 10	704	0.2+	0.4−	1999 02 04	704	1.0−	0.1+	2000 04 07	704	0.0	0.8+
1998 11 10	704	0.3+	1.1−	1999 02 04	704	1.7+	0.0	2000 04 07	704	0.1+	0.9+
1998 11 11	704	0.0	0.2+	1999 02 04	699	1.1−	0.5+	2000 04 07	704	0.7+	1.1+
1998 11 11	704	0.3+	0.3−	1999 02 04	699	0.9−	0.2−	2000 04 13	608	0.1−	1.1−
1998 11 11	704	1.8−	0.6+	1999 02 04	699	0.3−	1.0+	2000 04 13	608	0.3−	1.4−
1998 12 22	704	0.0	0.2+	1999 02 15	699	0.5−	0.1−	2000 04 13	608	0.1−	2.0−
1998 12 22	704	1.1+	0.3−	1999 02 15	699	0.4+	0.5−				
1998 12 22	704	0.5+	0.8−	1999 02 15	699	0.4−	0.1−				

(14631)* 1998 VS₃₂ = 1971 BW = 1986 WY₆

Discovered 1998 Nov. 15 by the Catalina Sky Survey.

Id. A. Doppler (*MPC* 34932), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	316.60537		(2000.0)		P		Q				
n	0.17651808		ω	164.75086	−0.22660396		+0.93765850				
a	3.1473370		Ω	91.60417	−0.91892987		−0.11614077				
e	0.0873689		i	15.28566	−0.32282895		−0.32757877				
P	5.58		H	11.7	G	0.15	U		1		
Residuals in seconds of arc											
1971 01 25	095	0.1+	2.3−	1999 02 18	699	0.6+	1.1+	2000 04 04	704	0.2+	0.1−
1986 11 28	010	0.0	0.4−	1999 05 08	704	0.7+	0.7+	2000 04 04	699	0.3−	0.0
1986 11 28	010	0.6−	2.1+	1999 05 08	704	0.5+	0.7−	2000 04 04	704	0.5+	0.0
1986 11 28	010	1.2−	1.4+	1999 05 08	704	0.2−	0.8−	2000 04 04	699	0.4−	0.0
1998 03 16	327	0.2−	0.9+	1999 05 08	704	0.4+	0.4+	2000 04 04	704	0.4+	0.3−
1998 03 16	327	0.2+	0.8+	1999 06 04	704	0.2+	0.5+	2000 04 04	699	0.2−	0.1−
1998 03 16	327	0.1−	0.5+	1999 06 04	704	0.3−	0.3−	2000 04 04	704	0.1+	0.0
1998 11 15	703	0.0	0.5+	1999 06 04	704	0.1+	0.0	2000 04 12	704	0.3+	0.1+
1998 11 15	703	0.1+	1.3+	1999 06 04	704	0.1−	0.3−	2000 04 12	704	0.1−	0.0
1998 11 15	703	0.0	1.1+	1999 06 04	704	0.2+	0.2−	2000 04 12	704	0.4+	0.9+
1998 11 16	703	0.5+	0.8+	1999 06 07	704	0.1+	0.5+	2000 04 12	704	0.4+	0.1−
1998 11 16	703	0.2−	0.6+	1999 06 07	704	0.2−	0.7−	2000 04 12	704	0.7−	0.2+
1999 02 10	704	0.7−	0.4−	1999 06 07	704	1.4+	0.2−	2000 04 13	704	0.1+	0.1−
1999 02 10	704	0.3−	1.2−	1999 06 07	704	0.1−	0.2−	2000 04 13	704	0.1+	0.5+
1999 02 10	704	0.5+	1.1−	1999 06 07	704	0.7+	0.9−	2000 04 13	704	0.3+	0.2+
1999 02 10	704	0.4+	1.7−	2000 02 08	704	0.2−	0.0	2000 04 13	704	0.1+	0.3+
1999 02 10	704	0.2+	0.6−	2000 02 08	704	0.1+	0.3−	2000 04 13	704	0.2+	0.4+
1999 02 13	704	0.2−	0.7−	2000 02 08	704	0.4+	0.6+	2000 04 14	704	0.1−	0.3+
1999 02 13	704	0.8−	0.4−	2000 03 15	699	0.5+	0.4+	2000 04 14	704	0.0	0.2+
1999 02 13	704	0.5−	0.2−	2000 03 15	699	0.2+	0.2+	2000 04 14	704	0.2−	0.3+

M.P.C. 39886

2000 APR. 18

1999 02 13	704	1.0–	0.0	2000 03 15	699	0.2+	0.1+	2000 04 14	704	0.2–	0.4+
1999 02 13	704	1.3–	0.0	2000 03 15	699	0.2–	0.1+	2000 04 14	704	0.5–	0.7+
1999 02 18	699	0.0	0.6+	2000 04 04	704	1.0+	0.4–				
1999 02 18	699	0.5+	1.3+	2000 04 04	699	0.2–	0.0				

(14632)* 1998 VY₃₃ = 1976 SF₄ = 1982 BJ₁₅ = 1989 SM₉ = 1996 FC₁₆

Discovered 1998 Nov. 11 by N. Ehrling at Bornheim.

Id. S. Nakano (*MPC* 33320)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	113.32240		(2000.0)	P	Q
n	0.22645924	ω	137.47428	+0.67577532	−0.73661959
a	2.6656883	Ω	269.99243	+0.66886760	+0.62809702
e	0.2177979	i	1.53684	+0.30974804	+0.25077025
P	4.35	H	13.9	G 0.15	U 1

Residuals in seconds of arc

1976 09 24	095	(1.3–	3.4+)	1998 11 20	699	0.4+	1.0+	2000 03 03	703	0.6+	0.1+
1976 09 29	095	(3.1+	3.6+)	1998 11 20	699	0.4+	0.6+	2000 03 03	703	0.0	0.6–
1982 01 30	675	0.6–	0.3+	1998 11 20	699	0.6+	0.8+	2000 03 07	113	0.3+	0.2–
1982 01 31	675	0.4+	0.2–	1998 11 20	127	0.1+	0.1+	2000 03 07	113	0.6–	0.1+
1989 09 25	809	0.0	0.4+	1998 11 20	127	0.2+	0.4–	2000 03 10	704	0.5+	0.2–
1989 09 25	809	0.3+	0.3+	1998 11 20	127	0.2–	0.2–	2000 03 10	704	0.7+	0.2–
1989 09 25	809	0.4+	0.4+	1998 11 24	704	0.9+	0.0	2000 03 10	704	0.5+	0.1+
1989 09 26	809	0.8–	0.5+	1998 11 24	704	0.4+	1.4–	2000 03 10	704	0.8+	0.1–
1989 09 26	809	0.2–	0.5+	1998 11 24	704	0.2+	0.3–	2000 03 10	704	0.3+	0.4+
1989 09 26	809	0.5+	0.5+	1998 11 24	704	0.3–	0.0	2000 03 11	704	0.5+	0.7+
1996 03 22	809	1.4–	2.1+	1998 11 24	704	0.3–	1.0+	2000 03 11	704	0.4+	0.1+
1996 03 22	809	1.2–	1.8+	1998 11 25	699	1.3–	0.6+	2000 03 11	704	0.6+	0.6+
1996 03 22	809	(1.4–	2.7+)	1998 11 25	699	0.1+	0.0	2000 03 11	704	0.7+	0.4+
1996 03 26	809	2.1–	0.1–	1998 11 25	699	0.1–	0.2+	2000 03 11	704	1.1+	1.7+
1996 03 26	809	(4.3–	0.9–)	1998 12 08	113	0.4–	0.4+	2000 03 26	699	0.9–	0.7+
1996 03 26	809	(4.5–	1.4–)	1998 12 08	113	0.6–	0.1+	2000 03 26	699	0.8–	0.4+
1998 11 11	127	1.6+	0.7+	1998 12 10	113	0.4–	0.5+	2000 03 26	699	0.1–	0.0
1998 11 11	127	0.4+	0.8+	1998 12 11	699	0.5–	0.0	2000 03 26	699	0.0	0.6+
1998 11 11	127	1.2–	0.4+	1998 12 11	699	0.5+	0.5–	2000 04 02	621	0.2+	0.3–
1998 11 12	399	0.5+	0.7+	1998 12 11	699	0.0	0.6+	2000 04 02	621	0.2–	0.4–
1998 11 17	127	0.0	0.5–	1998 12 14	704	0.1+	0.0	2000 04 02	621	0.2–	0.4–
1998 11 17	127	0.7–	0.9–	1998 12 14	704	0.7+	0.3–	2000 04 05	704	0.4+	0.1–
1998 11 18	399	0.1+	0.6–	1998 12 14	704	0.8–	1.3+	2000 04 05	704	0.7+	0.3–
1998 11 18	399	1.6–	0.5+	1998 12 14	704	0.2+	0.0	2000 04 05	704	0.1–	0.3–
1998 11 19	399	1.1–	0.4–	1998 12 14	704	0.4–	0.8+	2000 04 05	704	0.1+	0.1+
1998 11 19	399	0.8–	0.7+	1998 12 16	127	0.8+	1.6–	2000 04 05	704	0.4+	0.4–
1998 11 19	127	0.0	0.4–	1998 12 16	127	0.8+	1.5–	2000 04 06	621	0.0	0.2–
1998 11 19	127	0.2–	0.4–	1998 12 17	127	0.7+	0.2+	2000 04 06	621	0.2–	0.4–
1998 11 19	127	0.6+	0.6–	1998 12 17	127	0.9+	0.5+	2000 04 06	621	0.2+	0.3–
1998 11 20	127	0.0	0.0	1999 01 14	127	1.2–	0.7–	2000 04 06	704	0.2+	0.9–
1998 11 20	127	0.1+	0.2–	1999 01 14	127	1.3–	0.8–	2000 04 06	704	0.2+	0.1–
1998 11 20	127	0.1+	0.4–	2000 03 03	703	0.1+	0.7–	2000 04 06	704	0.1–	0.2–
1998 11 20	127	0.0	0.1–	2000 03 03	703	0.4–	0.0	2000 04 06	704	0.3+	0.2–

(14633)* 1998 VY₃₄

Discovered 1998 Nov. 12 by S. Ueda and H. Kaneda at Kushiro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	151.07908		(2000.0)	P	Q
n	0.27995180	ω	274.53187	+0.91011690	−0.39964455
a	2.3142692	Ω	109.05547	+0.41102164	+0.83734835
e	0.1942114	i	6.64731	+0.05242561	+0.37300398
P	3.52	H	14.6	G 0.15	U 2

Residuals in seconds of arc

1980 07 12	413	0.8–	0.6+	1998 11 19	399	1.5–	1.5–	2000 03 11	699	0.1–	0.3+
1980 07 12	413	0.2+	1.2+	1998 11 22	399	(1.2–	3.7–)	2000 03 11	699	0.3–	0.1+
1980 03 08	675	1.0–	0.4+	1998 11 22	399	(1.3–	2.5–)	2000 03 11	699	0.9+	0.6+
1989 03 08	675	0.5+	1.4–	1998 12 10	399	0.1+	0.5–	2000 03 11	699	0.8+	0.2+
1991 12 07	675	0.1–	0.4–	1998 12 10	399	1.8–	0.5+	2000 03 12	703	2.0–	0.5+

1991 12 07	675	0.9+	0.4–	1998 12 11	699	0.6+	0.5+	2000 03 12	703	0.5–	1.1+
1998 10 19	699	1.3+	0.0	1998 12 11	699	0.9+	0.1–	2000 03 12	703	0.3–	0.3+
1998 10 19	699	0.0	0.4–	1998 12 11	699	0.7+	0.7–	2000 03 12	703	1.0–	0.5+
1998 10 19	699	0.3+	0.3–	1999 01 10	699	0.3–	0.1–	2000 03 29	704	1.3+	0.6–
1998 10 28	399	0.6+	0.6–	1999 01 10	699	0.2+	0.4–	2000 03 29	704	0.6+	0.9–
1998 10 28	399	1.2–	1.7+	1999 01 10	699	0.1+	0.3–	2000 03 29	704	0.1+	0.2–
1998 11 12	399	0.9–	0.8+	1999 01 11	704	0.8+	1.2+	2000 03 29	704	0.8+	0.3–
1998 11 12	399	0.6–	1.8+	1999 01 11	704	0.9+	0.6+	2000 03 29	704	0.0	0.1–
1998 11 14	699	0.1–	0.2+	1999 01 11	704	1.0+	0.1–	2000 04 08	704	0.3–	0.8+
1998 11 14	699	0.0	0.3+	1999 01 11	704	(2.4+	0.6–)	2000 04 08	704	0.1+	0.6–
1998 11 14	699	0.6+	0.3+	1999 01 11	704	1.2–	0.8+	2000 04 08	704	0.8+	0.2+
1998 11 18	399	(0.5–	2.4–)	1999 02 04	699	0.2–	0.1–	2000 04 08	704	0.7+	0.5+
1998 11 18	399	0.6–	0.7–	1999 02 04	699	1.1–	0.6–	2000 04 08	704	0.2+	1.1+
1998 11 19	399	(0.6–	3.8–)	1999 02 04	699	0.2+	1.7+				

(14634)* 1998 VE₃₇ = 1981 AW₃ = 1991 GZ₇

Discovered 1998 Nov. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 33518)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	66.09118		(2000.0)	P	Q		
n	0.21358527	ω	83.76423	−0.04771354	−0.99855104		
a	2.7717572	Ω	9.08314	+0.84275980	−0.05361722		
e	0.1814894	i	9.06932	+0.53617099	−0.00458429		
P	4.61	H	13.8	G	0.15	U	1

Residuals in seconds of arc

1981 01 08	381	2.1–	0.3+	1998 12 09	725	0.5–	0.2–	2000 03 11	704	0.4–	0.1–
1981 01 08	381	2.0+	0.6–	1998 12 13	725	0.3–	0.0	2000 03 11	704	0.2–	0.1–
1991 04 08	809	0.2–	0.6+	1998 12 13	725	0.0	0.0	2000 03 11	704	0.2–	0.4–
1991 04 08	809	0.3–	0.4–	1999 11 17	703	0.9–	0.7+	2000 03 11	704	0.4–	0.2–
1991 04 08	809	1.3–	1.3–	1999 11 17	703	1.8+	0.1+	2000 03 11	704	0.1–	0.0
1991 04 10	809	0.8+	1.6–	1999 11 17	703	1.7+	0.3+	2000 03 26	699	0.0	0.2–
1991 04 10	809	0.9+	1.5–	1999 11 17	703	(2.1+	3.1–)	2000 03 26	699	0.1–	0.1–
1991 04 10	809	0.9–	0.5–	2000 02 27	691	0.4–	0.9–	2000 03 26	699	0.4+	0.7+
1991 04 15	675	0.1–	0.7–	2000 02 27	691	0.8–	0.9–	2000 03 26	699	0.4–	0.2–
1991 04 15	675	1.2–	0.0	2000 02 27	691	0.4–	0.8–	2000 04 04	704	0.4+	0.3+
1991 04 19	809	1.2–	1.4–	2000 03 06	608	0.6–	0.6–	2000 04 04	704	0.4+	1.4+
1991 04 19	809	(0.9–	2.2–)	2000 03 06	608	0.7–	1.1–	2000 04 04	704	0.3+	0.2+
1991 04 19	809	(1.7–	2.4–)	2000 03 06	608	0.7–	1.2–	2000 04 04	704	0.5–	0.1+
1998 11 10	704	0.3–	0.1–	2000 03 08	704	0.6+	0.4–	2000 04 04	704	0.2–	0.5+
1998 11 10	704	0.2–	0.4–	2000 03 08	704	0.2–	0.2+	2000 04 05	704	0.1–	0.3+
1998 11 10	704	0.3–	0.1–	2000 03 08	704	0.1–	1.3+	2000 04 05	704	0.1+	0.4+
1998 11 10	704	0.3+	0.2+	2000 03 08	704	0.0	1.1+	2000 04 05	704	0.6+	0.3+
1998 11 11	704	0.6+	0.0	2000 03 08	704	0.2–	0.7+	2000 04 05	704	0.0	0.7+
1998 11 11	704	0.9+	1.1+	2000 03 10	704	0.3–	0.1+	2000 04 05	704	0.3+	0.5+
1998 11 11	704	0.5+	0.9–	2000 03 10	704	0.4–	0.3+	2000 04 06	704	0.2+	0.3+
1998 11 11	704	1.6+	0.6–	2000 03 10	704	0.6–	0.0	2000 04 06	704	0.1+	0.3+
1998 11 11	704	1.3+	1.0–	2000 03 10	704	0.7–	1.1–	2000 04 06	704	0.5+	0.3+
1998 11 15	699	0.2–	0.4+	2000 03 10	704	1.6–	0.8–	2000 04 06	704	0.3+	0.6+
1998 11 15	699	0.9+	0.3+	2000 03 11	704	0.5+	0.2–	2000 04 06	704	1.6+	0.9+
1998 11 15	699	0.6–	0.0	2000 03 11	704	0.2+	0.1–	2000 04 08	704	0.0	0.5–
1998 11 26	725	0.3–	0.3–	2000 03 11	704	0.7+	0.4–	2000 04 08	704	0.2+	1.5–
1998 11 26	725	0.1–	0.5–	2000 03 11	704	0.4+	0.3–	2000 04 08	704	(0.4+	3.2–)
1998 11 26	725	0.1–	0.3–	2000 03 11	704	0.6+	0.4+	2000 04 10	704	0.2+	0.7+
1998 12 01	725	0.4–	0.1–	2000 03 11	704	0.4+	0.1+	2000 04 10	704	0.0	0.1+
1998 12 01	725	0.0	0.0	2000 03 11	704	1.5+	0.1+	2000 04 10	704	0.1–	0.0
1998 12 01	725	0.6–	0.2–	2000 03 11	704	0.5+	0.6+	2000 04 10	704	0.5–	0.1+
1998 12 09	725	0.5–	0.2–	2000 03 11	704	0.4+	0.8+	2000 04 10	704	0.1+	0.5+
1998 12 09	725	0.6–	0.3–	2000 03 11	704	0.4+	0.1+				

2000 APR. 18

M.P.C. 39887

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	59.04961		(2000.0)	P	Q
<i>n</i>	0.17620965	ω	201.44941	+0.11243178	-0.98673992
<i>a</i>	3.1510087	Ω	242.25900	+0.92982308	+0.14602099
<i>e</i>	0.1902501	<i>i</i>	7.60044	+0.35041138	-0.07086745
<i>P</i>	5.59	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

1953 09 16	675	1.5-	0.8-	1998 12 09	120	0.4+	0.2+	2000 02 07	704	0.8-	0.5-
1953 09 16	675	1.4+	0.5+	1998 12 09	120	0.2+	0.1+	2000 02 07	704	0.1-	0.3-
1981 10 23	095	(2.9+	0.9+)	1998 12 12	120	0.0	0.3+	2000 02 07	704	0.1-	0.3-
1986 08 28	413	1.3-	0.7+	1998 12 12	120	0.2+	0.6+	2000 02 07	704	0.6+	0.7+
1986 08 28	413	1.3+	0.6+	1998 12 12	120	0.1-	0.2+	2000 02 08	704	0.1-	0.2-
1989 03 08	413	0.5+	0.5-	1998 12 12	120	0.0	0.2+	2000 02 08	704	0.2-	0.4+
1989 03 08	413	0.2-	0.3+	1998 12 12	120	0.5-	0.3+	2000 02 08	704	0.2-	0.2+
1992 08 29	675	0.7-	0.5+	1998 12 14	120	0.3-	0.6+	2000 02 08	704	0.1-	0.8+
1992 08 29	675	0.2+	0.1+	1998 12 14	120	0.9+	0.3+	2000 02 08	704	0.3+	1.5+
1998 10 19	699	0.8+	0.1-	1998 12 14	120	0.2+	0.4+	2000 03 02	106	0.1-	0.1-
1998 10 19	699	0.3-	0.0	1999 01 06	699	0.2+	0.1+	2000 03 03	106	0.3+	0.1-
1998 10 19	699	0.4+	0.1-	1999 01 06	699	0.2+	0.2+	2000 03 03	106	0.0	0.2+
1998 11 10	704	0.6-	0.1+	1999 01 06	699	1.1-	0.9+	2000 03 08	704	0.3+	0.1-
1998 11 10	704	0.2-	1.2-	1999 02 02	699	0.5+	0.3-	2000 03 08	704	0.8+	0.1-
1998 11 10	704	0.9-	0.5+	1999 02 02	699	0.7-	1.2-	2000 03 08	704	0.2+	0.4+
1998 11 10	704	0.5-	0.6-	1999 02 02	699	0.9-	0.0	2000 03 08	704	1.0+	0.1+
1998 11 10	704	0.4-	0.4-	1999 02 04	704	0.4+	1.4-	2000 03 30	703	0.1-	0.0
1998 11 11	704	0.9-	0.5+	1999 02 04	704	0.7+	0.4+	2000 03 30	703	0.0	0.5+
1998 11 11	704	0.6-	0.0	1999 02 04	704	1.1+	0.1+	2000 03 30	703	0.8+	0.1+
1998 11 11	704	0.4-	0.7-	1999 02 04	704	1.3+	1.3-	2000 03 30	703	0.0	0.1+
1998 11 11	704	0.6-	0.0	1999 02 04	704	(3.0-	1.7+)	2000 04 04	704	0.4-	0.5+
1998 11 11	704	0.1+	0.2+	2000 01 11	699	0.7+	0.3+	2000 04 04	704	0.2+	0.7+
1998 11 20	699	1.0+	0.1+	2000 01 11	699	0.3+	0.1+	2000 04 04	704	0.1+	0.8+
1998 11 20	699	0.8+	0.5+	2000 01 11	704	1.1-	0.1-	2000 04 04	704	0.1+	0.7+
1998 11 20	699	0.2+	0.4+	2000 01 11	699	0.2-	0.6-	2000 04 04	704	0.3+	0.4+
1998 12 07	120	0.3+	0.2-	2000 01 11	704	0.1-	0.4+	2000 04 07	608	0.6-	1.6-
1998 12 07	120	0.1+	0.2-	2000 01 11	704	0.2-	1.2-	2000 04 07	608	0.4-	0.4-
1998 12 07	120	0.2-	0.2-	2000 01 11	704	(1.6-	2.2-)	2000 04 07	608	0.5-	1.1-
1998 12 09	120	0.0	0.1+	2000 02 07	704	0.8-	0.3-				

(14636)* 1998 VD₄₄ = 1983 WT = 1988 AE₄

Discovered 1998 Nov. 15 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33519)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	132.15680		(2000.0)	P	Q
<i>n</i>	0.26256680	ω	340.44120	+0.61645074	-0.77764639
<i>a</i>	2.4153284	Ω	71.30413	+0.73867183	+0.51682719
<i>e</i>	0.1124181	<i>i</i>	7.49211	+0.27267639	+0.35798847
<i>P</i>	3.75	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1983 11 29	688	0.6+	0.5+	1998 12 15	120	0.4-	0.3+	2000 03 08	704	0.0	0.1+
1983 11 29	688	0.2-	0.6-	1998 12 17	704	0.0	0.4+	2000 03 08	704	0.4-	0.5+
1988 01 12	033	0.8-	0.1-	1998 12 17	704	0.6+	0.7+	2000 04 04	699	0.2+	0.3+
1988 01 12	033	0.3+	0.6-	1998 12 17	704	0.2-	0.2+	2000 04 04	699	0.3-	0.3+
1997 06 29	704	0.5-	1.1+	1998 12 17	704	0.3+	0.5+	2000 04 04	704	0.4-	0.1-
1997 06 29	704	0.3-	0.1+	1998 12 17	704	1.8+	0.4-	2000 04 04	704	0.4+	0.2+
1997 06 29	704	0.3+	0.0	1998 12 18	120	0.3-	0.3+	2000 04 04	699	0.3-	0.4+
1997 06 29	704	0.8+	0.5+	1998 12 18	120	0.5-	0.0	2000 04 04	704	0.3+	0.1-
1997 06 29	704	0.5-	0.1+	1998 12 18	120	0.2-	0.1-	2000 04 04	699	0.1-	0.4+
1998 11 15	120	1.6-	0.1+	1998 12 22	120	0.5-	0.6-	2000 04 04	704	0.3-	0.1+
1998 11 16	120	1.0-	0.7+	1998 12 22	120	0.5-	0.2+	2000 04 04	704	0.3-	0.1+
1998 11 28	120	0.1+	0.5+	1998 12 26	120	0.1-	0.6-	2000 04 08	704	0.2+	0.8+
1998 11 28	120	0.7-	0.5+	1999 01 05	699	0.2+	0.1+	2000 04 08	704	0.2+	0.4+
1998 12 11	699	0.9+	0.3+	1999 01 05	699	0.8+	0.2-	2000 04 08	704	0.3+	0.7+
1998 12 11	699	0.7+	0.4+	1999 01 05	699	0.1-	0.8-	2000 04 08	704	0.2+	0.9+
1998 12 11	699	0.4+	0.9+	1999 01 06	120	0.3-	0.2-	2000 04 08	704	0.3+	1.7+
1998 12 14	704	0.1+	0.6+	1999 01 06	120	0.4-	0.1-	2000 04 13	704	0.1+	0.2+

1998 12 14	704	0.9+	0.3-	1999 01 06	120	0.3-	0.0	2000 04 13	704	0.8-	1.0-
1998 12 14	704	0.0	0.4+	1999 01 22	699	0.2+	0.1-	2000 04 13	704	0.5+	1.0-
1998 12 14	704	0.4-	0.8+	1999 01 22	699	0.3-	0.0	2000 04 13	608	0.5+	0.7-
1998 12 14	704	0.4+	0.9-	1999 01 22	699	0.4+	2.0-	2000 04 13	608	0.3+	1.8-
1998 12 14	120	0.1-	0.2+	2000 03 08	704	0.1+	0.2-	2000 04 13	608	0.5+	0.1-
1998 12 14	120	0.3-	0.8+	2000 03 08	704	0.2+	0.3+				
1998 12 15	120	0.3-	0.4+	2000 03 08	704	0.6+	0.1-				

(14637)* 1998 WN₁ = 1980 PN₂ = 1987 RV₁

Discovered 1998 Nov. 18 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33520)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	224.71354		(2000.0)	P	Q
<i>n</i>	0.28434777	ω	106.19225	+0.81475386	+0.57772819
<i>a</i>	2.2903551	Ω	218.55467	-0.55748839	+0.75733522
<i>e</i>	0.1575055	<i>i</i>	4.51414	-0.15931991	+0.30442322
<i>P</i>	3.47	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1980 08 05	808	0.6+	0.4-	1998 12 15	704	1.3+	0.6+	2000 03 09	704	0.0	0.2+
1980 08 05	808	0.8-	1.4+	1998 12 15	704	0.2+	0.2-	2000 03 09	704	0.1+	0.1-
1987 09 01	095	0.4-	0.1-	1998 12 16	704	1.0-	0.1-	2000 03 12	699	0.5-	1.2+
1991 12 04	691	0.1-	0.4+	1998 12 16	704	0.8+	1.6-	2000 03 12	699	0.5-	0.8+
1991 12 04	691	1.0+	1.2+	1998 12 16	704	0.8+	1.4-	2000 03 12	699	0.3-	0.2+
1991 12 04	691	0.4-	0.4+	1998 12 21	411	0.1+	0.6+	2000 03 12	699	1.3-	0.8+
1997 08 01	688	0.5+	0.1-	1998 12 21	411	1.1-	0.1-	2000 04 07	699	0.5-	0.6-
1997 08 01	688	0.3+	0.3+	1998 12 22	704	1.1+	1.6-	2000 04 07	699	0.1-	0.1+
1998 11 18	411	0.6-	1.3+	1998 12 22	704	0.2-	0.5+	2000 04 07	699	0.2-	0.5+
1998 11 18	411	0.3-	0.1+	1998 12 22	704	1.2+	1.0+	2000 04 07	704	0.1+	0.3-
1998 11 19	411	0.4-	0.1+	1998 12 22	704	0.9-	1.4+	2000 04 07	699	0.3-	0.2-
1998 11 19	411	0.2-	0.3-	2000 03 03	703	0.2-	0.1-	2000 04 07	704	0.1+	0.2-
1998 11 25	411	0.6-	0.1+	2000 03 03	703	0.5+	0.1+	2000 04 07	704	0.1+	0.0
1998 11 25	411	0.5+	0.2-	2000 03 03	703	1.8+	1.6-	2000 04 07	704	0.4+	0.5-
1998 12 13	411	0.1-	0.0	2000 03 03	703	0.2-	0.3+	2000 04 07	704	0.2-	0.2-
1998 12 13	411	0.2-	0.0	2000 03 09	704	0.1+	0.4+	2000 04 08	704	0.3+	0.3+
1998 12 15	704	1.0-	0.7-	2000 03 09	704	0.4+	0.1-	2000 04 08	704	0.3-	0.1-
1998 12 15	704	0.0	0.1-	2000 03 09	704	0.3+	0.2+	2000 04 08	704	0.6+	0.6+

(14638)* 1998 WQ₁ = 1997 SZ₂₈

Discovered 1998 Nov. 18 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33520)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	73.64103		(2000.0)	P	Q
<i>n</i>	0.17633812	ω	251.62986	+0.03819220	-0.99925479
<i>a</i>	3.1494780	Ω	196.18440	+0.92421496	+0.03744939
<i>e</i>	0.1376444	<i>i</i>	1.14878	+0.37995796	+0.00934960
<i>P</i>	5.59	<i>H</i>	13.6	<i>G</i>	0.15

Residuals in seconds of arc

1994 01 16	691	1.0-	0.6-	1998 12 16	704	(0.4-	3.2+)	2000 03 14	703	0.4-	0.6-
1994 01 16	691	0.2+	0.3-	1998 12 16	704	0.6+	1.9+	2000 03 14	703	0.3+	0.2+
1994 01 16	691	0.2+	0.3-	1998 12 16	704	0.4+	0.7+	2000 03 14	703	0.9+	0.4-
1995 05 26	691	(5.8+	0.9-)	1998 12 21	411	1.4+	1.6-	2000 03 26	699	0.1+	0.2+
1995 05 26	691	0.3+	0.6-	1998 12 21	411	0.0	0.5-	2000 03 26	699	0.1-	0.2+
1997 08 12	691	0.6-	0.9+	1998 12 22	704	0.6+	0.4+	2000 03 26	699	0.3-	0.3+
1997 08 12	691	0.9-	1.0+	1998 12 22	704	0.8-	1.7-	2000 03 26	699	0.3-	0.2+
1997 08 12	691	0.6-	1.1+	1998 12 22	704	0.1-	0.6-	2000 04 04	704	0.5-	0.5+
1997 09 29	691	0.1+	1.2+	1998 12 22	704	0.3+	0.2-	2000 04 04	704	0.1+	0.2+
1997 09 29	691	0.0	1.2+	1998 12 22	704	0.6-	0.3+	2000 04 04	704	0.7+	1.0+
1997 09 29	691	0.0	0.8+	2000 03 02	104	1.8-	0.9-	2000 04 04	704	0.3-	0.3+
1997 10 06	691	0.5-	0.6+	2000 03 02	104	1.6-	0.4-	2000 04 04	704	0.4+	0.1+
1997 10 06	691	0.7-	0.8+	2000 03 03	104	0.0	0.5-	2000 04 05	704	0.0	0.1-
1997 10 06	691	0.5-	1.0+	2000 03 08	704	0.1+	0.4+	2000 04 05	704	0.2-	0.2+
1998 11 18	411	0.1+	0.6+	2000 03 08	704	1.5+	1.2+	2000 04 05	704	0.4-	0.2+
1998 11 18	411	1.0-	0.2+	2000 03 08	704	1.0+	1.2+	2000 04 05	704	0.2-	0.4+

1998 11 19	411	0.6+	0.7−	2000 03 08	704	(0.7+	2.6+)	2000 04 05	704	0.0	0.4+
1998 11 19	411	0.1+	0.2+	2000 03 08	704	(3.1+	1.4+)	2000 04 06	704	0.3−	0.1+
1998 11 25	411	0.2−	0.1−	2000 03 10	704	0.7+	0.6+	2000 04 06	704	0.0	0.2−
1998 11 25	411	0.5+	0.7−	2000 03 10	704	0.6+	0.2−	2000 04 06	704	0.6−	0.2+
1998 12 13	411	0.2−	0.0	2000 03 10	704	0.7+	0.4+	2000 04 06	704	0.3−	0.1+
1998 12 13	411	0.4−	0.1+	2000 03 10	704	1.2+	0.6+	2000 04 06	704	0.4−	0.2+
1998 12 15	704	0.3+	0.1−	2000 03 10	704	0.8+	0.8+	2000 04 08	704	0.6+	0.0
1998 12 15	704	0.4−	0.1−	2000 03 11	704	0.0	0.5−	2000 04 08	704	1.1−	1.2+
1998 12 15	704	(2.4−	0.4+)	2000 03 11	704	0.6+	0.1−	2000 04 08	704	0.5+	0.9+
1998 12 15	704	0.4−	1.3+	2000 03 11	704	0.7+	0.4+	2000 04 08	704	0.8−	0.2−
1998 12 15	704	0.6+	1.5+	2000 03 11	704	0.6+	0.7+	2000 04 08	704	0.6+	0.2−
1998 12 16	704	0.2−	0.4+	2000 03 11	704	0.8+	0.8+				
1998 12 16	704	0.9−	1.1+	2000 03 14	703	0.4−	0.2+				

(14639)* 1998 WK₃ = 1976 SY₁₀ = 1985 YD₂ = 1989 UG₅

Discovered 1998 Nov. 19 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33521)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23007833	ω	97.86801	+0.98653630	−0.16296905		
<i>a</i>	2.6376605	Ω	271.51201	+0.14413735	+0.90596010		
<i>e</i>	0.2157155	<i>i</i>	0.78426	+0.07726935	+0.39073954		
<i>P</i>	4.28	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 09 24	095	1.9−	2.1+	1998 12 16	411	0.1−	1.1−	2000 04 05	704	0.1+	0.1+
1976 09 28	095	(2.0−	3.0+)	1998 12 16	411	1.7−	0.3+	2000 04 05	704	0.5+	0.0
1985 12 17	010	0.6+	1.2−	1998 12 26	411	0.3−	1.0+	2000 04 05	704	0.8+	0.3−
1985 12 17	010	(4.5+	0.8+)	1998 12 26	411	0.6+	1.1+	2000 04 05	704	0.0	0.0
1985 12 19	010	(8.7−	7.5+)	2000 03 11	704	0.7−	0.4−	2000 04 07	704	0.3+	0.5+
1989 10 30	807	0.9+	0.7+	2000 03 11	704	0.1−	0.5+	2000 04 07	704	0.7+	1.0+
1989 11 01	807	1.1+	0.3+	2000 03 11	704	0.4−	0.2−	2000 04 07	704	0.3−	0.4+
1993 08 15	691	1.9−	1.2+	2000 03 11	704	0.7−	0.6−	2000 04 07	704	0.1+	0.8+
1993 08 15	691	0.1+	0.4+	2000 03 14	703	0.9+	0.2+	2000 04 10	691	0.3−	0.2+
1993 08 15	691	0.3+	0.4+	2000 03 14	703	0.4+	0.1−	2000 04 10	691	0.2−	0.3+
1998 11 19	411	0.1+	0.7+	2000 03 14	703	0.4−	0.9+	2000 04 10	691	0.0	0.2+
1998 11 19	411	0.5−	0.5+	2000 03 14	703	0.6+	0.8+	2000 04 13	691	0.3−	0.2−
1998 11 20	411	0.1−	0.8+	2000 03 26	699	0.0	0.1+	2000 04 13	691	0.6−	0.1+
1998 11 20	411	0.4+	0.3+	2000 03 26	699	1.6+	0.2+	2000 04 13	691	0.2−	0.1−
1998 11 28	411	0.1−	0.2−	2000 03 26	699	1.7+	0.8+				
1998 11 28	411	0.2−	0.1+	2000 03 26	699	0.0	0.2−				

(14640)* 1998 WF₄ = 1987 UV₆ = 1995 GA₉

Discovered 1998 Nov. 18 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 39278), A. Gnädig (*ibid.*), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18142198	ω	312.57320	+0.98700216	−0.15581674		
<i>a</i>	3.0903627	Ω	56.42744	+0.15778488	+0.89309447		
<i>e</i>	0.2282921	<i>i</i>	2.70652	+0.03050701	+0.42202299		
<i>P</i>	5.43	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1985 03 23	413	0.2+	0.9−	1998 11 21	704	1.0−	0.6−	1998 12 14	704	0.3−	0.5−
1987 10 27	095	0.6+	1.5−	1998 11 21	704	1.2−	0.4−	1998 12 14	704	0.8+	0.9−
1994 01 11	675	0.3+	0.0	1998 11 21	704	1.0−	0.3−	1998 12 19	691	0.0	0.2+
1994 01 11	675	(2.8+	0.1−)	1998 11 21	704	1.7−	0.6+	1998 12 19	691	0.1−	0.3+
1995 04 04	691	1.0−	0.9−	1998 11 24	704	0.4−	0.0	1998 12 19	691	0.2+	0.1+
1995 04 04	691	1.1−	0.3−	1998 11 24	704	0.6−	0.1−	1998 12 23	691	0.2+	0.2−
1995 04 04	691	1.1−	0.5−	1998 11 24	704	0.0	0.2+	1998 12 23	691	0.4+	0.1+
1998 08 31	704	1.4+	0.2+	1998 11 24	704	0.2−	0.5+	1998 12 23	691	0.0	0.3−
1998 08 31	704	0.3+	0.4+	1998 11 24	704	0.1+	1.8+	2000 02 03	704	0.4−	0.3+
1998 08 31	704	1.5+	0.4+	1998 11 25	699	0.6+	0.7+	2000 02 03	704	1.6+	1.3+
1998 11 18	704	0.2−	0.6−	1998 11 25	699	0.8−	0.8+	2000 02 03	704	0.2+	0.5−
1998 11 18	704	0.4+	1.8−	1998 11 25	699	0.5+	0.0	2000 02 03	704	0.1−	0.7+

1998 11 18	704	(0.3+	2.4−)	1998 12 08	699	0.1+	0.7−	2000 02 11	704	0.5+	0.6−
1998 11 18	704	(1.9−	2.2−)	1998 12 08	699	0.6+	0.2−	2000 02 11	704	0.4+	0.0
1998 11 18	704	(2.5−	2.4−)	1998 12 08	699	0.8+	0.4−	2000 02 11	704	0.2−	0.2+
1998 11 18	399	1.4+	0.4−	1998 12 10	399	(5.3−	2.4+)	2000 02 11	704	1.1+	0.2−
1998 11 18	399	0.0	0.0	1998 12 10	399	(5.5−	1.9+)	2000 02 25	703	0.7−	0.4−
1998 11 19	399	1.4−	0.4+	1998 12 11	699	(0.1+	2.3−)	2000 02 25	703	0.6+	1.1+
1998 11 19	399	1.4−	0.8+	1998 12 11	699	1.6+	0.2−	2000 02 25	703	(2.6−	0.1−)
1998 11 20	699	0.2−	0.3+	1998 12 11	699	1.5+	0.1−	2000 02 25	703	0.3−	0.1−
1998 11 20	699	0.6−	0.6+	1998 12 14	704	0.2−	1.0−				
1998 11 20	699	0.1−	0.1−	1998 12 14	704	0.2+	0.3+				

(14641)* 1998 WC₆ = 1988 VZ₁₁ = 1991 PE₁₄

Discovered 1998 Nov. 18 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 33322)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29803105	ω	225.28244	+0.78397882	+0.61621110		
<i>a</i>	2.2197039	Ω	96.53139	−0.54601156	+0.74213160		
<i>e</i>	0.1889453	<i>i</i>	4.34327	−0.29537872	+0.26367513		
<i>P</i>	3.31	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 11 03	327	0.3−	1.1+	1998 11 21	704	0.7+	0.4+	2000 03 05	704	0.1−	0.1−
1988 11 03	327	(0.7+	2.5+)	1998 11 21	704	0.1−	1.2−	2000 03 05	704	0.1+	0.5−
1991 08 06	675	0.2−	0.0	1998 11 21	704	1.0+	0.7+	2000 03 05	704	0.4+	0.5−
1991 08 06	675	0.0	0.3+	1998 11 22	399	1.5−	1.2−	2000 03 05	704	0.3−	1.2−
1991 08 10	675	0.1+	1.0+	1998 11 22	399	0.1+	1.0−	2000 03 09	704	0.1−	0.1+
1991 08 10	675	0.2−	0.1−	1999 01 07	699	0.5−	0.7+	2000 03 09	704	0.2+	0.3−
1998 08 31	704	0.7−	1.1+	1999 01 07	699	0.6−	0.3−	2000 03 09	704	0.3−	0.4−
1998 08 31	704	1.5−	0.9+	1999 01 07	699	0.0	0.1+	2000 03 09	704	0.5−	0.4−
1998 08 31	704	0.0	0.3+	2000 02 11	704	0.5+	0.2+	2000 03 09	704	0.6−	0.7−
1998 11 11	699	0.7+	0.9+	2000 02 11	704	0.2+	0.3+	2000 03 12	704	0.4+	0.0
1998 11 11	704	(2.4+	0.4−)	2000 02 11	704	0.5+	0.3−	2000 03 12	704	0.6−	0.5+
1998 11 11	699	0.0	1.0+	2000 02 11	704	0.7+	0.4−	2000 03 12	704	0.2−	0.2+
1998 11 11	704	1.1+	0.0	2000 02 11	704	0.1−	0.4+	2000 03 12	704	0.6−	0.3+
1998 11 11	699	0.3+	0.3+	2000 02 29	704	0.3+	0.3+	2000 03 12	704	0.2−	0.6+
1998 11 18	704	0.3+	0.4−	2000 02 29	704	0.5+	0.3+	2000 03 28	704	0.3+	0.2+
1998 11 18	704	1.0+	1.2−	2000 02 29	704	0.7+	0.5+	2000 03 28	704	0.2−	0.3+
1998 11 18	704	0.7+	1.1−	2000 02 29	704	0.4+	0.7+	2000 03 28	704	0.2−	0.0
1998 11 18	704	(0.6−	3.0−)	2000 02 29	704	0.7+	0.3−	2000 03 28	704	0.9+	0.1−
1998 11 18	399	0.6−	0.5+	2000 03 02	703	0.7−	0.3+	2000 04 03	699	0.3−	0.6+
1998 11 18	399	0.2+	0.6+	2000 03 02	703	0.1+	0.8+	2000 04 03	699	0.6−	0.4+
1998 11 19	399	0.8−	0.3−	2000 03 02	703	0.4+	0.3−	2000 04 03	699	0.1−	0.1−
1998 11 19	399	1.4−	0.1+	2000 03 02	703	0.3+	0.7+	2000 04 03	699	1.3−	1.2+
1998 11 21	704	0.3+	0.1+	2000 03 05	704	0.3+	0.0				

(14642)* 1998 WF₂₄ = 1998 WB₃₁ = 1987 QQ

Discovered 1998 Nov. 25 by N. Kawasato at Uenohara.

Id. S. Nakano (*MPC* 33528)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	208.97616		(2000.0)	P	Q
n	0.27870562	ω	65.34025	+0.80412260	+0.59296588
a	2.3211626	Ω	258.26501	−0.55979584	+0.73144978
e	0.1124408	i	2.46850	−0.20003862	+0.33670859
P	3.54	H	15.2	G 0.15	U 1

2000 APR. 18

M.P.C. 39889

1998 11 10	699	0.1−	0.2−	1998 12 11	376	0.9−	0.1−	2000 03 11	704	0.1−	0.1−
1998 11 18	704	0.4+	0.6−	1998 12 11	376	0.9+	1.4−	2000 03 11	704	0.3+	0.9+
1998 11 18	704	0.3+	0.2−	1998 12 14	704	0.3−	0.9−	2000 03 11	704	0.1+	0.3+
1998 11 18	704	0.8−	0.9+	1998 12 14	704	1.2+	0.6−	2000 04 07	704	0.1−	0.8+
1998 11 18	704	0.3−	0.9+	1998 12 14	704	0.2−	0.5+	2000 04 07	704	0.7+	0.3−
1998 11 23	376	0.5−	0.1+	1998 12 14	704	0.4−	0.8+	2000 04 07	704	0.5−	0.2−
1998 11 23	376	0.3−	0.4−	1999 02 09	691	0.7−	0.6−	2000 04 07	704	1.0+	0.2−
1998 11 24	704	0.1+	1.0+	1999 02 09	691	0.2−	0.3−	2000 04 07	704	0.5+	1.6+
1998 11 24	704	0.4−	0.4−	1999 02 09	691	0.1−	0.5−				
1998 11 24	704	0.0	0.6−	1999 02 13	691	0.0	0.8−				

(14643)* 1998 WZ₃₀ = 1989 GR₅ = 1990 SD₁

Discovered 1998 Nov. 24 by R. Roy at Blauvac.

Id. G. V. Williams (*MPC* 33528)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	186.76578	(2000.0)		P	Q		
<i>n</i>	0.26144838	<i>ω</i>	21.54395	+0.99656794	+0.04930981		
<i>a</i>	2.4222116	<i>Ω</i>	335.34506	−0.07698846	+0.84724259		
<i>e</i>	0.2176707	<i>i</i>	9.17147	+0.03041586	+0.52891260		
<i>P</i>	3.77	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 04 05	474	0.6−	0.4−	1998 12 14	704	0.2−	1.4−	1999 02 13	627	0.8+	1.5+
1989 04 05	474	0.9+	0.1−	1998 12 15	627	0.2−	0.4+	2000 03 03	703	0.5+	0.3−
1989 04 06	474	1.1−	1.6−	1998 12 15	627	0.7+	0.5−	2000 03 03	703	0.7−	0.1−
1989 04 06	474	0.3−	0.9−	1998 12 15	627	0.2+	0.1+	2000 03 03	703	0.4−	0.1−
1990 09 16	675	0.0	0.5−	1998 12 17	704	0.7+	0.2−	2000 03 03	703	0.1−	0.3−
1990 09 16	675	0.4+	0.8−	1998 12 17	704	0.0	0.1−	2000 03 12	699	0.4−	0.3−
1990 09 17	675	0.0	0.9−	1998 12 17	704	1.8−	0.2−	2000 03 12	699	0.1+	0.0
1990 09 17	675	0.2+	1.2−	1998 12 17	704	1.1+	0.2+	2000 03 12	699	0.3−	0.1−
1990 09 18	675	(0.2+ 3.5−)		1999 01 14	627	1.0−	0.6+	2000 03 12	699	0.5−	0.3−
1990 09 18	675	1.1+	0.2+	1999 01 14	627	1.8−	0.3−	2000 03 17	704	0.4−	1.0−
1998 11 21	699	0.5+	0.8+	1999 01 16	704	0.0	0.7−	2000 03 17	704	1.5+	0.4+
1998 11 21	699	0.9+	1.0+	1999 01 16	704	0.5−	0.3+	2000 03 17	704	1.4−	0.4−
1998 11 21	699	0.3+	0.2+	1999 01 16	704	0.3−	0.6+	2000 03 17	704	0.1+	0.8−
1998 11 24	627	0.5+	0.8−	1999 01 16	704	0.5−	0.9+	2000 04 07	704	0.8+	0.2−
1998 11 24	627	0.1−	0.6−	1999 01 16	704	0.1−	0.7+	2000 04 07	704	0.5+	0.1+
1998 11 25	627	0.4−	0.2−	1999 01 19	704	0.2−	0.3+	2000 04 07	704	0.5+	0.8−
1998 12 08	627	0.9−	0.0	1999 01 19	704	0.7+	0.8+	2000 04 07	704	0.2−	0.1−
1998 12 08	627	0.1+	0.2+	1999 01 19	704	0.2−	0.1−	2000 04 07	704	0.0	0.3+
1998 12 08	627	1.6−	0.6+	1999 01 19	704	0.8+	0.4−	2000 04 08	704	0.6−	0.6+
1998 12 12	627	0.5+	0.2+	1999 01 20	615	0.2+	0.5−	2000 04 08	704	0.3−	0.6−
1998 12 12	627	0.1−	0.0	1999 01 20	615	0.4+	0.6−	2000 04 08	704	0.6−	0.5+
1998 12 12	627	0.5−	0.2−	1999 01 20	615	0.1−	0.2−	2000 04 08	704	0.1−	0.4+
1998 12 13	627	0.5+	0.5−	1999 01 20	615	0.1−	0.1−	2000 04 08	704	0.2+	0.4+
1998 12 14	704	0.1+	0.5−	1999 01 20	615	0.1−	0.4+	2000 04 11	608	0.3+	0.4+
1998 12 14	704	0.0	0.3−	1999 01 20	615	0.1−	0.5+	2000 04 11	608	0.6−	0.2+
1998 12 14	704	0.6+	0.1−	1999 02 13	627	0.0	0.6−	2000 04 11	608	0.4+	0.3+
1998 12 14	704	0.7+	2.0−	1999 02 13	627	0.8+	0.1+				

(14644)* 1998 XR₃ = 1979 QE₄ = 1995 DN₅

Discovered 1998 Dec. 9 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33529)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	117.93039	(2000.0)		P	Q		
<i>n</i>	0.21855440	<i>ω</i>	122.53113	+0.53886127	−0.84129707		
<i>a</i>	2.7295832	<i>Ω</i>	294.80430	+0.75613233	+0.50554494		
<i>e</i>	0.0699435	<i>i</i>	2.71422	+0.37133869	+0.19142507		
<i>P</i>	4.51	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 08 22	809	0.5+	1.9−	1998 12 17	704	0.2+	0.3−	2000 03 09	704	0.3+	0.2+
1979 08 23	809	1.2+	0.1−	1998 12 17	704	0.5+	0.4−	2000 03 09	704	0.2+	0.1+
1993 11 06	691	1.2−	0.3+	1998 12 17	704	0.1+	0.5+	2000 03 09	704	0.3+	0.6+
1993 11 06	691	1.0−	0.4+	1998 12 17	704	0.3−	0.7+	2000 03 09	704	0.7−	0.0

1995 02 08	691	(1.1+ 2.3+)	1998 12 17	704	0.5+	0.1−	2000 04 07	699	0.4−	0.3+	
1995 02 08	691	0.8−	0.0	1998 12 17	411	0.1−	0.1+	2000 04 07	699	0.1+	0.1−
1995 02 08	691	0.7−	0.1+	1998 12 17	411	0.2−	0.1+	2000 04 07	699	1.5+	1.3+
1995 02 22	691	0.0	0.7−	1998 12 26	411	1.2+	0.1−	2000 04 07	704	0.6+	0.1−
1995 02 22	691	0.1+	0.3−	1998 12 26	411	0.4+	0.4+	2000 04 07	699	0.9+	0.3−
1995 02 22	691	0.9−	0.7−	1999 01 03	411	0.6+	0.6−	2000 04 07	704	0.1+	0.4+
1995 03 01	691	0.1−	0.4−	1999 01 03	411	0.3−	0.0	2000 04 07	704	0.5+	0.1+
1995 03 01	691	0.2−	0.6−	1999 02 07	651	0.3+	0.0	2000 04 07	704	0.2+	0.4−
1995 03 01	691	0.0	0.4−	1999 02 07	651	0.1+	0.1+	2000 04 07	704	0.8−	0.1−
1998 12 09	411	0.1−	0.0	1999 02 07	651	0.0	0.0	2000 04 08	704	0.1−	0.2−
1998 12 09	411	0.3−	0.4+	1999 02 09	651	0.1+	0.1−	2000 04 08	704	0.1+	0.9+
1998 12 11	411	0.7+	0.8+	1999 02 09	651	0.1+	0.1−	2000 04 08	704	0.1+	0.4−
1998 12 11	411	0.6+	0.0	1999 02 09	651	0.2+	0.1−	2000 04 08	704	0.3−	0.1+
1998 12 14	704	0.5−	0.1−	2000 03 03	703	0.1+	0.2−	2000 04 08	704	0.8−	1.5+
1998 12 14	704	0.8−	0.1+	2000 03 03	703	0.4−	0.7−	2000 04 10	704	1.2−	0.7−
1998 12 14	704	0.1+	0.1+	2000 03 03	703	0.1+	0.1+	2000 04 10	704	0.0	0.1+
1998 12 14	704	0.3−	0.5−	2000 03 03	703	0.7−	0.7+	2000 04 10	704	0.4+	0.7−
1998 12 14	704	0.6−	0.3−	2000 03 09	704	0.6+	0.3+	2000 04 10	704	0.6+	0.6−

(14645)* 1998 XR₉ = 1987 YM₂

Discovered 1998 Dec. 14 by K. Korlević at Višnja.

Id. A. Gnädig (*MPC* 35639), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	319.88898	(2000.0)		P	Q		
<i>n</i>	0.25907426	<i>ω</i>	357.45378	−0.65021294	+0.75571012		
<i>a</i>	2.4369870	<i>Ω</i>	231.97550	−0.69529140	−0.63340514		
<i>e</i>	0.1004862	<i>i</i>	5.70188	−0.30625644	−0.16643358		
<i>P</i>	3.80	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 11 04	413	0.0	0.7+	1998 12 23	120	1.2−	0.5−	2000 04 07	704	0.1−	0.4+
1982 11 04	413	0.0	0.3+	1998 12 23	120	0.5−	0.1−	2000 04 07	704	0.1+	0.6+
1987 12 20	010	0.6+	1.1−	1998 12 25	120	0.9−	0.2+	2000 04 07	704	0.1+	0.3+
1987 12 20	010	0.8−	0.2+	1998 12 25	120	0.8−	0.2+	2000 04 07	704	0.0	0.4+
1990 09 20	675	0.2−	0.8+	1999 01 05	120	0.2−	0.7+	2000 04 07	704	0.2+	0.1−
1990 09 20	675	0.4−	0.1+	1999 01 05	120	1.1+	0.6+	2000 04 08	704	0.1−	0.1+
1996 03 27	691	0.4−	0.6−	1999 01 05	120	0.2−	0.0	2000 04 08	704	0.3+	0.4+
1996 03 27	691	0.5−	0.7−	1999 01 06	120	0.0	0.0	2000 04 08	704	0.2+	0.1+
1996 03 27	691	0.5−	0.7−	1999 01 06	120	0.2−	0.1+	2000 04 08	704	0.3+	0.1−
1998 12 08	699	0.3+	0.7+	1999 01 06	120	0.1+	0.2−	2000 04 08	704	0.1−	0.1+
1998 12 08	699	0.2+	0.0	2000 01 10	704	(2.0+ 0.9−)		2000 04 10	704	0.2−	1.0+
1998 12 08	699	0.8+	0.3+	2000 01 10	704	0.1−	0.3−	2000 04 10	704	0.2−	0.1−
1998 12 14	120	0.3−	0.3+	2000 01 10	704	0.9+	0.6−	2000 04 10	704	0.3+	0.2+
1998 12 14	120	0.4+	0.9+	2000 01 10	704	0.1+	0.7−	2000 04 10	704	0.7+	0.2−
1998 12 15	120	0.4−	0.3+	2000 02 07	106	1.1+	0.1+	2000 04 10	704	0.7+	0.6+
1998 12 15	120	0.7+	0.5+	2000 02 07	106	0.2−	0.0	2000 04 14	715	0.1−	0.3+
1998 12 16	120	0.4+	0.2+	2000 04 06	699	0.1−	0.2+	2000 04 14	715	0.4+	0.1+
1998 12 16	120	0.0	0.0	2000 04 06	699	0.3−	0.2+	2000 04 14	715	0.6−	0.3+
1998 12 17	120	(0.2+ 2.1−)		2000 04 06	699	0.4−	0.1+				
1998 12 23	120	0.7+	1.3−	2000 04 06	699	0.5−	0.4+				

1996 05 21	566	0.7−	1.4−	1998 12 17	704	1.4−	0.8−	2000 03 11	699	0.7−	0.4−
1997 08 04	910	0.4−	0.8+	1998 12 17	704	0.3−	0.5−	2000 03 11	699	0.5−	0.4−
1997 08 04	910	0.3−	0.3+	1998 12 17	704	(2.3−	0.4+)	2000 03 13	704	0.3−	0.7−
1997 08 04	910	0.1−	0.4+	1999 01 22	699	0.3−	0.3+	2000 03 13	704	0.7−	1.1−
1998 08 31	704	1.0+	1.1−	1999 01 22	699	0.7+	0.8−	2000 03 13	704	0.4−	0.8−
1998 08 31	704	1.7+	0.3−	1999 01 22	699	0.5−	0.5−	2000 03 13	704	0.1+	0.8−
1998 08 31	704	1.3+	0.4+	2000 02 02	704	0.2+	0.0	2000 03 13	704	0.8+	0.5+
1998 08 31	704	1.1−	1.0−	2000 02 02	704	0.4+	0.2+	2000 04 04	699	0.4−	0.2+
1998 11 24	704	0.2−	0.2+	2000 02 02	704	0.2−	0.8+	2000 04 04	699	0.1−	0.2−
1998 11 24	704	0.2−	0.3−	2000 02 02	704	0.1+	0.7+	2000 04 04	699	0.3−	0.0
1998 11 24	704	0.6+	0.6−	2000 02 02	704	0.1+	0.2+	2000 04 04	699	0.4−	0.0
1998 11 24	704	0.4−	1.1−	2000 02 05	704	1.0+	0.0	2000 04 05	704	0.1−	0.0
1998 11 24	704	0.4−	1.1−	2000 02 05	704	0.4+	0.3+	2000 04 05	704	0.1+	0.3−
1998 11 25	699	0.5−	0.2+	2000 02 05	704	0.4+	0.4+	2000 04 05	704	0.8+	0.1−
1998 11 25	699	0.5−	0.0	2000 02 06	704	0.7+	0.2+	2000 04 05	704	0.2+	0.9+
1998 11 25	699	0.4−	0.0	2000 02 06	704	0.1+	0.5+	2000 04 05	704	0.3−	0.6+
1998 12 11	699	0.2−	0.5+	2000 02 06	704	0.0	0.3+	2000 04 08	704	0.4−	0.0
1998 12 11	699	0.0	0.7+	2000 02 06	704	0.0	0.0	2000 04 08	704	0.1+	0.3−
1998 12 11	699	0.6+	0.1+	2000 02 12	704	1.1+	1.5−	2000 04 08	704	0.2−	0.2−
1998 12 14	704	0.0	0.8+	2000 02 12	704	0.3−	0.4−	2000 04 08	704	0.5−	0.4+
1998 12 14	704	0.5+	0.2+	2000 02 12	704	(2.6−	1.7+)	2000 04 10	704	0.5−	0.2+
1998 12 14	704	0.7+	0.7−	2000 03 01	704	0.3+	0.8+	2000 04 10	704	0.1+	0.6−
1998 12 14	704	1.2+	0.1+	2000 03 01	704	0.5+	0.1+	2000 04 10	704	0.2+	0.6+
1998 12 14	704	1.3+	0.6+	2000 03 01	704	1.0+	0.8+	2000 04 10	704	0.6−	0.8+

(14647)* 1998 XG₄₈ = 1987 UU₃

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Gnädig (*MPC* 34934), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	149.53322	(2000.0)		P	Q		
<i>n</i>	0.19100012	ω	308.74488	+0.94700091	−0.26308396		
<i>a</i>	2.9861638	Ω	67.20133	+0.31969568	+0.82790732		
<i>e</i>	0.1322811	<i>i</i>	11.53389	−0.03136798	+0.49533454		
<i>P</i>	5.16	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 05 30	413	0.4−	0.9+	1999 01 16	704	0.3−	0.7−	2000 03 12	704	0.5−	0.6+
1976 05 30	413	1.0+	0.8+	1999 01 16	704	0.5+	0.7−	2000 03 28	704	0.0	0.4+
1987 10 26	054	0.6−	0.6+	1999 01 19	704	1.2−	1.0+	2000 03 28	704	0.2+	0.3−
1987 10 26	054	1.1−	0.2−	1999 01 19	704	0.7−	0.5+	2000 03 28	704	0.2−	0.7+
1995 02 26	675	0.2+	0.3−	1999 01 19	704	0.2−	1.6+	2000 03 28	704	0.1−	0.0
1995 02 26	675	(2.5+ 0.9−)		1999 01 19	704	1.7−	0.8+	2000 04 04	704	0.1+	0.3+
1997 12 30	566	0.6+	1.1−	1999 01 19	704	1.1−	0.3+	2000 04 04	704	0.3−	0.3+
1997 12 30	566	0.9+	1.2−	2000 01 07	704	0.0	1.2−	2000 04 04	704	0.0	0.5+
1997 12 30	566	1.0+	1.4−	2000 01 07	704	0.0	0.4−	2000 04 04	704	0.1−	0.8+
1998 12 14	704	0.0	0.4−	2000 01 07	704	0.4−	0.3−	2000 04 04	704	0.2+	0.5+
1998 12 14	704	0.4−	0.4−	2000 01 07	704	0.7+	1.3−	2000 04 07	608	0.0	0.3−
1998 12 14	704	1.7+	0.7−	2000 01 07	704	(0.7+ 2.6−)		2000 04 07	608	0.2−	0.4−
1998 12 14	704	0.7−	0.3+	2000 03 05	704	0.2−	0.0	2000 04 07	608	0.3−	0.3−
1998 12 14	704	0.6−	0.3−	2000 03 05	704	0.1−	0.2+	2000 04 08	704	0.1−	0.1+
1998 12 17	704	1.0+	1.0−	2000 03 05	704	0.2−	0.4+	2000 04 08	704	0.2−	0.7+
1998 12 17	704	0.8+	0.3−	2000 03 05	704	0.2+	0.1−	2000 04 08	704	0.2−	0.5+
1998 12 17	704	1.9+	0.2+	2000 03 05	704	0.1+	0.0	2000 04 08	704	0.0	0.1+
1998 12 17	704	1.5+	1.2+	2000 03 12	704	0.2+	0.6−	2000 04 08	704	0.7−	0.1+
1998 12 17	704	0.4+	0.9+	2000 03 12	704	0.3−	1.3−	2000 04 11	608	0.1+	0.5−
1999 01 16	704	0.2−	0.0	2000 03 12	704	0.3−	0.2−	2000 04 11	608	0.2+	0.3−
1999 01 16	704	0.4+	0.3−	2000 03 12	704	0.1+	0.1−	2000 04 11	608	0.1+	0.1−

(14648)* 1998 XV₄₉ = 1990 JQ = 1997 QS₃

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33716)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	313.14710	(2000.0)		P	Q		
<i>n</i>	0.17555742	ω	196.98726	−0.63995771	+0.75912813		
<i>a</i>	3.1588082	Ω	33.50659	−0.67756008	−0.48438585		
<i>e</i>	0.1094563	<i>i</i>	12.45665	−0.36244511	−0.43485036		
<i>P</i>	5.61	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 05 03	413	0.1−	0.6−	1999 01 16	704	(1.5− 2.3+)	2000 03 28	704	0.1+	0.5−	
1990 05 04	413	0.2+	0.2+	1999 01 16	704	(1.1− 2.3+)	2000 03 28	704	0.3+	0.8−	
1997 08 30	910	0.2+	0.2+	1999 01 19	704	0.2−	0.6+	2000 04 03	704	0.1+	0.2+
1997 08 30	910	0.3+	0.5+	1999 01 19	704	1.4+	1.5+	2000 04 03	704	0.4+	0.2+
1997 08 30	910	0.2+	0.4+	1999 01 19	704	0.0	1.3+	2000 04 03	704	0.2+	0.4+
1997 09 01	910	0.5−	0.3+	1999 01 19	704	0.6+	0.7+	2000 04 03	704	0.5+	0.3+
1997 09 01	910	0.8−	0.3+	2000 02 24	106	0.3+	0.7+	2000 04 03	704	0.3+	0.8+
1997 09 01	910	0.7−	0.2+	2000 02 24	106	0.0	0.2−	2000 04 05	704	0.4−	0.2+
1997 11 03	704	0.3+	1.0+	2000 02 24	106	0.6+	0.1−	2000 04 05	704	0.2−	0.1+
1997 11 03	704	(2.2+ 1.4+)		2000 03 10	704	0.3−	0.3−	2000 04 05	704	0.3−	0.4+
1997 11 03	704	0.9+	0.0	2000 03 10	704	0.3−	0.4−	2000 04 05	704	0.6−	0.6+
1997 11 03	704	0.3−	0.2−	2000 03 10	704	0.6−	0.5−	2000 04 06	704	0.2−	0.1+
1997 11 03	704	0.9−	0.7−	2000 03 10	704	0.1+	0.3−	2000 04 06	704	0.2−	0.0
1998 12 14	704	0.0	0.0	2000 03 10	704	0.1−	0.2−	2000 04 06	704	0.2−	0.1−
1998 12 14	704	0.5−	0.1−	2000 03 12	703	1.0−	0.7+	2000 04 06	704	0.6−	0.4+
1998 12 14	704	0.4+	0.9−	2000 03 12	703	0.3+	0.4+	2000 04 08	704	0.2+	0.1+
1998 12 14	704	0.9−	1.6−	2000 03 12	703	0.0	0.2+	2000 04 08	704	0.2+	0.0
1998 12 14	704	(1.1− 2.1−)		2000 03 12	703	0.2−	0.1+	2000 04 08	704	0.3−	0.1−
1998 12 17	704	0.5+	0.6−	2000 03 12	704	0.5+	0.2−	2000 04 08	704	0.5+	0.3+
1998 12 17	704	1.2+	1.2−	2000 03 12	704	0.5+	0.2−	2000 04 08	704	0.3+	0.7−
1998 12 17	704	1.7−	1.6−	2000 03 12	704	0.9+	0.3−	2000 04 10	704	0.3−	0.4−
1998 12 17	704	0.2−	1.0−	2000 03 12	704	0.1−	0.4−	2000 04 10	704	0.2−	0.6+
1998 12 17	704	0.7+	1.1−	2000 03 12	704	0.5−	0.5−	2000 04 10	704	0.4+	0.8+
1999 01 16	704	0.8−	1.0+	2000 03 28	704	0.3−	0.4−				
1999 01 16	704	1.0−	1.9+	2000 03 28	704	0.8+	0.2−				

(14649)* 1998 XW₆₂ = 1974 HW₂ = 1992 UH₇

Discovered 1998 Dec. 12 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 33719)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	98.76758	(2000.0)		P	Q		
<i>n</i>	0.18905349	ω	55.28233	+0.15921977	−0.97718412		
<i>a</i>	3.0066272	Ω	26.63310	+0.77183276	+0.03442892		
<i>e</i>	0.0798467	<i>i</i>	18.27524	+0.61556742	+0.20958495		
<i>P</i>	5.21	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1974 04 25	805	0.6−	0.5−	1998 12 27	699	0.1−	0.1−	2000 03 29	704	0.2+	0.1−
1992 10 18	691	0.0	0.5+	1998 12 27	699	0.2+	0.0	2000 03 29	704	0.3+	0.3+
1992 10 18	691	(1.9−	2.9+)	1998 12 30	699	0.8+	0.2−	2000 03 29	704	0.1+	0.3+
1992 10 21	691	0.4−	0.4+	1998 12 30	699	0.7+	0.5−	2000 04 02	699	0.2−	0.1−
1992 10 21	691	0.2−	0.4+	1998 12 30	699	0.3−	0.2+	2000 04 02	699	0.5−	0.1−
1992 10 21	691	0.1+	0.2+	1999 01 08	699	0.4+	0.6−	2000 04 02	699	0.6−	0.3−
1997 10 30	566	0.1−	0.2−	1999 01 08	699	0.3−	0.6−	2000 04 02	699	0.8−	0.2+
1997 10 30	566	0.2−	0.1−	1999 01 08	699	0.4−	0.6−	2000 04 04	704	0.1−	0.2+
1997 10 30	566	0.2−	0.3+	1999 01 14	704	2.0−	0.1+	2000 04 04	704	0.3+	0.1−
1997 12 30	566	(0.6+	2.0−)	1999 01 14	704	0.4+	0.4+	2000 04 04	704	0.3+	0.0
1997 12 30	566	(1.5+	2.5−)	1999 01 14	704	0.4−	1.9+	2000 04 04	704	0.5+	0.2+
1997 12 30	566	(1.1+	2.9−)	1999 01 14	704	1.0−	1.1+	2000 04 04	704	0.4+	0.2+
1998 12 12	704	0.5+	0.2+	1999 01 14	704	1.5+	0.4+	2000 04 06	699	0.1+	0.2+
1998 12 12	704	0.3+	0.7−	1999 05 14	703	0.0	0.7+	2000 04 06	699	0.1−	0.4+
1998 12 12	704	0.6+	0.9−	1999 05 14	703	0.5+	0.6−	2000 04 06	699	0.2+	0.1+
1998 12 12	704	0.8+	0.1−	1999 05 14	703	0.6−	1.2+	2000 04 06	699	0.1−	0.2+
1998 12 12	704	0.7+	0.9+	1999 05 14	703	1.1+	0.1+	2000 04 08	704	0.5−	0.2+
1998 12 17	704	0.4+	0.2−	2000 01 10	699	0.7+	0.3+	2000 04 08	704	0.1+	0.1+
1998 12 17	704	0.6−	0.1+	2000 01 10	699	0.4−	0.5−	2000 04 08	704	0.6+	0.6+

2000 APR. 18

M.P.C. 39891

1998 12 17	704	0.0	0.2+	2000 01 10	699	0.7+	0.3+	2000 04 08	704	0.3+	0.1-
1998 12 17	704	0.7-	0.5+	2000 03 08	704	0.6+	0.1+	2000 04 08	704	1.0-	1.1-
1998 12 17	704	0.6+	0.4-	2000 03 08	704	0.1+	0.1-	2000 04 10	704	0.2-	0.0
1998 12 17	704	1.1-	1.5-	2000 03 08	704	0.5+	0.3+	2000 04 10	704	0.0	0.0
1998 12 17	704	1.3-	1.1-	2000 03 08	704	0.4+	0.5-	2000 04 10	704	0.0	0.0
1998 12 17	704	0.0	0.3+	2000 03 08	704	0.2-	0.1-	2000 04 10	704	0.0	0.1+
1998 12 17	704	0.3-	0.2+	2000 03 29	704	0.2+	0.0	2000 04 10	704	0.2+	0.2-
1998 12 27	699	0.5-	0.3-	2000 03 29	704	0.4-	0.1+				

(14650)* 1998 YD₃ = 1982 BT₃ = 1984 YH₂ = 1987 QQ₁₀ = 1989 EP₁₁

Discovered 1998 Dec. 17 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 33723)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28501052	ω	316.95977	+0.99087293		-0.12789013	
<i>a</i>	2.2868032	Ω	50.43766	+0.13373890		+0.89312746	
<i>e</i>	0.1374441	<i>i</i>	3.16783	+0.01687456		+0.43123944	
<i>P</i>	3.46	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 01 20	033	0.2-	0.4-	1998 12 18	411	0.5-	0.6+	2000 03 01	703	0.2-	1.3+
1982 01 20	033	1.0+	1.0-	1998 12 18	411	0.2+	0.5+	2000 04 05	704	0.5+	0.5-
1984 12 23	095	0.5-	1.1-	1998 12 26	411	0.4+	0.4+	2000 04 05	704	0.4+	0.3-
1987 08 26	095	0.3+	0.9+	1998 12 26	411	0.4+	1.3+	2000 04 05	704	0.3+	0.9-
1987 09 22	095	(3.7+	0.3-)	1999 01 04	411	0.6+	0.0	2000 04 05	704	0.0	0.8-
1987 09 24	413	0.5-	0.6-	1999 01 04	411	0.2+	0.9+	2000 04 06	704	0.5+	0.3-
1987 09 24	413	0.1-	0.4+	1999 01 16	704	0.1+	0.4-	2000 04 06	704	0.1+	0.4-
1987 09 25	095(30.5+	0.4-)		1999 01 16	704	0.4+	0.1-	2000 04 06	704	0.1+	0.1+
1989 03 03	808	1.0-	0.6+	1999 01 16	704	1.7+	0.2-	2000 04 06	704	0.1+	0.0
1989 03 03	808	0.1-	0.7-	1999 01 16	704	0.5-	0.4+	2000 04 06	704	0.1+	0.5-
1996 02 24	566	0.6+	0.3+	1999 01 16	704	1.2-	1.6+	2000 04 07	704	0.1-	0.3-
1996 02 24	566	0.6+	0.7+	1999 01 16	411	0.2-	1.1-	2000 04 07	704	0.3+	0.5+
1996 02 24	566	0.0	0.8+	1999 01 16	411	0.2-	1.1-	2000 04 07	704	0.0	0.0
1998 12 17	704	0.1-	0.0	1999 01 19	704	0.1-	1.3-	2000 04 07	704	0.2+	0.1+
1998 12 17	704	0.3+	0.7-	1999 01 19	704	1.0+	0.9+	2000 04 07	704	0.3-	0.7+
1998 12 17	704	0.1+	0.2+	1999 01 19	704	0.1+	0.3+	2000 04 12	608	0.6-	0.0
1998 12 17	704	0.4-	1.1-	1999 01 19	704	0.2+	1.4+	2000 04 12	608	0.4-	0.0
1998 12 17	704	1.1-	1.7-	2000 03 01	703	0.4-	0.7+	2000 04 12	608	0.4-	0.3-
1998 12 17	411	0.6-	0.2+	2000 03 01	703	0.4-	0.7+				
1998 12 17	411	0.4-	0.1+	2000 03 01	703	0.0	0.4+				

(14651)* 1998 YE₅ = 1983 HD

Discovered 1998 Dec. 18 by the OCA-DLR Asteroid Survey at Caussols.

Id. A. Doppler (*MPC* 34935), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17522236	ω	154.15194	-0.18246603		+0.98211552	
<i>a</i>	3.1628337	Ω	105.30623	-0.91022134		-0.15087877	
<i>e</i>	0.1929144	<i>i</i>	2.75883	-0.37175699		-0.11262638	
<i>P</i>	5.62	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 04 18	688	0.4-	0.5-	1999 01 14	699	0.0	0.8+	1999 02 24	699	1.0-	0.3+
1983 04 18	688	1.9+	1.8-	1999 01 14	699	0.3-	0.3+	1999 02 24	699	0.1-	0.6+
1983 05 08	413	2.2-	0.2+	1999 01 19	704	1.7+	0.5+	2000 02 10	704	0.9+	0.2+
1983 05 08	413	0.3-	0.1-	1999 01 19	704	0.8+	0.4-	2000 02 10	704	0.6+	0.5+
1991 10 12	675	1.1-	0.6+	1999 01 19	704	0.2+	0.8-	2000 02 10	704	0.1+	0.7+
1991 10 12	675	1.1+	0.1+	1999 01 19	704	0.3-	0.9-	2000 03 03	703	0.5-	0.7+
1997 01 06	327	0.2-	1.2+	1999 02 10	704	0.0	0.2+	2000 03 03	703	0.5+	0.6+
1997 01 06	327	1.0-	0.6+	1999 02 10	704	0.4-	0.1+	2000 03 03	703	1.2+	0.1-
1997 01 06	327	0.1+	0.9+	1999 02 10	704	0.7-	0.4-	2000 03 03	703	0.5+	0.3-
1998 12 18	910	0.1-	0.5-	1999 02 10	704	1.1-	1.6+	2000 03 12	699	0.1+	0.7+
1998 12 18	910	0.1+	0.1-	1999 02 12	699	1.2-	0.7+	2000 03 12	699	0.1+	0.4+
1998 12 18	910	0.3-	0.3-	1999 02 12	699	0.5+	0.5-	2000 03 12	699	0.2-	0.1+
1998 12 21	910	0.7+	0.1-	1999 02 12	699	0.2+	0.2-	2000 03 12	699	0.7-	0.3+

1998 12 22	910	0.6+	0.3-	1999 02 13	704	0.1-	0.0	2000 04 07	704	0.3+	0.2+
1998 12 22	910	0.6+	0.1-	1999 02 13	704	0.0	0.4-	2000 04 07	704	0.4+	0.4+
1998 12 22	910	0.7+	0.1-	1999 02 13	704	0.8+	1.0-	2000 04 07	704	0.1-	0.4+
1998 12 22	910	0.3+	0.1+	1999 02 13	704	1.0-	0.1+	2000 04 07	704	0.1-	0.2+
1998 12 22	910	0.6+	0.2-	1999 02 13	704	1.5-	0.3-	2000 04 07	704	1.0-	0.4+
1999 01 14	699	0.7+	0.1+	1999 02 24	699	0.3-	0.2+				

(14652)* 1998 YT₈ = 2000 CV₈₄

Discovered 1998 Dec. 17 by the Beijing Schmidt CCD Asteroid Program at Xinglong.

Id. G. V. Williams (*MPC* 38539)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19865166	ω	267.98139	+0.96976984		-0.23745952	
<i>a</i>	2.9089834	Ω	105.75185	+0.24060347		+0.89205602	
<i>e</i>	0.0987838	<i>i</i>	3.34809	+0.04069920		+0.38451143	
<i>P</i>	4.96	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 05 19	809	0.2-	0.4+	1998 12 22	691	0.3-	0.1-	2000 02 04	704	0.2-	0.3+
1996 05 19	809	0.5+	0.8+	1998 12 22	691	0.3-	0.2+	2000 02 11	704	(2.4+	2.3+)
1996 05 19	809	0.0	0.4+	1998 12 22	910	0.4+	0.0	2000 02 11	704	0.5+	0.8+
1996 05 22	809	(2.1+	3.1-)	1998 12 22	910	0.3+	0.0	2000 02 11	704	0.9+	0.2-
1996 05 22	809	(0.7+	2.5-)	1998 12 22	910	0.3+	0.1+	2000 02 11	704	0.4+	0.1+
1996 05 22	809	(0.9+	2.5-)	1998 12 23	327	0.1-	1.6-	2000 02 11	704	0.4+	0.7+
1997 08 03	566	0.9-	1.1+	1998 12 23	327	1.1+	1.0-	2000 02 25	703	0.1+	0.5+
1997 08 03	566	0.4+	1.5+	1998 12 23	327	1.4+	0.6+	2000 02 25	703	0.0	0.2+
1997 08 03	566	0.0	1.2+	1998 12 24	327	0.0	0.5+	2000 02 25	703	0.4-	0.1+
1998 08 31	704	0.9-	0.6-	1998 12 24	327	0.2-	0.4+	2000 02 25	703	0.4-	0.2+
1998 08 31	704	1.4-	1.6+	1998 12 24	327	0.1+	0.5+	2000 02 25	703	1.1-	0.4-
1998 08 31	704	1.5-	0.8+	1998 12 26	327	0.1-	0.2+	2000 02 25	703	0.2-	0.4+
1998 08 31	704	(2.4-	0.1-)	1998 12 26	327	0.1-	0.3+	2000 02 25	703	1.5-	0.4+
1998 11 23	699	0.1-	0.1+	1998 12 26	327	0.0	0.4+	2000 02 25	703	0.1-	0.9+
1998 11 23	699	0.5-	0.7+	1998 12 26	327	0.2-	0.0	2000 03 05	704	0.7+	0.2-
1998 11 23	699	0.2+	0.1+	1999 01 04	327	0.2+	0.2+	2000 03 05	704	0.3+	0.3-
1998 11 24	704	0.3-	0.3-	1999 01 04	327	0.1+	0.1+	2000 03 05	704	0.0	0.5-
1998 11 24	704	1.0+	1.2-	1999 01 04	327	0.4-	0.4+	2000 03 05	704	0.1+	0.3-
1998 11 24	704	0.6-	0.9-	1999 01 04	327	0.4+	0.1-	2000 03 05	704	0.5+	0.7-
1998 11 24	704	0.1+	1.2-	1999 01 04	327	0.1+	0.1-	2000 03 06	704	0.5+	0.8-
1998 11 24	704	1.2-	1.0-	1999 01 04	327	0.3+	0.4+	2000 03 06	704	0.1+	0.6-
1998 12 08	699	0.6-	0.4+	1999 01 22	699	0.3+	0.9-	2000 03 06	704	0.1+	0.1-
1998 12 08	699	0.3-	0.0	1999 01 22	699	1.3+	0.2+	2000 03 06	704	1.0+	0.3-
1998 12 08	699	0.2-	0.9+	1999 01 22	699	0.5+	0.6+	2000 03 12	704	0.1-	0.4-
1998 12 15	704	0.1-	0.6+	2000 02 02	703	0.5-	0.3+	2000 03 12	704	0.7+	0.8+
1998 12 15	704	0.0	1.9+	2000 02 02	703	0.3-	0.4+	2000 03 12	704	0.6+	0.5+
1998 12 15	704	0.6+	0.3+	2000 02 02	703	0.6-	1.0+	2000 04 03	699	0.7-	0.2+
1998 12 15	704	(5.9-	1.2-)	2000 02 02	703	0.0	0.4+	2000 04 03	699	0.7-	0.3-
1998 12 17	327	0.1-	0.2-	2000 02 04	704	0.4+	0.5-	2000 04 03	699	0.3-	0.2+
1998 12 17	327	0.3-	0.2+	2000 02 04	704	0.4+	0.3-	2000 04 03	699	0.3-	0.2+
1998 12 17	327	0.2+	0.2-	2000 02 04	704	0.6+	0.2+				
1998 12 22	691	0.3-	0.3+	2000 02 04	704	0.2+	0.6+				

1990 05 17	095	(1.7+ 2.5+)	2000 02 01	703	1.0+ 0.3+	2000 03 12	704	0.1+ 0.1-
1990 05 23	095	0.5- 0.5+	2000 02 01	703	0.0 0.3-	2000 03 12	704	0.0 0.2+
1990 05 23	095	1.5+ 2.2+	2000 02 01	703	0.7- 0.8+	2000 03 28	704	0.4- 0.7-
1998 12 26	411	0.4+ 0.4-	2000 02 01	703	0.5- 0.5+	2000 03 28	704	0.4- 0.0
1998 12 26	411	0.1- 1.1-	2000 02 04	704	1.8+ 0.5-	2000 03 28	704	0.2- 0.4-
1998 12 27	411	0.2+ 0.4-	2000 02 04	704	(2.7+ 0.1+)	2000 03 28	704	0.8+ 0.3-
1998 12 27	411	0.3- 0.5-	2000 02 04	704	(3.0+ 0.7-)	2000 04 04	704	0.5- 0.1+
1999 01 04	411	0.2+ 1.1-	2000 02 04	704	1.6+ 0.2+	2000 04 04	704	0.1- 0.7+
1999 01 04	411	0.5+ 0.6+	2000 02 27	106	1.0- 0.1+	2000 04 04	704	0.1+ 0.4+
1999 01 05	411	1.4- 0.5+	2000 02 27	106	0.2- 0.0	2000 04 04	704	0.4+ 0.6+
1999 01 05	411	1.0- 0.2-	2000 02 28	106	0.1- 0.1+	2000 04 04	704	0.6+ 0.4+
1999 01 05	411	0.6- 0.0	2000 03 05	704	0.1- 0.6+	2000 04 08	704	0.0 0.1+
1999 01 07	411	1.3- 0.3-	2000 03 05	704	0.3- 0.6-	2000 04 08	704	0.4+ 0.2+
1999 01 07	411	0.7- 0.9+	2000 03 05	704	0.5- 0.1-	2000 04 08	704	0.2- 0.3-
1999 01 16	704	0.1+ 0.4+	2000 03 05	704	0.2- 0.1+	2000 04 08	704	0.0 0.2+
1999 01 16	704	0.4- 1.1+	2000 03 05	704	0.4- 0.5-	2000 04 08	704	0.3- 0.7-
1999 01 16	704	1.0+ 0.9+	2000 03 12	704	0.0 0.2+			

(14654)* 1998 YV₁₆ = 1999 CO₅₉

Discovered 1998 Dec. 22 by Spacewatch at Kitt Peak.

Id. A. Doppler (d, *MPC* 34339)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	121.90230	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17585585	ω	259.14826	+0.53981194 -0.84173241
<i>a</i>	3.1552335	Ω	158.17284	+0.78192873 +0.49723107
<i>e</i>	0.1380021	<i>i</i>	1.45891	+0.31175396 +0.21035163
<i>P</i>	5.60	<i>H</i>	13.3	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1955 04 16	675	0.5- 1.2-	1999 01 18	704	1.0- 0.4+	2000 03 27	691	0.8- 0.3-
1955 04 16	675	0.7- 0.6-	1999 01 18	704	1.1+ 0.9+	2000 04 02	699	0.7- 0.1+
1985 06 26	413	0.1+ 0.3+	1999 01 22	691	0.1+ 0.0	2000 04 02	699	0.8- 0.2+
1985 06 26	413	1.3+ 0.3+	1999 01 22	691	0.1+ 0.2-	2000 04 02	699	0.4- 0.0
1992 12 17	675	0.5- 0.3+	1999 01 22	691	0.2+ 0.3-	2000 04 02	699	0.2- 0.5+
1992 12 17	675	0.2- 0.4+	1999 02 06	120	0.5+ 0.2-	2000 04 05	704	0.3+ 0.1-
1996 07 21	566	0.4+ 0.2-	1999 02 06	120	(2.5+ 0.5-)	2000 04 05	704	0.1- 0.2+
1996 07 21	566	0.9+ 0.1+	1999 02 06	120	0.6- 0.2-	2000 04 05	704	0.0 0.2+
1996 07 21	566	0.7+ 0.1-	1999 02 09	691	0.8- 0.5-	2000 04 05	704	0.1- 0.6+
1997 10 30	704	0.0 0.3+	1999 02 09	691	0.9- 0.4-	2000 04 05	704	0.1+ 1.0+
1997 10 30	704	1.2- 0.4-	1999 02 09	691	0.7- 0.2-	2000 04 06	699	0.4- 0.1+
1997 10 30	704	0.5+ 0.7+	1999 02 12	704	0.4+ 0.1-	2000 04 06	704	0.1+ 0.3+
1997 10 30	704	1.0- 0.2+	1999 02 12	704	1.0+ 0.3+	2000 04 06	704	0.0 0.8+
1997 10 30	704	1.4- 0.2+	1999 02 12	704	0.9+ 0.2-	2000 04 06	699	0.2- 0.1+
1998 10 20	691	0.2- 0.1-	1999 02 12	704	1.0+ 0.8+	2000 04 06	704	0.4+ 0.0
1998 10 20	691	0.0 0.2-	1999 02 12	704	1.6+ 1.1-	2000 04 06	699	0.3- 0.3+
1998 10 20	691	0.9+ 0.7-	1999 02 16	704	(2.1+ 0.1-)	2000 04 06	704	0.7+ 0.2-
1998 12 13	691	0.7- 0.0	1999 02 16	704	0.6- 0.7-	2000 04 06	699	0.0 0.7+
1998 12 13	691	0.6- 0.0	1999 02 16	704	0.1- 0.4-	2000 04 06	704	0.3+ 0.8-
1998 12 13	691	0.9- 0.4+	1999 02 16	704	1.3- 0.3+	2000 04 07	704	0.8+ 0.0
1998 12 22	691	0.1- 0.1-	1999 02 23	699	0.6+ 0.7+	2000 04 07	704	0.3+ 1.4+
1998 12 22	691	0.1- 0.1-	1999 02 23	699	0.3- 0.6+	2000 04 07	704	0.3+ 0.1+
1998 12 22	691	0.1+ 0.1-	1999 02 23	699	0.6+ 0.1+	2000 04 07	704	0.3- 0.6+
1998 12 28	691	1.1+ 0.5+	2000 03 07	120	0.0 0.3+	2000 04 07	704	0.8+ 0.4-
1998 12 28	691	0.5+ 0.0	2000 03 07	120	0.5+ 1.6+	2000 04 08	120	1.1- 0.0
1998 12 28	691	0.5+ 0.2+	2000 03 07	120	(2.9+ 0.2-)	2000 04 10	120	0.4+ 0.8-
1999 01 13	691	0.1- 0.0	2000 03 27	699	0.0 0.1-	2000 04 10	704	0.1- 0.1-
1999 01 13	691	0.0 0.2+	2000 03 27	699	0.9+ 0.7+	2000 04 10	704	0.2+ 0.0
1999 01 13	691	0.1+ 0.0	2000 03 27	691	0.9- 0.4-	2000 04 10	704	0.3+ 1.2-
1999 01 18	704	1.0- 0.9-	2000 03 27	699	0.3+ 0.1+	2000 04 10	704	0.5+ 0.0
1999 01 18	704	2.0+ 0.4-	2000 03 27	699	0.6- 0.2+	2000 04 10	704	0.1- 0.3+
1999 01 18	704	0.3+ 0.1-	2000 03 27	691	0.9- 0.2-			

(14655)* 1998 YJ₂₂ = 1992 OX₅ = 1995 EM₇

Discovered 1998 Dec. 21 by the Beijing Schmidt CCD Asteroid Program at

Xinglong.

Id. G. V. Williams (*MPC* 33727)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.47394	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21791907	ω	302.07656	-0.23851875 -0.97062070
<i>a</i>	2.7348859	Ω	161.64268	+0.92147598 -0.23650250
<i>e</i>	0.0159892	<i>i</i>	5.77500	+0.30657922 -0.04429478
<i>P</i>	4.52	<i>H</i>	13.8	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1992 07 26	809	0.5+ 0.2+	1998 12 16	699	0.3- 0.7+	1999 02 14	327	0.8- 0.8+
1992 07 26	809	0.6- 1.1+	1998 12 16	699	1.0- 0.5-	1999 02 15	327	0.8- 0.4+
1992 07 30	809	0.5- 1.6+	1998 12 21	327	0.3- 0.3+	1999 02 15	327	0.3- 1.0+
1992 07 30	809	(1.2- 2.2+)	1998 12 21	327	0.5+ 0.1+	1999 02 15	327	0.9- 0.3+
1992 07 30	809	(1.0- 2.2+)	1998 12 21	327	0.4+ 0.2+	2000 03 01	703	1.0- 1.7+
1992 07 31	809	0.5- 1.4+	1998 12 29	327	0.3- 0.3-	2000 03 01	703	0.4+ 0.6+
1992 07 31	809	0.9- 0.2-	1998 12 29	327	0.3+ 0.1-	2000 03 01	703	1.0- 0.1-
1992 07 31	809	1.1- 0.3+	1998 12 29	327	0.0 0.1-	2000 03 01	703	0.0 0.1+
1995 03 02	691	0.2+ 0.1+	1998 12 29	327	0.3- 0.2-	2000 03 03	703	0.3- 1.6+
1995 03 02	691	0.3+ 0.2-	1999 01 10	327	0.2- 0.3-	2000 03 03	703	0.1- 0.5+
1995 03 02	691	0.4+ 0.3-	1999 01 10	327	0.2- 0.7-	2000 03 03	703	0.1+ 1.0+
1995 03 08	691	0.0 0.3-	1999 01 10	327	0.3- 0.1-	2000 03 03	703	0.5- 1.0+
1995 03 08	691	0.6+ 0.1-	1999 01 18	704	0.9+ 0.3-	2000 03 12	699	0.4+ 0.1-
1995 03 08	691	0.5+ 0.1-	1999 01 18	704	0.5- 1.2-	2000 03 12	699	0.1- 0.0
1997 10 29	566	1.3- 0.1-	1999 01 18	704	0.5- 0.5+	2000 03 12	699	0.2- 0.1+
1997 10 29	566	1.2- 0.0	1999 01 18	704	1.1+ 1.6+	2000 03 12	699	0.4- 0.3+
1997 10 29	566	0.8- 0.1+	1999 01 18	704	(5.2- 1.4-)	2000 04 07	704	0.4+ 0.3-
1997 10 30	704	1.1+ 1.6+	1999 01 20	704	0.7+ 0.3+	2000 04 07	704	1.2+ 0.4+
1997 10 30	704	0.7+ 1.3+	1999 01 20	704	0.5+ 0.4+	2000 04 07	704	0.8+ 0.8+
1997 10 30	704	1.1+ 1.5+	1999 01 20	704	1.3+ 1.7+	2000 04 07	704	0.5+ 0.4+
1997 10 30	704	1.4+ 1.2+	1999 01 20	704	(2.7- 0.9+)	2000 04 07	704	0.6+ 0.2+
1997 10 30	704	0.4- 0.5+	1999 02 14	327	0.7- 0.7+			
1998 12 16	699	0.2+ 0.5+	1999 02 14	327	0.5- 0.8+			

(14656)* 1998 YN₂₂ = 1992 OQ₄

Discovered 1998 Dec. 29 by the Beijing Schmidt CCD Asteroid Program at

Xinglong.

Id. G. V. Williams (*MPC* 33727)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	80.24426	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21919959	ω	349.05562	-0.58482234 -0.80245726
<i>a</i>	2.7242245	Ω	136.59685	+0.75664477 -0.59232129
<i>e</i>	0.0386454	<i>i</i>	9.93175	+0.29235512 -0.07223450
<i>P</i>	4.50	<i>H</i>	13.2	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1992 07 26	809	1.8+	1.2-	1999 01 06	327	0.0	0.0	2000 03 15	699	0.3+	0.7-
1992 07 26	809	1.0+	1.2-	1999 01 06	327	0.2-	0.8-	2000 03 15	699	0.6+	0.4+
1992 07 26	809	0.5+	1.9-	1999 01 06	327	0.2+	0.2-	2000 03 15	699	0.7+	0.1-
1992 07 30	809	0.1+	0.8-	1999 01 10	327	0.4+	0.4-	2000 03 15	699	0.0	0.4-
1992 07 30	809	1.6-	0.6-	1999 01 10	327	1.2+	0.8-	2000 04 07	704	0.6-	0.4-
1992 07 30	809	0.6-	1.4-	1999 01 10	327	0.1+	0.0	2000 04 07	704	0.6-	0.5-
1997 09 30	566	0.4-	1.3+	1999 01 18	704	0.3+	0.0	2000 04 07	704	(3.0-	0.3+)
1997 09 30	566	0.3-	1.1+	1999 01 18	704	0.0	0.5+	2000 04 07	704	0.0	0.2-
1997 09 30	566	0.5-	1.2+	1999 01 18	704	(0.7-	2.8+)	2000 04 07	704	0.6-	0.1-
1998 11 17	699	0.4+	0.2-	1999 01 18	704	0.8+	0.0	2000 04 12	704	0.2+	0.3+
1998 11 17	699	0.6+	0.7+	1999 01 18	704	1.1+	0.1-	2000 04 12	704	0.1+	0.1-
1998 11 17	699	0.2+	0.2-	1999 01 20	704	0.3-	0.4-	2000 04 12	704	0.5+	0.3+
1998 12 29	327	0.3+	0.2-	1999 01 20	704	0.9-	1.0-	2000 04 12	704	0.2+	0.1-
1998 12 29	327	0.3+	0.1-	1999 01 20	704	1.2-	0.2-	2000 04 12	704	0.3+	0.6+
1998 12 29	327	0.2+	0.4-	1999 01 20	704	0.1-	1.6-	2000 04 13	704	0.0	0.2-
1998 12 29	327	0.4+	0.1-	1999 01 20	704	1.8-	0.8-	2000 04 13	704	0.3+	0.0
1998 12 30	327	0.1+	0.1+	1999 04 06	704	1.7-	0.5+	2000 04 13	704	0.3-	0.4+
1998 12 30	327	0.1-	0.3-	1999 04 06	704	1.5-	1.4+	2000 04 13	704	0.3-	0.4+
1998 12 30	327	0.4+	0.4-	1999 04 06	704	0.2-	0.6+	2000 04 13	704	0.6-	0.7+

2000 APR. 18

M.P.C. 39893

(14657)* 1998 YU₂₇ = 1975 NV₁ = 1984 SB₅

Discovered 1998 Dec. 26 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33728)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		209.89891		(2000.0)		P		Q	
<i>n</i>		0.22715580	ω	52.18890		+0.93893469		+0.29273180	
<i>a</i>		2.6602359	Ω	290.14240		−0.34368126		+0.82359669	
<i>e</i>		0.2774714	<i>i</i>	11.10691		+0.01687690		+0.48579479	
<i>P</i>		4.34	<i>H</i>	13.0		<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1975 07 11	095	0.3−	0.8+	1999 01 18	704	0.9−	0.4+	1999 02 16	704	0.7+	1.7+
1984 09 26	675	0.3−	1.3+	1999 01 18	704	0.4−	1.1+	2000 03 12	699	0.0	0.9+
1984 09 27	675	1.9−	0.8+	1999 01 18	704	1.3−	0.8+	2000 03 12	699	0.3+	0.5+
1984 09 28	675	0.9+	0.7+	1999 01 18	704	0.1+	0.6+	2000 03 12	699	0.2−	0.4−
1998 12 23	704	1.4+	1.5−	1999 01 18	704	0.9−	0.7−	2000 03 12	699	0.4−	0.2+
1998 12 23	704	0.6−	0.5−	1999 02 11	699	0.3−	0.7−	2000 03 13	704	1.6+	0.4−
1998 12 23	704	0.6+	0.1+	1999 02 11	699	0.3−	0.3−	2000 03 13	704	0.7+	0.9+
1998 12 23	704	1.7+	0.7−	1999 02 11	699	0.0	0.1−	2000 03 13	704	1.2+	1.6+
1998 12 23	704	(5.9−	2.2+)	1999 02 12	704	1.4−	0.1+	2000 03 13	704	(1.9+	2.4+)
1998 12 26	120	0.3+	0.1−	1999 02 12	704	0.9−	0.4+	2000 04 07	704	0.1−	0.1−
1998 12 26	120	1.8+	0.1−	1999 02 12	704	0.5+	0.1−	2000 04 07	704	0.0	1.1−
1999 01 06	120	0.4−	0.0	1999 02 12	704	0.9+	0.8−	2000 04 07	704	0.0	0.4−
1999 01 06	120	0.2−	0.9+	1999 02 12	704	0.5+	1.6−	2000 04 07	704	0.4+	1.5+
1999 01 07	120	0.2−	0.4+	1999 02 16	704	0.7−	0.5+	2000 04 07	704	1.0−	0.0
1999 01 09	120	0.1−	0.4+	1999 02 16	704	0.4−	0.3+				
1999 01 09	120	0.5+	0.3+	1999 02 16	704	0.1+	0.3+				

(14658)* 1999 AC₁₀ = 1991 RM₃₄ = 1992 XH

Discovered 1999 Jan. 13 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33732)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		249.87024		(2000.0)		P		Q	
<i>n</i>		0.19142421	ω	34.61146		+0.68187118		+0.71503242	
<i>a</i>		2.9817517	Ω	278.91976		−0.70143280		+0.57937751	
<i>e</i>		0.0904372	<i>i</i>	8.98040		−0.20746980		+0.39121650	
<i>P</i>		5.15	<i>H</i>	12.4		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 08 17	095	(1.7−	4.2+)	1999 01 14	120	1.2+	0.2+	1999 02 12	704	(2.2−	0.9−)
1991 08 17	095	0.6−	1.1+	1999 01 14	120	0.6+	0.2+	2000 03 14	704	0.5+	0.3−
1991 09 12	675	1.6+	0.5+	1999 01 14	120	0.6+	0.3−	2000 03 14	704	0.3+	0.1+
1991 09 12	675	0.3+	0.6−	1999 01 15	120	0.2+	0.2−	2000 03 14	704	0.4+	0.9−
1992 12 15	399	1.1−	0.8−	1999 01 15	120	0.1+	0.4−	2000 03 14	704	0.3−	0.3−
1992 12 15	399	(3.2−	0.6−)	1999 01 16	120	0.2+	0.1−	2000 03 30	704	1.4−	1.6−
1992 12 17	399	0.2−	0.8+	1999 01 16	120	0.1−	0.0	2000 03 30	704	0.7−	1.0−
1992 12 17	399	1.6−	0.3−	1999 01 18	704	0.8+	1.3+	2000 03 30	704	0.9−	1.2+
1998 01 02	691	0.1−	0.7−	1999 01 18	704	1.7+	0.4+	2000 04 06	704	0.2−	0.1+
1998 01 02	691	0.0	0.3−	1999 01 18	704	0.0	0.2−	2000 04 06	704	0.3−	0.7+
1998 01 02	691	0.1−	0.3−	1999 01 18	704	0.5+	1.2+	2000 04 06	704	0.1+	0.7+
1998 12 23	704	0.6−	1.4−	1999 01 18	704	(2.0−	2.1+)	2000 04 06	704	0.1+	0.5+
1998 12 23	704	0.4−	0.7−	1999 01 20	120	0.4+	0.1−	2000 04 06	704	0.2−	0.3+
1998 12 23	704	(2.3−	1.1−)	1999 01 20	120	0.7−	0.1+	2000 04 13	608	0.2+	0.1+
1999 01 10	699	0.5−	0.3−	1999 01 20	120	0.6−	0.1−	2000 04 13	608	0.1−	0.1+
1999 01 10	699	0.7+	0.7−	1999 02 12	704	0.3+	0.8−	2000 04 13	608	0.2−	0.1−
1999 01 10	699	0.0	0.1−	1999 02 12	704	(2.2+	0.7−)				
1999 01 13	120	0.2+	0.0	1999 02 12	704	0.4−	1.7+				

(14659)* 1999 AF₂₄ = 1992 OF₈

Discovered 1999 Jan. 15 by M. Tombelli and G. Forti at Montelupo.

Id. T. B. Spahr (*MPC* 33981)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		7.35176		(2000.0)		P		Q	
<i>n</i>		0.22931284	ω	80.66693		−0.94286582		+0.28019969	
<i>a</i>		2.6435273	Ω	115.42937		−0.32489500		−0.89310403	
<i>e</i>		0.1168310	<i>i</i>	11.51319		+0.07380576		−0.35192802	
<i>P</i>		4.30	<i>H</i>	12.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1955 12 11	675	0.1−	1.3−	1999 01 18	104	1.3−	0.5+	1999 03 10	704	1.8−	0.1−
1955 12 11	675	0.3+	0.8−	1999 01 18	108	1.3+	0.5−	2000 01 02	104	0.3+	1.2−
1992 07 22	809	0.9+	1.0−	1999 01 18	108	1.1−	1.2−	2000 01 02	104	1.1+	1.4−
1992 07 22	809	0.8+	0.8−	1999 01 18	108	0.8+	1.3−	2000 03 03	104	0.3+	0.5−
1992 07 22	809	0.9+	0.5−	1999 01 18	108	0.8+	1.3−	2000 03 03	104	0.5+	0.6−
1992 07 23	809	1.1−	0.6−	1999 01 19	108	0.1−	0.4−	2000 03 03	104	0.7+	0.4−
1992 07 23	809	0.7−	0.5−	1999 01 19	108	1.1+	1.9−	2000 03 08	704	0.9−	0.9−
1992 07 23	809	0.3−	0.5−	1999 01 19	108	1.2+	1.9−	2000 03 08	704	0.6+	0.3+
1998 11 23	704	1.7+	0.6−	1999 01 19	108	1.1+	0.8−	2000 03 08	704	0.1+	0.5+
1998 11 23	704	(1.8+	3.0+)	1999 01 20	108	(0.6−	2.3+)	2000 03 08	704	0.9+	0.3+
1998 11 23	704	0.8+	0.5+	1999 01 20	108	0.0	1.3+	2000 03 15	699	0.2−	0.3+
1998 11 23	704	1.5+	1.5+	1999 01 20	108	0.4−	1.0+	2000 03 15	699	0.2+	0.7+
1999 01 15	108	0.2−	0.2+	1999 01 20	108	0.9−	0.7+	2000 03 15	699	0.2−	0.1+
1999 01 15	108	0.7−	0.2−	1999 01 21	108	0.1+	0.7+	2000 03 15	699	0.1−	0.3+
1999 01 15	108	0.3−	0.4−	1999 01 21	108	1.0−	0.5+	2000 04 12	704	0.3−	0.5−
1999 01 15	108	0.5+	0.2−	1999 01 21	108	0.5−	0.3+	2000 04 12	704	0.4−	0.3+
1999 01 18	704	1.2−	1.0+	1999 01 21	108	0.1−	0.1+	2000 04 12	704	0.2−	0.5−
1999 01 18	704	0.7−	1.2+	1999 02 06	104	0.2+	0.3+	2000 04 12	704	0.2−	0.1−
1999 01 18	704	(0.4−	2.3+)	1999 02 06	104	0.8−	0.1+	2000 04 12	704	0.9−	0.3+
1999 01 18	704	0.0	0.1+	1999 02 06	104	0.8−	0.2−	2000 04 13	704	0.4−	0.1+
1999 01 18	108	0.9−	0.3−	1999 02 08	104	1.1+	0.5+	2000 04 13	704	0.1+	0.1+
1999 01 18	104	0.4−	0.2+	1999 03 10	704	1.2+	1.7−	2000 04 13	704	0.3−	0.2−
1999 01 18	108	1.0+	1.2−	1999 03 10	704	0.1−	0.1+	2000 04 13	704	0.1−	0.3+
1999 01 18	104	0.9−	0.5+	1999 03 10	704	(1.5−	2.2−)	2000 04 13	704	0.3−	0.2−

(14660)* 1999 BO₁ = 1992 ND

Discovered 1999 Jan. 16 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 33734)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		304.17398		(2000.0)		P		Q	
<i>n</i>		0.23940649	ω	173.68345		+0.20779342		+0.96652960	
<i>a</i>		2.5686924	Ω	108.23233		−0.90424688		+0.24846894	
<i>e</i>		0.1852786	<i>i</i>	9.11565		−0.37304086		−0.06390393	
<i>P</i>		4.12	<i>H</i>	12.9		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 07 02	675	0.5+	0.4−	1998 12 21	704	(0.4−	2.9−)	1999 02 13	704	0.5+	0.5+
1992 07 02	675	1.3−	1.5−	1998 12 21	704	1.2+	1.3−	1999 02 13	704	0.5+	0.6+
1992 07 05	675	0.6+	1.7−	1998 12 21	704	0.5−	1.4−	2000 02 08	704	0.2−	0.0
1992 07 05	675	0.1+	1.5−	1998 12 21	704	0.4−	0.3+	2000 02 08	704	0.0	0.5+
1996 07 15	566	0.7−	0.8−	1999 01 16	120	0.2−	0.1+	2000 02 08	704	0.7−	0.3+
1996 07 15	566	0.8−	0.6−	1999 01 16	120	0.3−	0.1−	2000 03 09	704	1.5−	1.8+
1996 07 15	566	1.0−	0.9−	1999 01 16	120	0.3+	0.2+	2000 03 09	704	0.2+	1.3+
1997 10 29	704	(2.3+	0.7+)	1999 01 19	704	1.5−	0.7−	2000 03 09	704	0.0	0.3−
1997 10 29	704	(3.5+	0.8+)	1999 01 19	704	0.2−	0.2−	2000 03 09	704	0.1+	0.3−
1997 10 29	704	(4.4+	0.8+)	1999 01 19	704	1.9+	0.6+	2000 03 09	704	0.3+	0.5+
1997 10 29	704	(4.6+	0.4+)	1999 01 19	704	0.2−	0.1−	2000 04 07	704	0.4+	0.7−
1997 10 29	704	(4.4+	0.3−)	1999 01 19	704	0.2+	0.6+	2000 04 07	704	0.6+	0.8+
1997 10 30	566	0.6−	0.3+	1999 01 19	120	0.0	0.1−	2000 04 07	704	0.1+	0.6+

1998 11 25	699	0.5−	0.6−	1999 02 10	704	0.4−	0.1−	2000 04 12	608	0.8+	0.7−
1998 11 25	699	1.1−	0.6−	1999 02 10	704	0.0	0.1+	2000 04 13	704	0.5+	0.2−
1998 11 25	699	0.1−	1.0−	1999 02 10	704	0.2+	0.2−	2000 04 13	704	0.3+	0.1−
1998 12 16	699	1.1−	1.0−	1999 02 10	704	0.4−	0.7−	2000 04 13	704	0.5+	0.4−
1998 12 16	699	0.1−	1.4−	1999 02 13	704	0.4+	0.4+	2000 04 13	704	0.1+	0.5+
1998 12 16	699	0.3−	0.9−	1999 02 13	704	0.8+	0.4+	2000 04 13	704	1.0−	0.7+
1998 12 21	704	0.3−	0.8−	1999 02 13	704	0.2+	0.4−				

(14661)* 1999 BH₁₀ = 1987 SJ₂₈ = 1997 WY₃₇

Discovered 1999 Jan. 23 by K. Korlević at Višnja.

Id. G. V. Williams (*MPC* 33987)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		283.16119		(2000.0)		P		Q	
<i>n</i>		0.21013192	ω	147.14884		+0.52518635		+0.85045272	
<i>a</i>		2.8020423	Ω	154.49334		−0.79509873		+0.50301750	
<i>e</i>		0.1186089	<i>i</i>	4.01589		−0.30331057		+0.15395964	
<i>P</i>		4.69	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 24	095	0.7+	1.5−	1999 01 24	120	0.2+	0.8+	1999 03 10	704	1.3−	0.8+
1996 09 19	327	0.1−	0.5+	1999 01 24	120	0.7+	0.5−	1999 03 10	704	0.5−	0.9+
1996 09 19	327	0.3−	0.5+	1999 01 25	120	0.0	0.6+	1999 03 10	704	0.2−	0.7−
1996 09 19	327	0.5−	0.0	1999 01 25	120	0.4−	0.6−	1999 03 10	704	0.4−	1.7+
1997 11 29	704	0.6+	0.3+	1999 01 26	120	1.4+	1.1−	2000 02 11	120	0.9−	0.8−
1997 11 29	704	0.0	1.6−	1999 02 12	704	0.8+	0.7−	2000 02 11	120	1.2−	0.5−
1997 11 29	704	(2.5+	1.3−)	1999 02 12	704	0.5+	0.6+	2000 03 12	699	0.0	0.5+
1997 11 29	704	0.5+	0.4−	1999 02 12	704	(0.6+	2.4+)	2000 03 12	699	0.2−	0.1+
1997 12 04	704	0.3−	0.6+	1999 02 13	120	0.3+	0.0	2000 03 12	699	0.1+	0.1+
1997 12 04	704	0.5+	2.0+	1999 02 13	120	(2.8−	2.5+)	2000 03 12	699	0.1−	0.1−
1997 12 04	704	(2.3+	1.7+)	1999 02 16	704	0.3+	0.2−	2000 04 07	704	0.1+	0.8+
1997 12 04	704	0.7−	1.6+	1999 02 16	704	0.9−	0.0	2000 04 07	704	0.1+	0.6+
1997 12 04	704	0.9−	0.5+	1999 02 16	704	0.2−	1.6−	2000 04 07	704	0.5+	0.8+
1999 01 23	120	0.2+	0.1−	1999 02 16	704	1.0−	0.4−	2000 04 07	704	1.9+	0.1−
1999 01 23	120	0.0	0.1−	1999 02 16	704	0.6−	0.2−				

(14662)* 1999 BF₁₂ = 1991 JM₆

Discovered 1999 Jan. 22 by T. Kobayashi at Oizumi.

Id. A. Gnädig (*MPC* 39297)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		5.84283		(2000.0)		P		Q	
<i>n</i>		0.22891686	ω	215.89489		−0.63835436		+0.76778653	
<i>a</i>		2.6465750	Ω	14.69716		−0.64617594		−0.49580209	
<i>e</i>		0.1072858	<i>i</i>	12.48341		−0.41828264		−0.40581293	
<i>P</i>		4.31	<i>H</i>	13.7		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1952 04 19	675	0.3+	0.8−	1997 10 30	566	0.2+	0.5−	1999 02 10	704	0.6+	0.5+
1952 04 19	675	0.5−	0.5+	1998 12 27	699	0.1−	0.2+	1999 02 13	704	0.6−	0.2+
1974 06 22	413	1.1−	0.0	1998 12 27	699	0.4−	0.1−	1999 02 13	704	1.2+	0.6−
1974 06 22	413	0.9+	1.0−	1998 12 27	699	0.0	0.5+	1999 02 13	704	1.1+	0.8−
1989 10 28	675	0.1+	0.3+	1999 01 22	411	0.2−	0.4−	1999 02 13	704	0.7+	0.4−
1989 10 28	675	0.4+	1.0−	1999 01 22	411	0.4+	0.7+	1999 02 13	704	1.0−	1.9−
1990 01 26	675	1.1−	0.2−	1999 01 25	411	0.4−	0.0	1999 02 16	411	0.2−	0.4−
1990 01 26	675	0.1−	0.3+	1999 01 25	411	0.4+	0.1−	1999 02 16	411	0.1+	0.4−
1991 03 25	413	0.3−	0.7−	1999 01 28	411	0.1+	0.1−	1999 02 22	699	0.9+	1.3+
1991 03 25	413	0.6+	0.4+	1999 01 28	411	0.6+	0.1−	1999 02 22	699	0.0	1.3+
1991 05 08	675(26.3−	18.8−)		1999 02 09	411	0.2−	0.3−	1999 02 22	699	0.2−	0.1−
1991 05 08	675(0.3−	2.5−)		1999 02 09	411	1.2−	0.4+	1999 05 14	703	0.1−	0.1−
1995 03 27	675	0.6−	0.0	1999 02 10	704	0.2−	0.5−	1999 05 14	703	1.0−	0.3−
1995 03 27	675	1.7−	0.0	1999 02 10	704	0.4+	0.3−	1999 05 14	703	0.9+	1.8+
1997 10 30	566	0.0	0.6−	1999 02 10	704	0.2+	0.1+	1999 05 14	703	0.2+	0.3+
1997 10 30	566	0.3+	0.4−	1999 02 10	704	0.5+	0.1+				

(14663)* 1999 BP₂₅ = 1982 DY₄ = 1987 HC₂ = 1990 AZ

Discovered 1999 Jan. 18 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 34232)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		274.07199		(2000.0)		P		Q	
<i>n</i>		0.22631205	ω	134.60319		+0.49817700		+0.86692343	
<i>a</i>		2.6668439	Ω	165.25191		−0.81249212		+0.47327114	
<i>e</i>		0.0811490	<i>i</i>	3.65554		−0.30278083		+0.15639116	
<i>P</i>		4.36	<i>H</i>	13.6		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1982 02 22	010	0.2−	1.1−	1999 01 10	699	0.8−	0.8+	2000 03 01	703	0.2−	0.0
1987 04 29	046	(3.3−	1.3−)	1999 01 10	699	(2.4−	0.6+)	2000 03 01	703	0.1+	0.2−
1987 04 29	046	1.7−	0.3−	1999 01 10	699	0.4−	0.4+	2000 03 01	703	0.4+	0.0
1987 04 29	046	1.3+	1.2−	1999 01 18	704	0.7+	0.6−	2000 03 01	703	0.8−	0.0
1987 04 29	046	(3.3+	2.4−)	1999 01 18	704	0.8+	0.7+	2000 03 03	703	0.2−	0.2+
1990 01 04	511	0.3+	1.7−	1999 01 18	704	(0.7+	3.0+)	2000 03 03	703	0.1+	0.2+
1990 01 04	511	0.5+	1.7−	1999 01 18	704	0.9+	1.4+	2000 03 03	703	0.1+	0.1−
1993 12 14	691	0.6−	0.0	1999 01 18	704	0.6+	0.3+	2000 03 03	703	0.2+	0.0
1993 12 14	691	1.0−	0.1−	1999 01 20	704	0.2−	0.6+	2000 04 07	704	0.1−	0.2−
1993 12 14	691	0.4−	0.2−	1999 01 20	704	0.4−	1.3+	2000 04 07	704	0.2+	0.1−
1997 11 03	704	0.4+	0.1+	1999 01 20	704	0.2−	1.6+	2000 04 07	704	0.1+	0.0
1997 11 03	704	0.0	0.2+	1999 01 20	704	(2.5−	2.9+)	2000 04 07	704	0.2+	0.1−
1997 11 03	704	0.1−	0.5+	1999 02 23	699	1.3−	0.3+	2000 04 07	704	0.0	0.6+
1997 11 03	704	0.4+	0.1−	1999 02 23	699	(2.6−	0.5−)	2000 04 08	704	0.0	0.5+
1997 11 03	704	0.1+	0.3+	1999 02 23	699	0.9+	0.6−	2000 04 08	704	0.1+	0.7+
1998 12 16	699	0.5+	1.8−	1999 05 08	704	1.2−	0.2−	2000 04 08	704	0.0	0.2+
1998 12 16	699	0.1−	0.4−	1999 05 08	704	0.9+	0.0				
1998 12 16	699	0.0	0.6−	1999 05 08	704	(4.2−	0.1−)				

(14664)* 1999 BY₂₅ = 1977 DV₁ = 1994 CB₈

Discovered 1999 Jan. 25 by T. Urata at the Nihondaira Observatory.

Id. T. Urata (*MPC* 33990)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		214.73227		(2000.0)		P		Q	
<i>n</i>		0.17691003	ω	7.69213		+0.94159540		+0.31296591	
<i>a</i>		3.1426866	Ω	333.02848		−0.32171183		+0.72696930	
<i>e</i>		0.0603641	<i>i</i>	15.90608		−0.09949678		+0.61120208	
<i>P</i>		5.57	<i>H</i>	12.6		<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 18	381	0.5+	1.5+	1999 02 04	888	1.2-	0.6-	2000 01 28	704	0.7-	0.5+
1977 02 18	381	1.4+	0.4-	1999 02 04	888	0.8-	0.8-	2000 01 28	704	0.5+	0.1-
1977 02 19	381	0.2-	0.5+	1999 02 10	704	0.8+	0.6-	2000 01 28	704	0.0	0.1+
1977 02 19	381	0.0	0.5+	1999 02 10	704	0.3+	0.8+	2000 01 28	704	0.1+	0.5+
1994 02 08	303	0.1-	0.1+	1999 02 10	704	0.7+	0.8+	2000 03 14	704	0.3+	0.2-
1994 02 09	303	(2.8-	0.7+)	1999 02 10	704	0.2-	0.4-	2000 03 14	704	0.5+	0.6-
1996 09 12	566	0.6-	0.7+	1999 02 10	704	0.6-	1.2+	2000 03 14	704	0.3+	0.1-
1996 09 12	566	0.8-	0.9+	1999 02 12	385	0.1-	1.0+	2000 03 14	704	0.5+	0.3+
1996 09 12	566	0.4-	0.9+	1999 02 13	704	0.5-	0.1+	2000 03 14	704	0.8+	0.9-
1999 01 19	704	0.8-	0.1-	1999 02 13	704	0.9+	0.8+	2000 03 26	888	0.1-	1.2+
1999 01 19	704	(3.0-	2.7-)	1999 02 13	704	0.9+	0.4+	2000 03 26	888	0.7-	0.5+
1999 01 19	704	0.3+	0.1+	1999 02 13	704	0.0	0.2+	2000 03 26	888	0.0	0.2+
1999 01 19	704	0.7+	0.9+	1999 02 13	704	0.6+	0.9-	2000 04 06	704	1.1-	1.3-
1999 01 19	704	0.3-	0.4+	1999 02 14	385	0.4-	0.3+	2000 04 06	704	0.0	0.1-
1999 01 25	385	(2.3+	0.3+)	1999 02 14	385	0.4-	0.1+	2000 04 06	704	0.2+	0.2+
1999 01 27	385	0.7+	1.4-	1999 02 14	888	0.0	0.3+	2000 04 06	704	0.3-	0.2-
1999 01 27	385	0.3-	1.0-	1999 02 14	888	0.4-	0.4+	2000 04 06	704	0.2+	0.4+
1999 01 28	888	0.1-	0.4-	1999 04 15	888	0.1-	1.1-				
1999 01 28	888	0.1+	0.7-	1999 04 15	888	0.0	0.1+				

2000 APR. 18

M.P.C. 39895

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	299.83564		(2000.0)	P	Q
<i>n</i>	0.23775237	ω	180.25627	+0.32944756	+0.90756782
<i>a</i>	2.5805928	Ω	108.98890	-0.86577199	+0.40039557
<i>e</i>	0.1735528	<i>i</i>	15.98221	-0.37670037	-0.12650706
<i>P</i>	4.15	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

1950 04 18	675	0.0	0.8-	1999 02 13	704	0.1-	0.6-	1999 05 08	704	0.6-	1.6-
1950 04 18	675	0.1-	0.3+	1999 02 13	704	0.3-	0.2+	1999 05 08	704	0.7+	0.6+
1989 11 07	675	1.8-	0.8+	1999 02 13	704	0.3+	0.1-	1999 05 08	704	(1.3+	2.1+)
1989 11 07	675	1.5+	0.0	1999 02 13	704	0.4-	0.4-	1999 05 08	704	0.1-	0.4-
1990 01 24	675	0.4-	0.1+	1999 02 13	385	0.1+	0.3+	1999 05 08	704	(3.2-	0.6+)
1990 01 24	675	0.4+	0.0	1999 02 13	385	0.6-	0.3+	2000 02 29	888	0.4-	0.8-
1993 11 08	675	1.4-	0.3+	1999 02 13	886	0.3-	0.4+	2000 02 29	888	0.0	1.0-
1993 11 08	675	1.1+	0.0	1999 02 13	886	1.6-	1.1-	2000 02 29	888	0.0	1.0-
1998 11 18	699	0.4+	0.8-	1999 02 15	888	0.3-	0.3+	2000 03 08	704	0.1+	0.2+
1998 11 18	699	0.7+	0.5+	1999 02 15	888	0.1+	0.0	2000 03 08	704	0.3+	1.0+
1998 11 18	699	0.7+	0.3-	1999 02 16	385	0.2-	0.3+	2000 03 08	704	0.2+	0.6+
1999 01 10	699	0.4+	0.6+	1999 02 16	385	0.2-	0.5+	2000 03 08	704	0.6+	0.8+
1999 01 10	699	0.8+	1.2+	1999 02 17	888	0.0	0.0	2000 04 04	704	(3.8+	0.2-)
1999 01 10	699	1.3+	0.1+	1999 02 17	888	0.5+	0.2-	2000 04 04	704	(3.7+	0.8+)
1999 01 19	704	1.3+	0.4-	1999 02 17	888	0.3-	0.1+	2000 04 04	704	(3.8+	0.6+)
1999 01 19	704	0.5-	0.8+	1999 02 19	385	0.7-	1.1+	2000 04 04	704	(1.3+	2.2+)
1999 01 19	704	1.0-	0.3+	1999 02 19	385	0.3+	0.2+	2000 04 08	888	0.2+	0.3-
1999 01 19	704	(0.7+	2.2+)	1999 02 19	385	0.4+	0.1-	2000 04 08	888	0.4-	0.3-
1999 01 19	704	0.0	1.1+	1999 02 21	385	0.0	0.1+	2000 04 08	888	0.0	0.0
1999 02 10	704	0.4+	0.3-	1999 02 21	385	0.4+	0.1-	2000 04 14	704	0.5+	0.1-
1999 02 10	704	0.2-	0.4-	1999 02 21	385	0.3-	0.1+	2000 04 14	704	0.0	0.5+
1999 02 10	704	0.1+	0.6-	1999 02 23	888	0.3-	0.1-	2000 04 14	704	0.1+	0.5+
1999 02 10	704	0.3-	1.1-	1999 02 23	888	0.4+	0.1+	2000 04 14	704	0.3+	0.5+
1999 02 12	385	0.7-	1.8-	1999 04 07	385	0.8-	0.1+	2000 04 14	704	0.4-	1.0+
1999 02 13	704	0.7+	0.4-	1999 04 07	385	1.0+	0.6+				

(14666)* 1999 CG₁₇ = 1995 KR₅

Discovered 1999 Feb. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. B. G. Marsden (*MPC* 34238)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	0.16507		(2000.0)	P	Q
<i>n</i>	0.18802448	ω	86.93028	-0.90281689	+0.39117189
<i>a</i>	3.0175869	Ω	116.03738	-0.42894955	-0.84855315
<i>e</i>	0.0489209	<i>i</i>	11.46678	+0.03039637	-0.35628936
<i>P</i>	5.24	<i>H</i>	12.4	<i>G</i>	0.15

Residuals in seconds of arc

1995 05 24	693	(2.2-	0.5-)	1998 12 14	691	0.1-	0.3-	1999 05 08	704	0.1+	0.5+
1995 05 24	693	1.8-	0.5-	1999 01 09	691	1.0+	0.4-	1999 05 08	704	0.1+	0.0
1995 05 25	693	0.4+	0.9-	1999 01 09	691	1.3-	0.2-	1999 05 08	704	1.2+	1.5+
1995 05 25	693	(2.9-	1.8-)	1999 01 15	691	0.3-	0.1-	2000 02 08	704	0.2+	0.6+
1995 06 04	691	1.0-	1.6+	1999 01 15	691	0.4-	0.1-	2000 02 08	704	0.1-	0.2+
1995 06 04	691	0.7+	0.0	1999 01 15	691	0.3-	0.1+	2000 02 08	704	0.3+	0.1-
1995 06 04	691	0.7+	0.1-	1999 01 19	704	0.4+	0.7-	2000 03 08	704	(0.6+	2.2-)
1995 06 29	691	0.3+	0.0	1999 01 19	704	0.3+	0.1-	2000 03 08	704	0.2-	0.2+
1995 06 29	691	0.4+	0.2-	1999 01 19	704	0.3-	0.2-	2000 03 08	704	0.1+	1.6+
1995 06 29	691	0.4+	0.1-	1999 01 19	704	0.5+	0.0	2000 04 04	704	0.7+	0.1+
1997 10 29	566	0.3-	0.2+	1999 02 10	704	0.8+	0.5-	2000 04 04	704	0.6+	0.4+
1997 10 29	566	0.4-	0.2+	1999 02 10	704	0.5+	1.2+	2000 04 04	704	0.3+	0.3+
1997 10 29	566	0.2-	0.5+	1999 02 10	704	1.4+	0.3-	2000 04 04	704	0.2-	0.1+
1997 11 19	327	0.2-	0.9+	1999 02 10	704	0.2-	0.9-	2000 04 04	704	0.3-	0.6+
1997 11 19	327	0.1-	0.7+	1999 02 10	704	0.9+	1.0-	2000 04 07	699	0.4-	0.2+
1997 11 19	327	0.5-	0.6+	1999 02 13	704	0.5+	0.1+	2000 04 07	699	0.5-	0.4+
1997 11 19	327	0.1-	0.7+	1999 02 13	704	0.3-	0.0	2000 04 07	699	0.4-	0.3+
1997 11 19	327	0.3-	0.7+	1999 02 13	704	0.5-	0.2+	2000 04 07	699	0.1-	0.3+
1997 11 19	327	0.1-	0.8+	1999 02 13	704	0.3-	0.6+	2000 04 10	608	0.1-	0.2-

1998 11 23	699	0.1-	0.9-	1999 02 13	704	0.8-	0.0	2000 04 10	608	0.0	0.3-
1998 11 23	699	0.7+	0.5+	1999 04 06	704	0.3-	0.1-	2000 04 10	608	0.0	0.3-
1998 11 23	699	0.2+	0.2-	1999 04 06	704	0.7-	0.1+	2000 04 13	704	0.2+	0.1+
1998 12 11	303	0.1-	0.2+	1999 04 06	704	1.1-	0.4+	2000 04 13	704	0.5+	0.1+
1998 12 12	303	0.4+	0.2+	1999 04 06	704	1.6-	1.5-	2000 04 13	704	0.2+	0.2+
1998 12 13	303	0.4+	0.4+	1999 04 06	704	(2.2+	1.0+)	2000 04 13	704	0.4+	0.3+
1998 12 13	303	0.2+	0.4+	1999 05 08	704	1.7-	0.6-	2000 04 13	704	0.5+	0.2+
1998 12 14	691	0.3-	0.3-	1999 05 08	704	1.1+	1.0+				

(14667)* 1999 CS₁₉ = 1981 SU = 1986 RN₁₃ = 1991 PZ₂₀

Discovered 1999 Feb. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Gnädig (*MPC* 34541)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.88339		(2000.0)	P	Q
<i>n</i>	0.18969043	ω	6.25406	+0.77150390	+0.62456941
<i>a</i>	2.9998931	Ω	314.33670	-0.59082298	+0.63263886
<i>e</i>	0.0677003	<i>i</i>	9.75777	-0.23602953	+0.45790952
<i>P</i>	5.20	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

1981 09 25	801	(1.5+	5.2+)	1999 01 19	704	0.1+	0.1+	1999 03 13	691	0.3-	0.1+
1981 09 29	801	(4.5-	1.0+)	1999 01 19	704	0.3+	0.1-	1999 03 13	691	0.5-	0.0
1986 09 11	095	0.2+	1.7+	1999 02 10	704	0.0	0.8-	1999 03 13	691	0.5-	0.1-
1990 04 29	413	0.4+	0.5-	1999 02 10	704	0.4+	1.4-	2000 01 28	704	0.3+	0.1-
1990 04 29	413	1.3-	0.2-	1999 02 10	704	0.5-	0.1+	2000 01 28	704	0.2+	0.2+
1991 08 08	675	0.6-	0.5-	1999 02 10	704	0.5+	0.3-	2000 01 28	704	0.1-	0.1-
1991 08 08	675	0.3-	0.8-	1999 02 10	704	1.0-	1.2-	2000 01 28	704	0.9-	0.5-
1996 08 20	566	0.9+	0.5-	1999 02 11	699	0.2-	0.0	2000 03 14	704	0.0	0.3-
1996 08 20	566	0.4+	0.0	1999 02 11	699	0.6+	0.1+	2000 03 14	704	0.1+	0.1-
1996 08 20	566	0.6+	0.2-	1999 02 11	699	0.4+	0.5+	2000 03 14	704	0.1-	0.2+
1997 10 30	566	0.3-	1.1-	1999 02 13	704	0.8-	0.5+	2000 03 14	704	0.6-	0.8-
1997 10 30	566	0.3-	1.1-	1999 02 13	704	0.4+	0.9+	2000 03 14	704	0.9-	0.2+
1997 10 30	566	0.1-	1.1-	1999 02 13	704	0.2-	0.4+	2000 04 06	704	0.4-	0.5-
1998 11 18	699	0.1-	1.6+	1999 02 13	704	0.2-	0.3-	2000 04 06	704	0.5-	0.5-
1998 11 18	699	0.5+	1.0+	1999 02 13	704	0.5-	0.3-	2000 04 06	704	0.0	0.4-
1998 11 18	699	0.9-	0.4+	1999 02 23	699	0.8+	0.1+	2000 04 06	704	0.8+	1.5+
1999 01 19	704	1.4-	0.6-	1999 02 23	699	0.8+	0.1+				
1999 01 19	704	1.4+	0.7-	1999 02 23	699	1.7+	0.2-				

(14668)* 1999 CB₆₇ = 1955 SA = 1955 TA = 1989 YA₉

Discovered 1999 Feb. 12 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Gnädig (*MPC* 34546), G. V. Williams (d, *ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	239.39528		(2000.0)	P	Q
<i>n</i>	0.23612487	ω	85.22569	+0.93956606	+0.28340963
<i>a</i>	2.5924371	Ω	258.21585	-0.33562574	+0.87324057
<i>e</i>	0.2254415	<i>i</i>	11.31571	+0.06760899	+0.39639613
<i>P</i>	4.17	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

1955 09 17	012	1.2+	0.5+	1998 01 25	566	0.9+	0.3-	1999 02 23	699	1.6+	0.5+
1955 10 10	760	1.5-	0.8+	1998 01 25	566	0.0	0.1-	1999 02 23	699	1.4+	0.9+
1955 10 10	760	(35.4-	0.7-)	1998 01 25	566	1.0+	0.5-	1999 02 23	699	1.3+	0.9+
1983 05 10	413	0.4-	0.5+	1998 02 24	566	0.1+	0.7+	1999 05 07	704	1.3-	0.6-
1983 05 10	413	1.2-	0.1+	1998 02 24	566	0.1+	0.1+	1999 05 07	704	(2.4+	0.8-)
1989 12 31	399	1.3-	0.9+	1998 02 24	566	0.0	0.7+	1999 05 07	704	0.4-	1.2+
1989 12 31	399	0.6+	2.3-	1999 02 12	704	0.3-	0.5-	1999 05 07	704	1.0+	1.3-
1989 12 31	399	1.2-	1.5-	1999 02 12	704	0.1-	0.4-	2000 01 28	704	0.4-	0.7+
1993 12 05	046	0.4-	0.9+	1999 02 12	704	0.6+	0.4+	2000 01 28	704	0.1+	0.0
1993 12 05	046	0.4-	0.3+	1999 02 12	704	0.9-	1.2+	2000 01 28	704	0.6-	0.1-
1997 12 30	566	0.6-	1.1+	1999 02 12	704	0.4+	0.6+	2000 01 28	704	1.4-	0.8+
1997 12 30	566	0.5-	1.0+	1999 02 16	704	0.3-	0.6-	2000 03 30	704	0.6+	0.7-
1997 12 30	566	0.7-	1.0+	1999 02 16	704	0.1-	0.4-	2000 03 30	704	0.9+	1.0+

1998 01 25 566 0.1- 0.3- 1999 02 16 704 0.4+ 0.0 2000 03 30 704 0.6+ 1.0+
 1998 01 25 566 1.0+ 0.2- 1999 02 16 704 0.1- 0.9-
 1998 01 25 566 0.2- 0.4- 1999 02 16 704 0.5- 0.8-

(14669)* 1999 DC = 1972 TC₃ = 1976 GZ₆ = 1980 TD₈ = 1980 TX₂
 = 1991 BR₄

Discovered 1999 Feb. 16 by the OCA-DLR Asteroid Survey at Caussols.

Id. A. Doppler (*MPC* 34259), G. V. Williams (*ibid.*, *MPC* 34551)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	96.30926		(2000.0)	P	Q
<i>n</i>	0.12354577	ω	252.52404	+0.01991223	-0.99940288
<i>a</i>	3.9925539	Ω	196.41232	+0.95104018	+0.02764628
<i>e</i>	0.1214659	<i>i</i>	5.73574	+0.30842516	-0.02072588
<i>P</i>	7.98	<i>H</i>	11.4	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1972 10 05	095	1.1+	0.4-	1999 02 16	910	0.7+	0.4-	2000 04 05	704	0.3+	0.0
1976 04 04	095	(2.0-	3.0-)	1999 02 16	910	0.6+	0.5-	2000 04 05	704	0.1+	0.0
1980 10 10	095	1.4-	0.4+	1999 02 16	910	0.7+	0.4-	2000 04 05	704	0.2+	0.4+
1980 10 14	511	1.3+	1.9+	1999 02 16	704	0.1-	0.1+	2000 04 06	704	0.3+	0.2-
1980 10 14	511	0.1+	0.3+	1999 02 16	704	0.3-	0.0	2000 04 06	704	0.1-	0.0
1980 10 14	511	1.3-	1.2-	1999 02 16	704	0.2+	0.1-	2000 04 06	704	0.3+	0.1-
1991 01 22	675	(2.6-	1.2-)	1999 02 16	704	0.0	1.1+	2000 04 06	704	0.2+	0.0
1991 01 22	675	0.2+	0.6-	1999 02 16	704	0.2-	0.8+	2000 04 06	704	0.8-	0.1+
1992 04 05	691	0.3-	0.2+	1999 02 17	910	0.6+	0.7-	2000 04 07	704	0.4+	0.1-
1992 04 05	691	0.6-	0.0	1999 02 17	910	0.6+	0.6-	2000 04 07	704	0.1+	0.0
1992 04 05	691	0.5-	0.3+	1999 02 17	910	0.7+	0.7-	2000 04 07	704	0.2+	0.1-
1999 01 18	704	0.3-	0.8-	2000 01 05	699	0.1-	0.9+	2000 04 07	704	0.3-	0.4-
1999 01 18	704	0.0	0.2+	2000 01 05	699	0.4-	0.5+	2000 04 07	704	0.2-	0.4+
1999 01 18	704	1.5-	0.1-	2000 01 05	699	0.2+	0.1-	2000 04 08	704	0.0	0.2+
1999 01 18	704	0.1+	1.6+	2000 03 14	703	0.2+	0.5+	2000 04 08	704	0.1+	0.2-
1999 01 18	704	1.4-	0.2+	2000 03 14	703	0.0	0.4+	2000 04 08	704	0.2+	0.1+
1999 02 12	704	0.7+	0.2-	2000 03 14	703	0.2+	0.2-	2000 04 08	704	0.1-	0.0
1999 02 12	699	0.3+	0.0	2000 03 14	703	0.2-	0.2+	2000 04 08	704	0.3-	0.8-
1999 02 12	704	0.3+	0.1+	2000 04 04	699	0.4+	0.0	2000 04 10	704	0.1+	0.1+
1999 02 12	704	1.1-	0.9-	2000 04 04	699	0.3+	0.1+	2000 04 10	704	0.1+	0.4-
1999 02 12	699	0.3+	0.4+	2000 04 04	699	0.1-	0.1+	2000 04 10	704	0.0	0.1-
1999 02 12	704	0.8-	0.1-	2000 04 04	699	0.2+	0.1+	2000 04 10	704	0.2-	0.0
1999 02 12	699	0.5+	0.4+	2000 04 05	704	0.5+	0.2-				
1999 02 12	704	1.2-	1.1+	2000 04 05	704	0.0	0.2-				

(14670)* 1999 JG₅₃ = 1982 DJ₂

Discovered 1999 May 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Gnädig (*MPC* 39304)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	70.66014		(2000.0)	P	Q
<i>n</i>	0.24149470	ω	60.83504	-0.58127029	+0.81365148
<i>a</i>	2.5538633	Ω	173.59846	-0.77377618	-0.54897514
<i>e</i>	0.1510519	<i>i</i>	5.04458	-0.25178417	-0.19130488
<i>P</i>	4.08	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1982 02 21	046	1.6-	0.4+	1999 05 10	704	0.4+	1.8-	1999 05 19	704	0.2+	0.6-
1982 02 21	046	(2.7+	4.3-)	1999 05 10	704	(0.3+	2.2-)	1999 05 19	704	0.4-	0.0
1986 02 10	675	1.8+	0.3+	1999 05 10	704	(0.2-	3.1-)	1999 05 19	704	(2.2+	0.0)
1992 10 05	675	0.0	0.2-	1999 05 10	704	1.3-	0.5-	1999 06 05	106	0.4-	0.2-
1992 10 05	675	1.2+	1.0+	1999 05 12	699	0.1+	0.4+	1999 06 05	106	0.8+	0.4-
1993 11 21	675	0.4+	0.0	1999 05 12	699	0.3+	0.3+	1999 06 05	106	0.7+	0.4-
1993 11 21	675	1.0+	0.4+	1999 05 12	699	0.1+	0.4+	1999 06 06	703	0.0	0.0
1996 09 15	566	0.6-	1.0+	1999 05 13	704	0.0	0.2+	1999 06 06	703	0.2+	0.0
1996 09 15	566	0.8-	0.9+	1999 05 13	704	1.1+	0.2+	1999 06 06	703	0.7-	0.5-
1996 09 15	566	0.5-	1.0+	1999 05 13	704	0.2+	0.5+	1999 06 06	703	0.0	0.4-
1996 10 12	566	0.1+	0.9-	1999 05 13	704	0.7+	0.5+	1999 06 06	106	0.2+	0.3-
1996 10 12	566	0.1+	0.9-	1999 05 13	704	0.6-	0.0	1999 06 06	106	0.1-	0.4-

1996 10 12	566	0.3+	0.8-	1999 05 14	704	0.3+	0.1+	1999 06 06	106	0.6-	0.5-
1998 01 02	675	1.9-	0.7+	1999 05 14	704	0.1-	0.4+	1999 06 08	704	(2.1+	0.6+)
1998 01 02	675	0.6+	0.6-	1999 05 14	704	0.3+	0.8+	1999 06 08	704	0.0	1.5+
1999 02 23	704	0.3+	1.9-	1999 05 14	704	1.3+	0.5+	1999 06 08	704	0.1+	0.2-
1999 02 23	704	(0.5+	2.2-)	1999 05 14	704	0.7-	0.6+	1999 06 08	704	0.3-	0.7+
1999 02 23	704	0.5+	1.7-	1999 05 18	704	0.7+	0.3-	1999 06 08	704	1.8-	0.4-
1999 02 23	704	0.8-	0.4-	1999 05 18	704	0.3+	0.2-	1999 06 14	704	0.0	0.0
1999 03 29	699	0.0	1.0+	1999 05 18	704	0.4+	0.8+	1999 06 14	704	0.2-	0.2-
1999 03 29	699	0.2-	1.4+	1999 05 18	704	0.1+	0.6+	1999 06 14	704	0.3-	0.0
1999 03 29	699	0.5+	0.5+	1999 05 18	704	0.6-	0.0	1999 06 14	704	0.3-	0.6-
1999 05 10	704	0.5+	0.1-	1999 05 19	704	0.1-	0.6+	1999 06 14	704	0.6-	0.1-

(14671)* 1999 RM₄₉ = 1981 RF₆ = 1986 XU₂ = 1993 FW₂₁ = 1995 TH₇

Discovered 1999 Sept. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Doppler (*MPC* 39309), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	350.32927		(2000.0)	P	Q
<i>n</i>	0.21760180	ω	14.31643	+0.88433247	-0.46660429
<i>a</i>	2.7375437	Ω	13.52943	+0.42160783	+0.78403813
<i>e</i>	0.1693843	<i>i</i>	3.76918	+0.20050665	+0.40934661
<i>P</i>	4.53	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1981 09 01	675	1.1+	0.3-	1998 05 24	704	0.9-	0.9+	1999 09 11	704	0.3-	0.4+
1981 09 02	675	0.7+	0.8-	1998 05 24	704	0.4-	0.8+	1999 09 11	704	0.1-	0.9+
1986 12 03	010	(5.6-	1.5-)	1998 05 24	704	0.1-	1.1-	1999 09 11	704	0.1-	0.8+
1986 12 03	010	0.6-	0.1+	1998 05 24	704	0.2-	0.3-	1999 09 11	704	0.7-	1.0+
1986 12 03	010	2.3-	0.8+	1999 07 14	704	0.1+	0.3-	1999 10 15	704	0.2+	0.5+
1993 03 21	809	0.4+	1.2+	1999 07 14	704	0.5-	1.1-	1999 10 15	704	0.4+	0.4+
1993 03 22	809	1.4+	1.3+	1999 07 14	704	0.6+	0.8-	1999 10 15	704	0.0	0.6+
1993 03 26	809	0.5+	0.6+	1999 07 14	704	0.0	0.9-	1999 10 15	704	0.7+	0.4+
1993 03 27	809	0.5+	1.1+	1999 07 14	704	1.1+	0.2-	1999 11 06	703	1.0-	0.1-
1995 10 15	691	0.3+	0.1+	1999 08 13	703	0.1-	1.3-	1999 11 06	703	0.3+	0.1+
1995 10 15	691	0.2+	0.0	1999 08 13	703	1.1-	0.1+	1999 11 06	703	1.1-	0.4+
1995 10 15	691	0.2+	0.0	1999 08 13	703	(2.7-	0.5+)	1999 11 06	703	0.7-	1.2+
1995 10 22	691	0.4+	0.2+	1999 08 13	703	(3.3-	0.3+)	1999 11 10	704	1.0+	0.1-
1995 10 22	691	0.7+	0.0	1999 09 07	704	0.2-	0.8+	1999 11 10	704	0.2-	0.1-
1995 10 22	691	0.6+	0.1+	1999 09 07	704	0.3+	0.3+	1999 11 10	704	0.0	0.8-
1998 05 01	704	0.0	0.0	1999 09 07	704	0.1+	1.2+	1999 11 10	704	0.8-	1.1-
1998 05 01	704	0.4+	0.5-	1999 09 07	704	0.2-	1.1+	1999 11 10	704	0.3-	0.8-
1998 05 01	704	0.2+	0.8-	1999 09 07	704	0.1+	0.7+				
1998 05 01	704	(0.2-	2.2-)	1999 09 11	704	0.6-	0.7+				

(14672)* 1999 RO₉₄ = 1976 GG₇ = 1994 TV₂ = 1997 GV₃₄

Discovered 1999 Sept. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. A. Doppler (*MPC* 36828)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	221.52220		(2000.0)	P	Q
<i>n</i>	0.18677104	ω	151.09447	-0.98852123	-0.13507034
<i>a</i>	3.0310727	Ω	21.46243	+0.07615809	-0.83242904
<i>e</i>	0.0383782	<i>i</i>	10.66097	+0.13048266	-0.53741780
<i>P</i>	5.28	<i>H</i>	12.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1976 04 04	095	0.6-	0.7-	1999 09 14	704	0.4-	0.8+	1999 10 31	699	0.0	0.5+
1994 10 02	400	0.6+	0.3+	1999 09 14	704	0.2-	0.4+	1999 11 03	703	0.4-	0.4+
1994 10 02	400	1.4+	1.3+	1999 10 02	699	0.0	1.1+	1999 11 03	703	0.5-	0.2+
1994 10 03	400	1.1-	0.9+	1999 10 02	699	0.9-	1.3+	1999 11 03	703	0.2-	0.1+
1994 10 03	400	1.4-	0.3-	1999 10 02	704	0.1+	0.1+	1999 11 03	703	0.3-	0.4+
1997 03 12	809	1.9									

2000 APR. 18

M.P.C. 39897

1997 04 03	704	0.3+	0.2+	1999 10 02	704	0.0	0.4+	1999 11 07	704	0.5+	0.4-
1997 04 11	704	0.6-	0.3-	1999 10 07	703	0.6-	0.6+	1999 11 07	704	0.4+	0.2-
1997 04 11	704	1.3-	0.3+	1999 10 07	703	0.0	0.5+	1999 11 07	704	0.1+	1.3-
1999 08 22	699	0.9+	0.2-	1999 10 07	703	0.4-	0.3+	1999 11 07	704	0.0	0.5-
1999 08 22	699	0.5-	0.0	1999 10 07	703	0.1-	0.6+	1999 11 07	704	0.6-	1.6-
1999 08 22	699	0.2-	0.2-	1999 10 07	704	0.3-	0.3-	1999 11 07	704	0.1-	1.0-
1999 09 04	699	0.6+	0.0	1999 10 07	704	0.6-	0.2-	1999 11 12	704	(2.1+	2.1-)
1999 09 04	699	0.3+	0.3+	1999 10 07	704	0.3-	0.4-	1999 11 12	704	0.8+	0.1+
1999 09 04	699	0.6+	0.5+	1999 10 07	704	0.5-	0.2-	1999 11 12	704	1.3-	0.3-
1999 09 07	704	0.4+	0.1-	1999 10 07	704	0.3-	0.1-	1999 12 07	704	0.1+	0.0
1999 09 07	704	0.4+	0.4-	1999 10 15	704	0.3+	0.4-	1999 12 07	704	0.5+	0.6-
1999 09 07	704	0.3+	0.2-	1999 10 15	704	0.2+	0.2-	1999 12 07	704	0.6+	0.1-
1999 09 07	704	0.3+	0.6-	1999 10 15	704	0.2+	0.3-	1999 12 07	704	0.5+	1.1-
1999 09 07	704	0.4-	0.6-	1999 10 15	704	0.3+	0.0	1999 12 07	704	0.6+	0.7-
1999 09 14	704	0.0	0.6+	1999 10 15	704	0.5+	0.1+	1999 12 30	699	0.9-	0.0
1999 09 14	704	0.2-	0.6+	1999 10 31	699	0.6-	1.0+	1999 12 30	699	0.3-	1.5+
1999 09 14	704	1.0-	0.3+	1999 10 31	699	0.0	0.9+	1999 12 30	699	0.2-	1.0+

(14673)* 1999 RK₁₆₉ = 1978 WM₁₇ = 1996 BE₉ = 1997 HM₇

Discovered 1999 Sept. 9 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. A. Doppler (*MPC* 39313)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18027647	ω	237.21730	-0.45121173	-0.89115428		
<i>a</i>	3.1034400	Ω	239.67465	+0.83606350	-0.40352395		
<i>e</i>	0.1190422	<i>i</i>	3.15160	+0.31209903	-0.20739449		
<i>P</i>	5.47	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	0

Residuals in seconds of arc

1978 11 30	675	0.2-	0.2-	1997 04 30	704	0.0	1.6-	1999 09 09	704	0.0	0.4+
1978 12 01	675	0.2+	0.0	1997 05 01	704	0.1+	0.1+	1999 09 09	704	0.5-	0.1+
1996 01 20	691	0.0	0.3+	1997 05 01	704	0.3+	0.2+	1999 09 14	704	0.5-	0.5-
1996 01 20	691	0.0	0.1+	1997 05 01	704	0.2-	0.0	1999 09 14	704	0.3+	0.5+
1996 01 20	691	0.1-	0.3-	1997 05 01	704	0.2+	0.2-	1999 09 14	704	0.2-	0.2-
1996 01 21	691	0.1+	0.2-	1997 05 01	704	0.3+	0.4-	1999 09 14	704	0.3-	0.4+
1996 01 21	691	0.2+	0.0	1999 09 04	703	0.1-	0.0	1999 09 14	704	0.1+	0.1+
1996 01 21	691	0.2-	0.1-	1999 09 04	703	0.5+	0.3+	1999 10 13	704	0.5+	0.1+
1997 04 02	704	0.5+	0.6+	1999 09 04	703	0.1+	0.4+	1999 10 13	704	0.3+	0.4-
1997 04 02	704	0.5-	0.5+	1999 09 04	703	0.7-	1.0+	1999 10 13	704	0.5+	0.4-
1997 04 30	704	0.8-	0.1-	1999 09 07	704	(2.2+	0.0)	1999 10 13	704	0.3+	0.3-
1997 04 30	704	0.3-	0.1+	1999 09 07	704	0.3+	0.8-	1999 10 13	704	0.2+	0.3-
1997 04 30	704	0.1+	0.2+	1999 09 07	704	0.3-	0.5-				
1997 04 30	704	0.2+	0.2+	1999 09 09	704	0.2-	0.5-				

(14674)* 1999 UD₅ = 1993 FY₃₂ = 1997 ER₅₈ = 1998 MB₄₁

Discovered 1999 Oct. 29 by the Catalina Sky Survey.

Id. S. Nakano (*MPC* 37191), A. Doppler (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24614233	ω	27.49047	-0.08947404	-0.99479630		
<i>a</i>	2.5216135	Ω	67.67699	+0.90385717	-0.10165254		
<i>e</i>	0.1077514	<i>i</i>	3.01968	+0.41837377	+0.00686211		
<i>P</i>	4.00	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 19	809	1.0+	1.6+	1999 10 15	704	0.2-	1.0-	1999 11 17	704	0.1-	0.8-
1993 03 20	809	0.9+	1.8+	1999 10 15	704	0.2-	1.0-	1999 11 17	704	0.4+	0.7+
1993 03 24	809	0.1+	0.8+	1999 10 15	704	0.3-	0.9-	1999 11 17	704	0.6+	0.7-
1997 03 10	809	0.3-	0.2-	1999 10 15	704	0.4-	0.4-	1999 11 17	704	0.4+	0.6+
1997 03 10	809	0.2+	0.7-	1999 10 21	704	0.4-	0.4-	1999 12 04	703	0.5-	1.0+
1997 03 10	809	0.1-	0.3-	1999 10 21	704	0.3-	0.8-	1999 12 04	703	0.4-	0.4+
1997 03 11	809	0.9-	1.2-	1999 10 21	704	0.4-	1.1-	1999 12 04	703	0.5-	0.8+
1997 03 11	809	0.8-	1.4-	1999 10 21	704	0.4-	1.2-	1999 12 04	703	0.5-	1.0+
1997 03 11	809	0.5-	1.0-	1999 10 21	704	0.9-	0.9-	1999 12 06	704	0.1-	1.3+

1998 06 28	809	0.9-	0.8+	1999 10 29	703	0.3-	0.7-	1999 12 06	704	0.4-	0.1+
1998 06 28	809	1.2-	0.0	1999 10 29	703	1.2-	0.9+	1999 12 06	704	(0.9-	3.8-)
1998 06 28	809	1.6-	0.1+	1999 10 29	703	1.0-	0.2+	1999 12 07	704	0.1+	0.6+
1998 07 01	809	0.9+	1.6+	1999 10 29	703	0.6-	0.3+	1999 12 07	704	0.2+	0.7+
1998 07 01	809	0.9+	0.9+	1999 10 30	703	0.7-	0.1+	1999 12 07	704	0.1-	0.1+
1998 07 01	809	1.4+	1.0+	1999 10 30	703	1.0-	0.6+	1999 12 07	704	0.2-	0.5+
1999 10 02	703	0.2-	0.0	1999 10 30	703	0.6-	0.4+	1999 12 07	704	0.6-	0.1+
1999 10 02	703	0.3+	0.4+	1999 10 30	703	0.5-	0.3+	1999 12 12	703	0.7-	0.9+
1999 10 02	703	0.3+	0.3-	1999 11 09	704	0.7+	1.1+	1999 12 12	703	0.4-	0.8+
1999 10 02	703	0.1-	0.2+	1999 11 09	704	0.2+	1.6+	1999 12 12	703	0.5-	0.5+
1999 10 03	704	1.1+	0.4+	1999 11 09	704	0.5+	1.1+	1999 12 12	703	0.5-	1.3+
1999 10 03	704	0.9+	1.3-	1999 11 12	704	0.3-	0.4+	2000 01 04	704	0.5+	0.7+
1999 10 03	704	0.2+	0.3-	1999 11 12	704	0.0	0.4+	2000 01 04	704	0.3+	1.2+
1999 10 03	704	0.3+	0.9-	1999 11 12	704	0.1-	0.1+	2000 01 04	704	0.2+	0.7+
1999 10 10	704	1.0+	1.2-	1999 11 12	704	0.0	0.1+	2000 01 04	704	0.7-	0.1+
1999 10 10	704	1.3+	1.0-	1999 11 12	704	0.1-	0.0	2000 01 04	704	0.1+	0.4+
1999 10 10	704	1.1+	1.5-	1999 11 17	704	0.3+	0.5-	2000 01 07	704	0.1+	0.5+
1999 10 10	704	1.4+	1.7-	1999 11 17	704	0.3+	0.0	2000 01 07	704	0.1+	0.4-
1999 10 10	704	0.6+	1.2-	1999 11 17	704	0.1+	0.9-	2000 01 07	704	0.7-	0.2+
1999 10 10	699	1.3+	0.9-	1999 11 17	704	0.3+	0.1+	2000 01 07	704	0.1+	0.1-
1999 10 10	699	0.5+	0.6+	1999 11 17	704	0.4+	0.9-	2000 01 07	704	0.3-	0.1-
1999 10 10	699	0.1+	0.2-	1999 11 17	704	0.3+	0.2+				

(14675)* 1999 VS₇ = 1998 QS₆₄ = 5480 T-2

Discovered 1999 Nov. 7 by K. Korlević at Višnjan.

Id. S. Nakano (*MPC* 37201), G. V. Williams (*ibid.*), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23124759	ω	265.66082	-0.65602402	-0.73410401		
<i>a</i>	2.6287618	Ω	226.97130	+0.75190177	-0.61556548		
<i>e</i>	0.1038502	<i>i</i>	13.87355	+0.06539276	-0.28665388		
<i>P</i>	4.26	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1973 09 29	675	0.3-	0.5+	1999 11 04	704	0.3-	0.5-	1999 11 17	704	0.2-	0.6-
1973 09 29	675	2.0-	1.5-	1999 11 04	704	0.2+	0.4-	1999 11 17	704	0.2-	0.4-
1973 09 30	675	0.6-	1.4-	1999 11 05	691	0.3+	0.2-	1999 11 17	704	0.0	0.0
1973 09 30	675	0.3+	0.6-	1999 11 05	691	0.1+	0.3-	1999 11 28	120	0.2+	0.4-
1973 10 04	675	0.9+	0.9+	1999 11 05	691	0.1+	0.4-	1999 11 28	120	0.4+	0.2-
1973 10 04	675	0.7+	1.4-	1999 11 07	120	0.3-	0.4-	1999 11 29	120	1.7+	0.2-
1973 10 05	675	0.5+	0.2+	1999 11 08	120	0.7+	1.2+	1999 11 29	120	1.5-	1.0-
1973 10 05	675	1.0+	0.7+	1999 11 08	120	0.1-	0.2-	1999 11 29	120	1.1+	0.7+
1997 05 04	566	0.4+	0.8-	1999 11 08	120	0.1-	0.3+	1999 12 02	699	0.5+	0.3+
1997 05 04	566	0.1+	1.0-	1999 11 09	120	0.3-	0.2-	1999 12 02	699	0.3-	0.4+
1997 05 04	566	0.5-	0.4-	1999 11 09	120	0.2+	0.1-	1999 12 02	699	0.5+	0.4+
1998 08 24	704	1.5-	0.3+	1999 11 10	699	0.1-	0.0	1999 12 04	703	0.6+	0.1+
1998 08 24	704	0.3-	1.6+	1999 11 10	699	1.8-	1.1-	1999 12 04	703	0.7+	0.5+
1998 08 24	704	0.4+	0.0	1999 11 10	699	0.0	0.5+	1999 12 04	703	0.6-	0.1-
1998 08 24	704	1.7+	1.5+	1999 11 10	691	0.0	0.1-	1999 12 04	703	0.0	0.7+
1998 08 27	704	0.4-	1.6-	1999 11 10	691	0.0	0.2-	1999 12 06	704	0.9-	0.5+
1998 08 27	704	1.0+	0.5+	1999 11 10	691	0.0	0.1-	1999 12 06	704	0.1-	0.3+
1998 08 27	704	0.0	0.7-	1999 11 11	691	0.9-	0.1-	1999 12 06	704	0.5+	0.3+
1998 08 27	704	2.0-	0.7+	1999 11 11	691	0.8-	0.2-	1999 12 06	704	0.2+	0.6+
1998 08 27	704	0.3+	0.3+	1999 11 11	691	1.2-	0.0	1999 12 06	704	0.3+	1.0+
1999 10 15	704	0.1+	0.7-	1999 11 12	699	0.1-	0.2-	1999 12 14	704	(2.2-	1.5+)
1999 10 15	704	0.4+	1.1+	1999 11 12	699	0.1+	0.3+	1999 12 14	704	0.6-	0.8+
1999 10 15	704	0.2+	0.1+	1999 11 12	699	1.0+	0.6+	1999 12 14	704	0.5+	0.4-
1999 10 15	704	0.4+	0.0	1999 11 12	120	0.1+	0.1-	2000 01 06	699	0.4+	0.4+
1999 10 22	704	0.3+	0.0	1999 11 12	120	0.1-	0.0	2000 01 06	699	0.4+	0.5-
1999 10 22	704	0.5+	0.2+	1999 11 15	704	0.3-	0.2-	2000 01 06	699	1.2-	1.0+
1999 10 22	704	0.6+	0.2+	1999 11 15	704	0.6-	0.1-	2000 03 05	704	0.1+	0.7+
1999 10 22	704	0.1+	0.0	1999 11 15	704	0.3-	0.2+	2000 03 05	704	0.3-	0.7-
1999 10 22	704	0.0	0.3-	1999 11 15	704	0.5-	0.0	2000 03 05	704	1.7+	1.1-
1999 11 04	704	0.1+	0.6-	1999 11 15	704	0.5-	0.1+	2000 03 05	704	0.7+	0.9+
1999 11 04	704	0.2-	0.0	1999 11 17	704	0.2-	0.6-	2000 03 05	704	0.1+	1.3+
1999 11 04	704	0.1-	0.6-	1999 11 17	704	0.7-	0.8-				

(14676)* 1999 WW₇ = 1995 VE₁₉

Discovered 1999 Nov. 29 by K. Korlević at Višnjan.

Id. G. V. Williams (*MPC* 37850)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	42.77107		(2000.0)		P		Q
n	0.24345062	ω	153.49632		+0.41617700		-0.90910527
a	2.5401662	Ω	271.90566		+0.83102030		+0.38831994
e	0.1226359	i	1.03245		+0.36905549		+0.15078207
P	4.05	H	14.4	G	0.15	U	1

Residuals in seconds of arc

1995 11 15	327	0.0	0.2−	1999 10 12	704	0.7+	0.2+	2000 01 03	691	0.1−	0.0
1995 11 15	327	0.4−	0.8−	1999 10 12	704	0.6−	0.0	2000 01 03	691	0.0	0.1−
1995 11 18	327	0.1−	1.0−	1999 10 22	704	0.6+	0.4+	2000 01 03	691	0.0	0.0
1995 11 18	327	0.2−	0.4−	1999 10 22	704	0.0	0.1−	2000 01 03	704	1.3−	0.6+
1995 11 18	327	0.1+	0.4−	1999 10 22	704	0.9−	0.2−	2000 01 03	704	0.2−	0.4−
1997 04 11	704	0.2+	1.1+	1999 10 22	704	0.6+	0.9+	2000 01 03	704	0.1+	0.5−
1997 04 11	704	0.4+	1.0+	1999 10 22	704	0.6−	0.3+	2000 01 03	704	0.1+	0.5−
1997 05 01	704	0.1−	0.4+	1999 11 29	120	0.1+	0.3+	2000 01 03	704	0.1+	0.8−
1997 05 01	704	0.0	0.5+	1999 11 29	120	0.1+	0.4−	2000 01 08	691	(2.1+	1.1−)
1997 05 01	704	0.3+	0.0	1999 11 30	120	0.4+	0.3+	2000 01 08	691	0.3+	0.2−
1997 05 01	704	0.6−	0.3−	1999 11 30	120	0.4−	0.7+	2000 01 08	691	0.3+	0.0
1997 05 01	704	0.3+	1.0−	1999 12 05	120	(3.1+	1.4+)	2000 01 31	704	0.3+	0.3+
1998 08 17	704	0.4−	1.7+	1999 12 06	120	1.0−	0.7−	2000 01 31	704	0.2−	0.2+
1998 08 17	704	1.3−	0.7+	1999 12 07	704	0.8−	0.2−	2000 01 31	704	0.2+	0.1+
1998 08 17	704	0.1+	0.3+	1999 12 07	704	0.6+	1.4+	2000 01 31	704	0.0	0.9+
1998 08 17	704	0.6+	0.6+	1999 12 07	704	0.8−	0.3+	2000 02 02	704	0.0	1.3+
1998 08 17	704	0.5+	0.5+	1999 12 08	704	0.7+	0.3+	2000 02 02	704	0.1−	0.5+
1998 08 23	704	1.1−	1.1+	1999 12 08	704	0.2+	0.0	2000 02 02	704	0.1+	0.7+
1998 08 23	704	(3.2−	0.8−)	1999 12 08	704	0.3−	0.5+	2000 02 02	704	0.4+	0.4+
1998 08 23	704	0.1+	0.0	1999 12 08	704	0.3+	0.0	2000 02 02	704	0.1−	0.7+
1998 08 23	704	(0.6−	2.3+)	1999 12 08	704	0.4−	0.2−	2000 03 04	704	0.5−	0.2+
1998 08 23	704	(5.0−	0.5+)	1999 12 31	120	0.2+	0.1+	2000 03 04	704	0.7+	1.2+
1999 10 12	704	0.2+	0.8−	1999 12 31	120	0.2+	0.0	2000 03 04	704	1.7+	1.5+
1999 10 12	704	0.5+	0.4−	1999 12 31	120	0.1−	0.4−				
1999 10 12	704	0.2−	0.1+	1999 12 31	120	0.0	0.2−				

(14677)* 1999 XZ = 1982 BC₁₂ = 1988 XB₄ = 1993 DK₁

Discovered 1999 Dec. 2 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 37854)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	335.04523		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.26959840	ω	204.13440		−0.82914398		−0.55653859
a	2.3731463	Ω	301.94540		+0.52248893		−0.73790703
e	0.1535887	i	3.56567		+0.19881040		−0.38178268
P	3.66	H	14.1	G	0.15	U	2

Residuals in seconds of arc

1982 01 20	095	0.1−	1.1−	1999 10 15	704	0.1+	0.2+	2000 01 04	704	0.1+	0.2−
1988 12 01	054	0.4−	0.9+	1999 10 15	704	0.2−	0.2+	2000 01 04	704	0.1+	0.0
1993 02 19	511	1.3−	0.2−	1999 10 15	704	0.0	0.2+	2000 01 04	704	0.0	0.2+
1993 02 19	511	0.2+	1.1−	1999 11 16	704	1.1+	0.1−	2000 01 04	704	0.5+	0.3+
1993 02 19	511	(4.9−	0.2−)	1999 11 16	704	1.3+	0.1+	2000 01 04	704	0.2+	0.1−
1993 02 19	511	1.4+	0.7+	1999 11 16	704	0.6+	0.8+	2000 01 05	106	0.3+	0.2+
1993 02 24	511	0.8−	0.8+	1999 11 16	704	0.9−	0.2−	2000 01 05	106	1.2−	0.8−
1993 02 25	511	0.3+	0.5+	1999 12 02	411	0.2−	0.3+	2000 01 30	704	0.6+	1.3+
1998 08 17	704	0.3+	0.7−	1999 12 02	411	0.4−	0.4+	2000 01 30	704	0.6+	0.3+
1998 08 17	704	0.3+	0.1−	1999 12 03	411	0.6−	0.5−	2000 01 30	704	0.1+	0.1+
1998 08 17	704	0.1+	1.9−	1999 12 03	411	0.4−	0.4−	2000 01 30	704	0.5−	0.4+
1998 08 17	704	0.2−	0.5+	1999 12 10	704	0.3−	0.5−	2000 01 30	704	0.2−	0.2−
1998 08 17	704	0.1−	0.5−	1999 12 10	704	0.7+	0.7+	2000 01 31	704	0.1+	0.6+
1998 08 23	699	0.0	0.5−	1999 12 10	704	0.2−	0.2−	2000 01 31	704	0.9+	1.2+
1998 08 23	699	0.1+	0.2+	1999 12 10	704	0.2−	0.3−	2000 01 31	704	0.1+	1.6−
1998 08 23	699	0.1−	0.5+	1999 12 10	704	0.1−	0.2−	2000 02 11	704	0.4−	0.3+
1998 09 15	699	0.4−	0.5+	1999 12 11	411	0.1−	0.5−	2000 02 11	704	0.5+	0.3+

1998 09 15	699	0.4+	0.4+	1999 12 11	411	0.1+	0.3−	2000 02 11	704	0.4+	0.1+
1998 09 15	699	0.1+	1.0+	1999 12 26	411	0.8−	1.1−	2000 02 11	704	0.9−	0.0
1999 10 13	704	0.7−	0.3−	1999 12 26	411	0.5−	0.8−	2000 02 11	704	0.4+	0.9−
1999 10 13	704	1.1−	0.4+	2000 01 03	704	0.0	0.1+	2000 03 04	704	0.1−	0.1+
1999 10 13	704	0.4+	0.4+	2000 01 03	704	0.5+	0.2+	2000 03 04	704	0.1−	0.2+
1999 10 13	704	0.2−	0.4+	2000 01 03	704	0.0	0.5−	2000 03 04	704	0.2−	0.3−
1999 10 15	704	0.1−	0.1−	2000 01 03	704	0.5+	0.4+	2000 03 04	704	0.3+	0.1+
1999 10 15	704	0.3+	0.3+	2000 01 03	704	0.2+	0.4−				

(14678)* 1999 XN₃₃ = 1987 SE₃₀ = 1993 FW₇₁ = 1998 MU₂₃

Discovered 1999 Dec. 6 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 37881)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	80.89234		(2000.0)		P		Q
n	0.26106203	ω	120.78363		+0.79672117		−0.60348191
a	2.4246008	Ω	276.35539		+0.54276948		+0.73804100
e	0.1909900	i	1.86392		+0.26577561		+0.30183617
P	3.78	H	14.2	G	0.15	U	1

Residuals in seconds of arc

1987 09 26	095	1.0+	2.4−	1999 12 06	704	0.8+	0.1−	2000 01 31	704	0.7−	0.5+
1993 03 21	809	0.8−	0.8−	1999 12 06	704	0.9+	0.5−	2000 01 31	704	0.0	0.9+
1993 03 22	809	0.2+	1.2−	1999 12 06	704	0.1+	1.0−	2000 01 31	704	0.4−	1.2−
1998 06 25	691	1.5+	0.1+	1999 12 06	704	1.0+	0.9−	2000 01 31	704	0.2−	0.2−
1998 06 25	691	1.5+	0.4+	1999 12 07	704	0.5+	0.4−	2000 02 02	704	0.0	0.2+
1998 06 25	691	1.3+	0.1+	1999 12 07	704	0.1+	0.1+	2000 02 02	704	0.2−	0.5+
1998 06 30	691	0.8−	0.8+	1999 12 07	704	1.1+	0.1−	2000 02 02	704	0.2−	0.3+
1998 06 30	691	0.7−	0.6+	1999 12 07	704	0.7+	0.0	2000 02 02	704	0.3−	0.2+
1998 06 30	691	0.7−	0.5+	1999 12 07	704	1.3+	0.0	2000 02 02	704	0.5−	0.1+
1998 08 17	704	1.1+	0.3−	1999 12 09	691	0.3+	0.3+	2000 02 03	704	0.0	0.5+
1998 08 17	704	1.1−	0.1+	1999 12 09	691	0.5+	0.4+	2000 02 03	704	0.3−	0.5+
1998 08 17	704	0.4−	0.9+	1999 12 09	691	0.5+	0.3+	2000 02 03	704	0.3−	0.4+
1998 08 17	704	0.9−	1.4+	2000 01 05	704	0.0	0.1+	2000 02 03	704	0.6−	0.5+
1998 08 17	704	0.9−	1.2+	2000 01 05	704	0.5−	0.1−	2000 02 03	704	0.4−	0.4+
1998 08 23	704	1.9−	1.3+	2000 01 05	704	0.0	0.1+	2000 02 05	704	0.3−	0.4+
1998 08 23	704	0.2+	0.7−	2000 01 05	704	0.2+	0.1−	2000 02 05	704	0.4−	0.1−
1998 08 23	704	0.2+	1.6+	2000 01 05	704	0.1−	0.4−	2000 02 05	704	0.0	0.4−
1998 08 23	704	(3.1−	1.2+)	2000 01 06	106	0.5−	0.2+	2000 02 05	704	0.1+	0.3+
1999 10 21	704	0.9−	0.4+	2000 01 06	106	0.6−	0.6+	2000 02 05	704	0.4−	0.3−
1999 10 21	704	1.0−	1.1+	2000 01 06	106	1.3+	0.7+	2000 02 12	704	0.9+	0.0
1999 10 21	704	0.0	0.2+	2000 01 07	704	0.4−	0.3−	2000 02 12	704	0.5+	0.3−
1999 10 21	704	0.4−	0.7−	2000 01 07	704	0.2−	0.1−	2000 02 12	704	0.6+	0.7+
1999 11 05	703	0.9+	1.0+	2000 01 07	704	0.2−	0.2+	2000 02 12	704	0.0	0.5+
1999 11 05	703	1.0−	1.9+	2000 01 07	704	0.1−	0.1+	2000 02 26	703	0.1+	1.0+
1999 11 05	703	0.9−	0.9+	2000 01 07	704	0.3−	0.5+	2000 02 26	703	0.2+	0.4−
1999 11 05	703	1.4+	0.2−	2000 01 12	120	0.1+	0.6−	2000 02 26	703	0.2+	0.5−
1999 11 16	704	1.1+	0.7+	2000 01 12	120	0.2−	0.9−	2000 02 26	703	1.3−	0.0
1999 11 16	704	0.1−	0.7−	2000 01 12	120	0.7−	1.2−	2000 03 05	704	0.0	0.1+
1999 11 16	704	0.4+	0.6−	2000 01 12	120	0.1+	0.5−	2000 03 05	704	0.0	0.0
1999 11 16	704	1.5+	0.3−	2000 01 13	699	0.3+	0.7+	2000 03 05	704	0.1−	0.4+
1999 11 16	704	0.6+	0.9+	2000 01 13	699	0.5+	1.3+	2000 03 05	704	0.1−	0.4−
1999 12 06	704	0.6+	0.4−	2000 01 13	699	0.6+	0.3+	2000 03 05	704	0.7−	0.3+

2000 APR. 18

M.P.C. 39899

Residuals in seconds of arc

1991 07 12	809	1.2−	0.3−	1995 11 27	046	1.7+	0.0	1999 11 03	704	0.0	0.7−
1991 07 12	809	0.8−	0.2−	1995 11 27	046	1.3+	0.5+	1999 11 03	704	0.2+	1.8−
1991 07 12	809	0.5−	0.5−	1998 05 01	704	0.7+	1.0−	1999 11 03	704	0.3+	0.2−
1991 07 14	809	0.6+	0.5−	1998 05 01	704	0.7−	0.3+	1999 11 14	704	0.0	0.2−
1991 07 14	809	0.8+	0.5−	1998 05 01	704	0.5+	0.7+	1999 11 14	704	0.1+	0.1+
1991 07 14	809	1.2+	0.6−	1998 05 01	704	1.1−	0.2+	1999 11 14	704	0.2+	0.6−
1991 07 15	809	1.2−	0.1−	1998 05 24	704	0.2+	0.9+	1999 11 14	704	0.1+	0.9−
1991 07 15	809	0.5−	0.1+	1998 05 24	704	0.1−	0.1−	1999 11 14	704	0.1+	0.7−
1991 07 15	809	0.2−	0.0	1998 05 24	704	0.3+	1.1−	1999 11 16	704	0.1+	0.4−
1991 07 16	809	0.5+	0.3−	1998 05 24	704	0.7−	2.0−	1999 11 16	704	0.9+	0.3−
1991 07 16	809	0.7+	0.1+	1999 10 06	704	0.4+	0.1−	1999 11 16	704	0.7+	0.8−
1991 07 16	809	1.4+	0.1+	1999 10 06	704	1.1+	0.1+	1999 11 16	704	0.5+	0.3+
1995 11 26	046	0.8−	1.3+	1999 10 06	704	0.1−	0.4+	1999 11 16	704	0.1+	0.3−
1995 11 26	046	1.5−	1.5+	1999 10 06	704	0.3+	0.1−	1999 12 07	704	0.3−	0.3−
1995 11 26	046	1.3−	1.3+	1999 10 06	704	0.2−	0.1−	1999 12 07	704	0.0	0.0
1995 11 26	046	1.0−	1.1+	1999 10 12	704	0.8+	1.0−	1999 12 07	704	1.1−	0.2−
1995 11 26	046	1.3−	1.6+	1999 10 12	704	1.1+	0.0	1999 12 07	704	0.5−	0.3+
1995 11 26	046	1.6−	0.7+	1999 10 12	704	(2.8+	0.9−)	1999 12 08	704	1.3−	0.3−
1995 11 26	046	1.9−	1.3+	1999 10 22	704	(2.8−	1.3+)	1999 12 08	704	0.8−	0.9−
1995 11 27	046	1.2+	0.6−	1999 10 22	704	0.2−	0.6+	1999 12 08	704	0.6+	0.6+
1995 11 27	046	0.4+	0.6−	1999 10 22	704	0.4−	0.7−	1999 12 08	704	0.6+	0.1−
1995 11 27	046	0.8+	1.0−	1999 11 03	704	0.5−	1.2−				

(14680)* 1999 XV₁₀₄ = 1992 DS₁ = 1993 OD₇

Discovered 1999 Dec. 10 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38594)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	309.47558	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23768408	<i>ω</i>	66.52278	−0.98423753	+0.12327340		
<i>a</i>	2.5810871	<i>Ω</i>	120.34288	−0.15867223	−0.93218338		
<i>e</i>	0.1454353	<i>i</i>	8.44935	+0.07810003	−0.34034955		
<i>P</i>	4.15	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 02 27	033	0.9−	0.9+	1999 10 21	704	0.6−	0.4+	2000 01 05	704	0.6−	0.5−
1992 02 27	033	0.6+	0.1−	1999 11 17	704	1.3−	0.6+	2000 01 10	411	0.9+	0.5−
1992 02 28	033	0.4+	0.2−	1999 11 17	704	0.0	0.2+	2000 01 10	411	0.4+	1.6−
1993 07 20	809	1.0+	0.1+	1999 11 17	704	0.9−	1.0−	2000 01 31	411	1.9+	0.2−
1993 07 20	809	0.2−	0.5−	1999 11 17	704	0.4+	0.1−	2000 01 31	411	0.8+	0.1+
1993 07 20	809	0.9−	1.0−	1999 11 17	704	0.9+	0.6+	2000 02 02	704	0.2−	0.5+
1993 07 24	809	0.2−	0.1−	1999 12 06	704	(1.4+	2.4+)	2000 02 02	704	0.1−	0.1−
1996 04 24	327	0.9+	0.4−	1999 12 06	704	0.3+	1.8+	2000 02 02	704	0.2+	0.0
1996 04 24	327	0.1+	0.0	1999 12 06	704	0.3−	1.9+	2000 02 02	704	0.2+	0.2+
1996 04 24	327	0.0	0.2−	1999 12 10	411	1.2−	0.7−	2000 02 02	704	0.4+	0.1−
1998 09 21	699	0.9−	0.4+	1999 12 10	411	0.0	0.8−	2000 02 03	704	0.1+	0.0
1998 09 21	699	0.0	0.1+	1999 12 11	411	1.1−	0.2−	2000 02 03	704	0.2+	0.2−
1998 09 21	699	0.2−	1.4+	1999 12 11	411	0.4+	0.7+	2000 02 03	704	0.5−	0.4−
1998 10 18	699	0.2+	0.5−	1999 12 19	411	0.5−	0.4−	2000 02 03	704	0.3+	0.1+
1998 10 18	699	0.3−	0.6+	1999 12 19	411	0.5+	0.3−	2000 02 03	704	0.0	0.0
1998 10 18	699	1.7+	1.0−	2000 01 05	704	0.6−	0.3−	2000 04 02	704	0.4−	0.6+
1999 10 21	704	0.9−	0.7−	2000 01 05	704	0.5−	0.2−	2000 04 02	704	0.4+	0.1+
1999 10 21	704	0.0	0.0	2000 01 05	704	0.1−	0.5−	2000 04 02	704	0.8+	0.4+
1999 10 21	704	0.4−	0.2−	2000 01 05	704	0.8−	0.1−				

(14681)* 1999 XW₁₀₈ = 1998 MP₃₇

Discovered 1999 Dec. 4 by the Catalina Sky Survey.

Id. G. V. Williams (*MPC* 39329)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	105.49704	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18008610	<i>ω</i>	5.65799	+0.54360585	+0.83921497		
<i>a</i>	3.1056267	<i>Ω</i>	297.27226	−0.77071932	+0.49223585		
<i>e</i>	0.1689054	<i>i</i>	0.93620	−0.33239197	+0.23113220		
<i>P</i>	5.47	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 09 15	809	0.7+	1.6−	1998 08 17	704	0.2+	0.7+	1999 11 04	704	0.9+	1.2−
1993 09 15	809	0.9−	0.8−	1998 08 23	704	1.2−	0.6+	1999 11 04	704	1.5+	0.0
1993 09 15	809	(2.2−	1.3−)	1998 08 23	704	0.3+	1.6−	1999 11 14	704	0.4+	0.4+
1993 09 23	809	(2.5+	2.4+)	1998 08 23	704	1.2−	0.6−	1999 11 14	704	0.1+	0.2−
1993 09 23	809	(3.0+	0.5+)	1998 08 23	704	(7.8−	0.4+)	1999 11 14	704	0.2+	0.5−
1993 09 23	809	1.7+	0.9−	1999 10 06	704	0.0	0.2−	1999 11 14	704	0.1−	0.1−
1997 03 12	809	(0.6−	2.6−)	1999 10 06	704	0.1−	0.4−	1999 11 14	704	0.0	0.0
1997 03 12	809	0.1−	1.4−	1999 10 06	704	0.3−	0.5−	1999 11 16	704	1.0+	1.2+
1997 03 12	809	(0.4−	3.0−)	1999 10 06	704	0.2−	0.8−	1999 11 16	704	0.6−	0.9+
1997 04 11	704	0.3+	1.0+	1999 10 06	704	0.9−	0.6−	1999 11 16	704	1.0+	0.3+
1997 04 11	704	0.5−	1.0−	1999 10 12	704	0.1−	0.1−	1999 11 16	704	0.1−	0.5+
1997 04 11	704	0.0	1.3+	1999 10 12	704	0.0	0.6−	1999 11 16	704	0.4+	0.1−
1997 04 11	704	0.4+	0.0	1999 10 12	704	0.0	0.1−	1999 12 04	703	1.1−	0.4+
1998 06 24	699	0.9−	0.2+	1999 10 12	704	0.3−	0.3−	1999 12 04	703	0.1+	0.8+
1998 06 24	699	0.3−	1.1+	1999 10 12	704	0.4−	0.5−	1999 12 04	703	0.1−	1.1+
1998 06 24	699	1.6+	0.4+	1999 10 22	704	0.3−	0.5+	1999 12 04	703	0.6−	0.9+
1998 07 02	699	0.0	0.3+	1999 10 22	704	0.4+	0.4−	1999 12 07	704	0.5+	0.1−
1998 07 02	699	0.0	0.6+	1999 10 22	704	1.2−	0.8+	1999 12 07	704	0.2−	1.0−
1998 07 02	699	0.5−	0.3+	1999 10 22	704	0.1−	0.2+	1999 12 07	704	1.8−	1.3+
1998 07 24	566	0.4−	0.2+	1999 11 01	703	0.3−	0.5+	1999 12 07	704	0.3−	0.2+
1998 07 24	566	0.0	0.2+	1999 11 01	703	0.3−	0.4+	1999 12 07	704	0.2+	1.2+
1998 07 24	566	0.1−	0.2+	1999 11 01	703	0.3−	0.3+	1999 12 12	703	0.5−	1.1+
1998 08 17	704	0.5+	0.2+	1999 11 01	703	0.7−	0.5+	1999 12 12	703	0.2−	0.9+
1998 08 17	704	1.5+	0.1+	1999 11 04	704	1.0+	0.6−	1999 12 12	703	0.4+	1.0−
1998 08 17	704	0.2−	0.3+	1999 11 04	704	0.6+	0.2−	1999 12 12	703	0.2−	0.9−
1998 08 17	704	0.3−	0.2+	1999 11 04	704	0.6+	0.2−				

(14682)* 1999 XY₁₁₀ = 1995 WX₁₈ = 1997 JC₁₀

Discovered 1999 Dec. 5 by the Catalina Sky Survey.

Id. G. V. Williams (*MPC* 37937)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	304.91601	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.24586778	<i>ω</i>	318.33529	−0.83395274	−0.55171541		
<i>a</i>	2.5234903	<i>Ω</i>	188.20387	+0.52526050	−0.78721250		
<i>e</i>	0.1036086	<i>i</i>	4.63431	+0.16918696	−0.27551150		
<i>P</i>	4.01	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1995 11 17	691	0.0	0.4−	1999 10 10	704	0.7−	0.1−	1999 11 17	704	0.3+	1.4−
1995 11 17	691	0.2+	0.2−	1999 10 15	704	0.5+	0.1+	1999 11 17	704	0.5−	0.4−
1995 11 17	691	0.2+	0.3−	1999 10 15	704	0.2−	0.2+	1999 11 17	704	0.5+	1.0−
1995 11 22	691	0.3+	0.2−	1999 10 15	704	0.1+	0.1+	1999 11 17	704	0.3+	0.6−
1995 11 22	691	0.2−	0.3−	1999 10 15	704	0.2−	0.4−	1999 12 02	699	1.0+	0.4−
1995 11 22	691	0.2−	0.3−	1999 10 15	704	0.3−	0.3+	1999 12 02	699	0.3+	0.5+
1997 04 01	809	1.0−	1.3−	1999 10 15	691	0.2+	0.2−	1999 12 02	699	0.8+	0.5+
1997 04 01	809	1.4−	1.3−	1999 10 15	691	0.2+	0.2−	1999 12 05	703	0.0	1.5−
1997 04 01	809	1.6−	1.8−	1999 10 15	691	0.2+	0.1−	1999 12 05	703	0.1−	0.3+
1997 05 07	566	1.6−	1.2−	1999 10 19	691	0.1−	0.3−	1999 12 05	703	0.4−	0.1+
1997 05 07	566	0.3−	0.3+	1999 10 19	691	0.2−	0.4−	1999 12 05	703	0.2+	0.2+
1997 05 07	566	0.5−	0.9−	1999 10 19	691	0.2−	0.4−	1999 12 06	704	0.5+	0.7−
1997 05 10	540	0.8+	0.3+	1999 10 20	699	0.5+	0.1+	1999 12 06	704	0.3−	0.4−
1997 05 10	540	0.7+	0.3+	1999 10 20	699	(2.3−	1.5+)	1999 12 06	704	0.1−	0.6−
1997 05 10	540	1.1+	0.1+	1999 10 20	699	0.0	1.6+	1999 12 06	704	0.3−	0.1−
1997 05 11	540	0.6+	0.3+	1999 10 21	704	1.4+	0.6+	1999 12 06	704	0.5−	0.2−
1997 05 11	540	1.3+	0.4+	1999 10 21	704	0.6−	1.6+	1999 12 12	703	0.2−	0.0
1997 05 11	540	0.5+	0.1−	1999 10 21	704	1.1+	0.1+	1999 12 12	703	0.9−	0.3+
1998 08 17	704	1.6−	1.1−	1999 10 21	704	0.4+	1.0+	1999 12 12	703	0.9−	0.7+
1998 08 17	704	0.7−	0.7+	1999 11 04	704	0.8−	0.2+	1999 12 12	703	0.1+	0.2+
1998 08 17	704	0.4+	1.5−	1999 11 04	704	0.6−	0.2−	1999 12 14	704	0.2−	0.1−
1998 08 17	704	0.4−	0.4+	1999 11 04	704	0.5−	0.0	1999 12 14	704	0.4+	0.8−
1998 08 17	704	1.2+	1.8−	1999 11 04	704	0.8−	0.4−	1999 12 14	704	0.3+	0.9−
1998 09 14	699	0.2+	0.4−	1999 11 04	704	0.2−	0.1+	1999 12 14	704	0.5+	0.2+
1998 09 14	699	1.7+	0.2−	1999 11 15	704	0.2+	0.2−	1999 12 14	704	0.3−	0.8−
1998 09 14	699	0.5+	0.2+	1999 11 15	704	0.3+	0.0	2000 03 05	704	0.1−	0.4−
1999 10 10	704	0.3−	0.2−	1999 11 15	704	0.4+	0.3+	2000 03 05	704	0.3+	0.8+

1999 10 10 704 0.7− 0.2− 1999 11 15 704 0.3+ 0.2+ 2000 03 05 704 0.2+ 0.7+
 1999 10 10 704 0.2+ 0.3− 1999 11 15 704 0.7+ 0.6+ 2000 03 05 704 0.1+ 0.6−
 1999 10 10 704 0.2− 0.4+ 1999 11 17 704 0.7− 0.9− 2000 03 05 704 0.3+ 0.7+

(14683)* 1999 XG₁₅₆ = 1977 HL = 1981 QV = 1995 UQ₄₅ = 1998 MR₃₄

Discovered 1999 Dec. 8 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. M. E. Sansaturio (*MPC* 38600)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	186.50143	(2000.0)	
<i>n</i>	0.28707048	ω 50.79589	+0.05195433
<i>a</i>	2.2758503	Ω 222.29612	−0.94101464
<i>e</i>	0.1576781	<i>i</i> 5.00104	−0.33435339
<i>P</i>	3.43	<i>H</i> 14.5	<i>G</i> 0.15

Residuals in seconds of arc

1977 04 24	675	0.1−	1.5+	1998 06 26	704	0.8−	0.3+	1999 12 08	704	0.1−	0.9−
1977 04 25	675	0.6+	1.5+	1998 06 26	704	0.5+	0.7+	1999 12 14	704	1.1+	0.7+
1981 08 24	046	1.0+	0.5+	1998 06 26	704	0.0	1.3−	1999 12 14	704	0.1+	0.3+
1981 08 24	046	0.2−	0.9−	1998 06 26	704	0.5−	1.4+	1999 12 14	704	0.1+	1.0+
1995 10 20	010	(1.6+	2.8+)	1999 11 15	704	0.1+	0.1+	1999 12 14	704	0.0	1.3+
1995 10 20	010	(1.6+	2.6+)	1999 11 15	704	0.8−	0.9+	2000 01 05	704	0.0	0.0
1995 10 20	010	(1.8+	2.7+)	1999 11 15	704	0.2−	1.1+	2000 01 05	704	0.2+	0.4+
1995 10 23	010	0.1−	0.3+	1999 11 17	704	0.3−	0.3−	2000 01 05	704	0.1−	0.2−
1995 10 23	010	0.8−	0.3+	1999 11 17	704	0.4+	0.5−	2000 01 05	704	0.4−	0.1−
1995 10 23	010	1.4−	1.8+	1999 11 17	704	0.2−	0.6−	2000 01 05	704	0.2−	0.0
1998 06 24	704	1.2+	0.1−	1999 11 17	704	0.6−	0.5+	2000 01 06	704	1.9+	0.0
1998 06 24	704	0.2+	0.4−	1999 12 08	704	0.2+	0.3−	2000 01 06	704	0.0	0.1−
1998 06 24	704	0.7+	0.7+	1999 12 08	704	0.1−	0.2−	2000 01 06	704	0.1+	0.0
1998 06 24	704	0.9−	1.8−	1999 12 08	704	0.0	0.6−	2000 01 06	704	0.4−	0.1−
1998 06 24	704	0.4−	1.5+	1999 12 08	704	0.2−	0.6−				

(14684)* 1999 XQ₁₆₇ = 1966 PD₁ = 1977 SJ₂ = 1988 VS₁₃ = 1998 KB₁₅

Discovered 1999 Dec. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39332, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	87.69732	(2000.0)	
<i>n</i>	0.27309857	ω 336.43986	+0.95215040
<i>a</i>	2.3528258	Ω 5.77634	−0.27057059
<i>e</i>	0.2154361	<i>i</i> 3.26650	−0.14213085
<i>P</i>	3.61	<i>H</i> 14.7	<i>G</i> 0.15

Residuals in seconds of arc

1966 08 12	074	1.1+	0.3−	1998 05 22	704	(3.0−	2.6−)	1999 12 10	704	0.6+	0.5+
1966 08 12	074	0.5−	0.1+	1998 05 24	704	0.9+	0.9−	1999 12 10	704	0.2−	0.1+
1966 08 16	074	(13.4−	1.1−)	1998 05 24	704	1.2−	0.6−	1999 12 10	704	0.1−	1.0−
1977 09 19	095	0.9−	0.9+	1998 05 24	704	0.7+	0.4−	1999 12 15	704	0.1+	0.1+
1988 11 04	327	1.1−	0.7−	1998 05 24	704	0.8−	0.2−	1999 12 15	704	0.2+	0.1+
1988 11 04	327	0.2+	0.8+	1999 10 13	704	0.1+	1.8−	1999 12 15	704	0.2−	0.1+
1997 01 11	566	0.4+	0.3+	1999 10 13	704	(1.1+	2.4−)	1999 12 15	704	0.1+	0.1−
1997 01 11	566	0.0	0.0	1999 10 13	704	1.2+	1.7−	1999 12 15	704	0.0	0.4−
1997 01 11	566	1.6+	0.3+	1999 10 13	704	(2.7+	3.1−)	2000 01 03	704	(1.3+	2.0+)
1997 02 03	566	0.2+	0.4−	1999 10 13	704	(2.1+	1.6−)	2000 01 03	704	0.4+	0.2+
1997 02 03	566	0.6−	0.5−	1999 11 14	704	0.0	0.4−	2000 01 03	704	(0.7−	2.3+)
1997 02 03	566	0.8−	0.2−	1999 11 14	704	1.0−	0.4−	2000 01 03	704	1.5−	0.8+
1997 03 06	704	1.6−	0.1+	1999 11 14	704	0.0	0.2−	2000 01 04	704	0.3+	0.9+
1997 03 06	704	0.6+	1.0+	1999 11 14	704	0.2+	0.4−	2000 01 04	704	0.1+	0.4−
1998 05 01	704	1.0−	0.5−	1999 11 16	704	0.1+	0.4−	2000 01 04	704	0.4−	0.5+
1998 05 01	704	0.1+	0.5+	1999 11 16	704	0.7+	0.5−	2000 01 04	704	0.3+	0.7+
1998 05 01	704	0.6−	0.5+	1999 11 16	704	0.6−	0.9−	2000 01 04	704	0.5−	0.7+
1998 05 01	704	(2.1+	0.5+)	1999 11 16	704	0.1−	0.7−	2000 01 30	704	0.8+	0.6+
1998 05 22	704	0.3−	0.0	1999 11 16	704	0.0	0.6−	2000 01 30	704	0.9+	0.2−
1998 05 22	704	0.1−	0.8−	1999 12 10	704	0.1−	0.6+	2000 01 30	704	0.5+	0.6+
1998 05 22	704	1.2+	0.4−	1999 12 10	704	0.1+	0.3+	2000 01 30	704	0.6+	0.0

(14685)* 1999 XM₁₇₂

Discovered 1999 Dec. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	354.95791	(2000.0)	
<i>n</i>	0.18350253	ω 172.85014	−0.54058073
<i>a</i>	3.0669593	Ω 309.76538	+0.76262782
<i>e</i>	0.0678107	<i>i</i> 10.43318	+0.35520598
<i>P</i>	5.37	<i>H</i> 13.1	<i>G</i> 0.15

Residuals in seconds of arc

1987 08 24	675	0.1−	0.1+	1999 12 10	704	0.1+	0.2−	2000 01 07	704	0.1−	0.0
1987 08 24	675	0.7+	0.2+	1999 12 10	704	0.2−	0.2+	2000 01 07	704	0.0	0.3+
1993 09 21	675	0.2−	0.1+	1999 12 10	704	0.0	0.2+	2000 01 08	704	(2.3+	0.5+)
1993 09 21	675	0.1+	1.1−	1999 12 15	704	0.4−	0.5+	2000 01 08	704	1.2−	0.4−
1993 10 19	675	0.8−	0.3−	1999 12 15	704	0.5−	0.6+	2000 01 08	704	0.1+	0.2−
1993 10 19	675	0.4+	0.1+	1999 12 15	704	0.3−	0.8+	2000 01 08	704	0.1+	0.3−
1993 11 20	675	0.4−	0.7−	1999 12 15	704	0.0	0.5+	2000 01 08	704	0.1+	0.3−
1993 11 20	675	0.0	0.7+	1999 12 15	704	0.1−	0.6+	2000 01 30	704	0.7+	1.5+
1997 08 01	566	0.3−	0.7−	2000 01 03	704	0.4−	0.1−	2000 01 30	704	0.4+	0.0
1997 08 01	566	0.1−	0.3−	2000 01 03	704	0.0	0.0	2000 01 30	704	0.2+	0.1+
1997 08 01	566	0.2+	0.4+	2000 01 03	704	0.5+	0.8−	2000 01 30	704	0.1+	0.0
1998 10 12	699	0.1+	0.0	2000 01 03	704	0.4+	0.7−	2000 01 30	704	0.6+	0.8−
1998 10 12	699	0.0	0.2−	2000 01 03	704	0.1−	0.6−	2000 01 31	704	0.0	0.5+
1998 10 12	699	0.3+	0.0	2000 01 04	704	0.1+	0.3−	2000 01 31	704	0.0	0.3+
1998 11 14	703	0.2−	0.8+	2000 01 04	704	0.2+	0.8−	2000 01 31	704	0.5−	0.3+
1998 11 14	703	0.3−	0.3+	2000 01 04	704	0.6+	0.7−	2000 01 31	704	(2.5+	0.5+)
1999 12 03	699	0.2+	0.7+	2000 01 04	704	0.5+	0.7−	2000 01 31	704	0.0	1.5+
1999 12 03	699	0.1−	0.7+	2000 01 04	704	0.8+	1.9−	2000 02 11	704	0.1−	0.3+
1999 12 03	699	(2.7+	0.5+)	2000 01 07	704	0.1−	0.3−	2000 02 11	704	0.0	0.1−
1999 12 10	704	0.1−	0.4+	2000 01 07	704	0.2−	0.1−	2000 02 11	704	0.0	0.5−
1999 12 10	704	0.2+	0.4+	2000 01 07	704	0.1−	0.2−	2000 02 11	704	1.4−	0.5−

(14686)* 1999 XA₁₇₄ = 1976 JL₁ = 1983 EG₂ = 1991 RW₂₂

Discovered 1999 Dec. 10 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 37971)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams	
<i>M</i>	154.97303	(2000.0)	
<i>n</i>	0.27649508	ω 296.73158	+0.78469786
<i>a</i>	2.3335178	Ω 25.18404	−0.52132250
<i>e</i>	0.1305120	<i>i</i> 6.44964	−0.33536862
<i>P</i>	3.56	<i>H</i> 13.1	<i>G</i> 0.15

Residuals in seconds of arc

1976 05 02	095	0.2+	0.4+	1998 12 08	704	1.6−	1.5+	1999 12 15	704	0.6−	0.5+
1983 03 11	381	0.3−	0.6+	1998 12 08	704	(5.3−	0.8+)	1999 12 31	699	0.4+	0.5+
1983 03 11	381	0.5+	0.4−	1999 10 13	704	0.8+	0.4−	1999 12 31	699	0.3+	0.6+
1991 09 09	095	(3.9−	1.6−)	1999 10 13	704	0.2+	0.3−	1999 12 31	699	0.5+	0.5+
1991 09 09	095	(2.9+	2.0−)	1999 10 13	704	0.9−	1.9−	2000 01 02	704	0.4+	0.1−
1991 09 15	675	0.0	0.1+	1999 10 13	704	0.3−	1.4−	2000 01 02	704	0.2+	0.1−
1991 09 15	675	0.5+	0.1+	1999 11 12	703	0.2+	0.6+	2000 01 02	704	0.1+	0.6−
1991 09 15	095	(7.9+	2.6−)	1999 11 12	703	0.9+	0.7+	2000 01 02	704	0.1+	0.4−
1991 09 15	095	(6.8+	3.4−)	1999 11 12	703	0.5−	0.6+	2000 01 02	704	0.1+	0.4−
1991 09 17	675	0.5+	0.6−	1999 11 12	703	0.4+	0.3+	2000 01 29	704	0.3+	0.9+
1991 09 17	675	0.1+	0.4−	1999 12 10	704	0.3−	0.7−	2000 01 29	704	0.3+	0.5+
1991 09 17	095	0.8−	0.3−	1999 12 10	704	0.6+	0.5−	2000 01 29	704	0.1+	0.8+
1991 09 17	095	(2.8+	1.1−)	1999 12 10	704	0.2−	0.5−	2000 01 29	704	0.0	0.9+
1998 11 20	699	0.8+	0.4−	1999 12 10	704	0.4−	0.7−	2000 01 29	704	0.0	0.9+
1998 11 20	699	0.3−	0.5+	1999 12 1							

2000 APR. 18

M.P.C. 39901

(14687)* 1999 YR₁₃ = 1933 OG = 1979 HY = 1990 RK₁₈ = 1993 DL₁

Discovered 1999 Dec. 30 by K. Korlević and M. Jurić at Višnja.

Id. G. V. Williams (*MPC* 37989)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	270.17088		(2000.0)		P		Q
n	0.27610990	ω	332.36367		−0.25790829		+0.96469828
a	2.3356875	Ω	282.65028		−0.87605969		−0.25676066
e	0.2142652	i	3.13121		−0.40743434		−0.05857636
P	3.57	H	13.7	G	0.15	U	1

Residuals in seconds of arc

1933 07 24	024	0.9−	0.9+	1999 12 07	704	0.3−	0.4−	2000 02 02	704	0.1−	0.4+
1979 04 28	688	0.2+	1.3−	1999 12 07	704	0.2+	0.7−	2000 02 02	704	0.0	0.6+
1979 04 28	688	0.6+	1.1−	1999 12 07	704	0.1−	0.7−	2000 02 02	704	0.1+	0.6+
1990 09 09	413	1.1−	0.4−	1999 12 30	120	0.6+	0.2−	2000 02 02	704	0.0	0.8+
1990 09 11	413	(1.3−	2.3−)	1999 12 30	120	0.0	0.4−	2000 02 02	704	0.1+	1.0+
1993 02 19	511	(2.1−	0.1−)	1999 12 30	120	0.3−	0.1−	2000 02 04	704	0.2−	0.2+
1993 02 19	511	0.1−	1.2−	1999 12 30	120	0.5+	0.4−	2000 02 04	704	0.6+	0.3+
1993 02 19	511	1.6−	1.3−	1999 12 30	120	0.8+	0.1−	2000 02 04	704	0.2+	0.3+
1993 02 19	511	(3.1+	0.7−)	1999 12 31	120	0.2+	0.3−	2000 02 04	704	0.1+	0.3−
1993 02 20	511	(5.5+	4.1−)	1999 12 31	120	0.2−	0.2+	2000 02 05	704	0.3+	0.4+
1993 02 20	511	(1.3−	3.3−)	2000 01 01	120	0.6−	0.2+	2000 02 05	704	0.1+	0.5+
1993 02 21	511	(0.4−	3.3−)	2000 01 03	120	0.2+	0.9−	2000 02 05	704	0.0	0.9+
1993 02 22	511	(1.7−	3.2−)	2000 01 03	120	0.7−	0.1−	2000 02 06	704	0.1−	0.1+
1993 02 22	511	(0.5−	2.5−)	2000 01 05	704	0.0	0.3−	2000 02 06	704	0.4+	0.4+
1993 02 22	511	(3.0−	0.5+)	2000 01 05	704	0.4−	0.7−	2000 02 06	704	0.3+	0.7+
1993 02 24	511	1.0+	0.8+	2000 01 05	704	0.4−	0.2−	2000 02 06	704	0.6+	0.5+
1993 02 25	511	(3.3+	3.5+)	2000 01 05	704	0.3−	0.8−	2000 02 06	704	0.3+	0.5+
1993 02 25	511	0.0	0.3−	2000 01 05	704	0.5−	0.9−	2000 02 12	704	(0.1−	5.1+)
1993 02 25	511	(0.2+	2.9−)	2000 01 07	704	0.3−	0.1+	2000 02 12	704	(0.4−	6.0+)
1998 11 10	704	0.7+	0.0	2000 01 07	704	0.2−	0.6−	2000 02 12	704	(3.3+	3.2+)
1998 11 10	704	0.5+	0.7−	2000 01 07	704	0.3−	0.2−	2000 02 12	704	(3.9+	3.4+)
1998 11 10	704	0.6+	0.9+	2000 01 07	704	0.1−	0.6−	2000 02 26	703	(3.0−	0.7+)
1998 11 10	704	(5.5−	1.5−)	2000 01 07	704	0.4−	1.0−	2000 02 26	703	0.4+	1.0−
1998 11 11	704	0.2+	0.1−	2000 01 13	699	0.1+	0.7+	2000 02 26	703	0.0	0.6+
1998 11 11	704	0.0	1.5−	2000 01 13	699	0.4+	0.4+	2000 02 26	703	0.5−	0.1+
1998 11 11	704	0.1+	0.8−	2000 01 13	699	0.1+	0.3+	2000 03 05	704	0.1−	0.3+
1998 11 11	704	0.1+	0.7+	2000 01 16	120	1.3−	0.4−	2000 03 05	704	0.3−	0.4+
1999 11 17	704	(0.5+	2.0−)	2000 01 17	120	0.6−	0.1−	2000 03 05	704	0.3−	0.2−
1999 11 17	704	1.8+	0.4−	2000 01 30	703	0.3−	0.5+	2000 03 05	704	0.9−	0.3+
1999 11 17	704	0.7−	1.0−	2000 01 30	703	0.1−	0.2+	2000 03 05	704	0.4−	0.5+
1999 12 04	703	(2.6+	0.6+)	2000 01 30	703	0.2−	0.4+	2000 04 03	704	0.8−	0.6+
1999 12 04	703	1.5+	0.2+	2000 01 30	703	0.3−	0.3+	2000 04 03	704	1.0+	0.0
1999 12 04	703	1.1+	0.9+	2000 02 01	703	0.3−	0.4+	2000 04 03	704	0.1+	0.4−
1999 12 04	703	0.7−	0.4+	2000 02 01	703	0.1−	0.2+	2000 04 03	704	1.3+	0.2−
1999 12 07	704	0.6+	0.2+	2000 02 01	703	0.4−	0.3+				
1999 12 07	704	0.3+	0.2−	2000 02 01	703	0.1−	0.2+				

(14688)* 2000 AJ₂ = 1971 TO₂ = 1990 JH

Discovered 2000 Jan. 3 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38621)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	99.69057		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.25300669	ω	47.14446		+0.94567278		−0.30470936
a	2.4757952	Ω	330.06304		+0.18993025		+0.80080657
e	0.1165682	i	13.13196		+0.26387400		+0.51561714
P	3.90	H	13.7	G	0.15	U	2

Residuals in seconds of arc

1971 10 13	095	0.1+	0.1−	1999 12 15	704	0.2+	0.2−	2000 01 29	704	0.3+	1.6+
1990 05 03	413	1.1−	0.6+	1999 12 15	704	0.5+	0.4−	2000 02 11	704	0.5+	0.2+
1990 05 04	413	0.5+	0.3+	1999 12 15	704	0.4−	0.0	2000 02 11	704	0.0	0.3−
1998 08 17	704	0.2−	0.6+	2000 01 02	704	0.2−	0.0	2000 02 11	704	0.5+	0.4−
1998 08 17	704	0.1+	0.7+	2000 01 02	704	0.3−	0.1−	2000 02 11	704	1.6+	0.8−
1998 08 17	704	0.1−	0.8+	2000 01 02	704	0.4−	0.1−	2000 02 11	704	0.2+	0.6−

1998 08 17	704	0.4+	1.1+	2000 01 02	704	0.2−	0.0	2000 03 01	411	0.6+	1.4−
1998 08 17	704	0.3−	1.8−	2000 01 02	704	0.5−	0.0	2000 03 01	411	1.2−	0.6−
1998 09 21	699	0.1−	0.9−	2000 01 03	411	0.4−	0.2+	2000 03 04	704	0.3−	1.0+
1998 09 21	699	0.1+	0.1+	2000 01 03	411	0.3−	0.2−	2000 03 04	704	0.8−	0.1+
1998 09 21	699	0.1+	0.0	2000 01 04	411	0.7+	1.1−	2000 03 04	704	0.5−	0.1+
1998 10 20	699	0.2−	0.1+	2000 01 04	411	0.2+	0.3−	2000 03 04	704	0.6−	0.2−
1998 10 20	699	0.4−	0.3+	2000 01 10	411	0.4−	1.0−	2000 03 04	704	0.2−	0.0
1998 10 20	699	0.4−	0.1+	2000 01 10	411	0.4−	1.3−	2000 04 02	704	0.1−	0.3+
1999 11 17	703	0.3+	0.9+	2000 01 28	411	0.3−	0.3−	2000 04 02	704	0.4−	0.1+
1999 11 17	703	0.5−	0.3+	2000 01 28	411	0.7−	0.0	2000 04 02	704	0.5+	0.5+
1999 11 17	703	0.1+	0.1+	2000 01 29	704	0.3+	0.9+	2000 04 02	704	0.3+	0.9+
1999 11 17	703	0.4−	1.4+	2000 01 29	704	0.4+	0.6+	2000 04 02	704	0.7+	1.1+
1999 12 15	704	1.7+	0.2−	2000 01 29	704	0.2+	1.1+				
1999 12 15	704	0.6+	0.4−	2000 01 29	704	0.1+	1.4+				

(14689)* 2000 AM₂ = 1973 UE₁ = 1989 CM₄ = 1991 RL₃₅

Discovered 2000 Jan. 3 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 38622)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

M	88.61881		(2000.0)		P		Q	
n	0.27144481	ω	0.90350		+0.79176575		−0.60815080	
a	2.3623724	Ω	36.74970		+0.55982062		+0.68508537	
e	0.1033790	i	5.47560		+0.24435192		+0.40101202	
P	3.63	H	14.0		G	0.15	U	1

Residuals in seconds of arc

1973 10 26	095	1.1−	0.8+	1998 12 08	704	0.5+	0.2+	2000 01 10	411	0.5−	0.6+
1989 02 01	033	0.4+	0.1+	1998 12 08	704	(4.9−	0.5+)	2000 01 10	411	0.1−	0.6+
1989 02 01	033	0.8+	1.8−	1999 10 22	704	0.3−	0.0	2000 01 28	411	1.0−	0.1−
1989 02 02	033	0.5−	0.1+	1999 10 22	704	0.1+	0.4+	2000 01 28	411	0.6−	0.5−
1989 02 02	033	1.0+	0.1+	1999 10 22	704	0.3−	0.1+	2000 03 01	411	1.0−	0.6+
1991 09 13	675	0.3−	0.5−	1999 10 22	704	0.1−	1.5−	2000 03 01	411	0.2+	0.1+
1991 09 13	675	0.2−	0.5−	1999 12 08	704	0.3+	0.4−	2000 03 02	703	1.5−	0.4+
1991 09 16	675	0.4−	0.8−	1999 12 08	704	0.2+	0.6+	2000 03 02	703	0.1+	0.6+
1991 09 16	675	0.2+	0.1−	1999 12 08	704	0.0	0.3−	2000 03 02	703	0.3+	0.6+
1991 10 07	675	1.0+	1.5+	1999 12 08	704	1.5+	1.0+	2000 03 02	703	0.8−	0.1+
1991 10 07	675	0.5+	0.8−	2000 01 03	704	0.8−	0.3+	2000 03 04	704	(2.7+	0.2−)
1998 08 21	566	1.3−	0.4+	2000 01 03	704	0.3−	0.2−	2000 03 04	704	2.1+	0.0
1998 08 21	566	1.0−	0.3+	2000 01 03	704	0.2−	0.3+	2000 03 04	704	1.8+	0.5−
1998 08 21	566	0.8−	0.5+	2000 01 03	704	0.2−	0.4+	2000 03 04	704	1.0+	0.4−
1998 09 14	699	1.2+	0.6+	2000 01 03	704	0.3−	0.8+	2000 04 02	704	1.3−	0.6+
1998 09 14	699	0.5+	0.1−	2000 01 03	411	1.6−	1.6−	2000 04 02	704	0.1+	0.4−
1998 09 14	699	0.9+	0.0	2000 01 03	411	0.4+	0.4−	2000 04 02	704	0.6+	0.5+
1998 12 08	704	0.3−	0.9+	2000 01 04	411	0.8+	0.2−	2000 04 02	704	0.9+	0.1−
1998 12 08	704	(0.1−	2.4+)	2000 01 04	411	0.8−	0.6+	2000 04 02	704	0.9+	0.7+

(14690)* 2000 AR₂₅ = 1986 WA₁₁ = 1998 XQ₆₇

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38628)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	96.04929		(2000.0)		P		Q
<i>n</i>	0.08356146	ω	7.70191		+0.98720291		−0.15945660
<i>a</i>	5.1816179	Ω	1.47793		+0.14185755		+0.872369

1998 12 14	704	0.5-	0.3-	1999 10 13	704	0.6+	0.2+	2000 01 30	704	0.0	0.3+
1998 12 14	704	0.1-	0.5+	1999 12 10	704	0.4+	0.1-	2000 01 30	704	0.6-	0.1-
1998 12 14	704	0.4+	0.0	1999 12 10	704	0.4+	1.1+	2000 01 30	704	0.5-	0.1+
1998 12 14	704	(0.5-	2.2+)	1999 12 10	704	1.2+	0.1-	2000 01 30	704	0.9-	0.1-
1998 12 14	704	(2.3-	1.8+)	1999 12 10	704	1.0+	0.3+	2000 01 31	704	0.2+	0.5+
1998 12 17	704	0.1+	1.0-	1999 12 10	704	0.5+	0.4+	2000 01 31	704	0.3+	0.6-
1998 12 17	704	(0.4+	2.4-)	1999 12 15	704	0.3+	0.5-	2000 01 31	704	0.4-	0.0
1998 12 17	704	1.4+	0.7+	1999 12 15	704	0.5-	0.2+	2000 01 31	704	0.2+	0.1-
1998 12 17	704	(1.5-	2.2-)	1999 12 15	704	0.1-	0.2+	2000 04 02	704	0.9+	0.1+
1998 12 17	704	0.3-	1.9-	1999 12 15	704	0.3-	0.3+	2000 04 02	704	0.7-	0.4+
1999 09 18	703	0.5+	0.1-	1999 12 15	704	0.4-	0.4+	2000 04 02	704	0.4-	0.2+
1999 09 18	703	0.5-	0.5+	2000 01 03	704	0.1+	0.8-	2000 04 02	704	1.7+	1.5-
1999 09 18	703	0.5-	1.4+	2000 01 03	704	0.4+	0.6-	2000 04 02	704	0.1-	0.8-
1999 09 18	703	0.0	0.6+	2000 01 03	704	0.4-	0.4-				
1999 10 08	703	0.5-	1.1+	2000 01 03	704	0.5+	0.6+				

(14691)* 2000 AK₁₁₉ = 1955 QD = 1959 NE = 1973 YX₁ = 1988 HN
= 1989 RW₃ = 1993 MQ = 1999 AJ₆

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38671), M. E. Sansaturio (*MPC* 39346)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	204.58961		(2000.0)	P	Q
n	0.23301017	ω	20.30050	+0.34615354	+0.91407278
a	2.6154884	Ω	270.43090	-0.88729118	+0.24579835
e	0.1506629	i	12.19903	-0.30478203	+0.32257421
P	4.23	H	12.2	G 0.15	U 1

Residuals in seconds of arc

1955 08 20	760	0.5-	0.3+	1999 01 08	704	(2.4+	1.5-)	1999 12 14	704	0.8+	0.7+
1955 08 20	760	0.5-	0.7+	1999 01 11	704	0.8-	1.3-	1999 12 14	704	0.1+	1.2-
1959 07 08	760	(0.5-	2.6+)	1999 01 11	704	0.6+	0.8-	1999 12 14	704	0.5+	1.8-
1973 12 20	095	(1.8+	3.0+)	1999 01 11	704	1.1-	1.8-	1999 12 14	704	(2.6-	0.8-)
1973 12 21	095	2.2+	1.8-	1999 01 11	704	(0.3-	2.4-)	2000 01 05	704	0.1-	0.4-
1988 04 19	413	0.2+	0.4+	1999 10 10	704	0.3+	0.3-	2000 01 05	704	0.1-	0.6-
1988 04 19	413	0.1+	0.9-	1999 10 10	704	0.2-	0.0	2000 01 05	704	0.5-	0.4-
1989 09 04	095	1.5-	1.4-	1999 10 10	704	0.2+	0.4+	2000 01 05	704	0.3+	1.2+
1989 09 04	095	0.5-	0.7+	1999 10 10	704	0.0	0.3+	2000 01 05	704	1.5-	0.5+
1993 06 18	675	1.4+	0.3+	1999 10 10	704	0.2-	0.5+	2000 01 07	704	0.2+	0.3-
1993 06 20	675	0.4+	0.4+	1999 10 21	704	0.1+	0.2+	2000 01 07	704	0.1-	0.0
1998 10 01	699	0.5-	0.2+	1999 10 21	704	0.0	0.3+	2000 01 07	704	0.1+	0.1-
1998 10 01	699	0.4-	0.0	1999 10 21	704	0.0	0.2+	2000 01 07	704	0.1-	1.5-
1998 10 01	699	0.3-	0.5+	1999 10 21	704	0.3-	0.5+	2000 01 07	704	0.4-	0.3-
1998 11 14	704	0.4+	0.2-	1999 10 21	704	0.5-	0.4+	2000 02 04	704	0.2+	0.1-
1998 11 14	704	0.2+	0.5-	1999 11 08	703	0.5-	0.0	2000 02 04	704	0.3-	0.1+
1998 11 14	704	0.4-	0.9+	1999 11 08	703	0.2+	0.1+	2000 02 04	704	0.2-	1.0+
1998 11 14	704	0.0	0.2+	1999 11 08	703	0.2+	0.1+	2000 02 04	704	0.1+	0.4+
1998 11 14	704	0.5-	1.4+	1999 11 08	703	0.4-	0.3-	2000 02 04	704	0.0	0.5+
1998 11 16	704	0.4+	0.8-	1999 11 10	699	0.1+	0.0	2000 02 13	704	1.1+	1.0+
1998 11 16	704	0.0	0.4+	1999 11 10	699	0.1-	0.2+	2000 02 13	704	(1.2+	3.5+)
1998 11 16	704	0.4-	0.4-	1999 11 10	699	0.1-	0.6+	2000 02 13	704	0.7-	0.1-
1998 11 16	704	0.4+	1.1+	1999 11 17	704	0.5-	0.6+	2000 03 06	704	0.9+	0.5-
1998 11 16	704	0.0	0.3+	1999 11 17	704	0.4-	0.6+	2000 03 06	704	0.6-	1.1-
1998 12 09	704	0.9+	1.3+	1999 11 17	704	0.4+	1.5+	2000 03 06	704	0.9-	0.0
1998 12 09	704	(2.3-	2.5+)	1999 11 17	704	0.1+	0.5+	2000 03 06	704	1.3-	0.4+
1998 12 09	704	0.9+	0.8+	1999 11 17	704	0.1-	0.1+	2000 04 03	704	0.2-	0.2-
1998 12 09	704	1.0+	0.3-	1999 12 06	704	0.5+	0.5+	2000 04 03	704	0.2-	0.0
1998 12 09	704	(1.6-	2.6-)	1999 12 06	704	1.5+	0.4+	2000 04 03	704	0.2-	0.8+
1999 01 08	704	1.5-	0.5-	1999 12 06	704	0.2+	0.0	2000 04 03	704	0.4-	0.8+
1999 01 08	704	0.4+	0.6-	1999 12 06	704	1.1+	0.2-	2000 04 03	704	0.2+	2.0+
1999 01 08	704	(0.4-	2.6-)	1999 12 06	704	0.9-	1.7-				
1999 01 08	704	1.3+	0.6-	1999 12 14	704	1.0+	0.7+				

(14692)* 2000 AG₁₃₃ = 1974 DB₁ = 1982 SD₁₀ = 1982 SV₁₂
= 1987 SM₂₂ = 1990 EK₈

Discovered 2000 Jan. 3 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 38685)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	31.98825		(2000.0)	P	Q
n	0.18900751	ω	110.56257	-0.24292348	-0.96985528
a	3.0071148	Ω	353.40712	+0.81601622	-0.19360465
e	0.0524544	i	9.63027	+0.52450520	-0.14797964
P	5.21	H	12.2	G 0.15	U 1

Residuals in seconds of arc

1974 02 16	095	1.2-	0.9-	2000 01 08	704	0.1-	0.2-	2000 02 26	628	0.3-	0.3-
1982 09 24	095	1.7+	0.0	2000 01 08	704	0.1+	0.2-	2000 02 26	628	0.5-	0.0
1982 09 27	095	(4.1+	1.1+)	2000 01 08	704	0.1-	0.5-	2000 02 26	628	0.1-	0.6+
1987 09 20	095	1.9-	0.7+	2000 01 08	704	0.2-	0.5-	2000 02 27	106	0.6+	0.0
1990 03 05	809	0.7+	0.4-	2000 01 08	704	0.0	0.5-	2000 02 27	106	0.7+	0.0
1990 03 05	809	0.7+	0.4-	2000 01 31	704	0.2+	0.2-	2000 02 27	106	0.1+	0.4+
1990 03 05	809	1.0+	0.2-	2000 01 31	704	0.2-	0.1+	2000 03 04	704	(2.1+	0.8+)
1990 03 06	809	0.9-	0.1-	2000 01 31	704	0.1+	0.3-	2000 03 04	704	(2.1+	0.9+)
1990 03 06	809	0.6-	0.2-	2000 01 31	704	0.4-	0.8-	2000 03 04	704	1.5+	0.7+
1990 03 06	809	0.7-	0.1+	2000 02 08	704	0.2+	0.5+	2000 03 12	699	0.2-	0.2-
1997 09 02	566	0.3-	0.7+	2000 02 08	704	0.0	0.4+	2000 03 12	699	0.2-	0.0
1997 09 02	566	0.7-	0.7+	2000 02 08	704	0.2-	0.7+	2000 03 12	699	0.1-	0.1-
1997 09 02	566	0.4-	0.8+	2000 02 08	704	0.3-	0.9+	2000 03 12	699	0.1-	0.1-
1999 01 14	699	0.1+	0.1-	2000 02 08	704	0.3-	1.0+	2000 04 02	704	0.0	0.7+
1999 01 14	699	0.0	0.2+	2000 02 10	704	0.2+	0.1+	2000 04 02	704	0.3+	0.6+
1999 01 14	699	0.1+	0.2-	2000 02 10	704	0.1+	0.6+	2000 04 02	704	0.7+	0.7+
1999 10 20	699	0.5-	0.2-	2000 02 10	704	0.0	0.8+	2000 04 02	704	0.1-	0.2+
1999 10 20	699	0.1-	0.1+	2000 02 10	704	0.1-	1.0+	2000 04 02	704	0.3+	0.4-
1999 10 20	699	0.1-	0.3+	2000 02 10	704	0.2-	1.0+	2000 04 10	704	0.3+	0.2+
2000 01 03	704	0.4+	0.7-	2000 02 13	704	0.2+	0.1+	2000 04 10	704	0.4+	0.1-
2000 01 03	704	0.3+	0.5-	2000 02 13	704	0.2+	0.4+	2000 04 10	704	0.3+	0.1-
2000 01 03	704	0.3+	0.8-	2000 02 13	704	0.3-	0.8+	2000 04 10	704	0.1+	0.3+
2000 01 03	704	0.0	0.5-	2000 02 13	704	0.2-	0.1+				
2000 01 03	704	0.4-	0.4-	2000 02 26	628	0.2-	0.4-				

(14693)* 2000 AH₁₄₄ = 1975 GV = 1998 XG₁₀ = 2000 CF₅₃

Discovered 2000 Jan. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39349)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	300.19024		(2000.0)	P	Q		
n	0.27360462	ω	43.15867	-0.48875896	+0.87236623		
a	2.3499237	Ω	197.58911	-0.80881030	-0.45721364		
e	0.1973975	i	1.81741	-0.32701771	-0.17301115		
P	3.60	H	14.3	G	0.15	U	1

Residuals in seconds of arc

1975 04 15	805	1.1-	1.0+	2000 01 06	699	0.2+	0.7+	2000 02 29	704	0.1-	0.2-
1975 04 20	805	1.2+	0.7-	2000 01 06	699	0.5+	0.5+	2000 02 29	704	0.4+	0.1+
1997 08 03	566	0.3-	1.1+	2000 01 06	699	0.3+	0.6+	2000 02 29	704	0.0	0.0
1997 08 03	566	0.3-	1.8+	2000 01 08	704	0.2-	0.2-	2000 03 03	704	0.4-	0.1-
1997 08 03	566	0.4-	1.3+	2000 01 08	704	0.2-	0.4+	2000 03 03	704	0.6-	0.1+
1998 11 18	704	0.5+	1.1-	2000 01 08	704	0.7+	0.6-	2000 03 03	704	0.6-	0.0
1998 11 18	704	0.7-	1.3-	2000 01 08	704	0.5-	1.4+	2000 03 03	704	0.3-	0.5+
1998 11 18	704	0.9-	1.1+	2000 01 08	704	0.5+	0.4-	2000 03 11	704	0.0	0.6-
1998 11 18	704	(7.6-	1.3+)	2000 02 02	704	0.1-	0.6+	2000 03 11	704	0.2+	0.5-
1998 12 08	910	0.3+	0.6+	2000 02 02	704	0.0	0.6+	2000 03 11	704	0.1+	0.5-
1998 12 08	910	0.3+	0.7+	2000 02 02	704	0.1+	0.9+	2000 03 11	704	0.3+	0.6-
1998 12 08	910	0.4+	0.1+	2000 02 02	704	0.1+	0.6+	2000 03 11	704	0.1+	0.6-
1998 12 15	910	0.0	1.0+	2000 02 02	704	0.1+	0.8+	2000 04 03	704	0.9+	0.1-
1998 12 15	910	0.1-	1.1+	2000 02 02	691	0.5-	0.4-	2000 04 03	704	0.3+	0.1+

2000 APR. 18

M.P.C. 39903

1998 12 15	910	0.1–	1.1+	2000 02 02	691	0.4–	0.5–	2000 04 03	704	0.0	0.9+
1999 12 05	699	0.8–	1.4+	2000 02 02	691	0.4–	0.4–	2000 04 03	704	0.2–	0.1+
1999 12 05	699	0.4–	0.8+	2000 02 06	704	0.3+	0.1+	2000 04 03	704	0.4–	0.2–
1999 12 05	699	1.4–	0.2+	2000 02 06	704	0.0	0.1+	2000 04 08	704	1.1+	0.4–
2000 01 05	704	0.2–	0.2+	2000 02 06	704	0.3+	0.1–	2000 04 08	704	1.6+	0.4+
2000 01 05	704	0.4+	0.5+	2000 02 06	704	0.1+	0.2–	2000 04 08	704	0.8+	0.4+
2000 01 05	704	1.0–	0.3–	2000 02 29	704	0.4+	0.1+	2000 04 08	704	0.5+	0.2+
2000 01 05	704	0.3–	0.1–	2000 02 29	704	0.6–	0.5–	2000 04 08	704	0.0	0.2+

(14694)* 2000 AR₁₄₅ = 1981 UQ₁ = 1995 WL₆ = 1997 GO₄₄
= 1998 MQ₃₄

Discovered 2000 Jan. 6 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 38692)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	115.86746	<i>ω</i>	159.71573	+0.98496328	–0.16641462		
<i>a</i>	2.2768525	<i>Ω</i>	209.98141	+0.14292529	+0.93580019		
<i>e</i>	0.1880376	<i>i</i>	5.32839	+0.09705511	+0.31077995		
<i>P</i>	3.44	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 25	675	0.6+	0.8–	1998 06 24	704	0.1–	1.1+	2000 02 02	704	0.2+	0.0
1981 10 25	675	0.3–	1.0+	1998 06 26	704	0.4+	0.4–	2000 02 02	704	0.3+	0.0
1981 10 26	675 (23.6+	4.8–)		1998 06 26	704 (1.2+	2.2+)		2000 02 02	704	0.8+	0.1–
1995 11 21	399	0.8+	0.8+	1998 06 26	704 (2.5–	0.4+)		2000 02 06	704	1.2+	0.1–
1995 11 21	399	0.0	1.0–	2000 01 06	704	0.5–	0.3–	2000 02 06	704	0.3+	0.1–
1995 11 25	399	0.3–	0.8–	2000 01 06	704	0.9–	1.2+	2000 02 06	704	0.4–	0.2–
1995 11 25	399	1.0–	0.1–	2000 01 06	704	0.3–	0.2–	2000 02 06	704	0.9+	0.6+
1997 04 05	566	0.4–	0.5–	2000 01 06	704	0.7–	1.5+	2000 02 27	703	0.1+	0.4+
1997 04 05	566	0.2+	0.5–	2000 01 08	704	0.1–	0.0	2000 02 27	703	0.7–	1.3+
1997 04 05	566	0.1–	0.1–	2000 01 08	704	0.8–	1.1–	2000 02 27	703	0.9–	0.3+
1997 04 10	327	0.7–	0.4–	2000 01 08	704	0.8–	0.5–	2000 02 27	703	0.5–	0.5+
1997 04 10	327	0.7–	0.2–	2000 01 08	704	0.8+	0.2–	2000 03 08	608	0.2+	0.3+
1997 04 10	327	0.7–	0.2–	2000 01 08	704	1.3+	1.5–	2000 03 08	608	0.6+	0.1+
1998 06 24	704	0.0	1.0+	2000 02 02	704	0.4+	0.2–	2000 03 08	608	0.6+	0.0
1998 06 24	704	0.1–	0.9–	2000 02 02	704	0.9+	0.4+				

(14695)* 2000 AR₂₀₀ = 1953 PL₁ = 1964 HC = 1998 MD₁₀

Discovered 2000 Jan. 9 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. A. Doppler (*MPC* 39354)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	38.44362	<i>ω</i>	246.66467	+0.85495908	–0.49876303		
<i>a</i>	2.5750123	<i>Ω</i>	142.80898	+0.51857997	+0.82771504		
<i>e</i>	0.1723752	<i>i</i>	13.62652	–0.01094506	+0.25714440		
<i>P</i>	4.13	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1953 08 15	675	0.2–	0.6–	1999 09 14	704	0.3–	0.1+	1999 12 16	704	0.4+	0.2–
1953 08 15	675	0.4+	0.2+	1999 10 02	704	0.1–	0.4–	1999 12 16	704	0.2+	0.0
1964 04 16	033	0.9–	0.3+	1999 10 02	704	0.0	0.7–	2000 01 09	704	0.4–	0.1+
1964 04 16	033	0.1+	1.8–	1999 10 02	704	0.0	0.6–	2000 01 09	704	0.5–	0.4+
1998 05 26	704	0.8+	0.0	1999 10 02	704	0.1+	0.7–	2000 01 09	704	0.2–	0.6+
1998 05 26	704	0.0	0.6+	1999 10 02	704	0.2–	0.9–	2000 01 09	704	0.1–	0.7+
1998 05 26	704	1.2+	1.0+	1999 10 08	704	0.2–	0.1–	2000 01 09	704	0.0	1.6+
1998 05 26	704 (3.0+	1.0+)		1999 10 08	704	0.1+	0.2–	2000 01 11	704	0.3+	0.1–
1998 06 03	704	1.5+	0.7–	1999 10 08	704	0.5–	0.7–	2000 01 11	699	0.1+	0.7+
1998 06 03	704	0.4+	0.5+	1999 10 08	704	0.1+	0.5–	2000 01 11	704	0.1–	0.1–
1998 06 03	704	0.5+	0.0	1999 10 08	704	0.1–	0.8–	2000 01 11	704	0.4–	0.3+
1998 06 03	704	0.5–	0.2+	1999 10 13	699	0.3+	0.3+	2000 01 11	699	0.4+	0.0
1998 06 03	704	0.9+	0.3–	1999 10 13	699	0.1–	0.4+	2000 01 11	704	0.2–	0.4+
1998 06 19	704	1.8–	1.2+	1999 10 13	699	0.4+	0.1+	2000 01 11	704	0.2–	0.6+

1998 06 19	704	0.1–	0.3–	1999 11 05	703	0.2+	0.3+	2000 01 11	699	0.2+	0.1+
1998 06 19	704	0.4–	1.0+	1999 11 05	703	0.2+	0.3+	2000 02 05	704	0.2+	0.5+
1998 06 19	704 (2.8–	2.8+)		1999 11 05	703	0.4+	0.2+	2000 02 05	704	0.3+	1.2+
1998 06 25	704	0.5–	0.2+	1999 11 05	703	0.0	0.3+	2000 02 05	704	0.4+	0.5+
1998 06 25	704	0.6–	1.2+	1999 11 07	704	0.1–	0.1+	2000 02 05	704	0.6+	0.9+
1998 06 25	704	0.2+	0.2+	1999 11 07	704	0.5–	0.1+	2000 02 06	704	0.4+	0.3+
1998 06 25	704	0.6+	0.2+	1999 11 07	704	0.3–	0.0	2000 02 06	704	0.0	0.6+
1998 06 25	704	0.7–	1.7+	1999 11 07	704	0.6–	0.1–	2000 02 06	704	0.1+	0.3+
1999 09 14	704	0.3–	0.1–	1999 11 07	704	0.7–	0.1–	2000 02 06	704	0.0	0.6+
1999 09 14	704	0.2–	0.0	1999 12 16	704	0.3+	0.1+	2000 02 06	704	0.1+	0.6+
1999 09 14	704	0.4–	0.1+	1999 12 16	704	0.3+	0.1+				
1999 09 14	704	0.3–	0.0	1999 12 16	704	0.5+	0.2–				

(14696)* 2000 AW₂₀₃ = 1977 XQ₂ = 1994 XW₅ = 1997 KY₃

Discovered 2000 Jan. 10 by the Lincoln Laboratory Near-Earth Asteroid
Research Team at Socorro.

Id. G. V. Williams (*MPC* 39355, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	12.50783	<i>ω</i>	259.13248	–0.85112856	–0.49622544		
<i>a</i>	2.6249087	<i>Ω</i>	250.92198	+0.52391028	–0.78234214		
<i>e</i>	0.0842507	<i>i</i>	10.44232	+0.03313894	–0.37643204		
<i>P</i>	4.25	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 12 07	675	0.4–	0.2–	1999 12 16	704	1.2+	0.1–	2000 03 13	704	0.5+	0.7–
1977 12 08	675	0.3+	0.3–	1999 12 16	704	0.9–	0.0	2000 03 13	704	0.2–	0.4+
1994 12 04	098 (0.8+	3.5–)		2000 01 10	704	0.7–	0.2–	2000 03 13	704	1.0+	0.2–
1997 05 31	691	0.7–	0.1–	2000 01 10	704	0.7–	0.4–	2000 03 13	704	0.4+	0.3+
1997 05 31	691	0.5+	0.1–	2000 01 10	704	0.1–	0.4+	2000 04 04	699	0.1+	0.7+
1997 05 31	691	0.2+	0.2–	2000 01 10	704	0.6–	0.0	2000 04 04	699	0.2+	0.9+
1997 06 09	691	0.1–	0.4+	2000 01 11	704	0.5–	0.3–	2000 04 04	699	0.4–	0.8+
1997 06 09	691	0.1–	0.2+	2000 01 11	704	1.0–	0.1–	2000 04 04	699	0.0	0.4+
1997 06 09	691	0.0	0.1+	2000 01 11	704	0.0	0.4+	2000 04 07	704	1.0+	0.3–
1998 11 11	704	0.8–	1.1+	2000 01 11	704	0.5–	0.1+	2000 04 07	704	1.7+	0.1–
1998 11 11	704	0.4+	0.1+	2000 01 11	704	1.0–	0.2–	2000 04 07	704	1.2+	0.0
1998 11 11	704 (0.8–	2.1+)		2000 03 09	704	0.1+	0.2+	2000 04 07	704	0.8+	1.0+
1998 11 11	704	0.0	1.7+	2000 03 09	704	0.1–	0.0	2000 04 07	704 (3.1+	1.4+)	
1998 11 11	704 (5.4–	0.2–)		2000 03 09	704	0.0	0.0	2000 04 10	608	0.5–	0.4–
1999 12 16	704	0.6–	1.3–	2000 03 09	704	0.3–	0.0	2000 04 10	608	0.0	0.5–
1999 12 16	704	1.1–	1.0–	2000 03 09	704	0.0	0.8+	2000 04 10	608	0.2+	0.1+

(14697)* 2000 AO₂₁₄ = 1995 WJ₂₃

Discovered 2000 Jan. 6 by Spacewatch at Kitt Peak.

Id. A. Gnädig (*MPC* 39355), M. E. Sansaturio (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	166.78664	<i>ω</i>	75.45881	+0.83579894	+0.54897097		
<i>a</i>	2.2105897	<i>Ω</i>	251.24410	–0.50709498	+0.76597795		
<i>e</i>	0.1255766	<i>i</i>	0.50991	–0.21046335	+0.33452751		
<i>P</i>	3.29	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1984 03 11	413	0.1–	0.6–	1998 08 23	699	0.0	0.4+	2000 01 13	699	0.8+	0.7–
1984 03 11	413	0.2+	0.9–	1998 08 23	699	0.4+	0.6+	2000 01 13	699	0.2+	0.4–
1984 05 23	413	1.1–	0.9+	1998 09 21	699	0.3–	0.4–	2000 02 03	704	0.3+	0.9+
1984 05 23	413	0.1+	0.1+	1998 09 21	699	0.8–	0.0	2000 02 03	704	0.3+	0.2+
1991 03 23	413	0.1+	1.1–	1998 09 21	699	0.0	0.7–	2000 02 03	704	0.2–	0.1–
1991 03 23	413	0.4–	0.0	1998 11 09	910	1.7–	0.4–	2000 02 03	704	0.1+	0.4+
1995 11 18	691	0.4+	0.3+	1998 11 09	910	1.4–	0.2–	2000 02 03	704	0.4–	0.3–
1995 11 18	691	0.6+	0.0	1998 11 09	910	1.7–	0.3–	2000 02 05	695	0.3+	0.2+
1995 11 18	691	0.6+	0.1–	2000 01 05	704	1.4–	0.9+	2000 02 05	704	0.1–	0.7–
1995 11 23	691	0.4–	0.3–	2000 01 05	704	0.2–	1.1–	2000 02 05	695	0.8+	0.4+
1995 11 23	691	0.1–	0.1–	2000 01 05	704	1.7–	0.1–	2000 02 05	704	0.2–	0.1+
1995 11 23	691	0.2–	0.1–	2000 01 05	704	0.5–	0.4+	2000 02 05	704	0.1–	0.2–

1997 03 13	675	(3.7−	2.3+)	2000 01 06	691	0.1−	0.1+	2000 02 06	704	0.7+	0.8−
1997 03 13	675	0.3+	0.9+	2000 01 06	691	0.0	0.1+	2000 02 06	704	0.4−	0.3−
1998 08 17	704	0.8+	0.5+	2000 01 06	691	0.1−	0.2+	2000 02 06	704	0.5+	0.4−
1998 08 17	704	1.6+	1.0−	2000 01 09	691	0.4−	0.0	2000 03 12	691	0.5+	0.1+
1998 08 17	704	0.0	0.6−	2000 01 09	691	0.1−	0.2+	2000 03 12	691	0.5+	0.2−
1998 08 17	704	0.5+	0.3−	2000 01 09	691	0.7−	0.1−	2000 03 12	691	0.7+	0.1−
1998 08 23	699	0.2+	0.3+	2000 01 13	699	0.3+	0.1−				

(14698)* 2000 AT₂₃₀ = 6386 P-L = 1990 RU₇ = 1994 TV₇ = 1998 UO₄₂

Discovered 2000 Jan. 3 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 38710), M. E. Sansaturio (*MPC* 39357)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	282.82659		(2000.0)		P	Q	
n	0.26188371	ω	58.87133		−0.62243883	+0.78266453	
a	2.4195265	Ω	172.63272		−0.72449931	−0.57497844	
e	0.1454653	i	1.10648		−0.29609230	−0.23840306	
P	3.76	H	14.9	G	0.15	U	1

Residuals in seconds of arc

1960 09 26	675	0.4−	0.8+	2000 01 06	704	0.9−	0.4+	2000 02 05	704	1.3+	0.4−
1960 09 27	675	1.1+	0.8+	2000 01 06	704	0.5−	0.5−	2000 02 05	704	0.4+	0.1+
1960 09 28	675	1.2−	0.3−	2000 01 13	699	0.7−	0.4+	2000 02 05	704	0.2+	0.9−
1990 09 14	809	0.1+	0.1−	2000 01 13	699	0.7+	0.6+	2000 02 05	704	0.3−	0.1+
1990 09 14	809	0.6+	0.1+	2000 01 13	699	1.4+	1.6+	2000 02 05	704	0.6+	0.4−
1990 09 14	809	1.2+	0.1+	2000 01 30	703	0.6−	0.2+	2000 02 05	704	0.4+	0.6−
1990 09 15	809	0.6−	0.3+	2000 01 30	703	0.1+	0.1+	2000 02 05	704	0.4−	0.5−
1990 09 15	809	0.1−	0.5+	2000 01 30	703	0.6−	0.1+	2000 02 05	704	0.6+	0.2+
1990 09 15	809	0.3+	0.4+	2000 01 30	703	0.2+	0.3+	2000 02 05	704	1.1−	0.8+
1994 10 06	691	0.7−	0.5−	2000 02 02	704	0.1−	0.6−	2000 02 05	704	0.0	0.0
1994 10 06	691	0.2−	0.9−	2000 02 02	704	0.3+	0.2−	2000 02 05	704	0.1−	0.2−
1994 10 06	691	1.0−	0.1+	2000 02 02	704	0.3−	0.1−	2000 02 11	704	0.4+	0.1+
1994 10 11	691	0.8−	0.2−	2000 02 02	704	0.1−	0.0	2000 02 11	704	0.1−	1.5+
1994 10 11	691	0.7−	0.4−	2000 02 02	704	0.0	0.4−	2000 02 11	704	1.7+	0.3+
1994 10 11	691	0.6−	0.2−	2000 02 03	704	0.0	0.3+	2000 02 11	704	0.4−	1.1−
1998 10 28	704	0.0	1.6−	2000 02 03	704	0.3−	0.1−	2000 02 26	703	0.2−	0.8+
1998 10 28	704	1.8+	0.8−	2000 02 03	704	0.5−	0.3−	2000 02 26	703	0.8−	0.1−
1998 10 28	704	0.0	0.2−	2000 02 03	704	0.2−	0.2−	2000 02 26	703	0.1−	0.4+
1998 10 28	704	0.0	0.6+	2000 02 03	704	0.2+	0.2−	2000 02 26	703	1.2−	1.5+
1998 10 29	704	1.2+	0.7+	2000 02 05	704	1.2+	0.5+	2000 03 04	691	0.1+	0.5−
1998 10 29	704	0.8+	0.1+	2000 02 05	704	0.3+	0.7+	2000 03 04	691	0.1+	0.6−
1998 10 29	704	0.5+	0.9+	2000 02 05	704	0.2−	0.1+	2000 03 04	691	0.1+	0.5−
1998 10 29	704	1.1−	0.0	2000 02 05	704	0.3+	0.3+	2000 03 12	691	0.4−	0.4−
2000 01 03	691	0.7−	0.3−	2000 02 05	704	0.1+	1.1+	2000 03 12	691	0.3−	0.3−
2000 01 03	691	0.7−	0.6−	2000 02 05	704	0.9+	1.2−	2000 03 12	691	0.3−	0.4−
2000 01 03	691	0.6−	0.2−	2000 02 05	704	0.5−	0.0				
2000 01 06	704	0.2−	0.1+	2000 02 05	704	1.1+	0.2+				

(14699)* 2000 AV₂₃₉ = 1970 SK₁ = 1984 UD₄ = 1998 QC₅₃

Discovered 2000 Jan. 6 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 38713, *MPC* 39359), M. E. Sansaturio (*MPC* 39359)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	88.99640		(2000.0)		P	Q	
n	0.21083135	ω	105.88884		+0.78294348	−0.61426308	
a	2.7958418	Ω	292.11377		+0.52238225	+0.73506003	
e	0.2543025	i	6.09638		+0.33781104	+0.28699760	
P	4.67	H	12.7	G	0.15	U	1

Residuals in seconds of arc

1970 09 27	095	1.3+	2.2+	1998 12 24	699	0.4−	0.3−	2000 02 06	704	0.1+	0.7−
1970 10 01	095	1.3−	1.2−	1999 01 08	704	0.8+	0.6−	2000 02 06	704	0.1−	0.5−
1984 10 20	095	0.6−	0.0	1999 01 08	704	0.0	0.1+	2000 02 06	704	0.8−	1.3+
1993 07 25	033	0.6−	1.1+	1999 01 08	704	1.2−	0.4+	2000 02 06	704	0.6+	0.5+
1993 07 26	033	1.1−	0.5+	1999 01 08	704	0.4−	0.6−	2000 02 12	704	0.3+	0.5−
1998 06 30	704	0.6+	0.2+	1999 01 08	704	(1.3+	2.2−)	2000 02 12	704	(2.3−	1.7−)

1998 06 30	704	0.2+	0.0	1999 02 04	699	1.5−	0.5−	2000 02 12	704	0.3−	0.0
1998 06 30	704	0.3−	0.2−	1999 02 04	699	0.1+	0.4+	2000 02 13	704	1.3+	0.1−
1998 06 30	704	0.6−	1.7+	1999 02 04	699	0.5−	0.4−	2000 02 13	704	0.5−	0.3+
1998 06 30	704	1.4−	0.5−	1999 12 05	704	0.1+	0.0	2000 02 13	704	0.6+	0.4+
1998 08 20	699	0.7+	0.2+	1999 12 05	704	0.5−	0.9−	2000 02 13	704	0.2−	0.7+
1998 08 20	699	0.5+	0.5+	1999 12 05	704	0.5−	0.2+	2000 03 11	699	0.3−	0.1+
1998 08 20	699	0.0	0.5+	1999 12 05	704	0.6−	0.2+	2000 03 11	699	0.0	0.1+
1998 08 27	699	0.1+	0.7+	1999 12 05	704	0.8−	0.3−	2000 03 11	699	0.2−	0.1+
1998 08 27	699	0.4+	0.9+	1999 12 05	699	0.1−	0.3+	2000 03 11	699	0.0	0.2+
1998 08 27	699	0.2+	0.6+	1999 12 05	699	0.8−	0.8−	2000 03 11	608	0.1−	0.1−
1998 10 15	699	0.1−	0.3+	1999 12 05	699	0.5+	0.5+	2000 03 11	608	0.1−	0.3−
1998 10 15	699	0.1+	0.4+	2000 01 06	699	1.2+	0.9+	2000 03 11	608	0.2+	0.3−
1998 10 15	699	0.2+	0.3+	2000 01 06	699	0.5+	1.1+	2000 03 13	704	0.0	0.4+
1998 11 20	704	1.7−	0.4−	2000 01 06	699	0.2+	1.5+	2000 03 13	704	0.3−	0.7+
1998 11 20	704	0.3+	0.1−	2000 01 08	704	1.7+	0.2+	2000 03 13	704	0.1−	1.2+
1998 11 20	704	1.9−	0.0	2000 01 08	704	0.1−	0.4+	2000 03 13	704	0.7−	0.3+
1998 11 20	704	(2.3−	0.6+)	2000 01 08	704	1.5+	1.6−	2000 03 13	704	1.2−	1.4+
1998 11 20	704	1.7+	0.2+	2000 01 08	704	0.9+	1.1+	2000 04 04	699	0.0	0.4−
1998 12 09	704	0.1+	0.5−	2000 01 08	704	0.2+	0.6−	2000 04 04	699	0.4−	0.6+
1998 12 09	704	0.5+	0.4+	2000 02 02	704	0.0	0.2−	2000 04 04	699	0.1−	0.0
1998 12 09	704	0.2+	0.1+	2000 02 02	704	0.3+	0.1−	2000 04 04	699	0.3−	0.1+
1998 12 09	704	1.2+	0.6−	2000 02 02	704	0.1+	0.1−	2000 04 05	704	0.7+	0.4−
1998 12 09	704	1.7+	0.8−	2000 02 02	704	0.5+	0.2−	2000 04 05	704	0.4+	0.1−
1998 12 24	699	0.9−	0.2−	2000 02 02	704	0.2+	0.1−	2000 04 05	704	(0.4+	2.1+)
1998 12 24	699	0.7−	0.2−	2000 02 06	704	0.0	0.2−				

(14700)* 2000 AC₂₄₀ = 1980 WD = 1980 WQ = 1991 FP₃ = 1993 QN₁
= 1998 TS₃₂

Discovered 2000 Jan. 6 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 39359), B. G. Marsden (d, *MPC* 10195)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	49.03724		(2000.0)		P		Q
n	0.21776748	ω	298.53553		−0.20907061		−0.97660925
a	2.7361551	Ω	163.30460		+0.94717533		−0.21501086
e	0.1235093	i	10.07123		+0.24320438		−0.00216816
P	4.53	H	13.0	G	0.15	U	1

Residuals in seconds of arc

1980 11 29	688	(4.8+ 2.3-)	2000 01 05	704	1.2- 0.3-	2000 02 29	704	0.5- 0.6+
1980 11 29	688	(3.3+ 2.7-)	2000 01 05	704	1.7+ 0.6+	2000 03 03	704	0.1+ 0.1-
1980 11 30	095	1.0+ 0.1-	2000 01 06	699	0.4+ 0.7-	2000 03 03	704	0.2+ 0.2-
1991 03 22	809	1.8- 0.2+	2000 01 06	699	0.5+ 0.2+	2000 03 03	704	0.0 0.2-
1991 03 22	809	1.4- 0.1-	2000 01 06	699	0.6+ 0.1-	2000 03 03	704	0.5+ 0.4+
1991 03 22	809	0.7- 0.4-	2000 01 08	704	0.9- 0.6+	2000 03 03	704	0.1- 0.2-
1991 03 23	809	0.8+ 1.4+	2000 01 08	704	0.4- 0.5+	2000 03 11	704	0.3- 0.0
1991 03 23	809	1.0+ 1.6+	2000 01 08	704	0.0 0.3-	2000 03 11	704	0.1- 0.0
1991 03 23	809	0.9+ 1.7+	2000 01 08	704	0.3+ 0.2-	2000 03 11	704	0.3- 0.1-
1993 08 16	010	1.7- 1.3-	2000 02 02	704	0.2- 0.2+	2000 03 11	704	0.2- 0.4-
1993 08 16	010	0.8- 0.7-	2000 02 02	704	0.1+ 0.0	2000 03 11	704	0.7- 0.1+
1993 08 16	010	(0.9- 2.6-)	2000 02 02	704	0.3+ 0.2-	2000 03 11	699	0.4- 0.1+
1993 08 17	010	(0.9- 3.3-)	2000 02 02	704	0.1- 0.6+	2000 03 11	699	0.4- 0.0
1993 09 18	010	1.9+ 0.3-	2000 02 02	704	0.5- 1.3+	2000 03 11	699	1.1- 0.1-
1993 09 18	010	0.7+ 0.7-	2000 02 05	704	1.0+ 0.3-	2000 03 11	699	0.2- 0.0
1993 09 18	010	1.3+ 0.0	2000 02 05	704	0.5+ 0.3-	2000 03 23	049	0.9+ 1.2-
1998 09 18	699	0.3- 0.4+	2000 02 05	704	0.0 0.2+	2000 03 23	049	1.1+ 1.1-
1998 09 18	699	0.3- 0.4+	2000 02 06	704	0.0 0.6-	2000 03 23	049	0.9+ 1.2-
1998 09 18	699	0.3- 0.7+	2000 02 06	704	0.0 0.8-	2000 04 03	699	0.4+ 0.0
1998 10 12	699	0.0 0.3+	2000 02 06	704	0.3- 0.9-	2000 04 03	699	0.3+ 0.0
1998 10 12	699	0.1+ 0.0	2000 02 06	704	0.3- 0.3-	2000 04 03	699	0.3+ 0.1+
1998 10 12	699	0.8+ 0.2+	2000 02 06	704	0.4- 0.9-	2000 04 03	704	0.4+ 0.2-
1998 10 17	699	0.4+ 0.0	2000 02 26	849	0.4+ 0.3+	2000 04 03	699	0.1- 0.3+
1998 10 17	699	0.7+ 0.2-	2000 02 26	849	0.1- 0.1+	2000 04 03	704	0.1+ 0.0
1998 10 17	699	0.2+ 0.5-	2000 02 26	849	0.2- 0.2-	2000 04 03	704	0.1- 0.1+
1998 11 13	704	0.6+ 0.3+	2000 02 26	703	0.2- 0.3-	2000 04 03	704	0.0 0.2-
1998 11 13	704	1.7- 0.9+	2000 02 26	703	0.4- 0.6+	2000 04 03	704	0.2+ 0.2-

2000 APR. 18

M.P.C. 39905

1998 11 13	704	0.0	0.2+	2000 02 26	703	0.0	0.1-	2000 04 06	608	(1.8+	2.1-)
1998 11 13	704	1.1-	1.0-	2000 02 26	703	0.3+	0.2-	2000 04 06	608	(1.9+	2.3-)
1998 11 13	704	1.4-	0.1-	2000 02 27	691	0.3-	0.5-	2000 04 06	608	(1.1+	3.9-)
1999 11 19	699	1.1+	0.5+	2000 02 27	691	0.4-	0.4-	2000 04 10	704	0.5+	0.0
1999 11 19	699	0.8+	0.9-	2000 02 27	691	0.5-	0.4-	2000 04 10	704	(2.3+	0.8+)
1999 11 19	699	0.2-	1.1-	2000 02 29	704	0.1-	0.0	2000 04 10	704	1.4+	0.1+
2000 01 05	704	1.0-	0.2-	2000 02 29	704	0.6-	0.2+	2000 04 10	704	0.4+	1.0+
2000 01 05	704	0.4-	0.1-	2000 02 29	704	0.2-	0.3+				

(14701)* 2000 AO₂₄₀ = 1976 SG₃ = 1985 ST

Discovered 2000 Jan. 7 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 39360)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	51.60691	(2000.0)	
<i>n</i>	0.21776749	ω	185.00205
<i>a</i>	2.7361549	Ω	195.50158
<i>e</i>	0.1912495	<i>i</i>	13.12733
<i>P</i>	4.53	<i>H</i>	13.7
		<i>G</i>	0.15
		<i>U</i>	2

Residuals in seconds of arc

1976 09 24	095	0.7-	1.3+	1999 11 05	704	0.3-	0.2+	2000 01 11	704	0.6+	1.4-
1976 09 29	095	1.7+	1.5-	1999 11 05	704	0.1-	0.0	2000 01 11	704	1.1+	1.0+
1985 09 18	046	1.0+	0.6-	1999 11 05	704	0.1+	0.4-	2000 01 11	704	0.8+	0.2-
1985 09 18	046	(1.2-	3.5-)	1999 11 05	704	0.1+	0.6-	2000 01 11	704	0.6+	1.0+
1985 09 19	046	1.7-	0.4-	1999 11 05	704	0.4+	0.8-	2000 01 11	704	0.1+	1.1+
1985 09 19	046	0.8-	0.5+	1999 11 13	703	0.3-	0.1+	2000 02 05	704	0.0	0.1-
1998 06 25	704	0.4-	0.5+	1999 11 13	703	0.9-	0.6-	2000 02 05	704	0.6-	0.3-
1998 06 25	704	(0.0	2.4+)	1999 11 13	703	0.2-	0.3+	2000 02 05	704	0.6-	0.6+
1998 06 25	704	(0.1-	2.3+)	1999 11 13	703	0.2+	0.5+	2000 02 05	704	1.8+	1.0+
1998 06 25	704	1.0+	1.7+	1999 12 03	704	0.3+	0.1+	2000 02 06	704	0.2+	0.5+
1998 06 25	704	0.4-	0.5+	1999 12 03	704	0.2-	0.2-	2000 02 06	704	1.7-	1.2-
1999 10 10	704	0.3-	0.1-	1999 12 03	704	0.1+	0.1-	2000 02 06	704	1.3+	0.6-
1999 10 10	704	0.1-	0.0	1999 12 03	704	0.1+	0.3+	2000 02 06	704	0.2-	0.0
1999 10 10	704	0.8+	0.3+	1999 12 16	699	0.4-	0.4+	2000 02 06	704	0.3-	0.4-
1999 10 10	704	0.2-	0.4-	1999 12 16	699	0.2-	0.5+	2000 03 06	704	0.1+	0.9+
1999 10 10	704	0.1-	0.3-	1999 12 16	699	0.0	0.5+	2000 03 06	704	0.3-	0.2+
1999 11 05	699	0.1-	0.4+	2000 01 07	699	0.1-	0.3+	2000 03 06	704	1.7-	0.8-
1999 11 05	699	0.1+	0.2+	2000 01 07	699	0.4-	0.7+				
1999 11 05	699	0.3+	0.1+	2000 01 07	699	0.0	0.1+				

(14702)* 2000 AY₂₄₂ = 1988 XD₃ = 1992 SF₂₅ = 1996 MH₁ = 1998 XL₈₀

Discovered 2000 Jan. 7 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Id. G. V. Williams (*MPC* 39360)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	206.66877	(2000.0)	
<i>n</i>	0.19163637	ω	107.11945
<i>a</i>	2.9795506	Ω	199.78920
<i>e</i>	0.1062792	<i>i</i>	10.05019
<i>P</i>	5.14	<i>H</i>	12.1
		<i>G</i>	0.15
		<i>U</i>	1

Residuals in seconds of arc

1988 12 07	033	0.3-	0.6+	1998 12 22	704	0.1-	0.0	2000 03 01	703	0.1+	0.4+
1988 12 07	033	0.0	0.1-	1998 12 22	704	0.3-	0.7-	2000 03 01	703	0.4-	0.4-
1992 09 30	675	0.6+	0.4+	1998 12 22	704	0.0	0.1-	2000 03 01	703	0.3+	0.1+
1992 09 30	675	0.5-	0.1+	1999 01 14	699	1.2+	1.4+	2000 03 06	704	0.3+	0.4+
1992 10 03	675	0.0	0.1-	1999 01 14	699	(1.1+	2.1+)	2000 03 06	704	0.5+	0.1+
1992 10 03	675	0.6+	0.3-	1999 01 14	699	0.4-	0.2+	2000 03 06	704	0.1+	0.2+
1996 06 17	691	0.1-	0.2+	2000 01 07	699	0.0	0.2+	2000 03 06	704	0.6+	0.0
1996 06 17	691	0.3-	0.1-	2000 01 07	699	0.8+	0.1-	2000 03 08	704	0.4+	0.7+
1996 06 17	691	0.1-	0.0	2000 01 07	699	0.2+	0.0	2000 03 08	704	0.2-	0.0
1996 06 23	691	0.1-	0.1+	2000 01 11	704	0.2-	0.5-	2000 03 08	704	0.7-	0.2-
1996 06 23	691	0.0	0.2-	2000 01 11	704	0.9-	0.0	2000 03 08	704	0.5+	0.1+
1996 06 23	691	0.0	0.3-	2000 01 11	704	0.5-	0.2+	2000 03 08	704	0.0	0.6+

1998 12 15	704	0.1-	1.6-	2000 01 11	704	0.6-	0.3-	2000 04 05	704	0.2+	0.0
1998 12 15	704	0.0	0.0	2000 01 11	704	0.9-	0.4-	2000 04 05	704	0.6+	0.2-
1998 12 15	704	0.4-	0.4-	2000 02 06	704	(0.6-	2.5-)	2000 04 05	704	0.8+	0.3-
1998 12 15	704	0.2+	0.2-	2000 02 06	704	0.5+	0.8-	2000 04 05	704	1.0+	0.2+
1998 12 15	704	0.2-	0.4+	2000 02 06	704	0.3-	0.6-	2000 04 05	704	0.4+	0.1+
1998 12 22	704	0.2-	0.5+	2000 02 06	704	0.2+	0.5-				
1998 12 22	704	0.7-	0.4+	2000 03 01	703	1.5-	0.1+				

(14703)* 2000 AX₂₄₃ = 1992 GG

Discovered 2000 Jan. 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Id. G. V. Williams (*MPC* 39361)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	322.31134	(2000.0)	
<i>n</i>	0.23919499	ω	109.97919
<i>a</i>	2.5702064	Ω	102.24445
<i>e</i>	0.1077033	<i>i</i>	7.57190
<i>P</i>	4.12	<i>H</i>	13.4
		<i>G</i>	0.15
		<i>U</i>	1

Residuals in seconds of arc

1992 04 03	400	0.6-	1.8-	1999 11 16	703	0.7+	0.6-	2000 03 12	704	0.1+	0.2-
1992 04 03	400	0.3+	0.5-	2000 01 04	704	0.7-	1.5+	2000 03 12	704	0.3+	0.2-
1992 04 07	400	(3.8-	0.7+)	2000 01 04	704	1.2-	0.4-	2000 03 12	704	0.0	0.3-
1992 04 07	400	(2.9-	2.5+)	2000 01 04	704	0.6-	1.0-	2000 03 12	704	0.2-	0.1-
1992 05 02	400	1.3-	1.3-	2000 01 07	704	1.1-	0.1-	2000 03 12	704	0.5-	0.8-
1992 05 02	400	0.5+	0.8+	2000 01 07	704	0.9-	0.7-	2000 03 28	704	0.2+	0.4+
1997 09 01	566	0.3-	1.2+	2000 01 07	704	0.7-	0.2-	2000 03 28	704	0.5-	0.1+
1997 09 01	566	0.3-	1.1+	2000 01 07	704	0.8-	1.5+	2000 03 28	704	0.4+	0.2+
1997 09 01	566	0.3-	0.7+	2000 01 07	704	0.8-	0.1-	2000 03 28	704	0.4+	0.3+
1998 11 11	704	0.1-	0.5-	2000 01 10	699	(2.3-	0.8+)	2000 03 28	704	1.0+	1.2+
1998 11 11	704	(0.9-	2.4-)	2000 01 10	699	0.3-	0.3-	2000 04 04	704	0.6+	0.1-
1998 11 11	704	0.4-	0.2+	2000 01 10	699	0.1+	0.2-	2000 04 04	704	0.2+	0.2-
1998 11 11	704	0.6+	0.6+	2000 02 01	703	0.1+	0.0	2000 04 04	704	0.4+	0.6+
1998 11 11	699	0.2+	0.3-	2000 02 01	703	0.2+	0.0	2000 04 04	704	0.4+	0.6+
1998 11 11	704	(4.1-	1.5-)	2000 02 01	703	0.2+	0.8+	2000 04 04	704	0.6+	0.1-
1998 11 11	699	0.2+	0.3-	2000 02 01	703	0.1+	0.2+	2000 04 08	704	0.4+	0.2+
1998 11 11	699	0.7+	0.4+	2000 02 04	704	0.8+	0.6-	2000 04 08	704	0.2+	0.4+
1998 11 23	699	0.1+	0.3+	2000 02 04	704	0.7+	0.6+	2000 04 08	704	0.2+	0.2+
1998 11 23	699	0.6-	0.2+	2000 02 04	704	0.7+	1.1+	2000 04 08	704	0.1+	0.4+
1998 11 23	699	0.2-	0.4-	2000 02 04	704	1.9+	1.5+	2000 04 08	704	0.5-	0.3+
1998 12 11	699	0.7-	0.0	2000 02 04	704	0.8+	1.5+	2000 04 09	608	0.0	0.7-
1998 12 11	699	0.0	0.1+	2000 03 05	704	0.3-	0.4-	2000 04 09	608	0.1-	0.7-
1998 12 11	699	0.6+	0.7-	2000 03 05	704	0.1-	0.4-	2000 04 09	608	0.1+	0.6-
1999 11 16	703	0.2+	1.0-	2000 03 05	704	0.5-	0.3-	2000 04 13	704	0.6+	0.2+
1999 11 16	703	0.8+	0.6+	2000 03 05	704	0.5-	0.4-	2000 04 13	704	0.7-	0.8+
1999 11 16	703	0.3-	0.3+	2000 03 05	704	0.8-	0.6-	2000 04 13	704	0.2-	1.2+

(14704)* 2000 CE₂ = 1994 VJ₈ = 1996 FL

Discovered 2000 Feb. 2 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 39369)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	86.23688	(2000.0)	
<i>n</i>	0.23054633	ω	35.10597
<i>a</i>	2.6340898	Ω	2.27379
<i>e</i>	0.2950347	<i>i</i>	12.83981
<i>P</i>	4.28	<i>H</i>	13.8
		<i>G</i>	0.15
		<i>U</i>	1

Residuals in seconds of arc

1994 11 04	675	0.0	0.2+	2000 02 03	704	0.4+	0.3+	2000 03 05	704	0.1-	0.1-
1994 11 04	675	0.1-	0.5+	2000 02 03	704	0.8+	0.2+	2000 03 05	704	1.2-	0.5+
1994 11 06	675	0.1+	0.3-	2000 02 03	704	0.0	0.4+	2000 03 05	704	0.3+	0.7+
1994 11 06	675	0.1-	0.1-	2000 02 03	704	1.1+	0.0	2000 03 05	704	0.2+	0.0
1996 03 17	566	0.9-	0.3+	2000 02 03	704	0.5+	0.9+	2000 03 11	699	0.7-	0.4-
1996 03 17	566	0.3-	0.1+	2000 02 04	411	0.2+	0.2+	2000 03 11	699	0.2-	0.0
1996 03 17	566	0.7-	0.3+	2000 02 04	411	1.0+	1.3-	2000 03 11	699	0.5-	0.1+

1996 03 19	566	0.5+	0.7-	2000 02 11	411	(2.5-	0.1-)	2000 03 11	699	0.1-	0.3+
1996 03 19	566	0.1+	0.4-	2000 02 11	411	1.1-	1.1-	2000 03 12	704	0.7+	0.2+
1996 03 19	566	0.0	0.3-	2000 02 25	703	0.5-	0.2+	2000 03 12	704	0.3+	0.1+
1998 08 20	699	0.3-	0.1+	2000 02 25	703	0.5+	0.9+	2000 03 12	704	0.2-	0.0
1998 08 20	699	0.6-	0.0	2000 02 25	703	0.0	0.9+	2000 03 12	704	0.4+	0.0
1998 08 20	699	0.6-	0.0	2000 02 25	703	0.3-	0.5+	2000 03 12	704	0.1-	0.1-
1998 09 24	699	0.5+	0.9+	2000 02 29	704	0.0	0.1+	2000 03 26	704	0.2+	0.1-
1998 09 24	699	0.4+	0.4+	2000 02 29	704	0.5-	0.3-	2000 03 26	704	1.0+	0.4+
1998 09 24	699	0.0	0.5+	2000 02 29	704	0.2-	0.1+	2000 03 26	704	1.0+	0.8+
1998 12 09	699	0.5+	0.7-	2000 02 29	704	0.2-	0.0	2000 03 26	704	0.5+	0.4-
1998 12 09	699	0.8-	0.2+	2000 02 29	704	0.4-	0.6-	2000 03 26	704	0.7+	0.4+
1998 12 09	699	0.5+	1.2-	2000 02 29	411	0.7-	1.4-	2000 04 07	608	0.1+	0.8-
2000 02 02	411	(2.1+	1.3+)	2000 02 29	411	1.3-	0.2+	2000 04 07	608	0.5+	0.4-
2000 02 02	411	(3.1+	0.8+)	2000 03 05	704	0.1+	0.6+	2000 04 07	608	0.4+	0.3-

(14705)* 2000 CG₂ = 1979 VZ = 1997 SD₃₄ = 1998 XT₂

Discovered 2000 Feb. 2 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 39369)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	198.41646		(2000.0)	P	Q
n	0.21349110	ω	318.59812	+0.80754539	+0.58942059
a	2.7725722	Ω	5.41545	-0.46413873	+0.65735750
e	0.1729656	i	13.04517	-0.36393086	+0.46953646
P	4.62	H	12.5	G 0.15	U 1

Residuals in seconds of arc

1979 11 14	095	0.2+	0.3-	1999 12 17	699	0.3+	0.7+	2000 02 29	411	0.2-	0.9-
1997 09 02	566	0.7-	0.3+	2000 01 12	327	0.0	0.3-	2000 03 02	703	0.4-	0.3+
1997 09 02	566	0.5-	0.2+	2000 01 12	327	0.1-	0.8-	2000 03 02	703	0.7-	0.4+
1997 09 02	566	0.6-	0.3+	2000 01 12	327	0.3-	0.2-	2000 03 02	703	0.0	0.0
1997 09 28	566	0.1-	0.9+	2000 01 17	327	0.1-	0.1-	2000 03 02	703	0.2-	0.8-
1997 09 28	566	0.0	0.5+	2000 01 17	327	0.6-	0.0	2000 03 05	704	0.3-	0.1+
1997 09 28	566	0.3+	0.3+	2000 01 17	327	0.1-	0.2-	2000 03 05	704	0.1-	0.1+
1997 09 30	566	0.4+	0.4+	2000 02 02	411	0.8+	1.5+	2000 03 05	704	0.3-	0.0
1997 09 30	566	0.2-	0.6+	2000 02 02	411	1.4+	0.9+	2000 03 05	704	0.1+	0.1+
1997 09 30	566	0.2-	0.0	2000 02 03	704	0.1+	0.2+	2000 03 05	704	0.4+	0.2+
1997 11 30	566	0.8-	0.6+	2000 02 03	704	0.3+	0.4+	2000 03 11	699	0.7+	0.5+
1997 11 30	566	1.2-	1.0+	2000 02 03	704	0.4+	0.3+	2000 03 11	699	0.5+	0.7+
1997 11 30	566	0.5-	1.5+	2000 02 03	704	0.5+	0.1+	2000 03 11	699	0.5+	0.7+
1998 12 07	327	0.6-	0.1+	2000 02 03	704	0.1+	0.4-	2000 03 11	699	0.5+	0.4+
1998 12 07	327	0.5-	0.0	2000 02 04	411	0.9-	1.5+	2000 03 12	704	0.5+	0.1+
1998 12 07	327	0.4-	0.1-	2000 02 04	411	0.5-	0.2+	2000 03 12	704	0.6+	0.1+
1998 12 08	327	1.0-	1.4-	2000 02 11	704	0.3-	0.1-	2000 03 12	704	0.4+	0.0
1998 12 08	327	0.0	1.4-	2000 02 11	704	1.1+	0.2+	2000 03 12	704	0.1+	0.2-
1998 12 08	327	0.1+	1.0-	2000 02 11	704	1.6+	0.2+	2000 03 12	704	0.1+	0.2+
1998 12 13	327	0.2-	0.3+	2000 02 11	704	1.4+	0.4-	2000 04 03	699	0.0	0.4-
1998 12 13	327	0.3-	0.4+	2000 02 11	411	1.0-	1.1-	2000 04 03	699	0.4-	0.0
1998 12 13	327	0.2-	0.4+	2000 02 11	411	1.1-	0.3+	2000 04 03	699	0.0	0.4-
1998 12 14	704	0.3+	0.4+	2000 02 25	703	1.0-	0.2+	2000 04 03	699	0.1-	0.0
1998 12 14	704	0.2+	0.6+	2000 02 25	703	0.1-	0.2-	2000 04 04	704	0.2-	0.1-
1998 12 14	704	0.6+	0.7+	2000 02 25	703	0.3-	0.2+	2000 04 04	704	0.1-	0.9+
1998 12 14	704	1.9+	0.9+	2000 02 25	703	0.4-	0.2-	2000 04 04	704	0.2-	0.5+
1998 12 14	704	(2.7+	0.5+)	2000 02 29	704	0.2+	0.3-	2000 04 04	704	0.1+	0.1-
1998 12 29	327	0.5-	0.6-	2000 02 29	704	0.2+	0.4-	2000 04 04	704	0.3-	0.1+
1998 12 29	327	0.0	0.0	2000 02 29	704	0.1+	0.3-	2000 04 10	704	0.2-	0.0
1998 12 29	327	0.7+	0.1+	2000 02 29	704	0.1+	0.6-	2000 04 10	704	0.6+	0.4+
1999 12 17	699	0.3+	1.2+	2000 02 29	704	0.3+	0.4-	2000 04 10	704	0.0	0.7+
1999 12 17	699	0.4+	0.7+	2000 02 29	411	(0.1+	2.4-)				

(14706)* 2000 CQ₂ = 4644 T-1 = 1985 UX = 1998 XJ₆₉

Discovered 2000 Feb. 4 by T. Kobayashi at Oizumi.

Id. M. E. Sansaturio (*MPC* 39370)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	216.07098		(2000.0)	P	Q
n	0.23552892	ω	284.16863	+0.66378217	+0.73912771
a	2.5968083	Ω	28.46344	-0.55958962	+0.59226132
e	0.1799360	i	13.88647	-0.49623854	+0.32080641
P	4.18	H	12.5	G 0.15	U 2

Residuals in seconds of arc

1971 05 13	675	0.5-	1.6-	1998 12 17	704	0.3-	1.6-	2000 03 04	704	0.1-	0.1-
1971 05 14	675	0.3-	0.8-	1998 12 17	704	1.0-	1.3-	2000 03 04	704	0.1+	0.2-
1971 05 16	675	0.4-	0.2+	1998 12 17	704	0.8+	0.3+	2000 03 04	704	0.1-	0.2-
1985 10 20	046	(3.5-	0.1+)	1998 12 17	704	0.5-	0.2+	2000 03 04	704	0.0	0.1+
1985 10 20	046	0.7+	1.6+	1998 12 17	704	0.5+	1.5+	2000 03 04	704	0.2-	0.2-
1985 10 22	046	1.0-	0.0	1999 12 17	699	1.2-	0.5+	2000 03 12	704	0.2+	0.2-
1985 10 22	046	0.7-	0.1+	1999 12 17	699	0.7+	0.3+	2000 03 12	704	0.3+	0.1-
1985 10 25	046	0.9+	2.3-	1999 12 17	699	0.8-	1.3+	2000 03 12	704	0.3+	0.1-
1985 10 25	046	(5.2+	1.1+)	2000 02 03	704	0.4+	0.1+	2000 03 12	704	0.4+	0.3+
1998 11 16	704	0.3+	0.5+	2000 02 03	704	0.4+	0.3+	2000 03 12	704	0.0	0.1+
1998 11 16	704	0.3-	1.4-	2000 02 03	704	0.0	0.4+	2000 03 28	704	0.1+	0.2+
1998 11 16	704	1.4+	1.1+	2000 02 03	704	0.4+	0.5+	2000 03 28	704	0.1+	0.3+
1998 11 16	704	0.5+	1.4+	2000 02 03	704	0.4+	0.8+	2000 03 28	704	0.5+	0.3-
1998 11 16	704	0.4+	1.7+	2000 02 04	411	0.3-	0.3+	2000 03 28	704	0.2+	0.6+
1998 12 14	704	0.6+	1.1-	2000 02 04	411	0.5+	0.1-	2000 04 02	704	0.5+	0.6-
1998 12 14	704	0.1+	0.2+	2000 02 05	411	0.4+	0.4+	2000 04 02	704	0.1-	0.3-
1998 12 14	704	0.2-	0.4-	2000 02 05	411	0.1+	0.8+	2000 04 02	704	0.3-	1.1-
1998 12 14	704	0.4-	0.7-	2000 02 11	411	1.2-	0.5-	2000 04 02	704	0.5-	1.1-
1998 12 14	704	0.5-	1.7-	2000 02 11	411	0.6-	0.3+				

(14707)* 2000 CC₂₀ = 1977 CJ₁ = 1998 XW₉₂

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39372)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	49.80152		(2000.0)	P	Q
n	0.08403294	ω	285.67656	+0.13121576	-0.98671244
a	5.1622180	Ω	156.14243	+0.97587637	+0.11155006
e	0.0424808	i	13.70361	+0.17449277	+0.11813186
P	11.73	H	11.3	G 0.15	U 0

Residuals in seconds of arc

1977 02 11	675	0.7-	0.6-	2000 01 05	699	0.0	0.4-	2000 02 02	704	0.1+	0.1-
1977 02 12	675	0.6+	0.7-	2000 01 05	704	0.6+	0.2+	2000 02 02	704	0.2+	0.1+
1995 08 26	809	0.4+	0.8-	2000 01 05	699	1.2+	0.2-	2000 02 02	704	0.6+	0.2+
1995 08 27	809	0.1+	0.8-	2000 01 05	704	0.2-	0.0	2000 02 04	704	0.1+	0.2-
1995 08 29	809	0.1-	0.1+	2000 01 05	704	0.5-	0.6+	2000 02 04	704	0.0	0.2+
1995 08 30	809	0.2-	0.1-	2000 01 05	699	0.1-	0.2-	2000 02 04	704	0.3-	0.3-
1998 12 15	704	0.8+	1.1+	2000 01 07	704	0.2+	0.4+	2000 02 04	704	0.5+	0.4+
1998 12 15	704	1.3+	0.5+	2000 01 07	704	0.2-	0.1-	2000 02 27	703	0.1-	0.0
1998 12 15	704	0.7-	0.2+	2000 01 07	704	0.5-	0.1-	2000 02 27	703	0.6+	0.2-
1998 12 15	704	1.0+	0.1-	2000 01 07	704	0.3+	0.6-	2000 02 27	703	0.2+	0.1-
1998 12 15	704	1.2-	0.3-	2000 01 07	704	0.5-	0.6-	2000 02 27	703	0.0	0.1-
1998 12 22	704	0.0	1.8-	2000 02 02	703	0.3-	0.2+	2000 03 05	704	0.1-	0.4-
1998 12 22	704	1.4-	1.1+	2000 02 02	704	0.4+	0.2-	2000 03 05	704	0.5+	0.1-
1998 12 22	704	0.8+	0.4+	2000 02 02	703	0.5-	0.1-	2000 03 05	704	0.3-	0.1+
1998 12 22	704	0.8-	0.1+	2000 02 02	703	0.8+	0.1-	2000 03 05	704	0.4-	0.3-
2000 01 05	704	0.8-	0.4+	2000 02 02	704	0.3+	0.0	2000 03 05	704	1.7-	0.7+
2000 01 05	704	0.2-	0.3+	2000 02 02	703	0.2-	0.1-				

2000 APR. 18

M.P.C. 39907

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	130.90040		(2000.0)	P	Q
<i>n</i>	0.29461937	ω	187.93225	+0.99927067	+0.03683494
<i>a</i>	2.2368070	Ω	169.94031	-0.03110300	+0.93806586
<i>e</i>	0.2324520	<i>i</i>	3.30356	-0.02215257	+0.34449329
<i>P</i>	3.35	<i>H</i>	14.5	<i>G</i>	0.15

Residuals in seconds of arc

1978 08 08	095	(0.3+ 3.3+)	2000 01 07	704	0.2-	0.1-	2000 02 11	691	0.4-	0.9-
1985 10 22	095	0.4+ 2.0+	2000 01 07	704	0.3+ 0.4+		2000 02 27	703	0.1-	0.5+
1985 11 11	095	0.6- 0.7-	2000 01 07	704	0.2- 0.7-		2000 02 27	703	0.8+	0.3+
1991 05 17	809	0.0 0.3+	2000 01 07	704	0.3+ 0.8-		2000 02 27	703	0.2-	0.2+
1991 05 17	809	0.6- 0.6+	2000 01 07	704	0.4- 2.0-		2000 02 27	703	1.1-	0.3+
1991 05 17	809	0.5+ 0.9-	2000 02 02	704	0.5+ 0.4+		2000 02 29	704	0.2+	0.5-
1998 06 24	704	0.1- 0.7+	2000 02 02	704	0.8+ 0.0		2000 02 29	704	0.0	0.0
1998 06 24	704	0.6+ 0.6-	2000 02 02	704	0.1+ 0.4+		2000 02 29	704	0.9+	0.0
1998 06 24	704	0.5- 1.1+	2000 02 02	704	0.6+ 0.2+		2000 02 29	704	0.7-	0.1+
1998 06 24	704	1.1+ 1.2+	2000 02 02	704	0.6+ 0.2+		2000 02 29	704	0.4+	0.3+
1998 06 24	704	1.0+ 1.4+	2000 02 04	704	0.5- 0.8+		2000 03 03	704	0.2-	0.3+
1998 06 26	704	0.3+ 0.2+	2000 02 04	704	0.2- 1.0+		2000 03 03	704	0.5+	0.5+
1998 06 26	704	0.1- 0.3-	2000 02 04	704	0.1+ 1.1+		2000 03 03	704	0.0	0.1+
1998 06 26	704	1.4+ 0.3+	2000 02 04	704	0.0 0.8+		2000 03 03	704	0.0	0.1+
1998 06 26	704	1.1+ 0.5-	2000 02 04	704	0.2+ 0.8+		2000 03 03	704	0.4+	0.1-
1998 06 26	704	0.3+ 0.7-	2000 02 08	691	0.1- 0.5-		2000 03 05	704	0.4-	0.0
1998 07 21	704	(2.9- 0.2+)	2000 02 08	691	0.4- 0.7-		2000 03 05	704	0.2-	0.8+
1998 07 21	704	1.6- 0.0	2000 02 08	691	0.2- 0.6-		2000 03 05	704	0.4-	0.4+
1998 07 21	704	1.7- 0.4-	2000 02 11	691	0.3- 0.8-		2000 03 05	704	0.3+	0.2+
1998 07 21	704	1.6- 0.6-	2000 02 11	691	0.5- 0.9-		2000 03 05	704	0.1+	0.0

(14709)* 2000 CO₂₉ = 1993 RO₂₀ = 1997 TX

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39380)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.36865		(2000.0)	P	Q
<i>n</i>	0.22606640	ω	65.35081	-0.48384165	+0.87513469
<i>a</i>	2.6687755	Ω	175.69807	-0.82925362	-0.45624590
<i>e</i>	0.0846038	<i>i</i>	4.62159	-0.27970644	-0.16117989
<i>P</i>	4.36	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1993 09 15	809(61.2- 15.6-)	1998 11 23	699	0.0 0.6+	2000 02 12	704	0.0 0.7-
1993 09 15	809(61.2- 15.6-)	1998 11 23	699	0.6+ 0.3+	2000 02 12	704	0.2+ 0.2+
1993 09 15	809(60.9- 13.6-)	1998 11 24	704	0.5+ 0.3+	2000 02 12	704	0.0 0.3+
1993 09 20	691 0.3- 0.7+	1998 11 24	704	(2.8+ 1.7+)	2000 02 12	704	0.9- 1.1+
1993 09 20	691 0.0 0.4+	1998 11 24	704	0.1- 0.4+	2000 02 13	704	(3.8- 3.4-)
1993 09 20	691 0.1+ 0.5+	1998 11 24	704	0.2+ 0.9+	2000 02 13	704	(3.1- 0.3-)
1993 09 22	809 1.2- 0.8-	1998 11 24	704	(2.9- 1.7+)	2000 02 13	704	0.7- 1.5+
1993 09 22	809 0.2+ 1.0-	1998 12 11	699	0.9+ 0.8-	2000 02 13	704	(1.3+ 4.2+)
1993 09 22	809 0.5- 1.9-	1998 12 11	699	0.6+ 0.5-	2000 02 29	704	0.1+ 0.1+
1993 09 23	675 0.8+ 0.8+	1998 12 11	699	0.7- 0.2-	2000 02 29	704	0.2- 0.0
1993 09 23	675 0.8+ 1.7+	1999 12 05	704	0.6- 0.8-	2000 02 29	704	0.2- 0.2+
1997 10 03	910 0.0 0.4+	1999 12 05	704	1.0- 0.5-	2000 02 29	704	0.1- 0.3+
1997 10 03	910 0.1- 0.4+	1999 12 05	704	0.7- 0.3+	2000 02 29	704	0.5- 0.3+
1997 10 03	910 0.1+ 0.4+	1999 12 05	704	0.5- 0.3+	2000 03 03	704	0.2+ 0.2+
1997 10 04	910 0.1- 0.2+	1999 12 05	704	0.9- 0.4+	2000 03 03	704	0.6+ 0.5+
1997 10 04	910 0.5- 0.7+	2000 02 02	704	0.2+ 0.2+	2000 03 03	704	0.6+ 0.2-
1997 10 04	910 0.1- 0.5+	2000 02 02	704	0.2+ 0.1+	2000 03 03	704	0.6+ 0.5-
1998 10 20	699 0.0 0.1-	2000 02 02	703	0.2- 0.2+	2000 03 03	704	0.7+ 0.6-
1998 10 20	699 0.4- 0.1-	2000 02 02	704	0.4+ 0.0	2000 03 09	608	0.1+ 1.0-
1998 10 20	699 0.5- 0.6-	2000 02 02	703	0.1+ 0.1+	2000 03 09	608	0.3+ 0.9-
1998 11 10	704 0.3+ 0.1-	2000 02 02	704	0.3+ 0.0	2000 03 09	608	0.1+ 1.0-
1998 11 10	704 1.0- 0.2+	2000 02 02	703	0.4- 0.3-	2000 03 11	704	0.1+ 0.0
1998 11 10	704 (0.6+ 2.9-)	2000 02 02	703	0.1+ 0.4-	2000 03 11	704	0.0 0.2+
1998 11 10	704 (2.3+ 1.4-)	2000 02 02	704	0.8+ 0.2-	2000 03 11	704	0.1- 0.5+

1998 11 18	704	0.7+ 0.2+	2000 02 04	704	0.1+ 0.4+	2000 03 11	704	0.2- 0.7+
1998 11 18	704	0.4+ 0.7-	2000 02 04	704	0.2- 0.3-	2000 03 11	704	0.3- 0.5+
1998 11 18	704	0.3- 0.3-	2000 02 04	704	0.6+ 0.2-	2000 04 02	699	0.6+ 0.5-
1998 11 18	704	0.3- 0.9-	2000 02 04	704	1.0- 0.7+	2000 04 02	699	0.5+ 0.3-
1998 11 18	704	(2.4- 2.0-)	2000 02 04	704	0.6- 0.9+	2000 04 02	699	0.4+ 0.0
1998 11 23	699	0.4- 1.0+	2000 02 12	704	0.7+ 0.6+	2000 04 02	699	0.5+ 0.3+

(14710)* 2000 CC₃₃ = 1984 BU₃ = 1997 GN₅ = 1998 SK₃₂

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39384)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	15.30729		(2000.0)	P	Q
<i>n</i>	0.31066771	ω	295.37607	-0.72805411	-0.68550141
<i>a</i>	2.1590961	Ω	201.35004	+0.63378839	-0.67031347
<i>e</i>	0.0541443	<i>i</i>	0.78750	+0.26124603	-0.28419655
<i>P</i>	3.17	<i>H</i>	16.6	<i>G</i>	0.15

Residuals in seconds of arc

1984 01 25	675	0.5- 0.9-	2000 02 02	703	(3.4+ 1.5+)	2000 03 08	704	0.6+ 0.8+
1984 01 26	675	0.1+ 0.8-	2000 02 02	704	0.1- 0.4-	2000 03 08	704	0.0 0.5-
1997 04 08	691	0.1- 0.4-	2000 02 02	704	1.9- 0.9-	2000 03 08	704	0.3- 0.2+
1997 04 08	691	0.2- 0.4-	2000 02 02	704	0.9+ 0.0	2000 03 08	704	0.6+ 0.0
1997 04 08	691	0.1- 0.4-	2000 02 02	704	0.4- 0.1+	2000 03 09	704	0.7+ 0.5-
1997 04 09	691	0.4- 1.0+	2000 02 03	691	0.3- 0.7-	2000 03 09	704	0.4+ 0.2+
1997 04 09	691	0.1+ 0.3+	2000 02 03	691	0.4- 0.7-	2000 03 09	704	0.2+ 0.2-
1997 04 09	691	0.1- 0.6+	2000 02 03	691	0.4- 0.8-	2000 03 09	704	1.0+ 0.0
1997 04 15	691	0.1- 0.4-	2000 02 04	704	0.3+ 1.0+	2000 03 09	704	0.4+ 0.5-
1997 04 15	691	0.3+ 0.7-	2000 02 04	704	0.1- 0.4+	2000 03 11	704	1.2- 0.0
1997 04 15	691	0.0 0.8-	2000 02 04	704	0.4+ 0.9+	2000 03 11	704	0.6- 1.2+
1998 09 23	691	0.4- 0.1+	2000 02 25	703	0.2+ 0.8+	2000 03 11	704	0.7- 0.1+
1998 09 23	691	0.4- 0.6-	2000 02 25	703	0.5- 0.8+	2000 03 11	704	0.3- 0.6+
1998 09 23	691	0.3- 0.1-	2000 02 25	703	1.0- 0.0	2000 03 11	699	0.7- 0.9+
1998 09 26	691	0.1+ 0.3+	2000 02 25	703	0.8+ 0.5+	2000 03 11	699	0.9- 0.8+
1998 09 26	691	0.6+ 0.0	2000 02 29	704	0.6+ 0.5+	2000 03 11	699	0.2- 0.3-
1998 09 26	691	0.6+ 0.1-	2000 02 29	704	0.1+ 0.1+	2000 03 11	699	0.4- 0.3+
2000 02 01	703	0.5+ 0.0	2000 02 29	704	0.8+ 0.5-	2000 04 11	691	0.3+ 0.2-
2000 02 01	703	0.8- 0.5+	2000 02 29	704	0.9+ 0.4-	2000 04 11	691	0.1+ 0.5-
2000 02 01	703	0.3+ 0.3+	2000 03 03	704	0.1+ 0.3+	2000 04 11	691	0.0 0.5-
2000 02 01	703	1.0+ 0.1-	2000 03 03	704	0.0 0.1+	2000 04 12	691	0.2- 1.3-
2000 02 02	703	0.4+ 0.3-	2000 03 03	704	0.1- 0.9+	2000 04 12	691	0.1- 0.6-
2000 02 02	703	1.3- 0.1+	2000 03 03	704	0.4+ 0.5+	2000 04 12	691	0.3+ 0.7-
2000 02 02	703	1.3+ 1.7-	2000 03 03	704	0.2+ 0.8+			

(14711)* 2000 CG₃₆ = 1979 OA₆

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. S. Nakano (*MPC* 39388)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	277.50008		(2000.0)	P	Q
<i>n</i>	0.22174123	ω	298.08165	-0.40519898	+0.90961262
<i>a</i>	2.7033674	Ω	307.71918	-0.79280843	-0.39958776
<i>e</i>	0.0550313	<i>i</i>	6.66095	-0.45526759	-0.11372995
<i>P</i>	4.44	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1979 07 24	675	1.3- 0.9+	1999 12 05	704	0.6+ 0.2-	2000 02 12	704	1.0- 0.3-
1979 07 25	675	0.4+ 1.9+	1999 12 05	703	0.6- 0.1-	2000 02 12	704	0.5- 0.4+
1995 01 02	010	(2.8- 1.8-)	2000 01 05	704	0.4+ 0.4-	2000 03 11	699	0.1- 0.3+
1995 01 02	010	(3.4- 1.7-)	2000 01 05	704	0.8+ 0.4-	2000 03 11	699	0.6- 0.1-
1997 09 01	566	0.0 0.0	2000 01 05	704	0.3- 0.5+	2000 03 11	699	0.7- 0.2-
1997 09 01	566	0.1- 0.0	2000 01 05	704	0.1+ 1.8-	2000 03 11	699	0.9- 0.3-
1997 09 01	566	0.2+ 0.2-	2000 02 02	704	0.3+ 0.5+	2000 03 13	704	0.1- 0.0
1998 12 14	704	1.0+ 0.4+	2000 02 02	704	0.4+ 0.3+	2000 03 13	704	0.7+ 0.2-
1998 12 14	704	0.3+ 0.0	2000 02 02	704	0.5+ 0.9+	2000 03 13	704	0.9+ 0.1-

1998 12 14	704	1.2−	0.5+	2000 02 02	704	0.6+	1.5+	2000 03 13	704	0.5+	0.6−
1998 12 14	704	(4.8−	0.1−)	2000 02 02	704	0.9+	0.2+	2000 04 04	699	0.4−	0.3−
1998 12 24	699	0.5−	1.1+	2000 02 05	704	0.4+	0.3+	2000 04 04	699	0.4+	0.2−
1998 12 24	699	(2.2−	2.8+)	2000 02 05	704	0.4−	0.8+	2000 04 04	699	0.1+	0.3−
1998 12 24	699	(1.6−	2.6+)	2000 02 05	704	0.1−	0.6+	2000 04 04	699	0.7−	0.2+
1999 12 05	704	0.2−	0.5−	2000 02 06	704	1.0−	1.3−	2000 04 05	704	0.0−	0.2+
1999 12 05	704	0.4+	1.3+	2000 02 06	704	0.9+	0.0	2000 04 05	704	0.3−	0.3+
1999 12 05	704	0.2+	0.2−	2000 02 06	704	1.0+	0.9−	2000 04 05	704	0.1+	1.3+
1999 12 05	703	0.9−	0.5−	2000 02 06	704	0.7+	0.6−	2000 04 05	704	0.5−	0.5−
1999 12 05	704	0.4−	0.6+	2000 02 12	704	(0.1−	2.7+)	2000 04 05	704	0.7+	0.8+
1999 12 05	703	0.1+	0.1−	2000 02 12	704	(1.0+	3.2+)				
1999 12 05	703	0.9−	0.5−	2000 02 12	704	0.5−	1.2+				

(14712)* 2000 CO₅₁ = 1987 SZ₁₃ = 1997 QD₃ = 1998 XQ₃₈

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39396, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	143.97527		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18890169	<i>ω</i>	58.00015		+0.97969922		−0.14741643
<i>a</i>	3.0082377	<i>Ω</i>	310.10391		+0.06145031		+0.86589872
<i>e</i>	0.1323532	<i>i</i>	10.23132		+0.19082271		+0.47800397
<i>P</i>	5.22	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1987 09 22	095	0.7+	0.8−	1998 12 17	704	0.2−	0.4+
1992 08 24	675	0.9−	0.2−	1998 12 17	704	0.5+	0.2+
1992 08 24	675	0.7+	0.7−	1998 12 17	704	(2.0+	2.0−)
1997 08 30	566	0.0	0.3+	1998 12 17	704	0.6−	0.2−
1997 08 30	566	0.1+	0.6+	2000 02 02	704	0.0	0.2+
1997 08 30	566	0.1+	0.4+	2000 02 02	704	0.4+	0.3−
1997 09 02	566	0.2+	0.2−	2000 02 02	704	0.2−	0.4+
1997 09 02	566	0.3+	0.2−	2000 02 02	704	0.5−	0.6−
1997 09 02	566	0.2+	0.1−	2000 02 02	704	0.6−	0.8−
1997 09 03	625	1.7−	1.6+	2000 02 06	704	0.2+	0.1+
1997 09 03	625	1.1−	1.6+	2000 02 06	704	0.1−	0.0
1998 11 16	704	0.7+	0.5+	2000 02 06	704	0.2−	0.1−
1998 11 16	704	0.6−	0.2−	2000 02 06	704	0.1−	0.5−
1998 11 16	704	0.9−	0.8−	2000 02 07	704	0.1−	0.9−
1998 11 16	704	0.8+	1.0−	2000 02 07	704	0.3−	0.1−
1998 11 16	704	1.5+	0.8+	2000 02 07	704	0.5−	0.1−
1998 12 14	704	(4.0−	0.0)	2000 02 07	704	0.3+	0.6+
1998 12 14	704	2.0−	0.7+	2000 02 07	704	0.2−	0.5+
1998 12 14	704	0.8+	1.1+	2000 03 01	704	1.0+	0.1+
1998 12 14	704	(0.1+	2.1+)	2000 03 01	704	0.4+	0.0

(14713)* 2000 CS₆₃ = 1993 TO₃₉

Discovered 2000 Feb. 2 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39405)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	95.70664		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.22831408	<i>ω</i>	108.70972		+0.25850315		−0.95801178
<i>a</i>	2.6512311	<i>Ω</i>	325.53433		+0.78299380		+0.28300573
<i>e</i>	0.0085057	<i>i</i>	12.66274		+0.56577100		+0.04605631
<i>P</i>	4.32	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1993 10 12	675	0.2+	0.7−	1999 12 09	703	0.3−	0.4+
1993 10 12	675	0.1+	0.0	1999 12 09	703	0.9+	0.6+
1993 10 14	675	0.6+	0.7−	1999 12 09	703	0.5+	0.0
1993 10 14	675	0.4+	0.5−	1999 12 09	703	0.5+	0.2+
1997 09 01	566	0.7−	0.7+	1999 12 09	703	0.5−	0.3+
1997 09 01	566	0.3−	0.4+	1999 12 09	703	0.8+	0.1+
1997 09 01	566	0.2−	1.0+	1999 12 09	703	0.9−	0.0
				2000 03 05	608	0.9−	0.7−
				2000 03 05	608	1.0−	0.7−
				2000 03 05	608	0.8−	1.1−
				2000 03 09	704	0.2+	0.1−
				2000 03 09	704	0.0	0.4−
				2000 03 09	704	0.2+	0.1+
				2000 03 09	704	0.1+	0.0

1998 11 14	704	0.1+	0.8+	1999 12 09	703	0.6+	0.2−	2000 03 09	704	0.1+	0.0
1998 11 14	704	0.8−	0.9+	2000 01 05	704	0.5−	0.3−	2000 03 13	704	0.1+	0.5+
1998 11 14	704	1.3+	1.8−	2000 01 05	704	0.1+	0.2+	2000 03 13	704	0.2+	0.1−
1998 11 14	704	1.3+	1.2−	2000 01 05	704	0.5+	0.6−	2000 03 13	704	0.1+	0.0
1998 11 16	704	1.1−	0.2+	2000 02 02	704	0.3−	0.5+	2000 03 13	704	0.2−	0.1−
1998 11 16	704	0.2−	0.1−	2000 02 02	704	0.0	0.7+	2000 03 13	704	0.3−	0.5−
1998 11 16	704	0.0	0.3+	2000 02 02	704	0.2−	0.5+	2000 04 02	699	0.3−	0.0
1998 11 16	704	0.5+	1.4+	2000 02 02	704	0.2−	0.1+	2000 04 02	699	0.1−	0.1+
1998 11 16	704	(0.9+	4.3+)	2000 02 02	704	1.2−	0.6−	2000 04 02	699	0.7−	0.1+
1999 01 08	704	0.2+	0.5+	2000 02 08	704	0.1+	0.1+	2000 04 02	699	0.2−	0.0
1999 01 08	704	1.6−	0.4−	2000 02 08	704	0.5+	1.1+	2000 04 07	704	(2.8+	0.1−)
1999 01 08	704	0.2−	0.1−	2000 02 08	704	0.9+	0.4+	2000 04 07	704	(2.9+	0.1−)
1999 01 08	704	0.2+	0.4−	2000 02 08	704	0.5+	1.1+	2000 04 07	704	(2.4+	0.0)
1999 11 05	703	0.5+	0.4+	2000 03 01	703	0.2+	0.1+	2000 04 07	704	0.3+	0.8−
1999 11 05	703	0.5+	0.6−	2000 03 01	703	0.1+	0.1+	2000 04 07	704	0.5+	1.0−
1999 11 05	703	0.8+	0.5+	2000 03 01	703	0.1+	0.2+				
1999 11 05	703	0.7+	0.0	2000 03 01	703	0.2−	0.2+				

(14714)* 2000 CQ₆₅ = 1986 TW₈ = 1993 KC₂ = 1997 ME₁₁

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39407)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	249.13030		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.25971715	<i>ω</i>	296.25044		+0.22140468		+0.97515569
<i>a</i>	2.4329637	<i>Ω</i>	346.53530		−0.88337559		+0.19744332
<i>e</i>	0.1786258	<i>i</i>	1.76338		−0.41307085		+0.10043658
<i>P</i>	3.79	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1986 10 02	095	1.1−	0.9+	1998 12 17	704	0.6−	1.0−
1993 05 17	675	1.0+	0.6−	1998 12 17	704	0.9+	1.1+
1993 05 17	675	1.2+	1.3−	1998 12 17	704	0.3+	0.4+
1993 05 19	675	1.2−	1.6−	1998 12 17	704	(2.3+	0.6−)
1993 05 19	675	0.9−	0.2+	1998 12 17	704	(3.5−	1.6−)
1997 06 28	704	0.2+	0.6+	2000 01 13	699	0.1−	1.1+
1997 06 28	704	(2.1+	0.5+)	2000 01 13	699	0.5−	1.1+
1997 06 28	704	0.0	0.8+	2000 01 13	699	0.5+	1.0+
1997 06 29	704	0.2−	0.7+	2000 02 01	703	0.8−	0.3−
1997 06 29	704	0.2+	0.1−	2000 02 01	703	0.7+	0.6−
1997 06 29	704	0.4+	0.4+	2000 02 01	703	0.2−	0.2+
1997 06 29	704	0.1−	0.1−	2000 02 01	703	0.4−	0.3+
1997 06 29	704	0.6+	0.8+	2000 02 04	704	0.1+	0.1+
1997 06 29	704	0.5+	0.6−	2000 02 04	704	0.0	0.2+
1997 06 29	704	1.0−	1.4+	2000 02 04	704	0.6+	0.3+
1997 06 29	704	0.6−	0.5+	2000 02 04	704	0.0	0.2+
1997 06 29	704	1.0−	0.8+	2000 02 04	704	0.0	0.0
1997 06 29	704	0.2−	1.1−	2000 02 08	704	0.3−	0.1+
1997 07 02	704	0.8+	0.1+	2000 02 08	704	0.1−	0.2−
1997 07 02	704	0.0	0.1−	2000 02 08	704	0.4+	0.9−
1997 07 02	704	0.0	0.4−	2000 02 08	704	0.1+	0.5−
1997 07 02	704	0.2−	0.4−	2000 02 08	704	1.1+	0.8+
1997 07 02	704	0.2−	0.4+	2000 02 11	704	0.5+	0.2+
1998 12 14	704	0.7+	0.0	2000 02 11	704	0.2+	0.4+
1998 12 14	704	0.1+	0.5−	2000 02 11	704	0.1+	0.1+
1998 12 14	704	0.4−	0.8−	2000 02 11	704	0.3−	0.2+
1998 12 14	704	0.6+	0.0	2000 02 11	704	0.5+	0.1+
1998 12 14	704	(3.7−	2.5+)	2000 02 25	703	1.0−	0.2+

(14715)* 2000 CD₇₁ = 1988 DN₂ = 1991 RX₁₃ = 1999 BS₁₆

Discovered 2000 Feb. 7 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39409)

2000 APR. 18

M.P.C. 39909

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	283.46979	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17497038	ω 294.33018	-0.30084591	+0.94882547
<i>a</i>	3.1658696	Ω 317.78341	-0.81498168	-0.30808245
<i>e</i>	0.0565099	<i>i</i> 8.21668	-0.49527426	-0.06939330
<i>P</i>	5.63	<i>H</i> 12.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1988 02 21	809	(1.5- 3.0-)	1999 01 19	704	0.5+	0.0	2000 03 08	704	0.2-	0.3-
1988 02 21	809	1.8- 2.3-	1999 01 19	704	0.7+	0.5+	2000 03 08	608	0.7-	1.8-
1988 02 21	809	(1.4- 2.6-)	2000 02 02	704	0.2-	0.3-	2000 03 08	608	(1.0- 2.8-)	
1988 02 23	809	1.1+ 2.4-	2000 02 02	704	0.8+	1.2+	2000 03 08	608	(0.7- 2.1-)	
1988 02 23	809	0.3- 1.9-	2000 02 02	704	0.1+	0.8+	2000 03 13	704	0.2+	0.3+
1988 02 23	809	(0.6- 2.9-)	2000 02 02	704	1.5-	1.6+	2000 03 13	704	0.3-	0.1-
1991 09 13	675	0.1- 1.8-	2000 02 07	704	0.7-	1.5-	2000 03 13	704	0.2+	0.0
1991 09 13	675	0.1- 0.8-	2000 02 07	704	0.4-	1.0-	2000 03 13	704	0.2-	0.1-
1991 09 15	675	0.5- 1.0-	2000 02 07	704	0.1+	0.8-	2000 03 13	704	0.6+	1.4+
1991 09 15	675	0.1- 0.6+	2000 02 07	704	0.9-	0.6-	2000 03 30	703	0.4+	0.4+
1996 07 23	566	0.8+ 0.3-	2000 02 08	704	0.7+	0.2+	2000 03 30	703	0.5+	0.1-
1996 07 23	566	0.7+ 0.2-	2000 02 08	704	0.5+	1.4+	2000 03 30	703	0.4-	0.1+
1996 07 23	566	0.7+ 0.0	2000 02 08	704	0.4+	0.5+	2000 03 30	703	0.2-	0.3-
1998 12 17	704	0.5+ 0.2+	2000 02 08	704	0.7+	0.7+	2000 04 08	704	0.8+	0.1-
1998 12 17	704	0.1+ 0.2-	2000 02 08	704	0.5+	0.9-	2000 04 08	704	0.0	0.4-
1998 12 17	704	0.0 0.1+	2000 03 01	703	0.3+	0.7+	2000 04 08	704	0.3-	0.5-
1998 12 17	704	1.0- 0.6-	2000 03 01	703	0.3-	0.2+	2000 04 08	704	0.1-	0.3-
1999 01 16	704	0.2+ 0.7+	2000 03 01	703	0.2-	0.6+	2000 04 08	704	0.3-	0.6+
1999 01 16	704	0.6+ 0.3-	2000 03 01	703	0.4-	0.3+	2000 04 13	608	0.3-	0.7-
1999 01 16	704	0.3+ 1.6+	2000 03 08	704	0.4-	0.4+	2000 04 13	608	0.6-	0.9-
1999 01 16	704	0.4- 0.3-	2000 03 08	704	0.1-	0.6+	2000 04 13	608	0.4-	0.9-
1999 01 19	704	0.1- 0.8+	2000 03 08	704	0.2+	0.0				
1999 01 19	704	0.2+ 1.1+	2000 03 08	704	0.6+	0.2-				

(14716)* 2000 CX₈₁ = 1969 VL₁ = 1980 TL₄ = 1991 PZ₁₅

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39416)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	180.22379	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17335654	ω 208.70681	+0.84845232	+0.52802490
<i>a</i>	3.1854874	Ω 119.37630	-0.47728906	+0.79296752
<i>e</i>	0.1707013	<i>i</i> 2.38804	-0.22874399	+0.30396090
<i>P</i>	5.69	<i>H</i> 12.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1969 11 13	095	0.9+ 1.0+	1998 12 22	704	0.3-	0.3-	2000 02 29	704	0.6-	0.3+
1980 10 07	675	1.3- 0.9-	1998 12 22	704	1.1-	1.4+	2000 02 29	704	0.4-	0.6+
1980 10 08	675	0.6+ 0.1-	1998 12 22	704	1.1+	0.9+	2000 02 29	704	0.6-	0.5+
1980 10 09	675	0.3+ 0.6+	2000 02 04	704	0.0	0.2+	2000 03 03	704	0.1-	0.7+
1980 10 10	675	0.9- 0.5+	2000 02 04	704	0.1+	0.9+	2000 03 03	704	0.1-	0.3-
1991 08 06	675	0.4- 0.5+	2000 02 04	704	0.1-	0.1-	2000 03 03	704	0.0	0.1-
1991 08 06	675	0.3- 0.9-	2000 02 04	704	0.1-	0.4+	2000 03 03	704	0.0	0.4+
1991 08 10	675	0.3- 0.2+	2000 02 04	704	0.3+	0.9+	2000 03 03	704	0.1-	0.6+
1991 08 10	675	0.1+ 0.6-	2000 02 06	695	0.2+	0.1+	2000 03 05	704	0.8+	0.1-
1997 10 28	704	(1.7+ 3.7-)	2000 02 06	695	0.1+	0.2+	2000 03 05	704	0.2+	0.6-
1997 10 28	704	(2.1+ 2.8-)	2000 02 11	704	0.4+	0.0	2000 03 05	704	0.1+	0.4-
1997 10 28	704	1.5+ 1.2+	2000 02 11	704	0.0	0.3-	2000 03 05	704	0.5+	0.1-
1997 10 28	704	(0.8+ 4.2-)	2000 02 11	704	1.1+	0.9+	2000 03 05	704	0.1+	0.7-
1997 10 30	704	0.7+ 0.6+	2000 02 11	704	0.0	0.5+	2000 03 08	704	0.5+	0.3-
1997 10 30	704	(0.9- 2.8+)	2000 02 11	704	0.9+	0.2+	2000 03 08	704	0.6+	0.0
1997 10 30	704	0.7+ 0.7+	2000 02 11	704	0.0	0.6-	2000 03 08	704	0.3-	1.1-
1997 10 30	704	0.6- 0.9+	2000 02 11	704	0.3+	1.0+	2000 03 08	704	0.2-	0.3-
1997 10 30	704	1.6- 0.9+	2000 02 11	704	0.1+	0.6-	2000 03 08	704	0.2+	0.1-
1998 12 15	704	0.6- 1.2-	2000 02 11	704	0.4+	0.6+	2000 03 11	704	0.3+	0.1-
1998 12 15	704	0.5+ 1.6-	2000 02 25	703	0.4-	0.3-	2000 03 11	704	0.6+	0.4-
1998 12 15	704	0.9- 1.4-	2000 02 25	703	1.0-	0.3+	2000 03 11	704	0.4+	0.4+

1998 12 15	704	0.3-	1.4-	2000 02 25	703	1.0-	0.3+	2000 03 11	704	0.2+	0.5+
1998 12 15	704	0.4-	1.1-	2000 02 25	703	0.4-	0.1-	2000 03 11	704	0.2+	0.4+
1998 12 22	704	0.9-	1.8+	2000 02 29	704	0.0	0.4+				
1998 12 22	704	0.6+	1.9-	2000 02 29	704	0.1-	0.2+				

(14717)* 2000 CJ₈₂ = 1983 CP₅ = 1983 EX₃ = 1986 VD₂ = 1998 XS₇₉

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39417)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	312.27066	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17489982	ω 78.90622	-0.83865203	+0.53404168
<i>a</i>	3.1667211	Ω 133.26958	-0.53926364	-0.78651212
<i>e</i>	0.1458773	<i>i</i> 8.45517	-0.07653430	-0.31015829
<i>P</i>	5.64	<i>H</i> 12.5	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1983 02 14	381	1.0+ 0.5-	1999 12 05	704	0.8+	0.0	2000 02 11	704	0.4+	0.3+
1983 03 15	095	0.7- 0.8-	1999 12 05	703	0.3+	0.1-	2000 02 11	704	0.2+	0.5+
1986 11 03	010	1.2- 1.9-	1999 12 05	704	1.4-	0.8-	2000 02 25	703	0.3-	0.0
1986 11 03	010	1.5+ 0.4-	1999 12 05	703	0.2-	0.1-	2000 02 25	703	0.4-	0.3-
1986 11 03	010	0.2- 1.6-	1999 12 05	703	0.6+	0.2+	2000 02 25	703	0.0	0.4+
1997 10 30	566	0.3+ 0.3-	1999 12 05	703	0.1+	0.2+	2000 02 25	703	0.3-	0.0
1997 10 30	566	0.3+ 0.5+	2000 01 04	704	(0.6- 2.1-)		2000 02 28	704	0.1-	0.5-
1997 10 30	566	0.3+ 0.1+	2000 01 04	704	1.0+	0.1+	2000 02 28	704	0.3-	0.4-
1998 12 15	704	0.1- 0.7+	2000 01 04	704	0.1-	0.7+	2000 02 28	704	0.3-	0.3-
1998 12 15	704	0.2- 0.5+	2000 01 07	704	0.6+	0.6-	2000 02 28	704	0.3-	0.2-
1998 12 15	704	0.4- 0.5+	2000 01 07	704	0.6+	0.8-	2000 02 28	704	0.2-	0.1-
1998 12 15	704	0.1+ 0.9+	2000 01 07	704	0.1+	1.0-	2000 03 05	704	0.2-	0.1-
1998 12 15	704	1.3- 1.0+	2000 01 07	704	0.0	0.3+	2000 03 05	704	0.3-	0.0
1998 12 22	704	0.7- 0.5+	2000 01 13	699	0.6+	0.1+	2000 03 05	704	0.2-	0.4+
1998 12 22	704	1.3+ 0.6-	2000 01 13	699	0.5+	0.4-	2000 03 05	704	0.0	0.2+
1998 12 22	704	0.6+ 0.9-	2000 01 13	699	0.5+	0.3-	2000 03 05	704	0.2-	0.2+
1998 12 22	704	0.9+ 0.6-	2000 01 29	703	0.1+	0.0	2000 03 09	608	0.3+	0.6-
1999 01 07	699	0.7- 1.2+	2000 01 29	703	0.1-	0.9+	2000 03 09	608	0.3+	0.5-
1999 01 07	699	0.6- 0.1+	2000 01 29	703	0.3+	0.0	2000 03 09	608	0.2+	0.4-
1999 01 07	699	0.0 0.0	2000 01 29	703	(0.5+ 6.6-)		2000 03 11	699	0.2-	0.1-
1999 01 23	699	0.4+ 0.3+	2000 02 04	704	0.4+	0.1-	2000 03 11	699	0.2-	0.1+
1999 01 23	699	0.3+ 0.1+	2000 02 04	704	0.4-	0.1-	2000 03 11	699	0.5-	0.4-
1999 01 23	699	0.4+ 0.6-	2000 02 04	704	0.7-	0.0	2000 03 11	699	0.7-	0.2-
1999 11 04	703	0.2- 0.2-	2000 02 04	704	0.2+	0.4+	2000 03 12	704	0.6+	0.4-
1999 11 04	703	1.0- 1.5+	2000 02 04	704	1.2-	0.2+	2000 03 12	704	0.2-	0.8+
1999 11 04	703	0.8- 0.7-	2000 02 11	704	0.3+	0.4+	2000 03 12	704	0.2+	0.2-
1999 11 04	703	0.7+ 0.4+	2000 02 11	704	0.4+	0.4+	2000 03 12	704	0.3+	0.2-
1999 12 05	704	0.4+ 0.6+	2000 02 11	704	0.3+	0.2+	2000 03 12	704	0.4-	0.3-

(14718)* 2000 CX₈₃ = 1979 QS₃ = 1991 VV₄ = 1991 WL = 1991 YZ₁
= 1998 QS₂₃

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39419)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	51.89954	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25956573	ω 99.45907	+0.12920629	-0.99156261
<i>a</i>	2.4339098	Ω 343.10648	+0.89509128	+0.12116021
<i>e</i>	0.1788400	<i>i</i> 2.06193	+0.42675207	+0.04608455
<i>P</i>	3.80	<i>H</i> 14.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1979 08 22	809	0.5- 0.3+	1999 12 06	704	0.6+	0.0	2000 02 29	704	0.3+	0.1+
1979 08 22	809	0.6- 0.2+	1999 12 06	704	0.1+	0.3-	2000 02 29	704	0.1+	0.0
1979 08 22	809	0.8- 0.2-	1999 12 06	704	0.2+	0.4-	2000 03 03	704	0.4+	0.2+
1979 08 23	809	0.2- 0.5-	1999 12 06	704	0.4-	0.1+	2000 03 03	704	0.2+	0.2+
1979 08 23	809	0.3- 0.5-	1999 12 06	704	0.1+	0.4-	2000 03 03	704	0.3+	0.3+

1979 08 26	809	1.0+	0.2-	1999 12 18	120	0.6-	0.9+	2000 03 03	704	0.2+	0.4+
1979 08 26	809	1.4+	0.2+	1999 12 18	120	0.5+	0.0	2000 03 03	704	0.3+	0.3+
1979 08 26	809	0.6+	0.3-	1999 12 18	120	0.3-	0.9+	2000 03 05	704	0.3+	0.1+
1991 11 09	402	(2.5+ 1.2-)		2000 01 13	699	0.9+	0.4+	2000 03 05	704	0.2+	0.2+
1991 11 09	402	0.1+	0.4-	2000 01 13	699	0.1+	0.6+	2000 03 05	704	0.5+	0.1-
1991 11 30	402	0.4+	1.3-	2000 01 13	699	0.1+	0.5+	2000 03 05	704	0.3+	0.4-
1991 11 30	402	0.3+	0.1+	2000 02 02	703	0.3-	0.3+	2000 03 05	704	0.4+	0.5-
1991 12 28	033	1.0-	0.5+	2000 02 02	703	0.6-	0.5+	2000 03 05	608	0.0	1.0-
1998 08 17	704	0.2+	1.1+	2000 02 02	703	0.2+	0.4-	2000 03 05	608	0.1-	1.1-
1998 08 17	704	1.0-	1.1-	2000 02 02	703	0.1+	0.4+	2000 03 05	608	0.1-	1.2-
1998 08 17	704	0.0	0.4+	2000 02 04	704	0.4+	0.3+	2000 03 11	704	0.1+	0.1-
1998 08 17	704	0.3-	0.1+	2000 02 04	704	0.3+	0.6+	2000 03 11	704	0.1+	0.0
1998 08 17	704	0.2+	0.5+	2000 02 04	704	0.0	0.5+	2000 03 11	704	0.2+	0.2+
1998 08 23	704	0.0	1.2+	2000 02 04	704	0.5+	0.5+	2000 03 11	704	0.1-	0.3+
1998 08 23	704	0.3-	1.4+	2000 02 04	704	0.4+	1.0+	2000 03 11	704	0.4-	0.1+
1998 08 23	704	0.7-	0.4+	2000 02 11	704	0.3-	0.1+	2000 03 11	699	0.0	0.0
1998 08 23	704	0.2+	0.3-	2000 02 11	704	0.5-	0.2+	2000 03 11	699	0.1-	0.2-
1998 08 23	704	(1.2- 2.7+)		2000 02 11	704	0.7-	0.0	2000 03 11	699	0.3-	0.1-
1999 11 16	704	0.7-	0.3+	2000 02 11	704	0.6-	0.3-	2000 03 11	699	0.3-	0.1-
1999 11 16	704	0.2+	0.1-	2000 02 11	704	0.7-	0.1+	2000 03 12	691	0.7-	0.3-
1999 11 16	704	0.4+	0.1+	2000 02 29	704	0.3+	0.0	2000 03 12	691	0.8-	0.2-
1999 11 16	704	1.5+	0.0	2000 02 29	704	0.2+	0.0	2000 03 12	691	0.8-	0.4-
1999 11 16	704	0.3+	0.7-	2000 02 29	704	0.3+	0.0				

(14719)* 2000 CB₈₅ = 1980 FK = 1990 DY₈

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39421)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	70.70502	(2000.0)	P	Q	
<i>n</i>	0.29378240	ω	72.78722	+0.33217549	-0.94321493
<i>a</i>	2.2410534	Ω	357.80807	+0.84154038	+0.29744217
<i>e</i>	0.1095127	<i>i</i>	3.36661	+0.42599206	+0.14789779
<i>P</i>	3.35	<i>H</i>	14.5	<i>G</i>	0.15

Residuals in seconds of arc

1980 03 16	809	0.0	0.5+	1999 11 17	703	0.1-	1.1-	2000 03 04	704	0.0	0.2-
1980 03 16	809	0.9+	0.3+	2000 01 13	699	0.1+	0.5+	2000 03 04	704	0.4+	0.4-
1980 03 16	809	0.1+	0.5+	2000 01 13	699	0.1-	0.7-	2000 03 04	046	1.1+	0.7+
1980 03 16	809	0.0	1.1+	2000 01 13	699	0.7-	0.6+	2000 03 04	046	0.1-	0.4+
1980 03 17	809	0.3+	0.5+	2000 02 02	703	0.2+	0.4-	2000 03 04	046	0.3+	0.2+
1980 03 17	809	0.3-	1.1+	2000 02 02	703	0.6+	0.0	2000 03 04	046	0.2+	1.0-
1980 03 17	809	0.2+	0.5+	2000 02 02	703	0.1+	0.2+	2000 03 04	046	0.7+	0.3-
1980 03 17	809	1.3+	0.7-	2000 02 02	703	0.3-	0.0	2000 03 04	046	0.1+	0.3+
1990 02 25	809	0.6-	0.5-	2000 02 04	704	1.3+	0.6+	2000 03 04	046	0.5+	0.1+
1990 02 25	809	0.6-	0.9-	2000 02 04	704	0.6-	1.7+	2000 03 04	046	0.2+	0.4+
1990 02 25	809	1.1-	1.4-	2000 02 04	704	0.2-	0.2+	2000 03 04	046	0.5+	0.2+
1997 04 01	809	0.3-	0.4+	2000 02 04	704	0.1+	0.0	2000 03 04	046	0.1+	0.2+
1997 04 01	809	0.5-	0.6-	2000 02 04	704	0.0	0.2-	2000 03 04	046	0.4+	0.3+
1997 04 01	809	0.5-	1.1-	2000 02 11	704	0.5+	0.0	2000 03 04	046	0.3+	0.1+
1998 08 17	704	1.6+	1.4+	2000 02 11	704	0.2-	0.1+	2000 03 05	704	0.0	0.2+
1998 08 17	704	0.2+	1.4+	2000 02 11	704	0.2-	0.2+	2000 03 05	704	0.9+	0.9+
1998 08 17	704	0.2-	1.5+	2000 02 11	704	0.4-	0.1-	2000 03 05	704	0.4+	0.6+
1998 08 17	704	(2.1+ 2.2-)		2000 02 11	704	0.1+	0.2-	2000 03 05	704	0.0	0.5+
1998 08 17	704	1.0-	0.1+	2000 02 25	703	0.8-	0.2+	2000 03 05	704	0.2+	0.3+
1998 08 22	566	0.6-	0.5-	2000 02 25	703	0.7-	0.3-	2000 03 05	046	0.0	0.2+
1998 08 22	566	0.6-	0.6-	2000 02 25	703	0.3+	0.0	2000 03 05	046	0.0	0.5+
1998 08 22	566	0.3-	0.3-	2000 02 25	703	0.0	0.0	2000 03 05	046	0.2-	0.0
1998 09 21	699	0.5-	0.9+	2000 02 28	704	0.0	0.1-	2000 03 05	046	0.3+	0.0
1998 09 21	699	0.4-	0.8+	2000 02 28	704	0.3-	0.4-	2000 03 06	608	0.1+	0.7-
1998 09 21	699	0.3-	0.6+	2000 02 28	704	0.2-	0.0	2000 03 06	608	0.3-	0.2-
1999 11 16	704	1.4-	0.7+	2000 02 28	704	0.4-	0.3-	2000 03 06	608	0.1-	0.0
1999 11 16	704	1.4-	0.7+	2000 03 03	704	0.3+	0.3+	2000 03 11	704	0.2-	0.7-
1999 11 16	704	0.8-	0.3-	2000 03 03	704	0.9-	0.3+	2000 03 11	704	0.1+	0.1-
1999 11 16	704	0.5-	0.5+	2000 03 03	704	0.2+	0.0	2000 03 11	704	0.2-	0.1+
1999 11 16	704	0.5-	0.0	2000 03 03	704	0.9+	0.3-	2000 03 11	704	0.1-	0.1+

1999 11 17	703	0.4+	0.4-	2000 03 03	704	1.3-	0.1+	2000 03 11	704	0.3-	0.4-
1999 11 17	703	2.0+	1.2+	2000 03 04	704	0.1+	0.0				
1999 11 17	703	1.1+	0.1-	2000 03 04	704	0.5+	0.1-				

(14720)* 2000 CQ₈₅ = 1950 RX = 1980 RW₄ = 1998 XX₆₇

Discovered 2000 Feb. 4 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39422)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	267.58586	(2000.0)	P	Q	
<i>n</i>	0.23098246	ω	284.71138	-0.07376612	+0.99468980
<i>a</i>	2.6307730	Ω	340.62168	-0.81140471	-0.10170214
<i>e</i>	0.1575975	<i>i</i>	12.49174	-0.57981113	+0.01577615
<i>P</i>	4.27	<i>H</i>	12.2	<i>G</i>	0.15

Residuals in seconds of arc

1950 09 14	839	0.2+	0.1-	Y	2000 02 04	704	0.5+	0.0	2000 03 05	704	0.2-	0.5+
1980 09 08	095	1.4-	1.6+		2000 02 04	704	0.0	0.8-	2000 03 11	704	0.6+	0.4+
1998 12 14	704	0.3-	0.3-		2000 02 04	704	0.5+	0.3+	2000 03 11	704	0.3-	0.1+
1998 12 14	704	0.3-	0.1-		2000 02 04	704	0.4+	1.0-	2000 03 11	704	0.4-	0.2+
1998 12 14	704	1.3-	0.7+		2000 02 04	704	0.6+	0.5+	2000 03 11	704	0.2-	0.5+
1998 12 14	704	1.5-	1.5-		2000 02 04	704	0.5-	1.2-	2000 03 11	704	0.1+	0.4+
1998 12 14	704	(2.4- 0.3+)			2000 02 04	704	0.4+	0.6+	2000 03 11	699	0.1-	0.1+
1998 12 17	704	0.1-	0.3-		2000 02 11	704	0.3-	0.1-	2000 03 11	699	0.1-	0.3+
1998 12 17	704	0.9-	0.0		2000 02 11	704	0.6-	0.0	2000 03 11	699	0.2-	0.3+
1998 12 17	704	0.2+	0.6+		2000 02 11	704	0.4+	0.7-	2000 03 11	699	0.2-	0.2+
1998 12 17	704	0.6+	0.3-		2000 02 11	704	0.5-	0.1-	2000 03 30	691	0.6-	0.2-
1998 12 17	704	1.0+	0.1-		2000 02 11	704	0.8-	0.5-	2000 03 30	691	0.4-	0.2+
1999 01 08	704	0.2+	0.0		2000 02 25	703	0.1-	0.3+	2000 03 30	691	0.6-	0.2-
1999 01 08	704	1.7+	0.1-		2000 02 25	703	0.0	0.6+	2000 04 03	704	1.1+	0.7+
1999 01 08	704	1.7+	0.1-		2000 02 25	703	0.1-	0.3+	2000 04 03	704	0.3+	0.8-
1999 01 08	704	(5.1- 0.1+)			2000 02 25	703	0.3-	0.4+	2000 04 03	704	0.0	0.7-
1999 12 15	704	0.6-	0.7+		2000 02 29	704	0.5+	0.4+	2000 04 03	704	0.1+	1.1-
1999 12 15	704	2.0+	0.6+		2000 02 29	704	0.3+	0.3+	2000 04 03	704	0.3-	1.8-
1999 12 15	704	0.4-	0.4-		2000 02 29	704	0.3+	0.3+	2000 04 06	691	0.0	0.5-
1999 12 15	704	0.3+	0.7-		2000 02 29	704	0.4+	0.5+	2000 04 06	691	0.1-	0.5-
2000 01 13	699	0.4+	0.4+		2000 02 29	704	0.6-	0.5+	2000 04 06	691	0.1-	0.5-
2000 01 13	699	0.4+	1.0+		2000 03 03	704	0.0	0.5+	2000 04 08	704	0.9+	1.4+
2000 01 13	699	0.1+	0.7+		2000 03 03	704	0.0	0.2+	2000 04 08	704	0.7+	0.8-
2000 02 01	703	0.4-	0.2+		2000 03 03	704	0.1+	0.3+	2000 04 08	704	0.1-	0.0
2000 02 01	703	0.2-	0.2-		2000 03 03	704	0.1-	0.1+	2000 04 08	704	0.2+	0.2+
2000 02 01	703	0.2+	0.0		2000 03 03	704	0.3-	0.1+	2000 04 08	704	1.6-	1.1-
2000 02 01	703	0.2+	0.3+		2000 03 05	704	0.2-	0.3+	2000 04 10	704	0.2-	0.4+
2000 02 04	704	0.4+	0.2-		2000 03 05	704	0.3-	0.4+	2000 04 10	704	1.1+	0.5-
2000 02 04	704	0.6+	0.6+		2000 03 05	704	0.3-	0.4+	2000 04 10	704	0.5-	1.7-
2000 02 04	704	0.7+	0.0		2000 03 05	704	0.1-	0.3+				

(14721)* 2000 CW₉₁ = 19

2000 APR. 18

M.P.C. 39911

1998 11 13	704	0.2+	0.3-	2000 02 11	704	0.6-	0.7+	2000 03 06	704	0.7-	1.2-
1998 11 13	704	0.4-	0.9+	2000 02 11	704	0.6-	0.2-	2000 03 11	704	0.2-	0.4+
1998 11 13	704	0.5-	0.6+	2000 02 11	704	0.3+	0.2+	2000 03 11	699	0.2-	0.1+
1998 11 13	704	0.3-	0.6+	2000 02 11	704	0.1-	0.7+	2000 03 11	704	0.0	0.6+
1998 11 13	704	0.9-	0.3+	2000 02 11	704	0.5-	0.2-	2000 03 11	699	0.7-	0.1+
1998 12 19	704	0.0	0.5-	2000 02 16	703	0.2+	0.4-	2000 03 11	704	0.1-	0.5+
1998 12 19	704	0.0	0.6-	2000 02 16	703	0.2-	0.1-	2000 03 11	704	0.1+	0.7+
1998 12 19	704	0.1-	0.1+	2000 02 16	703	0.9+	0.2-	2000 03 11	699	0.6-	0.1+
1998 12 19	704	0.9-	0.2-	2000 02 16	703	0.4-	0.1+	2000 03 11	704	0.1+	0.7+
1998 12 19	704	0.1+	0.5+	2000 02 26	703	0.3-	0.1-	2000 03 11	699	0.5-	0.1+
1999 01 07	704	1.4+	0.7-	2000 02 26	703	0.6-	1.0-	2000 04 03	704	0.3-	0.1-
1999 01 07	704	0.4+	0.9+	2000 02 26	703	1.8+	0.2-	2000 04 03	704	0.2-	0.5-
1999 01 07	704	(0.6-	2.8-)	2000 02 26	703	0.5+	0.8+	2000 04 03	704	0.3-	0.5-
1999 01 07	704	(4.8-	0.6-)	2000 02 29	704	0.5-	0.3+	2000 04 03	704	0.1-	0.3-
1999 01 09	699	0.6+	0.7-	2000 02 29	704	0.0	0.1+	2000 04 03	704	0.2+	0.0
1999 01 09	699	0.2+	0.5-	2000 02 29	704	0.2+	0.4-	2000 04 07	608	0.1+	0.8-
1999 01 09	699	0.4+	0.0	2000 02 29	704	0.0	0.2-	2000 04 07	608	0.2-	0.6-
1999 02 04	704	0.1-	0.5-	2000 02 29	704	0.7-	0.0	2000 04 07	608	0.2-	0.8-
1999 02 04	704	0.4-	1.0+	2000 03 03	704	0.3+	0.0				

(14722)* 2000 CK₉₂ = 1977 CU₁ = 1987 YM₅ = 1991 RV₁₅ = 1998 XP₅₁

Discovered 2000 Feb. 6 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39429)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	222.04679		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17514276	ω	322.17960	+0.64263312	+0.76545260
a	3.1637920	Ω	347.68939	-0.65942929	+0.53048942
e	0.0804593	i	8.96948	-0.39009703	+0.36422972
P	5.63	H	12.5	G 0.15	U 1

Residuals in seconds of arc

1977 02 11	675	0.0	0.0	2000 02 11	704	0.3+	0.6+	2000 03 03	691	0.7-	0.2-
1977 02 12	675	0.1+	0.2+	2000 02 11	704	0.1+	0.6+	2000 03 03	691	0.7-	0.2-
1987 12 24	010	(1.5-	5.0+)	2000 02 11	704	0.1+	0.4+	2000 03 03	691	0.7-	0.2-
1987 12 24	010	(1.8-	6.8+)	2000 02 11	704	0.9-	0.3+	2000 03 12	691	0.0	0.5-
1991 09 11	675	1.8+	1.9-	2000 02 16	703	0.3+	0.1+	2000 03 12	691	0.3-	0.5-
1991 09 11	675	0.6-	1.9-	2000 02 16	703	0.3-	0.7+	2000 03 12	691	0.1-	0.4-
1991 09 15	675	0.7+	0.8+	2000 02 16	703	0.5-	0.3+	2000 03 14	691	0.1+	0.3-
1991 09 15	675	(0.2+	2.3-)	2000 02 16	703	0.1+	0.3-	2000 03 14	691	0.0	0.3-
1998 12 14	704	0.2+	0.0	2000 02 25	691	0.3-	0.6-	2000 03 14	691	0.1+	0.3-
1998 12 14	704	0.4-	0.7+	2000 02 25	691	0.3-	0.7-	2000 03 15	704	0.1-	0.2+
1998 12 14	704	0.4-	1.6-	2000 02 25	691	0.5-	0.5-	2000 03 15	704	0.2-	0.0
1998 12 14	704	0.7-	0.9-	2000 02 26	703	0.3+	1.0-	2000 03 15	704	0.6-	0.2-
1998 12 17	704	0.3-	0.6+	2000 02 26	703	0.3-	0.5+	2000 03 15	704	0.0	0.2-
1998 12 17	704	0.8-	0.3-	2000 02 26	703	0.2-	0.7+	2000 03 15	704	1.2-	0.1+
1998 12 17	704	0.7+	0.2-	2000 02 26	703	0.7-	0.6+	2000 04 02	699	0.4-	0.4-
1998 12 17	704	0.7+	0.4-	2000 02 29	704	0.1+	0.2+	2000 04 02	699	0.2-	0.4-
1998 12 17	704	0.9-	0.5-	2000 02 29	704	0.4+	0.3+	2000 04 02	699	0.3-	0.3-
1999 01 19	704	0.1+	1.0+	2000 02 29	704	0.3-	0.3-	2000 04 02	699	0.9-	0.5-
1999 01 19	704	0.7+	0.2+	2000 02 29	704	0.2+	0.1-	2000 04 05	704	0.3+	0.4-
1999 01 19	704	0.9+	0.4+	2000 02 29	704	0.2+	0.3-	2000 04 05	704	0.1+	0.3-
1999 01 19	704	0.5-	1.3+	2000 03 03	704	0.2+	0.2+	2000 04 05	704	0.4+	0.4-
1999 01 19	704	0.6+	0.2-	2000 03 03	691	0.1+	0.3-	2000 04 05	704	0.8+	0.3+
2000 02 06	704	0.3+	0.1+	2000 03 03	704	0.3+	0.0	2000 04 05	704	0.0	0.9-
2000 02 06	704	1.3+	1.0+	2000 03 03	704	0.2+	0.2+	2000 04 08	704	0.2+	1.1-
2000 02 06	704	0.3+	0.8+	2000 03 03	691	0.1-	0.2-	2000 04 08	704	0.1-	0.1+
2000 02 06	704	0.2+	0.5+	2000 03 03	704	0.2+	0.4+	2000 04 08	704	0.2+	1.2-
2000 02 06	704	0.1+	0.1+	2000 03 03	691	0.2+	0.1-				
2000 02 11	704	0.4+	0.4+	2000 03 03	704	0.5+	0.3+				

(14723)* 2000 CB₉₃ = 1983 AO₆ = 1992 SD₂₄

Discovered 2000 Feb. 6 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39429)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	66.75028		(2000.0)	P	Q
n	0.17732586	ω	92.29951	+0.08050122	-0.99608991
a	3.1377717	Ω	352.77404	+0.76019696	+0.08497017
e	0.1831600	i	16.81796	+0.64468608	+0.02418602
P	5.56	H	12.6	G 0.15	U 1

Residuals in seconds of arc

1983 01 15	095	0.8-	0.9-	2000 02 11	704	0.6+	0.7+	2000 03 17	049	1.0+	1.3-
1992 09 30	675	0.0	0.4-	2000 02 11	704	0.4+	1.0-	2000 04 03	691	0.7-	0.5-
1992 09 30	675	1.6+	0.4-	2000 02 11	704	0.0	0.1+	2000 04 03	691	0.9-	0.6-
1992 10 02	675	0.1-	0.3-	2000 02 11	704	0.1-	0.3+	2000 04 03	691	1.0-	0.6-
1992 10 02	675	0.4-	0.3-	2000 02 13	120	1.1-	0.9-	2000 04 04	704	0.9+	0.1+
1998 11 14	704	0.6+	0.9-	2000 02 13	120	1.0-	1.0-	2000 04 04	704	0.0	0.1-
1998 11 14	704	0.3+	0.1+	2000 02 14	120	1.0-	0.7-	2000 04 04	704	0.3+	0.3+
1998 11 14	704	0.7-	0.9-	2000 02 14	120	1.3-	1.0-	2000 04 04	704	0.3+	0.3-
1998 11 14	704	1.6+	0.0	2000 02 14	120	(3.4-	0.7-)	2000 04 04	704	0.2-	0.7-
1998 11 14	704	(6.1-	1.0+)	2000 02 14	120	0.0	0.6-	2000 04 05	704	0.4+	0.4+
1998 11 16	704	0.2-	0.2-	2000 02 14	120	0.7-	0.6-	2000 04 05	704	0.4-	0.3+
1998 11 16	704	0.2+	0.4-	2000 02 24	120	(3.1-	1.1+)	2000 04 05	704	0.1+	0.0
1998 11 16	704	0.6-	0.1-	2000 02 24	120	0.0	0.3+	2000 04 05	704	0.4+	0.1-
1998 11 16	704	1.6-	0.8+	2000 02 24	120	0.2-	0.9+	2000 04 05	704	0.1+	0.1+
1999 02 08	704	1.1+	0.2+	2000 02 27	703	0.1-	0.9+	2000 04 06	704	0.1+	0.3-
1999 02 08	704	1.1+	1.2+	2000 02 27	703	0.7-	0.8+	2000 04 06	704	0.4+	0.1-
1999 02 08	704	0.3-	0.3-	2000 02 27	703	1.7-	0.9-	2000 04 06	704	0.4+	0.1+
1999 02 08	704	1.3-	1.7+	2000 02 27	703	1.2+	1.5-	2000 04 06	704	0.6+	0.0
1999 02 08	704	0.5-	0.0	2000 02 29	704	0.3-	1.3+	2000 04 06	704	0.5+	0.1+
2000 01 08	704	0.6-	0.5-	2000 02 29	704	0.2+	0.5+	2000 04 07	704	0.3-	0.2+
2000 01 08	704	0.4+	0.6-	2000 02 29	704	0.2+	1.0+	2000 04 07	704	0.1-	0.1+
2000 01 08	704	0.0	0.4-	2000 03 08	704	0.1-	0.9+	2000 04 07	704	0.4-	0.2+
2000 01 08	704	0.5-	0.0	2000 03 08	704	0.2+	0.7+	2000 04 07	704	0.3-	0.3+
2000 01 08	704	0.2-	0.6-	2000 03 08	704	0.1+	1.4+	2000 04 07	704	0.2+	0.4+
2000 01 13	699	0.6+	1.0+	2000 03 08	704	0.6+	1.1+	2000 04 07	608	0.8+	0.0
2000 01 13	699	0.4+	0.1-	2000 03 08	704	0.1+	1.6+	2000 04 07	608	0.3+	0.9-
2000 01 13	699	0.8+	0.2+	2000 03 11	704	0.4+	0.4+	2000 04 07	608	0.0	0.9-
2000 02 02	703	0.6+	1.4+	2000 03 11	704	0.1+	0.3+	2000 04 08	704	0.5+	0.2+
2000 02 02	703	0.7+	0.7+	2000 03 11	704	0.3-	0.4+	2000 04 08	704	0.2-	0.6+
2000 02 02	703	0.3+	0.2+	2000 03 11	704	0.2-	0.7+	2000 04 08	704	0.6+	0.0
2000 02 02	703	0.3-	0.3+	2000 03 11	704	0.1-	1.2+	2000 04 10	691	0.6+	0.4-
2000 02 06	704	0.9+	0.1-	2000 03 14	691	0.6-	0.6-	2000 04 10	691	0.2-	1.0-
2000 02 06	704	0.2-	0.2-	2000 03 14	691	0.8-	0.6-	2000 04 10	691	0.4-	1.0-
2000 02 06	704	0.5-	0.2+	2000 03 14	691	0.6-	0.6-	2000 04 11	608	0.6-	0.8-
2000 02 06	704	0.1+	0.2-	2000 03 17	049	(1.0+	3.1-)	2000 04 11	608	0.5-	0.6-
2000 02 11	704	0.9+	0.1+	2000 03 17	049	1.1+	1.1-	2000 04 11	608	0.8-	0.7-

(14724)* 2000 CA₁₀₀ = 1992 OS₂ = 1997 NH₉ = 1998 YY₁₇

Discovered 2000 Feb. 10 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 39433)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	189.86455		(2000.0)	P	Q
n	0.19837880	ω	189.88833	+0.68849307	+0.72381210
a	2.9116503	Ω	123.63952	-0.66160552	+0.65255930
e	0.0761347	i	3.13523	-0.29707815	+0.22419279
P	4.97	H	14.1	G 0.15	U 1

1997 07 14	910	0.3−	0.4+	2000 02 10	691	0.0	0.1−	2000 03 03	704	0.4−	0.4+
1997 07 14	910	0.3−	0.4+	2000 02 11	704	0.5+	1.2+	2000 03 04	704	0.3+	0.7+
1998 11 23	699	1.2+	1.3+	2000 02 11	704	0.0	1.3+	2000 03 04	704	0.0	0.2+
1998 11 23	699	0.5−	1.0+	2000 02 11	704	0.0	0.0	2000 03 04	704	1.4+	0.6+
1998 11 23	699	0.3+	1.0+	2000 02 11	704	0.9+	0.5+	2000 03 04	704	0.7+	0.3−
1998 11 24	704	1.0+	0.7+	2000 02 14	691	0.5−	0.6−				
1998 11 24	704	0.7−	1.1−	2000 02 14	691	0.8−	0.8−				

(14725)* 2000 DC₃ = 1986 WS₁₀ = 1995 KO₃ = 1998 XN₄₉

Discovered 2000 Feb. 27 by T. Kobayashi at Oizumi.

Id. G. V. Williams (*MPC* 39438)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	135.43400		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.17110908	<i>ω</i>	338.46830	+0.85516824	−0.49314109		
<i>a</i>	3.2133202	<i>Ω</i>	52.08444	+0.50021788	+0.70434941		
<i>e</i>	0.0619480	<i>i</i>	11.67791	+0.13590201	+0.51059159		
<i>P</i>	5.76	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 11 30	381	0.2+	0.3+	2000 02 04	704	0.0	0.1−	2000 03 10	704	1.2+	1.5+
1986 11 30	381	0.5+	0.2+	2000 02 04	704	0.2+	0.1+	2000 03 10	704	1.5+	0.7+
1986 12 01	381	0.4−	0.3−	2000 02 04	704	1.5+	0.9+	2000 03 10	704	0.9+	0.3+
1986 12 01	381	0.3−	0.1+	2000 02 04	704	0.4+	0.0	2000 03 12	704	0.1−	0.2+
1995 05 25	691	0.2−	0.5−	2000 02 04	704	0.2+	0.1+	2000 03 12	704	0.0	0.4−
1995 05 25	691	0.4−	0.5−	2000 02 27	411	(2.8−	0.9−)	2000 03 12	704	0.5−	0.2+
1995 05 25	691	0.4−	0.3−	2000 02 27	411	(3.5−	0.0)	2000 03 12	704	0.2−	0.2+
1995 05 26	691	0.6−	0.7−	2000 02 28	411	0.7+	0.7+	2000 03 12	704	0.4+	0.7+
1995 05 26	691	0.3−	0.8−	2000 02 28	411	1.4−	0.7+	2000 03 28	704	0.6−	0.4+
1995 05 26	691	0.5−	0.8−	2000 03 05	704	0.2+	0.3+	2000 03 28	704	0.4−	0.7−
1998 12 14	704	0.4+	1.6+	2000 03 05	704	0.1−	1.2+	2000 03 28	704	0.1−	0.9−
1998 12 14	704	0.4+	0.5−	2000 03 05	704	0.6−	0.0	2000 03 28	704	0.2−	0.5−
1998 12 14	704	0.4−	1.4−	2000 03 05	704	0.3−	0.3−	2000 04 04	704	0.1−	0.1+
1998 12 14	704	0.3+	1.2−	2000 03 05	704	0.7−	0.7+	2000 04 04	704	0.6−	0.0
1998 12 14	704	0.1+	0.1−	2000 03 08	704	0.4+	0.2−	2000 04 04	704	0.1+	0.2−
1998 12 17	704	0.3−	0.5−	2000 03 08	704	0.1+	0.2+	2000 04 04	704	0.3−	0.5−
1998 12 17	704	0.3+	1.5−	2000 03 08	704	0.1−	0.4−	2000 04 04	704	0.4+	0.2+
1998 12 17	704	0.9+	0.2+	2000 03 08	704	0.5+	0.1+	2000 04 08	704	0.0	0.4+
1998 12 17	704	0.2+	1.0−	2000 03 08	411	0.1−	1.7−	2000 04 08	704	0.3+	0.1−
1998 12 17	704	0.3−	0.6−	2000 03 08	411	1.6−	0.3−	2000 04 08	704	0.3+	0.8−
1999 01 16	704	0.3+	0.1−	2000 03 09	704	0.0	0.1+	2000 04 08	704	0.4+	0.3+
1999 01 16	704	0.5−	0.4+	2000 03 09	704	0.0	0.2−	2000 04 08	704	0.4+	0.3+
1999 01 16	704	0.1−	0.8+	2000 03 09	704	0.3+	0.1−				
1999 01 16	704	1.6−	0.3−	2000 03 09	704	0.1+	0.3−				

(14726)* 2000 DD₃ = 1991 PR₁₄ = 1998 XP₉₁

Discovered 2000 Feb. 27 by T. Kobayashi at Oizumi.

Id. S. Nakano (*MPC* 39438)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Nakano			
<i>M</i>	100.16368		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.18159635	<i>ω</i>	317.92623	+0.31772578	−0.93803993		
<i>a</i>	3.0883841	<i>Ω</i>	113.12422	+0.90510107	+0.25657365		
<i>e</i>	0.0188234	<i>i</i>	8.65012	+0.28256393	+0.23291856		
<i>P</i>	5.43	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 08 06	675	0.7−	0.8−	1999 01 20	704	0.4+	0.3−	2000 03 12	704	0.2+	0.6+
1991 08 06	675	1.4+	0.9−	1999 01 20	704	0.0	0.2+	2000 03 12	704	0.3+	0.5+
1991 08 10	675	0.2+	0.4+	2000 01 08	704	0.1+	0.1−	2000 03 12	704	0.8+	0.1+
1991 08 10	675	0.5−	0.7−	2000 01 08	704	0.3+	0.1+	2000 03 12	704	0.4+	0.4+
1997 09 30	566	0.3−	0.8+	2000 01 08	704	0.5+	0.3−	2000 03 24	411	0.1−	1.1−
1997 09 30	566	0.1+	1.1+	2000 01 08	704	0.0	0.0	2000 03 24	411	0.4+	0.9−
1997 09 30	566	0.8−	0.9+	2000 01 08	704	0.7+	0.8+	2000 03 28	704	0.2+	0.2+
1998 11 23	704	0.9+	0.3−	2000 02 02	703	0.0	0.1+	2000 03 28	704	0.5+	0.2+
1998 11 23	704	0.3+	0.1−	2000 02 02	703	0.2+	0.4+	2000 03 28	704	0.6+	0.4+
1998 11 23	704	0.6−	0.8−	2000 02 02	703	0.4+	0.2+	2000 03 28	704	0.6+	0.4−

1998 11 23	704	1.5−	1.7−	2000 02 02	703	0.0	0.2+	2000 04 03	704	0.1−	0.2+
1998 11 23	704	(2.8−	0.7−)	2000 02 27	411	1.4−	0.6−	2000 04 03	704	0.1+	0.1+
1998 12 15	704	(3.0−	1.7−)	2000 02 27	411	(2.7−	0.7−)	2000 04 03	704	0.5+	0.3+
1998 12 15	704	0.1−	0.3+	2000 02 28	411	0.2+	0.6−	2000 04 03	704	0.3+	0.3+
1998 12 15	704	0.4−	1.9−	2000 02 28	411	1.7−	1.0−	2000 04 03	704	0.5+	0.9+
1998 12 15	704	0.1+	0.3−	2000 03 06	608	0.2−	0.1+	2000 04 08	704	0.6−	0.3−
1998 12 15	704	0.5−	0.3+	2000 03 06	608	0.2−	0.1+	2000 04 08	704	0.3−	0.1+
1998 12 22	704	1.0−	1.0−	2000 03 06	608	0.2−	0.2+	2000 04 08	704	0.5−	0.2−
1998 12 22	704	0.0	0.9−	2000 03 08	411	0.7−	0.0	2000 04 08	704	0.5−	0.3+
1998 12 22	704	0.4+	1.1−	2000 03 08	411	1.1−	0.2+	2000 04 08	704	0.7−	0.2+
1998 12 22	704	0.9+	1.9+	2000 03 12	703	0.2+	0.0	2000 04 12	608	0.4+	0.3−
1998 12 22	704	0.3−	1.8+	2000 03 12	703	0.2+	0.3+	2000 04 12	608	0.4+	0.3−
1999 01 20	704	0.9+	0.9+	2000 03 12	703	0.1−	0.2+	2000 04 12	608	0.2+	0.1−
1999 01 20	704	0.4−	1.1+	2000 03 12	703	0.1−	0.0				
1999 01 20	704	1.1+	0.0	2000 03 12	704	0.4+	0.1−				

(14727)* 2000 DU₁₁ = 6694 P-L = 1997 MG₆ = 1998 SX₈₅

Discovered 2000 Feb. 27 by Spacewatch at Kitt Peak.

Id. G. V. Williams (*MPC* 39442)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	77.86912		(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.28553379	<i>ω</i>	272.58273	+0.07988621	−0.99677180		
<i>a</i>	2.2840084	<i>Ω</i>	172.82048	+0.93813099	+0.07246516		
<i>e</i>	0.1016872	<i>i</i>	3.67495	+0.33693982	+0.03456555		
<i>P</i>	3.45	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.0	0.5−	1998 09 27	704	(2.8+	0.4+)	2000 03 10	704	0.5+	0.3+
1960 09 24	675	0.6−	0.3+	1998 09 27	704	0.3−	1.7+	2000 03 11	704	0.6+	0.4−
1960 09 26	675	0.5+	0.8−	1998 09 27	704	1.2+	0.0	2000 03 11	704	0.1−	0.4+
1960 09 26	675	0.4+	1.2−	2000 02 27	691	0.5−	0.6−	2000 03 11	704	0.4+	0.0
1960 09 27	675	1.2+	1.7−	2000 02 27	691	0.5−	0.6−	2000 03 11	704	0.7+	0.4+
1960 09 27	675	0.4+	0.1−	2000 02 27	691	0.6−	0.6−	2000 03 11	704	0.9+	0.8+
1960 09 28	675	1.3−	0.7−	2000 03 02	691	0.5−	1.0−	2000 04 05	704	0.1+	0.3+
1960 09 28	675	1.1+	0.1+	2000 03 02	691	0.5−	1.0−	2000 04 05	704	0.4+	0.4+
1997 06 27	691	0.2−	0.3−	2000 03 02	691	0.4−	0.8−	2000 04 05	704	0.6+	0.0
1997 06 27	691	0.0	0.1−	2000 03 03	691	0.2−	0.7−	2000 04 05	704	0.0	0.1−
1997 06 27	691	0.1+	0.3+	2000 03 03	691	0.1+	0.4−	2000 04 05	704	0.4+	0.3+
1997 07 03	691	0.2+	0.0	2000 03 03	691	0.1+	0.9−	2000 04 06	704	0.1−	0.2−
1997 07 03	691	0.2−	0.1−	2000 03 04	688	0.3+	0.3+	2000 04 06	704	0.6+	0.5+
1997 07 03	691	0.2−	0.3−	2000 03 04	688	0.7−	0.2+	2000 04 06	704	0.1−	0.3+
1998 09 26	704	0.6−	0.6+	2000 03 08	704	0.2+	0.7+	2000 04 06	704	0.0	0.6+
1998 09 26	704	0.6−	0.6+	2000 03 08	704	0.2+	1.0−	2000 04 06	704	0.1+	0.8+
1998 09 26	704	0.1−	0.3+	2000 03 08	704	1.1−	0.5+	2000 04 07	699	0.5+	0.1+
1998 09 26	704	0.1−	1.3−	2000 03 10	704	0.5−	0.5+	2000 04 07	699	0.3−	0.4+
1998 09 26	704	1.5−	1.8+	2000 03 10	704	0.3+	0.2−	2000 04 07	699	0.8−	0.1−
1998 09 27	704	0.4−	0.0	2000 03 10	704	0.1+	0.2+	2000 04 07	699	0.8−	0.1−
1998 09 27	704	1.0+	0.3+	2000 03 10	704	0.0	0.2−				

(14728)* 2000 DY₁₄ = 1977 EL₄ = 1988 VX₁₁ = 1993 BX₁₂ = 1998 VF₂₉

</

2000 APR. 18

M.P.C. 39913

1993 01 22	809	0.3+	0.0	1999 02 04	704	0.1−	0.1−	2000 03 02	703	0.1−	0.1−
1993 01 22	809	1.1−	1.1−	1999 02 04	704	(3.0+	0.6+)	2000 03 11	699	0.4−	0.3−
1993 01 28	809	0.1−	0.9+	1999 02 04	704	1.5−	1.0+	2000 03 11	699	0.5−	0.5−
1993 01 28	809	0.2−	0.1−	1999 12 09	703	0.0	0.0	2000 03 11	699	0.7−	0.4−
1993 01 28	809	0.3+	0.1+	1999 12 09	703	0.9+	0.0	2000 03 11	699	0.6−	0.2−
1998 08 31	704	1.5+	0.7−	1999 12 09	703	0.2+	0.3−	2000 03 12	704	0.3+	0.3+
1998 08 31	704	1.7−	0.1+	1999 12 09	703	0.3+	0.2+	2000 03 12	704	0.1+	0.4+
1998 08 31	704	1.0−	1.5−	2000 01 08	704	1.0−	0.1+	2000 03 12	704	0.2+	0.5+
1998 08 31	704	1.2+	1.2+	2000 01 08	704	0.9−	0.3+	2000 03 12	704	0.9+	1.1+
1998 08 31	704	(0.2+	2.4+)	2000 01 08	704	0.7−	0.3−	2000 03 12	704	0.2−	1.0+
1998 11 10	704	1.2−	0.0	2000 01 08	704	0.9−	0.0	2000 03 28	704	0.6+	0.0
1998 11 10	704	0.3−	0.3−	2000 02 11	704	0.2+	0.1−	2000 03 28	704	1.1+	0.1−
1998 11 10	704	0.4+	0.3−	2000 02 11	704	0.5+	0.0	2000 03 28	704	0.8+	0.0
1998 11 10	704	0.6−	0.8−	2000 02 11	704	0.1−	0.5+	2000 04 03	704	0.5+	0.6−
1998 11 11	704	0.2−	0.1−	2000 02 11	704	0.1−	0.6+	2000 04 03	704	0.2−	0.2+
1998 11 11	704	0.6+	0.8−	2000 02 11	704	0.7+	0.0	2000 04 03	704	0.0	0.6+
1998 11 11	704	0.2+	0.7−	2000 02 26	703	0.5+	0.0	2000 04 03	704	0.4−	0.9+
1998 11 18	704	1.0+	0.3+	2000 02 26	703	0.7+	0.3−	2000 04 03	704	0.9−	0.9+

(14729)* 2000 DK₁₆ = 1977 CG₂ = 1995 AW₄ = 1998 XR₃₅

Discovered 2000 Feb. 29 by K. Korlević at Višnja.

Id. G. V. Williams (*MPC* 39445)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	37.71055	(2000.0)		P		Q	
<i>n</i>	0.21866475	ω	133.04554	−0.77939328		−0.62644346	
<i>a</i>	2.7286649	Ω	8.18648	+0.55075411		−0.69317288	
<i>e</i>	0.0863935	<i>i</i>	4.31340	+0.29869052		−0.35648274	
<i>P</i>	4.51	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 11	675	0.1−	0.8+	2000 03 04	703	0.1−	0.1−	2000 04 03	699	0.0	0.3+
1977 02 12	675	0.3+	0.4+	2000 03 04	703	0.4+	0.2−	2000 04 03	699	0.1+	0.1+
1993 10 12	809	(0.0	2.6+)	2000 03 04	703	0.0	0.2−	2000 04 03	699	0.1−	0.1+
1993 10 12	809	0.2−	0.6+	2000 03 04	703	0.5+	0.2+	2000 04 05	704	0.0	0.1+
1993 10 12	809	0.0	0.8+	2000 03 05	120	0.2−	0.1+	2000 04 05	704	0.1+	0.1+
1993 10 22	809	0.9+	1.4−	2000 03 05	120	0.4−	0.5+	2000 04 05	704	0.1+	0.1−
1993 10 22	809	0.5−	0.4−	2000 03 06	120	1.8+	0.6−	2000 04 05	704	0.2+	0.1+
1993 10 22	809	(5.8−	2.2+)	2000 03 06	120	0.4+	0.7−	2000 04 05	704	0.2+	0.2−
1995 01 06	033	0.2−	0.8−	2000 03 07	120	0.0	0.5−	2000 04 06	699	0.1−	0.0
1995 01 06	033	0.7−	0.1+	2000 03 09	120	0.0	1.2−	2000 04 06	699	0.1−	0.1+
1995 01 08	033	0.9+	0.7−	2000 03 09	120	1.3+	1.0−	2000 04 06	704	0.2+	0.0
1995 02 22	033	0.3+	0.1−	2000 03 09	704	0.1−	0.1+	2000 04 06	704	0.2+	0.1+
1995 02 22	033	0.1+	0.2+	2000 03 09	704	0.2+	0.4+	2000 04 06	699	0.4−	0.1+
1998 11 10	704	1.2−	0.5+	2000 03 09	704	0.1−	0.1+	2000 04 06	704	0.2+	0.1+
1998 11 10	704	0.8+	0.6−	2000 03 09	704	0.2−	0.7+	2000 04 06	699	0.7−	0.2+
1998 11 10	704	1.3−	1.5−	2000 03 09	704	0.4−	1.0+	2000 04 06	704	0.3+	0.1−
1998 11 10	704	0.6+	1.9+	2000 03 10	704	0.9+	0.4−	2000 04 07	704	0.4+	0.4+
1998 12 14	704	(2.1−	2.5−)	2000 03 10	704	0.3+	0.3+	2000 04 07	704	0.8+	0.2−
1998 12 14	704	0.4+	0.2+	2000 03 10	704	0.1−	0.4+	2000 04 07	704	0.6+	0.2+
1998 12 14	704	0.3−	1.3−	2000 03 10	704	0.5−	0.6+	2000 04 07	704	0.2−	0.2+
1998 12 14	704	0.6−	0.1+	2000 03 17	120	0.4+	1.3−	2000 04 07	704	0.8+	0.4+
1998 12 17	704	0.0	0.6+	2000 03 17	120	1.4−	0.2−	2000 04 08	704	0.4+	0.1+
1998 12 17	704	0.2+	0.7−	2000 03 18	120	0.2−	0.1−	2000 04 08	704	1.5−	0.3+
1998 12 17	704	0.5+	0.4+	2000 03 25	691	0.7−	0.3−	2000 04 08	704	1.8−	1.9+
1998 12 17	704	0.1−	0.3+	2000 03 25	691	0.7−	0.3−	2000 04 08	704	0.7+	0.3+
1998 12 17	704	0.2+	0.2+	2000 03 25	691	0.8−	0.4−	2000 04 08	704	0.0	0.6−
2000 02 29	120	0.4+	0.1−	2000 04 02	699	0.2+	0.2+	2000 04 10	704	0.2−	0.1+
2000 02 29	120	0.3+	0.2−	2000 04 02	699	0.2−	0.2+	2000 04 10	704	0.3−	0.3−
2000 03 03	120	0.1+	0.0	2000 04 02	699	0.1−	0.1+	2000 04 10	704	0.6+	0.3+
2000 03 03	120	1.0−	0.5−	2000 04 02	699	0.0	0.0	2000 04 10	704	0.7+	0.3+
2000 03 03	120	0.7−	0.6−	2000 04 03	699	0.3+	0.0	2000 04 10	704	0.5−	0.3−

(14730)* 2000 DS₁₉ = 1981 VC = 1996 KD₆ = 1998 XU₆₅

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39445)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				Williams			
<i>M</i>	124.12276	(2000.0)		P		Q	
<i>n</i>	0.17617408	ω	340.25481	+0.99990067		−0.01081977	
<i>a</i>	3.1514327	Ω	20.37145	+0.01361300		+0.90744000	
<i>e</i>	0.2217213	<i>i</i>	1.48688	−0.00365270		+0.42004235	
<i>P</i>	5.59	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 11 02	688	1.4+	0.9−	1998 12 11	699	0.0	0.0	2000 02 27	703	0.2−	0.0
1981 11 02	688	1.4+	1.5−	1998 12 11	699	0.8−	0.2−	2000 02 27	703	0.0	0.6+
1981 11 05	688	1.8−	1.8−	1998 12 14	704	1.0+	0.8−	2000 02 29	704	0.5+	0.1−
1981 11 05	688	0.6+	0.2+	1998 12 14	704	0.3+	1.4+	2000 02 29	704	0.3−	0.4−
1996 04 17	809	0.0	1.7−	1998 12 14	704	1.3−	0.7+	2000 02 29	704	0.2+	0.3−
1996 04 17	809	(0.7+	3.1−)	1998 12 14	704	0.7−	1.3+	2000 02 29	704	0.1+	0.4−
1996 04 17	809	0.1+	1.5−	1998 12 17	704	0.0	0.3+	2000 02 29	704	0.0	0.2+
1996 05 19	809	0.4+	1.2+	1998 12 17	704	0.4−	0.5−	2000 03 03	704	0.2−	0.4−
1996 05 19	809	0.4−	1.7+	1998 12 17	704	0.8+	0.3−	2000 03 03	704	0.6−	0.3−
1996 05 19	809	(0.9−	2.0+)	1998 12 17	704	1.8+	0.6−	2000 03 03	704	0.1+	1.0+
1996 05 22	809	(0.8+	2.6+)	2000 02 03	704	0.6+	0.5+	2000 03 03	704	0.3+	0.0
1996 05 22	809	(2.3−	2.1+)	2000 02 03	704	0.5+	0.9+	2000 03 05	704	0.6−	0.8−
1996 05 22	809	(3.8−	1.4+)	2000 02 03	704	0.5+	0.2−	2000 03 05	704	0.4−	0.1−
1997 08 01	566	(0.8+	2.8+)	2000 02 03	704	0.2−	0.7+	2000 03 05	704	0.1−	0.3+
1997 08 01	566	(1.5+	2.9+)	2000 02 11	704	0.4−	0.1+	2000 03 09	704	0.9+	0.4−
1997 08 01	566	(1.5+	2.4+)	2000 02 11	704	0.4−	0.3+	2000 03 09	704	0.3−	0.6−
1998 11 16	566	0.1−	0.8+	2000 02 11	704	0.2+	0.3+	2000 03 09	704	0.3+	1.7−
1998 11 16	566	0.5−	0.5+	2000 02 11	704	0.1−	0.3−	2000 03 09	704	0.3−	0.4−
1998 11 16	566	0.2−	0.4+	2000 02 27	703	0.5−	0.4−				
1998 12 11	699	0.8−	1.1+	2000 02 27	703	0.2−	0.2−				

(14731)* 2000 DY₆₈ = 1978 EM₉ = 1991 RW₃₇

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39460)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				Williams			
<i>M</i>	253.26672	(2000.0)		P		Q	
<i>n</i>	0.17875428	ω	104.97305	+0.27160815		+0.96240456	
<i>a</i>	3.1210334	Ω	180.80036	−0.93808927		+0.26415372	
<i>e</i>	0.1153944	<i>i</i>	10.49153	−0.21498261		+0.06324770	
<i>P</i>	5.51	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 03 15	675	0.7−	0.8−	2000 02 08	704	0.3−	0.2−	2000 03 11	704	1.1−	0.3−
1978 03 16	675	0.2+	1.6−	2000 02 08	704	0.1+	0.5+	2000 03 11	699	0.3−	0.3−
1991 09 15	675	0.2−	1.6−	2000 02 08	704	1.2+	0.3−	2000 03 11	699	0.5−	0.1−
1991 09 15	675	1.0+	1.7−	2000 02 27	703	0.2+	0.2−	2000 03 11	699	0.3−	0.2−
1997 10 29	704	0.2+	0.9+	2000 02 27	703	0.7−	0.9+	2000 03 11	699	0.5−	0.1−
1997 10 29	704	0.7+	0.2−	2000 02 27	703	0.1+	0.8+	2000 04 05	704	0.2−	0.1+
1997 10 29	704	0.2−	0.9−	2000 02 27	703	0.1−	0.5+	2000 04 05	704	0.3−	0.1−
1997 10 29	704	0.6+	0.1−	2000 02 29	704	0.3−	0.1−	2000 04 05	704	0.0	0.4+
1997 10 29	704	0.4+	0.0	2000 02 29	704	1.1+	0.6−	2000 04 05	704	0.4−	0.4+
1997 10 30	704	(4.1+	2.4−)	2000 02 29	704	0.7−	0.2−	2000 04 05	704	0.0	0.4+
1997 10 30	704	(2.9+	0.6−)	2000 02 29	704	0.1−	0.7−	2000 04 05	704	0.2−	0.1+
1997 10 30	704	1.9+	1.5−	2000 03 03	704	0.0	0.0	2000 04 05	704	0.6−	0.4−
1997 10 30	704	(2.3+	1.5−)	2000 03 03	704	0.1−	0.1+	2000 04 05	704	0.5−	0.1+
1997 11 06	704	1.3−	0.1−	2000 03 03	704	0.1−	0.3−	2000 04 05	704	0.5−	0.6−
1997 11 06	704	0.9−	1.6+	2000 03 03	704	0.1+	0.2−	2000 04 06	704	0.1−	0.1+
1997 11 06	704	0.7−	0.2+	2000 03 03	704	0.4+	0.4−	2000 04 06	704	0.5+	0.2+
1997 11 06	704	0.7−	0.1+	2000 03 08	704	0.2−	0.5−	2000 04 06	704	0.8−	0.8+
2000 02 02	704	0.8+	0.1+	2000 03 08	704	0.1−	0.5+	2000 04 06	704	0.5+	0.9+
2000 02 02	704	1.0+	0.5+	2000 03 08	704	1.6+	1.5−	2000 04 06	704	0.2−	0.8+
2000 02 02	704	1.1+	0.3+	2000 03 08	704	(2.0+	2.3+)	2000 04 08	704	0.8+	1.0−
2000 02 02	704	0.7+	0.1+	2000 03 11	704	0.5−	0.1+	2000 04 08	704	1.0+	0.4−
2000 02 02	704	0.5+	1.0+	2000 03 11	704	0.5−	0.2−	2000 04 08	704	0.5−	0.3−
2000 02 08	704	0.2−	0.7+	2000 03 11	704	0.4−	0.1−	2000 04 08	704	0.3−	1.0−
2000 02 08	704	0.3+	0.3−	2000 03 11	704	0.1−	0.4−				

(14732)* 2000 DX₇₁ = 1991 RJ₁₀ = 1997 WG₅₆ = 1999 AC₂₇

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39464)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	194.09585	(2000.0)	P	Q	
<i>n</i>	0.17284320	ω	313.69663	+0.93098590	+0.36495890
<i>a</i>	3.1917916	Ω	24.90186	-0.32894619	+0.84863405
<i>e</i>	0.1999167	<i>i</i>	1.14062	-0.15830243	+0.38291676
<i>P</i>	5.70	<i>H</i>	12.7	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1991 09 10	675	0.1-	0.5+	1998 12 21	704	1.6+	1.4-	2000 03 03	704	0.3+	0.4+
1991 09 10	675	0.3-	0.3-	1998 12 21	704	1.3+	0.2+	2000 03 03	704	0.3-	0.3+
1991 09 16	675	0.4+	0.0	1998 12 21	704	0.3+	0.3+	2000 03 11	704	0.2+	0.1+
1991 09 16	675	0.1-	0.1-	1998 12 21	704	(0.9+	3.3-)	2000 03 11	704	0.1-	0.3+
1997 10 29	704	0.3+	0.8+	1998 12 21	704	(5.5-	1.1+)	2000 03 11	704	0.2-	0.2+
1997 10 29	704	0.1+	0.5+	1999 01 10	691	0.5-	0.3-	2000 03 11	704	0.1-	0.3-
1997 10 29	704	0.9+	0.2-	1999 01 10	691	0.4-	0.3-	2000 03 11	704	0.4-	0.2+
1997 10 29	704	0.6+	1.2-	1999 01 10	691	0.1-	0.5-	2000 03 12	691	0.2+	0.3+
1997 10 29	704	0.6+	0.2+	1999 01 16	691	1.2-	0.1-	2000 03 12	691	0.3+	0.3+
1997 10 30	704	0.5+	0.0	1999 01 16	691	0.7-	0.5-	2000 03 12	691	0.1+	0.3+
1997 10 30	704	0.3-	0.2-	1999 01 16	691	0.9-	0.2-	2000 04 02	699	0.0	0.4-
1997 10 30	704	0.4+	0.2+	2000 02 16	703	0.3-	0.6+	2000 04 02	699	0.1-	0.2-
1997 10 30	704	0.4+	0.1+	2000 02 16	703	0.2-	0.3+	2000 04 02	699	0.6+	1.2+
1997 11 06	704	0.5-	0.6+	2000 02 16	703	0.1-	0.2-	2000 04 02	699	0.2-	0.2+
1997 11 06	704	0.6-	0.2+	2000 02 16	703	0.8+	0.6-	2000 04 05	704	1.1+	1.8-
1997 11 06	704	0.3-	0.2-	2000 02 29	704	0.0	0.5-	2000 04 05	704	0.1-	0.5-
1997 11 06	704	0.5-	0.3+	2000 02 29	704	0.4+	1.0+	2000 04 05	704	0.6+	0.3+
1997 11 06	704	0.6-	0.0	2000 02 29	704	0.3+	0.3+	2000 04 05	704	0.4+	0.2+
1997 11 29	704	0.4-	0.7-	2000 02 29	704	0.7-	0.5+	2000 04 09	608	0.6-	0.6-
1997 11 29	704	0.2-	1.2+	2000 03 03	704	0.2-	0.5+	2000 04 09	608	1.2-	0.0
1997 11 29	704	0.3-	0.2+	2000 03 03	704	0.6+	0.3+	2000 04 09	608	0.0	0.5-
1997 11 29	704	0.8-	0.0	2000 03 03	704	0.1+	0.1+				

(14733)* 2000 DV₇₄ = 1989 SA₆ = 1991 EH₈ = 1998 SH₁₄₂

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39466)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	59.86506	(2000.0)	P	Q	
<i>n</i>	0.21961042	ω	272.51228	-0.02677177	-0.99963074
<i>a</i>	2.7208259	Ω	178.98616	+0.98941198	-0.02716165
<i>e</i>	0.1679395	<i>i</i>	15.24490	+0.14264360	+0.00078641
<i>P</i>	4.49	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 09 26	809	0.7-	0.9-	1999 12 16	704	0.6-	0.2-	2000 03 25	691	0.6-	0.7-
1989 09 26	809	1.4-	0.4-	2000 02 08	704	0.6+	0.0	2000 03 25	691	1.0-	0.6-
1989 09 26	809	1.8-	1.7-	2000 02 08	704	0.7+	0.3+	2000 03 25	691	1.0-	0.6-
1989 10 03	809	1.9+	1.4-	2000 02 08	704	0.3+	0.6+	2000 04 02	699	0.1-	0.3-
1989 10 03	809	1.5+	1.7-	2000 02 08	704	0.2-	0.4-	2000 04 02	699	0.0	0.0
1989 10 03	809	1.9+	1.4-	2000 02 08	704	0.1-	0.2+	2000 04 02	699	0.1+	0.5-
1991 03 09	675	0.2-	0.9-	2000 02 27	703	0.4+	0.0	2000 04 02	699	0.1-	0.3+
1991 03 09	675	0.4-	0.8+	2000 02 27	703	0.1-	0.0	2000 04 05	704	0.2+	0.1-
1998 09 24	699	0.3+	0.9+	2000 02 27	703	0.1+	0.3+	2000 04 05	704	0.0	0.3-
1998 09 24	699	0.2-	1.4+	2000 02 27	703	0.1-	0.3+	2000 04 05	704	0.1-	0.2+
1998 09 24	699	0.5-	1.0+	2000 02 29	704	0.3+	0.2+	2000 04 05	704	0.1+	0.2-
1998 09 26	704	0.5-	0.0	2000 02 29	704	0.3+	0.3+	2000 04 05	704	0.2+	0.1+
1998 09 26	704	0.2+	0.2+	2000 02 29	704	0.1-	0.4+	2000 04 05	704	0.0	0.1-
1998 09 26	704	0.6+	1.0-	2000 02 29	704	0.1+	0.5+	2000 04 05	704	0.5-	0.3-
1998 09 26	704	0.0	0.3-	2000 02 29	704	0.6+	0.3+	2000 04 05	704	0.2+	0.1-
1998 09 26	704	0.5+	0.3-	2000 03 03	704	0.7+	0.1-	2000 04 05	704	0.2+	0.0
1998 09 27	704	0.5+	0.1+	2000 03 03	704	0.4+	0.0	2000 04 05	704	0.4+	0.2-

1998 09 27	704	0.2-	0.3+	2000 03 03	704	0.6+	0.4+	2000 04 06	704	0.7-	0.0
1998 09 27	704	0.2+	0.1+	2000 03 05	608	0.7-	0.8-	2000 04 06	704	0.3+	0.1+
1998 09 27	704	0.4-	0.6+	2000 03 05	608	0.6-	0.8-	2000 04 06	704	0.0	0.4+
1998 09 27	704	0.3-	0.7-	2000 03 05	608	0.8-	0.8-	2000 04 06	704	0.3+	0.0
1998 10 17	699	0.5-	1.0+	2000 03 08	704	0.2-	0.4+	2000 04 06	704	0.1+	0.2+
1998 10 17	699	0.0	0.1-	2000 03 08	704	0.6-	0.5+	2000 04 06	608	1.4+	1.7-
1998 10 17	699	0.5-	0.3+	2000 03 08	704	0.3+	0.9+	2000 04 06	608	1.4+	0.8-
1998 11 13	704	1.5+	0.6+	2000 03 08	704	0.4-	0.6+	2000 04 06	608	(1.0+	2.7-)
1998 11 13	704	0.3-	0.0	2000 03 08	704	0.4-	0.3-	2000 04 10	704	0.5-	0.8-
1998 11 13	704	(0.9+	2.6-)	2000 03 11	704	0.0	0.2+	2000 04 10	704	0.5+	0.4-
1998 11 13	704	1.4-	0.9+	2000 03 11	704	0.0	0.3+	2000 04 10	704	0.1-	0.1-
1999 12 16	704	0.2-	0.1-	2000 03 11	704	0.1+	0.3+	2000 04 10	704	0.9-	0.4-
1999 12 16	704	0.3-	0.4-	2000 03 11	704	0.3+	0.4+				
1999 12 16	704	0.1-	0.0	2000 03 11	704	0.2+	0.5+				

(14734)* 2000 DZ₇₈ = 2282 T-2 = 1987 SR₁₈ = 1997 JQ₁₅ = 1998 XG₈₂

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39470)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	210.74135	(2000.0)	P	Q	
<i>n</i>	0.28043539	ω	139.24511	+0.86890949	+0.49461470
<i>a</i>	2.3116079	Ω	191.15615	-0.47559317	+0.82378020
<i>e</i>	0.2026353	<i>i</i>	5.56931	-0.13714018	+0.27702434
<i>P</i>	3.51	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1973 09 20	675	(1.0+	2.9+)	1998 12 15	704	0.7+	1.3+	2000 03 11	704	0.6+	0.2-
1973 09 24	675	(3.0-	2.8+)	1998 12 15	704	(0.9+	2.7+)	2000 03 11	704	0.2+	0.1-
1973 09 24	675	(3.3-	3.1+)	1998 12 15	704	0.6-	1.2+	2000 03 11	704	0.2+	0.3+
1973 09 25	675	0.3-	0.6-	1998 12 15	704	(0.9+	2.6+)	2000 03 11	704	0.1+	0.6-
1973 09 25	675	0.2+	0.4-	1998 12 22	704	(2.0-	0.5-)	2000 03 11	704	0.5+	0.4+
1973 09 29	675	0.4-	1.3+	1998 12 22	704	0.2+	0.5+	2000 03 30	703	(0.7-	2.4-)
1973 09 29	675	1.0-	2.1+	1998 12 22	704	0.1-	0.3-	2000 03 30	703	0.6+	0.9-
1973 09 30	675	1.0+	1.0-	1998 12 22	704	0.3-	1.0-	2000 03 30	703	0.1-	0.7-
1973 09 30	675	0.3+	1.0-	1998 12 22	704	0.1-	1.0+	2000 03 30	703	(3.4-	1.9-)
1973 10 04	675	(2.8+	1.8-)	2000 02 08	704	1.0+	1.0+	2000 04 02	691	1.2-	0.8-
1973 10 04	675	(3.4+	2.8-)	2000 02 08	704	0.5+	0.0	2000 04 02	691	1.0-	0.9-
1973 10 05	675	0.3+	2.2-	2000 02 08	704	0.5-	0.6-	2000 04 02	691	1.4-	0.7-
1973 10 05	675	1.0+	2.3-	2000 02 27	703	0.0	1.2+	2000 04 05	704	(1.6+	3.4-)
1987 09 16	095	(1.5-	4.2+)	2000 02 27	703	0.6-	0.2+	2000 04 05	704	0.6+	0.5-
1997 05 03	809	0.0	0.4+	2000 02 27	703	0.8-	0.8+	2000 04 05	704	0.7+	0.5-
1997 05 03	809	0.1+	1.0-	2000 02 27	703	1.2-	0.0	2000 04 06	704	0.1+	0.7-
1997 05 03	809	0.1-	0.6+	2000 02 29	704	1.9-	1.3+	2000 04 06	704	1.0-	0.8-
1997 05 04	809	0.2+	1.5+	2000 02 29	704	0.9-	0.7+	2000 04 06	704	0.3+	0.9-
1997 05 04	809	0.7+	1.6+	2000 02 29	704	0.4+	0.4-	2000 04 06	704	0.5+	1.7-
1997 05 04	809	0.3+	1.0+	2000 03 03	704	0.6+	0.2-	2000 04 06	704	0.3+	0.8-
1997 06 10	599	(1.5-	2.3-)	2000 03 03	704	1.1+	0.9-				
1997 06 10	599	0.8-	1.5-	2000 03 03	704	0.1+	0.1+				

(14735)* 2000 DV₈₆ = 1980 BD₁ = 1991 RK₂₄ = 1998 VX₂₂

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39471)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	247.49292		(2000.0)	P	Q
n	0.29750750	ω	248.74492	+0.21318253	+0.97568040
a	2.2223072	Ω	33.69243	-0.85885560	+0.21202923
e	0.1585551	i	5.27495	-0.46574699	+0.05559997
P	3.31	H	13.3	G 0.15	U 1

2000 APR. 18

M.P.C. 39915

1991 09 16	675	0.1−	0.4−	1999 11 16	704	0.8−	0.4+	2000 03 04	704	0.1+	0.2+
1991 09 16	675	0.3−	0.1−	1999 12 15	704	0.4−	0.2+	2000 03 04	704	0.0	0.1−
1997 04 11	704	0.5+	0.5−	1999 12 15	704	0.8+	0.6−	2000 03 04	704	0.0	0.0
1997 04 11	704	0.4+	0.2−	1999 12 15	704	0.6−	0.4+	2000 03 04	704	0.0	0.3−
1998 08 28	704	0.9−	0.2+	1999 12 15	704	0.7−	1.4−	2000 03 04	704	0.2−	0.1−
1998 08 28	704	1.3−	0.1−	2000 01 10	699	0.2+	0.2−	2000 03 05	704	0.2+	0.0
1998 08 28	704	1.7−	0.2−	2000 01 10	699	0.2−	0.2+	2000 03 05	704	0.0	0.0
1998 08 28	704	(2.4−	1.3+)	2000 01 10	699	0.6−	0.0	2000 03 05	704	0.3+	0.3+
1998 10 18	699	0.2−	0.2−	2000 02 03	704	0.1+	0.4−	2000 03 05	704	0.0	0.0
1998 10 18	699	0.7+	0.4+	2000 02 03	704	0.6−	0.4+	2000 03 05	704	0.0	0.1+
1998 10 18	699	0.9+	0.3−	2000 02 03	704	0.3+	0.2+	2000 03 11	699	0.1−	0.1−
1998 11 10	704	0.1−	0.4+	2000 02 03	704	0.3−	0.8+	2000 03 11	699	0.2−	0.2−
1998 11 10	704	0.2+	0.1−	2000 02 03	704	0.1+	0.4+	2000 03 11	699	0.1−	0.2−
1998 11 10	704	0.4−	0.1+	2000 02 06	703	0.2−	0.0	2000 03 11	699	0.2−	0.0
1998 11 10	704	0.7+	0.7+	2000 02 06	703	0.4+	0.5+	2000 03 12	704	0.3+	0.1+
1998 11 10	704	0.9+	0.1+	2000 02 06	703	0.0	0.4+	2000 03 12	704	0.2+	0.2+
1998 11 11	704	0.2+	0.3+	2000 02 06	703	0.1+	0.3+	2000 03 12	704	0.5−	0.0
1998 11 11	704	0.8+	0.0	2000 02 11	704	0.3+	0.1+	2000 03 12	704	0.2−	0.3+
1998 11 11	704	1.4+	0.4+	2000 02 11	704	0.2+	0.0	2000 03 12	704	0.0	0.1+
1998 11 11	704	0.8+	0.5+	2000 02 11	704	0.1−	0.1+	2000 04 04	704	0.5+	0.2+
1999 01 06	699	1.3−	0.8−	2000 02 11	704	0.2−	0.1+	2000 04 04	704	0.2+	0.0
1999 01 06	699	1.3−	0.6−	2000 02 11	704	0.0	0.1+	2000 04 04	704	0.4+	0.2−
1999 01 06	699	0.7−	0.2−	2000 02 29	704	0.0	0.1−	2000 04 04	704	0.4+	0.0
1999 11 16	704	1.1+	0.6−	2000 02 29	704	0.1−	0.2−	2000 04 04	704	0.3−	0.1+

(14736)* 2000 DW₉₇ = 1976 SZ₆ = 1987 SQ₂₅ = 1997 PG = 1998 XO₂₉

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39473, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	125.12420		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.18483836	ω	4.16351	+0.96813460	−0.24874276		
<i>a</i>	3.0521648	Ω	10.37852	+0.22486170	+0.81241205		
<i>e</i>	0.1451802	<i>i</i>	9.27156	+0.11023889	+0.52736486		
<i>P</i>	5.33	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 09 25	095	0.1−	0.0	1998 11 16	704	0.4+	0.6−	2000 02 06	703	0.0	0.6+
1987 09 24	095	(1.2−	3.0−)	1998 11 16	704	0.0	0.2+	2000 02 11	704	0.2+	0.0
1992 09 06	033	0.3−	0.7+	1998 11 16	704	1.0−	0.1+	2000 02 11	704	0.1−	0.5+
1992 09 07	033	0.4−	0.5+	1998 11 16	704	0.5+	0.2+	2000 02 11	704	0.7+	0.2+
1997 08 01	566	0.0	1.2+	1998 11 16	704	0.1+	1.2+	2000 02 11	704	0.4+	0.5+
1997 08 01	566	0.0	1.2+	1998 12 14	704	0.3−	0.2+	2000 02 11	704	0.5+	0.2−
1997 08 01	566	0.4−	0.5+	1998 12 14	704	0.9−	0.1+	2000 02 29	704	0.2+	0.9+
1997 08 02	566	0.9−	1.2+	1998 12 14	704	0.1+	0.4−	2000 02 29	704	0.2+	0.6+
1997 08 02	566	0.7−	1.5+	1998 12 14	704	0.3−	0.3−	2000 02 29	704	0.1+	0.3+
1997 08 02	566	0.6−	0.7+	1998 12 14	704	0.7−	1.7−	2000 02 29	704	0.2+	0.1+
1998 08 31	704	1.2−	1.8−	1998 12 17	704	0.7−	0.8+	2000 02 29	704	0.1−	0.6+
1998 08 31	704	0.3−	1.7−	1998 12 17	704	0.3−	0.3−	2000 03 05	704	0.4+	0.2−
1998 08 31	704	1.7−	0.8−	1998 12 17	704	1.1+	0.3+	2000 03 05	704	0.1+	0.3−
1998 08 31	704	1.3−	0.0	1998 12 17	704	1.1+	0.3+	2000 03 05	704	0.4−	0.1−
1998 08 31	704	0.4−	1.1+	2000 01 10	699	0.1+	0.4+	2000 03 05	704	0.2−	0.0
1998 11 14	704	0.4−	1.8+	2000 01 10	699	0.2−	0.2+	2000 03 05	704	0.3−	0.1+
1998 11 14	704	0.9+	0.1−	2000 01 10	699	0.2−	0.1−	2000 03 11	699	0.2−	0.2−
1998 11 14	704	(1.1−	2.5−)	2000 02 03	704	0.7+	0.5+	2000 03 11	699	0.1+	0.2−
1998 11 14	704	1.5+	0.2−	2000 02 03	704	0.2+	0.1+	2000 03 11	699	0.1−	0.2+
1998 11 14	704	(3.6−	0.4−)	2000 02 03	704	0.4−	0.3+	2000 03 11	699	0.5−	0.2+
1998 11 16	704	0.1+	0.9+	2000 02 03	704	0.1+	0.2−	2000 03 12	704	0.2+	0.7+
1998 11 16	704	0.3−	1.2+	2000 02 03	704	0.2+	0.2−	2000 03 12	704	0.6+	0.3+
1998 11 16	704	1.0+	0.9+	2000 02 06	703	0.4−	0.0	2000 03 12	704	0.7+	0.5+
1998 11 16	704	0.4+	0.5−	2000 02 06	703	0.1−	0.3+	2000 03 12	704	0.1+	0.6+
1998 11 16	704	1.3+	0.0	2000 02 06	703	0.2+	0.1−	2000 03 12	704	0.3+	0.6+

(14737)* 2000 DU₉₉ = 1969 TY₇ = 1996 EM = 1998 ST₁₀₈

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39474)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	19.14432		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.23865622	ω	131.14353	−0.66045031	−0.75086931		
<i>a</i>	2.5740731	Ω	0.19646	+0.59677228	−0.52557395		
<i>e</i>	0.1140152	<i>i</i>	13.88534	+0.45570631	−0.39995914		
<i>P</i>	4.13	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1969 10 08	033	0.5+	0.1+	1998 11 20	699	0.0	0.0	2000 03 09	704	0.2+	0.3−
1969 10 08	033	0.5−	0.2+	1999 12 17	699	0.5−	0.2+	2000 03 09	704	0.1+	0.0
1996 03 10	399	(4.4−	0.1+)	1999 12 17	699	0.4−	1.0+	2000 03 09	704	0.2+	0.2−
1996 03 10	399	(3.1−	1.7+)	1999 12 17	699	0.2+	0.4+	2000 03 09	704	0.4+	0.1−
1996 03 12	399	(3.5−	0.0)	2000 02 03	704	0.2+	0.3−	2000 03 11	699	0.2+	0.1+
1996 03 12	399	(4.3−	0.6−)	2000 02 03	704	0.2−	0.2+	2000 03 11	699	0.2−	0.3−
1996 03 17	566	0.4−	0.1+	2000 02 03	704	0.3+	0.3−	2000 03 11	699	0.6−	0.3+
1996 03 17	566	0.6−	0.2+	2000 02 03	704	0.1+	0.1+	2000 03 11	699	0.2−	0.0
1996 03 17	566	0.8−	0.1+	2000 02 03	704	0.2+	0.2+	2000 03 12	704	0.1−	0.1+
1996 04 22	566	0.1−	1.0−	2000 02 06	703	0.5−	0.3−	2000 03 12	704	0.3−	0.2+
1996 04 22	566	0.5−	1.1−	2000 02 06	703	0.6−	0.2−	2000 03 12	704	0.3−	0.5+
1996 04 22	566	0.6−	1.1−	2000 02 06	703	0.5−	0.2−	2000 03 12	704	0.4−	0.5+
1998 09 17	699	1.1+	0.8+	2000 02 06	703	0.6−	0.2−	2000 03 12	704	0.6−	0.5+
1998 09 17	699	(2.3−	1.9+)	2000 02 29	704	0.2+	0.1+	2000 04 03	699	0.0	0.2+
1998 09 17	699	0.3−	0.5+	2000 02 29	704	0.4+	0.3−	2000 04 03	699	0.1+	0.1−
1998 09 26	704	0.5−	0.4+	2000 02 29	704	0.4+	0.2−	2000 04 03	699	0.4+	0.0
1998 09 26	704	0.5−	1.4−	2000 02 29	704	0.4−	0.2+	2000 04 03	699	0.1+	0.1−
1998 09 26	704	0.3+	1.2−	2000 03 05	704	0.4+	0.0	2000 04 04	704	0.2+	0.0
1998 09 26	704	0.3−	0.6−	2000 03 05	704	0.7+	0.2+	2000 04 04	704	0.0	0.1+
1998 09 26	704	0.4+	0.1+	2000 03 05	704	0.0	0.3+	2000 04 04	704	0.7+	0.1+
1998 09 27	704	0.1−	0.4+	2000 03 05	704	0.3+	0.2+	2000 04 04	704	0.1−	0.5+
1998 09 27	704	0.2+	0.3+	2000 03 05	704	0.0	0.2+	2000 04 04	704	0.9+	0.3−
1998 09 27	704	0.7+	0.3−	2000 03 08	704	0.1−	0.2+	2000 04 10	704	0.4+	0.2+
1998 09 27	704	0.6−	0.6−	2000 03 08	704	0.2−	0.6−	2000 04 10	704	1.0+	0.3−
1998 09 27	704	0.2+	0.5−	2000 03 08	704	0.0	0.3−	2000 04 10	704	0.2+	0.3+
1998 11 20	699	0.1+	0.2−	2000 03 08	704	0.0	0.7−				
1998 11 20	699	0.5+	0.3+	2000 03 09	704	0.3+	0.1−				

(14738)* 2000 DW₁₀₆ = 1983 AE₃ = 1987 WU₅ = 1998 XZ₆₇

Discovered 2000 Feb. 29 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39480)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	101.39188		<i>P</i>	(2000.0)		<i>Q</i>	
<i>n</i>	0.18251762	ω	23.42330	+0.66259147	−0.74432327		
<i>a</i>	3.0779828	Ω	25.32801	+0.65266207	+0.51916627		
<i>e</i>	0.1559276	<i>i</i>	11.24174	+0.36742994	+0.42005864		
<i>P</i>	5.40	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1983 01 06	095	0.3−	1.0−	1999 11 16	703	0.4−	0.2−	2000 03 05	704	0.1−	0.3+
1983 01 09	095	1.0−	2.4+	1999 11 16	703	0.9+	0.0	2000 03 05	704	0.1−	0.3+
1983 01 14	095	1.0+	0.1−	1999 11 16	703	0.2−	0.6+	2000 03 12	704	0.0	0.3−

M.P.C. 39916

1998 12 14	704	1.5−	1.5−	2000 02 29	704	0.1+	0.2−	2000 04 08	704	0.1−	0.0
1998 12 17	704	0.7−	1.5+	2000 02 29	704	0.3+	0.3+	2000 04 08	704	0.0	0.5−
1998 12 17	704	1.2−	0.4+	2000 03 05	704	0.1+	0.2−	2000 04 08	704	0.1+	0.3−
1998 12 17	704	0.3−	0.4−	2000 03 05	704	0.1+	0.1−	2000 04 08	704	0.0	0.7−
1998 12 17	704	0.0	0.4+	2000 03 05	704	0.2−	0.3+				

(14739)* 2000 EF₂₁ = 1987 SB₂₀ = 1991 LB₃ = 1998 YL₂₈

Discovered 2000 Mar. 3 by the Catalina Sky Survey.

Id. G. V. Williams (*MPC* 39488)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	135.02999		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.19084055	<i>ω</i>	135.76521	+0.94271399		−0.29923826	
<i>a</i>	2.9878281	<i>Ω</i>	242.18011	+0.24059756		+0.91607400	
<i>e</i>	0.1203885	<i>i</i>	9.59833	+0.23109122		+0.26695486	
<i>P</i>	5.16	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1987 09 17	095	(1.2−	3.2+)	1998 12 22	704	0.2+	0.4+	2000 03 09	704	0.1−	0.2+
1987 09 26	095	1.6−	1.9+	1998 12 22	704	0.1−	0.4+	2000 03 09	704	0.5−	0.1+
1991 06 06	809	0.6+	1.6+	1998 12 22	704	0.2−	0.4+	2000 03 09	704	0.1+	0.2+
1991 06 06	809	0.3+	1.5+	2000 01 11	699	0.3+	0.4−	2000 03 12	704	0.1+	0.6+
1991 06 06	809	0.3−	1.1+	2000 01 11	699	1.0+	0.4−	2000 03 12	704	0.2+	0.5+
1991 06 08	809	1.3+	1.0+	2000 01 11	699	1.1+	0.7−	2000 03 12	704	0.1−	0.1+
1991 06 08	809	0.8+	1.1+	2000 02 07	703	0.1−	0.3−	2000 03 12	704	0.4+	0.1+
1991 06 08	809	0.8+	1.3+	2000 02 07	703	0.1+	0.2+	2000 03 12	704	0.3+	0.5+
1992 08 25	675	0.4+	0.6−	2000 02 07	703	0.2−	0.0	2000 03 13	704	0.1+	0.1−
1992 08 25	675	0.2−	0.5−	2000 02 07	703	0.1+	0.0	2000 03 13	704	0.2−	0.2−
1996 06 13	566	0.6−	0.6−	2000 02 08	704	0.3+	0.2−	2000 03 13	704	0.2−	0.1+
1996 06 13	566	1.0−	0.3+	2000 02 08	704	0.5+	0.5−	2000 03 13	704	0.0	0.2+
1996 06 13	566	0.6−	0.2−	2000 02 08	704	1.1+	0.1−	2000 03 14	703	0.3+	0.5+
1996 06 13	566	0.6−	0.6+	2000 02 08	704	1.0+	0.8−	2000 03 14	703	0.2+	0.0
1996 06 13	566	1.0−	0.5−	2000 02 08	704	0.2−	0.6−	2000 03 14	703	0.4−	0.3+
1996 06 13	566	0.6−	1.0+	2000 03 03	703	0.1+	0.4+	2000 03 14	703	0.1−	0.6+
1997 09 02	566	0.1−	1.1+	2000 03 03	703	0.3−	0.5−	2000 04 04	699	0.3−	0.4+
1997 09 02	566	0.0	0.9+	2000 03 03	703	0.3+	0.0	2000 04 04	699	0.3−	0.3+
1997 09 02	566	0.1−	1.0+	2000 03 03	703	0.2−	0.3+	2000 04 04	699	0.2−	0.4+
1998 12 16	704	0.7−	0.8+	2000 03 04	703	0.1−	0.2+	2000 04 04	704	(0.7−	2.1−)
1998 12 16	704	(0.0	3.4+)	2000 03 04	703	0.4+	0.6+	2000 04 04	699	0.4−	0.1−
1998 12 16	704	0.3+	1.9+	2000 03 04	703	0.7+	0.4+	2000 04 04	704	0.1−	0.6−
1998 12 16	704	0.5+	1.4+	2000 03 04	703	0.1−	0.2−	2000 04 04	704	0.5−	0.7+
1998 12 16	704	1.1+	1.8+	2000 03 09	704	0.3+	0.4+	2000 04 04	704	0.9−	0.9−
1998 12 22	704	0.5−	0.3+	2000 03 09	704	0.0	0.6+				

(14740)* 2000 ED₃₂ = 1981 UD₁₁ = 1992 UA₉

Discovered 2000 Mar. 5 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39490)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	206.04952		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18519516	<i>ω</i>	301.52100	+0.70565928		+0.70820022	
<i>a</i>	3.0482433	<i>Ω</i>	13.43584	−0.61318620		+0.62615296	
<i>e</i>	0.1539159	<i>i</i>	5.50813	−0.35503192		+0.32616701	
<i>P</i>	5.32	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 10 22	095	0.5+	0.2−	2000 02 01	703	0.2+	0.5+	2000 03 09	704	0.8+	0.4−
1981 10 24	095	0.4−	0.5+	2000 02 01	703	(1.1+	2.2+)	2000 03 09	704	1.7+	1.6−
1992 10 31	033	0.0	0.5+	2000 02 01	703	1.1+	0.6+	2000 03 11	699	1.2−	0.5+
1992 10 31	033	0.6−	0.1−	2000 02 11	704	0.1−	0.3−	2000 03 11	699	0.5−	0.5−
1992 11 01	033	0.6−	0.1+	2000 02 11	704	0.4−	0.6+	2000 03 11	699	0.2−	0.4−
1997 10 30	704	0.2+	0.3+	2000 02 11	704	0.5−	0.1+	2000 03 11	699	0.0	1.0+
1997 10 30	704	0.3+	0.3+	2000 02 11	704	0.5−	0.5−	2000 03 12	704	0.1−	0.4+
1997 10 30	704	0.6−	0.1+	2000 02 11	704	0.1−	0.2−	2000 03 12	704	0.1−	0.7−
1997 10 30	704	0.6+	0.3−	2000 02 25	703	0.2−	1.1+	2000 03 12	704	0.1+	0.3+
1997 10 30	704	1.1−	1.2+	2000 02 25	703	1.1−	0.6+	2000 03 12	704	0.3+	0.0

2000 APR. 18

1998 12 14	704	1.0+	0.7−	2000 02 25	703	0.0	1.4+	2000 03 12	704	0.0	0.1−
1998 12 14	704	(1.3+	2.2−)	2000 02 25	703	1.7−	0.2+	2000 03 14	739	0.3+	0.0
1998 12 14	704	(1.7−	3.1−)	2000 03 05	704	0.2+	0.5+	2000 03 14	739	0.2−	0.4+
1998 12 14	704	0.1+	0.9−	2000 03 05	704	0.2+	0.2−	2000 03 14	739	0.9−	0.3−
1999 01 16	704	0.3+	1.2+	2000 03 05	704	0.7+	0.3−	2000 04 02	684	0.5−	0.1+
1999 01 16	704	(0.0	2.6+)	2000 03 05	704	0.7+	0.3+	2000 04 02	684	0.3−	0.1+
1999 01 16	704	0.1+	0.4−	2000 03 05	704	0.9+	0.4+	2000 04 03	684	0.1−	0.2−
1999 01 16	704	0.4+	0.6−	2000 03 09	704	1.3+	0.1−	2000 04 03	684	0.3−	0.3−
1999 01 16	704	1.1−	1.6−	2000 03 09	704	1.1+	0.1−				
2000 02 01	703	0.4−	0.2+	2000 03 09	704	0.7+	0.1−				

(14741)* 2000 EQ₄₉ = 1962 CA = 1988 SJ₄ = 1995 UF₄₇

Discovered 2000 Mar. 9 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39492)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	76.70980		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.28724572	<i>ω</i>	159.97482	+0.31741961		−0.93991211	
<i>a</i>	2.2749246	<i>Ω</i>	271.35391	+0.85200505		+0.34088763	
<i>e</i>	0.1985148	<i>i</i>	7.22540	+0.41633183		+0.01899578	
<i>P</i>	3.43	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1962 02 04	760	0.2+	1.3−	1999 11 05	703	1.7+	0.4+	2000 03 10	704	0.1+	0.3+
1962 02 04	760	0.3−	0.4+	1999 11 05	703	0.3+	0.0	2000 03 10	704	0.1−	0.2+
1988 09 16	095	1.0−	0.7+	1999 11 05	703	0.6−	0.5+	2000 03 10	704	0.1+	0.1+
1988 09 16	095	0.0	0.6−	2000 01 10	704	0.3+	0.8+	2000 03 10	704	0.2−	0.2−
1995 10 24	327	0.4−	0.2+	2000 01 10	704	0.4+	0.4+	2000 03 10	704	0.6−	0.1+
1995 10 24	327	0.3−	0.5+	2000 01 10	704	0.3+	0.2+	2000 03 13	704	0.0	0.3−
1995 10 24	327	0.0	0.8+	2000 01 10	704	0.3+	1.1+	2000 03 13	704	0.2−	0.2−
1995 10 25	327	0.2+	0.4+	2000 01 10	704	0.3−	1.5+	2000 03 13	704	0.2+	0.5+
1995 10 25	327	0.2−	0.1−	2000 02 10	704	1.0+	0.1+	2000 03 13	704	0.1−	0.4−
1995 10 25	327	0.3+	0.6+	2000 02 10	704	0.0	0.6+	2000 03 13	704	0.4+	0.0
1998 07 26	699	0.1−	0.8+	2000 02 10	704	0.7+	0.6+	2000 03 26	428	0.5+	0.2−
1998 07 26	699	0.1−	1.4+	2000 02 10	704	0.0	0.3+	2000 03 26	428	0.2−	0.4+
1998 07 26	699	0.1+	1.1+	2000 03 06	608	0.2−	0.1+	2000 03 31	704	0.4+	0.4−
1998 09 22	699	0.2+	1.5+	2000 03 06	608	0.2−	0.3+	2000 03 31	704	0.5−	0.2+
1998 09 22	699	0.3−	1.0+	2000 03 06	608	0.4−	0.1+	2000 03 31	704	0.0	0.1−
1998 09 22	699	0.4−	1.1+	2000 03 09	704	0.1−	0.4+	2000 04 07	704	0.3+	0.6−
1998 11 17	699	0.8−	0.9+	2000 03 09	704	0.5−	0.7+	2000 04 07	704	0.1+	0.1+
1998 11 17	699	1.2−	1.1+	2000 03 09	704	0.0	0.9+	2000 04 07	704	0.5+	0.2+
1998 11 17	699	1.2−	0.4+	2000 03 09	704	0.2−	0.9+	2000 04 07	704	1.0+	0.9+
1999 11 05	703	0.3+	0.2−	2000 03 09	704	0.9+	1.1+	2000 04 07	704	0.1+	0.7+

(14742)* 2000 EQ₅₆ = 1981 SD₈ = 1981 UE₂₅ = 1991 PP₁₅

Discovered 2000 Mar. 8 by the Lincoln Laboratory Near-Earth Asteroid

Research Team at Socorro.

Id. G. V. Williams (*MPC* 39492), S. Nakano (d, *MPC* 20606)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	216.20843		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18500826	<i>ω</i>	212.48306	+0.84109498		+0.53973869	
<i>a</i>	3.0502959	<i>Ω</i>	114.81180	−0.48759362		+0.78480651	
<i>e</i>	0.1397325	<i>i</i>	2.22457	−0.23411898		+0.30456674	
<i>P</i>	5.33	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 09 24	033	1.4−	2.0−	1997 10 31	704	1.2−	0.5+	2000 03 1

1991 08 10	675	0.4+	0.0	2000 02 27	703	0.9-	0.2-	2000 04 05	704	0.3-	0.1-
1991 08 10	675	0.8+	0.3+	2000 02 27	703	0.2+	0.3+	2000 04 05	704	0.2+	0.2-
1997 10 29	704	0.5+	1.2-	2000 03 08	704	0.6-	0.1+	2000 04 05	704	0.3+	0.1+
1997 10 29	704	0.1-	0.1-	2000 03 08	704	1.4+	0.2+	2000 04 05	704	0.2-	0.2-
1997 10 29	704	0.3-	0.3+	2000 03 08	704	0.2+	0.6+	2000 04 05	704	0.1+	0.2+
1997 10 29	704	0.8-	0.4+	2000 03 08	704	0.6-	1.1+	2000 04 06	704	0.5+	0.3-
1997 10 29	704	0.4-	0.4+	2000 03 08	704	0.4+	0.2+	2000 04 06	704	0.1+	0.4-
1997 10 30	704	(2.2+	0.3-)	2000 03 11	704	0.5-	1.1-	2000 04 06	704	0.3+	0.3+
1997 10 30	704	1.4+	0.6-	2000 03 11	704	0.5-	0.1-	2000 04 06	704	0.2+	0.2-
1997 10 30	704	1.7+	0.3-	2000 03 11	704	0.4-	0.1+	2000 04 10	704	0.6+	0.4-
1997 10 30	704	0.7+	0.1-	2000 03 11	704	0.1-	0.3-	2000 04 10	704	0.2-	1.2-
1997 10 31	704	0.0	0.1-	2000 03 11	704	0.8+	0.4+	2000 04 10	704	0.5-	1.0-
1997 10 31	704	0.2-	0.4+	2000 03 14	703	0.3-	1.1-				
1997 10 31	704	0.2+	0.9+	2000 03 14	703	1.2-	0.8-				

(14743)* 2016 P-L = 1996 GP₁₈

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 27320)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	192.31775		(2000.0)		P		Q
n	0.21160003	ω	136.09611		+0.89869278		+0.43712256
a	2.7890667	Ω	198.07804		-0.42741370		+0.85465202
e	0.1459983	i	6.60799		-0.09833013		+0.28016744
P	4.66	H	12.9	G	0.15	U	1

Residuals in seconds of arc

1960 09 24	675	(0.5-	6.5+)	1998 12 15	704	0.5-	0.4+	2000 02 08	704	0.2+	0.1-
1960 09 26	675	0.0	1.8+	1998 12 15	704	1.0-	1.4+	2000 03 27	699	0.6-	0.1-
1960 09 28	675	0.5-	1.5+	1998 12 15	704	0.3+	1.6+	2000 03 27	699	0.6-	0.0
1960 09 29	675	0.5-	1.7+	1998 12 15	704	(1.0-	3.0+)	2000 03 27	699	0.1+	0.2-
1960 10 22	675	0.8-	1.1+	1998 12 15	704	(2.3-	0.2-)	2000 03 27	699	0.9-	0.1-
1960 10 25	675	(3.1+	3.5+)	1998 12 22	704	0.4+	1.3+	2000 04 05	704	0.9-	0.6-
1996 03 24	809	(3.0+	5.1+)	1998 12 22	704	0.3+	0.7+	2000 04 05	704	0.7+	0.6-
1996 03 24	809	(2.3+	4.7+)	1998 12 22	704	0.5+	0.6-	2000 04 05	704	0.1-	0.4-
1996 03 24	809	(1.6+	4.8+)	1998 12 22	704	0.4-	0.1-	2000 04 05	704	1.2+	1.1-
1996 03 27	809	1.2+	1.4+	1998 12 22	704	0.4+	0.5+	2000 04 08	704	0.4-	0.0
1996 03 27	809	0.4+	1.8+	2000 02 02	704	0.3-	0.4+	2000 04 08	704	0.5-	0.5-
1996 03 27	809	0.3+	1.7+	2000 02 02	704	0.2+	0.6+	2000 04 08	704	0.7+	0.1+
1996 04 15	809	0.7+	1.9+	2000 02 02	704	0.2-	1.2+	2000 04 08	704	0.4-	0.4-
1996 04 15	809	0.1+	1.4+	2000 02 02	704	0.7+	0.2+	2000 04 11	608	0.5+	1.1-
1996 04 15	809	0.1-	0.9+	2000 02 02	704	0.3-	1.1+	2000 04 11	608	0.3-	1.3-
1996 04 17	809	0.2-	1.6+	2000 02 08	704	0.2-	0.8+	2000 04 11	608	0.1+	1.9-
1996 04 17	809	0.1+	1.1+	2000 02 08	704	0.0	0.4+				
1996 04 17	809	0.4+	1.0+	2000 02 08	704	0.5+	0.9-				

(14744)* 2092 P-L = 1990 RR₁₂ = 1999 XA₁₂₂

Discovered 1960 Sept. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Doppler (*MPC* 39494)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	83.57254		(2000.0)		P		Q	
n	0.22893446	ω	11.25964		+0.90694854		+0.41792368	
a	2.6464393	Ω	323.89030		-0.39310239		+0.79468456	
e	0.1241625	i	5.13677		-0.15137655		+0.44024567	
P	4.31	H	14.0		G	0.15	U	2

Residuals in seconds of arc

1960 09 26	675	0.1+	1.5+	1999 10 30	699	0.2+	0.2-	1999 12 07	699	0.5+	1.3+
1960 09 28	675	0.2+	0.5-	1999 10 30	699	0.6-	0.2+	1999 12 07	699	0.3+	0.8+
1960 09 29	675	0.2-	2.4-	1999 10 30	699	0.1+	1.3+	1999 12 08	704	0.2+	0.8+
1960 10 22	675	0.2+	0.7+	1999 11 03	704	0.2-	0.2+	1999 12 08	704	0.4+	0.4+
1960 10 25	675	0.0	1.1+	1999 11 03	704	0.0	0.5-	1999 12 08	704	0.0	0.6+
1960 10 26	675	0.5+	1.8-	1999 11 03	704	0.7+	0.7-	1999 12 08	704	0.3+	0.7+
1990 09 15	675	0.3+	0.3+	1999 11 03	704	0.5-	0.9-	1999 12 08	704	0.1+	0.8+

1990 09 15	675	0.4-	0.1-	1999 11 03	704	1.0+	1.3-	1999 12 13	703	0.2-	0.3-
1997 02 08	566	1.0-	0.2-	1999 11 09	699	0.1-	0.4-	1999 12 13	703	0.2+	0.3-
1997 02 08	566	0.2-	0.1-	1999 11 09	699	0.4+	0.2-	1999 12 13	703	0.1-	0.3+
1997 02 08	566	1.1+	0.2+	1999 11 09	699	0.4+	0.2-	1999 12 13	703	0.1-	0.5-
1999 10 12	704	0.1+	0.1-	1999 11 13	703	0.2-	0.1-	1999 12 15	704	0.2+	0.1+
1999 10 12	704	0.0	0.2+	1999 11 13	703	0.4-	0.1+	1999 12 15	704	0.4+	0.4-
1999 10 12	704	0.5+	0.2-	1999 11 13	703	0.1-	0.1+	1999 12 15	704	0.4-	0.5-
1999 10 12	704	0.1-	0.2-	1999 11 13	703	0.0	0.1+	1999 12 15	704	0.0	1.6-
1999 10 12	704	0.4-	0.4+	1999 11 14	703	0.4-	0.3-	2000 01 04	704	0.2-	0.6-
1999 10 13	704	0.1+	0.2-	1999 11 14	703	0.3-	0.2-	2000 01 04	704	0.1+	0.4-
1999 10 13	704	0.4-	0.1+	1999 11 14	703	0.2-	0.2+	2000 01 04	704	0.6+	0.6+
1999 10 13	704	0.0	0.2+	1999 11 14	703	0.5-	0.1+	2000 01 04	704	0.8+	0.8+
1999 10 13	704	0.4-	0.6+	1999 12 07	703	0.4-	0.7-	2000 01 06	704	0.1-	0.6-
1999 10 13	704	0.4-	0.4+	1999 12 07	703	0.6-	0.3+	2000 01 06	704	0.0	1.3-
1999 10 21	699	1.8+	1.1+	1999 12 07	703	0.5-	0.6-	2000 01 06	704	0.6+	0.2-
1999 10 21	699	1.4-	0.4+	1999 12 07	703	0.8-	0.2+	2000 01 06	704	0.3-	0.7-
1999 10 21	699	0.9+	0.7+	1999 12 07	699	0.7-	1.5+	2000 01 06	704	0.2+	0.4-

(14745)* 2154 P-L = 1998 XB₈₇

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Doppler (*MPC* 33995)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	81.70715		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.21091268	ω	256.71108		-0.15556246		-0.98396820
a	2.7951230	Ω	202.80002		+0.97088036		-0.13601287
e	0.1049727	i	13.00690		+0.18218577		-0.11535635
P	4.67	H	14.2	G	0.15	U	2

Residuals in seconds of arc

1960 09 24	675	0.7+	0.4-	2000 03 04	703	0.4-	0.3+	2000 04 06	704	0.1+	0.8-
1960 09 26	675	0.8-	0.6-	2000 03 04	703	0.0	0.6-	2000 04 06	704	0.2-	1.6-
1960 09 28	675	0.6-	0.7-	2000 03 04	703	0.4+	0.6+	2000 04 07	704	1.0+	0.2+
1960 09 29	675	0.7+	0.3+	2000 03 04	703	0.3-	0.6+	2000 04 07	704	0.5+	0.4-
1960 10 26	675	0.2+	0.3+	2000 04 02	699	0.3+	0.1-	2000 04 07	704	0.3-	1.4-
1993 11 12	033	0.1-	1.1+	2000 04 02	699	0.1+	0.3+	2000 04 07	704	(0.4-	2.5-)
1993 11 12	033	0.1-	0.5+	2000 04 02	699	0.7+	1.1+	2000 04 08	704	1.4+	0.7+
1998 12 15	704	0.3-	0.7-	2000 04 05	704	1.0-	0.5+	2000 04 08	704	0.3+	0.7+
1998 12 15	704	0.9+	0.4+	2000 04 05	704	0.2+	0.4+	2000 04 08	704	0.3+	0.3-
1998 12 15	704	0.5+	0.2+	2000 04 05	704	0.1+	0.6+	2000 04 08	704	0.5-	0.6-
1998 12 15	704	0.8-	0.7-	2000 04 05	704	0.3-	0.5+	2000 04 08	704	0.1+	0.7-
1998 12 22	704	0.4-	0.0	2000 04 05	704	0.2-	0.1+	2000 04 10	704	0.1+	1.3+
1998 12 22	704	0.0	0.4-	2000 04 06	704	0.3-	0.3-	2000 04 10	704	0.5-	0.1+
1998 12 22	704	(2.6+	0.1+)	2000 04 06	704	0.2-	0.4-	2000 04 10	704	1.5-	0.6-

(14746)* 2164 P-L = 1990 TA₁₀

Discovered 1960 Sept. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 17461)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	208.48571		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.26301282	ω	50.28688		+0.94472340		+0.32591580
a	2.4125969	Ω	290.66562		-0.31128840		+0.85739212
e	0.1851604	i	2.18846		-0.10294289		+0.39831851
P	3.75	H	14.4	G	0.15	U	2

Residuals in seconds of arc

1960 09 26	675	0.9+	0.4+	1990 10 14	033	0.5-	0.0	2000 03 10	704	0.2-	0.3-
1960 09 28	675	0.4-	0.1+	1998 12 14	704	0.0	0.2-	2000 03 10	704	0.3+	0.3-
1960 09 29	675	0.2+	0.6-	1998 12 14	704	0.7+	0.7-	2000 03 10	704	0.3+	0.5+
1960 10 25	675	1.0-	0.7+	1998 12 14	704	1.5+	0.9-	2000 03 11	704	0.2+	0.1+
1960 10 26	675	0.5-	1.3+	1998 12 14	704	0.6+	1.0-	2000 03 11	704	0.1+	0.4+
1990 09 24	095	(0.4-	2.9+)	1998 12 17	704	1.0-	1.1+	2000 03 11	704	0.0	0.1-
1990 10 10	033	0.2-	0.3+	1998 12 17	704	1.8-	0.5+	2000 03 11	704	0.1+	0.3-
1990 10 11	033	0.2-	0.2-	1998 12 17	704	0.0	0.7+	2000 04 07	699	0.7+	1.0+

1990 10 11	033	0.6+	0.0	1998 12 17	704	(0.8−	2.9+)	2000 04 07	699	0.4−	0.7+
1990 10 12	033	0.4+	0.4−	2000 03 10	704	0.1+	0.1−	2000 04 07	699	0.3−	0.2−
1990 10 13	033	0.1+	0.5−	2000 03 10	704	0.1+	0.2−	2000 04 07	699	0.4−	0.1+

(14747)* 2541 P-L = 1975 TZ = 1990 RV₁

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 17650), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	189.67204	(2000.0)		P	Q		
<i>n</i>	0.26235675	ω	321.10639	+0.98740527	+0.15796032		
<i>a</i>	2.4166174	Ω	29.80869	−0.14031235	+0.90032452		
<i>e</i>	0.2150363	<i>i</i>	1.02691	−0.07309775	+0.40554198		
<i>P</i>	3.76	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.0	0.0	1992 02 26	691	0.6+	0.3+	2000 03 11	704	0.0	0.5−
1960 09 28	675	0.0	0.3+	1998 12 14	704	0.5−	1.3+	2000 03 11	704	0.3+	0.2+
1960 09 29	675	0.6+	0.4+	1998 12 14	704	0.3+	0.3+	2000 03 11	704	1.2+	0.0
1960 10 22	675	0.6−	0.7+	1998 12 14	704	0.1+	0.3−	2000 04 04	704	0.9+	0.6+
1960 10 25	675	0.3+	1.1−	1998 12 14	704	0.7−	1.5−	2000 04 04	704	0.7−	1.1+
1960 10 26	675	0.8−	0.4+	1998 12 17	704	0.9+	1.3−	2000 04 04	704	0.7−	1.5+
1975 10 03	095	0.2−	0.6+	1998 12 17	704	0.6−	1.2+	2000 04 05	704	0.0	0.5+
1990 09 15	675	0.5−	0.2−	2000 03 10	704	0.3−	0.3−	2000 04 05	704	0.4+	0.2+
1990 09 17	675	0.2+	0.6+	2000 03 10	704	0.0	0.1−	2000 04 05	704	0.4−	0.4+
1990 09 17	675	0.2+	0.2+	2000 03 10	704	0.7−	1.1−	2000 04 05	704	0.3+	0.1+
1990 09 23	095	(1.4−	7.7−)	2000 03 10	704	0.4−	0.8−	2000 04 05	704	0.6+	1.1+
1992 02 26	691	0.4+	0.3+	2000 03 11	704	0.1−	0.4−				
1992 02 26	691	0.2+	0.1−	2000 03 11	704	0.1−	0.4−				

(14748)* 2620 P-L = 1993 RK₁₆

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 25336)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	2.73175	(2000.0)		P	Q		
<i>n</i>	0.23796297	ω	162.46540	−0.97853023	+0.20562310		
<i>a</i>	2.5790700	Ω	29.41182	−0.19236201	−0.88666632		
<i>e</i>	0.1154427	<i>i</i>	1.64084	−0.07399628	−0.41417626		
<i>P</i>	4.14	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.0	1.0−	1996 06 15	566	0.3−	1.0−	2000 04 05	704	0.2+	0.2−
1960 09 26	675	0.5+	0.1−	1996 06 15	566	0.5−	1.5−	2000 04 05	704	0.7+	0.8−
1960 09 28	675	0.1−	0.4+	1996 06 15	566	0.2−	0.6−	2000 04 05	704	0.7+	0.1−
1960 10 17	675	0.0	0.3+	1998 12 14	704	0.4+	0.8−	2000 04 06	704	0.7+	0.0
1960 10 22	675	1.2−	0.1+	1998 12 14	704	0.4+	1.6−	2000 04 06	704	0.1+	0.5−
1960 10 25	675	0.8+	0.0	1998 12 14	704	(3.2−	1.8−)	2000 04 06	704	0.0	0.0
1960 10 26	675	0.2+	0.1−	1998 12 14	704	(1.6−	2.1−)	2000 04 06	704	0.2+	0.2−
1993 09 15	809	1.7+	1.4−	1998 12 17	704	0.3−	0.1+	2000 04 06	704	0.3+	0.4+
1993 09 15	809	(1.3+	2.2−)	1998 12 17	704	1.4+	0.3+	2000 04 07	704	0.3−	0.2+
1993 09 15	809	0.4−	1.8−	1998 12 17	704	0.7−	0.5−	2000 04 07	704	0.6−	0.1+
1993 09 19	675	0.5+	0.4+	1998 12 17	704	0.7−	0.0	2000 04 07	704	0.3−	0.2−
1993 09 19	675	1.1−	0.4+	1998 12 17	704	(1.3−	2.4+)	2000 04 08	704	0.1−	0.4−
1993 09 22	809	0.5−	1.0+	2000 03 01	703	0.5−	0.5+	2000 04 08	704	0.7−	0.4+
1993 09 22	809	0.5+	0.5−	2000 03 01	703	0.1−	0.6+	2000 04 08	704	0.1−	0.8+
1993 09 22	809	0.2+	0.7+	2000 03 01	703	0.1−	0.4+	2000 04 08	704	0.2+	0.4+
1993 09 23	675	1.6−	0.1−	2000 03 01	703	0.5−	0.0	2000 04 08	704	0.0	0.4+
1993 09 23	675	0.3+	1.8+	2000 04 05	704	0.1+	0.3−				

(14749)* 2626 P-L = 1954 ON = 1996 PC₉

Discovered 1960 Sept. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 32503), A. Gnädig (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	325.21046	(2000.0)		P	Q		
<i>n</i>	0.18876710	ω	77.94643	−0.61567353	+0.78786378		
<i>a</i>	3.0096674	Ω	154.03508	−0.73542906	−0.56778761		
<i>e</i>	0.0969184	<i>i</i>	1.92716	−0.28300214	−0.23851185		
<i>P</i>	5.22	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1954 07 29	675	0.3−	1.0−	1997 10 30	704	0.4+	0.7−	2000 03 27	691	0.5−	0.1+
1954 07 29	675	0.7−	0.5−	1997 10 30	704	0.8+	0.2−	2000 03 27	691	0.4−	0.2+
1960 09 26	675	0.7+	0.6+	1997 10 30	704	(2.3+	0.6+)	2000 03 30	120	0.4−	0.2+
1960 09 28	675	0.1+	0.3+	1997 10 30	704	(3.6+	1.2+)	2000 03 30	120	1.0−	0.1+
1960 09 29	675	0.8+	0.9+	1997 10 31	704	(3.4−	2.7−)	2000 03 30	120	0.2−	0.1−
1960 10 17	675	0.1+	0.2−	1997 10 31	704	(3.3−	2.4−)	2000 04 02	699	0.0	0.2+
1960 10 22	675	0.2−	1.4−	1997 10 31	704	(3.6−	2.9−)	2000 04 02	699	0.2−	0.2−
1960 10 25	675	0.5+	0.7−	1997 10 31	704	(4.2−	2.1−)	2000 04 02	699	0.1−	0.1+
1960 10 26	675	0.4−	0.4+	1997 10 31	704	(5.7−	1.6−)	2000 04 02	699	0.1−	0.2−
1991 09 06	413	(3.2−	0.1+)	1997 11 03	704	(2.4+	2.0+)	2000 04 05	704	0.2+	0.3+
1991 09 06	413	(2.6−	1.0−)	1997 11 03	704	0.8−	1.5+	2000 04 05	704	0.2+	0.1−
1995 05 29	691	1.5+	1.0+	1997 11 03	704	0.1−	1.0+	2000 04 05	704	0.1+	0.1−
1995 05 29	691	1.9+	0.4+	1997 11 03	704	(5.1−	2.6+)	2000 04 05	704	0.3−	0.4−
1995 05 29	691	0.1+	0.4+	1997 11 06	704	(5.4−	2.1−)	2000 04 05	704	0.1−	0.3−
1996 08 08	809	0.2−	1.1+	1997 11 06	704	(4.8−	0.8−)	2000 04 06	704	0.0	0.2+
1996 08 08	809	0.4−	0.6+	1997 11 06	704	(4.5−	0.6−)	2000 04 06	704	0.2−	0.2−
1996 08 08	809	0.4−	0.8+	1997 11 06	704	(3.6−	1.1−)	2000 04 06	691	0.3−	0.0
1996 08 09	809	0.2+	0.1−	1997 11 06	704	(5.9−	0.6−)	2000 04 06	704	0.1+	0.1−
1996 08 09	809	0.1+	0.8−	2000 03 09	704	0.9+	0.1+	2000 04 06	691	0.2−	0.0
1996 08 09	809	0.0	0.3−	2000 03 09	704	0.3−	0.3−	2000 04 06	704	0.2−	0.2−
1997 09 01	910	0.5−	0.1+	2000 03 09	704	0.0	0.8−	2000 04 06	704	0.2−	0.0
1997 09 01	910	0.6−	0.1+	2000 03 09	704	0.2+	0.8+	2000 04 06	691	0.3−	0.0
1997 09 01	910	0.6−	0.1+	2000 03 09	704	0.4−	0.3+	2000 04 07	704	0.2+	0.3+
1997 10 29	704	1.0−	0.4+	2000 03 14	703	0.6+	0.3+	2000 04 07	704	0.3+	0.7+
1997 10 29	704	0.2+	1.1+	2000 03 14	703	0.9+	0.3+	2000 04 07	704	0.6+	0.1−
1997 10 29	704	1.2+	1.5+	2000 03 14	703	0.0	0.3+	2000 04 07	704	0.6+	0.1+
1997 10 29	704	0.0	0.4−	2000 03 14	703	0.5−	0.1+	2000 04 07	704	0.3+	0.2+
1997 10 29	704	1.1−	0.7−	2000 03 27	691	0.6−	0.1+				

(14750)* 2654 P-L = 1998 YD₉

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Doppler (*MPC* 34264)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	66.72717	(2000.0)		P	Q		
<i>n</i>	0.18318835	ω	307.11599	+0.04917378	−0.99862278		
<i>a</i>	3.0704650	Ω	140.05350	+0.92517022	+0.03864175		
<i>e</i>	0.1718856	<i>i</i>	1.63226	+0.37635356	+0.03548755		
<i>P</i>	5.38	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.0	0.3−	1998 12 23	691	(3.6+	2.7−)	2000 03 11	699	0.3−	0.0
1960 09 24	675	0.9−	0.2+	1998 12 23	691	0.2−	0.3+	2000 03 11	704	0.5+	0.3+
1960 09 26	675	0.2+	0.6−	1998 12 23	691	0.2−	0.4−	2000 03 11	704	0.5+	0.1−
1960 09 26	675	0.3+	0.3+	1998 12 23	327	0.4−	0.1−	2000 03 11	704	(0.5+	2.3+)
1960 09 28	675	0.6−	0.6+	1998 12 23	327	0.3−	0.2−	2000 03 11	704	0.5+	0.5+
1960 09 28	675	0.5+	1.2+	1998 12 23	327	0.6−	0.1−	2000 03 14	703	0.6+	0.3+
1994 01 18	691	0.4−	0.1−	1998 12 24	327	0.4−	0.3+	2000 03 14	703	0.3+	0.1+
1994 01 18	691	1.2−	0.1−	1998 12 24	327	0.2−	0.2−	2000 03 14	703	0.8−	0.9+
1994 01 18	691	1.6+	0.6−	1998 12 24	327	0.2−	0.4+	2000 03 14	703	0.5−	0.1+
1998 11 20	699	0.7+	0.3+	1998 12 26	327	0.6+	0.7−	2000 04 05	704	0.2+	1.4+
1998 11 20	699	0.4+	0.3+	1998 12 26	327	0.8−	0.2−	2000 04 05	704	0.7+	0.7+
1998 11 20	699	0.5−	0.1−	1998 12 26	327	0.8−	0.8+	2000 04 05	704	0.1+	0.1+
1998 11 24	704	0.5−	0.5+	1998 12 26	327	0.0	0.2+	2000 04 05	704	0.6+	0.4+
1998 11 24	704	0.6+	1.6−	2000 03 06	608	0.2−	0.9−	2000 04 05	704	0.6+	0.4+
1998 11 24	704	0.6+	0.2+	2000 03 06	608	0.1−	1.2−	2000 04 06	704	0.3+	0.2+
1998 11 24	704	1.9+	0.0	2000 03 06	608	0.2−	1.5−	2000 04 06	704	0.5+	0.2−

2000 APR. 18

1998 11 24	704	0.6+	0.6+	2000 03 11	699	0.9-	0.1+	2000 04 06	704	0.3-	0.2+
1998 11 25	699	0.8-	0.2+	2000 03 11	699	0.4-	0.2-	2000 04 06	691	0.1-	0.1-
1998 11 25	699	0.6+	0.5+	2000 03 11	699	0.8-	0.4+	2000 04 06	691	0.1-	0.2-
1998 11 25	699	0.5-	0.3-	2000 03 11	704	0.4+	0.5+	2000 04 06	691	0.4-	0.3-

(14751)* 2688 P-L = 1999 AO₂₆

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 33735)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	228.65589	(2000.0)	
<i>n</i>	0.18831264	ω	196.46720
<i>a</i>	3.0145078	Ω	126.05402
<i>e</i>	0.1021494	<i>i</i>	1.63408
<i>P</i>	5.23	<i>H</i>	14.7

Residuals in seconds of arc

1960 09 24	675	0.5-	0.5-	1997 10 29	704	(0.5+	2.6-)	2000 03 11	704	0.2+	0.4+
1960 09 26	675	0.3+	0.8-	1997 10 29	704	(2.6-	2.8-)	2000 03 11	704	1.3+	1.2+
1960 09 28	675	0.6+	0.5+	1997 11 06	704	0.9+	1.9+	2000 03 11	704	0.2+	1.1+
1960 09 29	675	0.9+	1.5-	1997 11 06	704	0.8-	0.4+	2000 03 12	691	0.1-	0.4-
1960 10 17	675	0.8-	0.3-	1997 11 06	704	0.8-	1.8+	2000 03 12	691	0.4-	0.4-
1960 10 25	675	0.4+	0.9+	1997 11 06	704	(0.0	2.4+)	2000 03 12	691	0.3-	0.2-
1960 10 26	675	0.9-	1.5+	1997 11 06	704	0.3+	1.9+	2000 04 05	704	0.2-	0.1-
1992 11 27	691	0.3+	0.2-	1999 01 08	691	0.3-	1.0-	2000 04 05	704	1.7+	0.2+
1992 11 27	691	0.5+	0.4-	1999 01 08	691	0.1-	0.9-	2000 04 05	704	0.5+	1.2+
1996 07 21	566	0.2-	0.2+	1999 01 08	691	0.1-	0.9-	2000 04 06	704	0.2+	0.8+
1996 07 21	566	0.1-	0.3-	1999 01 16	691	0.6-	0.6-	2000 04 06	704	0.7+	0.5+
1996 07 21	566	0.1-	0.3+	1999 01 16	691	0.2-	0.7-	2000 04 06	704	0.5+	1.1+
1997 10 29	704	1.3-	1.2+	1999 01 16	691	0.7-	0.6-	2000 04 06	704	0.2+	0.8+
1997 10 29	704	0.8-	1.1+	2000 03 11	704	0.5-	1.3+				

(14752)* 3005 P-L = 1989 EH₃

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 14627)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano			
<i>M</i>	273.92884	(2000.0)	
<i>n</i>	0.18780870	ω	346.31673
<i>a</i>	3.0198978	Ω	280.08166
<i>e</i>	0.0647027	<i>i</i>	9.35308
<i>P</i>	5.25	<i>H</i>	12.7

Residuals in seconds of arc

1960 09 24	675	0.8+	0.4+	1989 03 03	809	0.0	0.4+	2000 03 06	608	0.5-	1.2-
1960 09 24	675	0.6+	0.6+	1989 12 14	704	0.8-	1.1+	2000 03 06	608	0.6-	1.0-
1960 09 25	675	0.1+	0.7+	1989 12 14	704	0.6-	1.6-	2000 03 06	608	0.6-	1.6-
1960 09 26	675	1.2-	0.8+	1989 12 14	704	0.0	0.3+	2000 03 09	704	0.6-	0.8+
1960 09 26	675	0.6+	0.8+	1989 12 14	704	0.2+	2.0-	2000 03 09	704	0.3+	0.3+
1960 09 27	675	1.3-	1.2-	1989 12 14	704	0.4+	0.6-	2000 03 09	704	0.1-	0.9+
1960 09 28	675	0.5+	0.8+	1989 12 17	704	0.9-	0.1+	2000 03 09	704	0.2+	0.7+
1960 09 29	675	1.4-	0.1+	1989 12 17	704	1.0-	0.2-	2000 03 09	704	(0.1+	2.3+)
1989 03 02	809	0.7+	0.2+	1989 12 17	704	2.1+	0.6+	2000 04 07	704	0.3-	1.0+
1989 03 02	809	0.3+	1.0+	1989 12 17	704	0.1-	0.3+	2000 04 07	704	0.5+	0.5+
1989 03 02	809	0.6+	0.6+	2000 02 28	106	0.6+	0.0	2000 04 07	704	(2.8+	0.8-)
1989 03 03	809	0.7-	0.3+	2000 02 28	106	1.0+	0.3+				
1989 03 03	809	0.0	0.0	2000 02 28	106	0.8+	0.6+				

(14753)* 4592 P-L = 1992 SW₂₀

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 21600)

M.P.C. 39919

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

(2000.0)				P		Q	
<i>M</i>	249.49600						
<i>n</i>	0.21519705	ω	160.10251	+0.76790576		+0.63977780	
<i>a</i>	2.7579000	Ω	160.01885	-0.59955065		+0.73528443	
<i>e</i>	0.1756669	<i>i</i>	5.32346	-0.22552108		+0.22369883	
<i>P</i>	4.58	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.5-	0.2+	1995 02 24	691	0.2-	0.1+	2000 03 14	703	(2.2-	0.2-)
1960 09 26	675	0.5+	0.6+	1995 02 24	691	0.3-	0.3+	2000 03 14	703	0.7-	0.2+
1960 09 27	675	0.5+	0.1-	1995 03 02	691	0.1+	0.2-	2000 03 14	703	0.3-	0.8+
1960 09 28	675	0.5+	0.6+	1995 03 02	691	0.5+	0.0	2000 03 14	703	0.1-	0.3-
1960 10 17	675	0.3+	0.7+	1995 03 02	691	0.2-	0.2-	2000 04 04	699	0.4-	0.1-
1960 10 22	675	0.5-	1.5-	1995 03 31	691	0.6-	0.0	2000 04 04	699	0.1-	0.4+
1960 10 25	675	0.2-	0.8-	1995 03 31	691	0.2-	0.0	2000 04 04	699	0.6-	0.1-
1960 10 26	675	0.9-	0.4+	1995 03 31	691	0.4-	0.2-	2000 04 04	699	0.2-	0.0
1992 09 22	809	(0.1-	3.2+)	1995 04 05	691	0.3-	0.2+	2000 04 08	704	1.2+	0.2-
1992 09 22	809	(0.7-	2.2+)	1995 04 05	691	0.4+	0.0	2000 04 08	704	1.0+	0.8+
1992 09 22	809	(0.6-	2.7+)	1995 04 05	691	0.0	0.0	2000 04 08	704	0.7+	0.2+
1992 09 23	809	(0.8-	2.1+)	1999 02 12	704	0.4-	0.5+	2000 04 08	704	1.0+	1.4+
1992 09 23	809	0.4-	1.5+	1999 02 12	704	0.7+	0.5+	2000 04 08	704	(2.5+	1.0+)
1992 09 23	809	0.9-	1.9+	1999 02 12	704	0.9+	0.4+				
1995 02 24	691	0.0	0.4+	1999 02 12	704	0.2-	0.6+				

(14754)* 4806 P-L = 3257 T-3

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 12699), K. Hurukawa (unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

(2000.0)				P		Q	
<i>M</i>	4.57075						
<i>n</i>	0.23413019	ω	338.83710	-0.75765139		-0.65247707	
<i>a</i>	2.6071405	Ω	160.40923	+0.60521724		-0.71122906	
<i>e</i>	0.1103095	<i>i</i>	2.63734	+0.24428766		-0.26158535	
<i>P</i>	4.21	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	1.0-	0.2+	2000 01 07	704	0.5+	1.0+	2000 02 12	704	0.6+	0.1+
1960 09 24	675	1.1+	0.9-	2000 01 07	704	0.1+	0.6+	2000 02 12	704	0.3-	0.5+
1960 09 26	675	0.3-	0.0	2000 01 07	704	0.2-	0.3+	2000 02 26	703	0.3-	0.2+
1960 09 26	675	0.2+	1.0-	2000 01 07	704	0.4-	1.8+	2000 02 26	703	1.0+	0.5-
1960 09 27	675	0.6-	2.0+	2000 01 13	699	0.9+	1.0-	2000 02 26	703	0.1+	0.1+
1960 09 28	675	0.4-	1.4+	2000 01 13	699	0.5+	0.4-	2000 02 26	703	0.9-	0.1+
1960 09 28	675	0.2-	1.1+	2000 01 13	699	0.3+	0.3-	2000 03 03	704	0.2+	0.2+
1977 10 07	675	1.6-	1.1+	2000 01 30	703	0.0	0.6+	2000 03 03	704	0.3+	0.0
1977 10 11	675	(4.3-	0.2-)	2000 01 30	703	0.3-	0.0	2000 03 03	691	0.4-	0.1-
1977 10 11	675	(3.2-	0.1-)	2000 01 30	703	0.1-	0.3+	2000 03 03	704	0.7-	0.1+
1977 10 12	675	0.3+	0.4+	2000 01 30	703	1.0+	0.5+	2000 03 03	704	0.3-	0.2+
1977 10 12	675	0.3+	0.2-	2000 02 02	704	0.1+	0.8-	2000 03 03	691	0.5-	0.3-
1977 10 16	675	1.7+	0.2+	2000 02 02	704	0.7+	0.5-	2000 03 03	704	0.2-	0.4+
1977 10 16	675	0.1-	0.0	2000 02 02	704	0.1+	0.5-	2000 03 03	691	0.6-	0.3-
1977 10 17	675	0.5-	0.0	2000 02 02	704	0.2-	0.4-	2000 03 05	704	0.3-	0.7-
1977 10 17	675	0.4+	1.7-	2000 02 02	704	0.9+	0.7-	2000 03 05	704	0.1-	0.4+
1977 10 21	675	0.4-	0.4-	2000 02 04	704	0.4-	0.6-	2000 03 05	704	0.4+	0.8+
1977 10 21	675	0.7-	1.3-	2000 02 04	704	0.1+	0.4+	2000 03 05	704	0.2-	0.2+
1977 10 22	675	(3.3+	0.2+)	2000 02 04	704	0.3+	0.4-	2000 03 05	704	0.5+	0.5+
1977 10 22	675	1.8+	1.4-	2000 02 04	704	0.0	0.4-	2000 03 09	691	0.6-	0.2-
1996 03 19	566	0.6-	0.6-	2000 02 04	704	0.1-	0.1+	2000 03 09	691	0.7-	0.4-
1996 03 19	566	0.2+	0.1-	2000 02 12	704	0.2-	0.3+	2000 03 09	691	0.7-	0.3-
1996 03 19	566	0.2+	0.3-	2000 02 12	704	0.1+	0.3+				
2000 01 07	704	0.1+	0.0	2000 02 12	704	0.0	0.0				

(14755)* 6069 P-L = 1992 OE₉ = 2000 DS₂₅

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 39497)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	265.27584		(2000.0)	P		Q	
<i>n</i>	0.21286931	ω	289.24857	-0.15134598	+0.98838905		
<i>a</i>	2.7779687	Ω	332.03591	-0.89578312	-0.14290248		
<i>e</i>	0.1590717	<i>i</i>	1.64627	-0.41793181	-0.05163302		
<i>P</i>	4.63	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.1+	0.3-	2000 02 11	704	0.1-	0.2-	2000 03 08	704	0.7-	0.0
1960 09 25	675	0.9+	0.4-	2000 02 11	704	0.6-	1.4+	2000 03 08	704	0.1+	0.7-
1960 09 26	675	0.2-	0.1-	2000 02 25	703	0.0	1.1+	2000 03 08	704	0.2+	0.3+
1960 09 28	675	0.2+	0.6+	2000 02 25	703	0.1+	0.3+	2000 03 08	704	0.6+	0.3+
1960 10 17	675	1.6-	0.7+	2000 02 25	703	0.5-	1.7+	2000 03 08	704	1.0+	0.2-
1960 10 22	675	0.9-	0.6+	2000 02 25	703	0.6-	0.2-	2000 03 08	608	0.1-	0.2-
1960 10 24	675	0.9+	0.5+	2000 02 26	691	0.0	1.4-	2000 03 08	608	0.1+	0.0
1960 10 26	675	0.4-	0.7+	2000 02 26	691	0.1+	0.6-	2000 03 08	608	0.1-	0.0
1992 07 26	809	(0.9+ 2.3+)		2000 02 26	691	0.2+	0.6-	2000 03 09	704	0.2+	0.1-
1992 07 26	809	(1.3+ 2.1+)		2000 02 29	704	0.2+	0.5+	2000 03 09	704	0.1-	0.4-
1992 07 26	809	(1.6+ 2.1+)		2000 02 29	704	0.1+	0.1+	2000 03 09	704	0.3+	0.2-
1992 07 27	809	0.5-	0.5+	2000 02 29	704	0.3+	0.6+	2000 03 09	704	0.4+	0.5-
1992 07 27	809	0.2-	0.4+	2000 02 29	704	0.2-	0.0	2000 03 09	704	0.4+	0.4-
1992 07 27	809	0.3+	0.4+	2000 02 29	704	0.4+	1.0+	2000 03 10	691	0.2-	0.5-
1992 07 28	809	(6.7- 1.2-)		2000 03 03	704	0.2+	1.4+	2000 03 10	691	0.0	0.6-
1992 07 28	809	(6.0- 1.5-)		2000 03 03	704	0.3+	0.2+	2000 03 10	691	0.0	0.4-
1992 07 28	809	(5.8- 1.8-)		2000 03 03	704	0.6-	0.0	2000 03 11	704	0.0	0.2-
1996 05 20	566	0.4+	0.3+	2000 03 03	704	0.1-	0.4+	2000 03 11	704	0.4-	0.7+
1996 05 20	566	0.0	0.1+	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.4-	0.7+
1996 05 20	566	0.0	0.6+	2000 03 04	691	0.0	0.2-	2000 03 11	704	0.4-	0.4+
2000 01 07	704	0.7+	0.0	2000 03 04	691	0.0	0.2-	2000 03 11	704	0.3-	0.9+
2000 01 07	704	0.3+	0.6-	2000 03 04	691	0.1+	0.3-	2000 03 11	691	0.2-	0.5-
2000 01 07	704	0.9+	0.5+	2000 03 05	704	0.1-	0.5+	2000 03 11	691	0.1-	0.6-
2000 01 07	704	0.1-	0.6-	2000 03 05	704	0.1-	0.6+	2000 03 11	691	0.1-	0.5-
2000 02 11	704	1.7+	0.9-	2000 03 05	704	0.3+	0.6+	2000 03 12	691	0.4-	0.2-
2000 02 11	704	0.0	0.5+	2000 03 05	704	0.3-	0.3+	2000 03 12	691	0.3-	0.2-
2000 02 11	704	0.1-	0.1+	2000 03 05	704	0.2-	0.1+	2000 03 12	691	0.4-	0.2-

(14756)* 6232 P-L

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	51.03758		(2000.0)	P		Q	
<i>n</i>	0.18320840	ω	229.84906	-0.12946816	-0.98964686		
<i>a</i>	3.0702410	Ω	227.70457	+0.93332420	-0.10052596		
<i>e</i>	0.1676784	<i>i</i>	4.80380	+0.33487898	-0.10243834		
<i>P</i>	5.38	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.2+	0.8+	1998 11 11	704	(1.7- 2.6+)		2000 02 08	704	0.1-	0.0
1960 09 25	675	0.8+	2.3-	1998 11 11	699	0.4-	0.3+	2000 02 08	704	0.3+	1.6+
1960 09 26	675	0.1+	0.3+	1998 11 11	704	0.8-	0.1+	2000 02 08	704	0.3+	0.7+
1960 09 28	675	0.0	0.4+	1998 11 11	699	0.1+	0.4+	2000 02 08	704	0.3-	0.2-
1960 10 22	675	0.2+	0.6+	1998 11 11	699	0.9+	0.7+	2000 03 08	704	0.7+	0.5-
1960 10 26	675	0.3-	0.0	1998 11 15	691	0.1-	0.1+	2000 03 08	704	0.7+	0.8+
1984 03 05	413	1.0-	0.5+	1998 11 15	691	0.1+	0.1+	2000 03 08	704	1.1+	1.0-
1984 03 05	413	1.3-	1.0-	1998 11 15	691	0.1+	0.0	2000 03 08	704	0.1+	1.3-
1997 09 08	910	0.2-	0.4+	1998 11 21	691	0.3+	0.1-	2000 03 08	704	0.2+	0.1+
1997 09 08	910	0.2-	0.8+	1998 11 21	691	0.1+	0.1+	2000 04 02	699	0.2-	0.2+
1997 09 08	910	0.3-	0.8+	1998 11 21	691	0.2+	0.2+	2000 04 02	699	0.4+	1.2+
1998 11 11	704	0.5-	0.5-	1999 03 10	568	0.0	0.6-	2000 04 02	699	0.7-	0.6+
1998 11 11	704	1.6-	0.0	1999 03 10	568	0.3+	0.7-	2000 04 02	699	1.0+	0.6+

(14757)* 6309 P-L = 1993 TU₂₂ = 1996 GR₇

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.
Id. A. Gnädig (*MPC* 32730)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	267.69727		(2000.0)	P		Q	
<i>n</i>	0.23983807	ω	101.80202	+0.40930330	+0.91202235		
<i>a</i>	2.5656100	Ω	192.45720	-0.87725432	+0.38548476		
<i>e</i>	0.1549635	<i>i</i>	6.97425	-0.25079008	+0.14005972		
<i>P</i>	4.11	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.3-	0.4+	2000 03 04	703	0.6-	0.5-	2000 04 07	699	0.9-	0.2-
1960 09 25	675	0.2-	0.5+	2000 03 04	703	0.2-	0.9-	2000 04 07	699	0.9-	0.2-
1960 09 26	675	0.5-	0.9+	2000 03 04	703	0.3+	0.5+	2000 04 07	699	0.5-	0.4-
1960 09 28	675	0.8-	0.7+	2000 03 09	704	0.2+	0.7+	2000 04 07	704	0.2-	0.5+
1960 10 22	675	1.0+	1.3-	2000 03 09	704	0.9-	1.1+	2000 04 07	699	1.2-	0.1+
1960 10 25	675	1.0+	1.5-	2000 03 09	704	0.8+	1.5+	2000 04 07	704	0.2-	0.1+
1960 10 26	675	0.1+	1.0-	2000 03 10	704	0.0	1.6-	2000 04 07	704	0.2-	0.0
1992 05 02	691	0.1+	0.4-	2000 03 10	704	1.2-	0.7-	2000 04 07	704	0.4-	0.3-
1992 05 02	691	0.5+	0.4-	2000 03 10	704	0.4+	1.2-	2000 04 07	704	0.6-	0.1-
1992 05 02	691	0.7+	0.6-	2000 03 29	691	0.2-	0.2-	2000 04 08	704	0.1+	0.4-
1993 10 09	809	(1.5- 3.4-)		2000 03 29	691	0.3-	0.2-	2000 04 08	704	0.6+	0.3+
1993 10 09	809	(0.6- 3.2-)		2000 03 29	691	0.1-	0.1-	2000 04 08	704	0.1+	0.5-
1993 10 09	809	(0.9- 2.7-)		2000 04 05	704	0.2-	0.1-	2000 04 08	704	0.4+	0.1+
1993 10 11	809	(1.4+ 3.4+)		2000 04 05	704	0.0	0.3-	2000 04 08	704	0.3+	1.1+
1993 10 11	809	(2.1+ 2.8+)		2000 04 05	704	0.3-	0.4-	2000 04 10	704	1.5+	0.2-
1993 10 11	809	0.1+	1.2+	2000 04 05	691	0.3-	0.6-	2000 04 10	704	0.2+	0.3+
1993 10 12	809	1.1+	0.4-	2000 04 05	704	(2.2- 1.7-)		2000 04 10	704	0.2+	0.2-
1993 10 12	809	0.1+	1.5-	2000 04 05	704	0.3-	0.8-	2000 04 10	704	0.9+	1.0-
1993 10 12	809	1.7-	1.5-	2000 04 05	691	0.1-	0.7-	2000 04 10	704	0.4+	0.4+
1993 10 20	809	0.6+	0.7+	2000 04 05	691	0.3-	0.7-	2000 04 10	704	1.0+	0.3-
1993 10 20	809	0.4-	0.1+	2000 04 06	699	0.6-	0.4+	2000 04 10	704	1.4+	0.3+
1993 10 20	809	0.8+	0.4-	2000 04 06	704	0.4-	0.0	2000 04 10	704	0.5+	0.2-
1996 04 12	691	0.2+	0.3+	2000 04 06	699	0.1-	0.1-	2000 04 10	704	0.4+	0.9-
1996 04 12	691	0.2+	0.3+	2000 04 06	704	0.1-	0.1-	2000 04 10	704	1.1+	0.8+
1996 04 12	691	0.1+	0.4+	2000 04 06	704	0.1-	0.1+	2000 04 10	704	0.6+	0.1+
1996 04 19	691	1.3-	0.1-	2000 04 06	699	0.4-	0.6+	2000 04 10	704	0.0	0.2+
1996 04 19	691	1.3-	0.3-	2000 04 06	704	0.4-	0.4-	2000 04 10	704	0.8+	0.7+
1996 04 19	691	0.9-	0.1-	2000 04 06	699	0.6-	0.4+	2000 04 10	704	0.7+	0.8+
2000 03 04	703	1.1+	1.8+	2000 04 06	704	0.2-	0.2-				

(14758)* 6519 P-L = 1973 DQ

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Id. K. Hurukawa (*MPC* 9302)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	54.56890		(2000.0)	P		Q	
<i>n</i>	0.18579346	ω	94.35053	-0.55465711	-0.83156230		
<i>a</i>	3.0416957	Ω	29.39677	+0.73776791	-0.50777909		
<i>e</i>	0.1803707	<i>i</i>	3.42441	+0.38477786	-0.22508784		
<i>P</i>	5.30	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.1-	0.5+	1998 12 16	704	(0.7+	2.6+)	2000 04 05	704	0.2+	0.0
1960 09 26	675	0.3-	0.9+	1998 12 16	704	0.3-	0.5-	2000 04 05	704	0.4+	0.2+
1960 09 26	675	0.6+	0.4+	1998 12 16	704	1.4-	0.8-	2000 04 05	704	0.4+	0.3+
1960 09 27	675	0.2-	0.9+	1998 12 17	704	0.5-	0.0	2000 04 05	704	0.5+	0.1+
1960 09 27	675	0.9+	0.2+	1998 12 17	704	0.3-	0.2-	2000 04 06	704	0.1-	0.3+
1960 09 28	675	0.1-	0.9+	1998 12 17	704	0.2+	0.4+	2000 04 06	704	0.5-	0.4-
1960 09 28	675	1.4+	0.2-	1998 12 17	704	(1.4-	2.1+)	2000 04 06	704	0.1-	0.1+
1960 10 17	675	0.3-	0.1+	1998 12 17	704	1.5-	0.8+	2000 04 06	704	0.5+	0.2+
1960 10 22	675	1.0-	0.2+	1999 01 16	704	0.6+	0.1+	2000 04 06	704	0.3-	0.8+
1960 10 25	675	1.0-	1.0-	1999 01 16	704	0.8+	0.5+	2000 04 07	699	0.2+	0.1+
1960 10 26	675	1.3-	0.6-	1999 01 16	704	0.2+	0.1+	2000 04 07	699	0.7+	0.0
1973 02 27	029	0.3-	0.7+	1999 01 16	704	1.1+	0.4-	2000 04 07	704	0.5-	0.1-
1973 02 28	029	0.0	0.0	1999 01 22	732	0.5+	0.3+	2000 04 07	699	0.3+	0.1-
1973 03 07	029	0.1+	1.1-	1999 01 22	732	0.7+	0.4-	2000 04 07	704	0.3-	0.1-
1998 11 23	411	0.0	1.1+	1999 01 22	732	0.3+	0.2-	2000 04 07	699	0.3+	0.0

1998 11 23	411	0.2+	1.1+	1999 01 23	732	0.2+	0.1+	2000 04 07	704	0.4+	0.2+
1998 11 28	411	0.2-	0.6+	1999 01 23	732	0.2+	0.0	2000 04 07	704	0.3-	0.6+
1998 11 28	411	0.6-	0.6+	1999 01 23	732	0.2+	0.0	2000 04 07	704	0.1-	0.8+
1998 12 14	704	0.9+	0.1-	2000 01 05	699	0.2-	1.2+	2000 04 08	704	0.2-	0.0
1998 12 14	704	0.2-	0.4-	2000 01 05	699	0.5+	0.3+	2000 04 08	704	0.1+	0.2-
1998 12 14	704	0.4-	0.2-	2000 01 05	699	0.3-	1.2+	2000 04 08	704	0.1+	0.0
1998 12 14	704	0.5-	0.5-	2000 04 02	691	0.1-	0.3-	2000 04 08	704	0.0	0.6+
1998 12 14	704	0.5-	0.4-	2000 04 02	691	0.3-	0.4-	2000 04 08	704	0.0	0.0
1998 12 16	704	(2.3+ 0.2-)		2000 04 02	691	0.1-	1.0-				
1998 12 16	704	0.9+	1.0-	2000 04 05	704	0.4+	0.2-				

(14759)* 6520 P-L = 1953 RM₂ = 1998 RO₆₉

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 33055), A. Gnädig (*ibid.*), G. V. Williams (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	113.51681	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.28540558	ω	239.44178	+0.65680013	-0.75390449
<i>a</i>	2.2846924	Ω	169.45864	+0.71767990	+0.61864974
<i>e</i>	0.1341154	<i>i</i>	4.87405	+0.23140692	+0.22113464
<i>P</i>	3.45	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1953 09 06	675	0.5-	0.8-	1998 10 11	120	0.4-	0.3-	2000 03 30	703	0.1+	0.3+
1953 09 06	675	1.5-	0.3+	1998 10 15	704	0.1-	0.2-	2000 03 30	703	0.6-	0.1-
1960 09 24	675	0.3-	0.7+	1998 10 15	704	0.6+	0.4-	2000 04 04	704	0.1+	0.0
1960 09 26	675	0.6-	1.2+	1998 10 15	704	0.3+	0.2-	2000 04 04	704	0.1+	0.3+
1960 09 27	675	0.2-	0.3+	1998 10 15	704	0.5-	0.2-	2000 04 04	704	0.9-	0.7+
1960 09 28	675	0.7+	0.1-	1998 10 15	704	(4.2- 0.5-)		2000 04 04	704	0.1+	0.2-
1960 10 17	675	0.7+	0.7+	1998 10 17	699	0.0	0.4+	2000 04 04	704	0.4+	1.2+
1960 10 22	675	0.3+	0.2-	1998 10 17	699	0.7+	0.1+	2000 04 05	704	0.2-	0.2+
1960 10 25	675	0.1-	0.0	1998 10 17	699	0.7-	0.6+	2000 04 05	704	0.1-	0.3+
1960 10 26	675	0.7+	0.5-	2000 02 27	703	1.3+	1.2+	2000 04 05	704	0.0	0.0
1983 05 07	413	0.6+	0.2+	2000 02 27	703	0.2+	1.3-	2000 04 05	704	0.1+	0.5+
1983 05 07	413	1.8+	0.9-	2000 02 27	703	0.5+	0.9+	2000 04 05	704	0.0	0.6+
1997 05 27	910	0.1-	0.0	2000 02 27	703	0.2-	0.5+	2000 04 06	704	0.5-	0.0
1997 05 28	910	0.4-	0.0	2000 03 08	704	0.2+	0.7+	2000 04 06	704	0.4-	0.2+
1997 05 28	910	0.2-	0.1-	2000 03 08	704	0.2+	0.0	2000 04 06	704	0.2-	0.2+
1998 09 14	704	0.7-	0.4-	2000 03 08	704	0.6+	0.4+	2000 04 06	704	0.2-	0.4+
1998 09 14	704	1.4-	0.2-	2000 03 08	704	0.5-	1.3+	2000 04 06	704	0.0	1.1+
1998 09 14	704	0.4-	0.8-	2000 03 10	704	1.0+	1.1-	2000 04 07	699	1.3-	0.4+
1998 09 18	704	0.3+	0.1+	2000 03 10	704	0.9+	0.8-	2000 04 07	699	1.7+	0.3+
1998 09 18	704	0.1-	1.0+	2000 03 10	704	0.3+	1.0-	2000 04 07	699	0.7-	0.0
1998 09 18	704	0.2-	0.6+	2000 03 10	704	0.4+	0.4-	2000 04 07	699	1.1+	0.0
1998 09 18	704	0.3+	0.1-	2000 03 11	704	0.5-	0.3-	2000 04 07	699	0.5-	0.2+
1998 09 18	704	0.6+	1.4+	2000 03 11	704	0.2-	0.2-	2000 04 07	699	(2.5+ 0.6+)	
1998 09 25	699	0.5+	1.1+	2000 03 11	704	0.3+	0.1+	2000 04 07	699	0.5-	1.0+
1998 09 25	699	0.5+	1.1+	2000 03 11	704	0.7+	0.5-	2000 04 07	699	1.3+	0.7+
1998 09 25	699	0.0	1.4+	2000 03 11	704	0.4+	0.4-	2000 04 10	704	0.8-	0.7+
1998 10 11	120	0.3-	0.1-	2000 03 30	703	1.1-	0.6+	2000 04 10	704	0.4-	0.6+
1998 10 11	120	0.9-	0.9+	2000 03 30	703	(0.1- 2.9+)		2000 04 10	704	0.8-	0.1+

(14760)* 6595 P-L = 2000 DG₉₂

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 39498)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	283.17553	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.26481926	ω	101.50532	+0.00544716	+0.99997524
<i>a</i>	2.4016129	Ω	168.80391	-0.92617825	+0.00672456
<i>e</i>	0.1575807	<i>i</i>	1.31448	-0.37704664	-0.00207166
<i>P</i>	3.72	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.2+	1.1-	2000 03 03	691	0.2-	1.2-	2000 03 26	699	0.8-	0.8+
1960 09 26	675	0.4+	1.8-	2000 03 03	691	0.1-	0.7-	2000 03 26	699	0.6-	0.3+
1960 09 27	675	0.3+	0.1-	2000 03 08	704	0.0	0.6-	2000 03 30	703	0.5-	0.5+
1960 09 28	675	0.3+	0.2+	2000 03 08	704	0.4+	0.3+	2000 03 30	703	0.1+	0.2+
1960 10 17	675	0.1-	0.5+	2000 03 08	704	0.1+	0.5-	2000 03 30	703	0.0	0.4+
1960 10 22	675	1.4-	1.1+	2000 03 08	704	0.4-	0.1-	2000 03 30	703	0.1+	0.4+
1960 10 24	675	0.2+	1.7+	2000 03 08	704	0.5-	0.1-	2000 04 04	704	0.3+	0.2-
1960 10 26	675	0.6-	1.6+	2000 03 10	704	0.1-	0.5-	2000 04 04	704	1.4+	0.0
1996 02 12	327	0.9+	0.0	2000 03 10	704	0.1-	0.4-	2000 04 04	704	0.3-	0.6+
1996 02 12	327	0.5+	0.1+	2000 03 10	704	0.2-	0.2+	2000 04 04	704	1.2+	0.8+
1996 02 12	327	1.0-	0.4-	2000 03 10	704	0.0	0.2+	2000 04 05	704	0.1-	0.0
1996 02 12	327	0.5-	0.4-	2000 03 10	704	0.1+	0.4+	2000 04 05	704	0.1+	0.2+
1997 08 14	910	0.0	0.2-	2000 03 11	704	0.3+	0.3-	2000 04 05	704	0.2+	0.3+
1997 08 14	910	0.1+	0.2-	2000 03 11	704	0.1+	0.0	2000 04 05	704	0.1+	0.1+
1997 08 14	910	0.1+	0.2-	2000 03 11	704	0.5+	0.5+	2000 04 05	704	0.1+	0.1-
2000 02 27	703	0.4+	0.5+	2000 03 11	704	0.0	0.2+	2000 04 06	704	0.1+	0.1-
2000 02 27	703	0.3-	0.7-	2000 03 11	704	0.5+	0.6+	2000 04 06	704	0.0	0.2+
2000 02 27	703	0.5+	0.2+	2000 03 14	703	0.4+	0.2+	2000 04 06	704	0.8+	0.2+
2000 02 27	691	0.0	0.8-	2000 03 14	703	0.7+	0.4+	2000 04 06	704	0.1-	0.4+
2000 02 27	703	1.1-	0.1-	2000 03 14	703	0.1+	0.5-	2000 04 06	704	0.8+	0.3+
2000 02 27	691	0.2-	0.8-	2000 03 14	703	0.0	0.5+	2000 04 10	704	0.7-	0.1+
2000 02 27	691	0.2-	0.7-	2000 03 26	699	0.6-	0.4+	2000 04 10	704	0.7-	0.2-
2000 03 03	691	0.4-	0.7-	2000 03 26	699	0.6-	0.2+	2000 04 10	704	0.2-	0.5-

(14761)* 6608 P-L = 2295 T-3

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. C. J. van Houten (*MPC* 12572)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Williams	
<i>M</i>	84.81242	<i>P</i>	(2000.0)	<i>Q</i>	
<i>n</i>	0.23274945	ω	43.81643	+0.54895366	-0.83551881
<i>a</i>	2.6174413	Ω	12.94757	+0.73490942	+0.46899978
<i>e</i>	0.3084212	<i>i</i>	6.05283	+0.39819345	+0.28626477
<i>P</i>	4.23	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.1-	0.1-	1977 10 21	675	0.8+	0.8-	1998 09 18	704	(2.5-	2.2+)
1960 09 26	675	0.1+	0.2+	1977 10 21	675	2.1-	1.7+	1998 09 25	704	0.6-	0.2+
1960 09 27	675	0.7+	0.4+	1977 10 21	675	(2.7+	1.0-)	1998 09 25	704	(0.8+	2.3-)
1960 09 28	675	0.8+	0.7-	1977 10 22	675	1.5-	0.3+	1998 09 25	704	0.4-	0.7-
1960 10 17	675	0.1+	0.3-	1977 10 22	675	1.1+	1.2-	1998 09 25	704	1.5+	0.3-
1960 10 22	675	1.8-	1.6+	1977 10 22	675	0.2+	0.4+	1998 09 25	704	1.1-	1.1-
1960 10 24	675	0.3+	0.5+	1977 10 22	675	0.9-	1.2-	1998 09 26	327	1.1-	0.2+
1960 10 26	675	0.1-	1.2+	1994 11 06	675	0.3-	0.7+	1998 09 26	327	0.9-	0.2-
1977 10 07	675	0.1-	1.2-	1994 11 06	675	0.7-	0.2+	1998 09 26	327	0.7-	0.0
1977 10 07	675	(1.7-	2.8-)	1994 11 30	675	0.9+	1.2+	1998 09 27	704	0.6+	0.0
1977 10 11	675	0.6+	0.2-	1994 11 30	675	0.1+	0.7+	1998 09 27	704	1.2-	1.1+
1977 10 11	675	0.1-	0.4+	1994 12 02	675	0.0	1.1+	1998 09 27	704	0.1+	1.2-
1977 10 11	675	0.3+	0.3-	1994 12 02	675	0.4-	0.9+	1998 09 27	704	1.1+	0.9-
1977 10 11	675	0.3+	1.1+	1998 08 23	704	1.8+	0.6+	2000 03 10	704	0.2+	0.9+
1977 10 12	675	0.9+	0.9-	1998 08 23	704	(0.2+	2.3+)	2000 03 10	704	1.2-	0.3-
1977 10 12	675	0.9+	0.0	1998 08 23	704	0.4+	0.8+	2000 03 10	704	0.2-	0.7+
1977 10 12	675	0.1+	1.6-	1998 09 14	704	0.3+	1.0+	2000 03 10	704	0.1+	0.0
1977 10 12	675	0.2+	0.3-	1998 09 14	704	0.7-	0.2+	2000 03 11	704	1.3+	0.7-
1977 10 16	675	(1.4+	3.5-)	1998 09 14	704	1.1+	1.0+	2000 03 11	704	0.2-	0.9-
1977 10 16	675	1.2+	0.8-	1998 09 14	704	0.4-	0.8+	2000 03 11	704	0.8+	0.4+
1977 10 16	675	(0.7+	2.6-)	1998 09 18	699	0.6-	0.0	2000 03 11	704	0.7-	1.7+
1977 10 16	675	1.1+	1.2-	1998 09 18	704	0.4-	0.4+	2000 04 05	704	0.2-	1.1-
1977 10 17	675	0.3-	0.5-	1998 09 18	699	0.5-	1.4+	2000 04 05	704	0.5+	0.5+
1977 10 17	675	0.1+	2.1-	1998 09 18	704	(1.8-	2.4-)	2000 04 05	704	0.3+	0.0
1977 10 17	675	0.0	0.5-	1998 09 18	699	1.4-	1.4+	2000 04 05	704	0.4-	0.4+
1977 10 17	675	0.6-	1.5-	1998 09 18	704	0.7+	0.7-				
1977 10 21	675	0.1+	1.4+	1998 09 18	704	0.2-	1.0+				

(14762)* 6647 P-L = 1975 SY

Discovered 1960 Sept. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. E. Bowell (*MPC* 13314)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	212.03398	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26370799	ω	305.85841	+0.94307865	+0.33120050
<i>a</i>	2.4083551	Ω	34.82825	-0.28557374	+0.85293472
<i>e</i>	0.2249007	<i>i</i>	3.02589	-0.17044148	+0.40349547
<i>P</i>	3.74	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1960 09 26	675	0.3+	1.1+	2000 03 01	703	0.5-	0.3-	2000 04 06	704	0.0	0.1+
1960 09 27	675	0.4+	1.0+	2000 03 08	704	0.3-	0.4+	2000 04 06	704	0.1-	0.4-
1960 09 28	675	0.9+	1.0+	2000 03 08	704	0.4-	1.2+	2000 04 06	704	0.0	0.3-
1960 10 17	675	0.4-	1.0+	2000 03 08	704	0.1-	1.2+	2000 04 06	704	0.1-	0.5+
1960 10 22	675	1.0-	0.3+	2000 03 08	704	0.1+	1.5+	2000 04 07	699	0.6+	0.7+
1960 10 25	675	0.8-	0.1-	2000 03 10	704	1.0+	0.5+	2000 04 07	699	0.3+	0.0
1960 10 26	675	0.9-	0.1-	2000 03 10	704	1.0+	0.6+	2000 04 07	704	0.5+	0.1+
1975 09 30	675	0.8-	1.3-	2000 03 10	704	0.6+	0.3+	2000 04 07	699	0.2+	0.1+
1975 10 01	675	0.5-	0.1+	2000 03 10	704	(2.2+	0.9+)	2000 04 07	704	0.7+	0.5+
1975 10 02	675	0.3-	0.2+	2000 03 11	704	0.3-	0.5-	2000 04 07	699	0.1+	1.0+
1975 10 15	675	(2.7-	0.6-)	2000 03 11	704	0.8-	0.4-	2000 04 07	704	0.3+	0.6-
1975 10 16	675	(5.3-	2.7-)	2000 03 11	704	0.2-	0.6-	2000 04 07	704	0.4+	0.2+
1990 10 18	886	1.6+	0.4+	Y 2000 03 11	704	0.8-	0.7-	2000 04 07	704	0.5+	0.6+
1990 10 18	886	(3.5+	2.6+)	Y 2000 03 11	704	0.9-	1.7-	2000 04 08	704	0.5+	0.1-
1990 10 20	886	0.4-	0.7-	Y 2000 03 27	699	0.8-	0.6-	2000 04 08	704	0.3+	0.4-
1990 10 20	886	(0.5+	3.0-)	Y 2000 03 27	699	1.2-	0.4-	2000 04 08	704	0.1-	0.4+
1990 10 24	886	0.6+	1.3-	2000 03 27	699	0.8-	0.3-	2000 04 08	704	0.1-	0.3+
1998 12 17	704	0.5-	0.7+	2000 03 27	699	1.4-	0.2+	2000 04 08	704	0.5+	0.3+
1998 12 17	704	0.2-	1.0+	2000 04 04	704	0.3+	0.2-	2000 04 10	704	0.1+	0.3-
1998 12 17	704	0.0	0.5+	2000 04 04	704	0.2-	1.9+	2000 04 10	704	0.0	0.4-
1998 12 17	704	0.7+	0.2+	2000 04 04	704	0.5-	0.5-	2000 04 10	704	0.2-	0.0
1998 12 17	704	0.4+	0.1+	2000 04 04	704	0.5+	0.9-	2000 04 10	704	0.0	0.1+
1999 01 16	704	0.3+	0.5+	2000 04 04	704	1.1+	0.6+	2000 04 10	704	0.5+	0.1-
1999 01 16	704	0.5-	1.3-	2000 04 05	704	0.2-	0.3+	2000 04 10	704	0.3-	0.0
1999 01 16	704	1.3+	0.9-	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.5-	0.0
1999 01 16	704	0.9-	0.2+	2000 04 05	704	0.1-	0.0	2000 04 10	704	0.4+	0.3-
2000 03 01	703	0.1+	0.0	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.1+	0.2-
2000 03 01	703	0.4+	0.1-	2000 04 05	704	0.2+	0.0				
2000 03 01	703	0.1+	0.3-	2000 04 06	704	0.1-	0.2+				

(14763)* 6793 P-L = 1998 WT₂₁

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 33326)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	271.55415	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.28868584	ω	224.28774	-0.01273729	+0.99880518
<i>a</i>	2.2673526	Ω	45.04544	-0.89789500	+0.00933896
<i>e</i>	0.1381476	<i>i</i>	3.82276	-0.44002538	-0.04796879
<i>P</i>	3.41	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.2-	0.8+	2000 02 16	703	0.4-	0.6+	2000 04 03	704	0.5-	0.2-
1960 09 26	675	0.3-	0.3+	2000 02 16	703	0.6-	0.1+	2000 04 03	704	0.9+	0.4-
1960 09 27	675	0.1+	0.5+	2000 02 16	703	1.7-	0.4+	2000 04 03	704	0.6-	0.8-
1960 09 28	675	0.4+	0.2+	2000 02 16	703	0.6-	0.8+	2000 04 05	704	0.2+	0.1-
1960 10 17	675	0.8+	0.6+	2000 02 26	703	1.3-	1.0+	2000 04 05	704	0.5+	0.4-
1960 10 22	675	2.1-	0.0	2000 02 26	703	0.4-	0.6+	2000 04 05	704	0.9+	0.9-
1997 05 30	552	0.5-	1.7-	2000 02 26	703	1.1+	0.5+	2000 04 05	704	0.8+	0.2-
1997 05 31	552	0.3-	0.7-	2000 02 26	703	0.2+	0.3+	2000 04 05	704	0.3+	0.0
1998 11 18	704	0.2+	0.4-	2000 03 12	704	0.1+	0.4-	2000 04 07	704	0.4+	0.3+
1998 11 18	704	0.1+	0.5-	2000 03 12	704	0.0	0.5-	2000 04 07	704	0.7-	0.1+

1998 11 18	704	(2.5+	1.6-)	2000 03 12	704	0.3-	0.0	2000 04 07	704	0.6+	0.1+
1998 11 18	704	(2.1+	3.2-)	2000 03 12	704	0.3+	0.7-	2000 04 07	704	0.2-	0.1-
1998 11 21	704	0.3+	1.9-	2000 03 12	704	0.2+	0.3-	2000 04 07	704	0.5+	0.2-
1998 11 21	704	(2.0-	0.6-)	2000 03 28	704	0.0	0.2+	2000 04 08	704	0.8+	0.5-
1998 11 21	704	1.4+	0.8-	2000 03 28	704	0.6+	0.8-	2000 04 08	704	0.0	0.6+
1998 11 25	376	0.7-	0.0	2000 03 28	704	0.4+	0.4+	2000 04 08	704	0.4-	0.1-
1998 11 25	376	0.2+	0.3-	2000 03 28	704	0.3-	0.5+	2000 04 08	704	0.6+	0.6+
1998 11 28	376	0.2-	0.7+	2000 04 03	704	0.3-	0.5+	2000 04 08	704	0.4+	0.5+
1998 11 28	376	0.1+	0.6-	2000 04 03	704	0.4-	0.6+				

(14764)* 7072 P-L = 1989 GW

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 14630)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Marsden			
<i>M</i>	53.99948	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.36226474	ω	298.82640	-0.69903937	-0.70727793
<i>a</i>	1.9488811	Ω	196.92586	+0.71417894	-0.69794265
<i>e</i>	0.0777726	<i>i</i>	21.21781	-0.03595007	-0.11240106
<i>P</i>	2.72	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1960 09 25	675	1.1-	0.9-	1989 04 11	809	1.2+	0.3+	1998 09 23	704	1.4+	0.1+
1960 09 27	675	1.2+	0.3+	1989 04 11	809	1.7+	0.7+	1998 10 12	704	0.7+	0.7+
1960 10 17	675	0.4-	0.1+	1989 04 12	809	0.9-	0.8+	1998 10 12	704	0.2-	0.8-
1960 10 22	675	0.4-	0.0	1989 04 12	809	0.5-	2.0+	1998 10 12	704	1.2-	1.4+
1960 10 24	675	(0.5-	2.8+)	1990 11 19	413	1.6-	0.1-	1998 10 12	704	1.7-	0.9+
1960 10 26	675	0.3+	0.5+	1998 08 19	704	0.2-	0.4+	1998 10 12	704	(3.2-	0.6-)
1989 04 01	809	0.1-	0.3+	1998 08 19	704	0.0	0.3-	2000 03 01	703	0.9-	0.7+
1989 04 01	809	0.5+	0.4+	1998 08 19	704	0.3+	0.6+	2000 03 01	703	0.1-	0.0
1989 04 01	809	0.9+	0.3+	1998 08 19	704	0.1+	1.2-	2000 03 01	703	1.5-	0.0
1989 04 02	809	(0.8-	2.8+)	1998 08 19	704	0.7-	1.2-	2000 03 01	703	0.2-	0.7+
1989 04 02	809	0.6+	0.3-	1998 08 24	704	0.6+	1.5-	2000 03 04	703	0.4+	0.2-
1989 04 02	809	0.0	1.3+	1998 08 24	704	1.3-	0.4+	2000 03 04	703	0.0	0.5-
1989 04 03	809	0.9-	1.4+	1998 08 24	704	0.0	0.8+	2000 03 04	703	0.8+	0.1-
1989 04 03	809	0.4+	0.5+	1998 08 24	704	1.1-	0.3+	2000 03 04	703	0.2-	0.0
1989 04 05	809	0.2+	0.3+	1998 08 24	704	0.5+	0.3-	2000 04 07	704	0.3-	0.2-
1989 04 05	809	0.5-	0.2-	1998 08 27	704	0.1-	0.1-	2000 04 07	704	0.4-	0.3+
1989 04 05	809	0.7+	0.9-	1998 08 27	704	1.8+	0.4+	2000 04 07	704	0.2-	0.2+
1989 04 06	809	0.0	1.2+	1998 08 27	704	0.8-	0.3+	2000 04 07	704	0.0	1.1-
1989 04 06	809	0.7+	0.4-	1998 08 27	704	0.9+	0.3-	2000 04 07	704	0.2+	0.2+
1989 04 06	809	1.2+	0.1+	1998 08 27	704	0.5-	0.5-	2000 04 12	704	0.3-	0.6-
1989 04 07	809	0.3-	0.5-	1998 09 19	704	0.2-	0.3+	2000 04 12	704	0.2+	0.8-
1989 04 07	809	0.3+	0.2-	1998 09 19	704	0.1+	0.3+	2000 04 12	704	0.1-	0.7-
1989 04 07	809	0.6+	0.9-	1998 09 19	704	0.5-	0.2+	2000 04 12	704	0.2-	0.5-
1989 04 08	809	1.5-	0.4+	1998 09 20	699	0.5+	1.4+	2000 04 12	704	0.3-	0.2-
1989 04 08	809	0.4-	0.7+	1998 09 20	699	0.4+	0.8+	2000 04 13	704	0.1-	0.8-
1989 04 08	809	0.2+	0.3-	1998 09 20	699	0.2-	1.0+	2000 04 13	704	0.9+	1.1+
1989 04 09	809	1.5-	0.6-	1998 09 23	704	0.9+	0.2+	2000 04 13	704	0.3-	0.0
1989 04 09	809	0.8-	0.1-	1998 09 23	704	1.0+	0.1+	2000 04 13	704	0.3-	0.1-
1989 04 09	809	1.0+	0.5-	1998 09 23	704	0.7+	0.0				
1989 04 11	809	0.7-	0.1+	1998 09 23	704	(2.3+	1.0-)				

(14765)* 9519 P-L = 1978 NL₇

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 14631)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

2000 APR. 18

M.P.C. 39923

Residuals in seconds of arc

1960 10 17	675	0.4+	1.1+	2000 03 14	703	1.1+	0.1-	2000 04 06	699	0.9+	0.5+
1960 10 22	675	0.7-	0.3-	2000 03 27	691	0.4-	0.3-	2000 04 06	704	0.2-	0.3-
1960 10 24	675	0.3-	0.0	2000 03 27	691	0.4-	0.3-	2000 04 06	699	1.0+	0.3-
1960 10 26	675	0.2+	0.2-	2000 03 27	691	0.7+	0.3-	2000 04 06	704	0.1+	0.1-
1978 07 10	675	0.8-	1.3-	Y 2000 04 02	699	1.0-	0.1-	2000 04 06	691	0.3-	0.1-
1978 07 11	675	0.8+	1.2+	Y 2000 04 02	699	0.6-	0.1+	2000 04 06	691	0.4-	0.1-
1978 07 13	675	(1.2+	3.0-)	Y 2000 04 02	699	0.2-	0.1+	2000 04 06	691	0.5-	0.1-
1997 10 30	688	0.6-	0.7+	2000 04 02	699	0.9-	0.3-	2000 04 07	704	0.3+	0.3+
1997 10 30	688	0.4-	0.2+	2000 04 05	704	0.1+	0.1+	2000 04 07	704	0.8-	1.1+
1997 10 31	688	0.2+	0.3+	2000 04 05	704	0.3+	0.2-	2000 04 07	704	0.4-	0.3+
1997 10 31	688	0.0	0.4+	2000 04 05	704	0.3+	0.2-	2000 04 07	704	1.9-	1.1+
2000 03 09	704	0.1-	0.5-	2000 04 05	704	0.1+	0.1+	2000 04 10	704	1.3+	0.3+
2000 03 09	704	1.0+	0.0	2000 04 05	704	0.4+	0.2+	2000 04 10	704	0.3+	0.4+
2000 03 09	704	0.6+	0.7+	2000 04 06	699	1.0+	0.1-	2000 04 10	704	0.4+	1.1+
2000 03 14	703	0.4-	0.5+	2000 04 06	699	0.6+	0.1-	2000 04 10	704	1.2-	0.2+
2000 03 14	703	(1.1-	2.5+)	2000 04 06	704	0.0	0.1+	2000 04 10	704	0.1+	0.6+
2000 03 14	703	0.4+	1.2-	2000 04 06	704	0.2+	1.1-				

(14766)* 9594 P-L = 1998 XB₃₈

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 33535)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.53857		(2000.0)	P	Q
<i>n</i>	0.16124368	ω	59.54336	-0.35468173	-0.93455016
<i>a</i>	3.3430862	Ω	51.25825	+0.84477965	-0.33341216
<i>e</i>	0.0172401	<i>i</i>	2.09997	+0.40068469	-0.12430737
<i>P</i>	6.11	<i>H</i>	13.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.8-	0.7-	1998 12 17	704	1.9+	0.4+	2000 03 11	704	0.6+	0.2-
1960 10 17	675	0.5+	1.0+	1999 01 16	704	0.7-	0.3+	2000 03 11	704	0.1-	0.1+
1960 10 22	675	1.4-	0.3+	1999 01 16	704	1.0-	1.0+	2000 03 11	699	0.2-	0.0
1960 10 24	675	0.4+	0.9+	1999 01 16	704	0.3-	1.7+	2000 03 11	704	0.4+	0.6+
1960 10 26	675	0.5+	0.7+	2000 02 01	703	1.9-	0.6+	2000 03 11	704	0.4+	0.2+
1992 12 19	010	1.1+	0.7-	2000 02 01	703	1.1-	0.4-	2000 03 11	699	0.1-	0.2+
1992 12 19	010	0.6-	0.7-	2000 02 01	703	0.4-	0.7+	2000 03 11	699	0.4-	0.1+
1992 12 20	010	0.3-	0.7-	2000 02 01	703	0.6-	0.0	2000 03 11	699	0.1+	0.2+
1993 01 16	010	0.1-	1.9-	2000 02 11	704	1.7+	0.4+	2000 03 12	704	1.0-	1.6+
1993 01 16	010	(0.2-	2.2-)	2000 02 11	704	0.2+	0.7-	2000 03 12	704	0.1-	0.4+
1993 01 16	010	0.1+	1.6-	2000 02 11	704	0.8+	0.3-	2000 03 12	704	0.4-	0.4-
1998 12 14	704	0.5-	0.3-	2000 02 11	704	0.3+	0.1+	2000 03 12	704	0.5-	0.8-
1998 12 14	704	1.8-	0.2+	2000 02 11	704	0.6+	1.2-	2000 03 12	704	0.5-	0.4-
1998 12 14	704	0.4-	0.0	2000 03 05	704	0.0	0.1-	2000 04 03	704	0.2+	0.3-
1998 12 14	704	0.8-	0.4+	2000 03 05	704	0.4+	0.0	2000 04 03	704	0.1+	0.2+
1998 12 17	704	0.8+	0.0	2000 03 05	704	0.1+	0.4+	2000 04 03	704	0.4+	0.5+
1998 12 17	704	1.7+	0.1+	2000 03 05	704	0.1-	0.1-	2000 04 03	704	0.6+	0.5+
1998 12 17	704	0.6+	0.4+	2000 03 05	704	0.5+	0.4+	2000 04 03	704	0.6+	0.8+
1998 12 17	704	0.1+	0.4+	2000 03 11	704	0.3+	0.1-				

(14767)* 1137 T-1 = 1988 SE₄ = 1995 YG₁

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 26415)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	226.37598		(2000.0)	P	Q
<i>n</i>	0.30666789	ω	45.04063	+0.86848051	+0.49289765
<i>a</i>	2.1778294	Ω	285.36068	-0.46885089	+0.78209225
<i>e</i>	0.1710831	<i>i</i>	3.14205	-0.16099827	+0.38129204
<i>P</i>	3.21	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	0.0	1.5-	1995 12 27	566	0.3-	0.6-	2000 04 02	699	0.1-	0.1+
1971 03 25	675	1.0-	0.0	1995 12 30	411	0.7-	0.2-	2000 04 03	699	0.3-	0.0
1971 03 25	675	1.5-	0.9+	1995 12 30	411	0.5+	0.8-	2000 04 03	699	0.2-	0.2+
1971 03 26	675	0.6+	0.3-	1996 01 10	411	0.6+	0.2+	2000 04 03	699	0.1-	0.1-
1971 03 27	675	0.5+	0.2-	1996 01 10	411	0.8+	0.3+	2000 04 03	699	0.0	0.2-
1971 04 02	675	0.5+	0.7-	1998 12 14	704	0.4-	0.2+	2000 04 06	699	0.2+	0.2-
1988 09 16	095	(0.1-	3.4-)	1998 12 14	704	0.2-	0.6+	2000 04 06	699	0.2-	0.0
1988 09 16	095	(1.3-	3.5-)	1998 12 14	704	0.0	0.3+	2000 04 06	699	0.5+	0.0
1988 09 17	095	0.4-	1.0+	1998 12 14	704	0.3+	0.7+	2000 04 06	699	0.1-	0.1+
1993 01 22	809	1.8+	0.8-	1998 12 16	704	0.0	0.3-	2000 04 07	704	0.1-	0.3-
1993 01 22	809	0.4+	0.0	1998 12 16	704	0.3+	0.6+	2000 04 07	704	0.1-	0.5+
1993 01 22	809	0.9-	0.6+	1998 12 16	704	(2.6+	2.2+)	2000 04 07	704	0.4-	0.1-
1993 01 28	809	0.9+	1.4-	1998 12 16	704	(1.6+	2.6+)	2000 04 07	704	0.3-	0.3+
1993 01 28	809	(1.4-	2.7-)	1998 12 17	704	1.0+	0.3-	2000 04 07	704	0.1-	0.4+
1995 12 07	327	0.4+	0.3-	1998 12 17	704	0.5+	0.9-	2000 04 08	704	0.0	0.6-
1995 12 07	327	0.5+	0.5+	1998 12 17	704	0.5+	0.3-	2000 04 08	704	0.0	0.7+
1995 12 07	327	1.2+	0.1+	1998 12 17	704	0.4+	1.2-	2000 04 08	704	0.3+	0.1+
1995 12 21	411	0.9-	0.9+	1998 12 17	704	0.9-	0.7-	2000 04 08	704	0.5+	0.4+
1995 12 21	411	1.3-	1.0+	2000 03 04	703	0.4-	0.3+	2000 04 08	704	0.9+	0.5+
1995 12 22	411	0.5+	0.9+	2000 03 04	703	0.2+	0.3+	2000 04 10	704	0.3+	0.2-
1995 12 22	411	1.4-	0.6+	2000 03 04	703	0.1+	0.4-	2000 04 10	704	0.2+	0.1+
1995 12 26	411	0.9-	1.6+	2000 03 04	703	0.1+	0.6+	2000 04 10	704	0.0	0.2-
1995 12 26	411	0.3-	0.4+	2000 04 02	699	0.3-	0.1+	2000 04 10	704	0.1-	0.4-
1995 12 27	566	0.8-	0.8-	2000 04 02	699	0.3-	0.2+	2000 04 10	704	0.7+	0.5+
1995 12 27	566	0.8-	0.7-	2000 04 02	699	0.1-	0.3+				

(14768)* 1238 T-1 = 1992 SD₁₉ = 1999 AS₇

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Doppler (*MPC* 33998)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	211.41481		(2000.0)	P	Q
<i>n</i>	0.20293163	ω	341.71286	+0.78599913	+0.61815582
<i>a</i>	2.8679367	Ω	340.09653	-0.56370304	+0.71033789
<i>e</i>	0.0693097	<i>i</i>	1.58564	-0.25385871	+0.33660579
<i>P</i>	4.86	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	1.7+	2.1-	1999 01 17	621	0.1+	0.1+	2000 04 02	699	0.1-	0.9-
1971 03 25	675	1.2-	1.2-	1999 01 17	621	1.4+	0.2+	2000 04 02	699	0.9-	0.5+
1971 03 25	675	1.7-	0.7-	1999 01 17	621	0.7+	0.4+	2000 04 02	699	0.0	0.7+
1971 03 26	675	0.2-	2.2-	1999 01 20	621	0.0	0.1+	2000 04 02	699	1.0-	1.1-
1971 03 27	675	1.6-	2.2-	1999 01 20	621	0.5+	0.1+	2000 04 05	704	0.9+	0.4+
1971 04 02	675	1.4-	0.6-	1999 01 20	621	0.2+	0.3+	2000 04 05	704	0.7+	0.4+
1992 09 22	809	1.0+	0.5-	1999 01 20	621	0.0	0.0	2000 04 05	704	0.6+	0.3+
1992 09 22	809	0.3+	0.2-	2000 02 29	704	0.1+	0.0	2000 04 05	704	0.9+	0.3+
1992 09 22	809	0.6-	1.0-	2000 02 29	704	0.5+	0.1-	2000 04 05	704	0.3+	0.3+
1992 09 23	809	0.6-	0.2+	2000 02 29	704	0.0	0.1+	2000 04 05	704	0.1+	0.3-
1992 09 23	809	0.4-	0.8+	2000 03 03	704	0.1+	1.0+	2000 04 05	704	0.3+	0.6+
1992 09 23	809	0.1-	1.5+	2000 03 03	704	0.0	0.3+	2000 04 05	704	0.5+	0.1-
1993 08 16	691	0.3+	0.1-	2000 03 03	704	0.1-	0.6+	2000 04 06	704	0.3+	0.2+
1993 08 16	691	0.6+	0.2+	2000 03 03	704	0.1+	1.3+	2000 04 06	704	0.3+	0.8+
1993 08 16	691	1.1+	0.6-	2000 03 03	704	0.5+	0.5+	2000 04 06	704	0.2+	0.5+
1999 01 06	621	0.2-	0.1-	2000 03 08	704	1.0-	1.3+	2000 04 07	704	0.4+	0.2+
1999 01 06	621	0.5-	0.4-	2000 03 08	704	0.4-	0.9+	2000 04 07	704	0.4+	0.0
1999 01 06	621	0.8-	0.1-	2000 03 08	704	1.3-	1.3+	2000 04 07	704	0.8+	0.6-
1999 01 06	621	0.8-	0.3-	2000 03 11	704	0.2-	0.7+	2000 04 07	704	0.4+	0.1+
1999 01 06	621	0.7-	0.2-	2000 03 11	704	0.2-	0.2+	2000 04 07	704	0.4+	0.5-
1999 01 06	621	0.3+	0.2-	2000 03 11	704	0.4-	0.2+	2000 04 08	704	0.7+	1.4-
1999 01 06	621	0.3-	0.2-	2000 03 11	704	0.3-	0.5+	2000 04 08	704	0.1+	0.4-
1999 01 10	621	0.2-	0.0	2000 03 11	704	0.1+	1.3+	2000 04 08	704	0.1-	0.1+
1999 01 10	621	0.3-	0.5-	2000 03 14	608	0.2-	0.4-	2000 04 08	704	0.1+	0.1-
1999 01 10	621	0.6-	0.3-	2000 03 14	608	0.4+	0.1-	2000 04 08	704	0.8+	0.4+
1999 01 10	621	0.1-	0.6-	2000 03 14	608	0.5+	0.0				

(14769)* 2175 T-1 = 1994 PE₁₂

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 24403)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.94368		(2000.0)		P		Q		Williams
<i>n</i>	0.27217890	ω	303.10619	−0.50399680	−0.86369087				
<i>a</i>	2.3581228	Ω	177.14445	+0.82226583	−0.48158951				
<i>e</i>	0.0888891	<i>i</i>	5.79430	+0.26432200	−0.14869304				
<i>P</i>	3.62	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1971 03 24	675	0.5−	1.7−	1998 10 28	704	0.1+	0.8+	2000 03 13	704	0.1+	0.9+
1971 03 25	675	0.6−	0.7−	1998 10 28	704	0.0	0.1+	2000 03 13	704	0.3+	0.2+
1971 03 25	675	0.9−	0.4+	1998 10 28	704	0.2−	1.6+	2000 03 27	699	0.1−	0.5+
1971 03 26	675	0.6−	1.0−	1998 10 29	704	0.2−	0.5−	2000 03 27	699	0.2+	0.4+
1971 03 27	675	1.1−	0.2+	1998 10 29	704	1.4−	0.2+	2000 03 27	699	0.3+	0.9+
1971 04 02	675	(2.8+ 1.6−)		1998 10 29	704	0.3−	0.6+	2000 03 27	699	0.1−	1.0+
1971 04 16	675	1.4+	0.8−	1998 10 29	704	0.8−	0.3+	2000 04 04	704	0.3+	0.1+
1971 04 16	675	1.2+	1.9−	1998 10 29	704	0.2−	0.2−	2000 04 04	704	1.1+	0.2+
1971 05 13	675	0.1+	0.5−	1998 11 10	704	(2.6− 1.6−)		2000 04 04	704	1.4+	1.0+
1971 05 14	675	0.1−	0.4−	1998 11 10	704	0.2−	0.1+	2000 04 04	704	1.1+	1.3+
1971 05 16	675	0.7−	0.2+	1998 11 10	704	0.2−	0.9+	2000 04 04	704	1.5+	1.2+
1994 08 10	809	(0.2− 2.6+)		1998 11 10	704	0.1+	0.3−	2000 04 05	704	0.2+	0.7+
1994 08 10	809	(0.6− 2.3+)		1998 11 10	704	1.9−	1.2−	2000 04 05	704	0.4+	0.6+
1994 08 10	809	(1.5− 2.6+)		1998 11 11	704	0.8+	1.7+	2000 04 05	704	1.0+	0.1−
1994 08 11	809	(0.6− 3.2+)		1998 11 11	704	0.2+	0.7−	2000 04 05	704	0.0	0.8+
1994 08 11	809	(0.4− 3.6+)		1998 11 11	704	0.4−	0.2−	2000 04 05	704	0.5+	0.1−
1994 08 11	809	(0.2+ 2.6+)		1998 11 11	704	1.3−	1.3−	2000 04 06	704	0.2−	0.8+
1994 09 03	809	0.5−	1.7+	1998 11 11	704	(2.1− 0.9−)		2000 04 06	704	0.1+	0.2+
1994 09 03	809	0.7−	2.0+	1998 11 25	699	0.6−	0.4−	2000 04 06	704	0.1−	1.2+
1994 09 03	809	0.9−	1.8+	1998 11 25	699	0.5+	0.4−	2000 04 06	704	0.0	0.4+
1994 09 04	809	(2.4− 2.7+)		1998 11 25	699	1.6+	1.7+	2000 04 06	704	0.0	0.3+
1994 09 04	809	(1.7− 3.8+)		1998 12 14	725	0.8+	1.0+	2000 04 06	704	0.6+	0.2+
1994 09 04	809	(3.6− 3.2+)		1998 12 14	725	0.4−	0.3+	2000 04 06	704	0.2+	0.8+
1998 09 21	809	(3.5+ 5.7+)		2000 03 01	703	1.3+	0.3−	2000 04 06	704	0.1+	0.5+
1998 09 21	809	(2.5+ 3.6+)		2000 03 01	703	0.9+	0.3+	2000 04 06	704	0.5−	0.1−
1998 09 21	809	(1.9+ 4.3+)		2000 03 01	703	0.2+	0.3+	2000 04 07	699	0.4+	0.7+
1998 09 23	809	(6.4− 3.6+)		2000 03 01	703	0.3+	0.2+	2000 04 07	699	0.1+	0.9+
1998 09 23	809	(6.7− 3.2+)		2000 03 08	704	0.4−	1.1+	2000 04 07	704	0.1+	0.5+
1998 09 23	809	(7.8− 3.6+)		2000 03 08	704	0.3+	1.0+	2000 04 07	699	0.1−	0.8+
1998 09 26	704	0.2+	1.0+	2000 03 08	704	0.5+	1.1+	2000 04 07	704	0.4+	0.2+
1998 09 26	704	1.0+	1.0−	2000 03 08	704	1.0+	1.1+	2000 04 07	699	0.1−	0.8+
1998 09 26	704	0.6+	0.8+	2000 03 08	704	(0.9+ 2.5+)		2000 04 07	704	0.1+	0.2+
1998 09 26	704	0.0	0.2−	2000 03 09	691	0.4−	0.3−	2000 04 07	704	0.1+	0.4+
1998 09 26	704	0.6+	1.3+	2000 03 09	691	0.1−	0.2−	2000 04 07	704	0.5+	0.5+
1998 09 27	704	0.8−	0.6+	2000 03 09	691	0.4−	0.2+	2000 04 08	704	0.5+	0.0
1998 09 27	704	0.7+	0.0	2000 03 10	704	0.4+	0.7−	2000 04 08	704	0.8+	0.3+
1998 09 27	704	0.1−	1.3+	2000 03 10	704	0.2+	0.1−	2000 04 08	704	0.1+	0.1−
1998 09 27	704	(0.4+ 2.2+)		2000 03 10	704	0.3+	0.0	2000 04 08	704	0.4+	0.0
1998 09 27	704	1.5+	0.6+	2000 03 10	704	1.1+	1.7−	2000 04 08	704	0.1+	0.2−
1998 10 11	699	1.1−	0.4+	2000 03 11	704	0.7−	0.4+	2000 04 10	704	0.2+	0.2+
1998 10 11	699	0.1−	0.5+	2000 03 11	704	0.9−	0.8+	2000 04 10	704	0.3−	0.3+
1998 10 11	699	0.3+	0.9+	2000 03 11	704	0.6−	0.0	2000 04 10	704	0.1+	0.3−
1998 10 14	704	0.6−	0.4−	2000 03 11	704	1.4−	0.6−	2000 04 10	704	0.2−	0.2−
1998 10 14	704	1.3+	1.0+	2000 03 12	704	1.7−	0.5−	2000 04 10	704	0.1+	0.0
1998 10 14	704	0.7+	1.5+	2000 03 12	704	1.1−	0.2−	2000 04 10	704	0.4−	0.7+
1998 10 14	704	0.8−	0.8+	2000 03 12	704	0.8−	0.6−	2000 04 10	704	0.6+	0.3+
1998 10 15	704	1.2−	0.3−	2000 03 12	704	1.3−	0.4−	2000 04 10	704	0.2−	0.1+
1998 10 15	704	0.5−	0.1+	2000 03 12	704	1.8−	0.4−	2000 04 10	704	0.4+	0.5+
1998 10 15	704	1.7−	0.6+	2000 03 13	704	0.1−	0.2−	2000 04 10	704	0.6+	0.3+
1998 10 15	704	0.2+	1.0−	2000 03 13	704	0.1−	0.0				
1998 10 28	704	1.2+	0.2−	2000 03 13	704	0.4−	0.6+				

(14770)* 2198 T-1 = 1994 CC₁₁

Discovered 1971 Mar. 25 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 23867)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	46.53935		(2000.0)		P		Q		Williams
<i>n</i>	0.17065313	ω	28.14428	−0.37129720	−0.92719044				
<i>a</i>	3.2190413	Ω	83.68735	+0.84226590	−0.35879348				
<i>e</i>	0.1457758	<i>i</i>	2.85813	+0.39080244	−0.10763421				
<i>P</i>	5.78	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1971 03 24	675	(3.3− 2.0−)		1998 12 15	704	0.9+	0.1+	2000 03 28	704	1.0+	0.3+
1971 03 25	675	1.2−	0.9−	1998 12 15	704	0.4+	0.8+	2000 03 28	704	0.1−	0.2+
1971 03 25	675	1.3+	1.6−	1998 12 15	704	0.0	1.7+	2000 03 28	704	(2.1+ 1.4+)	
1971 03 26	675	1.2−	0.3−	1998 12 15	704	1.7+	1.5+	2000 03 28	704	0.4+	0.0
1971 03 27	675	1.9−	1.1−	1998 12 15	704	1.4−	1.1−	2000 04 05	704	0.1+	0.4+
1971 04 02	675	0.7+	1.4−	2000 03 02	703	0.5−	0.6+	2000 04 05	704	1.1+	0.1−
1994 02 07	809	0.2−	0.5−	2000 03 02	703	0.6−	0.3+	2000 04 05	704	0.6+	0.4−
1994 02 07	809	1.0−	0.1+	2000 03 02	703	0.8−	0.8+	2000 04 07	049	0.9+	0.6−
1994 02 07	809	1.8−	1.1−	2000 03 02	703	0.5+	0.1+	2000 04 07	049	0.6+	1.0+
1994 02 09	809	(2.6+ 0.1−)		2000 03 06	012	0.6−	0.5+	2000 04 08	049	0.2+	1.6−
1994 02 09	809	0.9+	0.1+	2000 03 06	012	1.4−	1.5+	2000 04 08	704	0.2−	0.1−
1994 02 09	809	1.7+	0.4−	2000 03 11	699	0.9−	0.1−	2000 04 08	704	0.1+	1.4+
1994 02 12	809	0.3+	0.1+	2000 03 11	699	0.7−	0.6+	2000 04 08	704	1.2+	0.7+
1994 02 12	809	0.0	0.4−	2000 03 11	699	0.7−	0.3+	2000 04 08	704	0.2−	0.6+
1994 02 12	809	0.4−	0.1−	2000 03 11	699	0.8−	0.4+	2000 04 08	704	0.9+	0.0
1994 03 05	691	0.4−	0.5−	2000 03 12	704	0.6+	0.3+	2000 04 09	049	0.9+	0.2−
1994 03 05	691	0.4−	0.5−	2000 03 12	704	0.1−	0.3+	2000 04 09	049	0.8+	0.2−
1994 03 05	691	0.1−	0.5−	2000 03 12	704	0.2−	0.4+	2000 04 09	049	0.8+	0.5−
1998 11 27	426	0.4−	0.1−	2000 03 12	704	0.1+	0.1−	2000 04 10	704	0.9+	0.0
1998 11 27	426	0.1+	0.1−	2000 03 12	704	0.4−	0.3+	2000 04 10	704	0.2+	0.8+
1998 11 27	426	0.9−	0.1+	2000 03 26	699	0.1−	0.7+	2000 04 10	704	0.8+	0.2−
1998 11 29	426	0.0	0.3+	2000 03 26	699	0.5−	0.0	2000 04 10	704	1.0+	0.1+
1998 11 29	426	0.6−	1.0−	2000 03 26	699	0.2−	0.4+				
1998 11 29	426	0.2−	0.8−	2000 03 26	699	0.3−	0.1+				

(14771)* 4105 T-1 = 1973 VG = 1978 PL₁ = 1999 CH₁₃₂

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 34269)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	292.39737		(2000.0)		P		Q		Williams
<i>n</i>	0.17080107	ω	134.64991	+0.21432894	+0.97668685				
<i>a</i>	3.2171822	Ω	147.72055	−0.90243998	+0.20273699				
<i>e</i>	0.1604062	<i>i</i>	1.29600	−0.37371806	+0.07057270				
<i>P</i>	5.77	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1971 03 24	675	0.7−	0.8−	1999 02 10	691	0.5−	0.0	2000 04 06	704	0.5−	0.1+
1971 03 26	675	0.0	2.3−	1999 02 10	691	0.2+	0.3+	2000 04 06	704	0.0	0.1−
1971 03 26	675	(0.4−	2.6−)	1999 02 16	691	0.1+	0.1−	2000 04 06	704	0.0	0.3+
1971 03 27	675	2.2+	1.6−	1999 02 16	691	0.5+	0.0	2000 04 06	704	0.4−	0.7−
1971 04 02	675	0.5+	0.9+	1999 02 16	691	0.2+	0.2+	2000 04 06	704	0.2−	0.4−
1971 04 02	675	1.6−	0.3+	2000 03 17	704	0.7+	1.0−	2000 04 07	704	0.4+	0.3+
1971 04 16	675	0.6+	0.5−	2000 03 17	704	0.3+	0.2+	2000 04 07	704	0.3−	0.1+
1971 04 16	675	0.8−	0.5+	2000 03 17	704	0.2+	0.9+	2000 04 07	699	0.7−	0.2−
1971 05 13	675	0.5−	0.3+	2000 04 04	699	0.6+	0.3−	2000 04 07	704	0.1+	0.2+
1971 05 14	675	0.3−	0.5+	2000 04 04	699	0.5+	0.1+	2000 04 07	699	0.2−	0.0
1971 05 16	675	0.7−	0.1−	2000 04 04	699	0.4+	0.1+	2000 04 07	684	0.4−	0.5+
1973 11 02	033	0.1−	0.8+	2000 04 04	699	0.3+	0.0	2000 04 07	684	0.3−	0.4+
1978 08 08	095	0.1−	0.3−	2000 04 05	704	0.4+	0.3+	2000 04 07	699	0.3−	0.1−
1992 12 24	691	0.0	0.6+	2000 04 05	704	0.8+	0.3−	2000 04 07	704	0.3−	0.2−
1992 12 24	691	0.0	0.2+	2000 04 05	704	0.4−	0.2−	2000 04 07	699	0.1−	0.3+

1992 12 24	691	0.1+	0.2+	2000 04 05	704	0.8+	0.2+	2000 04 07	704	0.5-	0.2-
1999 02 08	691	0.5+	0.0	2000 04 05	704	0.7-	0.4-	2000 04 10	608	0.4+	0.6+
1999 02 08	691	0.3+	0.0	2000 04 05	704	0.0	0.4-	2000 04 10	608	0.7+	1.1+
1999 02 08	691	0.8-	0.5-	2000 04 06	684	0.2-	0.7+	2000 04 10	608	0.7+	0.6+
1999 02 10	691	0.7-	0.0	2000 04 06	684	0.0	0.4+				

(14772)* 4195 T-1 = 1991 LD₂

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Kobayashi (*MPC* 19879), S. Nakano (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20377215	ω	134.54935	-0.63695209	+0.76891871		
<i>a</i>	2.8600447	Ω	95.80427	-0.72210799	-0.56999184		
<i>e</i>	0.0184650	<i>i</i>	3.18537	-0.26991126	-0.28960891		
<i>P</i>	4.84	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	(0.4+	3.0-)	1998 12 15	704	0.8+	1.4+	2000 03 12	704	0.4+	0.8+
1971 03 26	675	0.7+	0.6+	1998 12 15	704	0.6-	0.6+	2000 03 12	704	0.1+	0.3+
1971 03 26	675	0.7+	0.8-	1998 12 15	704	0.7+	0.1-	2000 03 12	704	0.2+	0.5+
1971 03 27	675	(1.2-	2.6-)	1998 12 15	704	0.2-	1.0-	2000 03 14	703	0.6+	0.4+
1971 04 02	675	1.3-	1.1-	1998 12 16	704	0.6+	0.1-	2000 03 14	703	0.1+	0.7+
1971 04 16	675	1.0+	1.8-	1998 12 16	704	0.2+	1.6-	2000 03 14	703	0.0	0.4+
1971 04 16	675	1.1-	0.7-	1998 12 16	704	0.1+	0.2+	2000 03 14	703	0.1-	0.4+
1971 05 13	675	0.7-	1.7+	1998 12 17	704	0.4+	0.2+	2000 03 29	704	0.3+	0.7+
1971 05 13	675	0.2+	0.7-	1998 12 17	704	0.7+	1.0-	2000 03 29	704	0.4+	0.3-
1971 05 14	675	1.0-	0.3+	1998 12 17	704	0.9-	1.2-	2000 03 29	704	0.7+	0.3-
1971 05 14	675	0.3+	1.0-	1998 12 17	704	0.9-	1.0+	2000 03 29	704	0.3+	0.4-
1971 05 16	675	0.0	1.8-	1998 12 17	704	0.0	0.3+	2000 04 05	704	0.1+	0.6+
1971 05 16	675	0.9+	1.9+	1998 12 22	704	0.1-	0.5-	2000 04 05	704	0.1+	0.1+
1991 05 18	809	0.8+	1.3-	1998 12 22	704	0.2-	0.6-	2000 04 05	704	0.5+	0.1+
1991 05 18	809	0.5-	1.6-	1998 12 22	704	0.4-	0.5+	2000 04 07	699	0.1+	0.1+
1991 05 18	809	(0.0	2.2-)	1998 12 22	704	0.1+	1.5-	2000 04 07	699	0.3+	0.0
1991 06 06	809	(0.3-	2.5+)	2000 02 27	703	0.8+	0.4+	2000 04 07	699	0.6+	0.2+
1991 06 06	809	(0.1-	2.4+)	2000 02 27	703	0.2+	1.0+	2000 04 07	699	1.6-	1.9-
1991 06 06	809	1.3-	1.6+	2000 02 27	703	0.0	0.4+	2000 04 08	704	0.8+	0.2+
1991 06 08	809	0.3+	0.8-	2000 02 27	703	0.6-	0.2+	2000 04 08	704	0.8+	0.0
1991 06 08	809	0.7-	0.5-	2000 03 05	608	0.1-	1.8-	2000 04 08	704	0.3+	0.2+
1991 06 08	809	0.1-	0.8-	2000 03 05	608	(0.4-	2.0-)	2000 04 08	704	0.5+	0.4+
1995 02 03	691	0.6-	0.0	2000 03 05	608	(0.4-	2.1-)	2000 04 08	704	0.5+	1.0+
1995 02 03	691	0.4-	0.0	2000 03 08	704	0.5-	0.6-	2000 04 10	704	0.1-	0.3+
1995 02 03	691	0.4-	0.0	2000 03 08	704	0.1+	1.1+	2000 04 10	704	0.5+	0.2-
1995 03 23	033	1.6-	0.1+	2000 03 08	704	(0.2-	2.1+)	2000 04 10	704	0.1-	0.7-
1995 03 23	033	1.7-	0.4+	2000 03 08	704	0.1-	0.4-	2000 04 10	704	0.2-	0.2+
1995 03 27	675	1.2-	0.4-	2000 03 08	704	(0.1-	2.4+)	2000 04 10	704	0.3+	0.3-
1998 12 15	704	0.2+	0.0	2000 03 12	704	0.4+	0.5+				

(14773)* 4264 T-1 = 1997 YD₁₃

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 31132)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20487570	ω	252.92263	+0.21180872	+0.97467255		
<i>a</i>	2.8497653	Ω	29.59964	-0.83231746	+0.21838601		
<i>e</i>	0.1812999	<i>i</i>	8.35441	-0.51223501	+0.04817643		
<i>P</i>	4.81	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 03 24	675	(1.7+	3.0-)	1999 02 10	704	0.5+	0.9-	2000 04 05	704	0.2+	0.1+
1971 03 26	675	0.3-	0.8-	1999 02 10	704	1.2-	1.5-	2000 04 05	704	0.1-	0.0
1971 03 26	675	0.3+	1.4-	1999 02 10	704	(3.5-	1.8-)	2000 04 06	704	0.5+	0.3+
1971 03 27	675	(1.6-	3.0-)	2000 03 14	703	0.9-	0.5+	2000 04 06	704	0.1+	0.1+
1971 04 02	675	0.5-	0.4+	2000 03 14	703	0.4+	0.0	2000 04 06	704	0.2+	0.3+

1971 04 16	675	(1.3+	3.5-)	2000 03 14	703	0.4+	0.4-	2000 04 06	704	0.5+	0.4+
1971 04 16	675	0.6+	1.2-	2000 03 14	703	1.2+	0.5-	2000 04 06	704	0.3-	1.0-
1971 05 13	675	0.7-	0.6+	2000 03 30	120	0.5+	0.0	2000 04 07	704	0.4-	0.3+
1971 05 14	675	0.4+	0.2+	2000 03 30	120	0.1+	0.3-	2000 04 07	704	0.1+	0.5+
1971 05 16	675	0.9-	1.0+	2000 04 02	699	0.2+	0.2+	2000 04 07	704	0.3-	0.3-
1997 11 29	691	0.6+	0.4-	2000 04 02	699	0.1+	0.0	2000 04 07	704	0.9-	0.3+
1997 11 29	691	0.8+	0.4+	2000 04 02	699	0.1+	0.2+	2000 04 07	704	0.1+	0.2+
1997 11 29	691	0.5+	0.7+	2000 04 02	699	0.3+	0.1+	2000 04 08	120	1.0-	0.5+
1997 12 28	691	1.5-	0.9+	2000 04 03	699	0.4+	0.2+	2000 04 08	120	0.5-	0.1-
1997 12 28	691	1.2-	1.0+	2000 04 03	699	0.0	0.2+	2000 04 08	120	0.7+	1.0+
1997 12 28	691	1.3-	0.5+	2000 04 03	699	0.4+	0.3+	2000 04 10	704	0.2+	0.1-
1998 01 01	691	0.1+	0.3+	2000 04 03	699	0.0	0.3+	2000 04 10	704	0.1-	0.4+
1998 01 01	691	0.2+	0.5+	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.2+	0.1+
1998 01 01	691	0.4-	0.2+	2000 04 05	704	0.3+	0.1+	2000 04 10	704	0.0	0.2+
1999 02 10	704	0.0	0.2-	2000 04 05	704	0.0	0.1+	2000 04 10	704	0.2-	0.1+

(14774)* 4845 T-1 = 1999 UK₃

Discovered 1971 May 13 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. M. E. Sansaturio (*MPC* 39500)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19413854	ω	355.45467	-0.04987180	-0.99710519		
<i>a</i>	2.9538938	Ω	97.39640	+0.91815511	-0.06838737		
<i>e</i>	0.1254347	<i>i</i>	3.31787	+0.39306996	+0.03323272		
<i>P</i>	5.08	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1971 04 16	675	0.1+	0.2-	1999 10 19	704	0.3-	0.3-	1999 12 02	699	0.3-	0.6+
1971 04 16	675	0.3-	0.9-	1999 10 19	704	0.4-	0.1+	1999 12 02	699	0.6-	0.4+
1971 05 13	675	0.3-	0.7-	1999 10 19	704	0.5-	0.0	1999 12 05	704	0.8+	0.8-
1971 05 14	675	0.8-	1.3-	1999 10 22	757	0.3-	0.1-	1999 12 05	704	1.0+	0.6+
1971 05 16	675	(0.3-	2.8-)	1999 10 22	757	0.1-	0.2-	1999 12 05	704	(2.8-	0.1+)
1992 05 03	809	(0.3-	2.4+)	1999 10 23	757	0.2+	1.5-	1999 12 07	704	1.2+	0.3-
1992 05 03	809	0.0	1.4+	1999 10 23	757	0.5-	0.8+	1999 12 07	704	0.9+	0.5-
1992 05 03	809	0.4+	0.0	1999 11 05	704	0.4-	0.2+	1999 12 07	704	(0.5+	2.1+)
1998 08 17	704	0.0	0.2-	1999 11 05	704	0.1+	0.2-	1999 12 07	704	0.0	0.8+
1998 08 17	704	0.3-	0.9-	1999 11 05	704	0.0	0.1-	1999 12 07	704	1.5-	0.8+
1998 08 17	704	0.7-	1.6-	1999 11 05	704	0.1-	0.2+	1999 12 31	106	0.1+	0.2-
1998 08 17	704	(3.1+	2.3-)	1999 11 05	704	0.2-	0.3+	1999 12 31	106	0.3-	0.1+
1998 08 17	704	1.1+	1.4+	1999 11 12	120	0.5+	0.8-	1999 12 31	106	0.3-	0.4+
1999 10 07	704	0.7+	0.2+	1999 11 12	120	0.1+	0.4-	2000 01 05	704	0.2-	0.4+
1999 10 07	704	0.5+	0.5-	1999 11 13	120	0.2+	0.6-	2000 01 05	704	0.2-	0.2+
1999 10 07	704	0.3+	0.3+	1999 11 13	120	0.5+	0.2-	2000 01 05	704	0.3-	0.2-
1999 10 07	704	0.1+	0.1+	1999 11 14	699	0.1-	1.0+	2000 01 05	704	0.3-	0.0
1999 10 07	704	0.2-	0.3+	1999 11 14	699	0.5-	1.4+	2000 01 05	704	0.0	0.1-
1999 10 09	704	0.3+	0.3-	1999 11 14	699	0.8-	0.7+	2000 01 07	704	0.2-	0.4-
1999 10 09	704	0.0	0.0	1999 11 15	704	0.3+	0.2-	2000 01 07	704	0.4-	0.2-
1999 10 09	704	0.4-	0.0	1999 11 15	704	0.7+	0.3+	2000 01 07	704	0.1-	0.6-
1999 10 09	704	0.2-	0.2-	1999 11 15	704	0.0	0.0	2000 01 07	704	0.4-	0.3-
1999 10 09	704	0.3-	0.1+	1999 11 15	704	0.0	0.3+	2000 01 07	704	0.1+	0.6-
1999 10 15	704	0.4-	0.5+	1999 11 15	704	0.1-	0.0	2000 01 30	703	0.8-	0.0
1999 10 15	704	0.9+	0.1+	1999 11 17	704	0.7+	0.4-	2000 01 30	703	0.2-	0.1-
1999 10 15	704	0.1-	0.0	1999 11 17	704	0.4+	0.4+	2000 01 30	703	0.3-	1.3-
1999 10 15	704	0.2-	0.0	1999 11 17	704	1.0+	0.7-	2000 01 30	703	0.1-	0.2+
1999 10 15	704	0.5-	0.3+	1999 11 17	704	0.0	1.3-	2000 02 04	704	1.6+	0.4+
1999 10 19	704	1.7+	1.4-	1999 11 17	704	0.2+	0.1-	2000 02 04	704	0.5-	0.4+
1999 10 19	704	0.8-	1.0-	1999 12 02	699	0.6-	0.8+	2000 02 04	704	0.6+	1.0+

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	286.66854		(2000.0)	P	Q
<i>n</i>	0.20978628	ω	95.93913	+0.17385399	+0.98473540
<i>a</i>	2.8051192	Ω	184.10166	-0.94369525	+0.16415111
<i>e</i>	0.1768099	<i>i</i>	6.76442	-0.28144994	+0.05788438
<i>P</i>	4.70	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1973 09 19	675	0.6-	1.3-	1981 04 08	413	0.3+	0.1+	2000 03 30	691	0.2+	0.5-
1973 09 19	675	0.7-	0.7-	1981 04 11	413	1.4-	0.8+	2000 03 30	691	0.0	0.6-
1973 09 20	675	0.3-	0.6-	1981 04 30	413	(0.4-	2.5-)	2000 03 30	691	0.1+	0.6-
1973 09 24	675	0.5-	0.8-	1981 05 02	413	2.0+	2.0-	2000 04 01	691	0.4-	0.4-
1973 09 24	675	0.0	1.0+	1981 05 03	413	(1.2+	2.3-)	2000 04 01	691	0.3-	0.4-
1973 09 25	675	0.5-	1.4-	1996 07 06	292	0.4+	0.3+	2000 04 01	691	0.4-	0.4-
1973 09 25	675	1.3-	0.3+	1996 07 06	292	0.0	0.3-	2000 04 02	699	0.6-	0.1-
1973 09 29	675	0.8+	0.7-	1996 07 07	292	0.7-	0.8-	2000 04 02	699	0.4-	0.2-
1973 09 29	675	1.3+	0.2-	1996 07 07	292	0.3+	0.0	2000 04 02	699	0.6-	0.3+
1973 09 30	675	0.5+	1.0+	2000 02 29	120	1.3+	1.0-	2000 04 02	699	1.9-	0.5+
1973 09 30	675	(1.7+	3.1+)	2000 02 29	120	0.8-	0.0	2000 04 05	704	0.2+	0.2+
1973 10 04	675	1.0+	1.9-	2000 03 04	703	0.8-	0.3-	2000 04 05	704	0.3+	0.4+
1973 10 04	675	0.6+	1.6-	2000 03 04	703	0.8-	0.0	2000 04 05	704	0.4+	0.4+
1973 10 05	675	1.6+	1.2+	2000 03 04	703	0.2-	0.1+	2000 04 05	704	0.3+	0.3+
1973 10 05	675	(1.0-	3.1+)	2000 03 04	703	0.4-	0.6-	2000 04 05	704	0.0	0.3+
1981 02 09	413	1.4+	0.6-	2000 03 09	704	0.6+	1.0+	2000 04 06	704	0.0	0.1+
1981 02 13	413	0.1+	0.5-	2000 03 09	704	0.3-	0.3-	2000 04 06	704	0.1-	0.1+
1981 03 02	413	1.7-	0.7+	2000 03 09	704	0.1-	0.2-	2000 04 06	704	0.6+	0.3+
1981 03 02	413	0.8-	0.8-	2000 03 09	704	0.5-	0.4+	2000 04 06	704	1.0+	0.6+
1981 03 03	413	1.6-	0.4-	2000 03 09	704	0.5-	0.5+	2000 04 06	704	1.1+	1.1-
1981 03 07	413	0.6-	0.0	2000 03 10	704	0.2-	0.1+	2000 04 10	704	0.3+	0.5-
1981 03 07	413	1.6+	1.3-	2000 03 10	704	1.3-	0.0	2000 04 10	704	0.2-	0.6-
1981 03 11	413	1.6+	0.7-	2000 03 10	704	0.2-	0.5+	2000 04 10	704	0.6+	0.0
1981 03 16	413	0.8-	0.3-	2000 03 27	699	0.0	0.1+	2000 04 10	704	0.8+	0.0
1981 03 29	413	0.5-	0.9-	2000 03 27	699	1.0+	0.4+	2000 04 10	704	0.4+	0.5+
1981 03 29	413	(3.8+	3.2-)	2000 03 27	699	1.1+	0.0				
1981 04 08	413	1.2-	0.4-	2000 03 27	699	0.5+	0.4+				

(14776)* 1282 T-2 = 1992 RC₂

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. B. G. Marsden (*MPC* 21125)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	172.53921		(2000.0)	P	Q
<i>n</i>	0.20534085	ω	124.24618	+0.96222686	-0.27157927
<i>a</i>	2.8454600	Ω	251.51851	+0.24270086	+0.88744244
<i>e</i>	0.0761130	<i>i</i>	1.15293	+0.12335220	+0.37241190
<i>P</i>	4.80	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1973 09 19	675	1.0+	0.4-	1998 12 17	704	0.9-	0.2-	2000 04 05	704	(2.8-	1.1-)
1973 09 19	675	0.3+	1.5+	1998 12 17	704	0.7+	0.6-	2000 04 05	704	0.2+	0.4+
1973 09 19	675	0.6-	0.0	1998 12 17	704	0.1+	0.5+	2000 04 05	704	0.1+	0.3+
1973 09 19	675	0.7+	1.5+	1998 12 22	704	0.8+	0.4+	2000 04 06	699	0.1+	0.3+
1973 09 20	675	1.6-	1.4-	1998 12 22	704	0.3+	0.1+	2000 04 06	704	0.2+	0.1-
1973 09 24	675	1.8-	0.7-	1998 12 22	704	0.2+	1.1-	2000 04 06	699	0.4-	0.0
1973 09 24	675	0.7-	0.4+	1998 12 22	704	0.7-	0.3-	2000 04 06	704	0.1-	0.2-
1973 09 25	675	0.5-	2.0-	1998 12 22	704	0.8+	0.5-	2000 04 06	699	0.3-	0.1-
1973 09 25	675	1.4-	0.1+	1998 12 23	704	1.3+	0.0	2000 04 06	704	0.0	0.6-
1973 09 29	675	0.2+	0.9+	1998 12 23	704	1.3+	0.6-	2000 04 06	704	0.0	0.7-
1973 09 29	675	0.4+	0.4+	1998 12 23	704	1.1+	1.3-	2000 04 06	699	0.0	0.1-
1973 09 30	675	0.6+	1.9+	1999 01 17	120	0.1-	0.0	2000 04 06	704	0.3+	1.3-
1973 09 30	675	0.8+	0.5+	1999 01 17	120	0.2+	0.7-	2000 04 07	704	0.2+	0.1-
1973 10 04	675	1.1+	1.0-	1999 01 17	120	0.3-	0.7-	2000 04 07	704	0.3-	0.3-
1973 10 04	675	1.1+	1.0-	1999 01 18	704	0.4-	0.5-	2000 04 07	704	0.1-	0.2+
1973 10 05	675	1.0+	0.9-	1999 01 18	704	1.3-	1.3+	2000 04 07	704	0.3-	0.6-
1973 10 05	675	0.4+	0.3-	1999 01 18	704	0.5-	1.2+	2000 04 07	704	0.3+	0.3-

1992 09 02	809	0.3-	0.3+	1999 01 18	704	1.1+	0.6+	2000 04 08	704	0.5-	0.4-
1992 09 02	809	0.9-	0.0	1999 01 20	704	0.2+	0.1-	2000 04 08	704	0.2-	0.5+
1992 09 02	809	1.6-	0.1+	1999 01 20	704	0.8+	0.3+	2000 04 08	704	0.3+	0.2+
1992 09 03	809	1.4-	0.6-	1999 01 20	704	0.3-	1.2-	2000 04 08	704	0.7+	0.3+
1992 09 22	809	(2.5+	0.2-)	1999 01 20	704	0.3-	0.7-	2000 04 08	704	0.4+	0.3-
1992 09 22	809	1.4+	1.0-	2000 03 04	703	0.0	0.7-	2000 04 08	704	0.0	0.0
1992 09 22	809	1.3+	1.2-	2000 03 04	703	0.7-	0.2+	2000 04 08	704	0.7+	0.3+
1992 09 23	809	1.6+	1.0-	2000 03 04	703	0.4-	0.4-	2000 04 08	704	0.4+	0.1-
1992 09 23	809	1.4+	1.0-	2000 03 04	703	0.4-	0.5-	2000 04 08	704	0.4+	0.2-
1992 09 23	809	0.7+	0.8-	2000 03 06	608	0.5-	1.2-	2000 04 08	704	0.1-	0.8+
1998 12 10	691	0.4-	0.1+	2000 03 06	608	0.2-	0.9-	2000 04 10	704	0.2-	0.6+
1998 12 10	691	0.1+	0.1-	2000 03 06	608	0.2-	1.1-	2000 04 10	704	0.2-	0.3+
1998 12 10	691	0.5-	1.0+	2000 04 02	699	1.1-	0.4+	2000 04 10	704	0.1+	0.2+
1998 12 16	699	0.7-	0.5-	2000 04 02	699	0.3-	0.4+	2000 04 10	704	0.8+	0.9+
1998 12 16	699	1.4-	1.0+	2000 04 02	699	0.2-	0.2+	2000 04 10	704	0.1-	0.9+
1998 12 16	699	0.6-	0.5+	2000 04 02	699	0.3-	0.3+	2000 04 10	608	0.1-	0.9-
1998 12 17	704	0.9-	0.1-	2000 04 05	704	0.0	0.2-	2000 04 10	608	0.2-	1.0-
1998 12 17	704	0.1+	0.1+	2000 04 05	704	0.0	0.1-	2000 04 10	608	0.1+	0.5-

(14777)* 2078 T-2 = 1987 QB₇ = 1993 FT₆₀

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 23681)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	170.21453		(2000.0)	P	Q
<i>n</i>	0.27869152	ω	177.76081	+0.99767590	-0.06761741
<i>a</i>	2.3212409	Ω	186.13534	+0.06122928	+0.94380317
<i>e</i>	0.1662305	<i>i</i>	4.51166	+0.02989599	+0.32351733
<i>P</i>	3.54	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1973 09 19	675	0.8+	0.4+	1993 03 24	809	1.0+	0.4-	2000 03 11	704	0.0	0.3-
1973 09 19	675	0.8+	0.1-	1998 10 20	699	0.2-	0.7+	2000 03 26	699	0.6-	0.1+
1973 09 20	675	1.4-	0.0	1998 10 20	699	1.1+	0.3+	2000 03 26	699	0.2+	0.9-
1973 09 24	675	1.5-	0.2+	1998 10 20	699	0.9+	0.3-	2000 03 26	699	0.4-	0.2-
1973 09 24	675	0.5-	1.4+	1998 11 23	699	0.1-	0.7-	2000 03 26	699	0.8-	0.1-
1973 09 25	675	1.8+	2.0-	1998 11 23	699	0.4-	0.0	2000 04 04	704	0.3-	0.1-
1973 09 25	675	0.7+	1.4-	1998 11 23	699	0.7-	0.1-	2000 04 04	704	0.1+	0.4-
1973 09 29	675	0.2-	1.0+	1998 11 24	704	0.4-	0.1+	2000 04 04	704	0.9+	1.0+
1973 09 29	675	0.6+	0.4+	1998 11 24	704	0.0	0.3-	2000 04 04	704	0.1-	0.1+
1973 09 30	675	0.4+	1.2-	1998 11 24	704	0.2-	0.4+	2000 04 04	704	0.6-	0.5+
1973 09 30	675	0.4+	0.3+	1998 11 24	704	0.6+	0.6-	2000 04 05	704	0.3+	0.5-
1973 10 04	675	1.1+	1.1-	1998 11 24	704	1.0+	0.6+	2000 04 05	704	0.3-	0.7-
1973 10 04	675	1.2-	2.2+	1998 12 16	699	0.5+	1.1-	2000 04 05	704	0.3-	0.2+
1973 10 04	675	0.7+	0.0	1998 12 16	699	1.0-	0.6+	2000 04 05	704	0.1+	0.1-
1973 10 04	675	(1.4-	2.8+)	1998 12 16	699	0.7-	0.7-	2000 04 05	704	0.6-	1.4+
1973 10 05	675	1.6+	0.7-	2000 03 10	704	0.2+	0.1+	2000 04 07	699	0.3+	1.5+
1973 10 05	675	2.1-	0.8+	2000 03 10	704	0.3+	0.3-	2000 04 07	699	0.6+	0.4-
1973 10 05	675	0.3-	0.2-	2000 03 10	704	0.1+	0.1-	2000 04 07	699	0.3-	0.1+
1973 10 05	675	2.3-	1.3+	2000 03 10	704	0.0	0.5-	2000 04 07	699	0.5-	0.2+
1987 08 22	809	0.6+	0.7+	2000 03 10	704	0.8+	0.1+	2000 04 13	691	0.0	0.0
1987 08 22	809	1.1+	0.4-	2000 03 11	704	0.2+	0.1-	2000 04 13	691	0.2-	0.1+
1987 08 22	809	1.4-	1.5-	2000 03 11	704	0.2-	0.7+	2000 04 13	691	0.0	0.2-
1993 03 19	809	1.5-	1.8+	2000 03 11	704	0.1+	0.3-				
1993 03 20	809	0.8+	1.8-	2000 03 11	704	0.8+	0.2-				

2000 APR. 18

M.P.C. 39927

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	273.52737		(2000.0)		P	Q	
n	0.17271939	ω	275.06996		+0.59466083	+0.80393993	
a	3.1933167	Ω <td>31.42252</td> <td></td> <td>-0.73166947</td> <td>+0.54511665</td>	31.42252		-0.73166947	+0.54511665	
e	0.2182864	i <td>0.84476</td> <td></td> <td>-0.33322406</td> <td>+0.23775707</td>	0.84476		-0.33322406	+0.23775707	
P	5.71	H	12.9	G	0.15	U	1

Residuals in seconds of arc

1973 09 19	675	0.1-	1.1-	1996 10 05	816	0.0	0.8+	2000 04 05	704	0.2+	0.4-
1973 09 19	675	0.1+	0.8-	1999 02 07	691	0.9-	0.4-	2000 04 05	704	0.5+	0.5+
1973 09 20	675	0.7-	1.9-	1999 02 07	691	1.0-	0.2-	2000 04 05	704	0.1-	0.3-
1973 09 24	675	1.0-	0.0	1999 02 07	691	1.2-	0.3-	2000 04 05	704	0.1+	0.1-
1973 09 24	675	1.8-	1.6+	1999 02 10	704	(0.6+ 2.2-)		2000 04 05	704	0.1+	0.1-
1973 09 25	675	1.2+	1.1-	1999 02 10	704	0.1-	0.5-	2000 04 05	704	0.3-	0.2-
1973 09 25	675	0.1+	1.7-	1999 02 10	704	0.1-	0.5-	2000 04 06	704	0.2+	0.3-
1973 09 29	675	0.0	0.9+	1999 02 10	704	0.2+	0.0	2000 04 06	704	0.0	0.2-
1973 09 29	675	0.0	0.0	1999 02 13	691	0.3+	0.6-	2000 04 06	704	0.1-	0.4-
1973 09 30	675	0.3+	0.7-	1999 02 13	691	0.3+	0.5-	2000 04 06	704	0.5+	0.5-
1973 09 30	675	0.7+	0.7-	2000 03 14	703	0.1-	0.4+	2000 04 06	704	0.1+	0.0
1973 10 04	675	0.3+	0.0	2000 03 14	703	(2.6- 0.4+)		2000 04 07	704	0.1+	0.3-
1973 10 04	675	1.3+	0.5+	2000 03 14	703	0.4-	0.1-	2000 04 07	704	0.2-	0.2-
1973 10 05	675	1.6+	0.5+	2000 03 14	703	0.2+	0.1+	2000 04 07	704	0.1+	0.1+
1973 10 05	675	1.1+	1.3-	2000 04 04	704	0.2-	0.1+	2000 04 07	704	0.1+	0.6+
1990 09 15	675	0.5-	0.9-	2000 04 04	704	0.6+	0.3+	2000 04 08	704	0.6+	0.1+
1990 09 17	675	0.3-	1.4-	2000 04 04	699	0.8-	0.3-	2000 04 08	704	0.3+	0.1+
1990 09 17	675	0.7-	1.2-	2000 04 04	704	0.9-	0.2-	2000 04 08	704	0.9+	0.2-
1990 09 23	095	0.1+	1.3+	2000 04 04	704	0.1+	0.1-	2000 04 08	704	0.1-	0.4+
1996 09 18	327	0.5+	1.0+	2000 04 04	699	0.1-	0.2+	2000 04 08	704	0.2-	0.6+
1996 09 18	327	0.0	0.0	2000 04 04	704	0.2+	0.8+	2000 04 10	704	0.4-	0.1+
1996 09 18	327	0.1-	0.5+	2000 04 04	699	0.6-	0.5+	2000 04 10	704	0.1+	0.2-
1996 09 21	327	0.2+	0.4+	2000 04 04	699	0.5-	0.1-	2000 04 10	704	0.2+	0.4-
1996 09 21	327	0.1+	0.7+	2000 04 05	704	0.6-	0.1-	2000 04 10	704	0.2+	0.4-
1996 09 21	327	0.2-	0.8+	2000 04 05	704	0.0	0.2+	2000 04 10	704	0.1+	0.0
1996 10 05	816	0.1-	0.6+	2000 04 05	704	0.4+	0.5-				
1996 10 05	816	0.2+	0.6+	2000 04 05	704	0.4-	0.5-				

(14779)* 3072 T-2 = 1978 TZ₅ = 1998 XA₇₄

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 33535)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	220.83614		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.20608832	ω	240.10491	+0.80589282	+0.58945578
a	2.8385756	Ω	83.72189	-0.52213864	+0.75176970
e	0.0690886	i	3.19993	-0.27912005	+0.29560820
P	4.78	H	13.0	G 0.15	U 1

Residuals in seconds of arc

1973 09 19	675	0.0	0.7+	1997 10 30	704	1.4-	1.3+	2000 03 12	704	0.1-	0.4-
1973 09 19	675	0.1+	1.1-	1997 10 30	704	1.0-	1.1+	2000 03 12	704	0.3+	0.5-
1973 09 20	675	1.4+	0.8-	1997 10 30	704	0.9-	1.1+	2000 03 12	704	0.3+	0.1-
1973 09 24	675	0.0	2.3-	1997 10 30	704	0.5-	0.8+	2000 03 12	704	0.0	1.2-
1973 09 24	675	1.2+	1.8-	1997 10 30	704	(0.2+ 2.9+)		2000 03 26	699	0.3-	0.0
1973 09 25	675	1.7+	2.2-	1997 10 30	704	1.4-	0.1+	2000 03 26	699	0.1+	0.2-
1973 09 25	675	(1.5+ 2.8-)		1998 12 14	704	0.5-	0.3-	2000 03 26	699	0.3+	0.2-
1973 09 29	675	0.7+	0.1-	1998 12 14	704	0.3+	0.3-	2000 03 26	699	0.0	0.2-
1973 09 29	675	0.8+	0.6+	1998 12 14	704	0.5+	0.3+	2000 03 29	704	0.0	0.0
1973 09 30	675	0.5-	1.7-	1998 12 14	704	0.6+	0.6+	2000 03 29	704	0.1-	0.5-
1973 09 30	675	0.2-	0.4-	1998 12 17	704	0.2+	0.2-	2000 03 29	704	0.3-	0.1-
1973 10 04	675	0.8-	0.5+	1998 12 17	704	(2.9+ 0.3+)		2000 03 29	704	0.1+	0.5-
1973 10 04	675	1.1-	0.7+	1998 12 17	704	0.2+	0.9-	2000 04 04	704	0.7+	0.2+
1973 10 05	675	0.5+	0.9-	1998 12 17	704	1.2-	1.6-	2000 04 04	704	0.5+	0.0
1973 10 05	675	1.2+	1.0-	1999 01 16	704	0.1+	0.2-	2000 04 04	704	0.4-	1.3-
1978 10 07	095	0.2-	0.9-	1999 01 16	704	0.1+	0.2+	2000 04 04	704	0.4+	0.6+
1994 01 17	010	0.9-	0.1+	1999 01 16	704	0.3+	0.6+	2000 04 04	704	0.5-	1.3-

1994 01 17	010	1.3+	0.2+	1999 01 16	704	0.2-	0.1+	2000 04 07	699	0.2+	0.5+
1994 01 17	010	0.4-	0.1-	2000 02 27	703	1.5-	0.5+	2000 04 07	699	0.9-	0.3-
1995 03 23	033	0.5-	0.1+	2000 02 27	703	0.1-	0.6-	2000 04 07	699	0.1-	0.2+
1995 03 23	033	1.3-	0.3-	2000 02 27	703	0.8-	0.3-	2000 04 07	699	0.3-	0.1+
1997 10 28	704	0.8+	0.4-	2000 02 27	703	0.4-	0.5+	2000 04 08	704	0.0	0.0
1997 10 28	704	1.1+	0.6-	2000 03 05	608	(0.5+ 2.8-)		2000 04 08	704	0.2+	0.3-
1997 10 28	704	0.5+	0.9-	2000 03 05	608	0.5+	1.5-	2000 04 08	704	0.4+	0.5-
1997 10 28	704	0.3-	1.0+	2000 03 05	608	0.2+	1.6-	2000 04 08	704	0.3+	0.1+
1997 10 28	704	0.7-	0.2+	2000 03 08	704	0.3-	0.9+	2000 04 08	704	0.3+	0.1-
1997 10 30	704	1.1+	1.5+	2000 03 08	704	0.7-	0.5-	2000 04 10	704	0.2-	0.5-
1997 10 30	704	(1.7- 3.2+)		2000 03 08	704	1.2+	0.3-	2000 04 10	704	0.3+	0.2+
1997 10 30	704	0.3-	0.9+	2000 03 08	704	0.0	1.7+	2000 04 10	704	0.0	0.5+
1997 10 30	704	(1.9- 2.1+)		2000 03 08	704	0.3-	1.2+	2000 04 10	704	0.2+	0.8+

(14780)* 1078 T-3 = 3120 P-L

Discovered 1977 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 12701), K. Hurukawa (*ibid.*)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	350.29127		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.23393524	ω	268.94498	-0.80783517	-0.55268295		
a	2.6085888	Ω	237.47178	+0.58933664	-0.76283175		
e	0.0702835	i	14.05823	-0.00920129	-0.33560286		
P	4.21	H	13.9	G	0.15	U	2

Residuals in seconds of arc

1954 04 03	675	0.4+	0.3+	1998 10 18	704	0.2+	1.4+	2000 01 07	699	0.7+	0.2-
1954 04 03	675	0.3-	0.9-	1998 10 18	704	0.4+	0.3-	2000 01 09	704	0.4-	1.0+
1960 09 24	675	0.8-	0.3-	1998 10 18	699	0.0	0.2-	2000 01 09	704	1.0-	0.2-
1960 09 25	675	1.9+	0.2-	1998 10 18	704	0.6-	1.0-	2000 01 09	704	1.8-	0.7-
1960 09 27	675	1.6-	1.0-	1998 10 18	699	0.0	0.1+	2000 02 05	703	0.2-	0.1-
1977 10 12	675	0.6+	0.4+	1998 10 18	699	0.5+	1.1+	2000 02 05	703	0.4-	0.3-
1977 10 12	675	0.3+	1.8+	1999 10 10	704	0.0	0.4+	2000 02 05	703	0.2+	0.0
1977 10 16	675	(0.2- 4.0-)		1999 10 10	704	0.0	0.1+	2000 02 05	703	0.2-	0.2-
1977 10 16	675	0.8-	1.8-	1999 10 10	704	0.6+	0.0	2000 02 08	704	0.1-	0.0
1977 10 17	675	0.5+	0.4+	1999 10 10	704	0.1+	0.6-	2000 02 08	704	0.3-	0.2+
1977 10 17	675	0.8+	1.9+	1999 12 13	703	0.5+	0.0	2000 02 08	704	0.2+	0.3-
1977 10 22	675	0.2+	1.5-	1999 12 13	703	1.2-	0.0	2000 02 08	704	0.0	0.6-
1977 10 22	675	0.5-	1.0-	1999 12 13	703	0.1-	0.5-	2000 02 08	704	0.3+	0.6-
1998 09 23	704	1.5-	1.2+	1999 12 13	703	0.2+	0.2+	2000 04 04	704	0.1-	0.3+
1998 09 23	704	0.1+	0.5-	1999 12 31	106	0.8-	0.7-	2000 04 04	704	0.6+	0.6+
1998 09 23	704	0.8-	0.4-	1999 12 31	106	1.5+	0.8+	2000 04 04	704	0.7+	1.1+
1998 10 18	704	0.0	0.7-	2000 01 07	699	0.6+	0.1+	2000 04 04	704	0.7+	0.8+
1998 10 18	704	1.3+	1.0+	2000 01 07	699	0.3+	0.3+				

(14781)* 1107 T-3 = 1982 UW₇ = 1997 WR₇

Discovered 1977 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. T. Urata (*MPC* 31132)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	257.73149		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.20090839	ω	66.58266	+0.59599774	+0.77825337		
a	2.8871588	Ω	241.49162	-0.79408991	+0.53468269		
e	0.1516973	i	13.00557	-0.11919695	+0.32929638		
P	4.91	H	12.8	G	0.15	U	1

Residuals in seconds of arc

1977 10 16	675	0.0	2.2-	1997 12 04	704	(2.5+ 2.0+)	1999 02 16	704	0.0	0.3-
1977 10 16	675	0.0	1.6-	1997 12 04	704	1.6+ 0.4+	1999 02 16	704	0.5-	1.3-
1977 10 17	675	1.6+	0.9+	1997 12 04	704	1.8+ 0.2-	1999 02 16	704	0.3-	0.0
1977 10 17	675	0.3+	1.4+	1997 12 04	704	0.8+ 0.2-	1999 02 16	704	0.4+	1.2-
1977 10 22	675	1.7-	0.8-	1997 12 04	905	0.2- 0.1-	1999 02 16	704	(2.9- 0.5+)	
1977 10 22	675	0.4+	1.4+	1997 12 04	905	0.1+ 0.2+	2000 01 28	704	0.1-	0.5+
1982 10 21	995	0.4-	0.2-	1997 12 05	704	1.1+ 0.9-	2000 01 28	704	(2.1+ 0.4+)	
1997 11 19	905	0.9+	1.6-	1997 12 05	704	(2.9+ 0.1-)	2000 01 28	704	1.2+	1.4+

1997 11 19	905	0.6−	1.4−	1997 12 05	704	(2.3+	0.5−)	2000 03 14	704	0.4+	0.1+
1997 11 19	905	(0.8−	3.1−)	1997 12 05	704	(2.2+	1.8−)	2000 03 14	704	0.1+	0.1−
1997 11 23	905	0.9−	0.3+	1997 12 05	704	1.2−	0.8−	2000 03 14	704	0.2−	0.5−
1997 11 23	905	0.7−	0.7+	1998 02 16	327	0.4−	0.4+	2000 03 14	704	0.2+	0.0
1997 11 23	905	0.5−	0.3−	1998 02 16	327	0.3+	0.4+	2000 03 14	704	0.2−	0.3+
1997 11 24	886	0.3−	1.2+	1998 02 16	327	0.3−	0.7+	2000 04 06	704	1.2−	0.6+
1997 11 24	886	1.0+	1.2+	1998 02 16	327	0.4−	0.8+	2000 04 06	704	0.5−	0.6−
1997 11 29	704	1.5−	0.2−	1998 12 23	704	0.2+	0.1−	2000 04 06	704	0.6−	1.0−
1997 11 29	704	0.3+	0.1+	1998 12 23	704	0.1−	0.1−	2000 04 11	608	0.1+	0.1−
1997 11 29	704	1.6−	1.0−	1998 12 23	704	0.4+	1.8+	2000 04 11	608	0.1+	0.3−
1997 11 29	704	0.3+	0.0	1998 12 23	704	1.0−	0.7−	2000 04 11	608	0.6+	0.1−
1997 11 29	704	1.1−	0.4+	1999 02 06	385	0.0	0.2+				
1997 12 04	704	1.3+	1.4+	1999 02 06	385	0.6+	0.4+				

(14782)* 3149 T-3 = 1993 FZ₇₈

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. E. Bowell (*MPC* 23786)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27899281	ω	284.74591	−0.14892536	−0.98884185		
<i>a</i>	2.3195694	Ω	173.81535	+0.91965330	−0.13984493		
<i>e</i>	0.1578951	<i>i</i>	1.92025	+0.36339929	−0.05133412		
<i>P</i>	3.53	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 10 07	675	2.3+	1.0−	1998 09 13	691	0.1+	0.4+	2000 03 14	691	0.1+	0.4−
1977 10 11	675	0.8−	0.6+	1998 09 14	704	0.4+	0.3−	2000 03 14	691	0.0	0.5−
1977 10 11	675	0.7−	0.4+	1998 09 14	704	1.3+	1.5+	2000 03 26	699	1.0+	0.9−
1977 10 12	675	0.7+	0.4−	1998 09 14	704	0.0	0.8+	2000 03 26	699	0.2+	0.3+
1977 10 12	675	0.3−	0.4+	1998 09 14	704	1.5−	1.2+	2000 03 26	699	0.0	0.3+
1977 10 16	675	0.5+	1.1−	1998 09 19	691	0.3−	0.6+	2000 03 26	699	0.4−	0.7+
1977 10 16	675	0.0	0.3−	1998 09 19	691	0.2+	0.4+	2000 04 05	704	0.3−	0.6+
1977 10 17	675	0.8−	1.9+	1998 09 19	691	0.3−	0.1+	2000 04 05	704	0.1−	0.0
1977 10 17	675	1.0−	0.7+	2000 03 08	704	0.6−	0.7+	2000 04 05	704	0.7−	0.2−
1977 10 21	675	0.8−	0.5−	2000 03 08	704	0.5+	0.0	2000 04 05	704	0.1+	0.7−
1977 10 21	675	0.1−	0.4+	2000 03 08	704	0.6+	0.7+	2000 04 05	704	0.0	0.9−
1977 10 22	675	1.5+	0.8−	2000 03 08	704	1.2+	0.0	2000 04 06	704	0.1+	0.4+
1977 10 22	675	0.3−	0.7−	2000 03 08	704	0.0	0.4−	2000 04 06	704	0.8−	1.0−
1993 03 21	809	0.4−	0.8+	2000 03 10	704	0.1+	0.1+	2000 04 06	704	0.2+	0.4+
1993 03 22	809	0.8+	0.3−	2000 03 10	704	0.1+	0.2+	2000 04 06	704	0.1−	0.6−
1993 04 18	413	(3.1−	1.3+)	2000 03 10	704	0.6+	0.5+	2000 04 07	699	0.1+	1.4+
1998 08 26	691	0.1+	0.2−	2000 03 10	704	0.2+	0.5+	2000 04 07	699	1.2+	0.4−
1998 08 26	691	0.0	0.2−	2000 03 10	704	0.3+	1.1+	2000 04 07	699	0.6−	1.1+
1998 08 26	691	0.1+	0.1−	2000 03 11	704	0.5+	0.3+	2000 04 07	699	0.6−	0.4+
1998 08 30	691	0.8−	0.3−	2000 03 11	704	0.7+	0.6+	2000 04 10	704	0.2−	0.5+
1998 08 30	691	0.3−	0.1−	2000 03 11	704	0.6+	1.0+	2000 04 10	704	0.5−	0.7+
1998 08 30	691	0.4−	0.4−	2000 03 11	704	0.1−	0.4+	2000 04 10	704	0.1−	0.1−
1998 08 31	691	0.1+	0.3−	2000 03 11	704	0.5+	0.4+	2000 04 10	704	1.1−	0.8−
1998 08 31	691	0.2−	0.5−	2000 03 12	691	0.2+	0.2−	2000 04 12	608	0.9−	1.0−
1998 08 31	691	0.1−	0.3−	2000 03 12	691	0.0	0.2−	2000 04 12	608	1.0−	1.3−
1998 09 13	691	0.0	0.4+	2000 03 12	691	0.3+	0.2−	2000 04 12	608	0.8−	0.4−
1998 09 13	691	0.4+	0.8+	2000 03 14	691	0.1−	0.5−				

(14783)* 3152 T-3 = 1982 UP₄ = 1997 TE₁₉

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. S. Nakano (*MPC* 30777)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19782102	ω	250.48100	+0.52115723	+0.85259963		
<i>a</i>	2.9171209	Ω	50.98878	−0.76337890	+0.48576097		
<i>e</i>	0.1003225	<i>i</i>	2.82734	−0.38163830	+0.19263997		
<i>P</i>	4.98	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 10 07	675	1.6+	1.5−	1997 11 03	704	1.1−	1.4+	2000 03 14	703	0.1−	0.7+
1977 10 11	675	0.7−	0.6−	1997 11 03	704	1.8−	0.3+	2000 03 14	703	0.4−	0.1+
1977 10 11	675	1.0−	0.3−	1999 01 16	704	0.0	1.2−	2000 03 14	703	0.6+	0.1+
1977 10 12	675	0.9+	1.5−	1999 01 16	704	1.2−	1.4−	2000 03 26	699	0.2−	0.2+
1977 10 12	675	1.5+	1.0−	1999 01 16	704	0.2+	0.6−	2000 03 26	699	0.2−	0.2+
1977 10 16	675	1.1+	0.5−	1999 01 16	704	0.8+	0.3−	2000 03 26	699	0.4−	0.4−
1977 10 16	675	0.9+	0.8−	2000 02 27	703	0.0	0.2−	2000 03 26	699	0.4+	0.6−
1977 10 17	675	0.2+	0.9−	2000 02 27	703	0.2+	0.0	2000 04 05	704	0.1+	0.3+
1977 10 17	675	0.1−	0.2−	2000 02 27	703	1.6−	0.6+	2000 04 05	704	0.2+	0.3+
1977 10 21	675	1.4−	0.9+	2000 02 27	703	1.0−	0.7−	2000 04 05	704	0.4−	0.3−
1977 10 21	675	0.4+	0.0	2000 03 07	620	0.1+	1.7−	2000 04 05	704	0.3−	0.1−
1977 10 22	675	(1.2+	3.2−)	2000 03 07	620	0.1+	1.3−	2000 04 05	704	0.2+	0.2−
1977 10 22	675	(0.5+	2.8−)	2000 03 07	620	0.0	0.9−	2000 04 07	699	0.4−	0.3−
1982 10 20	033	0.6−	0.3−	2000 03 07	620	1.7−	1.0+	2000 04 07	699	0.0	0.5+
1997 10 08	376	0.6−	0.6+	2000 03 07	620	0.4+	0.2+	2000 04 07	699	0.0	0.5+
1997 10 08	376	0.6−	0.3+	2000 03 08	704	0.0	1.3+	2000 04 07	699	0.6−	0.3+
1997 10 10	376	0.5+	0.7+	2000 03 08	704	1.0+	1.3+	2000 04 08	704	0.2−	0.5−
1997 10 10	376	0.4−	1.4−	2000 03 08	704	0.6+	0.8+	2000 04 08	704	0.5+	0.1+
1997 10 30	704	0.4−	1.8+	2000 03 08	704	1.0+	1.0−	2000 04 08	704	0.4+	0.3−
1997 10 30	704	0.4−	1.6+	2000 03 08	704	0.1+	0.3−	2000 04 08	704	0.3−	0.1+
1997 10 30	704	0.5−	1.6+	2000 03 11	704	0.2+	0.9+	2000 04 08	704	0.6−	0.3−
1997 10 30	704	(1.0−	2.1+)	2000 03 11	704	0.6+	0.5+	2000 04 10	704	0.0	0.0
1997 10 30	704	0.1+	0.8+	2000 03 11	704	0.4+	0.5+	2000 04 10	704	0.3+	0.0
1997 11 03	704	0.2+	1.1+	2000 03 11	704	0.6+	0.6+	2000 04 10	704	0.2+	0.1−
1997 11 03	704	(1.4−	3.5+)	2000 03 11	704	1.4+	1.3+	2000 04 10	704	0.0	0.1+
1997 11 03	704	0.3+	2.0+	2000 03 14	703	0.4+	0.1−	2000 04 10	704	0.1−	0.5+

(14784)* 3268 T-3 = 1991 TE₁₀

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. G. V. Williams (*MPC* 20518)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	354.74787	ω	320.29594	−0.96833529	−0.24569658		
<i>a</i>	2.3078299	Ω	205.58450	+0.24708148	−0.91778301		
<i>e</i>	0.0430855	<i>i</i>	5.88416	+0.03574222	−0.31194155		
<i>P</i>	3.51	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 10 07	675	0.3+	0.5+	1991 10 15	691	0.1−	0.7+	1998 10 18	327	0.5+	0.3+
1977 10 11	675	1.1−	0.1−	1991 10 15	691	0.1+	0.5+	1998 10 18	327	0.3−	0.2+
1977 10 11	675	1.2+	0.1+	1997 06 10	691	0.5+	0.4+	2000 02 08	704	0.3+	0.2+
1977 10 12	675	0.8+	2.0+	1997 06 10	691	0.7+	0.3+	2000 02 08	704	0.4−	0.3+
1977 10 12	675	2.0+	0.3+	1997 06 10	691	0.2+	0.9+	2000 02 08	704	0.5+	0.1+
1977 10 16	675	0.4+	0.8−	1997 06 11	691	0.1−	0.3−	2000 03 08	704	0.8−	0.1+
1977 10 16	675	0.3−	0.4−	1997 06 11	691	0.5−	0.3−	2000 03 08	704	0.1−	0.3+
1977 10 17	675	0.5−	0.7+	1997 06 11	691	0.2+	0.5−	2000 03 08	704	1.4+	0.5+
1977 10 17	675	0.5−	0.0	1997 06 29	691	0.2−	0.3+	2000 03 08	704	(2.8−	2.6+)
1977 10 21	675	1.3−	0.7−	1997 06 29	691	0.2−	0.6+	2000 03 08	704	(0.7−	2.3+)
1977 10 21	675	1.5−	1.2−	1997 06 29	691	0.3−	0.3+	2000 04 04	699	0.1+	0.0
1991 10 10	691	0.1+	0.0	1998 09 26	704	0.5−	1.9−	2000 04 04	699	0.3−	0.1−
1991 10 10	691	0.2+	0.4+	1998 09 26	704	1.7−	1.1+	2000 04 04	699	0.6−	0.3+
1991 10 10	691	0.6+	0.1+	1998 09 26	704	1.6+	0.5−	2000 04 04	699	0.6+	0.1+
1991 10 15	691	0.0	0.6+	1998 10 18	327	0.7−	0.5+				

2000 APR. 18

M.P.C. 39929

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	340.18299		(2000.0)	P	Q
<i>n</i>	0.27229649	ω	268.37803	-0.40595363	-0.91296003
<i>a</i>	2.3574438	Ω	205.69647	+0.87179024	-0.37329707
<i>e</i>	0.0878659	<i>i</i>	5.46551	+0.27419597	-0.16478251
<i>P</i>	3.62	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1977 10 07	675	0.2+	1.1-	1999 10 21	704	0.1+	0.6-	1999 12 03	699	0.9+	0.3-
1977 10 07	675	(1.4+	2.9-)	1999 10 21	704	0.3+	0.7-	1999 12 03	699	0.3+	0.9+
1977 10 11	675	1.1+	1.0+	1999 10 21	704	0.2-	0.5-	1999 12 06	704	0.2+	0.3-
1977 10 11	675	0.8+	0.6-	1999 10 21	704	0.4+	0.5-	1999 12 06	704	0.2+	0.1-
1977 10 12	675	0.4+	0.1+	1999 10 21	704	0.1-	0.7-	1999 12 06	704	0.1+	0.6-
1977 10 12	675	1.1+	1.2+	1999 10 30	703	0.1-	0.9+	1999 12 06	704	0.2-	0.3+
1977 10 16	675	0.5+	0.7-	1999 10 30	703	0.6-	0.4+	1999 12 06	704	0.7-	0.0
1977 10 16	675	1.3+	1.7-	1999 10 30	703	0.5-	0.7+	1999 12 13	699	0.2-	1.3+
1977 10 17	675	0.4-	0.5-	1999 10 30	703	0.2-	0.2+	1999 12 13	699	0.6+	0.7+
1977 10 17	675	1.7-	1.5-	1999 11 04	704	0.1-	0.1+	1999 12 13	699	0.0	1.7+
1977 10 21	675	0.7-	1.7-	1999 11 04	704	0.1+	0.1+	1999 12 14	704	0.1+	0.1+
1977 10 21	675	1.6-	1.1+	1999 11 04	704	0.2+	0.5-	1999 12 14	704	0.4+	0.3-
1977 10 22	675	0.6+	1.0-	1999 11 04	704	0.1+	0.6+	1999 12 14	704	0.1+	0.1-
1977 10 22	675	(3.0+	0.2-)	1999 11 04	704	0.5-	0.5+	1999 12 14	704	0.9+	0.1-
1997 04 28	704	0.3-	1.1+	1999 11 10	699	0.1+	0.0	1999 12 14	704	1.0-	1.1-
1997 04 28	704	0.5-	0.7-	1999 11 10	699	0.9-	1.2+	1999 12 30	699	0.1+	0.2+
1997 04 28	704	1.4-	1.7-	1999 11 10	699	0.7-	0.7+	1999 12 30	699	0.2-	0.0
1997 04 28	704	1.2-	1.6-	1999 11 15	704	0.6-	1.1-	1999 12 30	699	(2.2+	0.0)
1997 04 29	704	0.7+	0.8-	1999 11 15	704	0.1-	0.4-	2000 02 04	704	0.4+	0.8+
1997 04 29	704	1.2+	1.7-	1999 11 15	704	0.2-	0.2-	2000 02 04	704	0.1+	0.0
1997 04 29	704	0.7+	1.4-	1999 11 15	704	0.0	0.4-	2000 02 04	704	0.8+	0.7+
1997 04 29	704	1.0-	2.0+	1999 11 15	704	0.1+	0.2-	2000 03 05	704	0.7-	0.2-
1998 06 24	704	(1.2-	3.1+)	1999 11 17	704	0.8-	0.8-	2000 03 05	704	0.1+	0.2-
1998 06 24	704	0.6-	0.5+	1999 11 17	704	0.3+	0.1+	2000 03 05	704	0.5-	0.6-
1998 06 24	704	(1.5-	2.6+)	1999 11 17	704	0.0	0.0	2000 03 05	704	0.5+	0.5-
1998 06 24	704	0.8+	0.2-	1999 11 17	704	0.1-	0.0	2000 03 09	704	0.2+	0.5-
1999 10 15	704	0.3-	0.1+	1999 11 19	699	0.1-	1.1+	2000 03 09	704	0.4+	0.3-
1999 10 15	704	0.5-	0.2-	1999 11 19	699	0.9+	0.0	2000 03 09	704	0.9+	0.3-
1999 10 15	704	0.3-	0.5-	1999 11 19	699	0.5+	0.9+	2000 03 09	704	0.3+	0.2+
1999 10 15	704	0.6-	0.5-	1999 12 03	699	1.1+	0.2+				

(14786)* 4052 T-3 = 1993 FH₈₃

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. G. V. Williams (*MPC* 24758)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	348.08838		(2000.0)	P	Q
<i>n</i>	0.28603196	ω	151.83360	-0.88867315	+0.44524653
<i>a</i>	2.2813557	Ω	55.02175	-0.44181387	-0.76745040
<i>e</i>	0.0531626	<i>i</i>	7.68810	-0.12272136	-0.46127584
<i>P</i>	3.45	<i>H</i>	14.5	<i>G</i>	0.15

Residuals in seconds of arc

1977 10 07	675	1.2+	0.2-	1998 11 18	704	(0.9-	2.3+)	1998 12 14	704	0.5-	0.3-
1977 10 11	675	0.4-	1.3-	1998 11 18	704	1.0-	1.2+	1998 12 14	704	0.0	0.7+
1977 10 11	675	0.0	0.9-	1998 11 20	699	0.2+	0.2+	2000 02 08	704	0.1-	1.1+
1977 10 12	675	0.1-	0.4-	1998 11 20	699	1.1-	0.3-	2000 02 08	704	0.7-	0.4-
1977 10 12	675	0.5-	0.1+	1998 11 20	699	0.1+	0.0	2000 02 08	704	0.9+	0.2-
1977 10 16	675	1.4-	0.4+	1998 11 21	704	0.2-	1.1-	2000 02 11	704	0.7-	0.3+
1977 10 16	675	1.9-	0.3+	1998 11 21	704	0.6+	0.4-	2000 02 11	704	0.4-	0.5+
1977 10 17	675	0.6+	1.1-	1998 11 21	704	0.3+	0.7-	2000 02 11	704	0.5+	0.1+
1977 10 17	675	1.0+	0.4-	1998 11 24	704	0.2+	0.1-	2000 04 07	704	0.4-	0.1-
1977 10 21	675	1.5+	0.3-	1998 11 24	704	0.5+	0.2+	2000 04 07	704	0.0	0.0
1977 10 21	675	2.2+	0.1+	1998 11 24	704	0.7-	0.4-	2000 04 07	704	0.1+	1.0+
1993 03 19	691	0.4-	0.8-	1998 11 24	704	0.4+	0.5+	2000 04 07	704	0.1+	0.5+
1993 03 19	691	0.4-	0.8-	1998 11 25	699	1.1+	0.0	2000 04 07	704	0.3+	0.1+
1993 03 19	691	0.4-	0.6-	1998 11 25	699	0.6+	0.1+	2000 04 08	704	0.2-	0.1-

1993 03 23	809	0.0	0.8-	1998 11 25	699	1.1+	0.4-	2000 04 08	704	0.5+	0.9+
1993 04 16	413	0.9-	0.5-	1998 12 11	699	0.1-	0.2-	2000 04 08	704	0.3+	0.2+
1998 11 18	704	0.5+	0.4-	1998 12 11	699	0.6-	0.6+	2000 04 13	608	0.1-	0.9-
1998 11 18	704	0.3+	0.1+	1998 12 11	699	0.2-	0.0	2000 04 13	608	0.4-	1.1-
1998 11 18	704	1.9-	0.7+	1998 12 14	704	0.1+	0.3+	2000 04 13	608	0.4+	1.3-

(14787)* 5038 T-3 = 2000 AY₉₅

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. A. Doppler (*MPC* 39508)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	221.09363		(2000.0)	P	Q
<i>n</i>	0.19282605	ω	161.09036	+0.30836479	+0.94026211
<i>a</i>	2.9672826	Ω	126.61532	-0.89430623	+0.33824396
<i>e</i>	0.0371833	<i>i</i>	10.35577	-0.32423376	-0.03870651
<i>P</i>	5.11	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

1977 10 11	675	1.2+	0.6-	1998 12 15	704	(6.4-	2.6-)	2000 01 30	704	0.2-	0.9+
1977 10 11	675	1.4+	0.0	1998 12 17	699	0.4+	0.0	2000 01 30	704	0.7+	0.3+
1977 10 12	675	0.4-	0.7-	1998 12 17	699	0.1-	1.2+	2000 01 30	703	0.1+	0.1+
1977 10 12	675	0.2+	0.9-	1998 12 17	699	0.7+	0.0	2000 01 30	703	0.0	0.1-
1977 10 16	675	0.1-	0.7-	1999 01 10	699	1.2-	0.4+	2000 01 30	703	0.2-	0.0
1977 10 16	675	0.9-	0.7-	1999 01 10	699	0.8+	0.5+	2000 01 30	703	0.1+	0.3+
1977 10 17	675	0.6-	1.1-	1999 01 10	699	0.4+	1.2+	2000 02 03	704	0.5-	0.0
1977 10 17	675	0.1-	2.0-	1999 11 16	704	0.2-	0.6-	2000 02 03	704	0.4-	0.9+
1977 10 21	675	0.2-	0.8-	1999 11 16	704	0.0	1.3-	2000 02 03	704	0.4-	0.2-
1977 10 21	675	0.2+	0.6+	1999 11 16	704	0.0	1.0-	2000 02 03	704	0.9+	0.5-
1977 10 22	675	1.5+	0.7-	1999 11 16	704	0.3-	1.2-	2000 02 11	704	0.7+	0.4-
1977 10 22	675	0.8+	0.6-	1999 11 16	704	0.5-	0.2+	2000 02 11	704	0.1+	0.5-
1997 09 02	566	0.4-	1.1+	1999 12 04	703	1.1+	0.3-	2000 02 11	704	0.3+	0.5-
1997 09 02	566	0.2-	1.1+	1999 12 04	703	0.1-	0.0	2000 02 11	704	0.1+	0.6-
1997 09 02	566	0.2-	1.1+	1999 12 04	703	0.5-	0.2+	2000 02 11	704	0.2+	0.1-
1998 11 13	704	0.5+	1.0+	1999 12 04	703	0.8+	1.5+	2000 02 28	704	0.1-	0.2-
1998 11 13	704	1.7-	0.4-	2000 01 04	704	0.1+	0.4+	2000 02 28	704	0.4-	0.4+
1998 11 13	704	0.8+	0.9-	2000 01 04	704	1.4-	0.0	2000 02 28	704	0.2-	0.3+
1998 11 13	704	1.2-	0.4+	2000 01 04	704	0.6+	0.6-	2000 02 28	704	0.2-	0.5+
1998 11 13	704	(7.6-	0.5-)	2000 01 04	704	0.4-	1.1+	2000 02 28	704	0.4-	0.8+
1998 11 16	699	0.7-	1.5+	2000 01 07	704	0.6+	0.2-	2000 03 04	704	0.0	0.0
1998 11 16	699	0.3-	1.4+	2000 01 07	704	0.1+	0.2+	2000 03 04	704	0.1+	0.1-
1998 11 16	699	0.3-	1.4+	2000 01 07	704	0.0	0.1-	2000 03 04	704	0.0	0.1+
1998 12 15	704	0.4+	0.6-	2000 01 07	704	0.3+	1.8-	2000 03 04	704	0.0	0.4+
1998 12 15	704	0.0	0.2-	2000 01 07	704	0.4+	1.1-	2000 03 04	704	0.2+	0.3+
1998 12 15	704	(0.4+	2.8-)	2000 01 30	704	0.4-	1.2-				
1998 12 15	704	0.7-	0.7+	2000 01 30	704	1.2-	0.5-				

(14788)* 5172 T-3 = 1990 CL = 2000 AA₇₆

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. M. E. Sansaturio (*MPC* 39509)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	204.20311		(2000.0)	P	Q
<i>n</i>	0.18676600	ω	136.78301	-0.19597126	+0.96937867
<i>a</i>	3.0311273	Ω	121.39786	-0.94029812	-0.14293768
<i>e</i>	0.0386120	<i>i</i>	9.98408	-0.27827094	-0.19968427
<i>P</i>	5.28	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

1977 10 12	675	1.1+	2.0-	1999 01 20	910	0.9-	0.9-	2000 01 06	704	0.1+	0.4-
1977 10 12	675	(1.5+	2.8-)	1999 01 20	910	1.2-	1.3-	2000 01 06	704	0.1+	0.7-

M.P.C. 39930

1977 10 21	675	0.4−	0.8+	1999 12 14	704	0.2+	0.0	2000 02 02	704	0.5+	0.4+
1977 10 22	675	(3.0−	0.7+)	1999 12 14	704	1.2−	1.3−	2000 02 02	704	0.1+	0.4+
1977 10 22	675	0.1+	0.4−	1999 12 14	704	0.6−	0.3+	2000 02 02	704	0.0	0.1+
1990 02 01	372	0.9+	1.3−	1999 12 14	704	0.9−	1.0+	2000 02 02	704	0.2−	0.0
1990 02 01	372	1.6−	0.1−	2000 01 05	704	0.5−	0.0	2000 02 03	704	0.1+	0.4+
1998 09 21	699	0.5+	1.1+	2000 01 05	704	0.6+	0.4−	2000 02 03	704	0.6+	0.8+
1998 09 21	699	0.0	0.8+	2000 01 05	704	0.4−	0.0	2000 02 03	704	0.3+	0.5+
1998 09 21	699	0.7+	0.2+	2000 01 05	704	0.1−	0.1+	2000 02 03	704	0.4+	0.7+
1998 10 18	699	0.2+	1.3+	2000 01 05	704	0.4+	0.0	2000 02 03	704	0.3−	0.7+
1998 10 18	699	0.2−	1.2+	2000 01 06	704	0.1−	0.4+				
1998 10 18	699	0.8−	1.4+	2000 01 06	704	0.3+	0.4−				

1968 OD₁ = 1988 VQ₁₃ = 2000 GD₈₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	206.61645	(2000.0)	
<i>n</i>	0.30127728	<i>ω</i>	101.50968
<i>a</i>	2.2037304	<i>Ω</i>	245.08816
<i>e</i>	0.1476162	<i>i</i>	5.68181
<i>P</i>	3.27	<i>H</i>	14.4

Residuals in seconds of arc

1968 07 25	805	(4.1+	1.4−)	2000 03 14	704	0.4−	0.4−	2000 04 07	704	0.6−	0.3−
1968 07 28	805	0.1−	0.1+	2000 03 14	704	0.4+	0.4+	2000 04 07	704	0.1−	0.5+
1968 07 30	805	0.3+	1.1−	2000 03 27	699	0.1−	0.1−	2000 04 07	704	0.5+	1.0+
1968 07 30	805	0.2+	0.1+	2000 03 27	699	0.1+	0.2+	2000 04 07	704	0.1+	0.0
1968 08 23	805	0.5−	1.0+	2000 03 27	699	1.2+	1.6+	2000 04 07	704	0.4−	0.6−
1988 11 04	327	0.1+	0.1−	2000 03 27	699	0.1+	0.3−	2000 04 10	608	0.3−	0.4−
1988 11 04	327	0.0	0.3−	2000 04 06	704	0.6+	0.2+	2000 04 10	608	0.5−	0.3−
2000 03 14	704	1.0−	0.2−	2000 04 06	704	0.1−	1.1−	2000 04 10	608	0.2−	0.2−
2000 03 14	704	0.5+	0.5+	2000 04 06	704	0.1+	0.7−				

1968 OE₁ = 2000 GB₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	282.27484	(2000.0)	
<i>n</i>	0.30429727	<i>ω</i>	63.66481
<i>a</i>	2.1891256	<i>Ω</i>	226.15146
<i>e</i>	0.1852016	<i>i</i>	4.67204
<i>P</i>	3.24	<i>H</i>	15.3

Residuals in seconds of arc

1968 07 25	805	0.4+	0.3−	2000 04 07	704	0.0	0.3−	2000 04 08	704	0.8+	0.2+
1968 07 28	805	0.1+	0.4+	2000 04 07	704	0.1−	0.2−	2000 04 12	704	1.1−	0.6−
1968 07 30	805	0.2+	0.0	2000 04 07	704	0.2+	0.4−	2000 04 12	704	0.1−	1.1+
1968 07 30	805	0.9−	0.1+	2000 04 07	704	1.3+	0.6−	2000 04 12	704	0.4−	0.3+
1968 08 22	805	0.4+	0.6+	2000 04 08	704	0.5+	0.1+	2000 04 12	704	0.5+	0.1+
1968 08 23	805	0.3−	0.8−	2000 04 08	704	0.3−	0.5+				
2000 04 07	704	0.3−	0.1+	2000 04 08	704	1.1−	0.3−				

1977 EE₇ = 1989 SW₁₀ = 1998 FP₁₆ = 1999 LR₂₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	31.94905	(2000.0)	
<i>n</i>	0.18518703	<i>ω</i>	296.54833
<i>a</i>	3.0483325	<i>Ω</i>	348.39740
<i>e</i>	0.2299539	<i>i</i>	2.74688
<i>P</i>	5.32	<i>H</i>	13.2

Residuals in seconds of arc

1977 03 12	381	0.7−	1.4−	1998 03 04	809	1.4+	0.4+	1999 05 18	704	1.8+	0.5−
1977 03 12	381	0.7−	1.1−	1998 03 04	809	0.3+	0.6+	1999 05 18	704	0.5−	0.2+
1977 03 14	381	0.1−	0.5+	1998 03 20	704	0.8−	1.0+	1999 05 18	704	0.5−	0.7+
1977 03 15	381	0.2−	1.8−	1998 03 20	704	0.9+	0.7+	1999 06 09	704	0.2+	0.2+
1977 03 15	381	0.2−	0.3−	1998 03 20	704	(2.9−	1.5+)	1999 06 09	704	0.0	0.2−
1989 09 28	809	0.3+	0.5+	1998 03 20	704	0.6+	0.0	1999 06 09	704	0.0	0.0

2000 APR. 18

1989 09 28	809	0.2+	0.4+	1998 03 22	704	0.5−	0.0	1999 06 09	704	0.5+	0.6−
1989 09 28	809	0.2+	0.4+	1998 03 22	704	1.6−	1.2+	1999 06 09	704	0.2+	1.5−
1989 09 29	809	0.0	0.5−	1998 03 22	704	0.7+	0.4+	1999 06 15	704	0.4−	0.2+
1989 09 29	809	0.2−	0.6−	1998 03 22	704	1.3+	0.6+	1999 06 15	704	0.2−	0.2+
1989 09 29	809	0.2−	0.8−	1998 03 22	704	(2.2−	0.3−)	1999 06 15	704	0.4−	0.1+
1998 03 03	809	0.3−	0.0	1998 03 25	566	0.1−	0.3−	1999 06 15	704	0.5−	0.7+
1998 03 03	809	0.2−	0.2−	1998 03 25	566	0.3−	0.1−	1999 06 15	704	0.1+	0.4+
1998 03 03	809	0.8−	0.9−	1998 03 25	566	0.5−	0.4−				
1998 03 04	809	1.4+	0.4+	1999 05 18	704	0.4−	1.1+				

1977 TC = 2000 DF

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	93.85348	(2000.0)	
<i>n</i>	0.36924241	<i>ω</i>	0.90168
<i>a</i>	1.9242507	<i>Ω</i>	47.74750
<i>e</i>	0.0825154	<i>i</i>	22.84522
<i>P</i>	2.67	<i>H</i>	14.1

Residuals in seconds of arc

1977 10 09	809	2.1+	1.5−	1999 12 30	704	0.4−	0.6+	2000 02 25	704	0.4+	0.2+
1977 10 11	809	0.2+	0.4+	1999 12 30	704	0.7+	0.0	2000 02 25	704	0.2+	0.4−
1977 10 11	809	0.1+	0.2−	1999 12 30	704	0.3−	0.1+	2000 02 25	704	0.1−	0.1−
1977 10 11	809	0.7−	0.7−	1999 12 30	704	0.6−	0.3−	2000 02 25	704	0.0	0.2+
1977 10 12	809	0.4−	0.6+	1999 12 30	704	0.2−	0.0	2000 03 26	704	0.0	0.5+
1977 10 12	809	0.8+	1.0−	2000 02 16	704	0.3−	0.5−	2000 03 26	704	0.0	0.1−
1977 10 13	809	2.3−	0.9+	2000 02 16	704	0.3−	0.2−	2000 03 26	704	0.7+	0.5+
1977 10 13	809	1.1+	1.0−	2000 02 16	704	0.1+	0.2−	2000 03 26	704	0.1+	0.9−
1977 10 13	809	0.5+	0.2−	2000 02 16	704	0.1−	0.2+	2000 03 26	704	1.0−	0.1−
1977 10 13	809	0.5−	1.3+	2000 02 16	704	0.1+	0.3+				
1977 10 13	809	0.8−	1.3+	2000 02 25	704	0.7+	0.2+				

1978 VQ₆ = 1978 WC₁₂ = 2000 DD₇₂

Id. H. Oishi (d, JAM 2046), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	61.93246	(2000.0)	
<i>n</i>	0.19660906	<i>ω</i>	69.68951
<i>a</i>	2.9290966	<i>Ω</i>	27.98765
<i>e</i>	0.0695755	<i>i</i>	2.21649
<i>P</i>	5.01	<i>H</i>	14.6

Residuals in seconds of arc

1978 11 05	675	0.2+	0.6+	1998 11 24	704	(2.0−	0.6+)	2000 03 03	704	0.3−	0.4−
1978 11 06	675	0.4+	1.1−	2000 02 29	704	0.1+	0.1+	2000 03 11	704	0.5+	0.4−
1978 11 29	675	0.1−	0.6+	2000 02 29	704	0.3+	0.6+	2000 03 11	704	0.3−	0.5+
1978 11 30	675	0.4−	0.6−	2000 02 29	704	0.3+	0.7+	2000 03 11	704	0.2+	0.3+
1998 11 24	704	0.9+	1.4+	2000 03 03	704	0.0	0.5+	2000 03 11	704	0.1+	0.5−
1998 11 24	704	1.0−	0.9−	2000 03 03	704	0.3−	0.1−	2000 03 11	704	0.1+	0.1+
1998 11 24	704	(1.2+	3.0−)	2000 03 03	704	0.4−	0.3−				
1998 11 24	704	(3.3+	0.6−)	2000 03 03	704	0.3−	1.0−				

1978 VH₇ = 2000 EW₈₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	76.15272	(2000.0)	
<i>n</i>	0.28794023	<i>ω</i>	359.19968
<i>a</i>	2.2712650	<i>Ω</i>	66.76238
<i>e</i>	0.1791993	<i>i</i>	5.86905
<i>P</i>	3.42	<i>H</i>	15.0

Residuals in seconds of arc

1978 11 05	675	0.3+	0.3−	1995 12 21	566	0.1+	0.0	2000 03 05	704	0.2+	0.5+
1978 11 06	675	1.2−	0.5+	1995 12 21	566	0.1+	0.1+	2000 03 12	704	0.3+	0.0
1978 11 08	675	0.3+	0.1+	2000 03 05	704	0.1−	0.3−	2000 03 12	704	0.1−	0.1−

2000 APR. 18

M.P.C. 39931

1978 11 29	675	0.1+	0.0	2000 03 05	704	0.1-	0.1+	2000 03 12	704	0.3-	0.2+
1978 11 30	675	0.4+	0.4-	2000 03 05	704	0.1+	0.2-	2000 03 12	704	0.3-	0.4-
1995 12 21	566	0.2-	0.0	2000 03 05	704	0.2+	0.3+	2000 03 12	704	0.0	0.1-

1978 VA₉ = 2000 CV₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	27.90739	(2000.0)		P	Q		
<i>n</i>	0.23912434	ω	232.65044	-0.47243184	-0.87852854		
<i>a</i>	2.5707126	Ω	245.68379	+0.83118335	-0.41742312		
<i>e</i>	0.2487737	<i>i</i>	4.44841	+0.29315932	-0.23226179		
<i>P</i>	4.12	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1978 11 05	675	0.2-	0.6-	2000 02 02	704	0.0	0.0	2000 02 08	704	1.0+	0.3-
1978 11 06	675	0.0	0.3-	2000 02 02	704	0.9-	0.5-	2000 02 08	704	0.4-	0.1-
1978 11 07	675	0.1-	0.6+	2000 02 02	704	0.4+	0.5-	2000 03 08	704	0.3-	0.5-
1978 11 08	675	0.7+	0.6+	2000 02 02	704	0.9-	0.0	2000 03 08	704	0.5+	1.0+
1978 11 29	675	0.3-	0.4+	2000 02 08	704	0.0	0.6-	2000 03 08	704	0.3+	1.0+
1978 11 30	675	0.1-	0.4-	2000 02 08	704	0.3+	0.2+				

1979 MQ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	272.63655	(2000.0)		P	Q		
<i>n</i>	0.22449947	ω	344.91236	-0.05082996	+0.97665004		
<i>a</i>	2.6811792	Ω	281.83772	-0.89279717	-0.13810479		
<i>e</i>	0.1375228	<i>i</i>	12.31420	-0.44758187	+0.16456538		
<i>P</i>	4.39	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 06 23	413	0.3+	0.4+	2000 03 09	704	1.0+	0.4-	2000 04 04	699	0.7-	0.4+
1979 06 24	413	1.2+	0.7-	2000 03 09	704	0.8+	0.8+	2000 04 04	699	0.1-	0.6+
1979 06 25	413	0.5-	1.2+	2000 03 09	704	0.8+	0.2+	2000 04 07	704	0.2+	0.0
1979 07 24	675	0.2-	0.2+	2000 03 09	704	0.9+	1.0-	2000 04 07	704	0.2-	0.5+
1979 07 24	413	0.3-	1.2-	2000 03 09	704	1.6-	1.4-	2000 04 07	704	0.1+	0.0
1979 07 25	675	0.5+	0.5-	2000 04 04	699	0.0	0.3-	2000 04 07	704	0.7-	1.5+
1979 08 22	675	1.2-	0.8+	2000 04 04	699	0.6-	0.6-	2000 04 07	704	0.1-	0.0

1979 MF₃ = 2000 GX₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	246.97560	(2000.0)		P	Q		
<i>n</i>	0.22480005	ω	108.70605	+0.56551049	+0.82465665		
<i>a</i>	2.6787887	Ω	195.74860	-0.77212457	+0.52434842		
<i>e</i>	0.1477764	<i>i</i>	2.49229	-0.28986467	+0.21213238		
<i>P</i>	4.38	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 06 24	413	1.5+	0.7+	1979 07 27	675	1.2+	0.2+	2000 04 05	704	0.5+	0.3-
1979 06 25	413	1.1-	1.2+	1979 08 23	675	0.7-	0.8-	2000 04 05	704	0.0	0.5-
1979 06 29	413	2.1-	0.4-	2000 03 10	704	0.4+	0.9+	2000 04 05	704	0.1+	0.0
1979 07 24	675	(4.9+	0.8+)	2000 03 10	704	0.5+	0.2+	2000 04 06	704	0.4-	0.3-
1979 07 24	413	0.0	0.1+	2000 03 10	704	0.3-	0.2+	2000 04 06	704	0.5+	0.0
1979 07 25	675	1.3+	0.1+	2000 03 10	704	0.2-	1.5-	2000 04 06	704	0.5-	0.7+
1979 07 26	675	0.3-	1.3-	2000 04 05	704	0.7-	0.3+				

1979 MH₈ = 2000 GO₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	288.60219	(2000.0)		P	Q		
<i>n</i>	0.27644863	ω	102.34786	+0.30294054	+0.95300338		
<i>a</i>	2.3337792	Ω	185.29013	-0.88808323	+0.28100489		
<i>e</i>	0.2070974	<i>i</i>	2.11492	-0.34573863	+0.11322897		
<i>P</i>	3.57	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 06 24	413	1.8+	0.1+	1997 09 23	691	0.1-	0.1+	2000 04 05	704	0.7+	0.7+
1979 06 25	413	0.3-	1.2-	1997 09 23	691	0.4-	0.4+	2000 04 06	704	1.1-	0.5-
1979 06 29	413	1.5-	0.3-	2000 04 05	704	0.1+	0.1-	2000 04 06	704	0.6+	0.2+
1979 07 26	675	(2.8-	0.7+)	2000 04 05	704	0.1-	0.2-	2000 04 06	704	0.6-	0.2-
1979 07 27	675	0.1+	0.9+	2000 04 05	704	0.4+	0.1+	2000 04 06	704	0.1-	0.5+
1997 09 23	691	0.2+	0.4+	2000 04 05	704	0.2-	0.4+	2000 04 06	704	0.6+	0.1+

1979 SD = 2000 GZ₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	237.80887	(2000.0)		P	Q		
<i>n</i>	0.22188952	ω	286.98854	+0.90330171	+0.42604570		
<i>a</i>	2.7021629	Ω	47.82622	-0.36324758	+0.82195833		
<i>e</i>	0.0691079	<i>i</i>	3.89247	-0.22824814	+0.37798090		
<i>P</i>	4.44	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1979 09 16	801	0.1-	0.0	1979 09 21	675	0.2-	0.2-	2000 04 06	704	0.5+	0.1-
1979 09 17	801	0.4-	0.9-	2000 04 05	704	0.4+	0.1-	2000 04 06	704	0.2-	0.6+
1979 09 17	801	0.9-	0.3+	2000 04 05	704	0.1-	0.6+	2000 04 06	704	0.0	0.4-
1979 09 18	801	0.1+	0.5-	2000 04 05	704	0.1-	0.0	2000 04 06	704	0.1+	0.3-
1979 09 20	675	0.1+	0.5+	2000 04 05	704	0.2-	0.5+	2000 04 06	704	0.6-	0.7-

1980 FL₄ = 1956 XM = 1999 RR₁₄₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	147.83280	(2000.0)		P	Q		
<i>n</i>	0.22543811	ω	57.96655	-0.49157841	+0.87081103		
<i>a</i>	2.6737317	Ω	182.61292	-0.83795436	-0.47495362		
<i>e</i>	0.0697826	<i>i</i>	7.85438	-0.23702988	-0.12691418		
<i>P</i>	4.37	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1956 12 02	020	0.0	0.0	1980 03 23	809	1.7+	0.4-	1999 09 14	704	0.3-	0.1-
1980 03 16	809	0.4-	0.1+	1999 09 07	704	(5.0-	0.8-)	1999 09 14	704	0.7+	0.5+
1980 03 16	809	0.2+	0.1-	1999 09 07	704	(4.7-	0.5-)	1999 09 14	704	0.2-	0.5+
1980 03 16	809	0.4-	0.3-	1999 09 07	704	(5.1-	1.7-)	1999 09 14	704	0.3+	0.3-
1980 03 16	809	0.3-	0.3-	1999 09 07	704	(5.8-	0.8+)	1999 09 14	703	0.4-	1.1+
1980 03 17	809	0.4-	0.6+	1999 09 09	704	1.3-	0.9-	1999 09 14	703	0.2-	0.3-
1980 03 17	809	1.0-	0.9+	1999 09 09	704	(2.8-	1.0-)	1999 09 14	703	0.1-	0.1+
1980 03 17	809	0.3+	0.1+	1999 09 09	704	(2.3-	0.6+)	1999 09 14	703	0.8+	0.5-
1980 03 17	809	0.2+	0.4-	1999 09 14	704	0.7+	0.1+				

1981 EL₇ = 1983 VR = 2000 EU₁₀₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	58.02744	(2000.0)		P	Q		
<i>n</i>	0.25663798	ω	231.16799	+0.32465974	-0.94297748		
<i>a</i>	2.4523856	Ω	200.25812	+0.92014822	+0.33285601		
<i>e</i>	0.1936992	<i>i</i>	12.24101	+0.21891390	-0.00059404		
<i>P</i>	3.84	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 02 02	413	0.3-	0.2-	1998 08 27	704	0.6-	1.0-	2000 03 01	703	0.9+	0.6+
1981 03 01	413	1.3+	0.2-	2000 01 07	699	0.1-	0.6+	2000 03 01	703	0.4+	0.6+
1981 03 07	413	0.1+	0.2+	2000 01 07	699	0.3+	1.6+	2000 03 08	704	0.1+	0.0
1981 03 07	413	1.7+	1.7-	2000 01 07	699	0.3+	0.9-	2000 03 08	704	0.2-	0.7+
1981 03 11	413	2.3-	0.8+	2000 01 11	704	0.0	0.1-	2000 03 08	704	1.8-	0.2-
1981 03 15	413	0.9+	2.3-	2000 01 11	704	0.2-	0.3-	2000 03 08	704	0.4+	1.1-
1981 04 05	413	1.9-	0.8+	2000 01 11	704	0.1-	0.8-	2000 03 08	704	0.1-	1.4-
1981 04 12	413	1.5-	1.9+	2000 01 11	704	0.4-	0.1+	2000 03 12	704	0.2-	0.8+
1981 04 30	413	2.0+	1.9-	2000 01 11	704	0.2-	0.5-	2000 03 12	704	0.2+	0.2+
1981 05 02	413	0.3-	0.9-	2000 02 08	704	0.1-	0.0	2000 03 12	704	0.1-	0.4+
1983 11 09	801	0.1+	1.8-	2000 02 08	704	0.1+	0.5+	2000 03 12	704	0.2+	0.3+
1998 08 27	704	0.3+	0.9+	2000 02 08	704	1.1+	1.2+	2000 03 12	704	0.4+	0.7-
1998 08 27	704	0.1+	0.9+	2000 02 08	704	0.3+	0.8+	2000 04 07	608	0.0	0.1+

1998 08 27 704 0.0 1.0+ 2000 03 01 703 0.3- 0.9+ 2000 04 07 608 0.2- 0.4-
 1998 08 27 704 0.1- 0.4+ 2000 03 01 703 0.3- 0.9+ 2000 04 07 608 0.1- 0.2-

1981 EU₁₄ = 2000 CR₁₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	261.26812	ω	267.41916	-0.45775291	+0.88821477		
<i>a</i>	2.4743369	Ω	335.22029	-0.77403022	-0.41982439		
<i>e</i>	0.1314715	<i>i</i>	5.36682	-0.43742368	-0.18660657		
<i>P</i>	3.89	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 12	413	0.3+	0.6-	1981 04 08	413	1.6+	0.6-	2000 02 11	704	0.1-	0.5+
1981 02 12	413	0.7+	0.8-	1981 04 09	413	0.9-	0.2+	2000 02 11	704	0.5+	1.5+
1981 03 01	413	0.1-	0.8+	1981 04 09	413	0.1-	0.0	2000 02 11	049	0.4-	1.0-
1981 03 01	413	(3.0+	0.1-)	1981 05 01	413	0.5-	0.6-	2000 02 11	049	0.6-	1.2-
1981 03 06	413	0.5+	0.1+	1981 05 03	413	0.3-	1.2-	2000 02 11	049	0.9-	1.5-
1981 03 08	413	0.5-	0.8+	2000 01 31	704	0.6-	0.6+	2000 02 27	691	0.2+	0.3-
1981 03 08	413	2.2+	0.6+	2000 01 31	704	0.2-	0.2-	2000 02 27	691	0.2+	0.4-
1981 03 12	413	1.1-	0.8+	2000 01 31	704	0.8+	0.1+	2000 02 27	691	0.2+	0.3-
1981 04 08	413	1.4-	0.6+	2000 02 11	704	0.7+	1.5+				

1981 EE₁₇ = 2000 GG₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	2.37810	ω	21.55322	-0.95262716	+0.30192616		
<i>a</i>	1.9326491	Ω	175.51186	-0.29855649	-0.95130370		
<i>e</i>	0.1350197	<i>i</i>	27.91479	+0.05801314	+0.06214392		
<i>P</i>	2.69	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 02 02	413	1.6+	1.5+	1998 10 16	704	0.4-	1.3+	2000 04 04	704	0.0	0.1+
1981 03 01	413	0.0	2.0+	1998 10 16	704	1.0+	0.7+	2000 04 04	704	0.5+	0.2+
1981 03 01	413	0.3-	1.7-	1998 10 16	704	(4.1-	0.6+)	2000 04 05	704	0.3-	0.6-
1981 03 07	413	0.2-	1.8-	2000 04 03	704	0.0	0.2+	2000 04 05	704	0.4+	0.5+
1981 03 11	413	0.7+	1.1+	2000 04 03	704	0.3-	0.1-	2000 04 05	704	0.4-	0.3+
1981 03 11	413	0.3-	1.5-	2000 04 03	704	0.0	0.3+	2000 04 05	704	0.4-	0.0
1981 03 16	413	1.2-	1.5+	2000 04 04	704	0.5-	0.3+	2000 04 05	704	0.2+	0.0
1998 10 16	704	0.7-	0.0	2000 04 04	704	0.5+	0.1-				
1998 10 16	704	(1.1-	2.9+)	2000 04 04	704	0.4+	0.2+				

1981 EX₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	306.51174	ω	90.11653	-0.24397492	+0.96920643		
<i>a</i>	2.7992695	Ω	165.62884	-0.93467055	-0.22582066		
<i>e</i>	0.0910382	<i>i</i>	7.73214	-0.25858694	-0.09820350		
<i>P</i>	4.68	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 02 02	413	0.0	1.3-	1981 04 11	413	2.3+	1.9-	2000 04 04	704	(3.0-	0.4-)
1981 02 13	413	(4.7+	7.2-)	1981 05 02	413	0.1-	0.3+	2000 04 04	699	0.6+	0.4+
1981 03 02	413	0.8-	0.2+	1993 01 24	691	0.4-	1.3+	2000 04 04	704	1.1+	0.6-
1981 03 03	413	1.3-	1.6+	1993 01 24	691	(3.3+	5.6+)	2000 04 04	699	0.4-	0.5+
1981 03 07	413	(3.3-	2.1+)	1995 03 08	691	0.1+	0.3+	2000 04 04	704	1.0+	0.1-
1981 03 07	413	0.9+	0.2-	1995 03 08	691	0.2+	0.4+	2000 04 07	699	0.3-	0.1+
1981 03 11	413	(2.9-	2.4+)	1995 03 08	691	0.2+	0.5+	2000 04 07	699	0.1+	0.7+
1981 03 11	413	1.0+	0.5-	2000 03 14	703	0.4+	0.1-	2000 04 07	699	0.5+	0.6+
1981 03 16	413	1.8-	0.7+	2000 03 14	703	0.4-	0.9-	2000 04 07	699	0.4+	0.3+
1981 03 16	413	0.4+	0.1-	2000 03 14	703	0.4-	0.1+	2000 04 08	704	0.5-	0.1-
1981 03 29	413	1.8-	1.1+	2000 03 14	703	1.3-	0.5-	2000 04 08	704	0.2-	0.3-
1981 03 29	413	2.0+	1.1-	2000 04 04	699	0.3-	0.2+	2000 04 08	704	0.0	0.0
1981 04 08	413	1.9-	0.8+	2000 04 04	699	0.3-	0.4+	2000 04 08	704	0.0	0.1-
1981 04 08	413	0.9+	1.2-	2000 04 04	704	(2.4-	0.5+)	2000 04 08	704	0.1-	0.0

1981 EA₂₁ = 2000 GQ₂₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	13.53204	ω	217.90032	-0.99368693	-0.11174114		
<i>a</i>	2.8060783	Ω	315.68072	+0.10611485	-0.90717994		
<i>e</i>	0.0443554	<i>i</i>	0.82096	+0.03641328	-0.40563342		
<i>P</i>	4.70	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 09	413	0.4-	0.1+	2000 03 14	703	0.0	0.1-	2000 04 06	704	0.7+	0.6-
1981 02 13	413	0.3+	0.6+	2000 03 14	703	0.3-	1.0-	2000 04 06	699	0.3-	0.4+
1981 03 02	413	0.8-	0.5+	2000 04 03	699	0.3+	0.7-	2000 04 06	704	0.1+	0.3-
1981 03 03	413	(5.4+	2.5-)	2000 04 03	699	0.4-	0.1+	2000 04 07	704	0.6+	0.9+
1981 03 03	413	0.9+	0.1+	2000 04 03	699	0.0	0.0	2000 04 07	704	0.7+	0.9+
1981 03 07	413	1.5-	0.0	2000 04 03	699	0.2-	0.9+	2000 04 07	704	0.3+	0.7+
1981 03 07	413	0.4-	0.1-	2000 04 05	704	0.5+	0.3-	2000 04 07	704	0.1-	0.7+
1981 03 11	413	(3.8-	0.5+)	2000 04 05	704	0.1+	0.0	2000 04 07	704	1.1+	0.3+
1981 03 16	413	2.2+	0.3+	2000 04 05	704	0.1+	0.3+	2000 04 08	704	1.0-	0.2+
1981 03 29	413	(3.7+	1.4-)	2000 04 05	704	0.2+	0.2+	2000 04 08	704	0.2+	0.2-
1981 04 08	413	0.6+	0.7-	2000 04 05	704	0.1+	0.1+	2000 04 08	704	0.4-	0.3+
1981 04 11	413	0.3-	0.6-	2000 04 06	699	0.1-	0.6+	2000 04 08	704	0.4-	0.3+
1981 04 26	413	(1.9+	2.8-)	2000 04 06	704	0.6+	0.8-	2000 04 08	704	0.0	0.3-
1981 04 30	413	1.6-	0.4-	2000 04 06	704	0.1-	0.2+	2000 04 12	691	0.6-	0.9-
1981 05 02	413	0.3+	1.3-	2000 04 06	699	0.5-	0.0	2000 04 12	691	0.6-	0.8-
2000 03 14	703	1.2+	0.3+	2000 04 06	704	0.1+	0.0	2000 04 12	691	0.8-	0.7-
2000 03 14	703	0.0	0.1+	2000 04 06	699	0.4-	0.4+				

1981 EJ₂₆ = 2000 GO₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	243.22065	ω	297.81647	+0.89084078	+0.45404510		
<i>a</i>	0.31646707	Ω	35.18642	-0.40667045	+0.81232425		
<i>e</i>	2.1326374	<i>i</i>	1.55892	-0.20253853	+0.36602234		
<i>P</i>	0.1281627	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 02 09	413	0.1+	0.6-	1981 04 06	413	2.0-	0.1-	1999 01 16	704	0.3+	0.4+
1981 02 12	413	0.1-	0.3-	1981 04 06	413	0.8+	1.4-	1999 01 16	704	1.2-	1.1+
1981 02 13	413	1.2-	0.1+	1981 04 10	413	1.5-	0.4-	1999 01 16	704	0.7-	1.1+
1981 03 02	413	1.3-	0.1+	1981 04 26	413	(3.9+	1.9-)	2000 04 06	704	0.1-	0.7+
1981 03 02	413	0.6-	0.4-	1981 05 02	413	(4.4-	3.7+)	2000 04 06	704	0.4+	0.5+
1981 03 06	413	0.5-	0.5-	1981 05 02	413	1.4+	0.5-	2000 04 06	704	0.1-	0.5+
1981 03 06	413	(3.6+	1.7-)	1998 12 14	704	0.5+	0.0	2000 04 06	704	0.4-	0.7+
1981 03 11	413	0.1+	0.4+	1998 12 14	704	0.8-	1.5+	2000 04 06	704	0.3+	0.5+
1981 03 11	413	1.3+	0.4-	1998 12 14	704	1.9+	0.6+	2000 04 08	704	0.7+	0.5+
1981 03 15	413	(2.6-	0.5+)	1998 12 14	704	(2.3+	1.6+)	2000 04 08	704	1.0+	0.1-
1981 03 15	413	1.7+	1.3-	1998 12 14	704	0.8+	0.0	2000 04 08	704	0.5+	0.6+
1981 04 05	413	0.7-	0.2-	1999 01 16	704	0.0	0.4-	2000 04 08	704	0.2-	0.8+
1981 04 05	413	(5.3+	2.0-)	1999 01 16	704	0.9-	0.4-	2000 04 08	704	0.1-	1.9+

1981 EJ₃₁ = 2000 GT₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	336.85802	ω	43.95569	-0.84871705	+0.52851575		
<i>a</i>	0.26063709	Ω	167.90881	-0.50653401	-0.80222421		
<i>e</i>	2.4272354	<i>i</i>	5.12757	-0.15199561	-0.27768223		
<i>P</i>	0.1156676	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 09	413	0.6+	0.1+	1996 03 26	691	0.1+	0.8+	2000 04 04	704	0.3+	0.1-
1981 02 13	413	1.2+	0.1+	1996 03 26	691	0.4+	0.9+	2000 04 08	704	0.0	0.2+
1981 03 02	413	1.4-	0.1-	1996 03 26	691	0.2+	0.9+	2000 04 08	704	0.6-	0.1-
1981 03 02	413	0.3+	1.2-	2000 03 29	704	0.3-	0.2-	2000 04 08	704	0.2-	0.2-
1981 03 11	413	0.6-	0.3+	2000 03 29	704	0.2-	0.4-	2000 04 08	704	0.2+	0.2+

2000 APR. 18

1981 03 15	413	1.2-	1.0-	2000 03 29	704	0.2-	0.3-	2000 04 08	704	0.5+	0.4+
1981 03 15	413	0.5+	1.4-	2000 03 29	704	0.0	0.4-	2000 04 10	704	1.0+	0.6+
1981 04 06	413	0.1-	0.5+	2000 03 29	704	0.1-	1.1+	2000 04 10	704	0.2+	0.5+
1981 04 06	413	0.2+	0.8-	2000 04 04	704	(1.9+	2.1-)	2000 04 10	704	0.2+	1.5+
1981 04 26	413	0.1-	1.7-	2000 04 04	704	(1.9+	2.1-)	2000 04 10	704	(0.6-	2.5+)
1981 05 01	413	1.0-	0.5-	2000 04 04	704	0.2+	0.6+				

1981 EP₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	255.86235		(2000.0)	P		Q	
<i>n</i>	0.26092960	ω	292.78716		+0.67115234		+0.74100003
<i>a</i>	2.4254211	Ω	19.41971		-0.65388966		+0.60557192
<i>e</i>	0.2173969	<i>i</i>	3.75245		-0.34926045		+0.29017511
<i>P</i>	3.78	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1981 02 09	413	1.4+	0.5+	2000 04 03	699	0.6-	0.1+	2000 04 06	704	0.6+	0.8+
1981 02 13	413	0.5+	0.9+	2000 04 05	691	0.1-	0.1-	2000 04 06	699	0.3-	0.5+
1981 03 02	413	0.7-	1.3-	2000 04 05	704	0.4+	0.5+	2000 04 06	704	1.0+	0.2+
1981 03 11	413	0.3-	0.8-	2000 04 05	691	0.1+	0.1-	2000 04 06	704	0.8+	0.0
1981 03 15	413	1.5-	0.3-	2000 04 05	704	0.4+	0.3+	2000 04 06	699	0.6+	1.0+
1981 04 05	413	0.8+	0.5+	2000 04 05	691	0.0	0.1-	2000 04 06	704	0.2+	0.8+
1981 04 05	413	(6.4+	2.0-)	2000 04 05	704	0.3+	0.4+	2000 04 06	699	0.0	0.3+
1981 04 26	413	(5.4+	2.4-)	2000 04 05	704	0.5+	0.2+	2000 04 06	704	0.2+	0.1-
1981 05 01	413	0.7-	0.9-	2000 04 05	691	0.6-	0.1+	2000 04 07	691	0.5-	1.1-
2000 03 09	704	0.1-	0.1+	2000 04 05	704	0.5+	0.4+	2000 04 07	691	0.3-	0.7-
2000 03 09	704	0.1+	0.3+	2000 04 05	691	0.6-	0.4-	2000 04 07	691	0.4-	0.9-
2000 03 09	704	(0.7-	2.3+)	2000 04 05	691	0.7-	0.3-	2000 04 10	704	0.2-	1.2-
2000 03 29	691	0.1+	0.3+	2000 04 06	704	0.3-	0.6+	2000 04 10	704	1.5-	0.6-
2000 03 29	691	0.0	0.4+	2000 04 06	704	0.6+	0.2-	2000 04 10	704	(2.3-	0.5+)
2000 03 29	691	0.1+	0.4+	2000 04 06	704	0.0	0.4-	2000 04 11	691	0.2-	0.4-
2000 04 03	699	0.5-	0.8+	2000 04 06	704	1.4+	0.9-	2000 04 11	691	0.1-	0.6-
2000 04 03	699	0.9-	0.3+	2000 04 06	704	1.5+	0.2+	2000 04 11	691	0.1-	0.5-
2000 04 03	699	1.0-	0.7+	2000 04 06	699	0.3+	0.4+				

1981 EE₃₂ = 2000 GN₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	22.62522		(2000.0)	P		Q	
<i>n</i>	0.26081076	ω	290.34231		-0.94723775		-0.30983267
<i>a</i>	2.4261578	Ω	231.69878		+0.31899458		-0.88616562
<i>e</i>	0.0643369	<i>i</i>	6.00690		+0.03135451		-0.34454927
<i>P</i>	3.78	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 09	413	0.8+	0.3-	1998 11 18	704	0.0	0.0	2000 03 27	699	1.2+	0.1+
1981 02 12	413	1.6-	0.4+	1998 11 18	704	0.6-	1.1-	2000 04 07	704	0.3+	0.3+
1981 03 06	413	(3.8+	1.7-)	1998 11 18	704	0.1+	0.0	2000 04 07	704	0.6-	0.3+
1981 03 06	413	0.7-	0.2+	1998 11 18	704	1.3+	1.5+	2000 04 07	704	0.6+	0.5+
1981 03 08	413	0.7-	0.5-	1998 12 08	691	0.8-	0.4-	2000 04 07	704	0.2+	0.7+
1981 03 08	413	0.6+	0.0	1998 12 08	691	1.1-	0.2+	2000 04 08	704	1.3-	0.4-
1981 03 12	413	1.3-	0.2+	1998 12 08	691	0.8-	0.4-	2000 04 08	704	0.1-	1.0-
1981 03 12	413	0.9+	0.5-	1998 12 15	910	1.1+	0.1+	2000 04 08	704	0.1+	1.1-
1981 04 09	413	0.3-	0.4+	1998 12 15	910	1.1+	0.0	2000 04 08	704	0.4-	1.2-
1981 04 09	413	1.6+	0.9-	1998 12 15	910	1.2+	0.1+	2000 04 10	704	0.7-	0.6+
1981 05 01	413	0.5+	0.0	2000 03 27	699	0.7+	0.7+	2000 04 10	704	0.5-	0.8+
1998 11 14	691	1.4-	0.0	2000 03 27	699	0.2+	0.2+	2000 04 10	704	0.4+	0.1-
1998 11 14	691	0.1+	0.4+	2000 03 27	699	0.6+	1.3+	2000 04 10	704	0.1-	0.5-

1981 EF₃₂ = 2000 EJ₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	267.88641		(2000.0)	P		Q	
<i>n</i>	0.25858125	ω	354.37121		+0.06870624		+0.98873677
<i>a</i>	2.4400836	Ω	279.51775		-0.90997362		+0.00747898
<i>e</i>	0.0685795	<i>i</i>	7.74812		-0.40893454		+0.14947800
<i>P</i>	3.81	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

M.P.C. 39933

Residuals in seconds of arc

1981 02 08	413	0.3-	0.2+	1981 04 09	413	1.9+	0.2-	2000 03 12	699	0.2+	0.4+
1981 03 06	413	(2.8-	0.1+)	1981 05 01	413	0.4+	1.6-	2000 03 12	699	0.2-	0.3+
1981 03 06	413	0.8+	0.9-	1981 05 02	413	0.6-	0.6+	2000 03 12	699	0.3+	0.5-
1981 03 08	413	1.0-	0.9+	2000 03 09	704	0.4+	0.0	2000 04 07	704	0.7+	0.5+
1981 03 08	413	(3.0+	0.8-)	2000 03 09	704	0.5-	1.0-	2000 04 07	704	0.3+	0.0
1981 03 12	413	0.0	0.7-	2000 03 09	704	0.2+	0.4-	2000 04 07	704	0.3-	0.5+
1981 03 12	413	0.7+	0.4+	2000 03 09	704	0.3-	0.7+	2000 04 07	704	0.5-	0.2+
1981 04 08	413	0.3-	0.2-	2000 03 09	704	0.3-	0.5-	2000 04 07	704	0.4+	0.1+
1981 04 09	413	1.9-	1.1+	2000 03 12	699	0.1-	0.2-				

1981 EF₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	324.97708		(2000.0)	P		Q	
<i>n</i>	0.26105187	ω	22.96210		-0.60287958		+0.79563235
<i>a</i>	2.4246637	Ω	210.05980		-0.74911538		-0.59004019
<i>e</i>	0.1775560	<i>i</i>	6.78816		-0.27452205		-0.13719231
<i>P</i>	3.78	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 02	413	2.4+	0.4+	1996 03 13	691	0.3-	0.2-	2000 04 08	704	0.3+	0.3+
1981 03 01	413	2.1+	0.1+	1996 03 13	691	0.3-	0.4-	2000 04 08	704	0.3+	0.0
1981 03 07	413	1.1-	1.1+	1996 03 13	691	0.2-	0.3-	2000 04 08	704	0.0	0.9+
1981 03 11	413	(3.8+	4.4-)	2000 04 07	704	0.3+	0.4+	2000 04 11	608	0.3+	0.4-
1981 03 11	413	1.3-	1.0+	2000 04 07	704	0.4+	0.1+	2000 04 11	608	0.1+	0.5-
1981 03 15	413	0.0	0.9-	2000 04 07	704	0.1+	0.7+	2000 04 11	608	0.2+	0.5-
1981 04 30	413	1.2-	2.0-	2000 04 07	704	0.1-	0.8+				
1981 05 02	413	1.4-	2.3-	2000 04 07	704	0.7-	1.1+				

1981 EN₃₉ = 2000 GE₁₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Marsden			
<i>M</i>	298.62532		(2000.0)	P		Q	
<i>n</i>	0.21257934	ω	85.31421		+0.06762170		+0.99767985
<i>a</i>	2.7804943	Ω	188.57514		-0.93507499		+0.06061739
<i>e</i>	0.0538214	<i>i</i>	3.03235		-0.34793976		+0.03099098
<i>P</i>	4.64	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1981 02 09	413	0.2+	0.8+	1981 03 11	413	0.6+	0.3+	2000 04 11	684	0.0	0.1+
1981 03 02	413	(11.5+	4.7-)	1981 03 29	413	1.7-	1.2+	2000 04 12	684	0.1+	0.2+
1981 03 03	413	0.6+	1.3-	1981 04 30	413	0.3-	0.3-	2000 04 12	684	0.4-	0.2-
1981 03 03	413	0.5+	1.1-	1981 05 02	413	0.1+	1.1-	2000 04 12	684	0.1+	0.1-
1981 03 07	413	(4.3+	3.7-)	1981 05 03	413	0.1+	0.0				
1981 03 11	413	0.2-	1.1+	2000 04 11	684	0.3+	0.3+				

1981 EQ₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	144.79634		(2000.0)	P		Q	
<i>n</i>	0.20987743	ω	62.85404		+0.75064668		-0.65995747
<i>a</i>	2.8043070	Ω	338.39595		+0.57199068		+0.67290644
<i>e</i>	0.09999950	<i>i</i>	4.89159		+0.33069053		+0.33414527
<i>P</i>	4.70	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 12	413	0.4-	0.6+	1981 05 03	413	0.7+	1.6-	1999 01 10	699	0.6+	0.7+
1981 02 12	413	0.9-	0.8-	1981 12 14	699	0.0	0.8-	1999 01 10	699	0.2-	1.0+
1981 02 13	413	0.9+	0.5+	1998 12 14	699	0.0	1.4-	2000 04 07	704	0.3-	0.8+
1981 03 02	413	0.4-	0.5-	1998 12 14	699	0.3-	0.0	2000 04 07	704	0.1+	0.2+
1981 03 06	413	(5.7-	4.6+)	1998 12 17	704	0.8+	1.8+	2000 04 07	704	0.2+	0.9+
1981 03 11	413	1.1-	0.1+	1998 12 17	704	1.0-	0.7-	2000 04 07	704	0.8+	1.0+
1981 03 11	413	1.4-	0.9-	1998 12 17	704	0.0	0.3-	2000 04 07	704	0.3+	0.6+
1981 03 15	413	0.9+	0.3+	1998 12 17	704	0.4-	1.0-	2000 04 08	704	0.0	0.3-
1981 04 05	413	1.1-	0.5+	1998 12 17	704	0.4+	0.5+	2000 04 08	704	0.1-	0.2+
1981 05 01	413	1.0+	2.2-	1999 01 10	699	0.2+	1.1+	2000 04 08	704	0.4+	0.0

1981 EQ₄₆ = 2000 GE₃₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21075480	ω	231.86853	+0.80003744	−0.59966635		
<i>a</i>	2.7965187	Ω	164.94848	+0.57027888	+0.75056025		
<i>e</i>	0.1367031	<i>i</i>	4.07385	+0.18633865	+0.27759606		
<i>P</i>	4.68	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 02 13	413	1.3−	1.1−	1997 08 30	566	0.2−	0.6+	2000 04 06	704	1.3−	0.1−
1981 03 02	413	1.2+	1.0+	1997 08 30	566	0.1−	0.3+	2000 04 06	699	0.5−	1.8+
1981 03 02	413	0.5+	0.9−	1997 08 30	566	0.1+	0.2−	2000 04 06	704	0.1+	0.3−
1981 03 07	413	1.0+	0.7+	2000 04 05	704	0.9+	0.3−	2000 04 06	704	0.1+	0.3+
1981 03 11	413	1.3+	1.0+	2000 04 05	704	0.3+	0.6−	2000 04 06	699	0.5+	0.4+
1981 04 08	413	1.7−	1.4+	2000 04 05	704	0.4+	0.5−	2000 04 06	704	0.1−	0.3−
1981 04 08	413	(3.2+	0.0)	2000 04 05	704	0.8−	1.1−	2000 04 06	699	0.4+	0.0
1981 05 02	413	0.9−	0.6−	2000 04 05	704	0.3−	0.5−	2000 04 06	704	0.7−	0.5+
1981 05 03	413	0.3+	0.2−	2000 04 06	699	0.8+	0.1+				

1981 JR₁ = 2000 CH₉₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25770334	ω	225.13261	−0.29115209	+0.94969477		
<i>a</i>	2.4456221	Ω	28.53966	−0.79549639	−0.17334236		
<i>e</i>	0.2104449	<i>i</i>	13.97380	−0.53142822	−0.26082995		
<i>P</i>	3.82	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 05 09	808	0.2−	0.6−	1998 12 14	704	0.9+	0.9+	2000 04 05	704	0.7+	1.4+
1981 05 09	808	0.1+	0.1+	1998 12 14	704	0.3−	0.6+	2000 04 05	704	0.8+	1.6+
1981 05 14	808	0.3−	0.0	1998 12 14	704	0.5+	0.3+	2000 04 06	704	0.1−	0.1+
1981 05 14	808	0.3−	0.8+	1998 12 14	704	(0.7+	2.9+)	2000 04 06	704	0.2−	0.1−
1981 05 15	808	1.3+	0.9+	2000 02 08	704	0.1−	0.8+	2000 04 06	704	0.1−	0.0
1981 05 15	808	0.4+	1.4+	2000 02 08	704	0.1−	0.3−	2000 04 06	704	0.4−	0.2−
1981 05 28	808	0.1−	0.9−	2000 02 08	704	0.3+	0.2+	2000 04 06	704	0.4−	0.3−
1981 05 28	808	(1.0−	4.1+)	2000 02 11	704	0.3+	0.3−	2000 04 07	704	0.1+	0.2+
1996 04 23	566	0.7−	0.1+	2000 02 11	704	1.0−	0.8+	2000 04 07	704	0.3+	0.1+
1996 04 23	566	1.0−	0.7−	2000 02 11	704	0.3−	0.2+	2000 04 07	704	0.1−	0.4−
1996 04 23	566	0.5−	0.4+	2000 04 02	691	0.5−	1.7−	2000 04 07	704	0.0	0.3−
1997 10 28	704	(2.6+	3.9−)	2000 04 02	691	0.1−	1.4−	2000 04 07	704	0.2−	0.8−
1997 10 28	704	1.4+	1.0−	2000 04 02	691	0.3−	0.9−	2000 04 13	608	0.2+	0.7−
1997 10 28	704	(3.3+	2.8−)	2000 04 05	704	0.3−	0.3+	2000 04 13	608	0.0	1.0−
1997 10 28	704	0.3−	1.8−	2000 04 05	704	0.2+	0.6+	2000 04 13	608	0.0	0.9−
1998 12 14	704	0.1+	0.8−	2000 04 05	704	0.2+	1.1+				

1981 QP₂ = 1991 RC₃₈ = 1991 SA₅ = 2000 GL₈₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29860952	ω	219.87822	+0.99659730	−0.05210407		
<i>a</i>	2.2168363	Ω	142.95899	+0.06980746	+0.94555420		
<i>e</i>	0.1817109	<i>i</i>	6.08613	−0.04382636	+0.32126689		
<i>P</i>	3.30	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 08 23	809	1.9−	1.7−	1981 09 01	809	1.1+	0.2+	1981 09 06	809	0.2−	1.4+
1981 08 23	809	2.3−	2.2−	1981 09 01	675	1.0−	0.5+	1981 09 07	809	1.1−	1.4+
1981 08 23	809	2.2−	1.7−	1981 09 02	809	1.0−	1.0−	1981 09 07	809	0.8−	1.1+
1981 08 24	809	0.5+	0.5−	1981 09 02	809	0.8−	0.9−	1981 09 07	809	0.5−	0.9+
1981 08 24	809	0.5+	0.1−	1981 09 02	809	0.5−	1.3−	1981 09 07	809	0.3−	0.3−
1981 08 24	809	1.4+	0.2+	1981 09 02	809	0.8−	0.3−	1981 09 07	809	0.2−	0.1−
1981 08 25	809	0.9−	0.8−	1981 09 02	809	0.4−	0.1+	1981 09 07	809	0.3−	0.1−

1981 08 25	809	1.6−	0.9−	1981 09 02	809	0.1+	0.5+	1991 09 15	675	(5.7−	12.7+)
1981 08 25	809	1.0−	1.2−	1981 09 02	675	0.8−	0.3+	1991 09 15	675	0.3+	1.9−
1981 08 26	809	0.2−	1.9−	1981 09 03	809	0.1+	0.4+	1991 09 17	675	(1.5+	2.8−)
1981 08 26	809	0.1+	1.2−	1981 09 03	809	0.5+	0.3+	1991 09 17	675	0.8+	1.3−
1981 08 26	809	0.5+	0.4−	1981 09 03	809	0.9+	0.1+	2000 04 04	699	0.3−	0.0
1981 08 27	809	0.2−	1.2−	1981 09 05	809	1.2+	1.3+	2000 04 04	704	1.1+	1.0−
1981 08 27	809	0.6−	1.7−	1981 09 05	809	1.3+	1.1+	2000 04 04	699	0.4−	0.1−
1981 08 27	809	0.1−	2.3−	1981 09 05	809	1.4+	0.8+	2000 04 04	699	1.0+	0.1+
1981 08 27	809	0.8−	0.8+	1981 09 05	809	0.3−	1.6+	2000 04 04	704	1.0+	0.3−
1981 08 27	809	0.1+	1.0+	1981 09 05	809	0.4+	1.5+	2000 04 04	699	0.4+	0.1+
1981 08 27	809	0.5−	0.1+	1981 09 05	809	1.2+	1.5+	2000 04 04	704	1.2+	0.1−
1981 08 28	809	1.1−	0.8−	1981 09 05	809	0.2+	1.0+	2000 04 07	699	0.2−	0.7+
1981 08 28	809	0.3−	1.3−	1981 09 05	809	0.1−	0.8+	2000 04 07	699	1.1+	0.5+
1981 08 28	809	(0.7−	2.5−)	1981 09 05	809	0.2−	0.6+	2000 04 07	699	0.2+	0.8+
1981 08 28	809	0.6+	0.3−	1981 09 05	809	2.1+	0.5+	2000 04 07	699	0.1+	0.1−
1981 08 28	809	0.2+	0.2−	1981 09 05	809	1.5+	0.7+	2000 04 08	704	1.6−	0.4−
1981 08 28	809	0.1+	0.1−	1981 09 05	809	1.5+	0.4−	2000 04 08	704	0.6−	0.2+
1981 09 01	809	1.4+	0.3+	1981 09 06	809	0.2−	0.7+	2000 04 08	704	0.6−	0.9−
1981 09 01	809	1.8+	0.7+	1981 09 06	809	0.1+	1.1+	2000 04 08	704	1.0−	0.0
1981 09 01	809	2.0+	0.3+	1981 09 06	809	0.6+	1.3+	2000 04 08	704	1.2−	0.7+
1981 09 01	809	0.3+	0.7+	1981 09 06	809	0.9−	0.9+				
1981 09 01	809	0.7+	0.1+	1981 09 06	809	0.6−	0.9+				

1981 UW₂₃ = 1981 WS₃ = 2000 ES₁₀₃Id. G. V. Williams (d, *MPC* 20484; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23626358	ω	282.18780	+0.92742760	+0.31056698		
<i>a</i>	2.5914223	Ω	60.04217	−0.17334697	+0.85066998		
<i>e</i>	0.2048640	<i>i</i>	13.91755	−0.33140438	+0.42415650		
<i>P</i>	4.17	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 10 24	675	0.0	0.3−	2000 02 03	704	0.4+	0.3+	2000 03 15	704	0.2−	0.1+
1981 10 25	675	0.1+	0.4+	2000 02 03	704	0.6+	0.8+	2000 03 26	699	0.3−	0.1−
1981 11 24	033	0.1+	0.0	2000 02 03	704	0.3+	0.5+	2000 03 26	699	0.0	0.2+
1981 11 24	033	0.6−	0.6+	2000 02 03	704	0.5−	0.9+	2000 03 26	699	0.1+	0.0
1998 12 17	704	1.2−	0.1+	2000 03 04	704	0.2+	0.1+	2000 03 26	699	0.1+	0.2+
1998 12 17	704	0.1+	0.2−	2000 03 04	704	0.4−	0.3+	2000 04 02	704	0.0	0.1+
1998 12 17	704	(0.2+	3.4−)	2000 03 04	704	0.2−	0.3−	2000 04 02	704	0.2+	0.3−
1998 12 17	704	1.3+	1.3−	2000 03 04	704	0.2−	0.4−	2000 04 02	704	0.1+	0.1+
1998 12 17	704	0.7−	0.2−	2000 03 04	704	0.0	0.6−	2000 04 02	704	0.1+	1.0+
1999 01 16	704	1.3+	0.9+	2000 03 12	704	0.1−	0.0	2000 04 02	704	0.1+	0.4+
1999 01 16	704	1.4+	0.8+	2000 03 12	704	0.0	0.2−	2000 04 08	704	0.3+	0.1−
1999 01 16	704	0.6−	0.8−	2000 03 12	704	0.1+	0.3−	2000 04 08	704	0.2−	0.0
1999 01 16	704	1.1−	0.0	2000 03 12	704	0.2+	0.1−	2000 04 08	704	0.0	0.1−
1999 01 16	704	0.2−	0.2−	2000 03 12	704	0.1+	0.1−	2000 04 08	704	0.1+	0.2−
2000 01 06	704	(2.1+	1.1−)	2000 03 15	704	0.6−	0.1−	2000 04 08	704	0.1−	0.6+
2000 01 06	704	0.2+	0.1−	2000 03 15	704	0.2−	0.6−	2000 04 10	608	0.2+	0.4−
2000 01 06	704	0.7+	0.0	2000 03 15	704	0.6−	0.5−	2000 04 10	608	0.4+	0.5−
2000 02 03	704	0.0	0.6+	2000 03 15	704	0.5−	0.1−	2000 04 10	608	0.3+	0.7−

1981 WL₂ = 2000 GA₁₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	171.90339		(2000.0)	P	Q
n	0.39956206	ω	339.48932	+0.89652601	−0.31656500
a	1.8256319	Ω	43.21631	+0.44258101	+0.60997887
e	0.0926049	i	26.90719	+0.01905694	+0.72643814
P	2.47	H	15.2	G 0.15	U 4

2000 APR. 18

M.P.C. 39935

1981 12 03	675	0.1+	0.7-	2000 04 12	704	1.3-	0.8-	2000 04 14	704	0.1-	0.6-
1981 12 03	675	0.1+	0.7-	2000 04 12	704	0.3-	0.8-	2000 04 14	704	0.4+	0.1+
1981 12 03	675	1.7-	0.5+	2000 04 12	704	0.7-	0.1-	2000 04 14	704	1.0+	0.7+
1981 12 03	675	0.0	0.1-	2000 04 12	704	0.1+	0.6+	2000 04 14	704	0.1+	0.4+
1981 12 07	675	1.2+	0.4-	2000 04 12	608	0.1-	0.5-				
1981 12 23	675	0.4+	0.8+	2000 04 12	608	0.3+	0.4-				

1982 KA

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26614717	ω	174.93444	-0.19657214	+0.88646170		
<i>a</i>	2.3936178	Ω	83.25021	-0.91375002	-0.01066507		
<i>e</i>	0.2229404	<i>i</i>	24.95493	-0.35555632	-0.46267907		
<i>P</i>	3.70	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1982 05 16	046	(3.8— 5.3—)	1999 12 07	703	0.2+	1.1+	2000 03 15	704	0.0	0.8+
1982 05 16	046	2.3— 1.8—	1999 12 07	703	0.4— 0.2—	2000 03 26	704	0.5+	0.3—	
1982 05 17	046	(2.5— 3.5—)	1999 12 07	703	0.2— 0.5+	2000 03 26	704	0.1+	0.1—	
1982 05 17	046	1.8+ 0.2+	1999 12 07	703	0.2+ 0.5+	2000 03 26	704	0.3— 0.1—		
1982 05 22	381	0.9+ 0.6+	2000 01 02	704	1.3+ 0.3—	2000 03 26	704	0.3+ 0.1+		
1982 05 22	381	1.0+ 0.6+	2000 01 02	704	0.3+ 1.2—	2000 03 26	704	1.6— 1.0+		
1982 05 23	381	1.2— 0.7+	2000 01 02	704	0.3— 0.9—	2000 04 10	699	0.2— 0.1+		
1982 05 23	381	0.3+ 0.6+	2000 01 02	704	0.1+ 0.8—	2000 04 10	699	0.4— 0.2—		
1982 05 24	381	0.1— 0.8+	2000 01 02	704	0.7+ 1.8—	2000 04 10	699	0.8— 0.4+		
1982 05 28	372	1.2+ 1.7—	2000 01 27	704	0.6— 0.2+	2000 04 10	699	0.1— 0.1+		
1982 05 28	372	0.1+ 0.6—	2000 01 27	704	0.4— 0.1+	2000 04 13	699	0.6+ 0.2+		
1982 06 14	372	1.2— 0.3—	2000 01 27	704	0.4+ 0.5+	2000 04 13	699	0.4— 0.2—		
1982 06 14	372	0.8+ 0.3—	2000 03 15	704	0.1+ 0.2+	2000 04 13	699	0.3+ 0.2—		
1982 06 27	372	1.7— 1.0+	2000 03 15	704	0.4— 0.5+	2000 04 13	699	0.0 0.2—		

1984 SJ₁ = 1994 RF₁₄ = 2000 CX₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29122993	ω	97.89299	+0.53072774	+0.84688230		
<i>a</i>	2.2541287	Ω	204.25301	-0.80615530	+0.49223836		
<i>e</i>	0.2133363	<i>i</i>	4.66994	-0.26161364	+0.20122563		
<i>P</i>	3.38	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 09 27	046	(4.8- 3.4-)	2000 02 02	704	0.3+	0.9+	2000 04 02	046	0.1-	0.2-
1984 09 27	046	0.5+ 0.5+	2000 02 02	704	0.3-	0.2-	2000 04 02	046	0.1-	0.3+
1984 09 29	046	1.5- 0.5+	2000 02 07	704	(0.0 2.6-)		2000 04 02	046	0.0	0.1+
1984 09 29	046	0.6+ 1.1+	2000 02 07	704	(0.2- 2.5-)		2000 04 05	704	0.1-	0.1+
1984 09 30	046	0.9+ 1.0-	2000 02 07	704	(2.3- 0.5-)		2000 04 05	704	0.2-	0.1+
1984 09 30	046	0.6- 0.4-	2000 02 07	704	0.3-	1.7-	2000 04 05	704	0.5-	0.4-
1994 09 03	675	0.3- 1.6+	2000 02 07	704	(1.3- 2.2-)		2000 04 05	704	0.1+	0.6+
1994 09 03	675	0.7+ 1.2+	2000 02 08	704	0.2-	0.1+	2000 04 05	704	0.2-	0.0
1994 09 06	675	1.3- 1.2-	2000 02 08	704	0.3-	0.0	2000 04 06	046	0.0	0.2-
1994 09 06	675	0.4+ 0.2+	2000 02 08	704	0.6-	0.4-	2000 04 06	046	0.8-	0.1-
1998 12 25	910	0.1- 0.1+	2000 02 08	704	0.1-	0.5-	2000 04 06	046	0.7-	0.2-
1998 12 26	910	0.0 0.2+	2000 02 08	704	0.3-	0.2+	2000 04 08	704	0.4+	0.3+
1998 12 26	910	0.1- 0.3+	2000 03 08	704	1.4+	1.0+	2000 04 08	704	0.2-	0.1+
2000 02 02	704	0.6- 0.1+	2000 03 08	704	1.5+	1.4+	2000 04 08	704	1.2+	0.1+
2000 02 02	704	0.1- 0.4+	2000 03 08	704	(2.2+ 1.1+)		2000 04 08	704	1.4-	0.1-
2000 02 02	704	1.4+ 0.1+	2000 03 08	704	0.9+	1.3+	2000 04 08	704	0.5+	0.2-

1985 QJ₅ = 1999 CZ₉₄ = 2000 FO₂₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17320559	ω	8.36151	+0.99846770	-0.05113091		
<i>a</i>	3.1873379	Ω	354.43665	+0.02895962	+0.80868897		
<i>e</i>	0.1932287	<i>i</i>	12.60898	+0.04715488	+0.58601006		
<i>P</i>	5.69	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1985 08 23	095	0.1-	1.3-	1999 02 13	704	1.7-	1.3-	2000 04 02	699	1.3+	0.5-
1985 09 15	095	0.5+	1.6-	1999 02 13	704	0.4-	1.3+	2000 04 02	699	0.9+	0.1-
1985 09 20	095	0.3+	2.0+	1999 02 13	704	(3.3-	0.3-)	2000 04 02	699	0.1+	1.0+
1999 02 10	704	0.2+	1.1-	2000 03 27	699	1.0-	0.3-	2000 04 06	699	0.5+	0.3-
1999 02 10	704	1.0-	0.6+	2000 03 27	699	0.5+	0.1+	2000 04 06	699	0.0	0.4+
1999 02 10	704	1.0+	0.0	2000 03 27	699	0.8-	0.3+	2000 04 06	699	0.6-	0.2+
1999 02 10	704	0.1+	0.3-	2000 03 27	699	1.7-	0.5-	2000 04 06	699	0.3-	0.8-
1999 02 13	704	1.4+	0.0	2000 04 02	699	0.6+	0.3-				

1985 SC₁ = 1931 RB = 1969 TV₄ = 2000 GO₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18300043	ω	306.99891	+0.75008006	+0.66129615		
<i>a</i>	3.0725667	Ω	11.60998	-0.59308774	+0.67809939		
<i>e</i>	0.2636933	<i>i</i>	2.33635	-0.29262065	+0.32073136		
<i>P</i>	5.39	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc (or two decimals in units of degrees)

1931 09 08	024	(0.00+ 0.10-)	1985 09 18	809	0.2-	0.1+	1999 04 12	691	0.1-	0.1-
1931 09 14	024	(4.4- 5.2+)	1985 09 18	809	0.0	0.1+	1999 04 12	691	0.2-	0.0
1931 09 16	024	0.1- 0.2+	1985 09 18	809	0.0	0.1-	1999 04 12	691	0.4-	0.2+
1969 10 14	095	(3.5+ 2.6+)	1985 09 18	026	0.9-	0.4-	2000 04 05	704	0.2-	0.1-
1985 09 07	809	0.7+ 0.3-	1985 09 19	026	2.0-	0.0	2000 04 05	704	0.2+	0.6-
1985 09 07	809	0.8+ 0.3-	1985 09 19	809	0.7-	0.4-	2000 04 05	704	0.4+	0.6-
1985 09 07	809	0.7+ 0.5-	1985 09 19	809	0.6-	0.5-	2000 04 05	704	1.0+	0.8-
1985 09 08	809	0.1- 0.3+	1985 09 19	809	0.7-	0.5-	2000 04 06	704	0.2+	0.2-
1985 09 08	809	0.0 0.4+	1985 09 20	026	(4.2+ 1.8+)		2000 04 06	704	0.3-	0.1+
1985 09 08	809	0.2+ 0.4+	1985 09 20	809	1.2-	0.4-	2000 04 06	704	0.0	0.2+
1985 09 11	809	0.2- 0.6+	1985 09 20	809	1.0-	0.2-	2000 04 06	704	0.0	0.2-
1985 09 11	809	0.1+ 0.6+	1985 09 20	809	0.9-	0.4-	2000 04 06	704	0.3-	0.0
1985 09 11	809	0.5+ 0.6+	1985 09 20	809	0.4-	1.2-	2000 04 07	704	0.2+	0.1+
1985 09 14	809	0.1+ 0.5+	1985 09 20	809	0.2-	1.1-	2000 04 07	704	0.3+	0.2+
1985 09 14	809	0.6+ 0.6+	1985 09 20	809	0.1-	1.1-	2000 04 07	704	1.3-	0.8+
1985 09 14	809	0.8+ 0.5+	1985 09 21	026	2.0-	1.4-	2000 04 07	704	0.0	0.0
1985 09 15	809	0.6- 0.6+	1985 09 22	026	(3.1+ 0.8+)		2000 04 07	704	0.3+	0.7-
1985 09 15	809	0.4- 0.6+	1985 09 22	809	0.1+	0.2-	2000 04 08	704	0.2+	0.1+
1985 09 15	809	0.1- 0.6+	1985 09 22	809	0.2+	0.1-	2000 04 08	704	0.1+	0.8+
1985 09 16	809	1.1+ 1.6+	1985 09 22	026	2.2+	0.6-	2000 04 08	704	0.0	1.2+
1985 09 16	809	1.3+ 1.6+	1999 02 23	699	0.0	1.0+	2000 04 08	704	0.4-	0.7+
1985 09 16	809	1.6+ 1.7+	1999 02 23	699	0.8+	0.8+	2000 04 08	704	0.1+	0.5+
1985 09 16	026	0.3+ 0.7+	1999 02 23	699	0.7+	0.1+				

1986 JK

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21041276	ω	232.61082	+0.42679204	+0.90374101		
<i>a</i>	2.7995485	Ω	62.68452	-0.81747659	+0.40122344		
<i>e</i>	0.6799361	<i>i</i>	2.13999	-0.38675648	+0.14923782		
<i>P</i>	4.68	<i>H</i>	18.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 05 04	688	(4.0+ 1.7-)	1986 05 20	568	1.9- 0.4+	1986 10 25	691	0.0 0.0
1986 05 04	675	2.4- 0.2+	1986 05 22	474	(1.5- 2.8-)	1986 10 25	691	1.6+ 0.8-
1986 05 04	688	0.5+ 1.1-	1986 05 22	474	(5.4- 3.9-)	1986 10 25	691	0.7+ 0.1-
1986 05 05	675	0.5- 0.3-	1986 05 22	474	1.3- 0.1+	1986 10 25	691	0.8- 0.1-
1986 05 09	675	1.2- 2.0-	1986 05 22	474	0.5- 0.3-	1986 10 30	691	0.3+ 1.0+
1986 05 10	675	1.2- 0.6-	1986 05 23	474	0.1+ 0.1+	1986 10 30	691	0.0 1.5+

1986 05 10	675	0.4−	0.3−	1986 05 23	474	0.7−	0.1−	1986 10 30	691	1.0−	0.9+
1986 05 14	688	(6.6−	0.8+)	1986 05 23	474	0.9+	0.4−	1986 10 30	691	1.0+	0.0
1986 05 14	688	(2.9−	0.9+)	1986 05 23	474	0.6+	0.5−	1986 10 30	691	0.0	1.1+
1986 05 14	691	0.1−	1.9+	1986 05 23	474	0.1+	0.2−	1986 10 30	691	0.1+	1.7+
1986 05 14	691	0.1+	1.7+	1986 05 23	474	0.4+	0.5−	1986 10 30	691	0.7−	1.5+
1986 05 14	691	0.2+	1.5+	1986 05 27	474	(7.1+	6.6−)	2000 04 01	046	0.3+	0.1−
1986 05 14	372	2.0+	2.3+	1986 05 27	474	(8.1+	6.4−)	2000 04 01	046	0.1−	0.0
1986 05 14	372	(4.7+	0.2−)	1986 07 18	675	0.3−	0.2+	2000 04 01	046	0.1−	1.1+
1986 05 15	801	1.0+	1.4+	1986 07 18	675	0.8−	0.1+	2000 04 01	046	0.0	0.2−
1986 05 15	691	0.4+	0.7+	1986 07 19	675	0.5−	0.4+	2000 04 01	046	0.3−	0.1+
1986 05 15	691	0.5+	0.0	1986 07 19	675	0.5−	0.7+	2000 04 01	046	0.3+	1.0−
1986 05 15	691	0.5+	0.2+	1986 07 24	675	0.7−	0.5+	2000 04 01	046	0.3+	0.3+
1986 05 15	474	1.6+	1.3−	1986 07 24	675	0.2+	0.4+	2000 04 02	046	0.0	0.7−
1986 05 15	474	0.3−	1.2−	1986 07 26	675	0.1−	0.2−	2000 04 02	046	0.3+	0.1+
1986 05 16	801	(4.1−	4.0+)	1986 07 26	675	0.3+	0.1+	2000 04 02	046	0.3−	0.1+
1986 05 16	691	0.6+	0.8−	1986 07 28	675	0.3+	1.0+	2000 04 02	046	1.3+	0.5+
1986 05 16	657	(3.6−	0.1−)	1986 07 28	675	0.4+	0.5+	2000 04 04	699	(0.7−	2.1+)
1986 05 16	691	0.9+	0.7−	1986 08 15	675	0.0	0.6−	2000 04 04	699	0.7−	0.7+
1986 05 16	691	0.8+	0.7−	1986 08 15	675	0.1−	0.4−	2000 04 04	699	0.2−	0.2+
1986 05 16	657	(3.8−	3.1−)	1986 08 16	675	0.5+	0.1−	2000 04 04	699	0.6+	1.3+
1986 05 17	691	0.9+	0.3+	1986 08 16	675	0.0	0.2−	2000 04 08	704	0.1−	1.1−
1986 05 17	691	0.9+	0.3+	1986 09 26	691	1.6−	0.6−	2000 04 08	704	0.8+	0.4+
1986 05 17	691	1.0+	0.5+	1986 09 27	691	0.4+	0.3−	2000 04 08	704	0.0	1.3+
1986 05 17	372	1.3−	1.7+	1986 09 27	691	1.0−	0.2+	2000 04 08	704	(0.6+	2.3+)
1986 05 18	691	0.1+	0.5−	1986 09 27	691	0.2−	0.4−	2000 04 12	608	0.2+	0.1+
1986 05 18	691	0.0	0.4−	1986 10 25	691	0.1+	0.2−	2000 04 12	608	0.1−	0.4+
1986 05 18	691	0.2−	0.5−	1986 10 25	691	(2.6+	0.1−)	2000 04 12	608	0.4−	0.7+
1986 05 18	568	2.1−	0.2−	1986 10 25	691	(2.5+	0.4−)				

1986 PO₂ = 2000 GA₁₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.07898		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.26807076	ω	235.18960	+0.95560302	−0.28025652		
<i>a</i>	2.3821536	Ω	140.86140	+0.29465455	+0.91020581		
<i>e</i>	0.3440007	<i>i</i>	8.28830	−0.00125377	+0.30492896		
<i>P</i>	3.68	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1986 08 01	675	(8.1+	2.9+)	1986 09 04	809	1.0+	0.0	1995 01 31	691	0.3+	0.3−
1986 08 01	675	(7.8+	6.8+)	1986 09 06	809	0.5−	0.8+	1999 03 15	012	0.4−	0.8+
1986 08 02	675	(44.3−	3.9−)	1986 09 06	809	0.3−	1.0+	1999 03 15	012	0.0	0.1−
1986 08 02	675	(43.3−	0.8−)	1986 09 06	809	0.3−	0.8+	1999 03 15	012	1.0+	0.3−
1986 09 01	809	0.6−	0.1−	1986 09 08	809	0.3+	0.0	1999 03 15	012	1.7−	2.0+
1986 09 01	809	0.5−	0.3−	1986 09 08	809	0.5+	0.0	1999 03 15	012	0.7+	0.1+
1986 09 01	809	0.0	0.3−	1986 09 08	809	0.4+	0.1−	2000 04 06	691	0.2−	0.1+
1986 09 02	809	0.7−	1.1−	1986 09 10	809	0.4+	0.9+	2000 04 06	691	0.0	0.0
1986 09 02	809	0.5−	1.1−	1986 09 10	809	0.6+	0.7+	2000 04 06	691	0.0	0.1+
1986 09 02	809	0.1−	1.0−	1986 09 10	809	0.6+	0.8+	2000 04 07	691	0.2−	0.0
1986 09 02	809	0.4−	0.7−	1986 09 12	809	0.4−	1.3+	2000 04 07	691	0.2−	0.0
1986 09 02	809	0.4−	0.8−	1986 09 12	809	0.0	1.1+	2000 04 07	691	0.3−	0.1−
1986 09 02	809	0.1+	0.9−	1986 09 12	809	0.1+	1.2+	2000 04 10	691	0.6+	0.3−
1986 09 04	809	0.5+	0.3−	1995 01 31	691	0.2+	0.1+	2000 04 10	691	0.3+	0.1+
1986 09 04	809	0.4+	0.3−	1995 01 31	691	0.4+	0.2−	2000 04 10	691	0.3+	0.1+

1986 RS₅ = 1998 XB₉₄ = 2000 CW₅₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	165.70096		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18038850	ω	114.15491	+0.98465732	+0.16248149		
<i>a</i>	3.1021549	Ω	236.55187	−0.17449909	+0.91725168		
<i>e</i>	0.2008536	<i>i</i>	4.37413	+0.00019523	+0.36366072		
<i>P</i>	5.46	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1986 08 29	095	0.4+	1.8+	2000 02 02	704	0.9−	1.1+	2000 02 12	704	1.6+	1.3+
1986 09 03	071	0.6+	1.8−	2000 02 02	704	0.2+	0.3−	2000 03 11	699	0.9−	0.4+

1986 09 03	071	0.7+	0.6−	2000 02 02	704	0.9+	0.4+	2000 03 11	699	0.2−	0.2+
1986 09 06	095	1.7−	0.8+	2000 02 06	704	0.7−	0.5+	2000 03 11	699	0.5−	0.4+
1998 12 15	704	0.8+	0.1−	2000 02 06	704	0.2−	0.1−	2000 03 11	699	0.9−	0.3+
1998 12 15	704	0.3−	0.2+	2000 02 06	704	0.3−	0.2+	2000 03 13	704	1.1+	0.3−
1998 12 15	704	1.4−	0.9+	2000 02 07	704	0.4−	0.3−	2000 03 13	704	0.0	1.0−
1998 12 15	704	1.4−	1.4+	2000 02 07	704	0.6−	0.9−	2000 03 13	704	0.6+	0.7−
1998 12 22	704	0.3−	1.3−	2000 02 07	704	0.3−	0.3−	2000 04 05	704	0.2+	0.1+
1998 12 22	704	0.0	0.9+	2000 02 07	704	0.1−	1.2−	2000 04 05	704	0.7+	0.1−
1998 12 22	704	1.4+	0.0	2000 02 12	704	(2.3−	2.3−)	2000 04 05	704	0.3−	0.8+
1998 12 22	704	1.3+	1.9−	2000 02 12	704	0.2+	0.8−	2000 04 05	704	0.9+	0.7+

1987 SM₅ = 2000 EM₃₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	116.60218		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18616455	ω	16.82503	+0.89991261	−0.43402703		
<i>a</i>	3.0376523	Ω	9.24183	+0.36373696	+0.69378942		
<i>e</i>	0.2026977	<i>i</i>	15.22078	+0.24052591	+0.57469712		
<i>P</i>	5.29	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 09 29	054	0.1−	0.8−	1998 11 16	704	1.3−	0.3−	2000 03 05	704	0.8+	0.1−
1987 09 30	054	0.3+	0.9−	1998 12 12	704	0.0	1.1+	2000 03 05	704	0.1−	0.7+
1987 09 30	054	0.2+	0.5−	1998 12 12	704	0.4−	0.3−	2000 03 09	704	0.3−	0.1−
1987 10 02	054	0.2−	0.2+	1998 12 12	704	1.1+	0.5−	2000 03 09	704	0.0	0.2+
1987 10 17	675	1.1−	2.1+	1998 12 12	704	0.6+	0.6−	2000 03 09	704	0.2−	0.3−
1987 10 17	675	1.0−	1.4+	1998 12 12	704	0.4+	0.1+	2000 03 09	704	0.3−	0.3−
1987 10 25	054	0.0	0.1+	2000 02 04	704	0.5−	0.2+	2000 03 09	704	0.7+	0.2−
1987 10 25	054	1.1+	0.7−	2000 02 04	704	1.4+	0.2+	2000 03 12	704	0.1−	1.3−
1998 11 16	704	0.5−	0.5+	2000 02 04	704	0.5+	0.5+	2000 03 12	704	0.1+	0.0
1998 11 16	704	0.2+	0.1+	2000 03 05	704	0.3+	0.3+	2000 03 12	704	0.3−	0.2+
1998 11 16	704	0.3+	0.5−	2000 03 05	704	0.1+	0.4+	2000 03 12	704	0.0	0.4+
1998 11 16	704	0.2−	0.4−	2000 03 05	704	0.9−	0.3+	2000 03 12	704	0.5−	0.4−

1988 PC₂ = 1984 SR₃ = 2000 CU₉₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	236.56254		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.22718893	ω	147.90712	+0.80275524	+0.59607101		
<i>a</i>	2.6599773	Ω	175.39588	−0.58178706	+0.78908604		
<i>e</i>	0.1940904	<i>i</i>	12.10539	−0.13079692	+0.14846742		
<i>P</i>	4.34	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1984 09 28	688	0.6−	1.5−	2000 02 08	704	0.1+	0.7+	2000 04 02	699	0.3−	0.1+
1984 09 28	688	0.7+	0.9−	2000 02 11	704	0.7−	0.5−	2000 04 02	699	0.1−	0.1−
1988 08 07	046	(3.5+	1.3−)	2000 02 11	704	0.2+	0.3−	2000 04 02	699	0.1−	0.3+
1988 08 08	046	(4.1+	2.5−)	2000 02 11	704	0.7−	1.4+	2000 04 03	699	0.4+	0.7−
1988 08 11	657	0.8+	0.0	2000 03 01	703	0.7−	0.0	2000 04 03	699	0.6+	0.3−
1988 08 11	657	(3.4−	2.0−)	2000 03 01	703	0.1−	0.3−	2000 04 03	699	0.3+	0.0
1988 08 13	046	1.7−	2.0−	2000 03 01	703	0.1−	0.4−	2000 04 03	699	0.0	1.4−
1988 08 13	046	0.0	0.8−	2000 03 01	703	0.1−	0.1−	2000 04 04	704	0.2+	0.3−
1988 08 15	046	0.2+	0.3+	2000 03 08	704	0.2−	0.3−	2000 04 04	704	0.1+	0.0
1988 08 15	046	0.6+	0.8+	2000 03 08	704	0.1+	0.4+	2000 04 04	704	0.3−	0.1−
1988 08 22	657	0.6−	0.6+	2000 03 08	704	0.1−	0.2−	2000 04 04	704	0.4+	0.2−
1988 08 22	657	1.4+	1.5−	2000 03 08	704	0.4+	0.3−	2000 04 04	704	0.1−	0.1+
1999 01 18	704	0.5+	1.7−	2000 03 08	704	0.6+	0.4+	2000 04 08	704	0.0	0.2−
1999 01 18	704	(2.3+	2.9−)	2000 03 27	699	0.4−	0.2−	2000 04 08	704	0.2+	0.1+
1999 01 18	704	0.1−	0.3−	2000 03 27	699	0.6−	0.2−	2000 04 08	704	0.1+	0.1+
1999 01 18	704	0.1−	0.3−	2000 03 27	699	0.7−	0.3−	2000 04 08	704	0.2+	0.3+
2000 01 11	699	0.4+	0.2−	2000 03 27	699	0.6−	0.2−	2000 04 08	704	0.2+	0.4+
2000 01 11	699	0.5+	1.1+	2000 03 29	704	0.1−	0.1−	2000 04 10	704	0.2+	0.2+
2000 01 11	699	1.4+	0.8−	2000 03 29	704	0.1−	0.0	2000 04 10	704	0.0	0.0
2000 02 08	704	0.7+	1.0−	2000 03 29	704	0.6−	0.1+	2000 04 10	704	0.0	0.1−
2000 02 08	704	0.7−	0.4+	2000 03 29	704	0.6−	0.1+	2000 04 10	704	0.2+	0.2−

2000 APR. 18

M.P.C. 39937

2000 02 08 704 0.2− 0.5− 2000 03 29 704 0.2− 0.1+ 2000 04 10 704 0.2+ 0.2−
 2000 02 08 704 0.6+ 0.2+ 2000 04 02 699 0.5− 0.4−

1988 RN₅

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.43892		(2000.0)	P	Q	Williams			
<i>n</i>	0.21852030	ω	108.86026	+0.99729203	+0.06337896				
<i>a</i>	2.7298672	Ω	247.51994	−0.07285237	+0.92075066				
<i>e</i>	0.1605977	<i>i</i>	2.31386	+0.01005674	+0.38496925				
<i>P</i>	4.51	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1988 09 02 809 0.6− 0.3+ 1988 09 10 675 1.0+ 0.3+ 2000 03 26 699 0.3− 0.8−
 1988 09 02 809 0.4− 0.0 1988 09 10 675 0.3+ 0.1+ 2000 03 26 699 0.2+ 0.1+
 1988 09 02 809 0.5− 0.0 1988 09 12 675 0.2− 0.3− 2000 03 26 699 1.0+ 0.0
 1988 09 06 809 0.1− 0.4+ 1988 09 12 675 0.5+ 1.2− 2000 03 26 699 0.3+ 0.8+
 1988 09 06 809 0.1− 0.3+ 1988 09 16 675 0.7+ 0.1− 2000 04 07 699 0.2+ 0.6−
 1988 09 06 809 0.2− 0.2+ 1988 09 16 675 0.3+ 0.6− 2000 04 07 699 0.2− 0.1−
 1988 09 09 809 0.3− 0.3− 1997 08 30 566 0.2+ 0.1+ 2000 04 07 699 0.1+ 0.3+
 1988 09 09 809 0.2− 0.0 1997 08 30 566 0.7− 0.1+ 2000 04 07 699 1.5− 0.1−
 1988 09 09 809 0.1+ 0.3+ 1997 08 30 566 0.4+ 0.2+

1988 RE₁₁ = 2000 EJ₄₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	222.90225		(2000.0)	P	Q	Williams			
<i>n</i>	0.22230514	ω	335.22919	+0.83619050	+0.54811627				
<i>a</i>	2.6987939	Ω	351.45848	−0.47970846	+0.71433986				
<i>e</i>	0.1612449	<i>i</i>	7.27764	−0.26582934	+0.43507139				
<i>P</i>	4.43	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1988 09 14 807 0.4− 0.6+ 2000 03 08 704 0.2+ 0.0 2000 03 26 699 0.3+ 0.2−
 1988 09 15 807 0.1+ 0.5+ 2000 03 08 704 0.8− 0.0 2000 03 26 699 0.5+ 0.5−
 1988 10 04 807 0.0 0.2− 2000 03 08 704 0.9+ 1.1+ 2000 03 26 699 0.8+ 0.2−
 1988 10 05 807 0.4− 0.4− 2000 03 10 704 0.9− 0.8+ 2000 04 07 704 0.6− 0.4−
 1988 10 07 807 0.2− 0.6− 2000 03 10 704 0.4− 0.2− 2000 04 07 704 1.0+ 0.4−
 1988 10 08 807 0.1− 0.3− 2000 03 10 704 0.1+ 0.4− 2000 04 07 704 0.7+ 0.1+
 1988 10 08 807 0.4+ 0.9− 2000 03 10 704 0.3− 0.5− 2000 04 08 704 1.0− 1.3+
 1988 11 04 807 0.8+ 0.4− 2000 03 10 704 0.5− 0.1− 2000 04 08 704 1.3− 0.3−
 1988 11 06 807 1.2+ 0.1− 2000 03 11 704 0.3− 0.2− 2000 04 08 704 0.1− 1.0−
 1997 10 30 704 (2.7+ 0.5+) 2000 03 11 704 0.2+ 0.1− 2000 04 08 704 1.0− 0.3+
 1997 10 30 704 0.5− 0.4+ 2000 03 11 704 0.1− 0.8− 2000 04 08 704 0.4+ 0.2+
 1997 10 30 704 0.1+ 0.1+ 2000 03 11 704 0.6− 0.5− 2000 04 08 704 0.2+ 0.6+
 1997 10 30 704 0.4+ 0.6− 2000 03 11 704 0.3+ 0.2−
 2000 03 08 704 0.7+ 0.5− 2000 03 26 699 0.3+ 0.1+

1988 RR₁₁ = 2000 GX₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	214.04791		(2000.0)	P	Q	Williams			
<i>n</i>	0.30780866	ω	292.73225	+0.92235014	+0.38612847				
<i>a</i>	2.1724452	Ω	44.55693	−0.34719678	+0.84340202				
<i>e</i>	0.1906205	<i>i</i>	1.08042	−0.16948337	+0.37360117				
<i>P</i>	3.20	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1988 09 13 675 0.3+ 1.5− 1997 04 14 691 0.8− 0.4− 2000 03 11 704 0.3− 0.5+
 1988 09 13 675 0.4+ 0.7− 1997 04 30 691 0.2− 0.1− 2000 03 11 704 0.4+ 0.3+
 1988 09 14 807 0.1+ 0.0 1997 04 30 691 0.3− 0.2+ 2000 04 05 704 0.0 0.5−
 1988 09 15 807 0.4+ 0.3− 1997 04 30 691 0.3− 0.0 2000 04 05 704 0.3− 1.8+
 1988 09 16 675 1.1+ 1.4− 1998 12 14 704 1.0+ 0.7+ 2000 04 05 704 0.2+ 1.2−
 1988 09 16 675 1.0+ 2.1− 1998 12 14 704 0.8− 0.0 2000 04 05 704 0.6− 1.4+
 1988 10 06 807 0.2+ 0.4+ 1998 12 14 704 0.8− 0.7+ 2000 04 05 704 0.6+ 0.5−
 1988 10 07 807 0.8− 0.1− 1998 12 14 704 (2.9− 0.6+) 2000 04 06 704 0.9+ 0.4−

1993 01 29 691 0.4− 0.8− 1998 12 17 704 (0.8+ 2.2−) 2000 04 06 704 1.0− 0.0
 1993 01 29 691 0.6− 1.6− 1998 12 17 704 0.2− 0.2+ 2000 04 06 704 0.5+ 0.9−
 1993 01 29 691 0.3− 0.9− 1998 12 17 704 0.9+ 1.6− 2000 04 10 608 0.6+ 1.9−
 1997 04 14 691 0.7− 0.3− 1998 12 17 704 0.5− 1.1− 2000 04 10 608 0.4+ 1.6−
 1997 04 14 691 0.7− 0.3− 2000 03 11 704 0.7− 0.7− 2000 04 10 608 0.1+ 2.0−

1988 RZ₁₂ = 2000 GA₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	197.09507		(2000.0)	P	Q	Williams			
<i>n</i>	0.22089645	ω	166.01207	+0.99847801	−0.04783217				
<i>a</i>	2.7102554	Ω	196.80229	+0.03687635	+0.94918150				
<i>e</i>	0.2156943	<i>i</i>	5.44988	+0.04100971	+0.31107325				
<i>P</i>	4.46	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1988 09 11 675 1.7− 1.1− 1996 05 24 691 0.6+ 1.0+ 2000 04 05 704 0.1− 0.6−
 1988 09 11 675 1.0− 0.0 1997 10 28 704 0.8+ 0.6− 2000 04 06 704 0.2+ 0.0
 1988 09 14 807 0.2+ 1.0+ 1997 10 28 704 (3.4+ 2.6−) 2000 04 06 704 0.4+ 0.7−
 1988 09 15 807 0.1− 0.9+ 1997 10 28 704 (3.9+ 1.2−) 2000 04 06 704 0.4− 0.4−
 1988 09 16 675 0.7− 0.4− 1997 10 28 704 (3.2+ 2.5−) 2000 04 06 704 0.1+ 0.1−
 1988 09 16 675 0.6− 0.4+ 1997 10 28 704 1.2− 1.4− 2000 04 06 704 0.4− 0.0
 1988 10 05 807 0.8+ 0.5− 1997 10 30 704 2.0+ 1.4− 2000 04 06 704 0.4− 0.5−
 1988 10 07 807 1.0+ 0.2− 1997 10 30 704 1.3− 1.4+ 2000 04 06 704 0.8− 0.2−
 1988 10 07 675 0.5− 0.5+ 1997 10 30 704 0.1− 0.3− 2000 04 06 704 1.0− 0.5+
 1988 10 07 675 1.4+ 1.1− 1997 10 30 704 0.5+ 0.3+ 2000 04 13 691 0.4− 0.4−
 1988 10 09 675 0.4+ 0.1− 1997 10 30 704 (6.3− 0.7−) 2000 04 13 691 0.4− 0.2−
 1988 10 09 675 1.4+ 0.9− 2000 04 05 704 1.6+ 0.7− 2000 04 13 691 0.5− 0.2−
 1996 05 24 691 1.4− 0.6− 2000 04 05 704 0.0 1.0−
 1996 05 24 691 1.3+ 0.4+ 2000 04 05 704 0.4+ 0.4−

1988 RG₁₃ = 2000 EZ₁₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	197.30947		(2000.0)	P	Q	Williams			
<i>n</i>	0.30180866	ω	222.80542	+0.80246977	+0.57696818				
<i>a</i>	2.2011430	Ω	101.34337	−0.49689363	+0.78734043				
<i>e</i>	0.2484054	<i>i</i>	8.92738	−0.33036190	+0.21726196				
<i>P</i>	3.27	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1988 09 14 807 0.7− 0.3+ 1998 11 16 704 0.5+ 0.1+ 2000 03 04 704 0.4+ 0.2+
 1988 09 15 807 0.1+ 0.4+ 1998 11 16 704 0.0 1.0+ 2000 03 11 699 0.6+ 0.1−
 1988 09 19 807 0.2+ 0.8+ 2000 02 03 704 0.1− 0.4− 2000 03 11 699 0.0 1.1−
 1988 10 06 807 0.8− 0.1− 2000 02 03 704 0.0 0.5− 2000 03 11 699 0.4+ 0.4−
 1988 10 07 807 0.1− 0.0 2000 02 03 704 0.3+ 0.1+ 2000 03 11 699 0.2+ 0.2−
 1988 11 05 807 0.8+ 1.3− 2000 02 03 704 0.8+ 0.0 2000 03 12 704 0.2+ 0.1+
 1988 11 07 807 1.1+ 1.1− 2000 02 03 704 0.2+ 0.1+ 2000 03 12 704 0.2− 0.4−
 1998 11 13 704 0.6+ 0.3+ 2000 02 06 703 1.0+ 0.7− 2000 03 12 704 0.2− 0.0
 1998 11 13 704 0.5− 0.2+ 2000 02 06 703 0.3− 0.5+ 2000 03 12 704 0.2+ 0.4+
 1998 11 13 704 0.0 0.2+ 2000 02 06 703 0.1− 0.7+ 2000 03 12 704 0.1− 0.0
 1998 11 13 704 0.3− 0.5− 2000 02 06 703 0.5− 0.8+ 2000 04 02 704 1.1− 1.5+
 1998 11 13 704 0.9− 0.4− 2000 03 04 704 0.5+ 0.5− 2000 04 02 704 0.8− 0.2+
 1998 11 16 704 0.3− 0.7− 2000 03 04 704 0.1+ 0.1− 2000 04 02 704 0.7− 0.4+
 1998 11 16 704 0.3+ 0.4+ 2000 03 04 704 0.2+ 0.3− 2000 04 02 704 1.4− 0.1−
 1998 11 16 704 0.2+ 0.4+ 2000 03 04 704 0.3+ 0.1+

1988 SD₃ = 2000 FN₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	235.02421		(2000.0)	P	Q	Williams			
<i>n</i>	0.22382117	ω	207.75129	+0.77981881	+0.58278026				
<i>a</i>	2.6865934	Ω	114.75628	−0.51756941	+0.80562311				
<i>e</i>	0.1950883	<i>i</i>	14.57905	−0.35214277	+0.10648277				
<i>P</i>	4.40	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1988 09 16	807	0.1−	0.1+	1999 01 09	691	0.5−	0.0	2000 04 04	704	0.1+	0.0
1988 09 18	807	0.1+	0.2+	1999 01 09	691	(3.4−	3.8−)	2000 04 08	704	0.0	0.4+
1988 09 19	807	0.1+	0.6+	2000 03 29	704	0.3+	0.8+	2000 04 08	704	0.0	0.2−
1988 10 04	807	0.8+	0.1−	2000 03 29	704	0.2+	0.2+	2000 04 08	704	0.6−	0.7−
1988 10 05	807	0.4+	0.0	2000 03 29	704	0.0	0.3−	2000 04 08	704	0.4−	0.3+
1988 10 07	807	1.5−	0.7−	2000 03 29	704	0.5+	0.2+	2000 04 08	704	0.0	0.4−
1998 12 14	691	0.4+	0.9+	2000 03 29	704	0.3+	0.4−	2000 04 11	608	0.4+	0.2+
1998 12 14	691	0.5+	0.7−	2000 04 04	704	0.1−	0.1−	2000 04 11	608	0.1+	0.2+
1998 12 14	691	0.2+	0.3−	2000 04 04	704	0.5−	0.0	2000 04 11	608	0.6+	0.3−
1999 01 09	691	0.5−	0.2+	2000 04 04	704	0.6−	0.2+				

1988 TW₁ = 2000 EF₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22494473	<i>ω</i>	99.84644	+0.54632706	+0.82958260		
<i>a</i>	2.6776399	<i>Ω</i>	204.38540	−0.83527740	+0.52944108		
<i>e</i>	0.2544812	<i>i</i>	16.23211	−0.06195492	+0.17743972		
<i>P</i>	4.38	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1988 10 03	399	0.8+	0.5+	2000 03 03	703	0.5+	0.4−	2000 03 13	704	0.1+	0.6+
1988 10 03	399	(0.2−	3.2−)	2000 03 03	703	1.1+	0.3+	2000 04 07	704	0.8−	0.2+
1988 10 07	675	0.3+	0.1−	2000 03 03	703	0.9+	1.1−	2000 04 07	704	0.2−	0.7−
1988 10 07	675	0.2+	0.5−	2000 03 03	703	0.1+	0.4−	2000 04 07	704	0.4−	0.1−
1988 10 08	399	1.0+	1.4−	2000 03 09	704	0.1−	0.0	2000 04 07	704	0.1+	0.5−
1988 10 13	675	1.4−	0.9−	2000 03 09	704	0.1−	0.9+	2000 04 07	704	0.1−	0.4−
1988 10 13	675	0.7−	0.0	2000 03 09	704	0.3+	0.0	2000 04 08	704	0.5−	0.7−
1988 10 13	399	1.8+	0.5+	2000 03 12	699	0.4−	0.5+	2000 04 08	704	0.1−	0.4+
1988 10 13	399	0.1−	0.5+	2000 03 12	699	0.3−	0.1−	2000 04 08	704	0.6+	1.4−
1988 10 15	399	1.4−	0.7−	2000 03 12	699	0.9−	0.7+	2000 04 08	704	0.2−	1.1+
1988 10 16	399	0.5−	1.4+	2000 03 12	699	0.3−	0.6+	2000 04 08	704	0.1+	0.5−
1988 10 19	399	(3.4−	2.3−)	2000 03 13	704	0.1+	0.2+				
1988 10 19	399	(3.8−	2.5−)	2000 03 13	704	0.6+	0.1−				

1989 AN₃

Id. E. Bowell (1998, 2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28576263	<i>ω</i>	292.85209	+0.63228859	−0.77040749		
<i>a</i>	2.2827889	<i>Ω</i>	117.67056	+0.74034261	+0.56975710		
<i>e</i>	0.1485678	<i>i</i>	5.29649	+0.22826292	+0.28609290		
<i>P</i>	3.45	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 01 04	413	0.1+	1.3+	1998 08 31	704	0.9+	0.3−	1998 12 15	704	(2.3−	1.5+)
1989 01 04	413	1.7+	0.4−	1998 08 31	704	1.2−	0.3−	1998 12 15	704	(4.5−	0.2+)
1989 01 08	675	1.2−	0.7−	1998 10 19	699	0.0	0.3+	2000 04 07	704	0.6+	0.3+
1989 01 08	675	0.8−	1.0+	1998 10 19	699	0.3+	0.3+	2000 04 07	704	0.5+	0.1−
1989 01 10	413	0.2+	0.8+	1998 10 19	699	0.3−	0.6+	2000 04 07	704	1.4+	0.7+
1989 01 10	413	0.5+	0.4−	1998 11 10	704	0.0	0.9+	2000 04 07	704	1.6+	0.2+
1989 01 13	413	0.4−	0.8−	1998 11 10	704	(0.1−	2.6+)	2000 04 07	704	1.6+	0.5+
1989 01 15	413	(3.5−	1.2+)	1998 11 10	704	(1.0−	2.6+)	2000 04 08	704	0.2−	0.0
1989 01 15	413	0.3+	0.8−	1998 11 10	704	(3.0−	1.3+)	2000 04 08	704	0.2−	0.6+
1989 02 04	071	(3.4+	0.3−)	1998 11 11	704	0.8+	0.4−	2000 04 08	704	0.1+	0.3−
1989 02 04	071	(3.6−	5.0+)	1998 11 11	704	0.4−	0.4−	2000 04 09	699	0.3−	0.5+
1993 04 22	691	0.4−	0.8−	1998 11 11	704	0.9+	0.8−	2000 04 09	699	0.4−	0.1+
1993 04 22	691	0.6−	0.7−	1998 11 11	704	1.6+	0.8−	2000 04 09	699	0.4−	0.0
1993 04 22	691	0.6−	0.7−	1998 11 11	704	(5.3−	2.8−)	2000 04 13	704	1.3−	0.7+
1995 11 30	327	0.4+	0.5+	1998 12 11	699	1.3−	0.5−	2000 04 13	704	0.0	0.3−
1995 11 30	327	0.1+	0.2+	1998 12 11	699	0.7−	0.0	2000 04 13	704	0.4−	0.6+
1998 08 31	704	1.3+	0.5−	1998 12 11	699	1.1−	0.3−	2000 04 13	704	0.5−	0.2−
1998 08 31	704	1.1−	1.7+	1998 12 15	704	0.6−	0.2−	2000 04 13	704	0.5−	0.6−
1998 08 31	704	0.4+	0.8+	1998 12 15	704	0.3+	0.5+				

1989 SX₄ = 2000 EX₁₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23253133	<i>ω</i>	211.44372	+0.82648964	−0.56284458		
<i>a</i>	2.6190778	<i>Ω</i>	182.88103	+0.55116482	+0.81300555		
<i>e</i>	0.1677574	<i>i</i>	12.63425	+0.11459591	+0.14909042		
<i>P</i>	4.24	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1989 09 26	809	1.6+	0.0	1989 11 02	675	0.9−	0.4−	2000 04 04	699	1.2−	0.2+
1989 09 26	809	1.6+	0.4−	1989 11 03	675	0.6−	0.0	2000 04 04	699	0.4−	0.4+
1989 09 26	809	1.2+	0.4−	1989 11 03	675	0.0	0.6−	2000 04 04	699	0.4−	0.4+
1989 09 28	809	0.9+	0.1−	2000 03 09	704	(2.3+	1.0+)	2000 04 08	704	0.8−	0.2−
1989 09 28	809	1.1+	0.1+	2000 03 09	704	1.6+	0.5−	2000 04 08	704	0.5−	0.7+
1989 09 28	809	0.5+	0.6−	2000 03 09	704	0.8+	0.2+	2000 04 08	704	0.2−	0.5−
1989 09 29	675	0.9−	0.3−	2000 03 09	704	1.9+	0.8−	2000 04 08	704	0.1+	0.2−
1989 09 29	675	0.7−	0.3−	2000 03 14	703	0.9−	0.4−	2000 04 08	704	0.1−	0.2−
1989 10 03	809	0.2−	0.4+	2000 03 14	703	0.4+	0.6−	2000 04 13	608	0.5+	1.0−
1989 10 03	809	0.8−	0.2−	2000 03 14	703	0.2+	0.2−	2000 04 13	608	0.2+	0.7−
1989 10 03	809	1.6−	0.6−	2000 03 14	703	1.7−	0.7−	2000 04 13	608	0.7+	0.6−
1989 11 02	675	(1.9−	3.3−)	2000 04 04	699	0.5−	0.4+				

1989 SP₉ = 1998 QH₁₆ = 2000 AN₁₀₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21014787	<i>ω</i>	239.12069	+0.44015512	−0.89788248		
<i>a</i>	2.8019006	<i>Ω</i>	184.78872	+0.85435458	+0.42165856		
<i>e</i>	0.0799719	<i>i</i>	5.77388	+0.27630005	+0.12653504		
<i>P</i>	4.69	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1989 09 25	809	0.1+	0.6+	1998 07 26	699	0.5+	0.6+	1999 12 06	704	0.3−	0.3+
1989 09 25	809	0.4+	0.6+	1998 07 26	699	0.5+	0.7−	1999 12 06	704	0.4+	0.2−
1989 09 25	809	0.6+	0.7+	1998 08 17	704	0.3+	0.5−	1999 12 14	704	0.4+	0.3−
1989 09 26	809	0.5−	0.2−	1998 08 17	704	0.7−	0.3+	1999 12 14	704	0.8+	0.5−
1989 09 26	809	0.1−	0.1−	1998 08 17	704	1.0−	0.7+	1999 12 14	704	0.2+	1.9−
1989 09 26	809	0.2+	0.1−	1998 08 17	704	1.1−	0.4−	1999 12 14	704	0.7+	0.5−
1989 09 28	809	0.1−	0.3−	1998 08 17	704	0.9−	0.8+	1999 12 14	704	0.3+	0.4−
1989 09 28	809	0.2+	0.0	1998 08 23	699	0.3+	0.2−	2000 01 05	704	0.6−	0.0
1989 09 28	809	0.4+	0.0	1998 08 23	699	0.6+	0.1−	2000 01 05	704	0.3+	0.4−
1989 09 29	809	0.7−	0.5+	1998 08 23	699	0.4+	0.3−	2000 01 05	704	0.5−	1.5+
1989 09 29	809	0.4−	0.5+	1998 08 23	704	0.4+	0.9−	2000 01 05	704	0.1−	0.1+
1989 09 29	809	0.0	0.6+	1998 08 23	704	1.3+	0.6+	2000 01 05	704	0.4−	0.2+
1994 10 29	691	0.0	0.0	1998 08 23	704	1.1+	0.8−	2000 01 07	704	0.7−	0.5−
1994 10 29	691	0.2−	0.0	1998 09 15	699	1.0−	0.8−	2000 01 07	704	0.6−	0.6−
1994 10 29	691	0.3−	0.2+	1998 09 15	699	0.3−	0.1+	2000 01 07	704	0.9−	0.0
1994 10 31	675	0.3+	0.6−	1998 09 15	699	0.6−	0.2−	2000 01 07	704	0.4−	0.1+
1994 10 31	675	1.5−	0.3−	1999 11 04	704	1.8+	1.0+	2000 01 07	704	0.7−	0.5+
1997 06 11	691	0.7−	0.1−	1999 11 04	704	1.0+	0.6−	2000 03 05	704	0.4+	0.1+
1997 06 11	691	0.1−	0.2+	1999 11 04	704	0.3+	0.0	2000 03 05	704	0.7−	0.2+
1997 06 11	691	0.1+	0.4+	1999 11 04	704	0.2+	0.7+	2000 03 05	704	0.7−	0.4+
1997 06 29	691	0.5+	0.4+	1999 11 04	704	0.1+	0.9+	2000 03 05	704	0.4−	1.5+
1997 06 29	691	0.3+	0.4+	1999 12 06	704	0.5+	0.2−	2000 03 05	704	0.8−	0.3−
1997 06 29	691	0.2+	0.4+	1999 12 06	704	0.4+	0.3−				
1998 07 26	699	0.3+	0.2−	1999 12 06	704	0.3+	0.2+				

2000 APR. 18

M.P.C. 39939

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	92.92568	(2000.0)	P	Q
<i>n</i>	0.28373620	ω 113.44493	-0.04879789	+0.99770561
<i>a</i>	2.2936451	Ω 153.62721	-0.95061803	-0.03197415
<i>e</i>	0.1251277	<i>i</i> 6.06432	-0.30650306	-0.05967552
<i>P</i>	3.47	<i>H</i> 15.2	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 09 28	809	0.0	1.9-	1996 10 12	566	0.2-	0.1-	1999 09 07	704	0.2+	0.3-
1989 09 28	809	1.3+	0.3-	1996 10 12	566	0.8+	0.5+	1999 09 07	704	0.1-	0.2+
1989 09 28	809	0.7+	1.5+	1998 01 26	566	0.3-	0.9-	1999 09 07	704	0.0	1.1-
1989 09 29	675	0.7-	1.7-	1998 01 26	566	0.0	0.7-	1999 09 13	704	0.6-	0.3+
1989 10 03	809	1.7-	0.9-	1998 01 26	566	0.4-	1.2-	1999 09 13	704	1.1-	0.8+
1989 10 03	809	1.5-	1.4-	1999 07 13	704	0.1+	0.3-	1999 09 13	704	0.1-	0.3-
1989 10 03	809	0.3-	1.3-	1999 07 13	704	0.6+	0.4-	1999 09 13	704	0.7+	0.4-
1989 10 07	809	0.3+	0.1+	1999 07 13	704	0.0	0.1+	1999 09 30	704	0.5-	0.6-
1989 10 07	809	1.1+	0.3-	1999 07 13	704	0.7+	0.9-	1999 09 30	704	0.5+	0.4+
1989 10 07	809	0.1+	0.7+	1999 07 13	704	0.1+	0.2-	1999 09 30	704	0.2+	0.7+
1989 10 08	809	1.6+	1.9+	1999 07 21	699	0.2+	0.1+	1999 09 30	704	0.8-	0.0
1989 10 08	809	1.2-	1.0+	1999 07 21	699	0.3+	0.5-	1999 09 30	704	1.0-	0.0
1989 10 08	809	0.7+	1.4+	1999 07 21	699	0.4-	0.0				
1996 10 12	566	0.3-	0.3+	1999 09 07	704	0.7+	0.4+				

1989 WD₄ = 1997 LP₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	103.20440	(2000.0)	P	Q
<i>n</i>	0.21048172	ω 281.37715	+0.96939477	-0.19311098
<i>a</i>	2.7989371	Ω 89.89041	+0.23840494	+0.88789837
<i>e</i>	0.2377957	<i>i</i> 8.71956	-0.05862488	+0.41754596
<i>P</i>	4.68	<i>H</i> 14.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1989 11 28	033	(3.6- 0.3+)	1997 06 05	691	0.1+	0.0	2000 01 04	704	0.7+	0.2+
1989 11 29	033	0.5+ 0.2-	1997 06 10	691	0.0	0.3+	2000 03 02	703	0.7-	0.5-
1989 12 02	033	(7.0- 1.2+)	1997 06 10	691	0.5-	0.8-	2000 03 02	703	0.6-	0.1-
1989 12 03	033	0.1- 0.3+	1997 06 10	691	0.2+	0.5+	2000 03 02	703	0.5+	0.2-
1989 12 03	033	0.4- 0.3+	2000 01 04	704	0.6+	0.2+	2000 03 02	703	0.7-	0.6+
1997 06 05	691	0.2+ 0.2+	2000 01 04	704	0.3+	0.2-				
1997 06 05	691	0.2+ 0.2+	2000 01 04	704	0.1-	0.2-				

1990 GF = 2000 GC₃₄

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	33.82430	(2000.0)	P	Q
<i>n</i>	0.20266652	ω 296.53467	-0.87520471	-0.48365014
<i>a</i>	2.8704371	Ω 214.54381	+0.44985280	-0.80612657
<i>e</i>	0.0668591	<i>i</i> 1.00673	+0.17790214	-0.34094353
<i>P</i>	4.86	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1990 04 04	809	0.1-	0.5+	2000 04 06	699	0.1+	0.2-	2000 04 08	704	0.3+	0.1+
1990 04 04	809	0.3+	0.3+	2000 04 06	704	0.3+	0.3-	2000 04 10	704	0.1+	0.1-
1990 04 04	809	0.2-	0.7+	2000 04 06	704	0.0	0.0	2000 04 10	704	0.0	0.3-
1990 04 15	809	0.5-	0.7-	2000 04 06	704	0.3-	0.9+	2000 04 10	704	0.8+	0.2-
1990 04 16	809	0.1-	0.5-	2000 04 06	704	0.4+	0.1+	2000 04 10	704	0.7+	0.2-
1990 04 16	809	0.4+	0.6-	2000 04 06	704	0.1+	0.5-	2000 04 10	704	0.2-	0.3-
1990 04 16	809	1.7+	1.3-	2000 04 06	699	0.4+	0.2+	2000 04 10	704	0.5+	0.5+
1990 04 17	809	0.1-	0.1+	2000 04 06	704	0.6-	0.1+	2000 04 10	704	0.0	0.8-
1990 04 17	809	1.8-	0.2+	2000 04 06	704	0.0	0.1+	2000 04 10	704	0.4-	0.6-
2000 03 04	703	0.2-	0.2-	2000 04 06	704	0.0	0.1+	2000 04 10	704	0.6+	0.2+
2000 03 04	703	0.2-	0.7+	2000 04 06	699	0.0	0.0	2000 04 10	704	0.4-	0.0
2000 03 04	703	0.4-	0.7+	2000 04 06	704	0.1+	0.5+	2000 04 10	704	0.8-	0.3+
2000 03 04	703	1.3+	0.3+	2000 04 06	704	0.5-	0.1+	2000 04 10	704	0.1+	0.2+
2000 03 14	703	0.2+	0.8+	2000 04 07	704	0.1+	0.1-	2000 04 10	704	0.1-	0.7-

2000 03 14	703	0.0	0.3+	2000 04 07	704	0.0	0.2-	2000 04 10	704	0.1+	0.6+
2000 03 14	703	0.3-	0.1-	2000 04 07	704	0.1-	0.3-	2000 04 10	704	0.3+	0.1-
2000 03 14	703	0.3-	0.1+	2000 04 07	704	0.3-	0.1+	2000 04 11	608	0.7-	0.1-
2000 04 02	699	0.4+	0.4+	2000 04 07	704	0.2-	0.2-	2000 04 11	608	0.9-	0.7-
2000 04 02	699	0.1+	0.4+	2000 04 07	704	0.2+	0.7+	2000 04 11	608	0.4-	0.3+
2000 04 02	699	0.4+	0.2+	2000 04 07	704	0.1+	0.2+	2000 04 12	691	0.4-	0.0
2000 04 02	699	0.3+	0.6+	2000 04 07	704	0.2+	0.1-	2000 04 12	691	0.3-	0.1-
2000 04 05	704	0.5+	0.2-	2000 04 07	704	0.3-	0.1+	2000 04 12	691	0.2-	0.1-
2000 04 05	704	0.4+	0.1-	2000 04 07	704	0.0	0.2-	2000 04 13	691	1.0-	0.7-
2000 04 05	704	0.1+	0.0	2000 04 08	704	0.3+	0.3-	2000 04 13	691	1.2-	0.5-
2000 04 05	704	0.2-	0.3+	2000 04 08	704	0.0	0.6-	2000 04 13	691	1.2-	0.4-
2000 04 05	704	0.3+	0.1+	2000 04 08	704	0.7+	0.1+	2000 04 14	704	0.1-	1.2+
2000 04 06	704	0.0	0.3-	2000 04 08	704	0.4+	0.5+	2000 04 14	704	0.5+	0.7+
2000 04 06	699	0.2+	0.1-	2000 04 08	704	0.7-	0.3+	2000 04 14	704	0.1-	0.6+
2000 04 06	704	0.8+	1.2-	2000 04 08	704	0.7+	0.6+	2000 04 14	704	1.2+	0.3+
2000 04 06	704	0.4+	0.6-	2000 04 08	704	0.5-	0.4-	2000 04 14	704	1.1-	0.0
2000 04 06	704	0.2+	0.5-	2000 04 08	704	0.5+	0.1-				
2000 04 06	704	0.3-	0.1-	2000 04 08	704	0.4+	0.5-				

1990 OD₁ = 2000 GV₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	279.57389	(2000.0)	P	Q
<i>n</i>	0.27946532	ω 155.88292	+0.23764287	+0.96583201
<i>a</i>	2.3169541	Ω 127.70101	-0.91109406	+0.25854803
<i>e</i>	0.1321367	<i>i</i> 7.51021	-0.33679886	-0.01792905
<i>P</i>	3.53	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1990 07 20	372	1.3-	1.5+	1998 12 22	704	0.2+	0.5+	2000 04 07	699	0.3-	0.0
1990 07 20	372	0.9-	1.1+	1998 12 22	704	0.5-	1.3+	2000 04 08	704	0.1+	0.0
1990 07 31	372	0.2+	0.4-	1998 12 22	704	0.1+	0.9+	2000 04 08	683	0.2+	0.0
1990 07 31	372	1.6+	0.2-	1998 12 22	704	(4.0+	2.0+)	2000 04 08	704	0.3-	0.5-
1990 08 01	372	1.1-	1.0-	2000 02 08	704	0.0	0.2+	2000 04 08	683	0.3+	0.1-
1990 08 01	372	0.9+	1.3-	2000 02 08	704	0.4-	0.7-	2000 04 08	704	0.5-	0.8-
1990 08 15	372	(3.2+	1.3+)	2000 02 08	704	0.3+	0.2-	2000 04 08	683	0.4+	0.3-
1990 08 15	372	(3.7+	3.3+)	2000 03 08	704	0.5+	0.1+	2000 04 08	704	0.7-	0.9-
1990 08 20	372	0.6+	0.0	2000 03 08	704	0.5+	1.1+	2000 04 08	704	0.8-	0.5-
1990 08 20	372	(0.1+	2.2+)	2000 03 08	704	1.0+	1.2+	2000 04 11	683	0.3+	0.7-
1990 09 15	675	(16.0-	12.0-)	2000 03 08	704	0.7+	1.2+	2000 04 11	683	0.2+	0.6-
1990 09 15	675	(12.6-	7.1-)	2000 03 08	704	(0.7+	2.1+)	2000 04 11	683	0.2+	0.6-
1997 08 01	566	0.3+	0.5+	2000 04 04	704	0.4-	0.1+	2000 04 12	608	0.3+	0.1-
1997 08 01	566	0.1-	0.3+	2000 04 04	704	0.2-	0.5+	2000 04 12	608	0.0	0.1-
1997 08 01	566	0.2-	0.2+	2000 04 04	704	0.2-	0.1+	2000 04 12	608	0.1+	0.1-
1998 11 23	704	0.6-	1.6-	2000 04 04	704	0.1-	0.5+	2000 04 13	704	0.0	0.3-
1998 11 23	704	1.6+	0.3+	2000 04 04	704	0.3+	0.1+	2000 04 13	704	0.1+	0.3+
1998 11 23	704	0.6-	1.6-	2000 04 07	699	0.2-	0.6-	2000 04 13	704	0.4-	0.5+
1998 11 23	704	0.0	1.1+	2000 04 07	699	0.7-	0.0	2000 04 13	704	0.2+	0.6+
1998 12 22	704	0.3-	0.6-	2000 04 07	699	0.4-	0.0	2000 04 13	704	0.4+	0.6+

1990 QP₄ = 1990 QY₉ = 2000 GE₁₁₈

Id. G. V. Williams (d, MPC 17796; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	229.96157	(2000.0)	P	Q
<i>n</i>	0.26905701	ω 329.16037	+0.73221890	+0.68100984
<i>a</i>	2.3763287	Ω 347.90402	-0.61577987	+0.65631971
<i>e</i>	0.1777131	<i>i</i> 2.46273	-0.29098218	+0.32476151
<i>P</i>	3.66	<i>H</i> 15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1990 08 16	809	0.5+	0.1+	1990 09 13	809	(5.1+	0.8-)	2000 03 11	704	0.4-	0.3+
1990 08 16	809	0.1-	0.8+	1990 09 13	809	(5.8+	0.6-)	2000 03 11	704	0.5+	0.4-
1990 08 16	809	1.5-	0.1+	1990 09 14	809	0.2+	0.1+	2000 03 14	703	0.8-	1.1+
1990 08 20	809	1.5-	0.2+	1990 09 14	809	0.7+	0.3+	2000 03 14	703	0.0	0.1+
1990 08 20	809	1.7-	0.3+	1990 09 14	809	1.6+	0.5+	2000 03 14	703	0.4+	0.1-
1990 08 20	809	1.2-	1.0+	1990 09 14	675	(0.7+	2.2-)	2000 03 14	703	1.4+	0.6+
1990 08 23	675	1.2+	0.6-	1990 09 14	675	0.8+	1.8-	2000 03 25	691	0.1-	0.0

1990 08 23	675	0.3+	0.9−	1990 09 15	809	0.5+	0.4−	2000 03 25	691	0.1+	0.6−
1990 08 26	809	1.5−	1.8+	1990 09 15	809	1.1+	0.4−	2000 03 25	691	0.2+	0.3−
1990 08 26	809	0.1−	1.4+	1990 09 15	809	1.7+	0.4−	2000 04 02	691	0.5−	0.7−
1990 08 26	809	0.5−	1.3+	1990 09 16	809	0.6+	0.2+	2000 04 02	691	0.8−	0.6−
1990 08 27	675	(0.3+	2.7−)	1990 09 16	809	0.6+	0.0	2000 04 02	691	0.7−	0.6−
1990 08 27	675	0.8+	1.3−	1990 09 16	809	0.5+	0.3−	2000 04 07	691	0.3−	1.0−
1990 09 11	413	(0.1+	2.3−)	1990 09 18	675	0.8−	0.2−	2000 04 07	704	0.5−	0.8+
1990 09 11	413	(3.8−	0.4−)	1990 09 18	675	0.8−	1.8−	2000 04 07	704	1.2−	0.5−
1990 09 13	809	0.5−	1.0−	1990 09 19	675	(0.6+	2.5−)	2000 04 07	691	0.4−	0.9−
1990 09 13	809	0.2−	1.0−	2000 03 11	704	0.5+	0.1+	2000 04 07	704	0.3+	0.8−
1990 09 13	809	0.7+	0.8−	2000 03 11	704	0.7+	0.1+	2000 04 07	691	0.3−	0.9−
1990 09 13	809	(4.5+	0.7−)	2000 03 11	704	0.5+	0.4+	2000 04 07	704	0.4−	0.3+

1990 QV₇ = 2000 GA₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26142543	ω	113.28995	+0.98547403	+0.16973119		
<i>a</i>	2.4223534	Ω	236.93831	−0.15818423	+0.90523243		
<i>e</i>	0.2012918	<i>i</i>	0.38836	−0.06179559	+0.38954533		
<i>P</i>	3.77	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 08 16	809	1.2+	0.9+	1990 09 10	809	0.1−	0.1+	2000 03 03	704	0.3−	1.1+
1990 08 16	809	0.2−	0.6+	1990 09 10	809	0.7+	0.1+	2000 03 03	704	0.4−	0.2+
1990 08 16	809	0.3+	0.8+	1990 09 11	809	0.9−	1.8+	2000 03 11	704	0.8−	0.7−
1990 08 18	809	1.4+	1.5−	1990 09 11	809	0.5−	1.8+	2000 03 11	704	0.1+	0.2+
1990 08 18	809	0.2+	1.4−	1990 09 11	809	0.2+	1.6+	2000 03 11	704	0.7+	1.9−
1990 08 18	809	0.1+	1.7−	1994 09 06	691	0.1+	0.2−	2000 03 11	704	0.2+	0.1−
1990 08 24	809	0.1+	1.8−	1994 09 06	691	0.1−	0.2−	2000 04 05	704	1.4+	0.2+
1990 08 24	809	0.8+	1.5−	1994 09 06	691	0.1+	0.1−	2000 04 05	704	0.6+	1.2−
1990 08 24	809	0.2−	1.6−	1998 11 09	327	0.2−	0.7−	2000 04 05	704	0.1−	0.2+
1990 08 26	809	1.1−	0.2+	1998 11 09	327	0.3+	0.5−	2000 04 05	704	0.5+	0.2−
1990 08 26	809	0.3−	0.0	1998 11 09	327	0.1+	0.2−	2000 04 06	704	0.7−	0.5−
1990 08 26	809	0.3−	0.1+	2000 03 03	704	0.1−	0.2−	2000 04 06	704	0.8−	0.5+
1990 09 10	809	0.8−	0.2+	2000 03 03	704	0.5−	0.1+	2000 04 06	704	0.7−	0.0

1990 QA₉ = 2000 ES₁₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17718627	ω	235.63395	+0.63211190	+0.77398459		
<i>a</i>	3.1394194	Ω	73.61616	−0.69760503	+0.58930864		
<i>e</i>	0.2680327	<i>i</i>	2.22101	−0.33731552	+0.23165315		
<i>P</i>	5.56	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 08 16	809	1.1+	0.3+	2000 03 04	703	0.4−	0.7+	2000 04 06	699	0.2−	0.1−
1990 08 16	809	0.3+	0.2−	2000 03 09	704	0.2+	0.2−	2000 04 06	704	0.2+	0.3+
1990 08 16	809	0.1+	0.8−	2000 03 09	704	0.2−	0.1−	2000 04 06	704	0.5+	1.2−
1990 08 18	809	0.2+	0.9+	2000 03 09	704	0.1+	0.1+	2000 04 06	699	0.2+	0.4+
1990 08 18	809	0.9−	0.7+	2000 03 09	704	0.2−	1.0+	2000 04 06	704	(0.6−	2.1−)
1990 08 18	809	1.1−	1.0+	2000 03 09	704	0.2+	1.1+	2000 04 06	699	0.5+	0.2+
1990 08 24	809	(3.1+	1.7−)	2000 04 02	699	0.1−	0.1+	2000 04 06	704	0.2+	0.6−
1990 08 24	809	(2.8+	1.2−)	2000 04 02	699	0.5−	0.3+	2000 04 07	704	0.9+	0.9+
1990 08 24	809	(2.8+	1.3−)	2000 04 02	699	0.5−	0.7−	2000 04 07	704	1.4+	0.3−
1990 08 26	809	1.8−	1.7+	2000 04 02	699	0.4−	0.0	2000 04 07	704	0.7+	0.0
1990 08 26	809	(1.3−	2.8+)	2000 04 03	699	0.5−	0.2+	2000 04 07	704	0.8+	0.5−
1990 08 26	809	(1.4−	2.1+)	2000 04 03	699	0.9−	0.4+	2000 04 07	704	1.3+	0.5−
1990 08 26	675	0.3+	1.3−	2000 04 03	699	0.9−	0.2+	2000 04 10	704	1.5−	1.4+
1990 08 26	675	0.9+	1.5−	2000 04 03	699	0.7−	0.4−	2000 04 10	704	1.1−	1.5+
1990 09 16	675	0.6+	0.6−	2000 04 05	704	0.3+	0.4−	2000 04 10	704	0.1+	0.5−
1990 09 16	675	0.3+	0.7−	2000 04 05	704	0.4+	0.3−	2000 04 10	704	0.1−	0.9−
1990 09 18	675	(3.5−	1.5−)	2000 04 05	704	0.3+	0.5+	2000 04 11	608	1.4−	1.0−
1990 09 18	675	0.0	0.6+	2000 04 05	704	0.7+	0.3+	2000 04 11	608	1.0−	0.8−
2000 03 04	703	0.4+	0.5−	2000 04 05	704	0.9+	0.8+	2000 04 11	608	0.8−	0.8−
2000 03 04	703	0.4+	0.0	2000 04 06	699	0.3+	0.1−				
2000 03 04	703	0.3+	0.4+	2000 04 06	704	0.2+	0.7−				

1990 QJ₉ = 1981 XN₁ = 1994 LG₃ = 1998 FL₁₇ = 1999 LG₂₃

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19880924	ω	240.05473	+0.31192937	+0.94936053		
<i>a</i>	2.9074461	Ω	48.17046	−0.85338234	+0.29735674		
<i>e</i>	0.0168045	<i>i</i>	2.89333	−0.41765854	+0.10145715		
<i>P</i>	4.96	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 12 04	511	0.5−	1.9+	1994 06 03	809	(0.5−	2.2+)	1999 05 19	704	1.6+	0.9−
1981 12 04	511	(0.6−	2.6+)	1994 06 03	809	0.2+	1.2+	1999 05 19	704	0.5−	0.5+
1990 08 16	809	(1.1+	2.6+)	1994 06 04	809	0.6−	0.9−	1999 05 19	704	1.6+	0.3+
1990 08 16	809	0.6+	1.3+	1994 06 04	809	0.3−	0.6−	1999 05 19	704	0.9−	1.2−
1990 08 16	809	0.6−	1.6+	1994 06 04	809	0.2+	1.3−	1999 05 19	704	(2.3+	1.4−)
1990 08 18	809	(3.3+	1.5+)	1998 03 20	704	0.6+	1.4+	1999 06 09	704	0.7+	0.7+
1990 08 18	809	(3.7−	1.5−)	1998 03 20	704	0.1+	0.2−	1999 06 09	704	1.2−	0.3−
1990 08 18	809	(11.2−	0.3−)	1998 03 20	704	0.1−	0.6+	1999 06 09	704	0.5+	0.3+
1990 08 24	809	(5.8+	2.7−)	1998 03 20	704	(0.3+	2.2+)	1999 06 09	704	0.2+	0.5+
1990 08 24	809	(4.7+	2.4−)	1998 03 20	704	0.6+	0.7+	1999 06 15	704	0.3−	0.4+
1990 08 24	809	(4.8+	2.8−)	1998 03 22	704	0.5+	0.8+	1999 06 15	704	0.6−	0.7+
1990 08 26	809	1.3−	1.5+	1998 03 22	704	0.1−	0.9+	1999 06 15	704	0.3−	0.4+
1990 08 26	809	(0.4−	2.0+)	1998 03 22	704	0.5+	1.0+	1999 06 15	704	0.4−	0.6+
1990 08 26	809	1.3−	1.7+	1998 03 22	704	1.0+	1.1+	1999 06 15	704	0.2+	0.8+
1994 06 03	809	(0.8+	2.2+)	1998 03 22	704	0.1−	0.6+				

1990 RL₂ = 2000 DE₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27523701	ω	138.80555	+0.69331212	+0.72048036		
<i>a</i>	2.3406231	Ω	175.01858	−0.69822207	+0.67676687		
<i>e</i>	0.2388082	<i>i</i>	9.97772	−0.17833747	+0.15130976		
<i>P</i>	3.58	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 09 15	675	0.2−	0.2−	2000 03 08	704	0.1+	1.1−	2000 04 02	699	0.3−	0.3−
1990 09 15	675	0.0	1.3+	2000 03 10	704	0.1+	0.1+	2000 04 02	699	0.5−	0.1+
1990 09 18	675	0.4+	0.6−	2000 03 10	704	1.2−	0.6−	2000 04 02	699	0.3−	0.1+
1990 09 18	675	0.7+	1.2−	2000 03 10	704	0.3−	0.2+	2000 04 02	699	0.8−	0.4−
1990 09 20	675	0.3−	0.0	2000 03 10	704	0.1+	0.1−	2000 04 03	699	0.9−	0.3+
1990 09 20	675	0.6−	0.7+	2000 03 10	704	0.7−	0.2−	2000 04 03	699	0.5−	0.0
2000 02 28	120	0.2+	0.4−	2000 03 11	704	0.2+	0.4+	2000 04 03	699	0.3−	0.9+
2000 02 29	120	0.1+	0.3−	2000 03 11	704	0.3+	0.0	2000 04 03	699	0.3−	0.3+
2000 02 29	120	0.6+	0.2+	2000 03 11	704	0.1+	0.6+	2000 04 04	704	0.3−	0.3+
2000 03 01	703	0.5+	0.2+	2000 03 11	704	0.4+	0.0	2000 04 04	704	0.3+	0.2−
2000 03 01	703	0.5+	0.2−	2000 03 11	704	(0.2+	3.0−)	2000 04 04	704	0.1−	0.6+
2000 03 01	703	0.1+	0.1+	2000 03 11	704	0.2+	0.2+	2000 04 04	704	0.3+	0.0
2000 03 01	703	0.5−	0.4+	2000 03 11	704	0.3+	0.0	2000 04 04	704	0.0	0.2+
2000 03 03	120	0.9−	1.0+	2000 03 14	691	0.0	0.8−	2000 04 08	704	0.0	0.3−
2000 03 03	120	1.5−	0.7−	2000 03 14	691	0.3−	0.7−	2000 04 08	704	0.5+	0.0
2000 03 03	120	0.4−	0.1−	2000 03 14	691	0.0	0.9−	2000 04 08	704	0.0	0.1−
2000 03 03	120	0.4+	1.0−	2000 03 27	699	0.4−	0.1+	2000 04 08	704	0.4+	1.5−
2000 03 06	120	0.3+	0.0	2000 03 27	699	0.6+	0.4+	2000 04 08	704	0.2+	0.1+
2000 03 06	120	1.5+	0.6+	2000 03 27	699	0.8+	0.1+	2000 04 10	704	0.4−	0.6−
2000 03 06	120	(2.1+	1.4+)	2000 03 27	699	1.0−	0.1+	2000 04 10	704	0.0	0.3−
2000 03 07	120	0.6−	0.9+	2000 03 29	704	0.0	0.1+	2000 04 10	704	0.5+	0.3−
2000 03 08	704	0.9+	1.2+	2000 03 29	704	0.7+	1.1+	2000 04 10	704	0.3+	0.4−
2000 03 08	704	0.0	0.0	2000 03 29	704	0.1+	0.1+	2000 04 10	704	0.0	0.1−
2000 03 08	704	0.3+	0.7−	2000 03 29	704	0.5+	0.7+				
2000 03 08	704	0.2−	0.6−	2000 03 29	704	0.3+	0.7+				

2000 APR. 18

M.P.C. 39941

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	261.26134	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.27595434	ω	245.55321	+0.65489228	+0.75480495	
<i>a</i>	2.3365651	Ω	65.41090	-0.67769461	+0.60835980	
<i>e</i>	0.2622029	<i>i</i>	2.34611	-0.33443404	+0.24529134	
<i>P</i>	3.57	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i> 6

Residuals in seconds of arc

1990 09 15	809	2.4+	0.0	1990 09 25	809	2.8+	2.3+	2000 04 06	699	1.0+	0.1+
1990 09 15	809	2.2+	1.0+	1990 09 25	809	2.4+	2.7+	2000 04 06	704	0.1-	0.2-
1990 09 15	809	1.9+	1.9+	2000 04 06	699	0.6+	0.0	2000 04 10	704	1.0-	0.9-
1990 09 22	809	(4.0+	1.1+)	2000 04 06	699	0.5+	0.9+	2000 04 10	704	0.7-	0.3+
1990 09 22	809	2.7+	0.0	2000 04 06	704	0.8+	0.3+	2000 04 10	704	0.1+	0.7-
1990 09 22	809	2.9+	0.6+	2000 04 06	699	0.1-	1.5+	2000 04 10	704	0.7-	0.2-
1990 09 25	809	2.3+	2.2+	2000 04 06	704	0.3+	0.6-				

1990 UP₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.91653	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.25728035	ω	217.34453	+0.88445699	-0.46634731	
<i>a</i>	2.4483019	Ω	170.41326	+0.44794703	+0.83895722	
<i>e</i>	0.1876101	<i>i</i>	5.51317	+0.13068772	+0.28048344	
<i>P</i>	3.83	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1990 10 16	809	0.2+	0.3+	1998 12 15	704	0.7+	0.2+	1999 01 18	704	(3.5-	2.2-)
1990 10 16	809	0.0	0.4+	1998 12 15	704	0.6-	0.4+	2000 04 04	699	0.3+	0.5-
1990 10 16	809	0.0	0.6+	1998 12 15	704	(4.9-	0.1+)	2000 04 04	699	0.6+	0.3-
1990 10 19	809	1.1-	0.7-	1998 12 22	704	(0.5+	3.4-)	2000 04 04	699	0.1+	0.2+
1990 10 19	809	0.2+	0.3-	1998 12 22	704	0.1-	0.8-	2000 04 04	699	0.8+	0.3+
1990 10 19	809	0.4-	0.0	1998 12 22	704	1.1-	0.2-	2000 04 07	699	0.8-	0.9+
1990 10 24	809	0.0	0.1+	1998 12 22	704	0.7+	0.3-	2000 04 07	699	0.5-	0.3+
1990 10 24	809	0.6+	0.2-	1998 12 22	704	(3.2-	1.8-)	2000 04 07	699	0.9-	0.6-
1990 10 24	809	0.5+	0.6-	1999 01 18	704	0.0	0.4+	2000 04 07	699	0.3+	0.4-
1998 12 15	704	0.6-	1.6+	1999 01 18	704	0.7+	0.6-				
1998 12 15	704	0.7-	0.9+	1999 01 18	704	0.8+	1.3-				

1991 GL₈ = 2000 GZ₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	277.27095	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21772557	ω	287.89851	+0.36279961	+0.93186148	
<i>a</i>	2.7365061	Ω	3.37899	-0.83268200	+0.32575208	
<i>e</i>	0.1391884	<i>i</i>	3.16908	-0.41835048	+0.15974904	
<i>P</i>	4.53	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1991 04 08	809	0.7-	1.3-	1991 04 19	809	0.2-	1.1+	2000 04 06	704	0.3+	0.3-
1991 04 08	809	0.6-	0.1-	1995 02 25	691	0.4+	0.1+	2000 04 06	704	0.3+	0.6+
1991 04 08	809	1.0-	0.1-	1995 02 25	691	0.3-	0.1+	2000 04 06	704	0.2+	0.2+
1991 04 10	809	1.0+	1.1+	1995 02 25	691	0.1-	0.1-	2000 04 07	704	0.4+	0.3+
1991 04 10	809	0.4+	0.2+	2000 04 05	704	0.7+	0.0	2000 04 07	704	0.5+	0.5+
1991 04 10	809	0.8-	0.3+	2000 04 05	704	0.3-	0.0	2000 04 07	704	0.1-	0.2+
1991 04 15	675	(2.5-	2.2-)	2000 04 05	704	0.2+	0.2-	2000 04 07	704	0.2+	0.4+
1991 04 15	675	1.1+	1.1-	2000 04 05	704	0.2+	0.2-	2000 04 13	608	0.9-	0.4-
1991 04 19	809	0.3+	0.5+	2000 04 05	704	0.1+	0.1-	2000 04 13	608	0.6-	0.9-
1991 04 19	809	1.0+	0.3+	2000 04 06	704	0.1+	0.5+	2000 04 13	608	1.5-	1.6-

1991 PB₃ = 2000 AX₂₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	171.73947	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.18008301	ω	27.76700	+0.95319057	+0.18807842	
<i>a</i>	3.1056623	Ω	319.09608	-0.29738729	+0.72469193	
<i>e</i>	0.0628287	<i>i</i>	21.19707	+0.05466754	+0.66290883	
<i>P</i>	5.47	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1991 08 02	809	0.1-	0.2-	2000 01 06	699	0.4+	0.4-	2000 02 02	704	0.6+	0.9+
1991 08 02	809	0.5-	0.5+	2000 01 06	699	1.2+	0.6-	2000 02 02	704	0.2-	0.3+
1991 08 02	809	1.3-	0.2-	2000 01 06	699	0.4-	0.6+	2000 02 08	704	0.2-	0.8+
1991 08 07	809	0.6+	0.1-	2000 01 08	704	0.3+	0.7-	2000 02 08	704	0.4-	0.3+
1991 08 07	809	0.1+	0.5-	2000 01 08	704	0.9-	0.3+	2000 02 08	704	0.6+	0.4-
1991 08 07	809	0.6+	0.8-	2000 01 08	704	0.4-	0.7-	2000 02 08	704	0.4+	0.8-
1991 08 14	809	0.3+	0.1+	2000 02 02	704	0.5-	0.1+	2000 04 07	608	0.4+	0.3-
1991 08 14	809	0.2+	0.4+	2000 02 02	704	0.1+	0.1-	2000 04 07	608	0.3-	0.2-
1991 08 14	809	0.1+	0.8+	2000 02 02	704	0.5-	1.0+	2000 04 07	608	0.2-	0.4-

1991 PX₁₀ = 2000 GU₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	207.03917	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.29981163	ω	166.15276	+0.98822449	+0.15243893	
<i>a</i>	2.2109066	Ω	185.13419	-0.15064865	+0.95420898	
<i>e</i>	0.1997314	<i>i</i>	8.49414	-0.02678307	+0.25738607	
<i>P</i>	3.29	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1991 08 07	675	0.2+	1.1-	1991 09 15	691	0.4-	0.5+	1998 12 22	704	(4.9-	2.0+)
1991 08 08	675	1.5-	0.9-	1991 09 17	675	0.4+	0.5+	2000 03 27	691	0.5-	0.6-
1991 08 10	675	0.6+	0.6-	1991 09 17	675	1.3+	0.0	2000 03 27	691	0.3-	0.4-
1991 09 07	675	0.1+	0.7-	1991 10 09	033	1.9-	0.9+	2000 03 27	691	0.1-	0.5-
1991 09 07	675	0.2-	0.7-	1991 10 09	033	0.5-	1.7+	2000 04 07	704	0.4-	1.3-
1991 09 09	675	0.6+	0.8-	1998 12 15	704	0.5+	0.7+	2000 04 07	704	0.3-	0.2+
1991 09 09	675	0.9+	1.5-	1998 12 15	704	0.4+	0.8+	2000 04 07	704	0.3+	1.1+
1991 09 12	808	1.0+	0.0	1998 12 15	704	0.3-	1.6-	2000 04 07	704	0.4+	0.3+
1991 09 12	808	(2.5-	3.3-)	1998 12 15	704	1.4+	0.6-	2000 04 08	704	0.3-	0.2+
1991 09 14	675	0.1+	0.4+	1998 12 15	704	0.0	0.4+	2000 04 08	704	0.7-	0.7+
1991 09 14	675	0.1+	1.1+	1998 12 22	704	1.0-	0.1+	2000 04 08	704	0.8+	0.3+
1991 09 15	691	0.6-	0.6+	1998 12 22	704	(2.5-	1.7-)	2000 04 08	704	1.2+	0.3+
1991 09 15	691	0.8-	0.9+	1998 12 22	704	0.8-	1.2-	2000 04 08	704	0.0	0.7+

1991 PH₁₆

Id. E. Bowell (1988, 2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	223.56138	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.29960779	ω	354.65152	+0.86615415	+0.49746477	
<i>a</i>	2.2119093	Ω	335.33363	-0.45416456	+0.74336123	
<i>e</i>	0.1241837	<i>i</i>	6.60713	-0.20859422	+0.44714973	
<i>P</i>	3.29	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1988 11 09	675	0.6+	0.4-	1998 11 16	704	(0.3-	2.5-)	2000 04 03	699	0.4-	0.2+
1988 11 09	675	0.8-	0.4+	1998 11 16	704	0.9-	0.4-	2000 04 03	699	0.4-	0.3-
1991 08 07	675	0.2+	1.6-	1998 11 16	704	0.1-	0.7+	2000 04 03	699	0.4-	0.2+
1991 08 08	675	(0.8-	2.6-)	1998 12 14	704	0.3-	1.2+	2000 04 05	704	0.1-	0.1+
1991 09 09	095	1.3-	0.5+	1998 12 14	704	0.4+	1.1-	2000 04 05	704	0.1-	0.3-
1991 09 09	095	1.3+	0.0	1998 12 14	704	0.3-	0.1+	2000 04 05	704	0.4+	0.3-
1991 09 14	675	0.0	0.0	1998 12 14	704	0.0	0.2+	2000 04 05	704	0.0	0.2-
1991 09 14	675	0.2-	0.3+	1998 12 14	704	(2.2-	0.1+)	2000 04 05	704	0.2+	0.5-
1991 09 15	691	0.6-	0.7+	1999 01 08	704	0.1-	0.7+	2000 04 06	699	0.0	0.3-
1991 09 15	691	0.5-	0.3+	1999 01 08	704	1.2+	1.5-	2000 04 06	699	0.0	0.0
1991 09 15	691	0.3-	0.3+	1999 01 08	704	0.9+	0.4+	2000 04 06	699	0.5-	0.0
1991 09 17	675	0.6-	0.4+	1999 01 08	704	0.7-	0.8+	2000 04 06	699	0.2-	0.0
1991 09 17	675	0.0	0.1+	1999 01 08	704	(5.5-	0.1+)	2000 04 07	704	0.4+	0.2+
1991 10 05	691	0.4+	0.2+	2000 03 04	703	0.0	0.3+	2000 04 07	704	0.6+	0.2+

M.P.C. 39942

2000 APR. 18

1991 10 05	691	0.4+	0.6+	2000 03 04	703	0.2−	0.0	2000 04 07	704	0.5+	0.3+
1991 10 05	691	0.1+	0.5+	2000 03 04	703	0.0	0.1+	2000 04 07	704	0.6+	0.4+
1998 08 31	704	1.0−	1.0+	2000 03 04	703	0.2−	0.3+	2000 04 07	704	0.5+	0.2+
1998 08 31	704	(1.6+	2.6−)	2000 04 02	699	0.1+	0.4−	2000 04 08	704	0.1−	0.9+
1998 08 31	704	0.3−	1.8−	2000 04 02	699	0.2+	0.1−	2000 04 08	704	0.4−	0.4+
1998 08 31	704	0.8+	0.1−	2000 04 02	699	0.1+	0.0	2000 04 08	704	0.2+	0.6+
1998 11 16	704	0.7+	0.1−	2000 04 02	699	0.2+	0.2−	2000 04 08	704	0.4+	0.2+
1998 11 16	704	0.4−	0.4+	2000 04 03	699	0.1−	0.2−	2000 04 08	704	0.6+	1.5+

1991 PU₁₉ = 1982 RR₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21804973	<i>ω</i>	59.96406	+0.98829140	+0.12301248		
<i>a</i>	2.7337933	<i>Ω</i>	292.84187	−0.15010861	+0.88990032		
<i>e</i>	0.2218853	<i>i</i>	5.62099	+0.02734064	+0.43925545		
<i>P</i>	4.52	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 09 12	095	0.3+	1.8+	1991 09 04	095	(2.5−	1.7+)	1999 05 13	704	1.7−	1.6−
1982 09 20	095	1.2−	0.0	1991 09 10	675	0.2−	1.2−	1999 05 13	704	1.6+	0.3+
1991 08 08	675	0.4+	0.1+	1991 09 10	675	0.0	1.1−	1999 05 13	704	0.1+	0.2+
1991 08 08	675	1.7+	1.1−	1999 05 13	704	0.8+	0.9+				
1991 09 04	095	0.9−	1.7+	1999 05 13	704	0.6−	0.9+				

1991 RG₃ = 1996 RV₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18544710	<i>ω</i>	218.73996	−0.86313594	+0.50223596		
<i>a</i>	3.0454818	<i>Ω</i>	350.94350	−0.33887919	−0.65316656		
<i>e</i>	0.0877049	<i>i</i>	19.47987	−0.37437581	−0.56668552		
<i>P</i>	5.31	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 12	033	0.4−	0.5−	1996 09 08	691	0.1+	0.2−	1999 01 14	704	0.4+	0.3−
1991 09 12	033	0.1−	0.0	1996 09 08	691	0.1−	0.1−	1999 01 14	704	0.6−	0.8−
1991 09 13	033	0.3+	0.8+	1996 09 21	691	0.1+	0.1+	1999 01 14	704	0.6+	0.1+
1991 09 14	033	0.2+	0.3−	1996 09 21	691	0.0	0.2−	1999 01 14	704	0.4−	1.0+
1996 09 08	691	0.0	0.2+	1996 09 21	691	0.0	0.2+				

1991 RH₃ = 1999 RF₁₂ = 1999 RY₁₁₃

Id. M. E. Sansaturio, S. Nakano (d, MPC 39649)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.24230088	<i>ω</i>	353.41193	+0.78734493	+0.61385930		
<i>a</i>	2.5481954	<i>Ω</i>	328.49275	−0.56053269	+0.67418412		
<i>e</i>	0.1927919	<i>i</i>	6.27682	−0.25669256	+0.41067326		
<i>P</i>	4.07	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 09 12	033	1.0+	0.1−	1999 09 08	704	0.1−	0.1−	1999 09 09	704	0.3−	0.9+
1991 09 12	033	1.9+	1.0+	1999 09 08	704	0.3−	0.4−	1999 09 09	704	0.2+	0.4+
1991 09 13	033	1.5+	1.6+	1999 09 08	704	0.5+	0.2+	1999 09 09	704	0.4−	0.1−
1991 09 14	033	1.6+	0.8+	1999 09 09	704	0.7−	1.0−	1999 09 14	704	0.0	0.4−
1999 09 07	704	0.0	0.1+	1999 09 09	704	0.6−	0.1−	1999 09 14	704	0.3+	0.0
1999 09 07	704	0.0	0.3+	1999 09 09	704	0.1−	0.2−	1999 09 14	704	0.9+	0.3+
1999 09 07	704	0.3+	0.2+	1999 09 09	704	0.3−	0.4−	1999 09 14	704	0.5+	0.2+
1999 09 07	704	0.4+	0.2+	1999 09 09	704	0.2−	0.0	1999 09 14	704	0.4+	0.5−
1999 09 07	704	0.1+	0.5+	1999 09 09	704	0.4−	0.1−				

1991 RY₃ = 2000 EQ₁₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18120084	<i>ω</i>	317.21242	+0.68819076	+0.72516570		
<i>a</i>	3.0928765	<i>Ω</i>	356.06258	−0.54169989	+0.49249112		
<i>e</i>	0.1922113	<i>i</i>	19.55381	−0.48265381	+0.48123509		
<i>P</i>	5.44	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 09 05	033	0.1−	0.0	2000 03 14	703	0.5−	0.1+	2000 04 07	691	0.4−	0.9−
1991 09 05	033	0.1−	0.2+	2000 03 14	703	0.8−	0.3+	2000 04 07	691	0.4−	0.8−
1991 09 12	033	0.3−	0.1−	2000 03 14	703	0.1−	0.1−	2000 04 07	704	0.4+	0.4+
1991 09 12	033	0.0	0.3−	2000 03 14	608	0.4−	0.2+	2000 04 07	704	0.5+	0.7+
1991 09 14	033	0.3+	0.4−	2000 03 14	608	0.0	0.7+	2000 04 07	704	0.1+	0.3+
1991 09 15	033	0.3−	0.1−	2000 03 14	608	0.2−	0.7−	2000 04 07	704	0.2+	0.9+
1991 09 15	033	0.4+	0.7+	2000 04 02	691	0.4−	0.3−	2000 04 07	704	0.0	0.3+
2000 02 27	703	0.6+	0.3+	2000 04 02	691	0.3−	0.2−	2000 04 08	704	0.0	0.4+
2000 02 27	703	0.7+	0.1−	2000 04 02	691	0.4−	0.4−	2000 04 08	704	0.4−	0.9+
2000 02 27	703	0.6−	0.9+	2000 04 05	704	0.2+	0.2−	2000 04 08	704	0.0	0.2−
2000 02 27	703	0.7+	0.6+	2000 04 05	704	0.1+	0.1+	2000 04 08	704	0.3−	0.3+
2000 03 11	704	1.4+	1.8−	2000 04 05	704	0.4+	0.2+	2000 04 08	704	0.5−	0.6+
2000 03 11	704	0.3−	0.2+	2000 04 06	704	1.6+	0.2+	2000 04 13	691	0.3−	0.3−
2000 03 11	704	0.3−	0.4−	2000 04 06	704	0.8+	0.3+	2000 04 13	691	0.3−	0.6−
2000 03 11	704	0.3−	0.5−	2000 04 06	704	0.5+	0.2+	2000 04 13	691	0.5−	0.6−
2000 03 11	704	0.4−	0.8−	2000 04 06	704	0.1+	0.8+				
2000 03 14	703	0.1−	0.1−	2000 04 07	691	0.3−	0.8−				

1991 RB₁₆ = 2000 GA₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.30864734	<i>ω</i>	285.27195	+0.84879010	+0.52740136		
<i>a</i>	2.1685080	<i>Ω</i>	42.91633	−0.46154097	+0.77363049		
<i>e</i>	0.1806356	<i>i</i>	3.15352	−0.25794437	+0.35120317		
<i>P</i>	3.19	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 09 14	675	1.1+	0.6−	1995 11 23	691	0.3−	0.3−	2000 04 06	704	0.4+	0.2−
1991 09 14	675	0.7+	0.6−	1995 11 23	691	0.1+	0.7−	2000 04 06	704	0.1+	0.0
1991 09 15	675	0.7+	1.2−	1995 11 23	691	0.2−	0.3−	2000 04 06	704	0.2+	0.7−
1991 09 15	675	0.7−	0.1+	1998 12 17	704	0.8−	0.3−	2000 04 06	704	0.2−	0.1+
1991 09 16	675	0.4+	0.5−	1998 12 17	704	0.6−	1.0−	2000 04 06	704	0.0	0.9−
1991 09 16	675	0.6+	0.5−	1998 12 17	704	0.8+	1.1−	2000 04 07	704	0.4−	0.8−
1991 09 17	675	0.8+	1.2−	1998 12 17	704	(3.3−	1.4−)	2000 04 07	704	0.0	1.4−
1991 09 17	675	0.6+	0.5−	2000 04 05	704	1.8−	1.2+	2000 04 07	704	0.3+	0.1−
1991 09 30	691	0.6−	0.6+	2000 04 05	704	0.0	0.5+	2000 04 07	704	0.4−	0.8−
1991 09 30	691	0.8−	0.6+	2000 04 05	704	0.3+	0.4−				
1991 09 30	691	1.1−	0.7+	2000 04 05	704	0.0	0.8−				

1991 RN₁₇ = 2000 CP₄₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27468996	<i>ω</i>	198.46753	+0.96171550	−0.27394511		
<i>a</i>	2.3437297	<i>Ω</i>	177.39570	+0.26772977	+0.93327564		
<i>e</i>	0.2284861	<i>i</i>	9.59687	+0.05851558	+0.23227282		
<i>P</i>	3.59	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 11	675	0.7+	1.2+	1998 08 19	566	0.5−	0.0	2000 02 06	704	0.6−	0.2+
1991 09 11	675	0.2+	0.6+	1998 08 24	704	0.4+	0.4+	2000 02 06	704	0.3−	0.8+
1991 09 13	675	0.4−	0.7−	1998 08 24	704	0.1+	0.3−	2000 02 06	704	0.2+	0.6−
1991 09 13	675	1.1−	0.8−	1998 08 24	704	0.2−	0.2+	2000 02 06	704	0.1−	1.0+
1991 09 13	691	0.5+	0.6+	1998 08 24	704	0.2−	0.0	2000 02 12	704	0.3+	0.8−
1991 09 13	691	0.4+	0.7+	2000 02 02	704	0.1+	0.1+	2000 02 12	704	1.4+	0.6−
1991 09 13	691	0.5+	0.3+	2000 02 02	704	0.6−	0.1−	2000 02 12	704	0.7−	0.1+

2000 APR. 18

M.P.C. 39943

1991 09 16	675	0.7−	0.8−	2000 02 02	704	0.2−	0.2−	2000 02 12	704	0.4+	0.9+
1991 09 16	675	0.2−	0.9−	2000 02 02	704	0.9+	0.1−	2000 02 12	704	0.1+	0.4+
1998 08 19	566	0.1+	0.2−	2000 02 02	704	0.0	0.7−				
1998 08 19	566	0.3+	0.2−	2000 02 06	704	0.9−	0.2−				

1991 TP

Id. E. Bowell (1999 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.18338935	ω	133.20842	+0.50226883	+0.86288621		
a	3.0682210	Ω	166.60859	−0.84690880	+0.50399944		
e	0.1078156	i	14.03203	−0.17456089	+0.03757592		
P	5.37	H	13.1	G	0.15	U	4

Residuals in seconds of arc

1991 09 12	675	0.1−	0.6−	1999 02 14	699	1.1+	0.1+	2000 04 04	704	0.5−	0.1−
1991 09 12	675	0.2+	0.7+	1999 02 14	699	0.2−	0.6−	2000 04 08	704	0.3+	0.5−
1991 09 14	675	0.1+	1.5+	1999 02 14	699	1.0+	1.4+	2000 04 08	704	1.2+	0.4+
1991 09 14	675	0.6−	0.7+	2000 03 08	704	0.0	0.7+	2000 04 08	704	0.0	0.2−
1991 10 01	413	0.2+	0.1+	2000 03 08	704	0.3−	0.1+	2000 04 08	704	0.5−	1.1−
1991 10 02	413	0.7−	0.2+	2000 03 08	704	1.0−	0.4+	2000 04 08	704	0.8−	0.9+
1991 10 05	413	0.6+	0.4+	2000 03 08	704	0.2+	0.5+	2000 04 13	704	0.3+	0.2+
1991 10 07	413	0.5+	0.6+	2000 03 08	704	0.1−	0.5+	2000 04 13	704	0.3+	0.3−
1991 10 15	413	0.7−	0.5−	2000 04 04	704	0.2+	0.1+	2000 04 13	704	1.2+	0.9+
1999 01 15	699	0.2+	0.5−	2000 04 04	704	0.0	0.4+	2000 04 13	704	0.7+	0.3−
1999 01 15	699	0.9−	0.6−	2000 04 04	704	0.4−	1.0+	2000 04 13	704	0.2−	0.4−
1999 01 15	699	1.1−	0.6+	2000 04 04	704	0.0	0.1−				

1991 TA₉ = 1999 VF₁₅₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.12550154	ω	329.96287	+0.99423742	−0.09439605		
a	3.9509665	Ω	35.56447	+0.10719402	+0.88066518		
e	0.1704173	i	5.01143	−0.00118464	+0.46423940		
P	7.85	H	13.9	G	0.15	U	4

Residuals in seconds of arc

1991 10 01	691	0.6−	0.2−	1999 10 10	704	0.4−	0.4+	1999 11 14	704	0.1+	0.3−
1991 10 01	691	0.6−	0.2+	1999 10 10	704	0.0	0.2+	1999 11 14	704	0.2+	0.3−
1991 10 01	691	0.6−	0.0	1999 10 13	691	0.0	0.0	1999 11 14	704	0.5−	0.7−
1991 10 11	691	0.1−	0.6+	1999 10 13	691	0.2+	0.0	1999 11 14	704	0.1−	1.0−
1991 10 11	691	0.6−	0.2−	1999 10 13	691	0.0	0.2−	1999 11 15	704	0.2+	0.8−
1991 10 11	691	0.4−	0.2+	1999 10 15	704	0.2+	0.4−	1999 11 15	704	0.3+	0.9−
1991 10 13	691	0.5+	0.1+	1999 10 15	704	0.8+	0.1+	1999 11 15	704	0.3−	0.5+
1991 10 13	691	0.5+	0.4−	1999 10 15	704	0.8+	0.7−	1999 11 15	704	0.0	0.2+
1991 10 13	691	1.9+	0.5−	1999 10 15	704	0.6−	0.1+	1999 11 15	704	0.1−	1.0−
1999 10 01	691	0.2+	0.1+	1999 10 21	704	0.7+	0.8+	1999 11 16	704	(3.6+	0.5−)
1999 10 01	691	0.2+	0.1−	1999 10 21	704	0.7+	0.2+	1999 11 16	704	0.9+	0.2−
1999 10 01	691	0.2+	0.1−	1999 10 21	704	0.0	0.6+	1999 11 16	704	0.6−	0.1−
1999 10 07	691	0.0	0.1+	1999 11 04	704	0.1−	1.3+	1999 11 16	704	0.1−	0.5+
1999 10 07	691	0.1+	0.1+	1999 11 04	704	0.3+	0.1+	1999 11 17	691	0.0	0.3+
1999 10 07	691	0.1+	0.1+	1999 11 04	704	1.5−	1.3+	1999 11 17	691	0.1−	0.3+
1999 10 10	704	1.0−	0.3+	1999 11 04	704	0.5−	0.7+	1999 11 17	691	0.4−	0.3+
1999 10 10	704	0.2−	0.9−	1999 11 04	704	0.0	0.1−				
1999 10 10	704	0.5−	0.5−	1999 11 14	704	0.7+	0.1−				

1991 TE₁₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.17284069	ω	349.98521	+0.99562222	−0.00069800		
a	3.1918224	Ω	11.38281	+0.07331506	+0.62609413		
e	0.1676095	i	28.26654	−0.05797672	+0.77974717		
P	5.70	H	13.3	G	0.15	U	4

Residuals in seconds of arc

1991 09 12	675	0.9+	0.4−	1991 10 08	675	(3.3−	0.7−)	2000 03 26	699	0.2+	1.3+
1991 09 12	675	0.3+	1.0+	2000 03 12	703	0.6−	0.6+	2000 03 26	699	0.3−	0.5−
1991 09 15	675	0.2+	0.8−	2000 03 12	703	0.5+	1.2+	2000 04 07	699	0.9+	0.8−
1991 09 17	675	0.5+	0.3−	2000 03 12	703	0.9+	0.6−	2000 04 07	699	0.3+	0.0
1991 09 17	675	1.2−	1.3+	2000 03 12	703	0.8−	0.3−	2000 04 07	699	0.5−	0.1+
1991 10 02	675	0.9+	0.1−	2000 03 12	704	0.2−	1.1−	2000 04 07	699	0.2−	0.9+
1991 10 02	675	1.1−	0.2+	2000 03 12	704	0.9+	0.1−	2000 04 07	699	0.5−	0.1−
1991 10 03	675	0.3+	0.5+	2000 03 12	704	0.5−	0.2−	2000 04 07	699	0.6+	0.5+
1991 10 03	675	0.4−	0.2−	2000 03 12	704	0.4−	0.1−	2000 04 07	699	0.4+	0.3−
1991 10 07	675	0.3+	0.5+	2000 03 26	699	0.4−	0.2+	2000 04 07	699	0.3−	0.2+
1991 10 07	675	0.8−	1.5−	2000 03 26	699	0.0	0.6−				

1991 VQ₂ = 2000 FR₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.27489713	ω	31.38127	+0.44977134	−0.86465574		
a	2.3425520	Ω	33.46405	+0.71211507	+0.19594677		
e	0.2427288	i	23.94279	+0.53907130	+0.46257465		
P	3.59	H	13.1	G	0.15	U	2

Residuals in seconds of arc

1991 11 01	675	0.7+	1.3−	1998 12 08	704	0.9+	1.4+	2000 04 03	704	0.2−	0.0
1991 11 01	675	0.3−	1.0−	1998 12 08	704	0.7−	0.1−	2000 04 03	704	0.2−	0.1+
1991 11 05	675	0.6+	0.7+	1998 12 08	704	0.7−	0.3−	2000 04 03	704	0.0	0.2−
1991 11 05	675	0.7+	0.1+	2000 03 05	704	0.2+	0.7+	2000 04 03	704	0.2−	0.5−
1991 11 06	675	0.8+	0.7−	2000 03 05	704	0.4+	0.2+	2000 04 08	704	0.1+	0.1+
1991 11 06	675	0.2+	0.3+	2000 03 05	704	0.5+	0.1−	2000 04 08	704	0.2+	0.2+
1991 12 08	675	(0.0	3.2−)	2000 03 29	704	0.1+	0.6+	2000 04 08	704	0.2+	0.1+
1991 12 08	675	0.5+	0.9−	2000 03 29	704	0.1+	0.4+	2000 04 08	704	0.1−	0.4+
1993 04 15	691	0.6−	0.6−	2000 03 29	704	0.1−	0.7+	2000 04 08	704	0.3+	0.8+
1993 04 15	691	0.8−	0.7−	2000 03 29	704	0.1+	0.1−	2000 04 10	608	0.4−	1.4−
1993 04 15	691	1.0−	0.6−	2000 03 29	704	0.1−	0.3+	2000 04 10	608	0.1−	1.4−
1998 12 08	704	1.5−	0.5+	2000 04 03	704	0.0	0.1+	2000 04 10	608	0.5−	1.3−

1991 VF₃ = 2000 BQ₂₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M		(2000.0)		P		Q	
n	0.26109134	ω	328.02435	+0.98210575	−0.08599959		
a	2.4244194	Ω	38.04266	+0.16865555	+0.79751386		
e	0.2335442	i	15.77642	−0.08380694	+0.59713961		
P	3.77	H	14.2	G	0.15	U	4

Residuals in seconds of arc

1991 11 03	675	0.4+	0.7+	1999 12 12	703	0.1+	0.0	2000 01 27	704	0.1+	0.1+
1991 11 04	675	0.5+	0.0	1999 12 30	704	0.2−	0.3−	2000 01 27	704	0.1+	0.8+
1991 11 05	675	0.3−	0.6+	1999 12 30	704	0.9−	0.9+	2000 02 02	704	0.3−	0.5−
1991 11 05	675	0.6−	1.4−	1999 12 30	704	0.9+	0.2+	2000 02 02	704	0.1+	0.2+
1999 12 12	703	0.1+	0.5+	1999 12 30	704	0.5+	1.4−	2000 02 02	704	0.5+	0.1−
1999 12 12	703	0.4−	0.2+	1999 12 30	704	0.7+	0.3+	2000 02 02	704	0.4−	0.4−
1999 12 12	703	0.3−	0.2+	2000 01 27	704	0.0	0.1−	2000 02 02	704	0.7−	0.6−

1991 VE₅ = 1968 UM₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	242.60074		(2000.0)	P	Q
<i>n</i>	0.30088757	ω	221.88258	+0.88296611	+0.46540703
<i>a</i>	2.2056328	Ω	110.28392	-0.41145404	+0.83020798
<i>e</i>	0.2005755	<i>i</i>	3.75183	-0.22600091	+0.30684036
<i>P</i>	3.28	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1968 10 23	095	0.7+	2.2-	1993 02 26	691	0.5-	0.4-	1999 01 16	704	1.8-	1.7+
1990 04 01	675	0.9+	0.4+	1996 06 19	704	0.4+	1.3-	1999 01 19	704	0.7+	0.9-
1990 04 01	675	0.2-	0.1-	1996 06 19	704	0.1+	0.4-	1999 01 19	704	0.9+	0.0
1991 11 04	894	2.1-	0.4+	1996 06 19	704	(1.6-	4.0-)	1999 01 19	704	0.1+	1.2-
1991 11 04	894	(0.2-	2.4-)	1997 05 29	124	(3.4+	1.9+)	1999 01 19	704	0.6+	0.1-
1991 11 05	894	1.2-	0.0	1997 05 29	124	(3.1+	2.4+)	2000 04 07	704	0.3+	0.1-
1991 11 05	894	0.0	0.1-	1997 05 29	124	(3.0+	2.5+)	2000 04 07	704	0.8+	0.2+
1991 11 10	894	1.0+	0.4-	1997 05 29	124	(3.5+	3.4+)	2000 04 07	704	0.3+	0.3+
1991 11 10	894	0.1+	0.1-	1998 12 01	699	0.5+	0.7-	2000 04 07	704	0.5+	0.3+
1991 12 03	894	1.1+	0.7+	1998 12 01	699	0.8-	0.6+	2000 04 07	704	0.7+	0.2+
1991 12 03	894	0.6+	0.8+	1998 12 01	699	0.1-	0.6-	2000 04 12	608	0.9-	0.4-
1991 12 04	399	0.5+	0.0	1999 01 16	704	0.0	0.1+	2000 04 12	608	1.0-	0.1-
1991 12 04	399	0.1+	1.0+	1999 01 16	704	0.0	0.5+	2000 04 12	608	0.8-	0.1-
1993 02 26	691	0.1-	0.5-	1999 01 16	704	0.5+	0.2+				
1993 02 26	691	0.3-	0.5-	1999 01 16	704	1.2-	1.1+				

1991 VN₈ = 2000 GD₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	234.07395		(2000.0)	P	Q
<i>n</i>	0.29365876	ω	178.97412	+0.81137188	+0.58433190
<i>a</i>	2.2416824	Ω	145.25571	-0.53648619	+0.75477384
<i>e</i>	0.1404515	<i>i</i>	1.53117	-0.23207379	+0.29811521
<i>P</i>	3.36	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 10 17	675	1.3+	0.3-	1991 11 06	691	0.2-	0.5+	2000 04 06	704	0.0	0.3+
1991 11 04	691	0.3-	0.1+	1994 10 11	608	0.1-	0.4+	2000 04 06	704	0.1+	0.3+
1991 11 04	691	0.2-	0.0	1994 10 11	608	0.3-	0.7+	2000 04 06	704	0.4+	0.2+
1991 11 04	691	0.2-	0.2+	2000 04 05	704	0.7+	0.4+	2000 04 07	704	0.2-	0.4+
1991 11 05	691	0.2+	0.1+	2000 04 05	704	0.4+	0.5-	2000 04 07	704	0.5-	0.3+
1991 11 05	691	0.4-	0.4+	2000 04 05	704	0.5+	0.2-	2000 04 07	704	0.1+	0.4+
1991 11 05	691	0.3-	0.0	2000 04 05	704	0.3+	0.4-	2000 04 07	704	1.3-	0.4+
1991 11 06	691	0.1-	0.3-	2000 04 06	704	0.3+	0.2-				
1991 11 06	691	0.2-	0.2+	2000 04 06	704	0.0	0.3+				

1991 VQ₉ = 1998 XF₂₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	206.84177		(2000.0)	P	Q
<i>n</i>	0.28567480	ω	197.71144	+0.87760177	+0.47871832
<i>a</i>	2.2832568	Ω	133.65916	-0.43547856	+0.81822760
<i>e</i>	0.1234162	<i>i</i>	2.01006	-0.20043342	+0.31832746
<i>P</i>	3.45	<i>H</i>	16.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 11 04	691	0.7-	0.1-	1991 11 08	691	0.2-	0.0	1998 12 20	691	0.5+	0.2-
1991 11 04	691	0.6-	0.5-	1991 11 08	691	0.3-	0.2-	1998 12 20	691	1.1+	0.0
1991 11 04	691	0.1+	0.3+	1991 11 08	691	0.6+	0.3+	1998 12 20	691	1.0+	0.4+
1991 11 05	691	0.2+	0.3-	1991 11 08	691	0.0	0.1-	2000 03 11	704	(7.0-	0.1-)
1991 11 05	691	0.2+	0.2+	1991 11 08	691	0.6-	0.1-	2000 03 11	704	(3.4-	0.1+)
1991 11 05	691	0.1+	0.3+	1991 11 08	691	0.2-	0.2-	2000 03 11	704	0.2+	0.6+
1991 11 07	691	1.2+	0.0	1998 12 13	691	0.9-	0.6-	2000 03 11	704	(3.6+	0.7+)
1991 11 07	691	0.3-	1.5+	1998 12 13	691	0.6-	0.4-	2000 03 11	704	(7.6+	0.6+)
1991 11 07	691	0.1+	0.3+	1998 12 13	691	0.6-	0.5-				

1992 DN₃ = 2000 GH₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	35.95662		(2000.0)	P	Q
<i>n</i>	0.25423628	ω	4.44476	-0.79243475	-0.60916395
<i>a</i>	2.4678061	Ω	137.97413	+0.55818309	-0.74477890
<i>e</i>	0.1215857	<i>i</i>	2.66158	+0.24592440	-0.27244020
<i>P</i>	3.88	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1992 02 25	691	0.1+	0.1+	1998 11 10	704	1.3+	0.1+	2000 04 07	704	(1.7+	2.4-)
1992 02 25	691	0.5+	1.0-	1998 11 10	704	0.1+	0.5+	2000 04 08	704	0.7+	1.0-
1992 02 25	691	0.6+	0.8-	1998 11 10	704	0.5-	1.4+	2000 04 08	704	0.3-	0.1+
1992 03 05	691	0.4-	0.5-	2000 03 14	703	0.4+	0.4-	2000 04 08	704	0.4+	0.7+
1992 03 05	691	0.2-	0.7-	2000 03 14	703	0.5-	0.2+	2000 04 08	704	0.9+	1.0+
1992 03 05	691	0.3-	0.1-	2000 03 14	703	1.1-	0.3+	2000 04 08	704	0.4+	0.7+
1992 03 06	809	0.6-	1.3+	2000 03 14	703	0.4+	0.8+	2000 04 12	608	0.4+	0.3-
1992 03 06	691	0.0	0.2-	2000 03 29	704	0.0	0.7+	2000 04 12	608	0.5+	0.4-
1992 03 06	691	0.7-	0.0	2000 03 29	704	0.2-	0.4-	2000 04 12	608	0.4+	0.5-
1992 03 08	809	0.4+	0.4+	2000 03 29	704	0.5-	0.1+	2000 04 14	704	1.1-	0.7+
1992 03 09	809	0.9+	0.2+	2000 03 29	704	0.5-	0.0	2000 04 14	704	0.2-	0.3-
1992 04 06	809	0.9-	0.0	2000 03 29	704	0.5-	0.2-	2000 04 14	704	0.7+	0.8+
1993 07 12	809	1.2+	0.2-	2000 04 07	704	0.1+	0.7-	2000 04 14	704	0.5-	0.7+
1993 07 12	809	0.2+	0.0	2000 04 07	704	0.2+	0.7-	2000 04 14	704	0.2-	1.3+
1993 07 12	809	1.5-	0.2-	2000 04 07	704	0.4+	0.6-				
1998 11 10	704	1.5-	0.4-	2000 04 07	704	0.6+	0.4-				

1992 GD₄ = 2000 EX₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	344.98176		(2000.0)	P	Q
<i>n</i>	0.23983070	ω	336.20140	-0.98169021	+0.17890532
<i>a</i>	2.5656625	Ω	214.30753	-0.15077932	-0.93963967
<i>e</i>	0.1361183	<i>i</i>	6.66324	-0.11640418	-0.29166793
<i>P</i>	4.11	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1992 04 04	809	0.2-	0.2+	2000 03 06	608	0.1-	0.6-	2000 04 02	699	0.0	0.6+
1992 04 04	809	0.2-	0.1+	2000 03 06	608	0.4-	0.4-	2000 04 02	699	0.0	0.9+
1992 04 04	809	0.4-	0.3+	2000 03 09	704	0.1-	0.3-	2000 04 04	704	0.4-	0.5+
1992 04 06	809	0.8+	0.5-	2000 03 09	704	0.2+	0.0	2000 04 04	704	0.7-	0.1-
1992 04 06	809	0.3+	0.5-	2000 03 09	704	0.1+	0.1+	2000 04 04	704	0.9-	0.1-
1992 04 06	809	0.7+	1.0-	2000 03 09	704	0.2-	0.6+	2000 04 04	704	0.1-	0.5+
1992 04 25	809	0.5-	0.1-	2000 03 09	704	0.1-	0.1-	2000 04 04	704	0.3-	0.5+
1992 04 25	809	0.6-	0.1+	2000 03 13	704	0.5+	0.1-	2000 04 08	704	0.4+	0.0
1992 04 25	809	0.1+	0.5+	2000 03 13	704	0.4+	0.7-	2000 04 08	704	0.0	0.0
2000 03 01	703	0.2+	0.1-	2000 03 13	704	0.6+	0.2+	2000 04 08	704	0.2+	0.2+
2000 03 01	703	0.3-	0.1-	2000 03 13	704	0.7+	0.0	2000 04 08	704	0.4-	0.1-
2000 03 01	703	0.6+	0.5-	2000 03 13	704	0.0	0.1+	2000 04 08	704	0.0	0.3+
2000 03 01	703	0.6+	0.7-	2000 04 02	699	0.1+	0.7+				
2000 03 06	608	0.2-	0.7-	2000 04 02	699	0.2-	0.1+				

1992 RH₅ = 1994 XL₄ = 1998 XG₇₁ = 2000 EE₁₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	160.46377		(2000.0)	P	Q
<i>n</i>	0.19213057	ω	290.80017	+0.99746810	+0.04712269
<i>a</i>	2.9744390	Ω	66.53042	-0.02056182	+0.90806552
<i>e</i>	0.1001309	<i>i</i>	3.32879	-0.06807791	+0.41616880
<i>P</i>	5.13	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1992 09 02	809	0.1-	1.3-	1998 12 14	704	0.4-	0.2+	2000 03 08	704	0.0	0.5-
1992 09 02	809	0.6-	1.2-	1998 12 14	704	0.2-	0.3-	2000 03 08	704	0.3+	1.1-
1992 09 02	809	1.4-	1.7-	1998 12 14	704	0.2-	0.6-	2000 03 08	704	0.3+	1.3-
1992 09 03	809	1.6-	0.5-	1998 12 17	704	1.2-	0.3-	2000 03 08	704	0.1+	0.2-
1992 09 22	809	1.5+	1.2+	1998 12 17	704	0.3+	0.8-	2000 03 09	704	0.4+	0.1-

2000 APR. 18

M.P.C. 39945

1992 09 22	809	1.4+	0.7+	1998 12 17	704	0.3+	1.8+	2000 03 09	704	0.0	0.5-
1992 09 22	809	0.9+	0.1+	1998 12 17	704	0.6+	0.2-	2000 03 09	704	0.1+	0.3-
1992 09 23	809	0.3+	0.4-	2000 03 02	703	0.0	0.4+	2000 03 09	704	0.2+	0.2-
1992 09 23	809	0.7+	0.1+	2000 03 02	703	0.2+	0.9-	2000 03 09	704	0.2+	0.1+
1992 09 23	809	0.5+	0.5-	2000 03 02	703	1.1-	0.2+	2000 03 12	704	1.0+	0.9+
1994 12 08	691	0.1-	0.3-	2000 03 02	703	0.0	0.5+	2000 03 12	704	1.2-	0.2+
1994 12 08	691	0.1+	0.7-	2000 03 05	704	0.2+	0.0	2000 03 12	704	0.4-	0.9+
1994 12 08	691	0.2+	0.2-	2000 03 05	704	0.3+	0.3-	2000 04 03	699	1.3-	1.1-
1994 12 09	691	0.7-	0.0	2000 03 05	704	0.1+	0.2-	2000 04 03	699	0.6-	0.3-
1994 12 09	691	0.1-	0.4+	2000 03 05	704	0.4+	0.3+	2000 04 03	699	0.2-	0.3-
1994 12 09	691	0.1-	0.1-	2000 03 05	704	0.5+	0.5+	2000 04 03	699	1.3-	0.1-
1998 12 14	704	0.6+	0.6+	2000 03 08	704	0.6+	0.4+				

1992 RN₆ = 2000 DS₁₀₂

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	169.40138		(2000.0)				
<i>n</i>	0.19280828	ω	334.83256	+0.98005409	+0.19382919		
<i>a</i>	2.9674649	Ω	14.20003	-0.13820544	+0.82337134		
<i>e</i>	0.1185517	<i>i</i>	10.30104	-0.14280488	+0.53337593		
<i>P</i>	5.11	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 09 02	809	(2.2+	4.4-)	1998 12 14	704	1.2-	0.1+	2000 03 05	704	0.9-	0.1-
1992 09 02	809	(1.4+	3.4-)	1998 12 14	704	(5.0-	0.9+)	2000 03 05	704	0.7-	0.7-
1992 09 02	809	(1.1+	3.2-)	2000 02 11	704	0.6+	0.3+	2000 03 05	704	0.3+	0.0
1992 09 03	809	(2.1+	4.0-)	2000 02 11	704	1.2+	0.4-	2000 03 12	704	1.1+	0.6+
1992 09 22	809	0.5+	1.0+	2000 02 11	704	0.2+	0.4+	2000 03 12	704	0.5+	0.4-
1992 09 22	809	1.0-	0.2-	2000 02 29	704	0.5-	0.7-	2000 03 12	704	0.3+	0.2-
1992 09 22	809	0.7-	0.1-	2000 02 29	704	0.1+	0.9-	2000 03 12	704	0.9+	0.8+
1992 09 23	809	0.8+	0.1-	2000 02 29	704	0.2+	0.1-	2000 03 12	704	0.3-	0.4+
1992 09 23	809	0.0	0.7-	2000 02 29	704	0.3+	0.7-	2000 04 03	699	0.9+	0.1+
1992 09 23	809	1.2+	1.0-	2000 02 29	704	0.5+	0.4-	2000 04 03	699	1.9-	0.2-
1998 12 14	704	0.2+	0.6+	2000 03 05	704	0.9-	0.2+	2000 04 03	699	0.8-	0.6+
1998 12 14	704	0.9+	0.4-	2000 03 05	704	0.9-	0.2-	2000 04 03	699	1.1-	0.3+

1992 RW₆ = 2000 EZ₁₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	230.41802		(2000.0)				
<i>n</i>	0.20177436	ω	211.97312	+0.59452837	+0.80169400		
<i>a</i>	2.8788921	Ω	94.57836	-0.72404366	+0.56721168		
<i>e</i>	0.0631791	<i>i</i>	3.55613	-0.34970960	+0.18856732		
<i>P</i>	4.88	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 09 02	809	(3.4+	1.6+)	2000 03 05	608	0.1-	0.3-	2000 04 02	699	0.5+	0.4-
1992 09 02	809	(2.7+	1.6+)	2000 03 05	608	0.2-	0.6-	2000 04 02	699	0.1-	0.3+
1992 09 02	809	1.3+	0.9+	2000 03 11	699	0.2-	0.3-	2000 04 02	699	0.1+	0.2-
1992 09 03	809	(1.1+	2.5+)	2000 03 11	699	0.4-	0.0	2000 04 02	699	0.2+	0.1+
1992 09 22	809	0.6+	0.4+	2000 03 11	699	0.4-	0.4-	2000 04 05	704	0.4-	0.1-
1992 09 22	809	0.5-	0.7-	2000 03 11	699	0.5+	0.4+	2000 04 05	704	0.3+	0.6-
1992 09 22	809	0.6-	0.6-	2000 03 12	704	0.1+	0.3-	2000 04 05	704	0.5-	0.3+
1992 09 23	809	0.7-	0.5+	2000 03 12	704	0.3-	0.4+	2000 04 05	704	0.2-	0.1-
1992 09 23	809	0.1+	0.4+	2000 03 12	704	0.0	0.9-	2000 04 08	704	0.1+	0.4+
1992 09 23	809	0.2-	0.7-	2000 03 12	704	0.6-	0.7+	2000 04 08	704	0.2+	0.3+
2000 02 11	704	0.3+	0.1-	2000 03 12	704	0.6+	1.0+	2000 04 08	704	0.4+	0.1-
2000 02 11	704	0.3+	0.5+	2000 03 28	704	0.9-	0.2+	2000 04 08	704	0.4+	1.0+
2000 02 11	704	0.3-	0.4+	2000 03 28	704	0.8+	0.8+	2000 04 08	704	0.2+	0.3-
2000 02 11	704	0.0	0.3+	2000 03 28	704	0.2+	0.9-				
2000 03 05	608	0.1-	0.4-	2000 03 28	704	0.7-	1.0-				

1992 RY₆ = 2000 EC₁₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	249.78562		(2000.0)				
<i>n</i>	0.21034751	ω	140.60464	+0.47142898	+0.88022299		
<i>a</i>	2.8001274	Ω	157.36310	-0.84062962	+0.46716786		
<i>e</i>	0.2136846	<i>i</i>	8.12926	-0.26663939	+0.08343663		
<i>P</i>	4.69	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 09 02	809	0.3+	0.3+	1992 09 23	809	0.8-	0.9-	2000 03 11	704	0.8+	0.1-
1992 09 02	809	0.9+	0.5+	1992 09 29	691	0.8+	1.2+	2000 03 11	699	0.5+	0.4-
1992 09 02	809	0.2+	0.8-	1992 09 29	691	0.2+	1.4+	2000 03 11	704	1.0+	0.6-
1992 09 03	809	0.2-	0.1+	1992 09 29	691	0.0	1.0+	2000 03 11	704	0.7-	0.3-
1992 09 22	809	0.2+	0.3-	2000 03 03	704	0.3-	0.1+	2000 03 11	699	0.6+	1.1-
1992 09 22	809	0.6+	0.3-	2000 03 03	704	0.8-	1.0-	2000 03 11	704	0.4+	0.4-
1992 09 22	809	0.6-	1.5-	2000 03 03	704	1.3-	0.6-	2000 03 11	699	0.9+	1.4+
1992 09 23	809	0.0	0.7-	2000 03 03	704	0.3+	0.0	2000 03 11	704	0.3+	0.1-
1992 09 23	809	1.3-	0.8-	2000 03 03	704	0.6-	1.1+	2000 03 11	699	1.4-	1.3+

1992 WV = 1998 KY₅₇ = 1999 RJ₁₁₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P	Q		
<i>M</i>	337.44092		(2000.0)				
<i>n</i>	0.26197482	ω	185.40447	+0.57847464	-0.81236957		
<i>a</i>	2.4189655	Ω	229.27593	+0.75198374	+0.56608959		
<i>e</i>	0.1620315	<i>i</i>	5.57610	+0.31604992	+0.13999378		
<i>P</i>	3.76	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 11 16	400	1.3-	0.4+	1998 05 23	704	1.4-	1.3+	1999 09 09	704	0.6+	0.0
1992 11 16	400	0.7+	1.2-	1998 05 23	704	0.0	0.6-	1999 09 09	704	0.1-	0.5-
1992 11 17	400	1.4+	1.0-	1998 05 24	704	(2.8+	1.2-)	1999 09 09	704	0.0	0.1-
1992 11 17	400	(3.0+	0.7-)	1998 05 24	704	(0.0	2.7-)	1999 09 09	704	0.0	0.3-
1992 11 25	675	0.7+	0.4-	1998 05 24	704	1.3+	1.3-	1999 09 14	704	0.0	1.2+
1992 11 25	675	0.4+	0.1+	1998 05 24	704	0.4-	1.0+	1999 09 14	704	0.2+	0.5-
1992 11 27	372	1.4-	1.3-	1999 07 13	704	(0.1+	2.2+)	1999 09 14	704	0.7-	0.5-
1992 11 27	372	1.3-	1.2+	1999 07 13	704	0.0	1.4-	1999 09 14	704	0.3+	0.3-
1992 11 27	400	1.2-	2.0-	1999 07 13	704	0.3+	0.5+	1999 09 30	704	0.0	0.1+
1992 11 27	400	(2.6+	2.1+)	1999 07 13	704	0.2+	0.5-	1999 09 30	704	0.2-	0.1+
1992 11 28	675	1.2+	0.2-	1999 07 13	704	0.0	0.6-	1999 09 30	704	0.2-	1.1-
1992 11 28	675	1.4+	0.3-	1999 07 13	704	0.1+	0.2+	1999 10 08	704	1.2-	1.1+
1998 05 01	704	0.6+	1.5-	1999 07 13	704	0.3-	0.4+	1999 10 08	704	0.4-	0.1-
1998 05 01	704	0.4+	0.6-	1999 07 13	704	0.6+	0.1+	1999 10 08	704	0.3-	0.1-
1998 05 01	704	0.2+	0.6-	1999 09 08	703	0.3+	0.3+	1999 10 08	704	0.7+	0.7-
1998 05 01	704	0.0	1.9-	1999 09 08	703	0.0	0.2+	1999 11 08	704	0.2-	0.3-
1998 05 23	704	(0.2-	2.5-)	1999 09 08	703	0.0	0.9+	1999 11 08	704	0.2-	0.7+
1998 05 23	704	0.8-	0.0	1999 09 08	703	0.2+	0.5+	1999 11 08	704	0.5+	0.0
1998 05 23	704	1.3-	1.4-	1999 09 09	704	0.1+	0.6-				

1993 BO₁₀ = 1985 SY₂ = 1999 FY₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	257.06122		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17808048	ω	5.04764	+0.86928966	+0.48664757
a	3.1289011	Ω	325.39646	-0.45868738	+0.72882119
e	0.0648825	i	8.77736	-0.18423184	+0.48165735
P	5.53	H	12.7	G 0.15	U 4

1993 FT₂ = 2000 ED₇₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.27703147	ω	90.83471	−0.07182440	−0.99717377				
<i>a</i>	2.3305047	Ω	3.51920	+0.71097567	−0.06668229				
<i>e</i>	0.2863306	<i>i</i>	21.04142	+0.69953903	−0.03461125				
<i>P</i>	3.56	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1993 03 19	675	(9.1− 3.4−)	2000 01 06	704	0.0	0.1−	2000 04 02	699	0.0	0.1+
1993 03 19	675	(7.9− 4.0−)	2000 03 05	704	0.1+	0.0	2000 04 02	699	0.1+	0.2+
1993 03 21	809	0.4+ 0.9+	2000 03 05	704	0.1−	0.1−	2000 04 03	704	0.1+	0.1+
1993 03 21	675	0.7+ 1.0−	2000 03 05	704	0.2+	0.2−	2000 04 03	704	0.1+	0.2+
1993 03 21	675	(5.9− 3.7−)	2000 03 05	704	0.0	0.2−	2000 04 03	704	0.4+	0.1−
1993 03 22	809	1.0+ 0.4+	2000 03 05	704	0.1+	0.5−	2000 04 03	704	0.3+	0.6−
1993 03 26	809	0.9− 0.0	2000 03 12	704	0.1−	0.2+	2000 04 03	704	0.5+	0.7−
1993 03 26	033	0.1+ 0.1+	2000 03 12	704	0.0	0.2+	2000 04 09	608	0.2−	0.3−
1993 03 26	033	0.0 0.5−	2000 03 12	704	0.1+	0.0	2000 04 09	608	0.4−	0.3−
1993 04 17	413	1.2− 0.3+	2000 03 12	704	0.4−	0.1+	2000 04 09	608	0.4−	0.0
2000 01 06	704	0.1+ 0.1+	2000 03 12	704	0.2−	0.0	2000 04 10	704	0.2−	0.5+
2000 01 06	704	0.0 0.6+	2000 04 02	699	0.1+	0.3+	2000 04 10	704	0.1−	0.5+
2000 01 06	704	0.3− 0.4−	2000 04 02	699	0.2−	0.1+	2000 04 10	704	0.1+	0.5+

1993 FF₅ = 2000 DO₈₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.27213445	ω	87.11468	−0.53069477	−0.84696209				
<i>a</i>	2.3583795	Ω	34.99773	+0.75384761	−0.48888961				
<i>e</i>	0.1122245	<i>i</i>	3.18944	+0.38739752	−0.20890708				
<i>P</i>	3.62	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1993 03 17	809	0.3− 1.3+	2000 02 03	704	0.3+	0.1−	2000 03 04	704	1.0+	0.7+
1993 03 18	809	1.0+ 0.8−	2000 02 03	704	0.0	0.2+	2000 03 04	704	0.1+	0.4+
1993 03 23	809	0.5+ 0.2+	2000 02 11	704	0.4+	0.4+	2000 03 04	704	0.2+	0.4+
1993 03 23	691	0.5− 0.4−	2000 02 11	704	1.2−	0.8−	2000 03 04	704	0.3−	0.0
1993 03 23	691	0.5− 0.5−	2000 02 11	704	0.4+	0.5+	2000 03 05	704	0.1+	0.3−
1993 03 23	691	0.4− 0.5−	2000 02 11	704	1.0+	1.0+	2000 03 05	704	0.8+	0.1−
2000 01 30	703	0.5+ 2.0−	2000 02 11	704	0.8−	0.6+	2000 03 05	704	0.8+	0.3+
2000 01 30	703	0.4− 0.6−	2000 02 28	704	0.8−	0.3+	2000 03 05	704	0.3+	0.2−
2000 01 30	703	0.5+ 0.6−	2000 02 28	704	0.1−	0.3+	2000 03 05	704	1.2+	0.5−
2000 01 30	703	1.3− 0.4−	2000 02 28	704	0.7−	0.5+	2000 03 09	608	0.6−	0.0
2000 02 03	704	0.3− 0.1−	2000 02 28	704	0.1−	0.7+	2000 03 09	608	0.5−	1.2−
2000 02 03	704	0.3+ 0.0	2000 02 28	704	0.3−	1.0+	2000 03 09	608	0.5−	0.1+
2000 02 03	704	0.0 0.0	2000 03 04	704	0.5+	0.0				

1993 FM_s

Id. E. Bowell (1994, 2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.27832646	ω	246.96667	+0.54211053	+0.83778765				
<i>a</i>	2.3232702	Ω	56.02112	−0.73941454	+0.51235417				
<i>e</i>	0.1525568	<i>i</i>	4.49734	−0.39922715	+0.18869304				
<i>P</i>	3.54	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1		

Residuals in seconds of arc

1993 03 17	809	0.7− 1.1−	2000 03 02	703	0.4−	1.1+	2000 04 03	704	0.5+	0.3−
1993 03 18	809	0.4+ 0.7−	2000 03 12	704	0.3−	0.1+	2000 04 06	608	0.7−	0.8−
1993 03 23	809	0.1+ 0.3−	2000 03 12	704	0.2−	0.4+	2000 04 06	608	0.4−	0.7−
1993 04 16	413	0.9− 0.1+	2000 03 12	704	0.1+	0.1−	2000 04 06	608	0.3+	0.2−
1994 09 11	675	0.1+ 0.1+	2000 03 12	704	0.6−	0.2−	2000 04 08	704	1.7+	0.9−
1994 09 11	675	0.2− 0.1+	2000 03 12	704	0.4+	1.2+	2000 04 08	704	0.7+	0.2−

1998 12 17	704	0.4+ 0.3−	2000 04 02	699	0.4−	0.2−	2000 04 08	704	0.9−	0.6−
1998 12 17	704	0.3+ 0.7−	2000 04 02	699	0.1−	0.2+	2000 04 08	704	0.6+	0.8−
1998 12 17	704	1.1+ 0.7+	2000 04 02	699	0.9−	0.4+	2000 04 08	704	0.6−	0.8+
1998 12 17	704	0.4− 0.6+	2000 04 02	699	0.7−	0.4+	2000 04 10	704	0.7+	0.4+
1998 12 17	704	1.3− 0.9−	2000 04 03	704	0.6+	0.3+	2000 04 10	704	0.0	0.2+
2000 03 02	703	1.0+ 0.1+	2000 04 03	704	0.3−	0.7+	2000 04 10	704	0.3−	0.2+
2000 03 02	703	0.0 0.2+	2000 04 03	704	0.6+	1.2+	2000 04 10	704	0.3+	1.1−
2000 03 02	703	0.6+ 0.1−	2000 04 03	704	0.1−	0.7+				

1993 FK₁₀ = 2000 GF₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.28586511	ω	251.31931	+0.04386075	+0.99794973				
<i>a</i>	2.2822433	Ω	21.35726	−0.86159548	+0.06140180				
<i>e</i>	0.0853657	<i>i</i>	7.35332	−0.50569701	−0.01805961				
<i>P</i>	3.45	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1993 03 17	809	0.4− 0.2+	2000 04 05	704	0.0	0.3−	2000 04 07	704	0.1+	0.5+
1993 03 18	809	0.8− 0.6−	2000 04 05	704	0.1−	0.1−	2000 04 07	704	0.2+	0.0
1993 03 23	809	1.6+ 1.1+	2000 04 05	704	0.1−	0.1+	2000 04 07	704	0.1+	0.6−
1993 03 23	691	0.3− 1.0−	2000 04 05	704	0.1−	0.1+	2000 04 07	704	0.5+	0.1+
1993 03 23	691	0.3− 1.1−	2000 04 05	704	0.0	0.1+	2000 04 07	704	0.7+	0.7+
1993 03 23	691	0.0 0.8−	2000 04 05	704	0.4−	0.3−	2000 04 10	704	0.2−	1.1+
1993 04 17	413	1.2− 0.2−	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.2−	0.1+
1998 12 17	704	1.9+ 0.8+	2000 04 05	704	0.1+	0.2+	2000 04 10	704	0.2−	0.4+
1998 12 17	704	0.0 1.7+	2000 04 05	704	0.2+	0.3−	2000 04 10	704	0.0	0.2+
1998 12 17	704	1.5− 0.1−	2000 04 05	704	0.1−	0.1+	2000 04 10	704	(2.4− 0.6+)	
1998 12 17	704	0.6− 1.8−	2000 04 06	704	0.0	0.3−	2000 04 13	608	0.0	0.1−
2000 03 14	703	0.0 0.1+	2000 04 06	704	0.2+	0.1−	2000 04 13	608	0.0	0.1−
2000 03 14	703	0.3− 0.5+	2000 04 06	704	0.5+	0.2−	2000 04 13	608	0.1−	0.2−
2000 03 14	703	0.2− 0.7+	2000 04 06	704	0.4+	0.3−				
2000 03 14	703	0.4+ 0.4+	2000 04 06	704	0.1−	0.2−				

1993 FZ₁₁ = 2000 FN₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.28460818	ω	288.12964	+0.97411461	+0.21217051				
<i>a</i>	2.2889579	Ω	59.68519	−0.15769633	+0.88503819				
<i>e</i>	0.1940372	<i>i</i>	5.18418	−0.16196480	+0.41435621				
<i>P</i>	3.46	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

1993 03 17	809	0.7− 0.3−	2000 03 29	704	0.5−	0.1+	2000 04 06	699	0.3+	0.2+
1993 03 18	809	0.6+ 0.3+	2000 03 29	704	0.2+	0.7+	2000 04 06	699	0.2−	0.4+
1993 03 23	809	1.5+ 0.0	2000 04 03	699	0.2−	0.0	2000 04 06	699	0.1+	0.2−
1993 04 16	413	1.4− 0.1−	2000 04 03	699	1.1−	0.7+	2000 04 06	699	0.5+	0.6+
2000 03 27	699	1.1− 0.4−	2000 04 03	699	0.6−	0.4+	2000 04 08	704	(3.7+ 0.1−)	
2000 03 27	699	0.6− 0.0	2000 04 03	699	0.9−	0.2−	2000 04 08	704	0.7+	0.2−
2000 03 27	699	1.3− 0.2+	2000 04 04	704	0.0	0.7−	2000 04 08	704	1.6+	0.2+
2000 03 27	699	0.4− 0.3−	2000 04 04	704	0.5+	0.3−	2000 04 08	704	1.0+	0.3−
2000 03 29	704	0.4+ 0.5−	2000 04 04	704	0.2+	0.1+	2000 04 08	704	1.0+	0.9−
2000 03 29	704	0.6+ 0.3−	2000 04 04	704	0.6−	0.2+				
2000 03 29	704	0.8+ 0.7+	2000 04 04	704	0.4−	0.1−				

1993 FV₁₄ = 2000 GX₁₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	251.94936		(2000.0)	P	Q
n	0.29082752	ω	190.55645	+0.83147306	+0.54946023
a	2.2562076	Ω	135.78572	−0.50075313	+0.80523560
e	0.1900433	i	6.76408	−0.24062182	+0.22291050
P	3.39	H	14.1	G 0.15	U 5

2000 APR. 18

M.P.C. 39947

Residuals in seconds of arc

1993 03 17	809	0.1−	0.7−	2000 04 07	704	0.2−	0.9+	2000 04 13	704	0.4−	0.9−
1993 03 18	809	0.3+	1.0−	2000 04 07	704	1.2+	0.5+	2000 04 13	704	1.0−	1.8−
1993 03 23	809	0.1+	0.6+	2000 04 09	699	0.8+	0.2−	2000 04 13	704	0.3−	0.3−
1993 04 16	413	0.2−	1.1+	2000 04 09	699	0.6+	0.0	2000 04 13	704	0.7−	0.4−
2000 04 07	704	0.5+	0.4+	2000 04 09	699	0.1+	0.4+				
2000 04 07	704	0.5−	1.1+	2000 04 09	699	0.0	0.2+				

1993 FQ₁₅ = 2000 DX₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	332.63250		(2000.0)	P	Q
<i>n</i>	0.12616720	ω	30.19494	−0.98920033	−0.10788285
<i>a</i>	3.9370574	Ω	143.19947	+0.07750929	−0.95956557
<i>e</i>	0.0836057	<i>i</i>	9.53378	+0.12439863	−0.25999079
<i>P</i>	7.81	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 03 17	809	0.9+	0.3+	2000 02 28	691	0.3+	0.0	2000 03 09	704	0.0	0.5−
1993 03 18	809	0.3+	0.5−	2000 02 29	704	0.3−	0.2−	2000 03 11	691	0.1−	0.4−
1993 03 23	809	1.5−	0.6−	2000 02 29	704	0.1−	0.3+	2000 03 11	691	0.2−	0.5−
1993 04 16	413	(3.8−	2.2−)	2000 02 29	704	0.0	0.2−	2000 03 11	691	0.2−	0.2−
1997 11 07	809	1.8−	1.2−	2000 02 29	704	0.0	0.8−	2000 03 11	704	0.2−	0.2−
1997 11 07	809	2.0+	0.7+	2000 02 29	704	0.3−	0.1−	2000 03 11	704	0.5+	0.3−
2000 02 02	704	0.1+	0.1−	2000 03 01	691	0.8−	0.5−	2000 03 11	704	0.3+	0.4+
2000 02 02	704	0.3−	0.1−	2000 03 01	691	0.4−	0.4−	2000 03 11	704	0.2−	0.3−
2000 02 02	704	0.1+	0.5+	2000 03 01	691	0.6−	0.4−	2000 03 11	704	0.1+	0.0
2000 02 02	704	0.0	0.1−	2000 03 09	704	0.5+	0.7+	2000 03 26	699	0.1+	0.4−
2000 02 02	704	0.5+	0.1+	2000 03 09	704	0.3+	0.6+	2000 03 26	699	1.2+	1.5+
2000 02 28	691	0.2−	0.2−	2000 03 09	704	0.9+	0.4+	2000 03 26	699	0.5−	0.9+
2000 02 28	691	0.1−	0.1−	2000 03 09	704	0.7+	0.0	2000 03 26	699	1.1−	1.4+

1993 FQ₁₇ = 2000 GB₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	61.55717		(2000.0)	P	Q
<i>n</i>	0.28500600	ω	350.53121	−0.40904437	−0.90824164
<i>a</i>	2.2868274	Ω	123.56526	+0.84399012	−0.41330565
<i>e</i>	0.1205805	<i>i</i>	6.07635	+0.34693426	−0.06538773
<i>P</i>	3.46	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 03 17	809	0.5+	0.4+	2000 04 04	704	0.4−	0.4+	2000 04 08	704	0.6+	2.0+
1993 03 18	809	1.1−	1.3+	2000 04 04	704	0.3+	0.2+	2000 04 13	704	0.3+	0.1+
1993 03 23	809	0.6+	1.7−	2000 04 04	704	0.2−	0.5−	2000 04 13	704	0.3−	0.8+
1993 04 16	413	(5.9−	6.4−)	2000 04 04	704	0.7−	0.4−	2000 04 13	704	0.2−	0.0
2000 03 08	704	0.8+	1.6−	2000 04 04	704	0.6−	0.2+	2000 04 13	608	0.7+	1.4−
2000 03 08	704	0.2+	0.4+	2000 04 08	704	0.5−	0.4+	2000 04 13	608	0.3+	1.2−
2000 03 08	704	0.3+	0.4+	2000 04 08	704	0.8−	1.3+	2000 04 13	608	0.6+	1.6−
2000 03 08	704	0.7−	0.1−	2000 04 08	704	0.5+	0.6+				
2000 03 08	704	0.3−	0.3+	2000 04 08	704	0.1+	0.1−				

1993 FH₁₈ = 2000 EL₁₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	0.61439		(2000.0)	P	Q
<i>n</i>	0.27843052	ω	53.47280	−0.97789660	−0.19816138
<i>a</i>	2.3226913	Ω	115.01218	+0.16046767	−0.91581771
<i>e</i>	0.0979083	<i>i</i>	4.22161	+0.13404612	−0.34929929
<i>P</i>	3.54	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 03 17	809	0.2+	1.4−	2000 03 11	699	0.2−	0.1+	2000 03 28	704	0.7+	0.6−
1993 03 18	809	0.2−	0.2−	2000 03 11	699	0.3+	0.3−	2000 03 28	704	0.5+	0.5+
1993 03 23	809	0.5−	0.3+	2000 03 11	699	0.1+	0.0	2000 03 28	704	0.4−	0.1−
1993 04 16	413	(5.0−	3.4−)	2000 03 12	703	0.3+	0.2−	2000 04 03	704	0.3−	0.8+
2000 02 11	704	0.4−	0.3−	2000 03 12	703	0.3−	0.1+	2000 04 03	704	0.4+	0.1+

2000 02 11	704	1.1−	0.6+	2000 03 12	703	0.5+	0.1+	2000 04 03	704	1.0−	1.1+
2000 02 11	704	0.2−	0.0	2000 03 12	703	0.6−	0.4+	2000 04 03	704	0.1−	0.5−
2000 02 11	704	1.0+	0.6−	2000 03 12	704	0.1−	0.1+	2000 04 08	704	0.2−	0.7+
2000 02 29	704	0.0	0.3−	2000 03 12	704	0.7+	0.3−	2000 04 08	704	0.3−	0.2+
2000 02 29	704	0.3−	0.4−	2000 03 12	704	0.1−	0.6−	2000 04 08	704	0.0	0.1−
2000 02 29	704	0.1−	0.2−	2000 03 12	704	0.1+	0.7+	2000 04 08	704	0.1+	0.0
2000 02 29	704	1.1+	1.0+	2000 03 12	704	0.1−	0.5+	2000 04 08	704	0.2+	0.0
2000 03 06	608	0.4+	0.6−	2000 03 26	699	0.5−	0.6+	2000 04 11	608	0.3+	0.1−
2000 03 06	608	0.3+	0.1−	2000 03 26	699	0.7−	0.1+	2000 04 11	608	0.3+	0.3−
2000 03 06	608	0.1+	0.4−	2000 03 26	699	0.4−	0.1−	2000 04 11	608	0.4+	0.1+
2000 03 11	699	0.2+	0.0	2000 03 26	699	0.2−	0.4−				

1993 FV₁₈ = 2000 GH₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	295.95750		(2000.0)	P	Q
<i>n</i>	0.28646873	ω	205.45941	+0.09803670	+0.99240072
<i>a</i>	2.2790363	Ω	70.23955	−0.89901952	+0.12036091
<i>e</i>	0.1559598	<i>i</i>	4.53191	−0.42679351	−0.02557470
<i>P</i>	3.44	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 03 17	809	0.0	0.3−	1998 12 16	704	0.4+	0.6+	2000 04 07	704	0.4−	0.8−
1993 03 18	809	0.4−	0.4+	1998 12 16	704	1.2+	0.3−	2000 04 07	704	0.2+	0.5−
1993 03 23	809	0.4+	0.1−	1998 12 16	704	1.6−	0.3−	2000 04 08	704	0.2−	1.6+
1993 04 16	413	(3.0−	0.0)	2000 04 07	704	0.4−	0.1+	2000 04 08	704	0.3−	0.3−
1998 12 16	704	(0.7−	5.1+)	2000 04 07	704	0.5+	0.7−	2000 04 08	704	0.6+	0.6+

1993 FC₂₀ = 2000 FU₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	14.78618		(2000.0)	P	Q
<i>n</i>	0.28165518	ω	30.27416	−0.96536777	−0.24556705
<i>a</i>	2.3049290	Ω	135.22793	+0.20718062	−0.92682113
<i>e</i>	0.0390638	<i>i</i>	7.18613	+0.15855994	−0.28407642
<i>P</i>	3.50	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 03 17	809	0.4−	0.1+	2000 03 11	699	0.5−	0.1−	2000 03 29	704	0.4+	0.4+
1993 03 18	809	0.4+	0.1+	2000 03 11	699	0.1+	0.1+	2000 04 05	704	0.1−	0.2+
1993 03 23	809	0.6+	0.2−	2000 03 29	704	0.7−	0.8+	2000 04 05	704	0.1−	0.1−
1993 04 16	413	0.8−	0.4−	2000 03 29	704	0.0	0.0	2000 04 05	704	0.4+	0.4+
2000 03 11	699	0.2+	0.2−	2000 03 29	704	0.3−	0.3+	2000 04 05	704	0.4+	0.5−
2000 03 11	699	0.1−	0.3−	2000 03 29	704	0.4+	0.5−				

1993 FH₂₃ = 2000 GJ₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	264.56619		(2000.0)	P	Q
<i>n</i>	0.28606329	ω	97.50016	+0.64862650	+0.75973370
<i>a</i>	2.2811892	Ω	213.08115	−0.72715508	+0.60084116
<i>e</i>	0.1789535	<i>i</i>	4.80266	−0.22478690	+0.24858522
<i>P</i>	3.45	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 03 21	809	0.9−	0.3−	1994 10 13	691	0.2+	0.6+	2000 04 06	704	0.1−	0.4+
1993 03 22	809	0.0	0.6−	1994 10 13	691	0.4−	0.6+	2000 04 06	704	0.4+	0.8+
1993 03 26	809	1.5−	0.7+	2000 04 05	704	1.8+	0.2+	2000 04 07	704	0.1−	0.7+
1993 03 27	809	(0.9+	2.1−)	2000 04 05	704	0.0	0.9+	2000 04 07	704	0.1+	0.3+
1993 04 16	413	(2.2+	5.7+)	2000 04 05	704	0.0	0.1−	2000 04 07	704	0.3−	1.3−
1993 05 09	695	0.2+	0.5−	2000 04 05	704	0.1+	0.1+	2000 04 07	704	0.0	0.3+
1993 05 09	695	0.5+	0.1−	2000 04 05	704	0.4−	0.1−	2000 04 07	704	0.5+	0.2−
1993 05 09	695	0.2+	0.6−	2000 04 06	704	0.1−	0.7+	2000 04 11	691	0.3−	0.5−
1993 05 09	695	0.4+	0.3−	2000 04 06	704	0.5−	0.4+	2000 04 11	691	0.3−	0.7−
1993 05 09	695	1.0+	0.5+	2000 04 06	704	0.2+	0.8+	2000 04 11	691	0.4−	0.6−

1993 FK₂₆ = 2000 EM₁₂₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.72959		(2000.0)	P		Q	
<i>n</i>	0.27285286	ω	332.40034	−0.45081593	+0.89102796		
<i>a</i>	2.3542380	Ω	270.76143	−0.80883557	−0.43300202		
<i>e</i>	0.0563142	<i>i</i>	3.05196	−0.37755796	−0.13630269		
<i>P</i>	3.61	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	1.0−	0.3+	2000 03 01	704	0.5−	0.2+	2000 03 11	699	0.8−	0.3+
1993 03 22	809	0.4+	0.6−	2000 03 01	704	0.2−	0.1+	2000 03 13	704	0.4+	0.5+
1993 03 26	809	0.5+	0.2+	2000 03 08	608	0.5−	0.5−	2000 03 13	704	0.1−	0.2−
1993 04 18	413	(0.0	5.3+)	2000 03 08	608	0.2−	0.5−	2000 03 13	704	0.3−	0.7+
2000 02 06	704	0.5+	0.6+	2000 03 08	608	0.6−	0.6−	2000 03 27	699	0.2+	0.1−
2000 02 06	704	0.2+	0.2−	2000 03 11	699	0.5+	0.6−	2000 03 27	699	0.3+	0.3+
2000 02 06	704	0.5+	0.3−	2000 03 11	699	0.1−	0.1+	2000 03 27	699	0.2+	0.3+
2000 03 01	704	1.2+	0.2−	2000 03 11	699	0.7−	0.1+	2000 03 27	699	0.2+	0.2+

1993 FF₂₉ = 2000 GR₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	30.54994		(2000.0)	P		Q	
<i>n</i>	0.28526311	ω	281.67842	−0.84214178	−0.53518829		
<i>a</i>	2.2854531	Ω	226.00668	−0.52361684	−0.78223843		
<i>e</i>	0.1288044	<i>i</i>	5.27265	+0.12892878	−0.31886757		
<i>P</i>	3.46	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 03 21	809	1.3−	1.8+	2000 04 07	704	0.1+	0.1+	2000 04 08	704	0.1−	0.7+
1993 03 22	809	1.0+	0.6−	2000 04 07	704	0.5+	0.7+	2000 04 08	704	0.0	0.5−
1993 03 26	809	0.2+	1.4−	2000 04 07	704	0.2+	0.2−	2000 04 10	704	0.8−	0.1−
1993 04 17	413	0.0	0.1+	2000 04 08	704	0.4−	0.7+	2000 04 10	704	0.3−	0.8+
2000 04 07	704	0.3+	0.1+	2000 04 08	704	0.5+	1.7−	2000 04 10	704	0.0	0.6−

1993 FC₃₅ = 2000 GB₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	265.25585		(2000.0)	P		Q	
<i>n</i>	0.28374339	ω	144.34952	+0.55345367	+0.83261055		
<i>a</i>	2.2936063	Ω	159.22937	−0.77733285	+0.52550766		
<i>e</i>	0.1875939	<i>i</i>	3.42443	−0.29906968	+0.17493247		
<i>P</i>	3.47	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 19	809	0.8+	0.4−	2000 03 14	703	1.7−	0.4+	2000 04 08	704	0.6−	0.2+
1993 03 20	809	0.5+	0.4−	2000 03 29	704	0.3−	0.1+	2000 04 08	704	0.7+	1.3+
1993 03 24	809	0.7−	1.1+	2000 03 29	704	0.3−	0.2−	2000 04 08	704	1.3+	1.0+
1993 04 21	413	(2.6−	1.0+)	2000 03 29	704	0.4−	0.8−	2000 04 08	704	1.7+	2.0+
1993 04 29	691	0.8−	1.2−	2000 03 29	704	0.0	0.3+	2000 04 10	704	0.1+	0.9+
1993 04 29	691	0.4−	1.3−	2000 03 29	704	0.0	0.2+	2000 04 10	704	0.5+	0.2−
1993 04 29	691	0.6−	1.4−	2000 04 07	704	0.1−	0.0	2000 04 10	704	0.6−	0.2−
2000 03 14	703	0.2+	0.3+	2000 04 07	704	0.0	0.3+	2000 04 10	704	0.1+	0.1+
2000 03 14	703	0.0	0.7−	2000 04 07	704	0.0	1.1−	2000 04 10	704	0.3+	0.5−
2000 03 14	703	0.1−	0.1+	2000 04 07	704	0.2+	0.2−				

1993 FX₃₅ = 1990 SY₁₇ = 2000 EP₁₅₄

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	259.70714		(2000.0)	P		Q	
<i>n</i>	0.28219868	ω	296.24396	+0.64836913	+0.75435216		
<i>a</i>	2.3019686	Ω	15.57110	−0.48670609	+0.51454115		
<i>e</i>	0.2483714	<i>i</i>	22.52004	−0.58543544	+0.40767662		
<i>P</i>	3.49	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 09 22	413	1.4+	1.5+	2000 04 03	699	0.1−	0.0	2000 04 07	704	0.4+	0.0
1990 09 22	413	0.2−	0.3−	2000 04 03	699	0.4−	0.2−	2000 04 07	704	0.4+	0.1+

1990 09 22	413	1.2−	1.2−	2000 04 03	699	0.2−	0.2−	2000 04 07	704	0.6+	0.3+
1993 03 19	809	0.2+	0.4+	2000 04 03	699	0.0	0.2+	2000 04 07	704	0.3+	0.2+
1993 03 20	809	0.4−	0.2+	2000 04 05	691	0.1−	0.4+	2000 04 08	704	0.4−	0.0
1993 03 24	809	1.7−	0.0	2000 04 05	691	0.2−	0.4+	2000 04 08	704	0.3−	0.2−
1993 04 21	413	1.0+	1.6−	2000 04 05	691	0.1−	0.6+	2000 04 08	704	0.1−	0.7+
2000 03 06	608	0.4+	1.1−	2000 04 05	704	0.3+	0.1+	2000 04 08	704	0.0	0.6+
2000 03 06	608	0.5−	0.4−	2000 04 05	704	0.1+	0.4+	2000 04 08	704	0.4+	0.6+
2000 03 06	608	0.3+	0.6−	2000 04 05	704	0.3+	0.5+	2000 04 08	704	0.1+	0.4+
2000 03 08	704	0.2+	0.6−	2000 04 05	704	0.1+	0.6+	2000 04 08	691	0.8−	0.4−
2000 03 08	704	0.3+	0.7+	2000 04 05	704	0.3+	0.6+	2000 04 08	691	0.5−	0.6−
2000 03 08	704	0.3+	0.3−	2000 04 06	699	0.1−	0.0	2000 04 08	691	0.5−	0.7−
2000 03 08	704	1.6+	0.7+	2000 04 06	704	0.6+	0.1+	2000 04 10	691	0.3−	0.0
2000 03 27	699	0.0	0.0	2000 04 06	699	0.3−	0.1+	2000 04 10	704	0.1+	0.1+
2000 03 27	699	0.5−	0.4+	2000 04 06	704	0.3+	0.0	2000 04 10	704	0.3+	0.5−
2000 03 27	699	0.0	0.3−	2000 04 06	704	0.0	0.3+	2000 04 10	691	0.1−	0.0
2000 03 27	699	0.2−	0.1−	2000 04 06	699	0.2−	0.1+	2000 04 10	704	0.2−	0.1+
2000 04 02	699	0.1−	0.0	2000 04 06	704	0.6+	0.7−	2000 04 10	691	0.1+	0.5−
2000 04 02	699	0.6−	0.1−	2000 04 06	699	0.1−	0.1+	2000 04 10	704	0.5−	0.3−
2000 04 02	699	0.5−	0.1+	2000 04 06	704	0.5+	0.1−	2000 04 10	704	0.3+	0.9−
2000 04 02	699	0.4−	0.0	2000 04 07	704	0.7+	0.4+				

1993 FD₃₆ = 2000 EJ₁₀₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	281.48785		(2000.0)	P		Q	
<i>n</i>	0.27673063	ω	229.31549	−0.20129201	+0.97824383		
<i>a</i>	2.3321934	Ω	29.18690	−0.86478964	−0.15340855		
<i>e</i>	0.0881495	<i>i</i>	5.90911	−0.46002219	−0.13965967		
<i>P</i>	3.56	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 19	809	0.9−	0.2+	2000 03 06	608	0.7+	1.0−	2000 03 28	704	0.2−	0.4+
1993 03 20	809	0.1−	0.8−	2000 03 06	608	0.9+	1.0−	2000 03 28	704	0.1+	0.7−
1993 03 24	809	0.3+	0.8−	2000 03 06	608	0.8+	1.0−	2000 04 05	704	0.5−	0.4+
1993 04 18	413	(4.7−	5.4−)	2000 03 10	608	0.7+	0.0	2000 04 05	704	0.2−	0.4+
1998 11 18	704	(2.5+	0.4+)	2000 03 10	608	0.7+	1.8−	2000 04 05	704	0.4−	0.4+
1998 11 18	704	0.5+	0.7−	2000 03 10	608	0.7+	0.6−	2000 04 05	704	0.5−	0.2+
1998 11 18	704	0.2−	0.3−	2000 03 11	699	0.2−	0.5+	2000 04 05	704	0.7−	0.1−
1998 11 18	704	(2.9−	0.4+)	2000 03 11	699	0.5−	0.4+	2000 04 08	704	0.1+	0.3−
2000 02 11	704	1.2+	0.9−	2000 03 11	699	0.9−	0.1−	2000 04 08	704	0.2+	0.2−
2000 02 11	704	0.3+	0.3−	2000 03 11	699	0.8−	1.3+	2000 04 08	704	0.2−	0.0
2000 02 11	704	1.0+	0.9+	2000 03 12	703	0.7−	0.2−	2000 04 08	704	0.1−	0.5+
2000 02 11	704	0.1+	1.0+	2000 03 12	703	0.1+	0.3+	2000 04 08	704	0.2+	0.3+
2000 03 01	704	0.4+	0.7+	2000 03 12	703	0.4−	0.7+	2000 04 10	704	0.6−	0.7+
2000 03 01	704	0.1−	0.3−	2000 03 12	703	1.0−	1.0−	2000 04 10	704	0.1−	0.7−
2000 03 01	704	0.3+	0.4+	2000 03 12	704	0.3+	0.6+	2000 04 10	704	0.9+	0.7−
2000 03 02	703	0.6+	0.1+	2000 03 12	704	0.0	0.6+	2000 04 10	704	0.8+	1.4−
2000 03 02	703	0.6−	0.6+	2000 03 12	704	0.1−	0.0	2000 04 12	608	0.2−	0.0
2000 03 02	703	0.4−	0.6+	2000 03 12	704	0.0	0.0	2000 04 12	608	0.8−	0.6+
2000 03 02	703	1.0−	0.5+	2000 03 28	704	0.1+	0.9+	2000 04 12	608	1.0+	0.7−

1993 FU₃₇ = 2000 GS₇₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	17.95545		(2000.0)	P		Q	
<i>n</i>	0.28643839	ω	150.04184	−0.99561285	−0.08710773		
<i>a</i>	2.2791972	Ω	25.02977	+0.06142511	−0.88390781		
<i>e</i>	0.0746747	<i>i</i>	4.63185	+0.07058336	−0.45947713		
<i>P</i>	3.44	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 02 26	691	1.4+	0.7−	2000 04 05	691	0.9−	0.3−	2000 04 07	704	0.7+	0.2−
1993 02 26	691	0.1−	0.5+	2000 04 05	704	0.4+	0.1−	2000 04 07	704	0.6−	0.5−
1993 02 26	691	0.1−	0.3+	2000 04 05	704	0.0	0.2+	2000 04 07	704	0.5+	0.2+
1993 03 19	809	1.6−	0.6+	2000 04 05	691	0.8−	0.7−	2000 04 07	704	0.1−	0.0
1993 03 20	809	0.8−	0.4+	2000 04 05	704	0.2+	0.3−	2000 04 07	704	1.4+	1.7+
1993 03 24	809	0.2+	0.7−	2000 04 05	704	0.3+	0.0	2000 04 08	704	0.6+	0.5+

2000 APR. 18

M.P.C. 39949

1993 04 18	413	0.6+	1.5−	2000 04 06	704	0.1+	0.0	2000 04 08	704	0.3+	0.1+
1998 11 10	699	0.7−	1.1+	2000 04 06	704	0.2−	0.1−	2000 04 08	704	0.5+	1.0+
1998 11 10	699	0.4+	0.3+	2000 04 06	704	0.3+	0.2−	2000 04 08	704	0.9−	0.2+
1998 11 10	699	0.0	0.6−	2000 04 06	704	0.2+	0.1−				
2000 04 05	691	0.8−	0.2−	2000 04 06	704	0.2−	0.2+				

1993 FP₅₂ = 2000 EU₈₃

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	289.13591		(2000.0)	P	Q		
<i>n</i>	0.27520443	ω	205.25804	−0.35161314	+0.93554347		
<i>a</i>	2.3408079	Ω	44.17707	−0.85051459	−0.30426424		
<i>e</i>	0.1903566	<i>i</i>	2.76071	−0.39114336	−0.17939254		
<i>P</i>	3.58	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 17	809	0.5−	0.6+	2000 02 25	703	0.4−	0.6−	2000 03 12	704	0.2+	0.6+
1993 03 18	809	0.0	0.0	2000 02 25	703	0.8−	0.9−	2000 03 12	704	0.3+	0.4−
1993 03 23	809	1.1+	0.3−	2000 03 05	704	1.0+	0.5+	2000 03 12	704	0.5+	0.7+
1993 03 23	691	0.9−	0.4−	2000 03 05	704	0.1+	0.1+	2000 03 12	704	0.5+	0.1+
1993 03 23	691	0.6−	0.4−	2000 03 05	704	0.8+	0.2+	2000 03 12	704	0.4−	0.2−
1993 03 23	691	0.6−	0.5−	2000 03 11	699	1.0−	0.6−	2000 04 03	699	0.5−	1.2+
1993 04 16	413	1.1+	0.2−	2000 03 11	699	0.4−	0.6+	2000 04 03	699	0.0	0.0
2000 02 25	703	0.3+	0.4−	2000 03 11	699	0.3−	0.0	2000 04 03	699	1.1+	1.0+
2000 02 25	703	0.1−	1.6−	2000 03 11	699	0.5−	0.7+	2000 04 03	699	0.2+	0.3+

1993 FM₆₂ = 2000 EG₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	223.70140		(2000.0)	P	Q		
<i>n</i>	0.27891867	ω	253.33074	+0.89064163	+0.44964169		
<i>a</i>	2.3199804	Ω	79.90571	−0.38659306	+0.82714670		
<i>e</i>	0.2642923	<i>i</i>	3.94154	−0.23938108	+0.33712117		
<i>P</i>	3.53	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 03 19	809	0.3−	0.3−	2000 03 12	704	0.6+	0.7+	2000 04 07	704	0.2−	0.6−
1993 03 20	809	0.8+	0.4−	2000 03 12	704	0.2−	0.6+	2000 04 08	704	0.8+	0.2−
1993 03 24	691	0.4−	0.1−	2000 03 12	704	0.1−	0.1+	2000 04 08	704	0.5+	0.3+
1993 03 24	691	0.3−	0.2−	2000 03 29	704	0.2−	0.6+	2000 04 08	704	0.4−	0.3−
1993 03 24	691	0.4−	0.3−	2000 03 29	704	0.4+	0.6+	2000 04 08	704	0.9−	0.4−
2000 03 11	699	1.0−	0.2+	2000 03 29	704	0.2+	0.8+	2000 04 08	704	0.4−	0.3+
2000 03 11	699	0.5−	0.4−	2000 03 29	704	0.7−	0.3+	2000 04 10	704	0.0	0.4+
2000 03 11	699	0.3−	0.8−	2000 04 07	699	0.5−	0.4+	2000 04 10	704	0.3−	0.2+
2000 03 11	699	0.2−	0.4−	2000 04 07	699	0.4−	0.3+	2000 04 10	704	0.8+	0.0
2000 03 12	704	0.1+	0.9−	2000 04 07	699	1.6−	0.8+	2000 04 10	704	0.6+	0.3−
2000 03 12	704	0.1+	0.1+	2000 04 07	704	0.3+	0.6−	2000 04 10	704	0.8+	0.3−
2000 03 12	704	0.5+	0.1+	2000 04 07	704	0.3+	0.0	2000 04 10	704	0.9+	0.5+
2000 03 12	704	1.0+	0.6−	2000 04 07	699	0.2−	0.2+	2000 04 10	704	0.3+	0.2−
2000 03 12	704	0.6+	0.1+	2000 04 07	704	0.2+	0.2−				
2000 03 12	704	0.0	0.2−	2000 04 07	704	0.4−	0.3+				

1993 FY₇₅ = 2000 GU₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	277.60192		(2000.0)	P	Q		
<i>n</i>	0.28725216	ω	90.60958	+0.51646585	+0.85507315		
<i>a</i>	2.2748906	Ω	210.62505	−0.81716432	+0.47610227		
<i>e</i>	0.1831064	<i>i</i>	5.17705	−0.25594042	+0.20536927		
<i>P</i>	3.43	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 21	809	(2.0−	0.7−)	1997 06 05	691	0.5−	0.2−	2000 04 06	704	0.4+	0.2−
1993 03 22	809	0.9−	0.1+	1997 06 05	691	0.6−	0.7−	2000 04 06	704	0.1−	0.0
1993 03 27	809	0.4+	1.6−	1997 07 10	599	0.7+	1.0−	2000 04 06	704	0.0	0.5−
1993 04 18	413	(3.7+	3.5+)	1997 07 10	599	0.3+	1.3+	2000 04 06	704	0.1+	0.3−
1994 10 13	691	0.3−	0.1+	2000 04 05	704	0.2−	0.7+	2000 04 07	704	0.2−	1.2+

1994 10 13	691	0.2+	0.3+	2000 04 05	704	0.1+	0.3+	2000 04 07	704	1.0+	0.6−
1994 10 13	691	0.2−	0.2+	2000 04 05	704	0.1−	1.1+	2000 04 07	704	0.7−	0.7+
1997 06 05	691	0.3−	0.0	2000 04 05	704	0.1+	0.3−				

1993 KG₁ = 1997 JM = 1998 SN₈₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	124.86419		(2000.0)	P	Q		
<i>n</i>	0.24724447	ω	166.72609	+0.97514796	−0.21045448		
<i>a</i>	2.5141142	Ω	205.74004	+0.18591464	+0.94729210		
<i>e</i>	0.1752075	<i>i</i>	9.17515	+0.12050814	+0.24155037		
<i>P</i>	3.99	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 05 21	691	0.3+	0.7−	1997 05 02	691	0.7+	0.2−	1998 09 26	704	0.6+	0.3+
1993 05 21	691	0.2−	0.1+	1997 05 03	691	0.5−	0.1−	1998 09 26	704	0.2+	1.0−
1993 05 21	691	0.3+	0.4+	1997 05 03	691	0.4−	0.1+	1998 09 27	704	1.8−	0.5+
1993 05 26	691	0.3−	0.5−	1997 05 03	691	0.1+	0.1+	1998 09 27	704	0.4+	0.3+
1993 05 26	691	0.2+	0.3+	1998 09 17	699	0.3−	1.2+	1998 09 27	704	0.4−	1.4−
1993 05 26	691	0.4−	0.2−	1998 09 17	699	0.1−	0.0	1998 09 27	704	0.7+	0.9+
1997 05 02	691	0.1−	0.1+	1998 09 17	699	1.7+	0.5+				
1997 05 02	691	0.3+	0.5+	1998 09 26	704	0.9−	1.1−				

1993 OC₃ = 2000 DA₃₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	214.93544		(2000.0)	P	Q		
<i>n</i>	0.24139621	ω	0.51432	+0.59337129	+0.80302037		
<i>a</i>	2.5545579	Ω	305.88351	−0.73875174	+0.51596840		
<i>e</i>	0.1387368	<i>i</i>	3.92057	−0.31961913	+0.29821956		
<i>P</i>	4.08	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 07 13	809	1.5+	1.1+	1997 07 02	704	1.7−	0.9+	2000 02 29	704	1.1+	1.2+
1993 07 13	809	1.0+	0.9+	1997 07 02	704	1.2+	0.3+	2000 02 29	704	0.2−	1.1+
1993 07 13	809	0.1−	0.4+	1997 07 02	704	0.0	0.5+	2000 03 03	704	0.2+	0.5−
1993 07 20	809	(1.4−	3.4−)	1997 07 02	704	0.1−	0.1+	2000 03 03	704	0.0	0.2−
1993 07 20	809	(2.0−	3.7−)	1998 12 14	704	(2.2+	0.0)	2000 03 03	704	0.0	0.2−
1993 07 20	809	(3.8−	2.6−)	1998 12 14	704	0.3+	0.9+	2000 03 03	704	0.1+	0.1−
1993 07 20	809	0.5+	0.5+	1998 12 14	704	0.4−	0.5+	2000 03 03	704	0.2−	0.5−
1993 07 20	809	0.2+	0.2−	1998 12 14	704	(2.5−	3.2+)	2000 03 09	704	0.0	1.2−
1993 07 20	809	0.7+	0.1+	2000 02 02	704	0.4+	0.7+	2000 03 09	704	0.5+	0.6−
1993 07 24	809	1.3−	1.1−	2000 02 02	704	0.4−	0.1−	2000 03 09	704	0.6−	1.1−
1993 07 24	809	0.4−	0.5−	2000 02 02	704	0.3−	0.1+	2000 03 11	704	0.4−	0.3+
1993 07 26	809	1.1−	1.3−	2000 02 02	704	0.2−	0.9−	2000 03 11	704	0.3+	0.3+
1993 07 26	809	1.0−	0.7−	2000 02 29	704	0.4+	0.4−	2000 03 11	704	0.4+	0.1−
1993 07 26	809	(3.0−	0.3−)	2000 02 29	704	0.0	0.1+	2000 03 11	704	0.6+	0.3+
1997 07 02	704	0.5+	0.0	2000 02 29	704	1.7−	1.1+	2000 03 11	704	0.1+	1.2+

1993 OP₇ = 1997 JP₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	189.32012		(2000.0)	P	Q		
<i>n</i>	0.22673153	ω	173.93152	+0.41419581	+0.88836208		
<i>a</i>	2.6635536	Ω	120.38379	−0.84444191	+0.45629124		
<i>e</i>	0.1835524	<i>i</i>	13.27774	−0.33964642	−0.05109900		
<i>P</i>	4.35	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 07 13	809	1.8−	1.3−	1993 07 20	809	0.9+	0.8+	1997 05 10	691	0.2−	0.4+
1993 07 13	809	2.0−	1.1−	1993 07 24	809	2.1+	0.0	1997 05 10	691	0.0	0.0
1993 07 13	809	1.8−	1.2−	1997 05 06	691	0.1+	0.1−	1997 05 10	691	0.2−	0.1−
1993 07 20	809	1.5+	1.5+	1997 05 06	691	0.3+	0.0				
1993 07 20	809	1.2+	1.0+	1997 05 06	691	0.2+	0.1−				

1993 PV₃ = 2000 AJ₂₃₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19205352	ω	211.15671	+0.94630119	−0.32101289		
<i>a</i>	2.9752345	Ω	167.39250	+0.32077782	+0.91763602		
<i>e</i>	0.0917538	<i>i</i>	10.09869	+0.04019521	+0.23429651		
<i>P</i>	5.13	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 08 14	010	0.6+	0.1−	1999 10 09	704	0.4−	0.1−	1999 11 05	704	0.7−	0.2+
1993 08 14	010	0.4−	0.2−	1999 10 09	704	0.0	0.3−	1999 11 05	704	0.5−	0.2−
1993 08 14	010	0.5+	0.7−	1999 10 09	704	0.2+	0.2+	1999 11 13	699	0.1−	0.6+
1993 08 15	010	1.3−	1.2−	1999 10 09	704	0.1−	0.4−	1999 11 13	699	0.1+	0.4−
1993 08 18	010	(3.0+)	1.1+	1999 10 09	704	0.2−	0.9−	1999 11 13	699	0.2−	0.2+
1993 08 18	010	0.5+	1.0+	1999 10 18	699	0.7−	1.6+	1999 12 03	704	0.0	0.1−
1993 08 18	010	0.2+	0.2+	1999 10 18	699	0.3−	0.0	1999 12 03	704	0.3+	0.2−
1998 08 17	704	0.3−	0.0	1999 10 18	699	(1.7−	2.6+)	1999 12 03	704	1.2+	0.8−
1998 08 17	704	1.2−	1.4−	1999 10 19	704	0.3−	0.4+	1999 12 03	704	(0.8−	2.2−)
1998 08 17	704	0.6−	1.1−	1999 10 19	704	0.4+	1.1−	1999 12 03	704	1.0−	0.7−
1998 08 17	704	(6.2−	0.5+)	1999 10 19	704	0.8+	0.8−	1999 12 08	699	0.0	0.1−
1998 08 23	704	0.5+	0.9+	1999 10 19	704	0.7+	0.8−	1999 12 08	699	0.9+	0.9+
1998 08 23	704	1.0+	1.0+	1999 10 19	704	0.6+	1.6−	1999 12 08	699	1.2+	0.1+
1998 08 23	704	0.6−	1.1+	1999 10 31	703	0.1−	0.3+	2000 01 06	699	0.2−	0.1+
1998 08 23	704	1.1+	1.2+	1999 10 31	703	0.1+	0.7+	2000 01 06	699	0.5−	1.3+
1998 08 23	704	(2.0−	2.9−)	1999 10 31	703	0.2−	0.5+	2000 01 06	699	1.6+	1.0−
1999 10 08	703	0.1−	0.1+	1999 10 31	703	0.4−	0.6+	2000 01 11	704	0.1+	0.3−
1999 10 08	703	0.3−	0.4+	1999 11 05	704	0.1−	0.7−	2000 01 11	704	0.2−	0.1+
1999 10 08	703	0.1−	0.4+	1999 11 05	704	0.1+	0.1−	2000 01 11	704	1.4−	1.5+
1999 10 08	703	0.2−	0.2+	1999 11 05	704	0.2−	0.0	2000 01 11	704	0.2+	0.8+

1993 PW₅ = 1992 GS₂ = 1997 YE₂₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30055389	ω	217.37837	+0.10128208	−0.99416633		
<i>a</i>	2.2072650	Ω	226.84160	+0.92460118	+0.10782362		
<i>e</i>	0.1126437	<i>i</i>	2.91404	+0.36722555	+0.00271599		
<i>P</i>	3.28	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 04 04	809	0.2−	0.9−	1993 08 19	010	0.7+	0.6+	1998 04 14	704	(0.8+	2.1+)
1992 04 04	809	0.7−	0.7−	1993 08 19	010	0.1−	0.0	1998 04 14	704	(4.2−	0.1+)
1992 04 04	809	1.1−	1.5−	1993 08 20	010	0.0	0.8+	1999 06 15	704	0.0	1.7+
1992 04 06	809	0.1+	1.0−	1997 12 23	910	0.7+	0.1−	1999 06 15	704	0.3+	0.9+
1992 04 06	809	0.6+	1.1−	1997 12 24	910	0.7+	0.0	1999 06 15	704	0.4+	0.8+
1992 04 06	809	(0.8−	2.5−)	1997 12 24	910	0.4+	0.0	1999 06 15	704	0.9+	1.0+
1993 08 15	010	0.5+	0.5−	1997 12 29	566	0.1+	0.4+	1999 07 16	704	0.4+	1.4+
1993 08 15	010	0.2−	1.3−	1997 12 29	566	0.1+	0.3+	1999 07 16	704	1.1−	1.5+
1993 08 16	010	(0.2+	2.1−)	1997 12 29	566	0.1−	0.4+	1999 07 16	704	1.1−	1.0−
1993 08 16	010	0.1−	1.7−	1998 04 14	704	1.1−	2.0+	1999 07 16	704	0.4+	0.1−
1993 08 16	010	0.2+	1.5−	1998 04 14	704	1.8−	0.5−				

1993 QF₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25390739	ω	136.42455	+0.24684620	+0.96829809		
<i>a</i>	2.4699367	Ω	147.81028	−0.90763305	+0.24486159		
<i>e</i>	0.1985811	<i>i</i>	4.12122	−0.33951317	+0.04941263		
<i>P</i>	3.88	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 08 15	809	0.3+	0.5+	1996 02 16	691	0.1+	0.4+	2000 04 06	699	0.2−	0.1−
1993 08 15	809	0.1+	0.5−	2000 03 29	704	0.7+	0.0	2000 04 06	699	0.0	0.3−
1993 08 15	809	0.7+	0.8+	2000 03 29	704	0.2−	0.2+	2000 04 06	699	0.5−	0.4−
1993 08 20	809	0.5−	0.0	2000 03 29	704	0.1+	0.1−	2000 04 08	704	0.5−	0.3+
1993 08 20	809	0.3−	0.0	2000 03 29	704	0.0	0.4+	2000 04 08	704	0.4−	0.1−
1993 08 20	809	0.5−	0.0	2000 03 29	704	0.8−	0.1+	2000 04 08	704	1.3−	0.5+
1993 08 24	809	(4.2−	1.3−)	2000 04 02	699	0.9+	0.9+	2000 04 08	704	0.4−	1.3+
1993 08 24	809	(4.5−	0.3−)	2000 04 02	699	0.1+	0.5+	2000 04 08	704	0.1−	0.1+
1993 08 24	809	(4.0−	1.5−)	2000 04 02	699	0.3+	0.7−	2000 04 10	704	0.4+	0.1−
1993 09 10	691	(2.4−	3.2−)	2000 04 02	699	0.0	0.6−	2000 04 10	704	1.3+	1.3−
1993 09 10	691	(3.0−	2.2−)	2000 04 04	704	(3.4−	1.6+)	2000 04 10	704	0.2+	0.8−
1993 09 10	691	(2.9−	2.3−)	2000 04 04	704	1.2−	0.1+	2000 04 10	704	0.2+	0.1−
1996 02 16	691	0.1+	0.4+	2000 04 04	704	1.5+	0.3+				
1996 02 16	691	0.2+	0.5+	2000 04 06	699	0.2−	0.2−				

1993 RH₄ = 2000 DH₅₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22548244	ω	277.62054	−0.01783151	+0.99975299		
<i>a</i>	2.6733812	Ω	351.32454	−0.87916706	−0.02199713		
<i>e</i>	0.0480035	<i>i</i>	5.04573	−0.47617992	+0.00317537		
<i>P</i>	4.37	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	0.0	1.5−	2000 02 29	704	0.8+	0.9−	2000 03 11	699	0.6−	0.3+
1993 09 15	809	0.3−	1.3−	2000 02 29	704	0.0	0.1+	2000 03 11	699	0.4−	0.3+
1993 09 15	809	(0.6+	2.3−)	2000 02 29	704	0.2−	0.0	2000 03 11	699	1.4−	0.1−
1993 09 16	809	(1.4+	2.7−)	2000 02 29	704	0.1−	0.0	2000 03 15	691	0.3−	0.2−
1993 09 16	809	(0.4+	2.4−)	2000 03 03	704	0.0	0.1−	2000 03 15	691	0.4−	0.3−
1993 09 16	809	0.1−	0.6−	2000 03 03	704	0.1−	0.3−	2000 03 15	691	0.3−	0.1−
1993 09 17	809	(1.7+	2.0+)	2000 03 03	704	0.1−	0.5−	2000 03 27	699	0.8+	1.1−
1993 09 17	809	1.2+	0.7+	2000 03 03	704	0.0	0.0	2000 03 27	699	0.1−	0.2+
1993 09 17	809	0.1−	0.4+	2000 03 03	704	0.0	0.1+	2000 03 27	699	0.2−	0.1+
1993 09 18	809	1.1+	1.2+	2000 03 04	049	1.3+	0.2−	2000 03 27	699	0.4−	0.0
1993 09 18	809	0.1−	0.2−	2000 03 04	049	1.3+	0.1+	2000 04 03	704	0.8+	0.2+
1993 09 18	809	0.4−	1.3−	2000 03 04	049	1.1+	0.1−	2000 04 03	704	0.1+	0.2−
1993 09 18	675	(2.4+	1.0−)	2000 03 11	704	0.0	0.3+	2000 04 03	704	1.1−	0.4−
1993 09 22	675	0.1+	0.2+	2000 03 11	704	0.3−	0.6+	2000 04 03	704	0.6+	0.4−
1993 09 23	809	0.1−	1.5+	2000 03 11	704	0.6−	1.1+	2000 04 03	704	0.5+	0.8+
1993 09 23	809	0.4−	0.8+	2000 03 11	704	0.1−	0.3+				
1993 09 23	809	0.8−	0.1−	2000 03 11	699	0.8−	0.0				

1993 RG₅ = 2000 DP₂₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23780693	ω	319.84141	+0.34816401	+0.93723670		
<i>a</i>	2.5801981	Ω	330.51886	−0.84975271	+0.30687762		
<i>e</i>	0.2739350	<i>i</i>	2.23754	−0.39585624	+0.16557020		
<i>P</i>	4.14	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	1.3+	1.1+	1993 09 22	675	0.3+	1.8−	2000 03 03	704	0.0	0.5+
1993 09 15	809	0.2+	1.3+	1993 09 23	809	(2.4−	1.9−)	2000 03 05	704	1.1+	0.8+
1993 09 15	809	0.6−	0.7+	1993 09 23	809	(4.0−	2.2−)	2000 03 05	704	1.0+	0.1+
1993 09 16	809	0.1−	1.4−	1993 09 23	809	(3.4−	2.8−)	2000 03 05	704	0.4+	0.7+
1993 09 16	809	0.5−	0.7−	2000 02 04	704	0.3+	0.2+	2000 03 05	704	0.3+	0.4+
1993 09 16	809	0.6−	0.7−	2000 02 04	704	1.1−	0.7−	2000 03 10	691	0.0	0.5−
1993 09 17	809	0.5+	1.5+	2000 02 04	704	0.1−	0.3−	2000 03 10	691	0.0	0.4−
1993 09 17	809	0.4−	0.4+	2000 02 04	704	0.8−	1.5+	2000 03 10	691	0.1−	0.3−
1993 09 17	809	0.1+	1.3+	2000 02 29	704	0.3+	1.1−	2000 03 10	691	0.7−	0.0
1993 09 18	809	0.8+	1.1+	2000 02 29	704	0.9+	0	2000 03 10	691	0.5−	0.2−
1993 09 18	809	0.3+	1.0+	2000 02 29	704	0.5+	0.5−	2000 03 10	691	0.6−	0.1−
1993 09 18	809	0.3−	1.1+	2000 02 29	704	0.3+	0.4+	2000 03 11	691	0.6−	0.1+

2000 APR. 18

M.P.C. 39951

1993 09 18	675	0.1−	2.0−	2000 02 29	704	0.9+	0.1−	2000 03 11	691	0.6−	0.1+
1993 09 18	675	1.0−	1.3−	2000 03 03	704	0.1−	0.5−	2000 03 11	691	0.3−	0.3+
1993 09 22	675	0.1−	1.4−	2000 03 03	704	0.2−	0.1−				

1993 RS₆

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	18.86967		(2000.0)	P		Q	
<i>n</i>	0.23010518	ω	279.96963	−0.97629322		−0.21225738	
<i>a</i>	2.6374554	Ω	247.78556	+0.21217521		−0.89970113	
<i>e</i>	0.0255925	<i>i</i>	2.62547	+0.04281624		−0.38142453	
<i>P</i>	4.28	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	1.1−	1.2−	2000 03 30	704	0.4+	0.5−	2000 04 07	704	0.6+	0.1−
1993 09 15	809	1.6−	0.7−	2000 03 30	704	1.0+	1.0−	2000 04 07	704	0.2+	0.0
1993 09 15	809	1.8−	0.3−	2000 03 30	704	1.1+	0.1−	2000 04 07	704	0.3−	0.1+
1993 09 17	809	0.6+	0.1−	2000 04 02	699	0.2+	0.2−	2000 04 07	704	0.4−	0.5+
1993 09 17	809	0.7+	0.1−	2000 04 02	699	0.1+	1.0−	2000 04 07	704	0.6−	0.1+
1993 09 17	809	0.7+	0.2−	2000 04 02	699	0.4+	0.5−	2000 04 08	704	0.0	0.5+
1993 09 18	809	(2.7+ 1.6+)		2000 04 02	699	0.2−	0.6−	2000 04 08	704	0.2+	0.6+
1993 09 18	809	1.0+	0.9+	2000 04 03	699	0.4−	0.3+	2000 04 08	704	0.9−	0.3−
1993 09 18	809	1.4+	1.6+	2000 04 03	699	0.1−	0.3+	2000 04 08	704	1.0−	0.2−
2000 03 30	704	1.0+	0.0	2000 04 03	699	0.5+	0.6−	2000 04 08	704	0.5−	1.2+
2000 03 30	704	0.0	0.5+	2000 04 03	699	1.1−	0.7+				

1993 RC₇ = 2000 DF₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	265.40853		(2000.0)	P		Q	
<i>n</i>	0.22994503	ω	277.08392	−0.10609535		+0.99430802	
<i>a</i>	2.6386799	Ω	346.81384	−0.89457399		−0.09973173	
<i>e</i>	0.1345704	<i>i</i>	2.45330	−0.43414416		−0.03748536	
<i>P</i>	4.29	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	1.3+	0.8+	1993 09 22	675	(2.9− 0.7−)		2000 03 05	704	0.3−	0.3+
1993 09 15	809	0.3−	0.8+	1993 09 24	809	(5.2+ 3.8+)		2000 03 05	704	0.2+	0.4+
1993 09 15	809	0.7−	0.9+	1993 09 24	809	(2.8+ 0.2−)		2000 03 05	704	0.2+	0.8−
1993 09 17	809	0.2−	1.0−	1993 09 24	809	1.2+	0.4−	2000 03 05	704	0.5−	0.1−
1993 09 17	809	0.8−	0.5−	2000 02 29	704	0.0	0.6+	2000 03 05	704	0.6+	0.3−
1993 09 17	809	0.5−	0.4−	2000 02 29	704	0.5+	0.4+	2000 04 03	699	0.5+	0.4−
1993 09 18	675	(4.1− 0.3+)		2000 02 29	704	1.2+	0.4+	2000 04 03	699	0.6−	1.3+
1993 09 18	675	(3.9− 1.5−)		2000 03 03	704	0.5−	0.3−	2000 04 03	699	0.1−	0.0
1993 09 18	691	(2.6− 0.9+)		2000 03 03	704	0.0	0.4−	2000 04 03	699	0.7+	0.5+
1993 09 18	691	(2.7− 0.4+)		2000 03 03	704	0.3−	0.3−	2000 04 05	691	0.0	0.0
1993 09 18	691	(2.8− 0.2−)		2000 03 03	704	0.6−	0.2+	2000 04 05	691	0.1−	0.0
1993 09 22	675	(3.4− 2.4−)		2000 03 03	704	0.6−	0.6−	2000 04 05	691	0.3−	0.7−

1993 RP₇ = 1996 HV₂₅ = 2000 EG₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	25.18080		(2000.0)	P		Q	
<i>n</i>	0.22338047	ω	316.26328	−0.84994478		−0.52644262	
<i>a</i>	2.6901258	Ω	192.02425	+0.50710700		−0.80644510	
<i>e</i>	0.0497138	<i>i</i>	5.85760	+0.14295577		−0.26926655	
<i>P</i>	4.41	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 09 15	809	1.0+	0.1−	1996 05 22	809	(0.1+ 4.0+)		2000 03 11	704	0.2−	1.0−
1993 09 15	809	1.0+	0.3+	1996 05 22	809	(0.7+ 2.6+)		2000 04 04	704	0.2+	0.3−
1993 09 15	809	0.6−	0.1−	1997 09 19	910	0.3−	0.9+	2000 04 04	704	0.1+	0.4+
1993 09 17	809	0.2+	0.9−	1997 09 19	910	0.2−	0.9+	2000 04 04	704	0.6+	0.4+
1993 09 17	809	1.0−	0.1−	1997 09 19	910	0.2−	0.7+	2000 04 04	704	0.2+	0.3+

1993 09 17	809	0.9−	0.5+	1998 11 23	699	1.2−	0.3+	2000 04 04	704	0.2+	0.5−
1993 09 18	809	1.4+	0.7+	1998 11 23	699	0.4+	0.1−	2000 04 05	704	0.0	0.1+
1993 09 18	809	1.6+	0.2−	1998 11 23	699	0.1−	0.4−	2000 04 05	704	0.1+	0.3+
1993 09 18	809	0.3+	1.5−	1998 12 16	699	1.2+	0.7+	2000 04 05	704	0.3−	0.0
1993 09 18	675	(3.0− 0.4+)		1998 12 16	699	0.6−	0.6+	2000 04 05	704	0.0	0.3+
1993 09 18	675	(2.5− 0.3−)		1998 12 16	699	0.1+	0.6+	2000 04 05	704	0.1−	0.2+
1993 09 22	809	0.0	0.7+	2000 03 08	704	0.1−	0.3+	2000 04 06	704	0.3+	0.0
1993 09 22	809	1.7−	1.7+	2000 03 08	704	0.2−	0.1−	2000 04 06	704	0.1−	0.3+
1993 09 22	809	2.0−	1.1+	2000 03 08	704	0.9+	0.4+	2000 04 06	704	0.2−	0.1+
1993 09 22	675	(3.2− 1.1−)		2000 03 08	704	0.1−	0.1+	2000 04 06	704	0.6−	0.1−
1993 09 24	809	(0.1+ 5.2+)		2000 03 08	704	0.5−	0.1+	2000 04 06	704	0.3+	0.2+
1993 09 24	809	(2.0− 2.3+)		2000 03 10	704	0.2+	0.2+	2000 04 07	699	0.7−	0.4+
1993 09 24	809	(0.9− 2.3+)		2000 03 10	704	0.6+	0.1−	2000 04 07	699	0.7−	0.4+
1996 04 20	809	1.0−	0.9−	2000 03 10	704	0.3+	0.3+	2000 04 07	699	1.0−	0.9+
1996 04 20	809	1.4−	1.2−	2000 03 10	704	0.6+	0.4+	2000 04 07	699	0.4−	0.2+
1996 04 20	809	1.0−	0.6−	2000 03 10	704	0.5+	0.5+	2000 04 08	704	0.1+	0.2+
1996 04 21	809	1.8+	0.6+	2000 03 11	704	0.1+	0.1+	2000 04 08	704	0.7+	0.3+
1996 04 21	809	0.7+	1.3+	2000 03 11	704	0.0	0.6−	2000 04 08	704	0.6+	0.2+
1996 04 21	809	1.0+	1.2+	2000 03 11	704	0.1+	0.3−	2000 04 08	704	0.4+	0.8+
1996 05 22	809	(0.4− 3.0+)		2000 03 11	704	0.5−	1.1−	2000 04 08	704	0.3+	0.5+

1993 RA₁₃ = 2000 EM₅₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	189.44826		(2000.0)	P		Q	
<i>n</i>	0.22895757	ω	155.51100	+0.93399117		+0.35728595	
<i>a</i>	2.6462612	Ω	183.55864	−0.33454360		+0.87184664	
<i>e</i>	0.2085104	<i>i</i>	2.48372	−0.12546342		+0.33500775	
<i>P</i>	4.30	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809	(2.8+ 0.7+)		1997 06 27	327	0.1+	0.1−	2000 03 10	691	0.2+	0.1+
1993 09 14	809	0.6+	0.2−	1997 06 27	327	0.5−	0.3+	2000 03 10	691	0.3+	0.2−
1993 09 14	809	1.3+	0.1+	1997 06 27	327	0.4+	0.2−	2000 03 11	704	0.4+	0.5+
1993 09 15	691	1.5−	0.1−	2000 03 03	691	0.3−	0.2−	2000 03 11	704	0.2−	0.1−
1993 09 15	691	0.5−	0.1+	2000 03 03	691	0.2−	0.2−	2000 03 11	704	0.5−	0.7+
1993 09 15	691	0.6−	0.1+	2000 03 03	704	0.3+	0.1+	2000 03 12	691	0.2−	0.3−
1993 09 19	809	0.7−	0.5−	2000 03 03	691	0.3−	0.4−	2000 03 12	691	0.1−	0.4−
1993 09 19	809	1.2+	1.2−	2000 03 03	704	1.2+	1.2+	2000 03 12	691	0.5−	0.4−
1993 09 19	809	1.0+	0.5−	2000 03 03	704	0.1−	0.5+	2000 03 14	691	0.1−	0.3−
1993 09 19	675	0.9−	1.6+	2000 03 03	704	0.7−	0.3+	2000 03 14	691	0.0	0.7−
1993 09 19	675	0.2+	0.4+	2000 03 10	691	0.4+	0.1+	2000 03 14	691	0.1+	0.6−

1993 RZ₁₄ = 2000 CL₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	33.95072		(2000.0)	P		Q	
<i>n</i>	0.36602455	ω	116.54867	−0.46740560		−0.88400696	
<i>a</i>	1.9355122	Ω	1.39536	+0.64856045		−0.34902385	
<i>e</i>	0.0778401	<i>i</i>	19.13261	+0.60075065		−0.31098882	
<i>P</i>	2.69	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	0.3+	0.4−	2000 01 31	704	0.5+	0.3−	2000 03 04	704	0.9−	1.3+
1993 09 15	809	0.6+	0.4−	2000 01 31	704	0.8−	0.3−	2000 03 04	704	0.7+	1.1+
1993 09 15	809	0.4+	0.4+	2000 01 31	704	1.1+	0.4−	2000 03 12	704	0.4+	0.0
1993 09 17	809	0.1−	0.8−	2000 02 02	704	0.7+	0.7−	2000 03 12	704	0.6−	0.4−
1993 09 17	809	0.2+	1.3−	2000 02 02	704	0.9+	0.4−	2000 03 12	704	0.8−	0.2−
1993 09 17	809	0.3+	1.0−	2000 02 02	704	0.3−	0.4+	2000 03 12	704	0.8−	0.3−
1993 09 18	809	1.7+	1.2+	2000 02 03	704	0.2−	0.6+	2000 03 12	704	0.7−	0.9−
1993 09 18	809	0.9+	1.6+	2000 02 03	704	1.2−	0.1+	2000 04 03	699	0.2−	0.6−
1993 09 18	809	0.2+	1.5+	2000 02 03	704	1.2+	0.5−	2000 04 03	699	0.2−	0.0
1993 09 18	691	1.7−	0.3−	2000 03 04	704	0.6+	0.0	2000 04 03	699	0.5−	0.8−
1993 09 18	691	1.1−	0.6−	2000 03 04	704	0.9+	0.1+	2000 04 03	699	0.4−	0.1−
1993 09 18	691	0.5−	1.3−	2000 03 04	704	0.1−	0.5+				

1993 RF₁₅ = 2000 DU₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22264663	ω	151.77329	+0.78954085	+0.61367669		
<i>a</i>	2.6960336	Ω	170.36588	−0.56865158	+0.73469662		
<i>e</i>	0.2185020	<i>i</i>	1.75171	−0.23078265	+0.28917433		
<i>P</i>	4.43	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	1.7+	1.6−	1993 09 22	809	0.3−	1.2−	2000 02 26	691	0.2+	0.3−
1993 09 15	809	(0.9−	2.6−)	1993 09 22	809	1.1−	1.2−	2000 02 26	691	0.0	0.2−
1993 09 15	809	(0.9−	2.6−)	1993 09 23	675	0.7+	0.3+	2000 03 02	691	0.2−	0.3−
1993 09 19	675	0.2+	0.4−	1993 09 23	675	0.6+	1.0+	2000 03 02	691	0.1−	0.1−
1993 09 19	675	0.5−	0.4+	1993 10 10	675	0.9−	0.0	2000 03 02	691	0.3−	0.2−
1993 09 20	691	0.7−	0.2+	1993 10 10	675	1.2+	1.0+	2000 03 04	691	0.0	0.6−
1993 09 20	691	0.6−	0.1+	1998 11 17	684	0.0	0.3+	2000 03 04	691	0.1−	0.3−
1993 09 20	691	0.4−	0.0	1998 11 17	684	0.1−	0.8+	2000 03 04	691	0.2−	0.3−
1993 09 22	809	0.7+	0.2−	2000 02 26	691	0.0	0.1−				

1993 SQ₁ = 2000 CF₈₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21946238	ω	340.54724	+0.98177198	−0.17049345		
<i>a</i>	2.7220493	Ω	29.66321	+0.18897308	+0.82838510		
<i>e</i>	0.1878227	<i>i</i>	9.77202	+0.02032153	+0.53358234		
<i>P</i>	4.49	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 09 16	400	0.5+	0.6+	1999 01 16	704	0.1+	0.3+	2000 03 11	699	1.5−	0.7+
1993 09 16	400	0.7−	0.5−	1999 01 16	704	0.2−	0.1+	2000 03 11	699	1.4−	0.2+
1993 09 18	400	1.3−	0.8+	1999 01 16	704	0.9+	0.5−	2000 03 11	699	1.3−	0.7+
1993 09 18	400	0.6+	1.0+	1999 01 16	704	0.6−	0.9−	2000 03 11	699	1.2−	0.4+
1993 10 11	400	0.8+	0.6−	1999 01 16	704	(2.1−	0.4−)	2000 03 12	704	0.4+	0.2+
1993 10 11	400	0.5−	1.1−	2000 02 04	704	0.6+	0.2−	2000 03 12	704	0.3−	0.4+
1993 10 13	675	0.6−	0.4+	2000 02 04	704	0.2+	0.6−	2000 03 12	704	0.4+	0.6+
1993 10 13	675	1.0+	0.5−	2000 02 04	704	0.7+	0.1−	2000 03 12	704	0.4+	0.8+
1993 10 15	400	(0.1−	2.4+)	2000 02 04	704	0.6+	1.5−	2000 03 28	704	0.1+	0.2−
1993 10 15	400	(1.8+	3.8+)	2000 02 04	704	0.1+	0.0	2000 03 28	704	1.1+	0.2+
1993 10 15	010	(4.0+	1.5+)	2000 02 11	704	0.7−	0.2+	2000 03 28	704	0.1−	0.3+
1993 10 15	010	(4.2+	1.3+)	2000 02 11	704	0.0	0.4−	2000 04 03	704	0.7−	0.3−
1993 10 15	010	(4.8+	1.4+)	2000 02 11	704	0.6+	0.2−	2000 04 03	704	0.2+	0.7+
1998 11 16	704	0.0	1.9+	2000 02 11	704	0.4−	0.4+	2000 04 03	704	0.7+	0.2−
1998 11 16	704	0.1−	0.0	2000 02 11	704	0.1+	0.3+	2000 04 03	704	0.7+	0.5+
1998 11 16	704	0.3+	0.7−	2000 02 26	703	0.4−	0.6−	2000 04 03	704	0.5+	0.4+
1998 11 16	704	0.5−	1.7−	2000 02 26	703	0.4−	1.1+	2000 04 08	704	1.1+	1.4−
1998 11 16	704	1.4−	0.5+	2000 02 26	703	0.0	1.1−	2000 04 08	704	0.0	0.5+
1998 12 14	704	0.2+	0.3+	2000 02 26	703	(1.0+	2.5+)	2000 04 08	704	0.3+	0.5−
1998 12 14	704	0.8+	0.2+	2000 02 29	704	0.9+	0.4−	2000 04 08	704	0.1−	0.5+
1998 12 14	704	1.6+	0.4+	2000 02 29	704	0.1−	0.1−	2000 04 08	704	0.4−	0.1−
1998 12 14	704	1.1−	0.6+	2000 02 29	704	0.1−	0.3−				
1998 12 14	704	0.1−	0.1−	2000 02 29	704	0.1−	0.3−				

1993 SD₁₁ = 2000 EV₆₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21565139	ω	84.75198	+0.26070756	−0.96537808		
<i>a</i>	2.7540250	Ω	350.12275	+0.86429651	+0.23743318		
<i>e</i>	0.1041800	<i>i</i>	2.92710	+0.43014312	+0.10803077		
<i>P</i>	4.57	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 18	809	(4.9+	0.2+)	2000 03 10	704	0.2+	0.6−	2000 04 04	704	0.2+	0.7−
1993 09 18	809	(4.2+	0.2+)	2000 03 11	704	0.3+	0.4+	2000 04 04	704	0.3+	0.1−
1993 09 18	809	(3.5+	1.5+)	2000 03 11	704	0.6+	0.2−	2000 04 05	704	0.2+	0.1−
1993 09 22	809	0.9+	0.1−	2000 03 11	704	0.2−	0.5+	2000 04 05	704	0.4+	0.1−
1993 09 22	809	0.7−	0.6−	2000 03 11	704	0.0	0.5+	2000 04 05	704	0.5+	0.4−
1993 09 22	809	0.6+	0.1−	2000 03 11	704	0.2+	0.3−	2000 04 05	704	0.3+	0.7−
1993 09 24	809	0.2+	1.1+	2000 03 14	703	0.3+	0.9+	2000 04 05	704	0.4+	0.4−
1993 09 24	809	0.9−	0.6−	2000 03 14	703	0.1−	0.7+	2000 04 06	704	0.6−	0.1+
1993 09 24	809	(3.3−	0.8+)	2000 03 14	703	0.1−	0.2+	2000 04 06	704	0.9+	0.4−
2000 02 25	691	0.2−	0.6−	2000 03 14	703	1.6+	0.2−	2000 04 06	704	0.4−	0.8−
2000 02 25	691	0.4−	0.7−	2000 03 26	699	0.5+	0.4−	2000 04 06	704	0.5−	0.1−
2000 02 25	691	0.0	0.5−	2000 03 26	699	0.1−	0.0	2000 04 07	699	0.7−	0.1+
2000 03 10	704	0.4−	0.5+	2000 03 26	699	0.0	0.3+	2000 04 07	699	0.5−	0.8+
2000 03 10	704	0.2−	0.0	2000 03 26	699	1.4−	0.5+	2000 04 07	699	0.7−	0.4+
2000 03 10	704	0.7−	0.8+	2000 04 04	704	1.5+	0.3+	2000 04 07	699	0.8−	0.0
2000 03 10	704	0.5−	0.1+	2000 04 04	704	0.0	0.0				

1993 TV₁₀ = 2000 EW₁₀₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22552317	ω	33.34659	−0.29065764	+0.94836873		
<i>a</i>	2.6730594	Ω	220.17084	−0.91527350	−0.31425067		
<i>e</i>	0.1494113	<i>i</i>	11.34943	−0.27891316	+0.04293341		
<i>P</i>	4.37	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 15	691	0.1−	0.8+	2000 01 11	704	0.5−	0.8−	2000 03 08	704	0.1+	0.5+
1993 10 15	691	0.0	0.4+	2000 02 07	703	0.4+	0.1+	2000 03 08	608	0.8−	0.1−
1993 10 15	691	0.6−	0.0	2000 02 07	703	0.1+	0.3−	2000 03 08	608	0.8−	0.4−
1993 10 16	691	0.2+	0.2+	2000 02 07	703	0.3−	0.3+	2000 03 08	608	0.6−	0.2−
1993 10 16	691	0.2+	0.1+	2000 02 07	703	1.5−	1.0+	2000 03 13	704	0.0	0.4−
1993 10 16	691	0.2+	0.2+	2000 02 10	704	0.6+	0.2−	2000 03 13	704	0.1−	0.5+
1993 10 20	691	0.3−	0.3−	2000 02 10	704	0.0	0.2+	2000 03 13	704	0.8−	1.2−
1993 10 20	691	(1.1+	2.1−)	2000 02 10	704	1.0+	0.0	2000 04 04	699	0.3+	0.3+
1993 10 20	691	0.1+	0.2−	2000 03 03	703	0.4+	0.1+	2000 04 04	699	0.3−	1.1+
2000 01 11	699	0.1+	0.5+	2000 03 03	703	0.1−	0.2+	2000 04 04	699	0.0	0.1+
2000 01 11	699	0.9+	0.1+	2000 03 03	703	0.1+	0.4−	2000 04 04	699	0.4+	0.2+
2000 01 11	704	0.5−	0.0	2000 03 03	703	0.1−	0.3−	2000 04 04	704	0.8+	1.0+
2000 01 11	704	0.1−	0.5−	2000 03 08	704	0.0	0.0	2000 04 04	704	0.2+	0.9+
2000 01 11	699	0.8−	0.2−	2000 03 08	704	0.3+	0.0	2000 04 04	704	0.3+	0.7+
2000 01 11	704	1.0+	0.4−	2000 03 08	704	0.3+	0.4−	2000 04 04	704	0.5+	0.4+
2000 01 11	704	0.7+	1.3−	2000 03 08	704	0.4−	0.3−				

1993 TQ₁₇ = 2000 DR₆₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21604940	ω	190.63992	+0.99617460	−0.08690251		
<i>a</i>	2.7506416	Ω	174.32144	+0.08542950	+0.94641941		
<i>e</i>	0.0748566	<i>i</i>	5.31869	+0.01838401	+0.31102775		
<i>P</i>	4.56	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 09	809	0.2+	1.3+	2000 02 25	691	0.3−	0.1−	2000 03 03	691	0.7−	0.3−
1993 10 09	809	0.0	0.3+	2000 02 29	704	0.4+	0.0	2000 03 03	691	0.6−	0.3−
1993 10 09	809	0.1−	0.7+	2000 02 29	704	0.1−	0.7+	2000 03 11	704	0.2+	0.1+
1993 10 11	809	0.0	0.6−	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.3+	0.1−
1993 10 11	809	1.5−	1.0−	2000 02 29	704	0.8+	0.0	2000 03 11	704	0.0	0.5−
1993 10 11	809	1.1−	0.1−	2000 03 03	704	0.2+	0.1+	2000 03 11	704	0.4+	0.0
1993 10 20	809	0.5+	0.1−	2000 03 03	704	0.8+	0.1−	2000 03 11	699	0.5−	1.5+
1993 10 20	809	0.7+	0.0	2000 03 03	704	0.0	0.1+	2000 03 11	699	0.8−	0.4−
1993 10 20	809	1.1+	0.4−	2000 03 03	704	1.3+	0.5−	2000 03 11	699	0.8−	0.8+
2000 02 25	691	0.4−	0.6−	2000 03 03	704	1.8+	0.4−	2000 03 11	699	1.2−	0.6+
2000 02 25	691	0.0	0.2−	2000 03 03	691	0.7−	0.3−				

2000 APR. 18

M.P.C. 39953

1993 TD₂₀ = 2000 GG₁₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	210.70960	(2000.0)	P		Q	
<i>n</i>	0.22942943	ω	270.38067	+0.91795910	+0.39335205	
<i>a</i>	2.6426317	Ω	66.45669	-0.33808078	+0.84337416	
<i>e</i>	0.0851869	<i>i</i>	3.20391	-0.20749092	+0.36605217	
<i>P</i>	4.30	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 10 09	809	1.3+	1.0+	2000 03 08	704	0.7+	1.3+	2000 04 06	699	1.1-	0.0
1993 10 09	809	0.3+	0.5+	2000 03 08	704	0.5+	1.1+	2000 04 08	704	1.1+	0.3+
1993 10 09	809	0.3+	0.1-	2000 03 29	704	0.5-	0.6-	2000 04 08	704	0.4+	1.0-
1993 10 11	809	1.2+	1.2+	2000 03 29	704	0.6-	1.8-	2000 04 08	704	1.1-	0.1+
1993 10 11	809	2.1+	0.4+	2000 03 29	704	0.0	0.0	2000 04 08	704	0.6+	0.2-
1993 10 11	809	0.1-	0.7+	2000 03 29	704	0.6-	1.0-	2000 04 08	704	0.7+	0.2+
1993 10 20	809	1.2-	1.2-	2000 03 29	704	0.5+	0.7+	2000 04 10	704	0.2+	0.5-
1993 10 20	809	1.9-	1.9-	2000 04 06	699	0.5+	0.2-	2000 04 10	704	0.4+	0.4+
1993 10 20	809	1.8-	1.3-	2000 04 06	699	0.0	0.2+	2000 04 10	704	0.1-	0.4+
2000 03 08	704	1.6-	1.1+	2000 04 06	699	0.3-	0.9-				

1993 TV₂₂ = 2000 EJ₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.93988	(2000.0)	P		Q	
<i>n</i>	0.22795392	ω	123.88383	+0.59926461	+0.80049521	
<i>a</i>	2.6540229	Ω	182.98483	-0.78130204	+0.58224128	
<i>e</i>	0.0501042	<i>i</i>	10.45791	-0.17449654	+0.14213550	
<i>P</i>	4.32	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 10 09	809	0.9+	0.4+	2000 03 11	704	0.3-	0.1+	2000 04 06	704	0.1-	0.3+
1993 10 09	809	0.1+	0.4-	2000 03 11	704	0.2+	0.5-	2000 04 06	704	1.1+	0.3+
1993 10 09	809	0.2+	0.4+	2000 03 11	704	0.8+	0.1-	2000 04 06	704	0.4+	0.3-
1993 10 11	809	0.6+	0.2+	2000 03 11	704	0.3-	0.8-	2000 04 06	704	0.7+	0.0
1993 10 11	809	0.5-	1.0-	2000 03 11	704	0.9+	0.2+	2000 04 07	699	0.1-	0.3-
1993 10 11	809	0.5-	0.5-	2000 03 11	704	0.6+	0.7+	2000 04 07	699	1.0-	0.3-
1993 10 20	809	0.2-	0.5-	2000 03 11	704	1.6+	0.8+	2000 04 07	699	(2.4-	0.4+)
1993 10 20	809	0.5-	0.1-	2000 03 27	699	0.7-	0.7+	2000 04 07	699	0.1+	0.5+
1993 10 20	809	0.2-	1.3+	2000 03 27	699	0.9-	0.5+	2000 04 08	704	1.4+	0.7+
2000 03 10	704	0.2-	0.5-	2000 03 27	699	0.2-	0.5+	2000 04 08	704	0.6-	0.2+
2000 03 10	704	0.2-	0.1+	2000 03 27	699	0.6-	0.2+	2000 04 08	704	0.1+	0.6+
2000 03 10	704	0.2-	0.3-	2000 04 05	704	0.4-	0.3-	2000 04 10	704	0.5-	0.5+
2000 03 10	704	0.4-	0.7+	2000 04 05	704	0.3+	0.5-	2000 04 10	704	0.5-	1.0+
2000 03 10	704	0.9-	0.2+	2000 04 05	704	0.3+	0.6-	2000 04 10	704	0.5-	0.8-
2000 03 11	704	0.4-	0.5-	2000 04 05	704	0.6-	1.4-	2000 04 10	704	0.0	0.7-
2000 03 11	704	0.8-	0.4-	2000 04 05	704	0.9+	0.0				
2000 03 11	704	0.4+	0.1-	2000 04 06	704	0.5+	0.5-				

1993 TU₂₅ = 1987 KE₃ = 2000 FW₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	63.59206	(2000.0)	P		Q	
<i>n</i>	0.21800148	ω	61.33412	-0.30189809	-0.95029527	
<i>a</i>	2.7341967	Ω	46.44911	+0.83391104	-0.30193646	
<i>e</i>	0.0190949	<i>i</i>	6.02989	+0.46200640	-0.07598202	
<i>P</i>	4.52	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

1987 05 30	413	0.5-	0.1-	2000 03 12	703	0.0	0.0	2000 04 07	699	0.4-	0.2+
1987 05 30	413	0.6+	0.5+	2000 03 12	703	0.4-	1.0-	2000 04 07	699	0.2-	0.4+
1993 10 09	809	0.4-	0.2+	2000 03 12	704	1.0+	0.5+	2000 04 07	699	0.3-	0.2+
1993 10 09	809	0.5-	0.6-	2000 03 12	704	0.3+	0.5-	2000 04 08	704	0.6+	0.0
1993 10 09	809	0.6-	0.5+	2000 03 12	704	0.4+	0.0	2000 04 08	704	0.2-	0.2-
1993 10 11	809	1.3+	0.0	2000 03 12	704	0.1-	0.6-	2000 04 08	704	0.3-	0.1+
1993 10 11	809	0.1+	0.0	2000 03 26	699	0.6-	0.2-	2000 04 08	704	0.1+	0.3+
1993 10 11	809	0.2+	0.1-	2000 03 26	699	0.2-	0.4-	2000 04 08	704	0.2+	0.3+
1993 10 20	809	(0.2-	3.2+)	2000 03 26	699	0.3-	0.0	2000 04 10	704	0.7+	0.3+

1993 10 20	809	(0.0	2.9+)	2000 03 26	699	0.2+	0.1+	2000 04 10	704	0.2-	0.4+
1993 10 20	809	(0.5-	2.9+)	2000 03 28	704	0.0	0.1+	2000 04 10	704	0.5+	0.3-
2000 02 11	704	0.5+	0.3-	2000 03 28	704	0.1-	0.1+	2000 04 10	608	0.3-	0.8-
2000 02 11	704	0.2+	0.3+	2000 03 28	704	0.4-	0.1+	2000 04 10	704	0.1+	0.4-
2000 02 11	704	0.9+	0.4+	2000 04 05	704	0.5-	0.4+	2000 04 10	608	0.4-	0.3-
2000 02 11	704	0.0	0.2-	2000 04 05	704	0.0	0.1+	2000 04 10	704	0.2+	1.1-
2000 02 11	704	0.6+	1.3+	2000 04 05	704	0.3-	0.6+	2000 04 10	608	0.4-	0.7-
2000 03 12	703	0.4-	0.2+	2000 04 05	704	0.4-	0.1-				
2000 03 12	703	0.2+	0.5+	2000 04 07	699	0.2-	0.0				

1993 TK₂₈ = 1996 JM₂

Id. A. Gnädig, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	330.45035	(2000.0)	P		Q	
<i>n</i>	0.27298766	ω	243.57334	+0.54202911	+0.83894138	
<i>a</i>	2.3534630	Ω	59.33318	-0.74939335	+0.50882052	
<i>e</i>	0.2278109	<i>i</i>	3.25265	-0.38028154	+0.19307782	
<i>P</i>	3.61	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 10 09	809	0.5+	0.5+	1993 10 20	809	2.0+	0.2+	1996 05 21	566	0.6+	1.3-
1993 10 09	809	0.3-	0.5+	1993 10 20	809	1.2+	0.5+	1997 11 29	704	0.7-	0.3-
1993 10 09	809	0.4-	0.5+	1996 05 14	566	0.5-	1.3+	1997 11 29	704	1.4+	0.8-
1993 10 11	809	1.5-	0.6-	1996 05 14	566	0.5-	1.5+	1997 11 29	704	0.4+	0.2+
1993 10 11	809	1.6-	0.7-	1996 05 14	566	0.7-	1.4+	1997 11 29	704	1.2-	1.6+
1993 10 11	809	1.5-	0.5-	1996 05 21	566	0.7+	0.7-				
1993 10 20	809	1.5+	0.1+	1996 05 21	566	0.7+	1.5-				

1993 TR₂₈

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	85.37955	(2000.0)	P		Q	
<i>n</i>	0.21986921	ω	303.26516	-0.10358508	-0.99418148	
<i>a</i>	2.7186905	Ω	152.63469	+0.93259565	-0.10741065	
<i>e</i>	0.0574825	<i>i</i>	3.68611	+0.34573904	-0.00813233	
<i>P</i>	4.48	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1993 10 09	809	0.1+	0.6+	1993 10 20	809	1.3+	0.6+	2000 04 04	704	0.2-	0.6+
1993 10 09	809	0.5-	0.1+	1993 10 20	809	0.4+	1.8+	2000 04 04	704	0.6-	0.5-
1993 10 09	809	1.4-	0.2-	1998 12 15	704	0.2-	1.2-	2000 04 04	704	0.3-	0.7-
1993 10 11	809	1.1+	0.7+	1998 12 15	704	1.3+	1.2+	2000 04 04	704	0.8-	0.7-
1993 10 11	809	0.6-	0.4-	1998 12 15	704	0.6+	0.4+	2000 04 08	704	0.2-	0.8-
1993 10 11	809	1.1-	0.5-	1998 12 15	704	1.6-	0.6-	2000 04 08	704	1.9+	0.1-
1993 10 11	809	0.4-	0.9-	2000 03 09	704	0.8+	0.5+	2000 04 08	704	0.1+	1.0+
1993 10 11	809	0.7+	0.3-	2000 03 09	704	0.6+	0.1+	2000 04 08	704	0.0	0.8+
1993 10 11	809	1.0-	1.0-	2000 03 09	704	0.5-	0.3-				
1993 10 20	809	1.2+	0.3+	2000 03 09	704	0.5-	0.8+				

1993 TW₃₂ = 2000 EF₁₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	150.60539	(2000.0)	P		Q	
<i>n</i>	0.21796112	ω	237.45164	+0.92779308	-0.37157253	
<i>a</i>	2.7345342	Ω	144.32869	+0.35874428	+0.86367472	
<i>e</i>	0.0864888	<i>i</i>	3.31035	+0.10248191	+0.34058749	
<i>P</i>	4.52	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1993 10 09	809	0.4+	0.7+	1993 10 21	809	0.8-	0.5-	2000 03 11	704	0.9-	1.2-
1993 10 09	809	0.5+	0.4+	2000 03 10	704	0.3-	0.8+	2000 03 11	704	0.2-	0.9-
1993 10 09	809	0.8+	0.8+	2000 03 10	704	1.0+	1.0+	2000 04 05	704	0.3+	0.4+
1993 10 11	809	0.1+	0.4-	2000 03 10	704	0.3-	1.2+	2000 04 05	704	0.5+	0.3+
1993 10 11	809	0.8-	0.2-	2000 03 10	704	1.9+	1.7+	2000 04 05	704	0.0	0.9-
1993 10 11	809	0.6+	0.1-	2000 03 11	704	0.8-	0.8-	2000 04 05	704	0.1+	0.2+

1993 10 21 809 0.5− 0.3− 2000 03 11 704 1.1− 0.8− 2000 04 05 704 0.5+ 0.3−
 1993 10 21 809 0.2− 0.3− 2000 03 11 704 0.8− 0.7−

1993 TB₃₈ = 2000 GH₈₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	319.87029	ω	102.98022	+0.52049533	+0.85137419		
<i>a</i>	2.6343789	Ω	135.45573	−0.81499950	−0.47259206		
<i>e</i>	0.0884800	<i>i</i>	5.33048	−0.25467709	−0.22763727		
<i>P</i>	4.28	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 10 09 809 1.0+ 0.3− 1994 12 28 691 0.0 0.2+ 2000 04 07 699 0.2− 0.2+
 1993 10 09 809 0.2+ 1.8− 1994 12 28 691 0.0 0.1+ 2000 04 07 699 0.1− 0.2+
 1993 10 09 809 0.8− 0.4− 2000 03 08 691 0.3− 0.7− 2000 04 07 699 0.6− 0.2−
 1993 10 11 809 0.6− 0.5+ 2000 03 08 691 0.2− 0.7− 2000 04 07 699 0.1+ 0.4+
 1993 10 11 809 0.1+ 0.1+ 2000 03 08 691 0.2− 0.8− 2000 04 08 704 0.0 0.0
 1993 10 11 809 0.5− 0.8+ 2000 04 04 704 0.3− 0.7+ 2000 04 08 704 0.1+ 0.1+
 1993 10 21 809 0.4+ 0.5− 2000 04 04 704 0.7+ 0.1− 2000 04 08 704 0.1− 0.2+
 1993 10 21 809 0.2+ 0.4+ 2000 04 04 704 0.1− 0.3− 2000 04 08 704 0.5+ 0.7+
 1993 10 21 809 0.1+ 0.8+ 2000 04 04 704 0.0 0.1− 2000 04 08 704 0.0 0.2+
 1994 12 28 691 0.1+ 0.0 2000 04 04 704 0.4+ 0.4−

1993 UF₁ = 2000 EH₅₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	175.77373	ω	311.68610	+0.94770627	+0.23823612		
<i>a</i>	1.9261114	Ω	36.08093	−0.05003406	+0.76808490		
<i>e</i>	0.0926036	<i>i</i>	21.13620	−0.31519742	+0.59438131		
<i>P</i>	2.67	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 12 095 (1.8− 3.3+) 2000 01 03 704 1.3+ 0.3− 2000 03 12 704 0.1+ 0.2−
 1993 10 20 675 (1.5− 4.1−) 2000 01 31 704 0.4+ 0.4− 2000 03 15 704 0.1+ 0.1−
 1993 10 20 675 0.3− 1.0− 2000 01 31 704 0.7− 0.4+ 2000 03 15 704 0.2+ 0.0
 1993 10 21 675 0.9+ 0.5− 2000 01 31 704 0.0 0.3+ 2000 03 15 704 0.1− 0.2−
 1993 11 10 675 0.8− 0.9+ 2000 01 31 704 0.3+ 2.0+ 2000 03 15 704 0.2− 0.1+
 1993 11 10 675 0.6+ 0.0 2000 03 10 703 0.5− 0.3+ 2000 03 15 704 0.4− 0.1−
 1998 12 08 704 0.8− 1.0+ 2000 03 10 703 0.5− 0.2+ 2000 04 02 704 1.0− 0.5+
 1998 12 08 704 0.0 0.1− 2000 03 10 703 0.7− 0.6+ 2000 04 02 704 0.3− 1.3−
 1998 12 08 704 0.1− 0.6+ 2000 03 10 703 0.1− 0.0 2000 04 02 704 0.5+ 0.3−
 1998 12 08 704 0.0 0.0 2000 03 11 703 0.3+ 0.0 2000 04 02 704 0.2− 1.2−
 1998 12 08 704 (2.4− 0.3−) 2000 03 11 703 0.8+ 1.7+ 2000 04 08 704 0.1+ 0.1−
 2000 01 03 704 0.2− 0.1+ 2000 03 12 704 0.0 0.1− 2000 04 08 704 0.4+ 0.7−
 2000 01 03 704 0.1− 0.5− 2000 03 12 704 0.2− 0.5− 2000 04 08 704 0.7+ 0.3+
 2000 01 03 704 0.0 0.2+ 2000 03 12 704 0.4+ 0.4− 2000 04 08 704 0.1+ 0.2+
 2000 01 03 704 1.1− 0.0 2000 03 12 704 0.3+ 0.3− 2000 04 08 704 0.6+ 0.3+

1993 UV₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	131.48637	ω	293.01068	+0.68962279	−0.59974529		
<i>a</i>	1.9210304	Ω	106.40645	+0.71507056	+0.65252100		
<i>e</i>	0.0861696	<i>i</i>	25.02994	−0.11443120	+0.46316512		
<i>P</i>	2.66	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 20 413 0.4− 0.6− 1993 10 27 413 0.2+ 0.1+ 2000 04 10 699 0.5+ 0.1−
 1993 10 20 413 1.7+ 1.1+ 1993 10 27 413 0.4+ 0.1− 2000 04 12 699 0.0 0.6−
 1993 10 26 413 0.5− 0.1− 1993 10 27 413 0.1+ 0.1− 2000 04 12 699 1.0+ 0.9−
 1993 10 26 413 0.5− 0.0 1993 10 27 413 0.1+ 0.0 2000 04 12 699 0.9+ 0.2−

1993 10 26 413 0.4− 0.1− 2000 04 10 699 0.6− 0.1+ 2000 04 12 699 0.4− 0.1+
 1993 10 26 413 0.3− 0.2− 2000 04 10 699 0.5− 0.6+
 1993 10 26 413 0.4− 0.1− 2000 04 10 699 0.9− 0.9+

1993 VX₁ = 2000 GB₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	187.27628	ω	16.33440	+0.99429239	−0.10643969		
<i>a</i>	2.6647737	Ω	349.76743	+0.09271566	+0.89587560		
<i>e</i>	0.2552391	<i>i</i>	2.35382	+0.05278679	+0.43136702		
<i>P</i>	4.35	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 11 11 399 0.3+ 0.6+ 1997 09 02 566 0.0 0.1+ 2000 04 06 704 0.2+ 0.9+
 1993 11 11 399 1.0− 0.8− 1997 09 02 566 0.1− 0.0 2000 04 06 704 0.6− 0.6−
 1993 11 16 399 1.4+ 0.5+ 2000 04 05 704 0.0 0.3+ 2000 04 06 704 0.5− 0.9+
 1993 11 16 399 0.7− 1.0− 2000 04 05 704 1.0− 0.3+ 2000 04 06 704 0.9+ 0.9−
 1993 11 22 399 1.2− 0.0 2000 04 05 704 0.8+ 0.2+ 2000 04 10 691 0.5− 0.3−
 1993 11 22 399 1.2+ 0.7+ 2000 04 05 704 0.0 0.3+ 2000 04 10 691 0.0 0.7−
 1997 09 02 566 0.1+ 0.1− 2000 04 05 704 1.0+ 0.5− 2000 04 10 691 0.2− 0.0

1994 AD₅ = 2000 EA₁₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	254.15809	ω	243.70352	+0.38224729	+0.92391956		
<i>a</i>	2.9770553	Ω	48.77903	−0.83998573	+0.35468366		
<i>e</i>	0.0551635	<i>i</i>	1.22753	−0.38511165	+0.14342992		
<i>P</i>	5.14	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 01 05 691 0.8− 0.3+ 1994 01 19 691 0.1+ 0.3− 2000 03 14 691 0.7− 1.3−
 1994 01 05 691 0.7+ 0.1− 1994 01 19 691 0.1− 0.4− 2000 04 05 704 0.2− 0.9+
 1994 01 05 691 0.1+ 0.1− 2000 03 10 704 0.2+ 1.4+ 2000 04 05 704 0.5− 0.5−
 1994 01 14 691 0.1+ 0.1− 2000 03 10 704 0.2− 0.5+ 2000 04 05 704 1.1+ 0.8−
 1994 01 14 691 0.1− 0.1+ 2000 03 10 704 0.5+ 0.3+ 2000 04 05 704 0.1− 1.0+
 1994 01 14 691 0.1+ 0.3+ 2000 03 14 691 0.1− 0.9−
 1994 01 19 691 0.0 0.3+ 2000 03 14 691 0.0 0.5−

1994 BO₃ = 2000 EV₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	92.81754	ω	257.35882	+0.82350103	−0.52913060		
<i>a</i>	3.1508401	Ω	134.14871	+0.56427685	+0.80123605		
<i>e</i>	0.2523780	<i>i</i>	16.56856	−0.05863186	+0.27935928		
<i>P</i>	5.59	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 01 16 010 1.0+ 0.6− 2000 02 06 703 0.8+ 0.5− 2000 03 05 704 0.4+ 0.1+
 1994 01 16 010 0.6+ 1.0− 2000 02 06 703 0.3− 0.2− 2000 03 08 704 0.4− 0.0
 1994 01 17 010 0.6+ 0.8+ 2000 02 11 704 0.6+ 0.8+ 2000 03 08 704 0.1+ 0.1−
 1994 01 17 010 0.4+ 0.2+ 2000 02 11 704 0.5− 0.5− 2000 03 08 704 0.0 0.3−
 1994 01 17 010 0.3+ 0.3+ 2000 02 11 704 0.0 0.6− 2000 03 08 704 0.0 0.1+
 1994 01 30 010 0.6− 0.1− 2000 02 11 704 0.2− 0.3+ 2000 03 08 704 0.2− 0.1−
 1994 01 30 010 0.9+ 0.4+ 2000 02 11 704 0.3+ 0.5− 2000 03 09 704 0.4− 0.3−
 1994 01 31 010 1.1− 0.7− 2000 03 04 704 (1.0+ 3.5+) 2000 03 09 704 0.3− 0.2+
 1994 01 31 010 0.9− 1.1+ 2000 03 04 704 (0.2− 3.0+) 2000 03 09 704 0.2− 0.5−
 1994 01 31 010 1.2− 0.7− 2000 03 04 704 0.3+ 0.3+ 2000 03 09 704 0.2− 0.1−
 1999 12 05 704 0.1− 0.1+ 2000 03 04 704 0.1− 1.5+ 2000 03 09 704 0.4− 0.0
 1999 12 05 704 0.7+ 0.2+ 2000 03 04 704 0.4+ 1.0+ 2000 03 11 699 0.8+ 0.3+
 1999 12 05 704 0.9− 0.0 2000 03 05 704 0.3− 0.6− 2000 03 11 699 0.1− 0.3−
 1999 12 05 704 0.2− 0.7+ 2000 03 05 704 0.7+ 0.4+ 2000 03 11 699 0.1+ 0.4+
 2000 02 03 704 0.1+ 0.2− 2000 03 05 704 0.4− 0.4+ 2000 03 11 699 0.6+ 0.2+
 2000 02 03 704 0.1+ 0.4+ 2000 03 05 704 0.2− 0.5+ 2000 03 12 704 0.0 0.5+
 2000 02 03 704 0.1+ 0.0 2000 03 05 704 1.1− 0.0 2000 03 12 704 0.0 0.1+

2000 APR. 18

M.P.C. 39955

2000 02 03	704	0.3−	0.3−	2000 03 05	704	0.0	1.0−	2000 03 12	704	0.9−	0.3−
2000 02 03	704	0.1−	0.2−	2000 03 05	704	0.9+	0.3+	2000 03 12	704	0.1−	1.8−
2000 02 06	703	0.3−	0.0	2000 03 05	704	0.8+	0.3−				
2000 02 06	703	0.3+	0.1+	2000 03 05	704	0.0	0.1+				

1994 CF₆ = 2000 FK₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	3.95561		(2000.0)	P	Q
<i>n</i>	0.17396562	ω	27.91581	−0.98976161	−0.08767617
<i>a</i>	3.1780478	Ω	146.46430	+0.05940105	−0.97053711
<i>e</i>	0.1392316	<i>i</i>	11.76312	+0.12978242	−0.22443396
<i>P</i>	5.67	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1994 02 12	691	0.0	0.1−	1994 03 04	691	0.1−	0.2+	2000 04 03	704	(0.7−	2.2+)
1994 02 12	691	0.1+	0.4+	2000 03 12	703	0.1−	0.7+	2000 04 03	704	0.8+	0.8−
1994 02 12	691	0.3+	0.1+	2000 03 12	703	0.2+	0.1+	2000 04 03	704	0.5−	0.5−
1994 02 14	675	(0.5+ 2.9−)		2000 03 12	703	0.6−	0.1+	2000 04 03	704	0.4+	0.2−
1994 02 14	675	0.0	1.0−	2000 03 12	703	0.8−	0.3+	2000 04 03	704	0.5−	1.1−
1994 02 15	691	0.0	0.2−	2000 03 29	704	0.4−	0.2+	2000 04 08	704	0.0	0.8−
1994 02 15	691	0.2−	0.7+	2000 03 29	704	0.0	0.1−	2000 04 08	704	1.0+	0.6+
1994 02 15	691	0.1+	0.3−	2000 03 29	704	0.6−	1.2+	2000 04 08	704	0.5+	0.0
1994 03 04	691	0.1−	0.0	2000 03 29	704	0.1+	0.5−	2000 04 08	704	0.1−	0.3+
1994 03 04	691	0.1−	0.0	2000 03 29	704	0.5−	0.3+	2000 04 08	704	1.0+	0.3+

1994 CS₉ = 2000 FB₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	330.96336		(2000.0)	P	Q
<i>n</i>	0.17316416	ω	120.33670	−0.74769148	+0.66220058
<i>a</i>	3.1878463	Ω	101.17945	−0.62525433	+0.67696400
<i>e</i>	0.1606360	<i>i</i>	2.89080	−0.22363915	−0.32126334
<i>P</i>	5.69	<i>H</i>	14.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1994 02 07	809	1.7+	1.6+	2000 03 08	704	1.2+	0.5−	2000 04 04	704	(2.6+	1.0+)
1994 02 07	809	0.3−	1.6+	2000 03 08	704	0.0	0.6−	2000 04 04	704	0.5+	0.4−
1994 02 07	809	0.5−	0.6+	2000 03 08	704	0.2−	0.1+	2000 04 04	704	1.1+	0.3+
1994 02 09	809	(1.7+ 3.9+)		2000 03 08	704	0.2+	0.2−	2000 04 04	704	0.0	0.0
1994 02 09	809	(0.6+ 2.9+)		2000 03 08	704	0.1+	0.5−	2000 04 04	704	0.2+	0.4−
1994 02 09	809	1.0+	1.9+	2000 03 27	699	0.9+	0.1+	2000 04 06	699	0.0	0.1−
1994 02 12	809	0.8−	0.5+	2000 03 27	699	0.3+	0.2−	2000 04 06	699	0.1−	0.6+
1994 02 12	809	1.7−	1.2−	2000 03 27	699	0.4−	0.0	2000 04 06	699	0.1+	0.0
1994 02 12	809	1.9−	0.5−	2000 03 27	699	0.2−	0.1−	2000 04 06	699	0.2−	0.2−
1994 02 15	675	(1.6+ 2.7−)		2000 03 29	704	0.0	0.9+	2000 04 08	704	0.3−	0.7−
1994 02 15	675	(2.1+ 3.5−)		2000 03 29	704	0.0	0.3−	2000 04 08	704	0.1+	0.5−
1994 03 05	691	0.6+	1.4−	2000 03 29	704	0.1−	0.1−	2000 04 08	704	0.3−	0.1−
1994 03 05	691	1.4+	1.2−	2000 03 29	704	0.0	0.3+	2000 04 08	704	0.4+	0.1+
1994 03 05	691	0.5+	1.5−	2000 03 29	704	0.0	0.0	2000 04 08	704	0.6+	0.8+
2000 03 01	703	1.1−	0.0	2000 04 02	699	0.2−	0.4−	2000 04 10	704	0.4−	0.5+
2000 03 01	703	0.3−	0.1−	2000 04 02	699	0.2−	0.3−	2000 04 10	704	0.2+	0.1+
2000 03 01	703	0.4−	0.1+	2000 04 02	699	0.0	0.7−	2000 04 10	704	0.1−	1.4+
2000 03 01	703	1.2−	0.1+	2000 04 02	699	0.0	0.2+	2000 04 10	704	0.1−	1.0+

1994 CS₁₃ = 1984 SE₈ = 1998 GP₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	335.48010		(2000.0)	P	Q
<i>n</i>	0.25166986	ω	0.73160	+0.99373615	−0.11034906
<i>a</i>	2.4845548	Ω	5.69506	+0.10160567	+0.82641360
<i>e</i>	0.2308638	<i>i</i>	10.24565	+0.04652684	+0.55214459
<i>P</i>	3.92	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1984 09 21	010	1.7+	0.5+	1994 02 13	809	(2.1−	3.8−)	1998 03 29	704	(0.9+	3.2−)
1994 02 08	809	0.0	0.9+	1994 02 15	691	0.1+	0.3−	1998 03 29	704	(0.6+	3.0−)

1994 02 08	809	1.3+	0.1+	1994 02 15	691	0.0	0.1−	1998 04 02	809	0.7−	0.5+
1994 02 08	809	0.4+	0.1−	1994 02 15	691	0.5+	0.2−	1998 04 02	809	1.0−	0.2+
1994 02 10	809	0.3+	0.2−	1998 03 26	704	0.9+	0.8−	1998 04 02	809	1.3−	0.6+
1994 02 10	809	0.1+	0.3−	1998 03 26	704	1.8+	1.4−	1998 04 03	809	(1.9+ 3.9+)	
1994 02 10	809	1.1−	0.3−	1998 03 26	704	(4.5+ 0.3+)		1998 04 03	809	(1.2+ 3.7+)	
1994 02 13	809	(0.5− 3.7−)		1998 03 29	704	(0.9+ 2.2−)		1998 04 03	809	(1.6+ 2.8+)	
1994 02 13	809	(0.9− 4.3−)		1998 03 29	704	0.0	0.3−				

1994 EY₆ = 2000 GM₁₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	21.03421		(2000.0)	P	Q
<i>n</i>	0.17926876	ω	43.44748	−0.98923562	+0.00379984
<i>a</i>	3.1150592	Ω	136.12083	−0.04057430	−0.96758874
<i>e</i>	0.1493478	<i>i</i>	12.18346	+0.14059378	−0.25250265
<i>P</i>	5.50	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1994 02 08	809	1.8+	0.8+	1994 03 10	010	0.0	0.8−	2000 04 04	699	0.5−	0.1−
1994 02 08	809	0.4+	0.6+	1994 03 10	010	0.2+	0.7−	2000 04 04	704	0.0	0.1−
1994 02 08	809	0.3+	0.4−	1998 12 22	704	0.2−	0.4+	2000 04 04	699	0.7−	0.4−
1994 02 10	809	0.9−	0.9+	1998 12 22	704	1.0−	0.8−	2000 04 04	704	0.4+	0.2+
1994 02 10	809	1.3−	0.9+	1998 12 22	704	0.1−	0.7−	2000 04 12	704	0.9+	1.0+
1994 02 10	809	0.9−	1.2+	1998 12 22	704	0.3+	0.8−	2000 04 12	704	0.2+	0.9−
1994 02 13	809	(1.2+ 3.0+)		1999 01 20	704	0.1+	0.0	2000 04 12	704	0.7−	0.8+
1994 02 13	809	(1.5+ 3.1+)		1999 01 20	704	0.4−	0.3+	2000 04 12	704	0.2+	0.2−
1994 02 13	809	(1.9+ 2.7+)		1999 01 20	704	0.2−	1.4+	2000 04 12	704	0.6−	0.1−
1994 02 16	010	0.7−	1.4−	1999 01 20	704	1.4+	0.5+	2000 04 13	704	0.5+	0.0
1994 02 16	010	0.5−	1.0−	2000 04 04	699	0.3−	0.2−	2000 04 13	704	0.2+	0.2+
1994 03 09	010	(2.2− 2.5−)		2000 04 04	704	0.1+	0.2−	2000 04 13	704	0.1+	0.1+
1994 03 09	010	(2.3− 2.2−)		2000 04 04	704	0.6+	0.0	2000 04 13	704	1.0+	0.3+
1994 03 09	010	(1.8− 3.0−)		2000 04 04	699	1.0−	0.2−	2000 04 13	704	0.3−	0.4+
1994 03 10	010	1.4+	0.7−	2000 04 04	704	0.0	0.1+				

1994 PH₅ = 2000 DP₃₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	299.71284		(2000.0)	P	Q
<i>n</i>	0.27784348	ω	261.28317	−0.71491124	+0.69654787
<i>a</i>	2.3259618	Ω	322.83015	−0.59523851	−0.65206502
<i>e</i>	0.0711460	<i>i</i>	5.79619	−0.36686922	−0.29938650
<i>P</i>	3.55	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	1.2+	0.9+	2000 02 12	704	(2.5+ 0.6−)	2000 03 09	704	0.7−	0.1+	
1994 08 10	809	0.3+	0.9+	2000 02 12	704	0.9+ 0.2−	2000 03 09	704	0.4−	0.3+	
1994 08 10	809	0.8−	0.7+	2000 02 12	704	1.6+ 0.3+	2000 03 09	704	0.4−	0.4+	
1994 08 11	809	0.6−	1.0−	2000 02 12	704	0.5− 0.6−	2000 03 11	704	0.4−	0.1−	
1994 08 11	809	0.0	0.2−	2000 02 29	704	0.5+ 0.2+	2000 03 11	704	0.4−	0.3−	
1994 08 11	809	1.0+	0.2+	2000 02 29	704	0.5+ 0.1+	2000 03 11	704	0.0	0.0	
1994 09 03	809	0.4+	0.7+	2000 02 29	704	1.0+ 0.2+	2000 03 11	704	0.3−	0.3+	
1994 09 03	809	(2.3− 0.8+)		2000 02 29	704	0.1− 0.2+	2000 03 11	699	0.2−	0.0	
1994 09 03	809	0.9−	1.2+	2000 02 29	704	0.4+ 0.4+	2000 03 11	704	0.3−	0.2+	
1994 09 04	809	1.3−	0.8+	2000 03 03	704	0.5+ 0.0	2000 03 11	699	0.8−	0.1−	
1994 09 04	809	1.3−	0.7+	2000 03 03	704	0.5+ 0.1−	2000 03 11	699	0.3−	0.3+	
1994 09 04	809	1.3−	1.7+	2000 03 03	704	0.2+ 0.5−	2000 03 11	699	0.8−	0.7−	
2000 02 02	704	0.4+	0.9+	2000 03 03	704	0.5− 0.7−	2000 04 04	699	1.9+	0.3+	
2000 02 02	704	0.5−	1.4+	2000 03 03	704	0.4+ 0.1−	2000 04 04	699	0.8+	0.1+	
2000 02 02	704	0.7+	1.6+	2000 03 09	704	0.9−	1.3+	2000 04 04	699	0.8+	0.5+
2000 02 02	704	0.1−	1.5+	2000 03 09	704	0.6−	0.4−	2000 04 04	699	0.8+	0.3+

1994 PY₉ = 2000 GA₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	223.15323	(2000.0)	P		Q	
<i>n</i>	0.29375777	ω	122.21757	+0.96741303	+0.25305682	
<i>a</i>	2.2411786	Ω	223.12567	-0.23634620	+0.89027150	
<i>e</i>	0.1753678	<i>i</i>	0.72236	-0.09084327	+0.37865408	
<i>P</i>	3.36	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 5
Residuals in seconds of arc						
1994 08 10	809	0.9+	0.4+	1994 09 03	809	0.4- 0.4- 2000 04 05 704 0.4+ 0.9-
1994 08 10	809	0.1-	0.1+	1994 09 03	809	0.2+ 0.1- 2000 04 05 704 0.1- 0.6+
1994 08 10	809	0.4+	0.3+	1994 09 03	809	0.4+ 0.3- 2000 04 06 704 1.0+ 0.0
1994 08 11	809	0.0	0.1+	1994 09 04	809	0.1- 0.0 2000 04 06 704 0.4- 0.2-
1994 08 11	809	0.8-	1.2-	1994 09 04	809	0.3- 0.8+ 2000 04 06 704 0.0 0.2+
1994 08 11	809	1.4+	0.3+	1994 09 04	809	0.2+ 0.3+ 2000 04 06 704 0.5- 0.5+
1994 08 11	675	1.8-	0.3-	2000 04 05	704	0.1- 0.1-
1994 08 11	675	(3.0-	0.8-)	2000 04 05	704	0.3- 0.0

1994 PO₁₃ = 2000 BR₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	110.35703	(2000.0)	P		Q	
<i>n</i>	0.24622016	ω	83.09093	+0.98083585	-0.19117166	
<i>a</i>	2.5210820	Ω	287.92501	+0.15948648	+0.89865863	
<i>e</i>	0.1651407	<i>i</i>	2.26535	+0.11191554	+0.39479877	
<i>P</i>	4.00	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i> 5
Residuals in seconds of arc						
1994 08 10	809	1.1+	0.4+	1994 09 04	809	1.3+ 0.5+ 2000 01 26 691 0.8+ 0.2+
1994 08 10	809	0.3+	0.4+	1994 09 04	809	1.5+ 0.9+ 2000 01 26 691 0.8+ 0.2+
1994 08 10	809	1.7-	0.2-	1994 09 04	809	0.6+ 1.9+ 2000 01 26 691 0.6+ 0.1+
1994 08 11	809	0.4-	0.6+	1994 09 05	809	(1.8- 2.1-) 2000 02 01 691 0.7- 0.7-
1994 08 11	809	0.5-	0.0	1994 09 05	809	1.4- 1.7- 2000 02 01 691 0.4- 0.5-
1994 08 11	809	0.4-	0.8+	1994 09 05	809	1.5- 1.3- 2000 02 01 691 0.9- 0.3-
1994 09 03	809	1.6+	1.0+	1994 09 06	809	0.4+ 0.7- 2000 02 03 704 0.4+ 0.0
1994 09 03	809	1.2+	0.7+	1994 09 06	809	1.9- 1.7- 2000 02 03 704 0.1- 0.2+
1994 09 03	809	(2.6+	0.7+)	1994 09 06	809	0.6- 0.9- 2000 02 03 704 0.2- 1.8+

1994 PW₁₃ = 2000 FW₂₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	61.24807	(2000.0)	P		Q	
<i>n</i>	0.27616293	ω	145.89680	-0.42968268	-0.90105814	
<i>a</i>	2.3353884	Ω	329.42902	+0.80050456	-0.34993726	
<i>e</i>	0.0601486	<i>i</i>	6.64807	+0.41781007	-0.25619943	
<i>P</i>	3.57	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 5
Residuals in seconds of arc						
1994 08 10	809	0.5-	0.0	2000 03 05	608	0.5- 0.5+ 2000 04 06 704 0.9+ 0.2+
1994 08 10	809	0.1+	0.5-	2000 03 05	608	0.3- 0.1+ 2000 04 06 704 0.2- 0.3+
1994 08 10	809	0.8-	0.2-	2000 03 05	608	0.5- 0.3+ 2000 04 06 699 0.6+ 0.7-
1994 08 11	809	0.1-	0.8-	2000 03 27	699	0.8- 0.5+ 2000 04 06 704 0.3- 1.2+
1994 08 11	809	0.2-	0.4-	2000 03 27	699	1.0- 0.6+ 2000 04 06 699 0.9+ 0.4-
1994 08 11	809	0.4-	0.0	2000 03 27	699	0.9- 0.0 2000 04 06 699 0.9+ 0.4-
1994 09 03	809	(3.6+	1.0-)	2000 03 27	699	1.5- 0.5+ 2000 04 06 699 0.9+ 0.2-
1994 09 03	809	(2.8+	1.0-)	2000 04 02	699	0.3- 0.1- 2000 04 07 704 1.2+ 0.0
1994 09 03	809	(3.7+	0.6-)	2000 04 02	699	0.2- 0.0 2000 04 07 704 0.5+ 0.3-
1994 09 04	809	0.9+	1.1+	2000 04 02	699	0.8- 0.1- 2000 04 07 704 0.4+ 0.6-
1994 09 04	809	1.3+	0.4+	2000 04 02	699	0.4- 0.2+ 2000 04 07 704 0.7+ 0.7-
1994 09 04	809	0.3-	0.4+	2000 04 06	704	0.0 0.2+ 2000 04 07 704 0.8+ 0.8-

1994 PZ₁₆ = 1994 RE₁₈ = 2000 DZ₆₆Id. S. Nakano (d, *MPC* 27543), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	241.70404	(2000.0)	P		Q	
<i>n</i>	0.28570735	ω	130.26749	+0.45608640	+0.88959222	
<i>a</i>	2.2830834	Ω	166.80148	-0.84583074	+0.44195046	
<i>e</i>	0.1949879	<i>i</i>	6.21433	-0.27668673	+0.11534934	
<i>P</i>	3.45	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i> 5
Residuals in seconds of arc						
1994 08 10	809	(2.8-	2.2-)	1994 09 03	809	1.1- 0.3- 2000 03 03 704 0.3- 0.7+
1994 08 10	809	(2.0-	2.7-)	1994 09 04	809	1.1+ 1.2+ 2000 03 03 704 0.1- 0.6+
1994 08 10	809	(2.5-	2.2-)	1994 09 04	809	1.1+ 0.2+ 2000 03 03 704 0.5- 0.8+
1994 08 11	809	0.0	0.6-	1994 09 04	809	0.2- 1.0+ 2000 03 03 704 0.9- 0.8+
1994 08 11	809	0.1-	1.2-	2000 02 27	691	0.0 0.8- 2000 03 04 704 0.6- 0.2-
1994 08 11	809	0.5-	1.1-	2000 02 27	691	0.0 0.7- 2000 03 04 704 0.2- 0.5-
1994 08 12	809	0.2+	1.1+	2000 02 27	691	0.1- 0.6- 2000 03 04 704 1.0- 0.1-
1994 08 12	809	0.3-	0.9+	2000 02 29	704	0.3+ 0.2+ 2000 03 04 704 0.1- 1.1-
1994 08 12	809	0.5-	0.6+	2000 02 29	704	1.9+ 0.4+ 2000 03 04 704 0.1- 1.0-
1994 08 13	809	1.3+	0.9+	2000 02 29	704	0.5+ 0.2- 2000 03 11 704 1.2+ 0.9-
1994 08 13	809	0.0	0.3-	2000 03 03	561	0.7+ 0.2+ 2000 03 11 704 0.5- 1.4+
1994 08 13	809	0.2-	0.3-	2000 03 03	561	0.0 0.5+ 2000 03 11 704 0.2+ 0.4+
1994 09 03	809	0.2-	0.9-	2000 03 03	561	0.2+ 0.4- 2000 03 11 704 (0.6- 2.1+)
1994 09 03	809	0.8-	0.7-	2000 03 03	704	0.5- 1.2+

1994 PZ₁₈ = 2000 FT₂

Id. G. V. Williams, E. Bowell (1998 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	330.74593	(2000.0)	P		Q	
<i>n</i>	0.23914861	ω	161.93161	-0.73198398	-0.66669702	
<i>a</i>	2.5705387	Ω	334.51061	+0.57791493	-0.49841193	
<i>e</i>	0.1191619	<i>i</i>	19.04256	+0.36085147	-0.55416661	
<i>P</i>	4.12	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 2
Residuals in seconds of arc						
1994 08 12	809	(0.5-	3.3+)	1998 08 17	704	(3.1- 0.7+)
1994 08 12	809	(0.2+	3.2+)	1998 08 17	704	0.8- 1.6- 1999 12 17 704 0.4+ 0.1+
1994 08 12	809	(0.7-	2.8+)	1998 08 17	704	0.8- 1.7+ 1999 12 17 704 0.3- 0.2-
1994 08 13	809	0.9+	1.4+	1998 08 17	704	(3.7- 0.2-) 1999 12 17 704 0.2- 0.1-
1994 08 13	809	(1.0+	2.5+)	1998 08 23	699	0.7- 0.9+ 1999 12 17 704 1.1- 0.2-
1994 08 13	809	(0.5-	2.9+)	1998 08 23	699	0.1+ 0.3+ 2000 03 27 704 0.6- 0.2+
1994 09 05	809	0.6+	0.3-	1998 08 23	699	0.2+ 0.8+ 2000 03 27 704 0.2+ 0.8+
1994 09 05	809	0.3+	0.4-	1999 10 31	704	0.5- 0.1+ 2000 03 27 704 0.3+ 0.2-
1994 09 05	809	0.9-	0.6-	1999 10 31	704	0.9+ 0.3- 2000 03 27 704 0.7- 0.5+
1994 09 06	809	0.9+	0.2-	1999 10 31	704	0.9+ 0.0 2000 03 28 704 0.0 0.3-
1994 09 06	809	0.0	1.1-	1999 10 31	704	0.3+ 0.0 2000 03 28 704 0.2+ 0.6-
1994 09 06	809	0.1+	0.8-	1999 10 31	704	0.4+ 0.2+ 2000 03 28 704 0.2+ 0.4-

1994 PT₂₁ = 2000 GC₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.15062	(2000.0)	P		Q	
<i>n</i>	0.29400933	ω	252.07028	+0.79802582	+0.60231456	
<i>a</i>	2.2399001	Ω	70.88952	-0.54488412	+0.73486492	
<i>e</i>	0.1685945	<i>i</i>	1.16955	-0.25740257	+0.31175425	
<i>P</i>	3.35	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i> 5
Residuals in seconds of arc						
1994 08 12	809	0.8-	1.8-	1994 09 06	809	0.5- 0.2+ 2000 04 06 704 0.7+ 0.2+
1994 08 12	809	0.4-	1.5-	1994 09 06	809	0.9- 0.8+ 2000 04 06 704 0.2+ 0.1+
1994 08 12	809	1.0-	1.5-	2000 04 05	704	0.9- 0.1+ 2000 04 10 704 0.7+ 0.4-
1994 08 13	809	1.4+	0.1+	2000 04 05	704	0.1- 0.4- 2000 04 10 704 1.1+ 0.1-
1994 08 13	809	0.1+	0.1+	2000 04 05	704	0.1- 0.3+ 2000 04 10 704 0.5+ 0.0
1994 08 13	809	0.1+	0.4+	2000 04 05	704	0.5- 0.7+ 2000 04 10 704 0.7+ 0.5-
1994 09 05	809	0.8+	0.8+	2000 04 05	704	0.3+ 0.7+ 2000 04 13 691 0.3- 0.3-
1994 09 05	809	0.8-	0.6+	2000 04 06	704	1.0- 0.7+ 2000 04 13 691 0.3- 0.2-
1994 09 05	809	0.8-	1.2+	2000 04 06	704	0.4- 0.4+ 2000 04 13 691 0.2- 0.2-
1994 09 06	809	0.8-	0.3-	2000 04 06	704	0.0 0.1+

2000 APR. 18

M.P.C. 39957

1994 PG₃₀ = 2000 DK₇₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29054805	ω	110.49328	+0.18297572	+0.98286342		
<i>a</i>	2.2576541	Ω	169.97126	−0.94303918	+0.18189504		
<i>e</i>	0.1771732	<i>i</i>	7.37277	−0.27784347	+0.02989451		
<i>P</i>	3.39	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 12	809	0.2−	0.3−	2000 02 27	703	0.4+	1.0+	2000 03 11	704	0.5−	0.1+
1994 08 12	809	0.0	1.6−	2000 02 27	703	0.7+	0.1+	2000 03 11	704	0.1+	0.3+
1994 08 12	809	1.0−	1.8−	2000 02 29	704	0.5+	1.2−	2000 03 11	704	0.3−	0.4+
1994 08 13	809	0.6+	1.2+	2000 02 29	704	0.2+	1.1−	2000 03 11	704	0.2−	1.3+
1994 08 13	809	0.7+	0.8+	2000 02 29	704	0.5−	0.9+	2000 03 11	704	0.9+	1.4−
1994 08 13	809	0.6+	1.2+	2000 03 03	691	0.2−	0.0	2000 03 11	704	0.3−	0.5+
1994 09 03	809	0.2+	1.0−	2000 03 03	691	0.3−	0.1+	2000 03 11	704	0.5−	0.5+
1994 09 03	809	0.0	0.5+	2000 03 03	704	0.9+	0.1−	2000 03 11	704	0.2−	1.4−
1994 09 03	809	0.7+	0.6−	2000 03 03	691	0.4−	0.1+	2000 03 11	704	0.4+	0.8−
1994 09 04	809	1.2−	0.9+	2000 03 03	704	1.0+	0.6+	2000 03 12	691	0.5−	0.1+
1994 09 04	809	0.5+	1.6+	2000 03 03	704	0.7+	0.4+	2000 03 12	691	0.8−	0.2+
1994 09 04	809	1.2−	0.3+	2000 03 03	704	0.9+	1.1+	2000 03 12	691	0.5−	0.1−
2000 02 27	703	0.2−	0.3−	2000 03 03	704	0.7+	0.3+				
2000 02 27	703	0.5−	0.1+	2000 03 11	704	0.9−	0.0				

1994 PM₃₁ = 2000 CH₆₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28315096	ω	78.73331	−0.00824227	+0.99974354		
<i>a</i>	2.2968045	Ω	190.86099	−0.95557540	−0.01408980		
<i>e</i>	0.0989718	<i>i</i>	6.42741	−0.29463151	+0.01772964		
<i>P</i>	3.48	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 12	809	(2.1+	1.9+)	2000 02 02	704	0.4−	0.2+	2000 03 08	704	0.6−	0.8−
1994 08 12	809	1.3+	1.4+	2000 02 02	704	0.4+	0.4+	2000 03 08	704	0.2+	0.3+
1994 08 12	809	0.4+	1.5+	2000 02 02	704	0.3+	1.3+	2000 03 08	704	0.6+	0.1−
1994 08 13	809	1.4+	0.0	2000 02 02	704	(0.7−	2.5+)	2000 03 09	704	0.3−	0.3+
1994 08 13	809	1.1+	0.1+	2000 02 08	704	0.3−	0.3+	2000 03 09	704	0.5−	0.2+
1994 08 13	809	0.9+	0.8−	2000 02 08	704	0.7+	1.0+	2000 03 09	704	0.0	0.2+
1994 09 05	809	0.2−	1.6+	2000 02 08	704	0.2−	0.3+	2000 03 09	704	0.2+	0.4+
1994 09 05	809	0.4−	1.0+	2000 02 08	704	0.1−	1.0−	2000 03 09	704	0.8−	0.6+
1994 09 05	809	1.2−	0.4+	2000 02 27	703	0.6−	0.4+	2000 04 05	704	1.9+	0.7−
1994 09 06	809	0.8−	0.7−	2000 02 27	703	0.4−	0.1+	2000 04 05	704	1.7+	0.9−
1994 09 06	809	1.7−	1.5−	2000 02 27	703	0.4−	0.0	2000 04 05	704	(2.5+	1.2−)
1994 09 06	809	1.2−	0.8−	2000 02 27	703	0.7−	0.2−	2000 04 05	704	(2.6+	1.4−)

1994 PS₃₆ = 2000 GG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27884413	ω	171.96359	+0.99994229	−0.00691468		
<i>a</i>	2.3203939	Ω	188.44566	+0.00363913	+0.93809916		
<i>e</i>	0.1692991	<i>i</i>	3.20922	+0.01010811	+0.34629778		
<i>P</i>	3.53	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	(2.5−	3.0−)	1994 09 04	809	0.1−	0.5+	2000 04 05	704	0.0	0.1−
1994 08 10	809	(2.9−	2.0−)	1994 09 04	809	1.1−	0.4+	2000 04 05	704	0.2+	0.5+
1994 08 10	809	(3.0−	3.3−)	1994 09 04	809	0.2−	0.5+	2000 04 05	704	0.0	0.3+
1994 08 11	809	0.6−	0.7−	1994 09 07	675	(3.8−	3.6−)	2000 04 05	704	1.1−	0.3+
1994 08 11	809	0.2+	1.1−	1994 09 07	675	(1.2−	2.5−)	2000 04 05	704	0.8+	0.3+
1994 08 11	809	0.6+	1.8−	2000 03 11	704	0.0	0.1−	2000 04 06	704	0.4−	0.1−
1994 09 03	809	(1.0+	2.2+)	2000 03 11	704	0.2+	0.8−	2000 04 06	704	0.6−	0.5−

1994 09 03	809	0.8+	1.2+	2000 03 11	704	1.0+	0.5−	2000 04 06	704	0.6+	0.5+
1994 09 03	809	0.3+	1.6+	2000 03 11	704	0.1+	0.8+	2000 04 06	704	0.3−	0.6+

1994 PM₃₈ = 2000 GO₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30343090	ω	64.83831	+0.23302288	+0.97217822		
<i>a</i>	2.1932906	Ω	218.66113	−0.90541793	+0.20793312		
<i>e</i>	0.1601739	<i>i</i>	2.18990	−0.35485027	+0.10785786		
<i>P</i>	3.25	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 02 16	691	0.5+	1.5+	1994 09 04	809	0.4+	0.5−	2000 04 07	691	0.8+	0.7−
1993 02 16	691	(1.6+	3.4+)	1994 09 04	809	1.1+	0.1+	2000 04 07	699	0.3−	0.1+
1993 02 16	691	(3.7+	5.7+)	1994 09 07	675	(3.5−	0.7−)	2000 04 07	699	0.0	0.0
1994 08 10	809	0.3+	0.1−	1994 09 07	675	(2.0−	4.2−)	2000 04 07	704	0.1−	0.0
1994 08 10	809	0.3+	0.9+	2000 04 05	704	0.8−	0.2+	2000 04 07	691	0.2+	0.7−
1994 08 10	809	0.3−	0.0	2000 04 05	704	0.5−	0.4−	2000 04 07	699	0.3+	0.1+
1994 08 11	809	0.4−	0.3+	2000 04 05	704	0.6−	0.1+	2000 04 07	704	0.6+	0.4−
1994 08 11	809	0.4+	1.4+	2000 04 05	704	0.3−	0.3−	2000 04 07	699	0.5−	0.1+
1994 08 11	809	0.7+	1.1+	2000 04 06	704	0.2+	0.6−	2000 04 07	691	0.7+	0.6−
1994 09 03	809	0.8−	0.3−	2000 04 06	704	0.1+	0.2+	2000 04 07	704	0.1−	1.4+
1994 09 03	809	0.2−	0.5−	2000 04 06	704	0.3−	0.1−	2000 04 07	704	0.4+	0.6+
1994 09 03	809	1.2−	0.8−	2000 04 06	704	0.0	0.1+				
1994 09 04	809	0.7−	0.6−	2000 04 06	704	0.1−	0.6+				

1994 PU₃₈ = 2000 GT₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29660878	ω	25.18572	+0.88728764	+0.46118064		
<i>a</i>	2.2267940	Ω	307.34974	−0.42437281	+0.81146181		
<i>e</i>	0.1398773	<i>i</i>	0.41443	−0.18063323	+0.35894589		
<i>P</i>	3.32	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1994 08 10	809	0.3−	0.2+	1994 09 03	809	0.7+	0.2−	2000 04 06	704	1.5−	0.1−
1994 08 10	809	0.0	1.3+	1994 09 04	809	0.5+	0.0	2000 04 06	704	0.4−	1.8−
1994 08 10	809	0.6−	0.9+	1994 09 04	809	0.6−	0.9−	2000 04 06	704	0.1+	1.2−
1994 08 11	809	0.9+	0.2+	1994 09 04	809	0.1−	0.6−	2000 04 06	704	0.5+	0.5−
1994 08 11	809	0.4−	0.4−	2000 04 05	704	0.1+	0.5+	2000 04 06	704	0.3−	0.1−
1994 08 11	809	0.5−	0.4−	2000 04 05	704	0.9+	1.3+	2000 04 11	691	0.5−	0.3−
1994 09 03	809	0.5+	0.0	2000 04 05	704	0.9+	0.9+	2000 04 11	691	0.7−	0.0
1994 09 03	809	0.1+	0.4−	2000 04 05	704	1.3+	0.6+	2000 04 11	691	0.7−	0.0

1994 RL₁₀ = 2000 AG₂₂₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24955573	ω	334.57742	+0.70774650	+0.70635311		
<i>a</i>	2.4985671	Ω	340.46610	−0.64153525	+0.63509222		
<i>e</i>	0.2504238	<i>i</i>	2.16925	−0.29585033	+0.31260704		
<i>P</i>	3.95	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1994 09 12	691	0.2−	0.1−	1994 09 14	691	0.4+	0.1+	2000 01 08	691	0.3+	0.8−
1994 09 12	691	0.1−	0.3+	1994 09 14	691	0.0	0.2−	2000 01 11	691	0.3−	0.6+
1994 09 12	691	0.2+	0.2−	2000 01 08	691	0.8+	0.5−	2000 01 11	691	0.6−	0.5+
1994 09 14	691	0.4−	0.1+	2000 01 08	691	0.5+	0.4−	2000 01 11	691	0.8−	0.6+

1994 SO₉ = 2000 EB₄₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26387762	ω	147.39514	-0.99146452	-0.12853345		
<i>a</i>	2.4073229	Ω	25.24725	+0.10592914	-0.89184693		
<i>e</i>	0.1311531	<i>i</i>	2.93595	+0.07600745	-0.43369138		
<i>P</i>	3.74	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1994 09 28	691	0.2-	0.6+	2000 03 10	704	0.2-	0.1-
1994 09 28	691	0.3-	0.6+	2000 03 10	704	0.0	0.1+
1994 09 28	691	0.3-	0.4+	2000 03 10	704	0.7-	0.0
1994 10 11	691	0.3+	1.0+	2000 03 10	704	0.2-	0.3+
1994 10 11	691	0.3+	0.5+	2000 03 10	704	1.9-	1.1+
1994 10 11	691	0.1+	0.9+	2000 03 11	704	0.4+	0.1-
1994 10 12	691	0.6-	0.9-	2000 03 11	704	1.2+	1.3+
1994 10 12	691	0.2-	0.2-	2000 03 11	704	0.2+	0.1-
1994 10 12	691	0.3-	0.8-	2000 03 11	704	0.4-	0.4+
2000 02 27	703	0.4+	0.4-	2000 03 11	704	0.2-	1.4+
2000 02 27	703	0.7-	0.1-	2000 03 14	703	0.0	0.2+
2000 02 27	703	0.3-	0.4-	2000 03 14	703	0.5-	0.8-
2000 02 27	703	0.6+	0.3-	2000 03 14	703	0.5+	0.3-
2000 03 08	704	0.5+	0.1-	2000 03 14	703	0.6-	0.5-
2000 03 08	704	1.0+	0.2-	2000 04 04	704	0.4-	1.9-
2000 03 08	704	0.5+	0.1-	2000 04 04	704	0.0	1.0-
2000 03 08	704	0.3+	0.1+	2000 04 04	704	0.1+	1.3-
2000 03 08	704	0.3+	0.1-	2000 04 05	704	0.2-	0.0

1994 SF₁₀ = 1998 XR₃₂ = 2000 FH₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26463999	ω	355.12589	+0.83455899	-0.55051467		
<i>a</i>	2.4026973	Ω	38.30099	+0.50660115	+0.75181734		
<i>e</i>	0.1919800	<i>i</i>	1.95024	+0.21648687	+0.36291086		
<i>P</i>	3.72	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1994 09 28	691	0.2-	0.0	1998 12 17	704	0.5+	1.3+
1994 09 28	691	0.2-	0.0	1998 12 17	704	0.2+	0.9+
1994 09 28	691	0.4-	0.1-	1998 12 17	704	0.5+	0.4+
1994 10 04	691	0.2+	0.3+	1998 12 17	704	0.7-	0.7+
1994 10 04	691	0.1+	0.1+	1998 12 17	704	0.6-	0.5-
1994 10 11	691	0.2-	0.4+	2000 03 25	691	0.3+	0.0
1994 10 11	691	0.3+	0.1+	2000 03 25	691	0.2+	0.4-
1994 10 11	691	0.1+	0.1+	2000 03 25	691	0.4+	0.0
1998 12 14	704	1.3-	0.5+	2000 03 27	691	0.4-	0.0
1998 12 14	704	0.0	0.5-	2000 03 27	691	0.4-	0.1-
1998 12 14	704	0.8+	0.7-	2000 03 27	691	0.3-	0.2+
1998 12 14	704	0.5+	1.9-	2000 04 05	704	0.2+	0.1+

1994 SN₁₀ = 1997 EY₅₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.14746855	ω	255.43425	+0.13199714	-0.99031393		
<i>a</i>	3.5481592	Ω	187.39562	+0.98836826	+0.13479994		
<i>e</i>	0.2717949	<i>i</i>	19.54860	+0.07553105	-0.03327595		
<i>P</i>	6.68	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1994 09 29	691	0.2+	0.3+	1994 10 10	691	0.4+	0.0
1994 09 29	691	0.2+	0.1-	1994 10 10	691	0.3-	0.3-
1994 09 29	691	0.1-	0.2-	1997 03 10	809	0.8-	0.1+
1994 10 10	691	0.4-	0.2+	1997 03 10	809	1.0-	0.1+
				1997 03 11	809	0.9+	0.4+

1994 TY = 2000 EN₁₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23798587	ω	29.40362	+0.64847553	-0.75688677		
<i>a</i>	2.5789045	Ω	20.52146	+0.64530769	+0.48995982		
<i>e</i>	0.2848697	<i>i</i>	13.40184	+0.40380374	+0.43250642		
<i>P</i>	4.14	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1994 10 02	400	1.5+	0.2-	1994 10 25	400	1.0-	0.3-
1994 10 02	400	0.9+	0.2-	1994 10 25	400	1.7-	0.8+
1994 10 03	400	(2.7-	1.6+)	1994 10 29	675	0.3-	0.8-
1994 10 08	675	0.6+	0.8+	1994 10 29	675	1.5+	0.5-
1994 10 08	675	(6.7-	1.4+)	1994 11 01	675	(3.3+	1.6+)
1994 10 10	397	0.4-	0.0	1994 11 01	675	1.0+	0.5+
1994 10 10	397	0.6+	0.3+	2000 02 04	704	0.2+	1.0+
1994 10 11	675	(2.2-	1.2+)	2000 02 04	704	0.3+	0.7+
1994 10 11	675	1.9-	0.5+	2000 02 04	704	0.6+	0.4-
1994 10 11	397	0.4-	0.5+	2000 03 11	699	0.5-	0.2-
1994 10 11	397	0.1-	1.5-	2000 03 11	699	0.5-	0.5-

1994 TD₅ = 2000 DB₅₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25920239	ω	153.42235	+0.87090046	+0.49144721		
<i>a</i>	2.4361838	Ω	177.13482	-0.46234928	+0.82168665		
<i>e</i>	0.0140729	<i>i</i>	3.97718	-0.16662992	+0.28863590		
<i>P</i>	3.80	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1994 10 02	691	0.0	0.5-	1994 10 11	691	0.2-	0.0
1994 10 02	691	0.2-	0.4-	2000 02 29	704	0.2-	0.5-
1994 10 02	691	0.1-	0.6-	2000 02 29	704	0.3-	0.3-
1994 10 06	691	0.7+	0.2-	2000 02 29	704	0.6-	1.2-
1994 10 06	691	0.2-	2.0+	2000 02 29	704	0.4+	0.4+
1994 10 06	691	0.1-	0.1-	2000 03 03	704	0.4+	0.6+
1994 10 11	691	0.1+	0.1-	2000 03 03	704	0.3+	0.3+
1994 10 11	691	0.1+	0.2-	2000 03 03	704	0.4+	0.4+

1994 TE₁₂ = 1994 UV₁₂ = 2000 GOId. S. Nakano (d, *MPC* 27543), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27146150	ω	329.53229	+0.99236481	+0.12047087		
<i>a</i>	2.3622755	Ω	23.59191	-0.09558502	+0.88665442		
<i>e</i>	0.1482074	<i>i</i>	3.78734	-0.07794607	+0.44646468		
<i>P</i>	3.63	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1994 10 10	691	0.4+	0.3-	1994 11 01	033	0.4-	0.1+
1994 10 10	691	0.3-	0.3+	2000 04 01	691	0.3+	0.0
1994 10 10	691	0.2-	0.0	2000 04 01	691	0.3+	0.2+
1994 10 12	691	0.3-	0.6-	2000 04 01	691	0.2+	0.3+
1994 10 12	691	0.1-	0.3+	2000 04 03	691	0.3-	0.3+
1994 10 12	691	0.1+	0.3+	2000 04 03	691	0.4-	0.1+
1994 10 28	033	0.7+	0.1-	2000 04 03	691	1.0-	0.1-
1994 10 28	033	0.4+	0.5+	2000 04 05	704	0.7+	0.2+
1994 11 01	033	0.4-	0.5-	2000 04 05	704	1.9+	0.1-

2000 APR. 18

M.P.C. 39959

1994 VQ₂ = 1992 EP₂₁ = 2000 GS₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	187.23400	ω	345.71765	+0.96145022	-0.27352550						
<i>a</i>	2.3887649	Ω	30.20230	+0.25747632	+0.85944457						
<i>e</i>	0.1767631	<i>i</i>	3.21766	+0.09653714	+0.43190141						
<i>P</i>	3.69	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1992 03 04	809	0.1-	0.3-	1994 11 10	411	0.1+	0.9+	2000 04 06	704	0.2+	0.5-
1994 11 03	411	1.1+	0.8-	1994 11 30	411	0.1-	0.1-	2000 04 06	704	0.0	0.1+
1994 11 03	411	0.6-	0.5-	1994 11 30	411	0.3+	0.8-	2000 04 06	704	0.7+	0.4-
1994 11 08	411	0.7-	0.0	2000 04 05	704	0.1+	0.0	2000 04 06	704	0.6+	0.1-
1994 11 08	411	0.9+	0.0	2000 04 05	704	0.7+	0.7+	2000 04 06	704	0.1-	0.8+
1994 11 09	411	0.6-	0.3-	2000 04 05	704	0.1-	0.4-	2000 04 11	691	0.4-	0.2-
1994 11 09	411	0.6-	1.3+	2000 04 05	704	0.7-	0.6+	2000 04 11	691	0.2-	0.3-
1994 11 10	411	0.0	0.6+	2000 04 05	704	0.4-	0.7+	2000 04 11	691	0.0	0.2-

1994 WL

Id. E. Bowell (1989, 1998, 2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	247.96981	ω	267.96540	+0.81470799	+0.56937299						
<i>a</i>	2.3601376	Ω	57.31027	-0.46650515	+0.75607420						
<i>e</i>	0.1363059	<i>i</i>	7.49933	-0.34441811	+0.32274788						
<i>P</i>	3.63	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
1994 11 25	411	0.1+	0.3-	1998 11 24	699	0.3-	0.2+	2000 04 07	704	0.4-	0.7+
1994 11 25	411	0.5-	0.1+	1998 11 24	699	0.0	1.0-	2000 04 07	704	0.1-	0.9+
1994 11 26	411	0.0	0.4+	1998 11 24	699	0.0	0.8-	2000 04 07	704	0.2-	0.5+
1994 11 26	411	0.4+	0.1-	2000 02 10	704	0.8-	0.9-	2000 04 08	704	0.2-	0.6+
1994 12 03	098	0.3+	1.7+	2000 02 10	704	0.3-	0.1-	2000 04 08	704	0.4-	0.1+
1994 12 03	098	1.4-	0.6-	2000 02 10	704	0.6+	0.1+	2000 04 08	704	0.8-	0.1-
1994 12 04	411	0.3+	0.0	2000 02 10	704	0.5+	0.5+	2000 04 10	608	1.0+	0.7-
1994 12 04	411	0.1-	0.3+	2000 02 10	704	0.3-	0.5-	2000 04 10	608	1.0+	1.0-
1994 12 22	411	0.1-	0.5+	2000 04 07	704	0.0	0.4+	2000 04 10	608	0.9+	0.5-
1994 12 22	411	0.3+	0.1+	2000 04 07	704	0.1-	0.9+				

1994 WN₁ = 1975 TK₅ = 1977 DH₈ = 1986 RV₇ = 2000 ET₄₀

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	215.82741	ω	265.44573	+0.91643207	+0.39798524						
<i>a</i>	2.4175949	Ω	71.09736	-0.34733738	+0.84308493						
<i>e</i>	0.1913293	<i>i</i>	2.54155	-0.19876872	+0.36168432						
<i>P</i>	3.76	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1				
Residuals in seconds of arc											
1975 10 14	095	1.7+	2.5-	2000 03 08	704	0.9-	0.7-	2000 04 04	704	0.4+	0.1-
1977 02 19	381	0.5-	0.6+	2000 03 08	704	0.5-	0.7-	2000 04 06	704	0.2-	0.2+
1977 02 19	381	0.4-	0.0	2000 03 08	704	0.4+	1.7-	2000 04 06	704	1.0+	0.2+
1986 09 07	095	0.1+	2.2-	2000 03 10	704	0.1+	0.2+	2000 04 06	704	1.0-	0.4-
1986 09 12	095	1.0+	1.6-	2000 03 10	704	0.0	0.1-	2000 04 06	704	1.2+	0.4+
1994 11 27	411	1.0-	0.4-	2000 03 10	704	0.6-	1.0-	2000 04 06	704	0.7+	0.0
1994 11 27	411	0.2+	0.3-	2000 03 10	704	0.8-	0.5-	2000 04 07	699	0.7+	0.4-
1994 11 28	411	0.4+	0.2+	2000 03 10	704	0.8-	0.0	2000 04 07	699	0.3-	0.2-
1994 11 28	411	0.4-	0.3-	2000 03 11	704	0.1-	0.1+	2000 04 07	699	0.2-	0.2-
1994 12 04	098	1.2-	0.1-	2000 03 11	704	0.3-	0.1-	2000 04 07	699	0.6-	0.5-
1994 12 04	098	(2.5+ 0.9+)		2000 03 11	704	0.3-	0.2-	2000 04 08	704	0.5-	0.0
1994 12 06	411	0.9+	0.6+	2000 03 29	704	0.5+	0.4-	2000 04 08	704	0.5+	0.4+
1994 12 06	411	1.2+	0.1+	2000 03 29	704	0.3+	0.4-	2000 04 08	704	0.4+	0.1-
1999 01 19	704	0.2+	0.8+	2000 03 29	704	0.2+	0.3-	2000 04 08	704	0.1-	0.6-
1999 01 19	704	0.1-	0.3+	2000 03 29	704	0.1-	0.0	2000 04 08	704	0.0	0.3-
1999 01 19	704	0.1+	0.8-	2000 03 29	704	0.2+	0.4+	2000 04 10	704	0.4-	0.1+

1999 01 19	704	0.8-	0.2-	2000 04 04	704	0.4-	0.0	2000 04 10	704	0.1-	0.0
1999 01 19	704	(5.6-	0.2-)	2000 04 04	704	0.2-	0.2-	2000 04 10	704	0.3-	0.2-
2000 03 08	704	0.9+	0.5-	2000 04 04	704	0.5-	0.8-	2000 04 10	704	0.8-	0.5-
2000 03 08	704	0.3-	0.7-	2000 04 04	704	0.3+	0.3+	2000 04 10	704	0.2-	1.1+

1994 WX₁

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P			Q		
<i>n</i>	51.25686	ω	228.27005	-0.59538293	-0.80208953						
<i>a</i>	2.5257853	Ω	258.32894	+0.75054891	-0.53455397						
<i>e</i>	0.0894067	<i>i</i>	2.72738	+0.28669759	-0.26627888						
<i>P</i>	4.01	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1				
Residuals in seconds of arc											
1994 11 30	595	0.2+	0.7+	1998 11 18	704	0.5-	1.1+	2000 04 02	699	0.3-	0.2+
1994 11 30	595	0.5+	0.4+	1998 11 18	704	0.8+	0.7-	2000 04 02	699	0.3-	0.2-
1994 11 30	595	0.5+	0.2+	1998 11 18	704	1.1+	1.3-	2000 04 02	699	0.0	0.1-
1994 12 01	595	0.1+	0.4+	1998 11 18	704	0.5+	0.5-	2000 04 03	699	0.5-	0.4-
1994 12 01	595	0.1-	0.6+	1999 02 13	691	0.6-	0.2-	2000 04 03	699	0.9+	0.7-
1994 12 02	595	0.2-	0.5-	1999 02 13	691	0.4-	0.5-	2000 04 03	699	0.3-	0.2+
1994 12 02	595	0.2-	0.4+	1999 02 13	691	0.6-	0.5-	2000 04 03	699	0.3-	0.0
1994 12 04	595	0.1+	0.3+	1999 03 10	691	0.8+	0.1-	2000 04 07	704	0.3-	0.9-
1994 12 04	595	0.0	0.1+	1999 03 10	691	0.8+	0.8-	2000 04 07	704	0.2+	0.1-
1994 12 11	595	0.5-	0.1+	1999 03 10	691	0.8+	0.6-	2000 04 07	704	0.2+	0.1-
1994 12 11	595	0.5-	0.0	2000 03 09	704	0.4+	0.3-	2000 04 07	704	0.3+	0.2-
1995 04 01	691	0.3-	0.4+	2000 03 09	704	0.4+	1.2+	2000 04 07	704	0.6+	0.1+
1995 04 01	691	0.1-	0.3+	2000 03 09	704	0.9-	0.1-	2000 04 08	704	0.2-	0.6-
1995 04 01	691	0.4-	0.2+	2000 03 30	704	0.5-	0.7+	2000 04 08	704	0.2-	0.7-
1998 11 10	699	0.1-	0.2+	2000 03 30	704	0.3+	1.8+	2000 04 08	704	0.2-	0.1+
1998 11 10	699	0.0	0.3+	2000 03 30	704	0.4+	0.7+	2000 04 08	704	0.3+	0.1-
1998 11 10	699	1.5-	0.4-	2000 04 02	699	0.1+	0.4-	2000 04 08	704	0.0	0.3+

1994 YY₃ = 2000 EY₄₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	171.79479		(2000.0)		P		Q				
n	0.23252437	ω	67.80933		+0.98578428		-0.16733461				
a	2.6191300	Ω	301.82060		+0.14685690		+0.90185208				
e	0.0498069	i	1.01932		+0.08162360		+0.39832394				
P	4.24	H	14.7	G	0.15	U	5				
Residuals in seconds of arc											
1994 12 31	691	0.3+	0.1+	2000 03 09	704	0.8+	0.1-	2000 04 05	704	0.0	0.4-
1994 12 31	691	0.2+	0.2+	2000 03 09	704	0.5+	0.0	2000 04 05	704	0.0	0.5-
1995 01 07	691	0.2+	0.1+	2000 03 09	704	0.6-	0.1+	2000 04 05	704	0.2+	0.7-
1995 01 07	691	0.0	0.2+	2000 03 09	704	0.4-	0.3+	2000 04 05	704	0.1+	0.3-
1995 01 07	691	0.1+	0.4-	2000 03 10	704	0.6+	0.6+	2000 04 05	704	0.1+	0.5-
1995 01 08	691	0.3-	0.2-	2000 03 10	704	0.0	0.7+	2000 04 06	704	0.3-	0.1+
1995 01 08	691	0.2-	0.2-	2000 03 10	704	0.4+	0.6-	2000 04 06	704	0.3+	0.6+
1995 01 08	691	0.3-	0.1-	2000 03 10	704	0.1-	0.2+	2000 04 06	704	0.6-	0.4+
1995 01 09	691	0.8+	0.3+	2000 03 11	704	0.4-	0.1+	2000 04 06	704	0.2+	0.5+
1995 01 09	691	0.5-	0.1-	2000 03 11	704	0.7-	0.1-				
1995 01 09	691	0.4-	0.0	2000 03 11	704	0.3-	0.4-				

Residuals in seconds of arc

1990 10 16	809	1.6−	0.9+	1998 09 21	699	2.0−	0.3+	2000 01 21	704	0.2+	0.5+
1990 10 16	809	0.4−	0.8+	1998 09 21	699	0.5+	0.3−	2000 01 21	704	0.5−	0.2+
1990 10 16	809	1.2−	0.5+	1999 12 03	699	0.4+	0.5+	2000 01 21	704	0.1−	0.5+
1995 01 01	587	0.8+	0.8−	1999 12 03	699	0.7+	0.6+	2000 01 27	704	0.1−	0.4+
1995 01 01	587	0.5+	0.4−	1999 12 03	699	0.7+	0.5+	2000 01 27	704	0.2−	0.0
1995 01 01	587	0.1−	0.5−	1999 12 13	704	0.5−	0.1−	2000 01 27	704	1.7+	0.2−
1995 01 03	587	0.6−	0.2−	1999 12 13	704	0.0	0.3−	2000 01 27	704	0.3−	0.2−
1995 01 03	587	0.2−	0.2−	1999 12 13	704	0.1−	0.4−	2000 02 26	704	0.2+	0.4+
1995 01 04	587	1.2+	0.4+	1999 12 13	704	0.3−	0.3−	2000 02 26	704	0.0	0.2+
1995 01 04	587	1.2+	0.1−	1999 12 13	704	0.3−	0.3−	2000 02 26	704	0.9−	0.1−
1995 01 06	587	1.1+	0.1+	1999 12 30	704	0.2−	0.3−	2000 02 26	704	0.4+	0.7+
1995 01 06	587	0.5+	0.1+	1999 12 30	704	0.2−	0.7−	2000 03 27	704	0.4−	0.3+
1995 01 15	587	0.9+	0.6+	1999 12 30	704	(0.3− 2.2−)		2000 03 27	704	0.2−	0.2+
1995 02 01	587	(2.4+ 2.7−)		1999 12 30	704	1.2−	0.6−	2000 03 27	704	0.6+	0.2+
1995 02 01	587	1.8+	1.8−	1999 12 30	704	0.4−	0.7−				
1998 09 21	699	0.3−	0.1+	2000 01 21	704	0.6+	0.4+				

1995 AB₁ = 2000 EC₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22737813	ω	274.73425	+0.77090688	−0.59421133		
<i>a</i>	2.6585016	Ω	121.90806	+0.63670849	+0.72878424		
<i>e</i>	0.1219146	<i>i</i>	15.67677	−0.01746097	+0.34027404		
<i>P</i>	4.33	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 01 06	411	0.2+	0.6−	2000 01 08	704	0.6+	0.4−	2000 03 29	704	1.0+	1.0−
1995 01 06	411	0.6+	1.5−	2000 01 08	704	0.1−	0.6−	2000 03 29	704	1.2+	1.7−
1995 01 07	411	0.3−	0.2−	2000 03 05	704	0.2+	0.1+	2000 04 04	704	0.1−	0.5+
1995 01 07	411	0.3−	0.7+	2000 03 05	704	0.3+	0.9+	2000 04 04	704	0.2−	0.2−
1995 01 10	411	0.2−	0.4−	2000 03 05	704	0.1+	1.1+	2000 04 04	704	0.2−	0.4−
1995 01 10	411	0.0	0.5+	2000 03 11	703	0.6−	0.9+	2000 04 04	704	0.2−	0.2−
1995 01 20	411	0.9+	0.1−	2000 03 11	703	0.8−	0.1+	2000 04 04	704	0.2−	0.9+
1995 01 20	411	0.4−	0.9−	2000 03 11	703	1.3−	0.7+	2000 04 08	704	0.5+	0.7−
1995 02 01	411	0.3−	0.2+	2000 03 11	703	0.2+	0.8+	2000 04 08	704	0.7+	0.7−
1995 02 01	411	0.4−	1.0+	2000 03 15	704	0.2−	0.1−	2000 04 08	704	0.3+	0.3+
1998 12 15	704	0.4+	0.4−	2000 03 15	704	0.7−	0.8+	2000 04 08	704	0.4−	0.6−
1998 12 15	704	1.0−	0.6+	2000 03 15	704	0.3+	0.5+	2000 04 08	704	0.8+	1.1+
1998 12 15	704	0.2−	0.1−	2000 03 15	704	0.5+	0.7+	2000 04 14	704	1.1−	0.6−
1998 12 15	704	0.5+	0.4+	2000 03 15	704	0.2+	0.8+	2000 04 14	704	0.3−	0.0
1998 12 15	704	0.0	0.6+	2000 03 29	704	0.2+	1.0−	2000 04 14	704	1.5−	0.7+
2000 01 08	704	0.3−	0.1−	2000 03 29	704	0.9+	0.9−				
2000 01 08	704	0.4+	0.5−	2000 03 29	704	0.5+	0.7−				

1995 DN = 1978 RR₂ = 2000 FG₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21142695	ω	115.78625	+0.20744477	+0.97746154		
<i>a</i>	2.7905886	Ω	166.01775	−0.94555571	+0.21062068		
<i>e</i>	0.1353010	<i>i</i>	9.33364	−0.25078093	+0.01441773		
<i>P</i>	4.66	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1978 09 12	095	0.1+	0.5−	1997 10 29	704	0.4−	0.0	2000 04 03	699	0.6−	0.1+
1995 02 21	411	1.1−	0.3−	1997 10 30	704	1.6+	1.3−	2000 04 04	704	0.4+	0.1−
1995 02 21	411	0.0	0.2−	1997 10 30	704	1.3+	0.9−	2000 04 04	704	0.1+	0.3−
1995 02 22	411	0.2+	0.1+	1997 10 30	704	1.9+	1.1−	2000 04 04	704	0.3+	0.2−
1995 02 22	411	0.5+	0.5+	1997 10 30	704	0.8+	1.0−	2000 04 04	704	0.1+	0.1−
1995 02 26	411	0.1+	0.2−	1997 10 30	704	1.0−	0.5−	2000 04 04	704	0.2−	0.3−
1995 02 26	411	0.2−	0.4−	1997 11 26	566	0.8−	1.1+	2000 04 06	699	0.0	0.1+
1995 03 05	399	1.5−	1.4−	1997 11 26	566	0.7−	1.2+	2000 04 06	699	0.2−	0.1+
1995 03 05	399	(2.5− 0.8+)		1997 11 26	566	0.2+	1.5+	2000 04 06	699	0.4−	0.7+
1995 03 06	411	0.2−	0.8+	2000 01 05	699	1.5−	1.1+	2000 04 06	699	0.0	0.2+
1995 03 06	411	0.2+	0.1+	2000 01 05	699	0.1−	0.0	2000 04 08	704	0.5−	0.1+
1995 03 07	046	0.1+	1.1−	2000 01 05	699	0.0	0.6+	2000 04 08	704	0.2−	0.0

1995 03 07	046	(3.2− 3.1−)		2000 03 08	704	0.5+	1.2−	2000 04 08	704	0.1+	0.3+
1995 03 07	046	0.0	0.7+	2000 03 08	704	0.5+	0.1+	2000 04 08	704	0.6−	0.7−
1995 03 07	046	0.1−	0.6+	2000 03 08	704	1.5+	0.9+	2000 04 08	704	0.2+	0.1+
1995 03 07	046	0.3+	0.5+	2000 03 08	704	0.6+	0.6+	2000 04 10	608	0.0	0.7−
1995 03 07	046	0.0	0.4+	2000 03 08	704	(0.2− 2.4+)		2000 04 10	608	0.2+	0.6−
1995 03 11	411	0.1−	0.1+	2000 03 29	704	0.0	0.0	2000 04 10	608	0.0	0.6−
1995 03 11	411	0.1−	0.3−	2000 03 29	704	0.1+	0.1+	2000 04 13	704	0.4+	0.2−
1995 03 20	411	0.2+	0.4−	2000 03 29	704	0.1−	0.1−	2000 04 13	704	0.1−	0.1−
1995 03 20	411	1.6+	0.7−	2000 03 29	704	0.1+	0.0	2000 04 13	704	0.2+	0.0
1997 10 29	704	0.1−	0.3−	2000 03 29	704	0.1+	0.3+	2000 04 13	704	0.1+	0.0
1997 10 29	704	0.7−	0.2+	2000 04 03	699	0.3−	0.0	2000 04 13	704	0.3−	0.3−
1997 10 29	704	0.9−	0.0	2000 04 03	699	0.6−	0.0				
1997 10 29	704	1.0−	0.5+	2000 04 03	699	0.5−	0.1+				

1995 ER₅ = 2000 EP₂₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18192995	ω	288.59253	−0.03054986	−0.99814811		
<i>a</i>	3.0846076	Ω	162.90041	+0.97121038	−0.04208245		
<i>e</i>	0.0775746	<i>i</i>	10.30576	+0.23625644	+0.04392524		
<i>P</i>	5.42	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 02	691	0.2+	0.2−	2000 02 04	704	0.1−	0.2−	2000 03 05	704	0.0	0.4−
1995 03 02	691	1.2+	0.3+	2000 02 04	704	0.4+	0.0	2000 03 09	704	0.2+	0.0
1995 03 02	691	0.3+	0.2−	2000 02 04	704	1.3+	0.2+	2000 03 09	704	0.2−	0.6+
1995 03 07	691	0.6+	0.1+	2000 02 04	704	0.4−	0.1+	2000 03 09	704	1.1+	0.5−
1995 03 07	691	0.4+	0.5−	2000 02 04	704	0.4−	0.1+	2000 03 09	704	0.1+	0.2−
1995 04 04	691	0.7−	0.1−	2000 03 05	704	0.2−	0.0	2000 03 09	704	0.4−	0.6+
1995 04 04	691	0.5−	0.4−	2000 03 05	704	1.0−	0.2−				
1995 04 04	691	1.6−	1.0+	2000 03 05	704	0.4−	0.1−				

1995 FS₁₅ = 1999 JR₁₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26998013	ω	31.72338	−0.70417224	+0.70956466		
<i>a</i>	2.3709088	Ω	193.57367	−0.67218235	−0.67785177		
<i>e</i>	0.0436797	<i>i</i>	6.28168	−0.22871891	−0.19244472		
<i>P</i>	3.65	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 03 28	691	0.2+	0.2−	1999 05 13	704	0.8−	1.0+	1999 05 18	704	0.9−	1.0+
1995 03 28	691	1.1+	0.9−	1999 05 13	704	0.4−	0.3+	1999 05 19	704	1.0+	1.1−
1995 03 28	691	0.0	0.4−	1999 05 13	704	0.3−	0.4−	1999 05 19	704	1.6+	1.1−
1995 04 05	691	0.3−	0.3+	1999 05 18	704	0.4+	0.9+	1999 05 19	704	0.5−	1.1−
1995 04 05	691	0.7−	0.7+	1999 05 18	704	0.1−	0.9+	1999 05 19	704	0.3+	1.1−
1995 04 05	691	0.3−	0.4+	1999 05 18	704	1.2−	0.4+	1999 05 19	704	0.9+	1.1−
1999 05 13	704	0.2+	0.6+	1999 05 18	704	0.3−	0.9+				

1995 GP₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	316.20374		(2000.0)		P		Q
n	0.21028204	ω	169.98267		−0.37715677		+0.92169875
a	2.8007086	Ω	77.81428		−0.85601593		−0.30954259
e	0.1136246	i	5.32343		−0.35353854		−0.23378365
P	4.69	H	14.9	G	0.15	U	5

2000 APR. 18

M.P.C. 39961

1995 03 31	327	0.5+	0.4−	1995 04 03	327	1.0+	0.1+	2000 04 08	704	0.3+	0.7−
1995 03 31	327	0.1+	0.1+	1995 04 03	327	0.1+	0.1−	2000 04 08	704	0.2+	0.3+
1995 03 31	327	0.2+	0.2−	2000 04 04	699	0.0	0.3+	2000 04 08	704	0.0	0.1−
1995 03 31	327	0.7+	0.4−	2000 04 04	699	0.1−	0.8+	2000 04 08	704	0.3−	0.2−
1995 03 31	327	0.1+	0.2+	2000 04 04	699	0.4−	0.1+	2000 04 08	704	0.4+	0.7−
1995 04 02	327	0.6+	0.3−	2000 04 04	699	0.3+	0.2−	2000 04 09	699	0.2+	0.0
1995 04 02	327	0.4−	0.1−	2000 04 07	704	0.5+	0.1−	2000 04 09	699	0.2−	0.0
1995 04 02	327	0.8−	0.1+	2000 04 07	704	0.3+	0.2−	2000 04 09	699	0.9−	1.0+
1995 04 03	327	0.3−	0.3+	2000 04 07	699	0.2−	0.3−	2000 04 09	699	0.9−	0.0
1995 04 03	327	1.2−	0.2+	2000 04 07	699	0.7+	0.9−				
1995 04 03	327	0.2−	0.1+	2000 04 07	704	0.1+	0.0				

1995 JH₁ = 2000 EV₄₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	251.22209		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18025655	<i>ω</i>	170.92203	+0.61374167		+0.78907911	
<i>a</i>	3.1036686	<i>Ω</i>	136.93285	−0.72672592		+0.57749420	
<i>e</i>	0.1585917	<i>i</i>	2.18099	−0.30852975		+0.20941491	
<i>P</i>	5.47	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 05 05	010	(0.3+	3.6−)	2000 03 10	704	0.3+	0.4−	2000 04 05	704	0.4+	0.1−
1995 05 05	010	1.4−	0.9+	2000 03 10	704	1.2+	0.1−	2000 04 05	704	0.2−	0.3+
1995 05 05	010	1.4−	0.3−	2000 03 10	704	0.1+	0.8+	2000 04 05	704	0.2+	0.1+
1995 05 08	010	(1.1+	3.3−)	2000 03 10	704	0.5+	0.1+	2000 04 05	704	0.2+	0.0
1995 05 08	010	(0.2−	2.5−)	2000 03 14	691	0.4−	0.9−	2000 04 05	704	0.2−	0.1+
1995 05 08	010	0.9+	0.6−	2000 03 14	691	0.7−	1.1−	2000 04 07	699	0.3−	0.1+
1995 05 29	691	0.2+	0.2−	2000 03 14	691	0.5−	0.8−	2000 04 07	699	0.5+	0.5−
1995 05 29	691	1.4+	0.1−	2000 03 27	699	0.5−	0.1+	2000 04 07	699	1.2+	0.1−
1995 05 29	691	0.1+	0.4−	2000 03 27	699	0.0	0.2−	2000 04 07	699	0.5+	0.2+
1996 08 11	816	0.0	0.1+	2000 03 27	699	0.0	0.4−	2000 04 10	704	0.5+	0.5+
1996 08 11	816	0.1−	0.2+	2000 03 27	699	0.3−	0.4+	2000 04 10	704	0.3−	0.4−
1996 08 11	816	0.0	0.2+	2000 04 02	699	0.1−	0.4−	2000 04 10	704	0.5+	0.5−
1996 08 11	816	0.0	0.1+	2000 04 02	699	0.7−	0.5+	2000 04 10	704	0.4+	0.6−
1996 08 11	816	0.2−	0.2+	2000 04 02	699	0.6−	0.2−	2000 04 10	704	0.3+	0.1−
2000 03 08	704	0.9+	0.3+	2000 04 02	699	0.8−	0.4+	2000 04 10	704	0.3−	0.7+
2000 03 08	704	0.3−	0.7+	2000 04 04	704	0.1−	1.5+	2000 04 10	704	0.5+	0.3−
2000 03 08	704	0.1−	0.7+	2000 04 04	704	0.7−	0.5+	2000 04 10	704	0.2+	0.3−
2000 03 08	704	0.3−	1.2+	2000 04 04	704	0.5−	0.3+	2000 04 10	704	0.2+	0.6−

1995 MA = 2000 GO₅₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	129.17464		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.17327834	<i>ω</i>	222.89043	+0.42645750		−0.89849671	
<i>a</i>	3.1864457	<i>Ω</i>	202.48758	+0.88596533		+0.43812436	
<i>e</i>	0.0832620	<i>i</i>	15.79401	+0.18220709		−0.02739921	
<i>P</i>	5.69	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 10 10	691	0.4+	0.3+	1995 07 28	608	1.0−	0.3−	1999 02 17	704	0.1−	0.2−
1991 10 10	691	0.8+	0.2+	1995 07 28	608	0.9−	0.8−	2000 03 01	703	1.0−	0.6+
1991 10 10	691	0.8+	0.2+	1995 08 03	608	0.3−	0.7+	2000 03 01	703	1.1+	0.2+
1995 06 21	608	0.6−	1.1+	1995 08 03	608	0.4−	0.4+	2000 03 01	703	1.2−	1.3−
1995 06 21	608	0.1−	0.0	1997 10 29	704	(2.8+	1.6+)	2000 03 01	703	0.1−	0.1+
1995 06 21	608	0.8−	0.3−	1997 10 29	704	0.6+	1.1+	2000 04 04	699	0.2+	0.2+
1995 06 22	608	1.5−	0.7−	1997 10 29	704	0.3−	0.0	2000 04 04	699	0.6+	0.9+
1995 06 22	608	1.3−	0.6−	1997 10 29	704	0.1+	0.8+	2000 04 04	699	0.3−	0.7+
1995 06 22	608	1.7−	0.9−	1997 10 29	704	0.7−	0.0	2000 04 04	699	1.0+	0.3+
1995 06 23	608	0.7+	0.5+	1997 10 30	704	1.0+	1.3−	2000 04 05	704	0.2+	0.4+
1995 06 23	608	0.2+	0.4+	1997 10 30	704	(1.0+	2.3−)	2000 04 05	704	0.1+	0.0
1995 06 23	608	0.3+	0.5+	1997 10 30	704	(1.8+	2.6−)	2000 04 05	704	0.2+	0.4+
1995 06 23	608	0.1+	0.3+	1997 10 30	704	0.9+	1.9−	2000 04 05	704	0.6+	0.3+
1995 06 27	608	0.0	0.2−	1997 10 30	566	0.1−	0.0	2000 04 05	704	0.5+	0.8+
1995 06 27	608	0.5+	0.0	1997 10 30	566	0.1−	0.6+	2000 04 06	704	0.2−	0.3+

1995 06 28	608	0.1+	0.2−	1997 10 30	566	0.2+	0.1−	2000 04 06	704	0.7+	0.0
1995 06 28	608	0.1−	0.0	1997 11 06	704	0.1−	0.5+	2000 04 06	704	0.4−	0.3−
1995 06 28	608	0.6+	1.0+	1997 11 06	704	0.4−	0.4+	2000 04 06	704	0.9+	0.6−
1995 06 28	608	0.5+	0.7+	1997 11 06	704	0.7−	0.5+	2000 04 06	704	1.0+	1.1−
1995 06 30	608	0.0	0.4−	1997 11 06	704	1.0−	0.0	2000 04 07	699	0.2−	0.7−
1995 06 30	608	0.1−	0.1−	1997 11 06	704	0.5−	0.3+	2000 04 07	699	0.5−	0.1−
1995 07 05	608	0.6−	1.0−	1999 01 23	704	0.0	0.8−	2000 04 07	704	0.7+	0.5+
1995 07 05	608	1.0−	1.4−	1999 01 23	704	0.1−	0.4−	2000 04 07	699	0.4−	0.2−
1995 07 06	608	0.7−	0.4−	1999 01 23	704	0.1+	0.8−	2000 04 07	704	0.9+	0.3+
1995 07 07	608	1.7+	0.5+	1999 01 23	704	0.8+	0.6+	2000 04 07	699	0.9−	0.7−
1995 07 07	608	0.8+	0.8+	1999 01 23	704	0.1−	1.9+	2000 04 07	704	0.0	1.1+
1995 07 07	608	0.9+	0.9+	1999 02 17	704	0.9−	0.7−	2000 04 07	704	0.7+	0.9−
1995 07 27	608	0.2+	0.0	1999 02 17	704	1.2−	0.5+	2000 04 07	704	0.5+	0.5−
1995 07 27	608	0.3+	0.1+	1999 02 17	704	0.3−	0.3+				

1995 TO = 2000 ET₁₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	110.45156		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.30001528	<i>ω</i>	15.11355	+0.85844888		−0.51259151	
<i>a</i>	2.2099060	<i>Ω</i>	15.76051	+0.46353379		+0.76053673	
<i>e</i>	0.1581917	<i>i</i>	3.74928	+0.21954940		+0.39853963	
<i>P</i>	3.29	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 10 12	817	0.1+	0.2+	1995 10 24	033	0.0	0.3−	2000 03 05	704	0.0	0.3−
1995 10 12	817	0.1+	0.2+	1995 10 24	033	0.8−	0.3−	2000 03 05	704	0.2−	0.2+
1995 10 12	817	0.0	0.2+	1995 10 25	033	0.1+	0.3−	2000 03 05	704	1.2−	1.4+
1995 10 12	817	0.1−	0.2+	1995 10 27	817	0.2+	0.2+	2000 03 05	704	0.5−	0.6−
1995 10 13	817	0.9+	0.3+	1995 10 27	817	0.2−	0.6+	2000 03 05	704	1.3+	0.8−
1995 10 13	817	0.6+	0.4+	1998 08 17	704	0.6+	0.4+	2000 03 08	704	0.1+	1.4+
1995 10 13	817	0.9+	0.1+	1998 08 17	704	0.4−	0.5−	2000 03 08	704	0.1−	1.3+
1995 10 13	817	0.2+	0.2+	1998 08 17	704	(1.5−	2.7+)	2000 03 08	704	0.3+	0.9+
1995 10 14	817	0.4+	0.0	1998 08 17	704	0.6−	1.4+	2000 03 08	704	0.7+	0.5+
1995 10 14	817	0.2+	0.0	2000 02 04	704	0.3+	0.2−	2000 03 08	704	0.7+	0.5+
1995 10 14	817	0.2+	0.0	2000 02 04	704	0.2+	1.7−	2000 03 11	699	0.0	0.3+
1995 10 14	817	0.0	0.0	2000 02 04	704	1.2+	1.5−	2000 03 11	699	1.0−	0.7+
1995 10 18	817	0.3−	0.0	2000 02 04	704	0.6+	0.6−	2000 03 11	699	0.4+	0.2+
1995 10 18	817	0.7−	0.4−	2000 02 04	704	0.8−	1.7−	2000 03 11	699	0.6−	0.5+
1995 10 18	817	0.4−	0.1+	2000 02 11	704	1.8+	1.2+	2000 03 12	704	0.0	0.5+
1995 10 20	010	1.0−	0.3−	2000 02 11	704	0.1+	1.0−	2000 03 12	704	0.7−	0.1+
1995 10 20	010	1.3−	0.2−	2000 02 11	704	0.3−	0.4−	2000 03 12	704	0.0	0.0
1995 10 20	010	1.0−	1.1−	2000 02 25	703	0.1−	0.1−	2000 03 12	704	0.4−	1.4+
1995 10 23	010	(0.0	3.0+)	2000 02 25	703	0.8+	0.0	2000 03 12	704	0.3−	1.1+
1995 10 23	010	(0.0	2.7+)	2000 02 25	703	0.3−	0.1−				
1995 10 23	010	1.2+	1.6+	2000 02 25	703	1.1−	0.7−				

1995 TO₆ = 2000 EF₁₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	35.60139		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28811927	ω	98.07498	-0.40549924	-0.91398003
a	2.2703240	Ω	15.87138	+0.81636589	-0.36924695
e	0.1565840	i	3.04376	+0.41123849	-0.16821769
P	3.42	H	16.4	G 0.15	U 4

M.P.C. 39962

1995 11 21	691	0.4−	0.2−	2000 03 11	704	0.6−	1.0+	2000 03 23	049	0.3+	0.2+
1995 11 21	691	0.3−	0.0	2000 03 11	704	0.6−	0.6+	2000 03 23	049	0.3+	0.4−

1995 UB₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	48.27853		(2000.0)	P		Q	
<i>n</i>	0.24129333	ω	243.24837	+0.99091865		+0.12123446	
<i>a</i>	2.5552840	Ω	109.74154	−0.09055398		+0.92142054	
<i>e</i>	0.1860139	<i>i</i>	3.54258	−0.09939921		+0.36916987	
<i>P</i>	4.08	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 10 21	691	0.4+	0.1−	1995 12 20	608	1.4−	1.5−	1999 10 02	704	0.3+	0.1−
1995 10 21	691	0.5+	0.2−	1996 01 13	608	0.9+	0.2−	1999 10 02	704	0.1+	0.0
1995 10 21	691	0.4+	0.2−	1996 01 13	608	1.5+	0.4−	1999 10 02	704	0.3−	0.4−
1995 10 25	691	0.2−	0.1−	1999 09 14	704	1.9+	0.6−	1999 10 03	699	0.2−	0.5−
1995 10 25	691	0.1−	0.1+	1999 09 14	704	0.3+	1.6−	1999 10 03	699	0.4+	0.1−
1995 10 25	691	0.1+	0.1+	1999 09 14	704	0.2−	0.6−	1999 10 03	699	0.2+	1.3−
1995 11 19	608	(2.2−	1.9+)	1999 09 14	704	0.5−	0.9−	1999 10 31	699	0.2+	0.8+
1995 11 19	608	0.6−	1.1+	1999 09 14	704	0.4+	0.7−	1999 10 31	699	0.9+	1.0+
1995 11 20	608	0.5+	0.3−	1999 09 21	699	0.5−	1.9+	1999 10 31	699	0.3+	0.5+
1995 11 20	608	0.4+	0.1−	1999 09 21	699	1.5−	1.2+	1999 11 05	703	1.3−	1.2+
1995 12 19	608	0.2+	0.1+	1999 09 21	699	0.8−	0.5+	1999 11 05	703	0.8+	0.6+
1995 12 19	608	0.2−	0.2+	1999 10 02	704	0.4+	0.4−	1999 11 05	703	0.1−	0.5+
1995 12 20	608	1.9−	0.8−	1999 10 02	704	0.4−	0.6+	1999 11 05	703	0.9−	0.2−

1995 VW₄ = 2000 BQ₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	93.25389		(2000.0)	P		Q	
<i>n</i>	0.28125465	ω	243.95937	+0.93959682		−0.34074214	
<i>a</i>	2.3071168	Ω	135.94247	+0.32834943		+0.87051974	
<i>e</i>	0.2548328	<i>i</i>	2.67418	+0.09666675		+0.35509180	
<i>P</i>	3.50	<i>H</i>	17.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 11 14	691	0.2+	0.2−	1995 11 25	691	0.2−	0.1+	2000 02 01	691	0.3+	0.6−
1995 11 14	691	0.1−	0.0	1995 11 25	691	0.2−	0.1−	2000 02 04	691	0.3−	0.7+
1995 11 14	691	0.1+	0.1+	2000 01 26	691	0.3+	0.1+	2000 02 04	691	0.3−	0.1−
1995 11 19	691	0.5−	0.0	2000 01 26	691	0.0	0.1+	2000 02 04	691	0.4−	0.2−
1995 11 19	691	0.1+	0.3+	2000 01 26	691	0.1−	0.2+	2000 02 05	695	0.5−	0.3+
1995 11 19	691	0.0	0.1−	2000 02 01	691	0.1+	0.4−	2000 02 05	695	0.5+	0.1+
1995 11 25	691	0.5+	0.1−	2000 02 01	691	0.4+	0.3−				

1995 WA₂₈ = 2000 DY₁₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	31.67482		(2000.0)	P		Q	
<i>n</i>	0.28490678	ω	59.65250	−0.29546023		−0.95350644	
<i>a</i>	2.2873583	Ω	47.65643	+0.84661930		−0.29013495	
<i>e</i>	0.1500244	<i>i</i>	4.60984	+0.44264999		−0.08153028	
<i>P</i>	3.46	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 10 25	327	0.3−	0.1−	1997 04 30	704	0.9+	1.5+	2000 02 06	703	0.8−	0.6−
1995 10 25	327	0.3−	0.2+	1997 04 30	704	0.2+	0.6+	2000 02 28	704	1.0−	1.9+
1995 10 25	327	0.2−	0.4+	1997 04 30	704	0.3−	0.2−	2000 02 28	704	0.7+	0.5+
1995 10 26	327	1.1+	0.0	1997 04 30	704	(4.0−	1.8+)	2000 02 28	704	0.3+	0.7−
1995 10 26	327	0.8+	0.4−	2000 02 03	704	0.3+	1.3−	2000 02 29	704	0.3+	0.9+
1995 10 26	327	1.8−	0.1+	2000 02 03	704	1.3+	0.7−	2000 02 29	704	0.1+	0.4−
1995 11 19	691	0.5−	0.5+	2000 02 03	704	0.4+	1.6+	2000 02 29	704	0.5+	0.7−
1995 11 19	691	0.3−	0.4+	2000 02 03	704	0.5+	0.7−	2000 02 29	704	0.4−	0.1−
1995 11 19	691	0.0	0.1+	2000 02 03	704	0.5−	0.4+	2000 03 11	699	0.1+	0.1−
1995 11 25	691	0.1+	0.4+	2000 02 06	703	0.7−	0.5−	2000 03 11	699	1.3−	1.2+
1995 11 25	691	0.1+	0.4+	2000 02 06	703	0.4−	0.1−	2000 03 11	699	0.2+	0.3+
1995 11 25	691	0.2+	0.3+	2000 02 06	703	0.7−	0.3−	2000 03 11	699	1.3+	0.1−

2000 APR. 18

1995 WJ₃₆ = 2000 AM₁₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	137.33244		(2000.0)	P		Q	
<i>n</i>	0.23576444	ω	200.87051	+0.07454939		+0.96788453	
<i>a</i>	2.5950786	Ω	74.02859	−0.87589156		+0.17864601	
<i>e</i>	0.1401009	<i>i</i>	14.46136	−0.47671414		−0.17687607	
<i>P</i>	4.18	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 11 21	691	0.1+	0.1−	1999 11 03	703	0.1−	0.2−	1999 12 14	704	0.5−	1.9+
1995 11 21	691	0.2+	0.1−	1999 11 03	703	0.0	0.0	1999 12 14	704	0.2+	1.5+
1995 11 21	691	0.1+	0.1−	1999 11 03	703	0.1−	0.1−	2000 01 05	704	0.8+	0.3−
1995 11 28	691	0.0	0.3−	1999 11 06	704	0.2+	0.4−	2000 01 05	704	0.1+	0.2+
1995 11 28	691	0.0	0.1−	1999 11 06	704	0.1+	0.9−	2000 01 05	704	0.1−	0.1+
1995 11 28	691	0.0	0.0	1999 11 06	704	0.5+	0.2−	2000 01 05	704	0.3+	0.7−
1998 06 03	704	0.3−	1.2+	1999 11 06	704	0.7−	0.4−	2000 01 05	704	0.3+	0.2−
1998 06 03	704	0.7+	0.2+	1999 11 06	704	0.0	0.2−	2000 01 06	699	0.2+	1.0+
1998 06 03	704	1.1+	0.7+	1999 11 07	704	0.1−	0.6−	2000 01 06	699	0.1−	0.5+
1998 06 03	704	1.2−	1.8−	1999 11 07	704	0.3−	0.2−	2000 01 06	699	0.0	1.1+
1998 06 03	704	0.2−	0.2+	1999 11 07	704	0.4−	1.0−	2000 01 08	704	0.1+	0.2−
1999 10 02	699	0.0	1.3+	1999 11 07	704	0.0	0.4−	2000 01 08	704	0.3+	0.0
1999 10 02	699	0.9+	0.7+	1999 11 07	704	0.3−	0.9−	2000 01 08	704	0.5−	0.3+
1999 10 02	699	1.4+	0.5−	1999 11 07	704	0.1+	0.0	2000 01 08	704	0.2−	0.8−
1999 10 03	703	0.1−	0.7+	1999 12 03	704	(3.0+	0.7−)	2000 01 08	704	0.4−	0.2−
1999 10 03	703	0.2+	0.4+	1999 12 03	704	0.5+	0.6+	2000 01 30	703	1.2−	0.2+
1999 10 03	703	0.1+	0.3+	1999 12 03	704	0.8−	0.6−	2000 01 30	703	0.2+	1.1−
1999 10 03	703	0.5−	0.1−	1999 12 03	704	1.0+	0.4+	2000 01 30	703	1.1−	0.7+
1999 11 03	703	0.6−	0.2−	1999 12 14	704	(2.7+	3.4+)	2000 01 30	703	0.8−	0.8+

1995 YS

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	51.37285		(2000.0)	P		Q	
<i>n</i>	0.28807724	ω	42.03012	−0.31414892		−0.85886117	
<i>a</i>	2.2705448	Ω	70.02085	+0.71528552		−0.49431777	
<i>e</i>	0.1754107	<i>i</i>	25.49712	+0.62424120		+0.13419178	
<i>P</i>	3.42	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 12 17	369	0.0	0.5+	1996 02 03	658	0.0	0.7+	2000 03 03	688	0.8−	0.3−
1995 12 17	369	0.2+	0.2+	1996 02 03	658	0.5−	0.0	2000 03 03	688	0.8−	0.3−
1995 12 17	369	0.2−	0.2+	1996 02 03	658	0.5+	0.1+	2000 03 04	704	0.9+	0.3+
1995 12 19	369	0.3−	0.5+	1996 02 21	887	0.4−	0.5+	2000 03 04	704	0.7+	0.0
1995 12 19	369	0.3+	0.4−	1996 02 21	887	1.1+	1.2−	2000 03 04	704	0.8+	0.7+
1995 12 19	369	0.2−	0.1+	1996 02 21	887	1.0+	1.1−	2000 03 04	704	0.6+	0.6+
1995 12 21	369	0.4−	0.5−	2000 01 06	704	0.6+	0.0	2000 03 04	704	0.9+	0.8+
1995 12 21	369	0.3−	0.4−	2000 01 06	704	1.1+	0.2+	2000 03 18	704	0.5−	0.9−
1995 12 21	369	0.2+	0.0	2000 01 06	704	1.4−	0.0	2000 03 18	704	0.5−	0.4+
1995 12 25	369	0.2+	0.0	2000 01 06	704	0.1−	0.4+	2000 03 18	704	1.3−	0.6−
1995 12 25	369	0.7−	0.5−	2000 02 03	704	0.5−	0.2+	2000 03 18	704	0.1−	0.5+
1996 01 11	887	0.5+	1.0+	2000 02 03	704	0.0	1.1−	2000 04 02	704	0.3+	0.1+
1996 01 11	887	0.2+	0.1−	2000 02 03	704	0.5+	0.6+	2000 04 02	704	0.1−	0.8−
1996 01 11	887	0.1+	0.2−	2000 02 03	704	1.1+	0.5+	2000 04 02	704	0.4−	0.9−

1995 YO₁

Id. E. Bowell (1998 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams		

2000 APR. 18

M.P.C. 39963

Residuals in seconds of arc

1995 12 21	411	0.2−	0.6+	1998 09 21	699	0.2−	0.2+	2000 03 29	704	0.2+	0.5−
1995 12 21	411	0.1−	0.2+	2000 03 12	703	0.0	0.2+	2000 03 29	704	0.3+	0.8−
1995 12 22	411	0.4+	0.2+	2000 03 12	703	0.3+	0.8+	2000 03 29	704	1.4+	0.9−
1995 12 22	411	0.5−	0.2+	2000 03 12	703	0.5+	0.3+	2000 03 29	704	0.7+	0.5−
1995 12 26	411	0.4−	0.2+	2000 03 12	703	0.3−	0.4+	2000 04 03	704	0.2+	0.5+
1995 12 26	411	0.4−	0.3+	2000 03 12	704	0.1−	0.0	2000 04 03	704	0.1+	0.1−
1995 12 30	411	0.0	0.1−	2000 03 12	704	1.0−	0.4−	2000 04 03	704	0.1−	0.5−
1995 12 30	411	0.4+	0.1+	2000 03 12	704	0.0	1.4−	2000 04 03	704	0.5−	0.4−
1996 01 10	411	0.4−	0.9−	2000 03 12	704	0.8−	0.6−	2000 04 03	704	0.0	0.4+
1996 01 10	411	1.1−	0.0	2000 03 29	704	0.5−	0.2+	2000 04 08	704	0.1−	0.1+
1996 01 24	411	0.9+	0.5−	2000 03 29	704	0.5−	0.1−	2000 04 08	704	0.4+	1.5+
1996 01 24	411	1.6+	0.1−	2000 03 29	704	0.4−	0.4+	2000 04 08	704	0.1+	1.0+
1998 09 21	699	0.0	0.2+	2000 03 29	704	0.2−	0.4+				
1998 09 21	699	0.3+	0.7−	2000 03 29	704	0.2+	0.1−				

1995 YK₁₁ = 2000 GF₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	34.16991	(2000.0)	P	Q	
<i>n</i>	0.26715494	ω	310.35882	−0.61246924	−0.79049261
<i>a</i>	2.3875945	Ω	177.40768	+0.73615461	−0.57114743
<i>e</i>	0.1536631	<i>i</i>	2.14860	+0.28802401	−0.22116070
<i>P</i>	3.69	<i>H</i>	16.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1995 12 18	691	0.1+	0.1−	2000 02 26	691	0.2−	0.8−	2000 03 30	703	1.3−	0.1+
1995 12 18	691	0.3+	0.0	2000 02 26	691	0.3−	1.0−	2000 04 04	704	0.8+	0.6−
1995 12 18	691	0.3+	0.2+	2000 02 26	691	0.0	0.9−	2000 04 04	704	0.8+	1.0+
1995 12 25	691	0.0	0.2−	2000 03 10	704	(1.1−	2.2+)	2000 04 04	704	(1.1+	2.6+)
1995 12 25	691	0.0	0.1+	2000 03 10	704	0.2+	0.1−	2000 04 05	704	0.2+	0.0
1995 12 25	691	0.0	0.0	2000 03 10	704	0.2+	0.8−	2000 04 05	704	0.3+	0.4+
1995 12 30	691	0.3−	0.0	2000 03 10	704	1.0−	0.6−	2000 04 05	704	0.2−	0.3+
1995 12 30	691	0.0	0.0	2000 03 11	704	0.2+	0.3−	2000 04 05	704	0.6+	0.0
1995 12 30	691	0.2−	0.1+	2000 03 11	704	0.3+	0.3+	2000 04 05	704	0.1−	0.0
1998 10 28	691	0.0	0.2−	2000 03 11	704	0.1+	0.6+	2000 04 06	704	0.2+	0.1+
1998 10 28	691	0.1+	0.1+	2000 03 11	704	0.2+	0.0	2000 04 06	704	0.1+	0.5+
2000 02 06	695	0.2+	0.6+	2000 03 11	704	0.2+	0.0	2000 04 06	704	0.7−	0.4+
2000 02 06	695	0.2+	0.7+	2000 03 30	703	1.6−	0.5−	2000 04 06	704	0.8+	0.8−
2000 02 06	695	0.1+	0.6+	2000 03 30	703	0.2+	0.0	2000 04 06	704	0.0	0.2+
2000 02 06	695	0.2+	0.7+	2000 03 30	703	0.5−	0.0				

1995 YA₂₃ = 2000 CW₉₄ = 2000 EW₈

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	71.13872	(2000.0)	P	Q	
<i>n</i>	0.26590328	ω	86.46083	+0.43459282	−0.90061362
<i>a</i>	2.3950813	Ω	337.77775	+0.82106067	+0.39843666
<i>e</i>	0.1696179	<i>i</i>	0.74507	+0.37011951	+0.17361836
<i>P</i>	3.71	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1995 12 21	566	0.4+	0.1−	2000 02 04	691	0.2+	0.1+	2000 02 29	704	0.4+	0.1+
1995 12 21	566	0.4+	0.1−	2000 02 04	691	0.3+	0.2+	2000 02 29	704	0.5+	0.1+
1995 12 21	566	0.4+	0.1+	2000 02 04	691	0.2+	0.1+	2000 03 03	704	0.3+	0.2−
1995 12 23	566	0.6−	0.0	2000 02 06	691	0.1−	0.3−	2000 03 03	704	0.3+	0.1−
1995 12 23	566	0.6−	0.2+	2000 02 06	691	0.1−	0.3−	2000 03 03	704	0.6+	0.1+
1995 12 23	566	0.6−	0.1−	2000 02 06	691	0.2−	0.4−	2000 03 03	704	0.1+	0.3−
1995 12 24	566	0.2−	0.1−	2000 02 08	704	0.1+	0.4−	2000 03 03	704	0.7+	0.6−
1995 12 24	566	0.0	0.1−	2000 02 08	704	0.4−	0.7−	2000 03 05	704	0.1+	0.6+
1995 12 24	566	0.2−	0.1−	2000 02 08	704	1.2−	0.5−	2000 03 05	704	0.3+	1.5+
1995 12 25	566	0.6+	0.1+	2000 02 11	704	0.2−	0.2+	2000 03 05	704	0.3+	0.1+
1995 12 25	566	0.5+	0.1+	2000 02 11	704	0.5−	0.7+	2000 03 05	704	(2.2−	0.8+)
1995 12 25	566	0.3+	0.1+	2000 02 11	704	0.1+	0.6+	2000 03 05	704	0.2−	0.3+
1998 08 17	704	0.6+	1.0+	2000 02 11	704	0.3−	0.8+	2000 03 11	699	0.5−	0.2+
1998 08 17	704	0.7−	0.7−	2000 02 25	703	1.2−	1.1+	2000 03 11	699	0.1+	0.2+
1998 08 17	704	0.1+	0.7−	2000 02 25	703	0.9+	0.0	2000 03 11	699	0.1+	0.1+

1998 08 17	704	0.8−	0.7+	2000 02 25	703	0.4−	0.2+	2000 03 11	699	0.5−	0.3+
1998 08 17	704	(2.7+	4.0+)	2000 02 25	703	0.6−	1.1−	2000 04 03	691	0.5+	0.8−
1998 10 21	910	0.2−	0.0	2000 02 29	704	0.4+	0.1+	2000 04 03	691	0.2+	0.6−
1998 10 21	910	0.5+	0.5+	2000 02 29	704	(1.7−	2.3+)	2000 04 03	691	0.3+	0.8−
1998 10 21	910	0.3+	0.1+	2000 02 29	704	0.0	0.1−				

1996 AA₁₁ = 1998 TE₂₄ = 2000 EL₄₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	29.80781	(2000.0)	P	Q	
<i>n</i>	0.26706911	ω	290.33341	−0.73050563	−0.68276726
<i>a</i>	2.3881061	Ω	206.61211	+0.63748320	−0.67453105
<i>e</i>	0.1459673	<i>i</i>	1.76517	+0.24490138	−0.28077880
<i>P</i>	3.69	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1996 01 13	691	0.3−	0.2−	2000 03 09	704	0.7−	0.3+	2000 04 05	704	0.1+	0.1−
1996 01 13	691	0.3−	0.2−	2000 03 10	704	0.2−	0.0	2000 04 05	704	0.1+	0.3+
1996 01 13	691	0.2−	0.2−	2000 03 10	704	0.2+	0.3−	2000 04 05	704	0.2+	0.6+
1996 01 27	691	0.2+	0.3−	2000 03 10	704	0.3−	0.4+	2000 04 05	704	0.4−	0.3+
1996 01 27	691	0.2+	0.3−	2000 03 10	704	0.5+	0.2+	2000 04 05	704	0.2+	0.4+
1996 01 27	691	0.2+	0.2−	2000 03 10	704	0.9+	1.2+	2000 04 06	704	0.1+	0.2−
1998 10 14	691	0.3−	0.7+	2000 03 11	704	0.1−	0.3−	2000 04 06	704	0.5−	0.3+
1998 10 14	691	0.4−	0.9+	2000 03 11	704	0.2−	0.1−	2000 04 06	704	0.3−	0.5+
1998 10 14	691	0.0	0.9+	2000 03 11	704	0.5+	0.4+	2000 04 06	704	0.2+	0.1+
1998 10 19	691	0.3−	0.6+	2000 03 11	704	0.8+	0.4+	2000 04 06	704	0.6+	0.8+
1998 10 19	691	0.5−	0.7+	2000 03 11	704	1.8+	1.6+	2000 04 07	699	0.5−	0.3+
1998 10 19	691	0.3−	0.8+	2000 03 26	699	0.9−	0.5−	2000 04 07	699	0.1+	0.0
2000 03 03	703	(2.8−	0.8+)	2000 03 26	699	0.4−	0.2+	2000 04 07	699	0.1+	0.3+
2000 03 03	703	0.7−	1.0−	2000 03 26	699	0.7−	0.3+	2000 04 07	699	0.1−	0.5+
2000 03 03	703	0.3−	0.6+	2000 03 26	699	0.4−	0.0	2000 04 08	704	0.3+	0.6−
2000 03 03	703	0.1+	0.2−	2000 04 04	704	0.1+	0.2−	2000 04 08	704	0.0	0.9−
2000 03 09	704	0.0	0.2+	2000 04 04	704	0.2+	0.1−	2000 04 08	704	0.4−	1.3−
2000 03 09	704	0.0	0.7+	2000 04 04	704	0.2+	0.7−	2000 04 08	704	0.5+	0.1+
2000 03 09	704	0.6−	0.1+	2000 04 04	704	1.2+	0.3−	2000 04 08	704	0.5−	1.2−
2000 03 09	704	0.0	1.1+	2000 04 04	704	0.9+	0.6+				

1996 AC₁₁ = 2000 GL₆

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	354.26726	(2000.0)	P	Q	
<i>n</i>	0.26832840	ω	8.51035	−0.99369086	+0.11214469
<i>a</i>	2.3806285	Ω	177.92700	−0.10508571	−0.92653755
<i>e</i>	0.1606136	<i>i</i>	2.26516	−0.03918505	−0.35909850
<i>P</i>	3.67	<i>H</i>	16.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1996 01 13	691	0.1−	0.0	2000 04 04	704	0.2−	1.9+	2000 04 06	699	0.0	0.8−
1996 01 13	691	0.1+	0.0	2000 04 04	704	0.5+	0.2+	2000 04 06	704	0.3+	0.3−
1996 01 13	691	0.1−	0.0	2000 04 04	704	0.4+	1.2−	2000 04 06	699	0.2+	0.6+
1996 01 20	691	0.1+	0.1−	2000 04 04	704	1.1+	0.1−	2000 04 06	704	0.6+	0.8+
1996 01 20	691	0.1+	0.0	2000 04 05	704	0.1+	0.1−	2000 04 06	699	0.2+	0.2+
1996 01 27	691	0.1+	0.2+	2000 04 05	704	0.6+	0.0	2000 04 06	691	0.9−	0.6−
1996 01 27	691	0.1−	0.1−	2000 04 05	704	0.4+	0.3+	2000 04 06	704	0.0	0.8+
1996 01 27	691	0.1−	0.1−	2000 04 05	704	0.1−	0.4+	2000 04 06	691	0.7−	0.6−
2000 04 03	699	0.0	0.3−	2000 04 05	704	0.4+	0.2−	2000 04 06	691	0.6−	0.6−
2000 04 03	699	0.9−	0.7+	2000 04 06	699	0.5+	0.7+	2000 04 08	691	0.4−	0.4−
2000 04 03	699	0.4−	0.1−	2000 04 06	704	0.2+	0.1−	2000 04 08	691	0.6−	0.2−
2000 04 03	699	1.0−	0.6−	2000 04 06	704	0.5+	0.0	2000 04 08	691	0.2−	0.2−

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	277.25371	(2000.0)	P		Q		Williams			
<i>n</i>	0.29256361	ω	215.46276	+0.64424852	+0.75510803					
<i>a</i>	2.2472731	Ω	94.97045	−0.67055770	+0.63406438					
<i>e</i>	0.2027315	<i>i</i>	7.00360	−0.36782634	+0.16665601					
<i>P</i>	3.37	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2			
Residuals in seconds of arc										
1990 05 22	095	(3.1− 1.4−)	1999 01 10	699	0.1− 0.2+	2000 04 12	704	0.1− 2.0+		
1990 05 22	095	0.2+ 0.7+	1999 01 10	699	0.8+ 0.2+	2000 04 12	704	1.0+ 0.0		
1996 01 15	691	0.2− 0.0	2000 04 03	688	0.4− 0.1−	2000 04 12	704	0.9+ 1.4+		
1996 01 15	691	0.3− 0.1−	2000 04 03	688	0.6− 0.2−	2000 04 12	704	0.5− 0.0		
1996 01 15	691	0.3+ 0.0	2000 04 03	691	0.6− 0.4+	2000 04 13	704	1.0+ 0.3−		
1996 01 24	691	0.2− 0.1+	2000 04 03	691	0.8− 0.2+	2000 04 13	704	0.2+ 0.6+		
1996 01 24	691	0.1+ 0.0	2000 04 03	691	0.6− 0.4+	2000 04 13	704	0.3− 0.7−		
1996 01 24	691	0.2+ 0.2−	2000 04 07	704	0.2+ 0.6−	2000 04 13	704	0.1− 0.2+		
1996 01 27	691	0.0 0.3−	2000 04 07	704	0.7+ 0.1−	2000 04 13	704	0.5− 0.8−		
1996 01 27	691	0.0 0.0	2000 04 07	704	0.1− 0.3−	2000 04 16	608	0.2+ 0.6−		
1996 01 27	691	0.0 0.2−	2000 04 07	704	0.1− 0.3+	2000 04 16	608	0.4+ 1.4−		
1999 01 10	699	0.7− 0.5+	2000 04 07	704	0.5− 0.4+	2000 04 16	608	0.2+ 0.9−		

1996 AM₁₅ = 1994 TE₄ = 1999 PB₈ = 1999 RN₅₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	320.17851	(2000.0)	P		Q		Williams			
<i>n</i>	0.18201001	ω	246.05570	+0.44860728	−0.89372897					
<i>a</i>	3.0837030	Ω	177.28991	+0.82148343	+0.41225703					
<i>e</i>	0.1734908	<i>i</i>	0.23806	+0.35201773	+0.17689735					
<i>P</i>	5.42	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1			
Residuals in seconds of arc										
1994 10 02	691	0.2+ 0.0	1996 01 18	327	0.0 0.0	1999 09 07	704	0.3+ 0.2−		
1994 10 02	691	0.1− 0.2−	1999 08 07	699	0.2− 0.2−	1999 09 09	704	0.7− 0.9−		
1994 10 02	691	0.3+ 0.3−	1999 08 07	699	0.2− 0.6+	1999 09 09	704	0.2− 0.5−		
1994 10 11	691	0.2− 0.2−	1999 08 07	699	0.3+ 0.2−	1999 09 09	704	0.4+ 0.1+		
1994 10 11	691	0.2+ 0.3−	1999 08 08	691	0.2− 0.2+	1999 09 09	704	0.7− 0.2+		
1994 10 11	691	0.2+ 0.4−	1999 08 08	691	0.2− 0.1+	1999 10 04	703	0.1− 0.1−		
1995 10 29	327	0.3+ 0.1+	1999 08 08	691	0.1− 0.2+	1999 10 04	703	0.2− 0.7+		
1995 10 29	327	0.2− 0.3+	1999 08 22	703	0.4+ 0.0	1999 10 04	703	0.7+ 0.2−		
1995 10 29	327	0.4− 0.5+	1999 08 22	703	0.4− 0.5+	1999 10 04	703	0.2+ 0.5+		
1996 01 14	327	0.3− 0.5+	1999 08 22	703	0.4+ 0.4+	1999 11 08	704	0.0 0.3−		
1996 01 14	327	0.9+ 0.0	1999 08 22	703	0.2− 0.0	1999 11 08	704	0.0 0.3−		
1996 01 14	327	0.3− 0.0	1999 09 07	704	0.3− 0.8+	1999 11 08	704	0.6+ 0.6+		
1996 01 18	327	0.2− 0.2+	1999 09 07	704	0.5− 0.2−	1999 11 08	704	0.0 0.1−		
1996 01 18	327	0.5+ 0.7+	1999 09 07	704	0.0 1.3+					

1996 AO₁₇ = 2000 ET₁₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	271.40852	(2000.0)	P		Q		Williams			
<i>n</i>	0.27538986	ω	95.01718	+0.12117889	+0.99262989					
<i>a</i>	2.3397570	Ω	181.94431	−0.92477625	+0.11243493					
<i>e</i>	0.1966192	<i>i</i>	2.12393	−0.36070010	+0.04521385					
<i>P</i>	3.58	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc										
1996 01 13	691	0.4+ 0.1+	1996 01 26	691	0.1− 0.0	2000 03 10	691	0.5− 0.3−		
1996 01 13	691	0.1− 0.2+	2000 03 03	704	0.2+ 0.4+	2000 03 10	691	0.7− 0.3−		
1996 01 13	691	0.0 0.2+	2000 03 03	704	0.6− 0.4−	2000 03 11	704	0.4+ 0.6+		
1996 01 19	691	0.0 0.2+	2000 03 03	704	0.0 0.6+	2000 03 11	704	0.5+ 0.0		
1996 01 19	691	0.0 0.0	2000 03 03	704	0.4+ 0.7−	2000 03 11	704	0.8+ 0.1+		
1996 01 19	691	0.0 0.2−	2000 03 03	704	0.2+ 0.3+					
1996 01 26	691	0.0 0.3−	2000 03 10	691	0.7− 0.3−					

1996 BM₄ = 2000 GJ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	226.95494	(2000.0)	P		Q		Williams			
<i>n</i>	0.27850458	ω	299.92287	+0.71605000	+0.69735331					
<i>a</i>	2.3222795	Ω	15.93278	−0.59492671	+0.63300847					
<i>e</i>	0.1173336	<i>i</i>	6.51713	−0.36515011	+0.33615270					
<i>P</i>	3.54	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc										
1996 01 24	704	0.3+ 0.5−	1996 03 21	704	0.2− 0.9−	2000 03 26	699	0.3− 0.6+		
1996 01 24	704	1.1+ 0.4+	1996 03 21	704	0.8− 0.3−	2000 03 26	699	0.2− 0.5+		
1996 01 25	704	1.8− 0.4+	2000 03 12	704	0.7− 0.7−	2000 03 26	699	2.0− 0.3+		
1996 01 25	704	0.5− 0.5−	2000 03 12	704	0.6+ 0.6−	2000 04 05	704	0.1+ 0.3−		
1996 01 25	704	0.1+ 0.6+	2000 03 12	704	1.5+ 0.4−	2000 04 05	704	0.1− 0.2−		
1996 01 25	704	0.5+ 0.7+	2000 03 12	704	1.9+ 0.5−	2000 04 05	704	0.8+ 0.2+		
1996 01 26	704	0.1+ 0.4−	2000 03 14	703	1.1+ 0.2+	2000 04 05	704	0.1− 0.0		
1996 01 26	704	0.3+ 0.1−	2000 03 14	703	1.4− 0.2+	2000 04 05	704	0.7+ 0.3−		
1996 03 20	704	0.3+ 0.8−	2000 03 14	703	0.2+ 0.0	2000 04 06	704	0.2− 0.3−		
1996 03 20	704	0.5+ 0.3+	2000 03 14	703	0.3+ 0.3+	2000 04 06	704	0.2− 0.0		
1996 03 21	704	0.2+ 0.7+	2000 03 26	699	1.4− 0.9+	2000 04 06	704	0.5− 0.2+		

1996 CQ₇ = 2000 GY₅₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.28693	(2000.0)	P		Q		Williams			
<i>n</i>	0.26214797	ω	85.60922	−0.97853325	−0.20437882					
<i>a</i>	2.4179003	Ω	82.59605	+0.17690016	−0.89892742					
<i>e</i>	0.2113488	<i>i</i>	1.53100	+0.10573088	−0.38750329					
<i>P</i>	3.76	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc										
1996 02 14	098	0.9− 0.8+	2000 02 10	704	0.2+ 1.1+	2000 04 07	699	0.4− 0.4+		
1996 02 14	098	0.1− 0.6+	2000 02 10	704	0.6− 0.5+	2000 04 07	699	0.4− 0.1+		
1996 02 15	098	0.7+ 0.2−	2000 04 05	704	0.0 0.2+	2000 04 07	704	0.2+ 0.1−		
1996 02 15	098	1.5+ 0.9−	2000 04 05	704	0.0 0.1−	2000 04 07	699	0.0 0.5+		
1996 02 24	098	1.3− 0.6−	2000 04 05	704	0.1− 0.5−	2000 04 07	704	0.1+ 0.4−		
1996 02 24	098	0.4− 0.9−	2000 04 05	704	0.1+ 0.3−	2000 04 07	699	0.3− 0.4+		
1996 03 14	098	0.2− 0.3−	2000 04 05	704	0.2+ 0.6−	2000 04 07	704	0.6− 0.4−		
1996 03 14	098	0.4− 0.6+	2000 04 06	704	0.5+ 0.0	2000 04 07	704	0.1+ 0.1−		
1996 03 20	098	0.9+ 0.3+	2000 04 06	704	0.5+ 0.2−	2000 04 07	704	0.2− 0.1−		
1996 03 20	098	0.1− 0.2−	2000 04 06	704	0.1+ 0.1−					
2000 02 10	704	1.7+ 1.7+	2000 04 06	704	0.2− 0.0					

1996 DB₁

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.02027		(2000.0)		P		Q				
<i>n</i>	0.26306427	ω	299.69875		+0.22727825		+0.97327615				
<i>a</i>	2.4122824	Ω	343.34173		−0.84921882		+0.18158075				
<i>e</i>	0.0993923	<i>i</i>	6.57718		−0.47662563		+0.14057723				
<i>P</i>	3.75	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1				
Residuals in seconds of arc											
1996 02 22	411	0.3−	0.0	1998 12 17	704	0.4+	1.4+	2000 04 03	699	0.5−	0.3−
1996 02 22	411	0.3−	0.1−	1998 12 17	704	0.1−	1.4+	2000 04 03	699	0.2−	0.2−
1996 02 23	411	0.1+	0.4−	1998 12 17	704	0.3−	1.0+	2000 04 06	699	0.3−	0.3+
1996 02 23	411	0.1−	0.3−	1998 12 17	704	0.1+	1.3+	2000 04 06	699	0.2−	0.1+
1996 02 27	411	0.9−	0.4−	1998 12 17	704	0.3−	1.3−	2000 04 06	699	0.2−	0.0
1996 02 27	411	0.6−	0.5−	2000 02 10	704	0.7−	0.1+	2000 04 06	699	0.2−	0.4+
1996 03 09	411	1.0−	0.3−	2000 02 10	704	0.6+	0.0	2000 04 07	704	(2.5+	0.1−)
1996 03 09	411	0.4+	0.5−	2000 02 10	704	(2.1+	2.0−)	2000 04 07	704	0.2−	0.3+
1996 03 10	411	0.2−	0.5−	2000 03 09	704	0.2+	0.1−	2000 04 07	704	0.4+	0.2+
1996 03 10	411	0.9+	0.6−	2000 03 09	704	0.6+	0.0	2000 04 07	704	0.2+	0.1+
1996 03 22	411	0.0	1.8−	2000 03 09	704	0.7−	0.6+	2000 04 07	704	0.4+	0.0
1996 03 22	411	0.0	0.2+	2000 03 27	699	0.1+	0.2+	2000 04 08	704	0.3+	0.0

2000 APR. 18

M.P.C. 39965

1996 03 23	566	0.5+	0.7+	2000 03 27	699	0.2-	0.1+	2000 04 08	704	0.8+	0.6+
1996 03 23	566	0.3+	0.8+	2000 03 27	699	0.1-	0.4+	2000 04 08	704	0.4+	0.9+
1996 03 23	566	0.4+	1.0+	2000 03 27	699	0.0	0.1+	2000 04 08	704	0.1+	0.8+
1996 04 20	566	0.1+	0.8+	2000 04 02	699	0.5-	0.3-	2000 04 08	704	0.2-	0.5+
1996 04 20	566	0.2+	0.6+	2000 04 02	699	0.3-	0.4-	2000 04 10	704	0.9+	0.4+
1996 04 20	566	0.0	0.8+	2000 04 02	699	0.0	0.5-	2000 04 10	704	0.9+	0.5-
1997 09 01	566	0.4-	1.0+	2000 04 02	699	0.5-	0.5-	2000 04 10	704	0.8+	0.3+
1997 09 01	566	0.2-	0.9+	2000 04 03	699	0.3-	0.3-	2000 04 10	704	0.1+	0.2+
1997 09 01	566	0.4-	0.9+	2000 04 03	699	0.2-	0.5-	2000 04 10	704	0.6+	0.2+

1996 DP₁ = 2000 EF₁₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	318.80205	(2000.0)	
<i>n</i>	0.25421772	ω	296.87871
<i>a</i>	2.4679262	Ω	273.54538
<i>e</i>	0.0541599	<i>i</i>	6.63661
<i>P</i>	3.88	<i>H</i>	15.2
Residuals in seconds of arc			
1996 02 23	589	0.4-	0.2-
1996 02 23	589	0.5-	0.1-
1996 02 23	589	1.0+	0.0
1996 02 24	589	0.2+	1.5+
1996 02 24	589	0.0	0.3+
1996 02 24	589	0.5-	0.8+
1996 02 24	589	0.2-	0.3-
1996 02 25	589	1.0+	1.1+
1996 02 25	589	0.3+	0.1-
1996 02 25	589	0.1+	0.0
1996 02 26	589	(5.1-	1.3+)
1996 02 27	589	(5.8-	1.0+)

Residuals in seconds of arc

1996 02 23	589	0.4-	0.2-	1996 02 27	589	(5.3-	1.9+)	2000 03 06	608	0.6-	0.6-
1996 02 23	589	0.5-	0.1-	1996 02 28	589	0.0	1.7-	2000 03 06	608	1.1-	0.6-
1996 02 23	589	1.0+	0.0	1996 02 28	589	1.0-	0.0	2000 03 09	704	0.5+	0.5-
1996 02 24	589	0.2+	1.5+	1996 03 11	589	1.1-	0.2+	2000 03 09	704	0.1-	0.5+
1996 02 24	589	0.0	0.3+	1996 03 11	589	1.4+	0.7-	2000 03 09	704	0.4+	0.6+
1996 02 24	589	0.5-	0.8+	1996 03 13	589	0.8-	0.5+	2000 03 09	704	1.1+	0.2-
1996 02 24	589	0.2-	0.3-	1996 03 13	589	0.2-	0.8-	2000 03 09	704	0.5+	0.1+
1996 02 25	589	1.0+	1.1+	1996 03 13	589	0.7+	0.5-	2000 04 04	699	0.8-	0.8+
1996 02 25	589	0.3+	0.1-	1996 03 19	589	(0.1-	5.2+)	2000 04 04	699	0.0	0.0
1996 02 25	589	0.1+	0.0	1996 03 19	589	(0.2+	3.8+)	2000 04 04	699	0.1-	0.7+
1996 02 26	589	(5.1-	1.3+)	1996 03 19	589	(0.6-	4.8+)	2000 04 04	699	0.8+	0.2-
1996 02 27	589	(5.8-	1.0+)	2000 03 06	608	0.6-	0.6-				

1996 EP = 1998 VV₂₂ = 2000 GY₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	117.32143	(2000.0)	
<i>n</i>	0.26506969	ω	57.08425
<i>a</i>	2.4001000	Ω	1.35387
<i>e</i>	0.1886572	<i>i</i>	1.89286
<i>P</i>	3.72	<i>H</i>	14.4
Residuals in seconds of arc			
1996 03 14	817	(1.3+	3.1-)
1996 03 14	817	(1.1+	2.5-)
1996 03 14	817	(1.5+	2.4-)
1996 03 14	817	1.3+	1.6-
1996 03 16	709	0.2-	0.3-
1996 03 16	709	0.2-	0.6-
1996 03 16	709	0.2+	0.6-
1996 03 16	709	0.4-	0.1-
1996 03 16	709	0.6-	0.4-
1996 03 17	817	0.1-	0.1+
1996 03 17	817	0.2-	0.8+
1996 03 17	817	0.1+	0.3+
1996 03 18	566	0.2-	0.1+
1996 03 18	566	0.0	0.7+
1996 03 18	566	0.1-	0.4+
1998 08 31	704	1.3+	1.5+
1998 08 31	704	0.2-	1.4+
1998 08 31	704	0.5+	0.2-

Residuals in seconds of arc

1996 03 14	817	(1.3+	3.1-)	1998 08 31	704	1.4-	1.2+	1999 01 08	704	0.3+	0.4+
1996 03 14	817	(1.1+	2.5-)	1998 08 31	704	(5.0-	0.3+)	2000 04 05	704	0.7+	0.1+
1996 03 14	817	(1.5+	2.4-)	1998 10 18	699	0.4-	0.5+	2000 04 05	704	0.6+	0.2+
1996 03 14	817	1.3+	1.6-	1998 10 18	699	0.6-	0.4+	2000 04 05	704	0.5+	0.1+
1996 03 16	709	0.2-	0.3-	1998 10 18	699	0.4-	0.4+	2000 04 05	704	(2.4+	2.0-)
1996 03 16	709	0.2-	0.6-	1998 11 10	704	0.4+	0.1+	2000 04 05	704	0.2-	0.1-
1996 03 16	709	0.2+	0.6-	1998 11 10	704	0.0	0.5-	2000 04 06	704	0.1+	0.3+
1996 03 16	709	0.4-	0.1-	1998 11 10	704	0.4+	0.4-	2000 04 06	704	0.5-	0.3+
1996 03 16	709	0.6-	0.4-	1998 11 10	704	(1.4-	2.3-)	2000 04 06	704	0.1-	0.1-
1996 03 17	817	0.1-	0.1+	1998 11 11	704	0.1-	0.0	2000 04 06	704	0.1-	0.5+
1996 03 17	817	0.2-	0.8+	1998 11 11	704	0.7+	0.1-	2000 04 07	704	0.3-	0.1+
1996 03 17	817	0.1+	0.3+	1998 11 11	704	0.4-	0.7-	2000 04 07	704	0.6+	0.5+
1996 03 18	566	0.2-	0.1+	1998 11 11	704	0.4-	0.6-	2000 04 07	704	0.5+	0.6+
1996 03 18	566	0.0	0.7+	1998 11 11	704	0.3-	0.6-	2000 04 07	704	0.2+	0.6+
1996 03 18	566	0.1-	0.4+	1999 01 08	704	0.2-	0.9-	2000 04 10	704	0.2+	0.1-
1998 08 31	704	1.3+	1.5+	1999 01 08	704	0.9+	1.5+	2000 04 10	704	0.5+	0.1-
1998 08 31	704	0.2-	1.4+	1999 01 08	704	(2.6+	0.7-)	2000 04 10	704	0.5-	0.7+
1998 08 31	704	0.5+	0.2-	1999 01 08	704	0.7-	1.7+	2000 04 10	704	0.4-	0.8+

1996 EZ₁ = 2000 GD₁₀₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	186.25448	(2000.0)	
<i>n</i>	0.27106485	ω	196.57890
<i>a</i>	2.3645795	Ω	179.65185
<i>e</i>	0.1202798	<i>i</i>	6.91964
<i>P</i>	3.64	<i>H</i>	14.2
Residuals in seconds of arc			
1996 03 15	566	0.6+	0.3-
1996 03 15	566	0.5+	0.3-
1996 03 15	566	0.3+	0.2-
1996 03 19	566	0.4-	0.2+
1996 03 19	566	0.1-	0.2+
1996 03 19	566	0.3-	0.3+

Residuals in seconds of arc

1996 03 15	566	0.6+	0.3-	1996 03 26	566	0.3-	0.4+	2000 04 07	704	0.4-	1.4-
1996 03 15	566	0.5+	0.3-	1996 03 26	566	0.1-	0.3-	2000 04 07	704	0.9-	0.6-
1996 03 15	566	0.3+	0.2-	1996 03 26	566	0.3-	0.0	2000 04 08	704	0.8+	0.2+
1996 03 19	566	0.4-	0.2+	2000 04 07	704	0.9+	0.4-	2000 04 08	704	0.9+	1.8+
1996 03 19	566	0.1-	0.2+	2000 04 07	704	0.3-	1.0-	2000 04 08	704	0.2-	0.9+
1996 03 19	566	0.3-	0.3+	2000 04 07	704	0.8-	0.4+				

1996 EW₇ = 2000 GK₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	289.46041	(2000.0)	
<i>n</i>	0.26858908	ω	136.91754
<i>a</i>	2.3790879	Ω	153.40617
<i>e</i>	0.1753515	<i>i</i>	1.76016
<i>P</i>	3.67	<i>H</i>	16.1
Residuals in seconds of arc			
1993 07 12	809	0.3-	0.7+
1993 07 12	809	0.8-	0.1+
1993 07 12	809	0.9+	0.2+
1996 03 11	691	0.6-	0.3+
1996 03 11	691	0.5-	0.1+
1996 03 11	691	0.2-	0.3+
1996 03 18	691	0.4-	0.5+

Residuals in seconds of arc

1993 07 12	809	0.3-	0.7+	1996 03 18	691	0.2-	0.5+	2000 04 06	704	0.2+	0.7-
1993 07 12	809	0.8-	0.1+	1996 03 18	691	0.1+	0.5+	2000 04 06	704	0.8+	0.1+
1993 07 12	809	0.9+	0.2+	1996 03 26	691	1.5+	0.1+	2000 04 06	704	0.4-	0.0
1996 03 11	691	0.6-	0.3+	1996 03 26	691	1.1+	0.5-	2000 04 06	704	0.4-	1.0-
1996 03 11	691	0.5-	0.1+	2000 04 05	704	1.6-	0.2-	2000 04 06	704	0.4+	0.2+
1996 03 11	691	0.2-	0.3+	2000 04 05	704	0.7+	0.1-				
1996 03 18	691	0.4-	0.5+	2000 04 05	704	0.3-	0.2-				

1996 EP₁₀ = 2000 EN₁₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	274.62154	(2000.0)	
<i>n</i>	0.25644747	ω	279.14752
<i>a</i>	2.4536000	Ω	356.57601
<i>e</i>	0.1658536	<i>i</i>	2.45919
<i>P</i>	3.84	<i>H</i>	16.0
Residuals in seconds of arc			
1996 03 12	691	0.0	0.2+
1996 03 12	691	0.1+	0.2+
1996 03 12	691	0.3+	0.0
1996 03 17	691	0.5-	0.2+
1996 03 17	691	0.1+	0.2-
1996 03 17	691	0.0	0.2-

Residuals in seconds of arc

1996 03 12	691	0.0	0.2+	1996 03 24	691	0.3+	0.6+	2000 03 11	704	0.0	0.2+
1996 03 12	691	0.1+	0.2+	1996 03 24	691	0.1-	0.5-	2000 03 11	704	0.1-	0.1-
1996 03 12	691	0.3+	0.0	1996 03 24	691	0.3-	0.1-	2000 03 14	703	1.7+	0.2-
1996 03 17	691	0.5-	0.2+	2000 03 11	704	0.4-	0.7-	2000 03 14	703	0.5+	0.3-
1996 03 17	691	0.1+	0.2-	2000 03 11	704	1.2-	0.1-	2000 03 14	703	0.1+	0.6+
1996 03 17	691	0.0	0.2-	2000 03 11	704	0.3+	0.1-	2000 03 14	703	0.7-	0.7+

1996 FD = 2000 GO₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	56.53930		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24149050	ω	94.99690	-0.58635149	-0.79924514
a	2.5538929	Ω	32.08297	+0.60929391	-0.54244988
e	0.1291718	i	14.37939	+0.53380976	-0.25875729
P	4.08	H	13.6	G 0.15	U 2

1996 03 21	566	0.7−	0.4−	1999 02 06	704	0.5+	0.8+	2000 04 07	704	0.3−	1.1+
1996 03 21	566	0.3−	0.4−	1999 02 06	704	0.1+	0.9−	2000 04 07	704	1.8+	0.7+
1996 03 21	566	0.1−	0.6−	1999 02 06	704	0.3+	0.3−	2000 04 07	143	0.2+	0.1−
1996 03 23	566	0.2−	0.7−	1999 02 06	704	1.2−	0.3+	2000 04 07	143	0.7+	0.2−
1996 03 23	566	0.4−	0.5−	1999 02 06	704	1.0−	1.1−	2000 04 07	143	0.5+	0.5−
1996 03 23	566	0.1−	0.6−	2000 04 05	704	0.7−	0.2+	2000 04 07	143	0.9+	0.0
1996 03 23	566	0.2−	0.8−	2000 04 05	704	0.1−	0.3+	2000 04 07	143	0.9+	0.0
1996 03 23	566	0.3−	0.5−	2000 04 05	704	0.1−	0.5+	2000 04 07	143	1.0+	0.2+
1996 03 23	566	0.1−	0.9−	2000 04 05	704	0.1+	0.2+	2000 04 08	691	0.2−	0.1−
1996 03 25	608	0.4−	0.7−	2000 04 05	704	0.2+	0.4+	2000 04 08	691	0.1−	0.0
1996 03 25	608	0.1−	0.9−	2000 04 06	704	0.0	0.3+	2000 04 08	691	0.2−	0.1−
1996 04 09	608	0.2+	0.0	2000 04 06	704	0.0	0.4+				

1996 FZ = 1993 SV₄ = 2000 DJ₂₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.37993		(2000.0)	P	Q
<i>n</i>	0.22210177	ω	358.62297	+0.77241339	+0.63500564
<i>a</i>	2.7004410	Ω	321.94788	−0.58252415	+0.70075545
<i>e</i>	0.0846740	<i>i</i>	1.12091	−0.25306752	+0.32513017
<i>P</i>	4.44	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 09 19	010	(0.5+ 3.3+)	1998 11 18	704	0.8+	0.9−	2000 02 27	691	0.4−	0.2−
1993 09 19	010	0.9− 1.9+	1998 11 18	704	1.0+	1.6−	2000 02 27	703	0.2−	0.8+
1993 09 20	010	(1.2+ 2.9+)	1998 11 18	704	(0.6+ 2.2−)	0.8−	2000 02 27	703	0.6−	0.8−
1993 09 20	010	(0.8+ 2.4+)	1998 11 18	704	0.8−	0.5−	2000 02 27	691	0.2+	0.9−
1993 09 20	010	0.7− 1.4+	2000 01 30	703	0.7−	0.4−	2000 02 27	703	0.8−	0.4+
1996 03 18	566	0.3− 1.7−	2000 01 30	703	0.4−	0.5+	2000 02 27	703	0.8+	0.2+
1996 03 18	566	0.0 1.6−	2000 01 30	703	(1.1− 2.0+)	0.2+	2000 02 29	704	0.3+	0.9+
1996 03 18	566	0.7− 0.8−	2000 01 30	703	0.6−	0.1+	2000 02 29	704	0.3+	0.3+
1996 03 18	566	0.2− 1.6−	2000 02 03	691	0.1−	0.3−	2000 02 29	704	0.2+	0.4+
1996 03 18	566	0.5− 1.5−	2000 02 03	691	0.0	0.2−	2000 02 29	704	0.0	0.5+
1996 03 18	566	0.2− 0.8−	2000 02 03	691	0.0	0.3−	2000 03 03	704	0.2+	0.6+
1996 03 20	566	0.0 0.1−	2000 02 04	704	0.0	0.3+	2000 03 03	704	0.5+	0.9+
1996 03 20	566	0.2− 0.3−	2000 02 04	704	0.7+	0.5+	2000 03 03	704	0.4+	1.1+
1996 03 20	566	0.1− 0.1−	2000 02 04	704	0.1−	0.6−	2000 03 03	704	0.3+	1.3+
1996 03 26	566	0.2− 0.1+	2000 02 04	704	0.1+	0.2−	2000 03 03	704	0.8+	1.2+
1996 03 26	566	0.5− 0.0	2000 02 04	704	(0.9+ 2.1+)	0.0	2000 03 03	691	0.0	0.0
1996 03 26	566	0.6− 0.4+	2000 02 04	691	0.6−	0.1−	2000 03 03	691	0.2−	1.1−
1998 10 19	699	0.1+ 0.3+	2000 02 04	691	0.6−	0.2−	2000 03 03	691	0.0	0.1+
1998 10 19	699	0.1− 0.5+	2000 02 04	691	0.4−	0.5−	2000 03 05	704	0.2−	1.2+
1998 10 19	699	0.2− 0.3−	2000 02 11	704	0.3+	0.5+	2000 03 05	704	0.5+	0.8+
1998 11 11	704	0.1+ 1.1−	2000 02 11	704	0.6+	0.4+	2000 03 05	704	0.7+	0.0
1998 11 11	704	0.1− 1.1−	2000 02 11	704	0.4+	0.4+	2000 03 05	704	0.4+	0.4+
1998 11 11	704	(0.3− 2.2−)	2000 02 11	704	1.1+	0.6+	2000 03 05	704	0.5+	0.2−
1998 11 11	704	0.3+ 1.7−	2000 02 11	704	0.3+	1.7+				
1998 11 18	704	0.7+ 0.4+	2000 02 27	691	0.6−	0.2+				

1996 FK₄ = 2000 GA₇₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	359.94329		(2000.0)	P	Q
<i>n</i>	0.26790578	ω	191.60322	−0.95668733	+0.29111018
<i>a</i>	2.3831314	Ω	5.32254	−0.26529463	−0.86890410
<i>e</i>	0.1226122	<i>i</i>	1.26710	−0.11986702	−0.40032553
<i>P</i>	3.68	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 12 02	691	0.2+ 1.2+	1996 03 24	691	1.1+	0.3−	2000 04 05	704	0.1−	0.3+
1994 12 02	691	0.5− 0.4+	1996 03 24	691	0.6+	0.5−	2000 04 05	704	0.4−	0.5+
1994 12 02	691	0.6− 0.3+	1996 03 24	691	0.4+	0.6−	2000 04 06	704	0.7+	0.5−
1996 03 17	691	0.7− 0.0	1996 03 24	608	0.2−	0.1−	2000 04 06	704	0.1−	0.3−
1996 03 17	691	0.4− 0.1−	1996 03 24	608	0.1+	0.2−	2000 04 06	704	0.4+	0.6+
1996 03 17	691	0.4− 0.1+	1996 03 25	608	0.5+	0.2+	2000 04 06	704	0.2−	0.8+
1996 03 23	608	0.9− 0.9+	1996 03 25	608	0.5+	0.2−				
1996 03 23	608	0.7− 0.5+	2000 04 05	704	0.3+	0.3+				

1996 GC₂ = 1999 AU₁₀ = 2000 AE₂₂₉

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.60726		(2000.0)	P	Q
<i>n</i>	0.18251170	ω	155.54011	−0.62796115	+0.77805229
<i>a</i>	3.0780493	Ω	75.55532	−0.71693631	−0.56969866
<i>e</i>	0.2359112	<i>i</i>	1.02387	−0.30276578	−0.26472264
<i>P</i>	5.40	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1996 04 09	894	0.9− 0.9+	1999 01 07	691	0.5−	0.3−	1999 12 07	704	0.1−	0.2+
1996 04 09	894	1.0+ 0.0	1999 01 15	691	0.5+	0.6−	1999 12 07	704	0.4+	0.4+
1996 04 11	894	0.3+ 0.1−	1999 01 15	691	1.5+	0.3−	1999 12 07	704	0.2−	0.4+
1996 04 11	894	0.2− 0.6−	1999 01 15	691	0.8+	0.0	1999 12 07	704	0.7−	0.8+
1996 04 21	566	0.3− 0.2−	1999 11 09	704	0.6+	0.0	2000 01 03	691	0.3+	0.4−
1996 04 21	566	0.2− 0.2−	1999 11 09	704	0.3−	0.6−	2000 01 03	691	0.5+	0.1−
1996 04 21	566	0.1+ 0.3−	1999 11 09	704	0.4−	0.7+	2000 01 03	691	0.4+	0.3−
1997 07 08	688	0.0 0.2+	1999 11 09	704	0.1+	1.0+	2000 01 05	704	0.6−	0.7−
1997 07 08	688	0.2− 0.2+	1999 11 16	704	1.0+	0.1−	2000 01 05	704	0.3−	0.8−
1999 01 07	691	0.8− 0.6−	1999 11 16	704	1.0+	0.7+	2000 01 05	704	0.1−	0.4−
1999 01 07	691	0.4− 0.5−	1999 11 16	704	1.0−	0.5+	2000 01 05	704	0.4−	0.1−

1996 GO₁₇ = 1998 UU₃₈ = 2000 BA₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	237.68279		(2000.0)	P	Q
<i>n</i>	0.18317566	ω	200.70376	−0.57404161	+0.80116543
<i>a</i>	3.0706068	Ω	34.89403	−0.70353057	−0.37688353
<i>e</i>	0.0895741	<i>i</i>	17.19818	−0.41895223	−0.46485778
<i>P</i>	5.38	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 04 15	809	(2.2− 1.5+)	1998 10 29	704	0.1−	0.0	2000 01 21	704	1.8+	0.9−
1996 04 15	809	1.1− 0.1+	1998 10 29	704	0.2+	0.8+	2000 01 21	704	0.7−	1.0−
1996 04 15	809	1.0− 1.0+	1998 10 29	704	0.5−	1.6+	2000 01 21	704	0.2+	0.5+
1996 04 17	809	1.5+ 1.3+	1998 10 29	704	0.9−	0.3+	2000 01 26	402	0.2−	0.6−
1996 04 17	809	1.1+ 1.2+	1998 10 29	704	1.2−	0.1−	2000 01 26	402	0.1+	0.6−
1996 04 17	809	1.1+ 1.4+	1998 11 10	704	0.2+	0.3+	2000 01 26	402	0.1+	0.1−
1996 05 13	566	0.5− 0.5+	1998 11 10	704	0.4+	0.4+	2000 01 26	402	0.0	0.2−
1996 05 13	566	0.6− 0.4+	1998 11 10	704	0.5+	1.5+	2000 01 26	402	0.1−	0.2−
1996 05 13	566	0.7− 0.0	1998 11 10	704	0.6−	1.0+	2000 01 28	402	0.3−	0.3+
1996 05 15	566	0.7+ 0.2−	1999 12 13	704	0.2−	0.0	2000 01 28	402	0.2−	0.2−
1996 05 15	566	0.8+ 0.4−	1999 12 13	704	0.2+	0.0	2000 01 28	402	0.4−	0.1−
1996 05 15	566	0.8+ 0.6+	1999 12 13	704	0.5+	0.7+	2000 01 28	402	0.1−	0.1−
1996 05 15	566	1.0+ 0.2−	1999 12 13	704	0.0	0.5+	2000 03 04	704	0.5+	0.0
1996 05 15	566	0.4+ 0.6+	1999 12 13	704	0.4+	0.7+	2000 03 04	704	0.0	0.4−
1996 05 15	566	0.6+ 0.9−	1999 12 30	704	0.3−	0.1−	2000 03 04	704	0.0	0.2−
1998 10 28	704	1.4− 0.4+	1999 12 30	704	0.7−	0.1+	2000 03 04	704	0.7+	0.6+
1998 10 28	704	(2.1− 0.5+)	1999 12 30	704	0.3−	0.1+	2000 03 04	704	0.7−	0.0
1998 10 28	704	0.2− 1.3−	1999 12 30	704	0.2−	0.8+				
1998 10 28	704	0.6− 0.5+	1999 12 30	704	0.3+	0.8+				

1996 GU₁₇ = 2000 GR₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	306.96627		(2000.0)	P	Q
<i>n</i>	0.24255606	ω	224.85690	−0.24661422	+0.96551749
<i>a</i>	2.5464078	Ω	31.14797	−0.83775534	−0.16912791
<i>e</i>	0.1175502	<i>i</i>	9.27995	−0.48718313	−0.19791846
<i>P</i>	4.06	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 03 24	809	(2.8+ 4.5+)	1996 05 15	566	1.2+	0.9+	2000 04 0

2000 APR. 18

M.P.C. 39967

1996 03 27	809	1.4+	1.8+	1999 01 16	704	0.7−	0.6−	2000 04 07	704	0.4−	0.1−
1996 03 27	809	0.1−	1.5+	1999 01 16	704	1.6+	1.2+	2000 04 07	704	0.1+	0.4−
1996 04 15	809	(1.7−	2.7−)	1999 01 16	704	1.0−	0.9+	2000 04 07	699	0.4−	0.3+
1996 04 15	809	(1.9−	2.3−)	2000 02 08	704	0.3−	0.2−	2000 04 07	704	0.3+	0.0
1996 04 15	809	1.7−	1.9−	2000 02 08	704	1.7−	0.7−	2000 04 07	699	0.4−	0.1−
1996 04 17	809	0.5−	0.2+	2000 02 08	704	0.0	0.3−	2000 04 07	699	0.9−	0.0
1996 04 17	809	0.5−	0.4−	2000 04 05	704	0.4+	0.2−	2000 04 07	704	0.1+	0.2−
1996 04 17	809	0.4−	0.7−	2000 04 05	704	0.3+	0.0	2000 04 07	699	0.4−	0.3−
1996 05 13	566	0.3−	0.3−	2000 04 05	704	0.3+	0.3+	2000 04 07	704	0.3+	0.2−
1996 05 13	566	0.6−	0.4−	2000 04 05	704	0.5+	0.5+				
1996 05 13	566	0.2−	0.6−	2000 04 06	704	0.8+	0.1−				

1996 GO₁₉ = 2000 GB₅₃

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	347.83186	(2000.0)		P		Q	
<i>n</i>	0.24306137	ω	355.47085	−0.89225287		+0.44718071	
<i>a</i>	2.5428774	Ω	211.33355	−0.41040546		−0.86093243	
<i>e</i>	0.1130751	<i>i</i>	6.91003	−0.18828748		−0.24253816	
<i>P</i>	4.05	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 04 25	691	0.4+	1.8+	2000 03 14	704	1.1+	0.1+	2000 04 07	699	0.4−	0.8+
1992 04 25	691	0.0	1.2+	2000 03 14	704	0.9+	1.3+	2000 04 07	704	0.1+	0.1+
1992 04 25	691	0.2−	1.8+	2000 03 14	704	0.6+	1.4+	2000 04 07	699	0.8−	0.7+
1996 03 24	809	0.6−	1.0−	2000 04 05	704	0.3+	0.3+	2000 04 07	691	0.0	0.6−
1996 03 24	809	0.8−	1.7−	2000 04 05	704	0.2−	0.5+	2000 04 07	704	0.4−	0.5+
1996 03 24	809	1.3−	1.5−	2000 04 05	704	0.2+	0.1+	2000 04 07	704	0.3−	0.9+
1996 03 27	809	0.5−	0.2+	2000 04 05	704	0.2+	0.1−	2000 04 07	704	0.4−	0.7+
1996 03 27	809	0.0	1.2−	2000 04 05	704	0.1−	0.0	2000 04 08	704	0.6+	0.5+
1996 03 27	809	(1.5−	2.5−)	2000 04 06	704	0.5−	0.2+	2000 04 08	704	0.2−	0.3+
1996 04 15	809	1.2+	1.2−	2000 04 06	704	0.2−	0.1+	2000 04 08	704	0.1−	0.0
1996 04 15	809	0.3+	0.8−	2000 04 06	704	0.1−	0.1+	2000 04 10	704	0.3−	0.1+
1996 04 15	809	1.0+	1.5−	2000 04 06	704	0.2−	0.3+	2000 04 10	704	0.0	0.2−
1996 04 17	809	0.1−	0.2+	2000 04 07	691	0.0	0.5−	2000 04 10	704	0.5+	0.2−
1996 04 17	809	0.3−	1.7−	2000 04 07	699	0.1−	0.2+	2000 04 10	704	0.1−	0.6−
1996 04 17	809	0.2−	1.2−	2000 04 07	699	0.4−	0.2+	2000 04 11	608	0.4+	0.2+
2000 03 14	704	0.4+	0.2−	2000 04 07	691	0.0	0.4−	2000 04 11	608	0.2+	0.3−
2000 03 14	704	0.2+	0.2+	2000 04 07	704	0.0	0.0	2000 04 11	608	0.2+	0.0

1996 HO₁ = 2000 EP₁₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	239.54989	(2000.0)		P		Q	
<i>n</i>	0.22388741	ω	135.48413	+0.38222435		+0.92344490	
<i>a</i>	2.6860634	Ω	156.92330	−0.87015319		+0.37205337	
<i>e</i>	0.0687187	<i>i</i>	4.97208	−0.31102729		+0.09394579	
<i>P</i>	4.40	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 19	552	0.0	0.1+	2000 03 03	704	0.1−	0.0	2000 03 11	704	0.4+	0.7+
1996 04 19	552	0.7−	0.0	2000 03 03	704	0.2−	0.1−	2000 03 11	704	0.5+	0.2+
1996 04 20	552	0.6−	0.0	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.8+	0.9+
1996 04 20	552	0.8−	0.4+	2000 03 03	704	0.1+	0.6+	2000 04 01	552	0.5+	0.6−
1996 05 10	691	0.1−	0.3+	2000 03 03	704	0.3+	0.3+	2000 04 01	552	0.8−	1.3−
1996 05 10	691	0.2−	0.2+	2000 03 06	608	0.8−	0.2−	2000 04 01	552	0.0	1.1−
1996 05 10	691	0.3−	0.3−	2000 03 06	608	0.6−	0.8−	2000 04 02	699	0.1−	0.7+
1996 05 15	691	1.3+	0.2−	2000 03 06	608	0.3−	0.9−	2000 04 02	699	0.3−	0.2−
1996 05 15	691	0.9+	0.0	2000 03 11	704	1.0+	0.7+	2000 04 02	699	0.5−	0.2+
1996 05 15	691	0.8+	0.3−	2000 03 11	704	0.3+	0.1−	2000 04 02	699	0.5−	0.4+

1996 HP₄ = 2000 EB₁₀₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	280.14131	(2000.0)		P		Q	
<i>n</i>	0.24294470	ω	233.42054	+0.10656423		+0.98927510	
<i>a</i>	2.5436915	Ω	43.03700	−0.85910612		+0.14218784	
<i>e</i>	0.1348879	<i>i</i>	8.41670	−0.50058040		−0.03342740	
<i>P</i>	4.06	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 11	691	0.8−	0.7−	2000 03 08	704	0.0	0.3−	2000 04 04	704	0.3−	0.5+
1996 04 11	691	0.6−	0.9−	2000 03 08	704	1.5+	0.4+	2000 04 04	704	0.3+	0.7+
1996 04 11	691	0.6−	0.7−	2000 03 08	704	0.9+	1.0+	2000 04 04	704	0.2−	0.1+
1996 04 18	691	0.9−	0.1−	2000 03 11	699	0.1−	0.0	2000 04 04	704	0.2+	0.1+
1996 04 18	691	0.8−	0.1+	2000 03 11	699	0.6−	0.6−	2000 04 05	704	0.1−	0.4+
1996 04 18	691	0.8−	0.2−	2000 03 11	699	0.1−	0.4−	2000 04 05	704	0.7+	0.3+
1996 04 23	691	1.0+	0.1−	2000 03 11	699	0.1−	0.5−	2000 04 05	704	0.3−	0.6+
1996 04 23	691	0.9+	0.1−	2000 03 29	704	0.2−	0.3−	2000 04 05	704	0.1−	0.1+
1996 04 23	691	1.1+	0.1−	2000 03 29	704	0.1−	0.2−	2000 04 05	704	0.3+	0.2+
1998 12 17	704	1.1+	1.7+	2000 03 29	704	0.3−	0.0	2000 04 08	704	0.4+	0.1+
1998 12 17	704	1.0+	0.2−	2000 03 29	704	0.1−	0.1+	2000 04 08	704	0.2+	0.1−
1998 12 17	704	0.1−	1.4−	2000 03 29	704	0.6−	0.0	2000 04 08	704	0.6+	0.4+
1998 12 17	704	2.0−	0.6−	2000 04 02	699	0.4−	0.1−	2000 04 08	704	0.7+	0.5+
1998 12 17	704	(2.5−	0.2+)	2000 04 02	699	0.9−	0.1−	2000 04 08	704	0.9+	0.5−
2000 03 08	704	0.1+	0.5+	2000 04 02	699	0.3−	0.1−				
2000 03 08	704	0.1+	0.3−	2000 04 02	699	0.4−	0.0				

1996 HJ₈ = 1998 SG₁₂₂ = 2000 GK₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	48.60583	(2000.0)		P		Q	
<i>n</i>	0.23503874	ω	245.19187	−0.40744533		−0.91200178	
<i>a</i>	2.6004175	Ω	228.93733	+0.85890856		−0.36508269	
<i>e</i>	0.2070709	<i>i</i>	3.59972	+0.31026503		−0.18699568	
<i>P</i>	4.19	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 04 17	809	0.2−	1.1+	1998 10 28	704	(2.4−	1.3−)	2000 04 06	699	0.2−	0.0
1996 04 17	809	0.3+	0.7+	1998 10 28	704	0.7−	0.6+	2000 04 07	704	0.2−	0.0
1996 04 17	809	0.1−	0.4+	1998 10 28	704	(2.5−	0.5−)	2000 04 07	704	0.4−	0.4+
1996 04 18	809	0.3+	0.2+	1998 10 28	704	0.8−	1.2+	2000 04 07	704	0.1−	0.2+
1996 04 18	809	0.4−	0.5−	1998 10 29	704	(6.7−	4.0−)	2000 04 07	704	0.2−	0.6−
1996 04 18	809	0.5+	0.3−	1998 10 29	704	(7.0−	1.1−)	2000 04 07	704	0.1−	1.1+
1996 05 13	566	(1.2−	3.7−)	1998 10 29	704	(6.4−	2.0−)	2000 04 08	704	0.1−	0.1+
1996 05 13	566	(0.9−	4.1−)	1998 10 29	704	(5.8−	2.9−)	2000 04 08	704	0.5−	0.0
1996 05 13	566	(1.6−	4.0−)	1998 10 29	704	(6.7−	3.4−)	2000 04 08	704	0.3+	0.3+
1998 09 26	704	0.2+	1.5−	2000 04 02	699	0.1−	0.3+	2000 04 08	704	0.4−	0.0
1998 09 26	704	0.5+	0.7−	2000 04 02	699	0.3+	0.2+	2000 04 08	704	0.1+	0.1−
1998 09 26	704	0.2−	1.3−	2000 04 02	699	0.2+	0.2+	2000 04 10	704	0.8−	0.1+
1998 09 26	704	0.0	0.8−	2000 04 02	699	0.0	0.1+	2000 04 10	704	0.2−	0.1−
1998 09 26	704	0.8+	0.1−	2000 04 03	699	0.2−	0.1−	2000 04 10	704	0.5+	0.5−
1998 09 27	704	1.0+	0.1+	2000 04 03	699	0.0	0.3+	2000 04 10	704	0.8+	0.2−
1998 09 27	704	0.4+	1.4+	2000 04 03	699	0.2−	0.3+	2000 04 10	704	0.7+	0.6−
1998 09 27	704	0.3−	1.6+	2000 04 03	699	0.2−	0.3+	2000 04 11	691	0.5+	0.7−
1998 09 27	704	(1.2+	2.1+)	2000 04 06	699	0.2−	0.2+	2000 04 11	691	0.4+	0.6−
1998 09 27	704	0.2+	0.4+	2000 04 06	699	0.1−	0.1−	2000 04 11	691	0.5+	0.7−
1998 10 28	704	1.4−	0.5+	2000 04 06	699	0.2−	0.0				

1996 HW₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

|--|--|--|

Residuals in seconds of arc

1996 03 24	809	0.2+	0.4-	1996 06 10	809	0.8+	0.8-	2000 04 07	704	0.6+	0.0
1996 03 24	809	0.9-	0.8+	1996 06 10	809	0.7+	1.6-	2000 04 07	699	0.0	0.6-
1996 03 24	809	1.1-	0.5-	1996 06 10	809	0.1+	0.8-	2000 04 07	704	0.3-	0.4-
1996 04 17	809	(1.6+	2.6+)	1997 12 29	688	0.1+	0.1-	2000 04 07	704	0.4+	0.1+
1996 04 17	809	(1.9+	2.5+)	1997 12 29	688	0.0	0.2+	2000 04 07	704	0.2-	1.5+
1996 04 17	809	1.1+	1.7+	2000 04 02	699	0.4-	0.1+	2000 04 07	704	1.1+	1.0+
1996 04 18	809	0.9-	0.8+	2000 04 02	699	0.7-	0.1+	2000 04 10	704	(2.2-	0.2-)
1996 04 18	809	0.0	0.3+	2000 04 02	699	0.4-	0.2+	2000 04 10	704	0.1-	0.0
1996 04 18	809	0.1+	1.1+	2000 04 02	699	0.8-	0.4-	2000 04 10	704	0.7-	0.5-
1996 06 08	809	0.5+	0.0	2000 04 07	699	1.3+	0.7-	2000 04 10	704	0.5-	0.2-
1996 06 08	809	0.2-	0.2-	2000 04 07	699	0.1+	1.4-				
1996 06 08	809	0.3-	0.2+	2000 04 07	699	0.3+	0.0				

1996 HM₁₀ = 2000 EM₉₃

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	37.54361	(2000.0)		P	Q		
<i>n</i>	0.22694447	ω	258.46334	-0.37593825	-0.91886381		
<i>a</i>	2.6618872	Ω	214.39993	+0.91118903	-0.34304350		
<i>e</i>	0.2212222	<i>i</i>	12.24574	+0.16853779	-0.19496269		
<i>P</i>	4.34	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 04 17	809	(4.3-	0.4-)	1998 09 29	704	0.4+	1.0+	2000 03 09	704	0.2+	0.0
1996 04 17	809	(4.8-	0.2-)	1998 09 29	704	1.4+	0.3-	2000 03 09	704	0.9+	0.2+
1996 04 17	809	(4.8-	0.6-)	1998 10 14	699	(0.3-	2.2-)	2000 03 09	704	0.8+	0.5+
1996 04 18	809	(0.5-	4.3+)	1998 10 14	699	0.9+	0.2-	2000 03 13	704	0.8+	1.1-
1996 04 18	809	(1.2-	3.2+)	1998 10 14	699	1.4-	0.6-	2000 03 13	704	0.4+	0.1-
1996 04 18	809	(0.1-	3.4+)	2000 01 11	704	0.0	0.7+	2000 03 13	704	0.1+	0.3-
1996 06 08	809	0.5+	0.1-	2000 01 11	704	0.2-	0.4+	2000 03 13	704	0.2+	0.3+
1996 06 08	809	0.3+	1.1-	2000 01 11	704	0.3-	0.3-	2000 03 13	704	0.1+	0.0
1996 06 08	809	(1.4+	2.1-)	2000 01 11	704	0.5-	0.2-	2000 03 26	428	0.6-	0.9-
1996 06 10	809	0.0	1.3+	2000 01 11	704	0.0	0.2-	2000 03 26	428	0.9-	0.5-
1996 06 10	809	0.2-	0.4+	2000 03 06	608	0.3-	0.4-	2000 04 07	704	1.0-	1.2+
1996 06 10	809	0.6-	0.3-	2000 03 06	608	0.3-	0.2-	2000 04 07	704	1.2-	1.1+
1998 09 29	704	1.8-	1.2+	2000 03 06	608	0.5-	0.6-	2000 04 07	704	1.4-	1.3+
1998 09 29	704	0.1+	0.4-	2000 03 09	704	1.1+	0.5+	2000 04 07	704	1.5+	0.0
1998 09 29	704	0.1+	1.2+	2000 03 09	704	0.2+	0.2+	2000 04 07	704	1.0+	0.1+

1996 HX₁₂ = 2000 GP₅₃

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	280.81727	(2000.0)		P	Q		
<i>n</i>	0.24031917	ω	92.10620	+0.41871416	+0.90708301		
<i>a</i>	2.5621847	Ω	202.80065	-0.87130896	+0.38783250		
<i>e</i>	0.1853491	<i>i</i>	6.42214	-0.25592801	+0.16366543		
<i>P</i>	4.10	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 05 02	809	1.4+	0.8-	1996 05 20	691	0.1+	0.0	2000 04 05	704	0.4+	0.1-
1992 05 02	809	0.4-	0.4-	1996 05 20	691	0.0	0.3+	2000 04 05	704	0.4+	0.6+
1992 05 02	809	1.1-	0.2-	1996 06 08	809	0.2+	1.1+	2000 04 05	704	0.1+	0.1+
1996 03 23	566	1.0+	1.8-	1996 06 08	809	0.0	1.2+	2000 04 05	704	0.2+	0.1+
1996 03 23	566	0.8+	1.6-	1996 06 08	809	0.6-	1.4+	2000 04 07	699	0.2-	0.2+
1996 03 23	566	1.0+	1.3-	1996 06 10	809	1.5+	0.1-	2000 04 07	699	0.3-	0.3+
1996 04 17	809	0.2+	0.9+	1996 06 10	809	1.6+	1.0-	2000 04 07	704	0.3+	0.2-
1996 04 17	809	0.4+	0.9+	1996 06 10	809	(2.4+	1.3-)	2000 04 07	699	0.2-	0.1+
1996 04 17	809	0.0	0.3-	2000 03 14	704	0.7+	0.0	2000 04 07	704	0.7-	0.2-
1996 04 18	809	(2.9-	0.9+)	2000 03 14	704	0.4+	0.9+	2000 04 07	699	0.0	0.6+
1996 04 18	809	1.2-	0.8+	2000 03 14	704	0.3+	0.7+	2000 04 07	704	0.2-	0.1-
1996 04 18	809	1.6-	0.6+	2000 03 14	704	0.3+	0.1+	2000 04 07	704	0.1+	0.4-
1996 05 17	691	1.1-	0.5-	2000 04 03	691	0.4-	0.4-	2000 04 07	704	0.2+	1.1-
1996 05 17	691	1.2-	0.3-	2000 04 03	691	0.5-	0.4-	2000 04 11	608	0.0	0.3+
1996 05 17	691	0.8-	0.5-	2000 04 03	691	0.6-	0.3-	2000 04 11	608	0.1+	0.2+
1996 05 20	691	0.3+	0.6-	2000 04 05	704	0.2+	0.4+	2000 04 11	608	0.0	0.3+

1996 HO₁₃ = 2000 GA₅₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	291.10520	(2000.0)		P	Q		
<i>n</i>	0.24096340	ω	63.77235	+0.10535088	+0.99388256		
<i>a</i>	2.5576159	Ω	212.32818	-0.93306569	+0.08726661		
<i>e</i>	0.1088961	<i>i</i>	3.55356	-0.34393258	+0.06769039		
<i>P</i>	4.09	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 22	809	1.1+	0.9-	1996 05 22	809	(2.0-	2.6+)	2000 04 07	704	0.5-	0.0
1993 10 22	809	0.7+	0.7-	2000 04 05	704	0.1-	0.0	2000 04 07	699	0.3-	0.4+
1993 10 22	809	1.3-	0.1+	2000 04 05	704	0.1-	0.2+	2000 04 07	691	0.2+	0.5-
1996 04 17	809	0.2-	0.9+	2000 04 05	704	0.2-	0.1+	2000 04 07	704	0.2-	0.3+
1996 04 17	809	0.0	0.7+	2000 04 05	704	0.0	0.6+	2000 04 07	699	0.1-	0.0
1996 04 17	809	0.1+	0.9+	2000 04 05	704	0.1-	0.8+	2000 04 07	691	0.4+	0.6-
1996 04 18	809	0.9+	1.3-	2000 04 06	704	0.4+	0.1+	2000 04 07	704	0.8-	0.3+
1996 04 18	809	0.5+	1.2-	2000 04 06	704	0.3+	0.3-	2000 04 07	704	0.3-	0.7-
1996 04 18	809	0.2+	1.0-	2000 04 06	704	0.1+	0.3-	2000 04 07	704	0.2-	0.7-
1996 05 19	809	0.8-	0.7+	2000 04 06	704	0.2+	0.8-	2000 04 08	704	0.5-	0.2+
1996 05 19	809	0.4-	0.0	2000 04 06	704	1.5+	1.7-	2000 04 08	704	0.8-	0.6+
1996 05 19	809	0.4-	0.6+	2000 04 07	699	0.0	0.0	2000 04 08	704	0.8-	0.4+
1996 05 22	809	(1.4-	2.7+)	2000 04 07	691	0.4+	0.6-	2000 04 08	704	1.0+	0.1+
1996 05 22	809	(1.8-	3.3+)	2000 04 07	699	0.1+	0.0	2000 04 08	704	0.0	0.6+

1996 HX₁₄ = 2000 EY₁₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	337.74032	(2000.0)		P	Q		
<i>n</i>	0.22259681	ω	145.13262	-0.97209234	+0.22691612		
<i>a</i>	2.6964358	Ω	48.09814	-0.22930259	-0.86540718		
<i>e</i>	0.0177173	<i>i</i>	4.58867	-0.04956609	-0.44674320		
<i>P</i>	4.43	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 17	809	0.2-	0.9+	2000 02 11	704	0.5-	0.2+	2000 04 02	699	0.3-	0.1-
1996 04 17	809	0.6+	0.5+	2000 02 26	703	1.0-	0.9-	2000 04 02	699	0.1-	0.2-
1996 04 17	809	0.3+	0.7+	2000 02 26	703	1.1-	0.5+	2000 04 02	699	0.2-	0.1-
1996 04 18	809	0.9+	0.6-	2000 02 26	703	1.3+	0.3+	2000 04 02	699	0.1+	0.4+
1996 04 18	809	0.5+	0.1-	2000 02 26	703	1.9+	0.1+	2000 04 03	704	0.0	0.4+
1996 04 18	809	1.1+	0.5-	2000 03 02	703	0.8+	0.4-	2000 04 03	704	0.1+	0.0
1996 05 16	566	1.4-	0.6+	2000 03 02	703	0.0	1.2-	2000 04 03	704	0.4-	1.1+
1996 05 16	566	1.4-	1.3+	2000 03 02	703	0.7-	0.3+	2000 04 03	704	0.4-	0.7+
1996 05 16	566	1.2-	1.0+	2000 03 02	703	1.0+	0.1+	2000 04 03	704	0.3+	1.1+
1996 05 19	809	1.1+	0.1-	2000 03 11	699	1.0-	0.0	2000 04 08	704	0.1+	0.2-
1996 05 19	809	1.3+	0.3-	2000 03 11	699	0.5-	0.3-	2000 04 08	704	0.5-	0.9+
1996 05 19	809	1.0+	1.4-	2000 03 11	699	0.5-	0.3-	2000 04 08	704	0.9+	0.4-
1996 05 22	809	0.4-	0.8-	2000 03 11	699	0.7-	0.0	2000 04 08	704	0.9+	0.1+
1996 05 22	809	1.1-	0.7-	2000 03 12	704	0.7-	0.1-	2000 04 08	704	0.1+	0.9-
1996 05 22	809	1.0-	0.5-	2000 03 12	704	0.8-	0.3+	2000 04 10	704	0.2+	0.1-
2000 02 11	704	0.7+	0.0	2000 03 12	704	0.6-	0.1-	2000 04 10	704	1.1+	0.4-
2000 02 11	704	0.2+	0.2-	2000 03 12	704	0.9-	0.4+	2000 04 10	704	0.6+	0.3+
2000 02 11	704	2.0+	0.1-	2000 03 12	704	0.5-	0.6-	2000 04 10	704	0.6-	0.5-

1996 HB₁₅ = 2000 DX₁₀₁

2000 APR. 18

M.P.C. 39969

1996 04 17	809	1.1−	0.2−	2000 02 04	704	1.1+	0.3+	2000 03 05	704	0.5+	0.2+
1996 04 18	809	0.1+	1.1+	2000 02 04	704	0.9+	0.0	2000 03 05	704	0.4−	0.3−
1996 04 18	809	1.2+	0.9+	2000 02 29	704	0.0	0.6+	2000 03 05	704	1.8−	0.7+
1996 04 18	809	0.8+	0.2−	2000 02 29	704	0.5−	0.9+	2000 03 05	704	1.1−	0.0
1996 05 19	809	0.2+	0.3+	2000 02 29	704	0.1−	0.4+	2000 03 12	704	0.6−	0.5−
1996 05 19	809	1.1+	0.4+	2000 02 29	704	0.2−	0.4+	2000 03 12	704	0.4+	0.1−
1996 05 19	809	0.5+	0.1+	2000 02 29	704	0.5+	0.0	2000 03 12	704	1.0+	0.1−
1996 05 22	809	(2.2−	3.0−)	2000 03 02	703	(3.1+	2.7−)	2000 03 12	704	0.9+	0.1−
1996 05 22	809	1.5−	1.1−	2000 03 02	703	0.6+	1.9−				

1996 HM₁₆ = 2000 FP₂₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	308.10133		(2000.0)	P		Q	
<i>n</i>	0.23594276	<i>ω</i>	32.36894	−0.28696244		+0.95494943	
<i>a</i>	2.5937709	<i>Ω</i>	221.09471	−0.90158620		−0.29592670	
<i>e</i>	0.1808224	<i>i</i>	6.60959	−0.32372036		−0.02233777	
<i>P</i>	4.18	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 04 18	809	(1.9−	3.6+)	1997 07 06	691	0.1−	0.5+	2000 04 03	699	0.2+	0.3+
1996 04 18	809	(1.0−	3.2+)	1997 07 06	691	0.1+	0.6+	2000 04 03	699	0.0	0.3−
1996 04 18	809	(1.6−	3.1+)	1997 07 06	691	0.4−	0.4+	2000 04 03	699	0.1−	0.1−
1996 04 20	809	(1.0+	3.6+)	2000 03 09	704	0.1+	0.1+	2000 04 07	704	0.7+	0.2+
1996 04 20	809	(0.1−	3.9+)	2000 03 09	704	0.8−	1.1−	2000 04 07	704	0.7+	0.2+
1996 04 20	809	(0.6+	2.8+)	2000 03 09	704	0.6−	0.1−	2000 04 07	704	0.4+	0.3+
1996 05 16	566	1.5−	0.8−	2000 03 27	699	0.6−	0.5+	2000 04 07	704	1.0+	0.2+
1996 05 16	566	1.1−	0.5−	2000 03 27	699	0.3−	0.3+	2000 04 08	704	0.2−	0.4−
1996 05 16	566	1.3−	0.8−	2000 03 27	699	1.0−	0.2+	2000 04 08	704	0.5+	0.1+
1996 05 19	809	0.0	0.5+	2000 03 27	699	1.1−	0.1−	2000 04 08	704	0.1−	0.2−
1996 05 19	809	0.7+	0.1+	2000 04 02	699	0.8−	0.4+	2000 04 08	704	0.9−	0.6+
1996 05 19	809	0.8+	0.0	2000 04 02	699	0.1+	0.1−	2000 04 08	704	1.0+	0.8−
1996 05 19	809	(0.6+	3.1+)	2000 04 02	699	0.1+	0.1+	2000 04 10	704	0.3+	0.2−
1996 05 19	809	(0.5−	2.9+)	2000 04 02	699	0.1+	0.1+	2000 04 10	704	0.3−	0.1−
1996 05 19	809	(0.3−	2.2+)	2000 04 03	704	0.2+	0.7+	2000 04 10	704	0.5+	0.3−
1996 05 22	809	0.4+	0.2+	2000 04 03	704	0.2+	0.9+	2000 04 10	704	0.6+	0.4−
1996 05 22	809	1.6+	0.1+	2000 04 03	699	0.2−	0.1−	2000 04 10	704	0.6+	0.2−
1996 05 22	809	0.3+	0.2+	2000 04 03	704	0.1+	0.9+				

1996 HA₂₃ = 2000 GK₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	323.91341		(2000.0)	P		Q	
<i>n</i>	0.24253027	<i>ω</i>	34.03666	−0.40205225		+0.91378800	
<i>a</i>	2.5465884	<i>Ω</i>	212.36652	−0.86228324		−0.39912191	
<i>e</i>	0.1795920	<i>i</i>	6.20263	−0.30793116		−0.07545321	
<i>P</i>	4.06	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 05 03	809	1.1+	1.0+	1996 05 14	566	0.8−	0.4+	2000 04 06	704	0.4+	0.2+
1992 05 03	809	(0.7+	2.3+)	1996 05 22	809	0.6−	0.4+	2000 04 06	704	0.4+	0.1+
1992 05 03	809	(0.9+	2.6+)	1996 05 22	809	0.4+	0.3−	2000 04 06	704	0.1−	0.1−
1993 10 12	809	(2.7+	2.4+)	1996 05 22	809	0.5+	0.2−	2000 04 06	704	0.4−	0.4−
1993 10 12	809	0.3−	0.5+	1996 05 23	809	(2.6+	0.4+)	2000 04 06	704	0.8−	0.5−
1993 10 12	809	0.1−	0.8+	1996 05 23	809	(3.0+	0.6+)	2000 04 07	704	0.4+	1.0−
1996 04 20	809	0.1−	1.3−	1996 05 23	809	(2.6+	0.7+)	2000 04 07	704	0.3+	0.3+
1996 04 20	809	0.5+	0.1−	2000 03 27	691	0.8−	0.4−	2000 04 07	704	0.7+	0.3+
1996 04 20	809	0.2+	0.8−	2000 03 27	691	0.9−	0.3−	2000 04 07	704	0.1−	0.4−
1996 04 21	809	0.5−	0.9−	2000 03 27	691	0.9−	0.3−	2000 04 07	704	0.1+	0.7−
1996 04 21	809	1.0−	0.9+	2000 04 05	691	0.6−	0.4−	2000 04 08	704	0.4+	0.4+
1996 04 21	809	0.6−	0.2−	2000 04 05	691	0.6−	0.4−	2000 04 08	704	0.4+	1.0+
1996 05 14	566	0.4+	0.5−	2000 04 05	704	0.3+	0.1+	2000 04 08	704	0.2+	0.8+
1996 05 14	566	0.6−	0.2+	2000 04 05	704	0.8+	0.4+	2000 04 08	704	0.4+	0.6+
1996 05 14	566	0.7+	0.6−	2000 04 05	691	0.7−	0.5−	2000 04 08	704	0.1+	1.4+
1996 05 14	566	0.9−	0.4+	2000 04 05	704	1.2+	1.3+				
1996 05 14	566	0.1+	0.2−	2000 04 05	704	1.4+	1.3+				

1996 HS₂₄ = 2000 GD₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	324.08097		(2000.0)	P		Q	
<i>n</i>	0.24371914	<i>ω</i>	150.47886	−0.36633778		+0.92997661	
<i>a</i>	2.5383000	<i>Ω</i>	98.01680	−0.85965478		−0.32565858	
<i>e</i>	0.1622835	<i>i</i>	1.77440	−0.35607625		−0.17055790	
<i>P</i>	4.04	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 04 20	809	(0.0	3.5−)	1996 05 22	809	0.4−	0.1−	2000 04 05	704	0.3+	0.0
1996 04 20	809	(0.7−	3.9−)	1996 05 24	809	(2.5+	3.0+)	2000 04 05	704	0.1+	0.1−
1996 04 20	809	(0.4−	3.9−)	1996 05 24	809	(2.6+	2.9+)	2000 04 05	704	0.7+	0.7+
1996 04 21	809	(0.6−	3.8−)	1996 05 24	809	(2.4+	1.5+)	2000 04 05	704	0.5−	0.4+
1996 04 21	809	(1.3−	3.9−)	2000 03 12	699	0.2−	0.2+	2000 04 07	704	0.3+	0.5−
1996 04 21	809	(1.6−	3.4−)	2000 03 12	699	0.6−	0.2+	2000 04 07	704	0.2−	0.5−
1996 05 22	809	1.2−	0.8+	2000 03 12	699	0.8+	0.5+	2000 04 07	704	0.7−	0.3−
1996 05 22	809	1.3−	0.3+	2000 03 12	699	0.0	0.7−				

1996 HK₂₅

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	253.35667		(2000.0)	P		Q	
<i>n</i>	0.22590490	<i>ω</i>	231.79344	+0.68105313		+0.72795810	
<i>a</i>	2.6700473	<i>Ω</i>	81.32734	−0.64435180		+0.64707304	
<i>e</i>	0.2164684	<i>i</i>	4.58458	−0.34781805		+0.22665719	
<i>P</i>	4.36	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 04 20	809	(5.5+	0.1+)	1997 10 30	704	(2.1+	1.3−)	2000 03 29	704	0.4+	0.4−
1996 04 20	809	(4.0+	0.7−)	1997 10 31	704	(2.1−	1.9−)	2000 03 29	704	0.1−	0.6−
1996 04 20	809	(4.4+	1.5−)	1997 10 31	704	(2.5−	1.1−)	2000 03 29	704	0.1−	0.3+
1996 04 21	809	(3.9+	1.3−)	1997 10 31	704	(2.7−	0.8−)	2000 03 29	704	0.1−	0.0
1996 04 21	809	(2.9+	0.2+)	1997 10 31	704	(2.6−	0.9−)	2000 04 02	699	0.3+	0.7+
1996 04 21	809	(2.7+	0.8+)	1997 10 31	704	(2.6−	0.6−)	2000 04 02	699	0.3−	0.4+
1996 05 12	691	0.0	0.6−	1997 11 03	704	0.2+	0.9+	2000 04 02	699	0.2+	0.1−
1996 05 12	691	0.0	0.7−	1997 11 03	704	0.4−	0.4+	2000 04 02	699	0.1−	0.6+
1996 05 12	691	0.1−	0.8−	1997 11 03	704	1.5−	0.8+	2000 04 04	704	0.5+	1.4−
1996 05 22	809	(1.7−	2.3−)	1997 11 03	704	1.3−	0.1+	2000 04 04	704	1.4+	0.2−
1996 05 22	809	(1.4−	2.8−)	1997 11 06	704	1.4−	0.2−	2000 04 04	704	0.2−	0.6+
1996 05 22	809	(1.8−	2.6−)	1997 11 06	704	0.7−	0.2+	2000 04 04	704	1.2−	1.4−
1996 05 24	809	0.1−	1.1+	1997 11 06	704	0.5−	0.3+	2000 04 08	704	0.0	0.5+
1996 05 24	809	0.1−	1.0+	1997 11 06	704	1.7−	0.1−	2000 04 08	704	0.1+	0.1−
1996 05 24	809	0.5+	0.6+	1997 11 06	704	1.2−	0.2−	2000 04 08	704	0.1−	0.7+
1997 10 29	704	1.8+	0.6−	2000 03 08	704	0.2−	0.5−	2000 04 08	704	0.4−	0.7+
1997 10 29	704	1.6+	0.2−	2000 03 08	704	0.5−	0.7+	2000 04 08	704	0.6+	1.4+
1997 10 29	704	1.8+	0.1+	2000 03 08	704	0.7−	0.1−	2000 04 10	704	0.4−	0.2−
1997 10 29	704	1.9+	0.2−	2000 03 08	704	0.5+	0.8−	2000 04 10	704	0.9+	0.4−
1997 10 29	704	1.3+	0.5−	2000 03 27	699	0.1+	0.1−	2000 04 10	704	0.1−	1.5−
1997 10 30	704	(2.6+	1.6−)	2000 03 27	699	1.0−	0.8+	2000 04 10	704	0.1+	0.3+
1997 10 30	704	(2.6+	1.9−)	2000 03 27	699	0.7−	0.5+	2000 04 10	704	1.0+	1.4−
1997 10 30	704	(2.4+	1.9−)	2000 03 27	699	0.5−	0.9+				
1997 10 30	704	(2.3+	1.6−)	2000 03 29	704	0.7+	0.1+				

M.P.C. 39970

2000 APR. 18

1996 04 20	809	0.5+	0.4+	2000 03 14	704	0.2+	0.6−	2000 04 06	699	0.3−	0.2−
1996 04 21	809	1.1+	0.5−	2000 03 14	704	0.3+	0.0	2000 04 06	699	0.4−	0.1+
1996 04 21	809	0.1−	1.4−	2000 03 14	704	1.0−	1.5+	2000 04 06	699	0.5−	0.1+
1996 04 21	809	0.7−	1.1+	2000 03 14	704	0.4+	1.2+	2000 04 07	704	0.9+	0.3+
1996 05 22	809	(3.9−	3.7+)	2000 03 27	699	0.2−	0.2−	2000 04 07	704	0.5+	0.3+
1996 05 22	809	(2.8−	4.2+)	2000 03 27	699	0.4+	0.1+	2000 04 07	704	0.4+	0.3−
1996 05 22	809	(1.7−	3.1+)	2000 03 27	699	0.1+	0.5+	2000 04 07	704	0.0	0.0
1996 05 24	809	(0.2+	3.1+)	2000 03 27	699	0.6−	0.4−	2000 04 07	704	0.5+	0.5+
1996 05 24	809	(1.1+	2.5+)	2000 04 02	699	0.1−	0.2−	2000 04 08	704	0.3+	0.2−
1996 05 24	809	0.8−	1.9+	2000 04 02	699	0.1+	0.2−	2000 04 08	704	0.2+	0.5+
1998 09 29	910	0.1−	1.3+	2000 04 02	699	0.5−	0.1−	2000 04 08	704	0.8+	0.5−
1998 09 29	910	0.3−	1.4+	2000 04 02	699	0.3+	0.3−	2000 04 08	704	0.4+	0.3−
1998 09 29	910	0.1+	1.3+	2000 04 03	699	0.2+	0.1−	2000 04 08	704	0.7+	0.2−
2000 03 10	704	0.2−	0.2−	2000 04 03	699	0.5−	0.4−				
2000 03 10	704	0.1−	1.2−	2000 04 03	699	0.5−	0.3−				

1996 JA = 2000 EO₁₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	277.45491	(2000.0)		P	Q		
<i>n</i>	0.22941483	ω	191.48349	−0.27793935	+0.94420174		
<i>a</i>	2.6427438	Ω	62.59014	−0.86481627	−0.16587063		
<i>e</i>	0.1523411	<i>i</i>	11.48300	−0.41814176	−0.28455230		
<i>P</i>	4.30	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 05	118	0.6+	0.8+	1996 05 16	118	0.1+	0.5−	2000 03 04	704	0.7−	0.1−
1996 05 05	118	0.4+	0.7+	1996 05 17	118	1.2+	0.6−	2000 03 11	699	1.1−	0.2+
1996 05 06	118	0.8−	0.4+	1996 05 17	118	0.5+	0.0	2000 03 11	699	0.3−	0.2+
1996 05 06	118	0.4−	0.8+	1996 06 14	118	0.1+	0.1−	2000 03 11	699	0.4−	0.2−
1996 05 06	118	0.7−	0.4+	1996 06 14	118	0.4−	1.5+	2000 03 11	699	1.1−	1.6−
1996 05 10	118	0.1+	0.3−	1996 06 14	118	(0.6−	2.7+)	2000 03 12	704	0.3+	0.0
1996 05 15	118	0.1−	0.5−	1996 06 15	118	0.9−	1.3−	2000 03 12	704	0.6+	0.3+
1996 05 15	118	0.4+	0.3−	1996 06 15	118	0.4+	0.3+	2000 03 12	704	0.7+	0.1+
1996 05 15	118	0.4−	1.2−	2000 03 04	704	0.2+	0.3+	2000 03 12	704	1.1+	0.1+
1996 05 16	118	0.3−	0.1−	2000 03 04	704	0.2+	0.6−	2000 03 12	704	0.5+	1.1+

1996 JR₂ = 1969 LK = 2000 BA₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	297.08004	(2000.0)		P	Q		
<i>n</i>	0.21703976	ω	166.31670	−0.86793640	+0.45695776		
<i>a</i>	2.7422677	Ω	42.67528	−0.47842633	−0.66395012		
<i>e</i>	0.2643404	<i>i</i>	16.68521	−0.13339661	−0.59191202		
<i>P</i>	4.54	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1969 06 12	074	1.4+	1.3+	1999 11 01	704	0.7+	0.6+	2000 01 27	704	0.4−	0.2−
1969 06 12	074	0.5+	0.2+	1999 11 01	704	0.5−	0.7+	2000 01 27	704	0.3−	0.3−
1969 06 12	074	(4.0−	2.8−)	1999 11 01	704	1.4−	1.7+	2000 01 27	704	0.2−	0.1−
1969 06 12	074	(9.5−	4.6−)	1999 12 13	704	0.7−	0.3−	2000 01 27	704	0.1+	0.5−
1969 06 12	074	2.1−	2.2−	1999 12 13	704	0.1−	0.5−	2000 03 26	704	0.3−	0.1+
1969 06 12	074	(4.4+	2.5−)	1999 12 13	704	0.8+	0.0	2000 03 26	704	0.0	0.0
1996 05 12	327	0.6+	0.3−	1999 12 13	704	0.2+	0.7−	2000 03 26	704	0.1−	0.7−
1996 05 12	327	1.0+	0.1−	1999 12 13	704	0.3+	1.1−	2000 03 26	704	0.7−	0.6−
1996 05 12	327	1.5+	0.7−	1999 12 30	704	0.2+	0.2+	2000 03 26	704	0.7−	0.7−
1996 05 14	327	0.2−	0.5+	1999 12 30	704	0.2−	0.4−	2000 03 27	704	0.8+	0.3−
1996 05 14	327	0.3−	0.9+	1999 12 30	704	0.2+	0.4+	2000 03 27	704	0.4+	0.0
1996 05 14	327	0.8−	0.1+	1999 12 30	704	0.1−	0.5−	2000 03 27	704	0.1+	0.2+
1996 05 14	327	0.2−	0.5+	2000 01 21	704	1.0−	0.0	2000 03 27	704	0.9+	0.4−
1996 05 15	327	0.6−	0.1+	2000 01 21	704	1.0+	1.2+	2000 03 27	704	0.3+	0.7−
1996 05 15	327	0.1−	0.1+	2000 01 21	704	0.2+	0.2+				
1996 05 15	327	0.1−	0.1−	2000 01 21	704	0.6+	1.7+				

1996 JR₃ = 2000 FB₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	177.57434	(2000.0)		P	Q		
<i>n</i>	0.22522715	ω	278.85815	+0.99374432	+0.05796805		
<i>a</i>	2.6754010	Ω	77.85995	−0.01323798	+0.90985461		
<i>e</i>	0.0065496	<i>i</i>	5.60329	−0.11089180	+0.41085800		
<i>P</i>	4.38	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 09	691	0.6+	0.3+	1998 12 14	704	0.3+	0.7−	2000 04 03	704	0.1+	0.0
1996 05 09	691	0.4+	0.2−	1998 12 14	704	0.3+	1.2+	2000 04 03	704	0.1+	0.1−
1996 05 09	691	0.3+	0.0	1998 12 14	704	0.2−	0.7+	2000 04 03	704	0.8−	0.3−
1996 05 15	691	0.2−	0.3+	1998 12 14	704	0.9−	0.8+	2000 04 03	704	0.2+	0.1−
1996 05 15	691	0.5−	0.5+	2000 03 12	703	0.7−	0.0	2000 04 03	704	1.0+	0.3+
1996 05 15	691	0.3−	0.5+	2000 03 12	703	0.2+	0.5−	2000 04 07	699	0.5−	0.2+
1996 05 22	691	0.8−	0.5−	2000 03 12	703	0.3−	0.0	2000 04 07	699	0.2−	0.1+
1996 05 22	691	0.9−	0.2−	2000 03 12	703	0.1−	0.2−	2000 04 07	699	0.4−	0.3+
1996 05 22	691	0.9−	0.1+	2000 03 12	704	0.2−	0.1−	2000 04 07	699	0.6−	0.4−
1996 06 08	809	1.8+	0.8+	2000 03 12	704	0.0	0.1+	2000 04 08	704	1.3+	1.2+
1996 06 08	809	0.2+	0.4+	2000 03 12	704	0.9−	0.3−	2000 04 08	704	0.2+	0.3+
1996 06 08	809	0.6+	0.3+	2000 03 12	704	0.1−	0.9−	2000 04 08	704	0.7−	0.4+
1996 06 10	809	0.8+	0.0	2000 03 28	704	0.1−	0.1−	2000 04 08	704	1.6+	0.3−
1996 06 10	809	0.4−	0.7−	2000 03 28	704	0.1+	0.4−				
1996 06 10	809	0.6+	0.9+	2000 03 28	704	0.3+	0.2−				

1996 JY₉ = 1995 BL₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	129.34732	(2000.0)		P	Q		
<i>n</i>	0.23113487	ω	310.24261	+0.48853451	−0.87136024		
<i>a</i>	2.6296164	Ω	110.45779	+0.81455065	+0.43677319		
<i>e</i>	0.1116946	<i>i</i>	2.78025	+0.31279588	+0.22351849		
<i>P</i>	4.26	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1995 01 31	691	0.1−	0.4−	1995 02 05	691	0.2+	0.0	1996 05 13	691	0.2+	0.2−
1995 01 31	691	0.6−	0.3+	1995 02 05	691	0.2+	0.4+	1996 05 21	691	0.3−	0.2+
1995 01 31	691	0.1+	0.7−	1996 05 13	691	0.4+	0.3+	1996 05 21	691	0.3−	0.6−
1995 02 05	691	0.3+	0.3+	1996 05 13	691	0.2−	0.3+	1996 05 21	691	0.1+	0.1−

1996 JP₁₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	41.33891	(2000.0)		P	Q		
<i>n</i>	0.23156691	ω	31.07489	−0.61862412	−0.76443819		
<i>a</i>	2.6263446	Ω	97.77462	+0.67800715	−0.63612269		
<i>e</i>	0.1897346	<i>i</i>	10.55465	+0.39700189	−0.10479591		
<i>P</i>	4.26	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 05 10	691	0.0	0.0	1996 05 23	691	0.6+	0.5−	2000 04 04	699	0.1−	0.0
1996 05 10	691	0.0	0.1+	1996 05 23	691	0.1−	0.0	2000 04 04	699	0.0	0.4−
1996 05 17	691	0.3−	0.0	2000 03 12	699	0.2−	0.1+	2000 04 04	699	0.3−	0.3+
1996 05 17	691	0.1−	0.4+	2000 03 12	699	0.1+	0.2−	2000 04 04	699	0.3+	0.3+
1996 05 17	691	0.1+	0.1−	2000 03 12	699	0.4+	0.6+				
1996 05 23	691	0.1−	0.1+	2000 03 12	699	0.2−	0.5−				

2000 APR. 18

M.P.C. 39971

1996 KU₁ = 2000 GX₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	313.25692		(2000.0)	P	Q
<i>n</i>	0.23769939	ω	69.89577	+0.10864043	+0.99172588
<i>a</i>	2.5809762	Ω	206.62535	-0.95952779	+0.08663509
<i>e</i>	0.3443390	<i>i</i>	8.77769	-0.25981470	+0.09473196
<i>P</i>	4.15	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 05 24	358	0.4-	0.8-	1996 06 12	658	0.2+	0.4+	2000 04 07	704	0.2+	0.7+
1996 05 24	358	0.6+	0.3+	1996 06 12	658	0.2+	0.4+	2000 04 07	691	1.2+	1.0-
1996 05 25	358	0.1+	1.4-	1996 06 12	658	0.1+	0.4+	2000 04 07	704	0.1-	0.2+
1996 05 25	358	0.6+	1.6+	1996 06 12	358	0.6-	0.7+	2000 04 07	704	0.6-	0.4+
1996 05 27	358	1.1-	0.2-	1996 06 12	358	0.6+	0.7-	2000 04 07	691	0.3-	0.2-
1996 05 27	358	1.4+	0.7+	1996 06 12	358	0.3-	1.6-	2000 04 07	704	0.3-	0.1-
1996 05 28	358	1.2-	0.5-	2000 04 05	704	0.7-	0.1-	2000 04 07	704	0.7+	1.1+
1996 05 28	358	(2.6+	2.8-)	2000 04 05	704	0.2+	0.1+	2000 04 13	608	0.1+	0.5-
1996 06 07	658	0.1-	0.3+	2000 04 05	704	0.2-	0.1+	2000 04 13	608	0.2+	0.4-
1996 06 07	658	0.1-	0.2+	2000 04 05	704	0.2-	0.1-	2000 04 13	608	0.1-	0.0
1996 06 07	658	0.1-	0.2+	2000 04 07	691	0.2-	0.1-				

1996 LT = 2000 FB₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	309.77031		(2000.0)	P	Q
<i>n</i>	0.23295468	ω	146.19837	-0.30212146	+0.94156887
<i>a</i>	2.6159037	Ω	105.82854	-0.90528136	-0.23445675
<i>e</i>	0.1726257	<i>i</i>	8.90326	-0.29864408	-0.24182243
<i>P</i>	4.23	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1994 12 31	691	0.3+	0.2-	1996 06 13	684	1.1+	0.2-	2000 03 29	704	0.9-	0.1-
1994 12 31	691	0.0	1.6-	1996 06 13	684	0.6+	0.6-	2000 03 29	704	0.6-	0.0
1994 12 31	691	0.2-	0.9-	1996 06 16	684	0.1+	0.6-	2000 03 29	704	0.1-	0.2-
1996 04 22	691	0.1+	0.6+	1996 06 16	684	0.0	0.9-	2000 04 05	704	0.2-	0.1+
1996 04 22	691	0.2-	0.5+	1996 06 16	684	0.1+	0.9-	2000 04 05	704	0.5-	0.8+
1996 04 22	691	0.1+	0.1-	1996 06 16	691	0.2+	0.4-	2000 04 05	704	0.3+	0.4+
1996 06 08	691	0.2+	0.4-	1996 06 16	691	0.3+	0.1+	2000 04 05	704	0.3+	1.1+
1996 06 08	691	0.9-	0.5-	1996 06 16	691	0.3+	0.0	2000 04 13	704	0.1+	0.4-
1996 06 11	684	0.7+	0.3-	2000 03 11	699	0.7+	0.2+	2000 04 13	704	0.5+	0.3+
1996 06 11	684	0.3+	0.3-	2000 03 11	699	0.4+	0.3+	2000 04 13	704	0.3+	0.1-
1996 06 12	684	1.3-	0.3+	2000 03 11	699	0.9+	0.2-	2000 04 13	704	0.4-	0.5-
1996 06 12	684	1.3-	0.7+	2000 03 11	699	1.7+	0.5-				
1996 06 12	684	1.2-	0.7+	2000 03 29	704	1.4-	0.1+				

1996 LZ = 2000 GM₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	334.83165		(2000.0)	P	Q
<i>n</i>	0.23864609	ω	297.55931	-0.60735361	+0.79436087
<i>a</i>	2.5741460	Ω	295.03833	-0.72468833	-0.55945224
<i>e</i>	0.1248285	<i>i</i>	0.67044	-0.32549719	-0.23665164
<i>P</i>	4.13	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 10 12	809	0.7-	1.4+	1996 06 14	566	0.2+	0.1-	2000 04 06	704	0.4-	0.8+
1993 10 12	809	(0.3-	2.4+)	1996 06 14	566	0.1+	0.2-	2000 04 06	704	0.0	0.4+
1993 10 12	809	(1.7-	2.5+)	1996 06 15	566	0.3+	0.0	2000 04 06	704	0.4+	0.1+
1993 10 22	809	0.3+	1.4-	1996 06 15	566	0.3-	0.7-	2000 04 06	704	0.4-	0.0
1993 10 22	809	0.4+	0.0	1996 06 15	566	0.1-	0.0	2000 04 06	704	0.0	0.1-
1993 10 22	809	(4.2-	0.7+)	1996 06 22	566	0.2-	0.6-	2000 04 06	704	0.0	0.1+
1994 11 29	691	0.5-	0.8-	1996 06 22	566	0.1+	0.2-	2000 04 06	704	0.0	0.0
1994 11 29	691	0.0	1.5-	1996 06 22	566	0.3-	0.3-	2000 04 06	704	0.2-	0.3+
1994 11 29	691	0.0	0.5-	2000 04 05	704	0.4+	0.6-	2000 04 08	704	0.6+	0.4-
1996 06 13	566	0.2-	0.5-	2000 04 05	704	0.2-	0.1-	2000 04 08	704	0.9+	0.4+
1996 06 13	566	0.4-	0.4-	2000 04 05	704	0.2-	0.1-	2000 04 08	704	0.0	0.2+

1996 06 13	566	0.6-	0.3-	2000 04 05	704	1.0-	0.5-	2000 04 08	704	1.1+	0.3-
1996 06 14	566	0.3+	0.4-	2000 04 06	704	0.1-	1.5+	2000 04 08	704	0.1-	0.5+

1996 LH₁ = 2000 GD₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	306.32298		(2000.0)	P	Q
<i>n</i>	0.24558654	ω	192.38624	+0.58341235	+0.78465114
<i>a</i>	2.5254164	Ω	113.67352	-0.72426238	+0.61943865
<i>e</i>	0.2539715	<i>i</i>	13.23303	-0.36752420	+0.02486652
<i>P</i>	4.01	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 06 13	966	0.3+	0.3-	1996 06 21	966	0.0	0.4+	2000 04 12	704	0.2-	0.5+
1996 06 13	966	0.4-	0.1+	1996 06 22	966	0.2-	0.5+	2000 04 12	704	0.2-	0.0
1996 06 13	966	0.3+	0.2-	1996 06 22	966	0.1+	0.5-	2000 04 13	704	0.0	0.2+
1996 06 14	966	0.1-	0.0	1996 06 24	966	0.2-	0.4-	2000 04 13	704	0.2-	0.1-
1996 06 17	966	0.4-	0.3+	1996 06 24	966	0.4+	0.1-	2000 04 13	704	0.4-	0.4-
1996 06 18	966	0.1+	0.2+	2000 04 12	704	0.7+	0.3+	2000 04 13	704	0.3+	0.4-

1996 LB₂ = 1999 FL₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	106.06329		(2000.0)	P	Q
<i>n</i>	0.29318986	ω	350.55062	-0.96766415	-0.25220026
<i>a</i>	2.2440718	Ω	174.83478	+0.23463352	-0.90665154
<i>e</i>	0.1082169	<i>i</i>	2.92606	+0.09259159	-0.33819819
<i>P</i>	3.36	<i>H</i>	16.7	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1996 06 13	566	0.2+	1.0+	1996 06 22	566	0.3-	1.0-	1999 03 16	691	0.4+	0.4-
1996 06 13	566	0.8+	1.1+	1996 06 22	566	0.5-	1.0-	1999 03 19	691	0.3-	0.3+
1996 06 13	566	0.1+	1.1+	1999 03 16	691	0.2+	0.1-	1999 03 19	691	0.4-	0.2+
1996 06 22	566	0.4-	1.2-	1999 03 16	691	0.2+	0.2-	1999 03 19	691	0.3-	0.1+

1996 LM₂

Id. E. Bowell (1998, 2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	72.30798		(2000.0)	P	Q
<i>n</i>	0.22767776	ω	331.23686	-0.24526325	-0.96405043
<i>a</i>	2.6561686	Ω	132.75720	+0.91398434	-0.26510172
<i>e</i>	0.1553421	<i>i</i>	8.00413	+0.32323145	+0.01810675
<i>P</i>	4.33	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1996 06 08	691	0.3+	0.2-	1996 06 22	691	0.3-	0.1+	2000 04 04	699	1.1+	0.1-
1996 06 08	691	0.0	0.1-	1996 06 22	691	0.1+	0.0	2000 04 04	704	0.2+	0.7-
1996 06 08	691	0.2+	0.0	2000 04 04	699	0.8-	0.1+	2000 04 04	704	1.1+	0.1-
1996 06 16	691	0.8-	0.1+	2000 04 04	704	0.7-	1.0-	2000 04 08	704	0.1-	0.6-
1996 06 16	691	0.0	0.1-	2000 04 04	699	0.8-	0.5-	2000 04 08	704	0.3+	1.0+
1996 06 16	691	0.5+	0.1+	2000 04 04	699	0.3-	0.5+	2000 04 08	704	0.1+	0.0
1996 06 22	691	0.0	0.0	2000 04 04	704	1.1-	0.1+	2000 04 08	704	1.1+	1.3+

1996 MB = 2000 GA₂₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	297.78822		(2000.0)	P	Q
<i>n</i>	0.22739728	ω	332.68221	-0.04377545	+0.99885805
<i>a</i>	2.6583523	Ω	294.80353	-0.91271069	-0.04777556
<i>e</i>	0.1679551	<i>i</i>	1.20811	-0.40625474	-0.00029586
<i>P</i>	4.33	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 06 17	735	0.4-	0.3+	1996 07 06	735	0.4+	0.2-	2000 04 05	704	0.1-	0.2-
1996 06 17	735	0.3-	0.4+	1996 07 06	735	0.2-	0.3+	2000 04 05	704	0.3-	0.1+

1996 06 17	735	0.1+	0.4+	1996 07 12	735	0.9+	0.5+	2000 04 05	704	0.0	0.2+
1996 06 18	735	1.3+	0.2+	1996 07 12	735	0.4-	0.4+	2000 04 05	704	0.1+	0.2+
1996 06 18	735	1.0+	0.0	1996 07 12	735	0.1-	0.2+	2000 04 05	704	0.2+	0.6+
1996 06 20	735	0.9-	0.3-	1996 07 20	735	0.2+	0.3+	2000 04 07	704	0.3+	0.5+
1996 06 20	735	0.4+	0.9-	1996 07 20	735	(1.1+	2.6+)	2000 04 07	704	0.2+	0.2+
1996 06 22	735	0.5+	0.2+	1996 07 20	735	0.5-	1.3+	2000 04 07	704	0.3+	0.4+
1996 06 22	735	0.6-	0.6-	1996 07 21	735	0.3+	0.3+	2000 04 07	704	0.2-	0.2+
1996 06 22	735	0.6-	0.0	1996 07 21	735	(2.5+	0.5-)	2000 04 07	704	0.2-	0.8+
1996 07 04	735	0.1-	1.1-	1996 07 21	735	1.1+	0.0	2000 04 10	704	0.2+	0.9-
1996 07 04	735	0.2-	0.8-	1997 09 28	691	0.1+	0.8+	2000 04 10	704	0.2+	0.6-
1996 07 04	735	1.3-	0.5-	1997 09 28	691	0.4-	0.5+	2000 04 10	704	0.1-	0.2+
1996 07 06	735	0.4-	0.1+	1997 09 28	691	0.3-	0.5+	2000 04 10	704	0.1+	0.1+

1996 NB

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	248.36153		(2000.0)	P	Q
<i>n</i>	0.19259724	ω	175.17675	+0.73290449	+0.66930488
<i>a</i>	2.9696323	Ω	141.86758	-0.63061360	+0.73562198
<i>e</i>	0.0900984	<i>i</i>	11.39452	-0.25529884	+0.10436132
<i>P</i>	5.12	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 07 13	118	0.2+	0.0	1996 07 23	118	0.2-	0.3+	1996 08 19	118	0.4-	0.3+
1996 07 13	118	0.3+	0.7+	1996 07 23	118	0.1+	0.3-	1996 08 22	118	0.1-	0.0
1996 07 13	118	0.4+	0.6+	1996 07 27	118	1.3+	1.0-	1996 08 22	118	0.2-	0.6-
1996 07 13	118	0.2+	0.1-	1996 07 27	118	1.0+	1.4-	1996 08 22	118	0.5-	0.3+
1996 07 13	118	0.3-	0.2+	1996 08 06	118	0.5+	0.4+	1996 08 23	118	0.2-	0.0
1996 07 14	118	0.5-	0.2+	1996 08 06	118	0.3+	0.5+	1996 08 23	118	0.6-	0.0
1996 07 14	118	0.1-	0.4-	1996 08 06	118	0.9+	0.2+	1996 08 24	118	0.1-	0.8+
1996 07 14	118	0.4-	0.2+	1996 08 09	118	0.2+	0.6-	1996 08 24	118	0.5-	0.7+
1996 07 14	118	0.0	0.2-	1996 08 09	118	0.0	0.6-	2000 04 07	699	0.2+	0.4+
1996 07 16	118	0.2-	0.5+	1996 08 10	118	0.8+	0.3-	2000 04 07	699	0.1+	0.6+
1996 07 16	118	0.7-	0.0	1996 08 10	118	1.3+	0.3-	2000 04 07	699	0.0	0.3+
1996 07 16	118	0.2-	0.1-	1996 08 15	566	0.0	0.3-	2000 04 07	699	0.6+	0.1-
1996 07 20	118	0.7-	0.4+	1996 08 15	566	0.0	0.4-	2000 04 09	699	0.2+	0.6-
1996 07 20	118	0.6-	0.3+	1996 08 15	566	0.6-	0.6-	2000 04 09	699	0.7-	0.8-
1996 07 20	118	0.3-	0.0	1996 08 19	118	0.2-	0.6+	2000 04 09	699	0.5-	0.2+

1996 NU = 1977 DA₉ = 2000 CG₅₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	356.87799		(2000.0)	P	Q
<i>n</i>	0.17360202	ω	27.59420	-0.98815235	+0.09891570
<i>a</i>	3.1824837	Ω	157.15653	-0.11336064	-0.98583747
<i>e</i>	0.0787395	<i>i</i>	17.59439	+0.10346163	-0.13542588
<i>P</i>	5.68	<i>H</i>	12.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1977 02 19	381	0.2+	0.2-	2000 01 08	704	0.4+	1.0-	2000 03 12	703	0.3-	0.4+
1977 02 19	381	0.3-	0.7-	2000 02 05	704	0.7+	0.3-	2000 03 12	703	0.0	0.3+
1996 07 15	721	1.2-	0.6+	2000 02 05	704	0.1+	0.2-	2000 03 12	704	0.2+	0.3+
1996 07 15	721	0.6-	0.7+	2000 02 05	704	0.7+	1.4+	2000 03 12	704	0.2+	0.1+
1996 07 17	721	0.1-	0.9+	2000 02 06	704	0.4-	0.2+	2000 03 12	704	0.0	0.2+
1996 07 17	721	1.1+	1.1+	2000 02 06	704	1.3+	0.6+	2000 03 12	704	0.2+	0.0
1996 07 17	721	0.3+	0.8+	2000 02 06	704	0.6+	0.2+	2000 03 29	704	0.3-	0.3+
1996 07 22	721	1.0-	0.1+	2000 02 06	704	0.6+	0.6-	2000 03 29	704	0.3-	0.5+
1996 07 22	721	1.2+	1.6+	2000 02 06	704	1.3+	1.2+	2000 03 29	704	0.3-	0.4+
1999 01 22	704	0.7-	1.3+	2000 02 11	704	0.0	0.4-	2000 03 29	704	0.3-	0.5+
1999 01 22	704	0.2+	0.9+	2000 02 11	704	0.2+	0.3-	2000 03 29	704	0.2-	0.9+
1999 01 22	704	0.3-	0.7+	2000 02 11	704	0.4+	0.5+	2000 04 03	704	0.3-	0.3+
1999 01 22	704	0.3+	1.2+	2000 02 29	704	0.1+	0.4-	2000 04 03	704	0.2-	0.6+
1999 01 22	704	0.2-	1.0+	2000 02 29	704	0.3+	0.4+	2000 04 03	704	0.3-	0.2+
1999 11 08	703	0.2-	0.1+	2000 02 29	704	0.1+	0.9+	2000 04 03	704	0.2-	0.0
1999 11 08	703	0.4+	0.4-	2000 02 29	704	1.5-	0.2-	2000 04 03	704	0.4-	0.2-
1999 11 08	703	0.3-	0.3-	2000 02 29	704	0.3+	0.2+	2000 04 08	704	0.1+	0.1+

1999 11 08	703	0.1-	0.3-	2000 03 06	608	0.2-	0.5-	2000 04 08	704	0.1-	0.4-
2000 01 08	704	0.6-	0.8-	2000 03 06	608	0.0	0.4-	2000 04 08	704	0.1-	0.4+
2000 01 08	704	0.6+	0.1-	2000 03 06	608	0.1-	0.6-	2000 04 08	704	0.1+	0.1+
2000 01 08	704	0.4+	0.8-	2000 03 12	703	0.1-	0.6+	2000 04 08	704	0.3-	0.1-
2000 01 08	704	0.2+	1.1-	2000 03 12	703	0.1-	0.2+				

1996 OV₂ = 2000 GY₅₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	329.02124		(2000.0)	P	Q
<i>n</i>	0.20056648	ω	201.80107	-0.62659903	+0.77900828
<i>a</i>	2.8904390	Ω	29.41373	-0.70799938	-0.55676825
<i>e</i>	0.0328286	<i>i</i>	2.66071	-0.32574613	-0.28836645
<i>P</i>	4.91	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1996 07 26	608	0.0	0.1-	1996 08 09	608	0.0	0.2+	2000 04 07	704	0.0	0.2+
1996 07 26	608	0.2+	0.9-	1996 08 12	608	0.8+	0.1-	2000 04 07	699	0.3-	0.5-
1996 07 29	608	0.4+	0.2+	1996 08 12	608	0.1+	0.2-	2000 04 07	691	0.5+	0.2-
1996 07 29	608	0.3-	0.2-	1996 08 14	608	0.4+	0.4+	2000 04 07	704	0.2-	0.7+
1996 07 29	608	0.1-	0.2-	1996 08 14	608	0.3+	0.6+	2000 04 07	691	0.4+	0.4-
1996 07 29	608	0.4-	0.1-	2000 04 04	699	0.1-	0.5-	2000 04 07	691	0.2+	0.3-
1996 07 31	608	0.1-	0.2+	2000 04 04	699	0.5+	0.7-	2000 04 08	704	0.1+	0.0
1996 07 31	608	0.1+	0.1-	2000 04 04	699	0.3-	0.1+	2000 04 08	704	0.5-	0.7+
1996 08 01	608	0.4-	0.6-	2000 04 04	699	0.5+	0.6+	2000 04 08	704	0.1+	1.1+
1996 08 01	608	0.7-	0.1-	2000 04 05	704	0.3+	0.1-	2000 04 08	704	0.3-	0.3-
1996 08 02	608	0.1-	0.1+	2000 04 05	704	0.2-	0.4-	2000 04 08	704	0.2+	0.1-
1996 08 02	608	0.3-	0.3+	2000 04 05	704	1.2-	0.1+	2000 04 08	691	0.2-	0.2-
1996 08 05	608	0.4+	0.2+	2000 04 05	704	0.4-	0.0	2000 04 08	704	0.3+	0.0
1996 08 05	608	0.6+	0.1+	2000 04 05	704	0.2+	0.4+	2000 04 08	704	1.1+	0.6-
1996 08 05	608	0.8+	0.2+	2000 04 06	704	0.3+	0.3-	2000 04 08	691	0.2-	0.1-
1996 08 05	608	0.6+	0.3+	2000 04 06	704	0.3-	0.3-	2000 04 08	704	0.4+	0.6+
1996 08 05	608	0.7+	0.3+	2000 04 06	704	0.4+	1.2+	2000 04 08	704	0.2-	0.5+
1996 08 05	608	0.7+	0.2-	2000 04 06	704	0.4-	0.8+	2000 04 08	704	0.2+	0.1+
1996 08 07	608	0.8-	0.2+	2000 04 06	704	0.7+	0.9+	2000 04 08	691	0.2-	0.1-
1996 08 07	608	0.9-	0.3-	2000 04 07	699	1.5-	0.6-	2000 04 12	608	0.5+	0.8-
1996 08 07	608	0.7-	0.1+	2000 04 07	699	0.6-	0.3+	2000 04 12	608	0.6+	1.1-
1996 08 07	608	1.3-	0.5-	2000 04 07	704	0.5-	0.3+	2000 04 12	608	0.8+	0.6-
1996 08 09	608	0.0	0.2+	2000 04 07	699	0.7-	0.5-				

1996 PZ₇ = 1993 RK₁₉ = 1999 NO₃₃

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	26.08993		(2000.0)	P	Q
<i>n</i>	0.31624324	ω	52.52861	+0.99366660	+0.11214517
<i>a</i>	2.1336436	Ω	301.03137	-0.10552953	+0.90968273
<i>e</i>	0.1680756	<i>i</i>	0.47354	-0.03860326	+0.39987598
<i>P</i>	3.12	<i>H</i>	16.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 09 15	809	1.4+	0.0	1996 08 09	809	1.4+	0.3+	1999 07 14	704	0.1+	0.7-
1993 09 15	809	0.4-	1.0-	1996 08 09	809	0.5+	0.8+	1999 07 14	704	0.5-	0.7-
1993 09 15	809	0.4-	0.3-	1996 08 09	809	1.0+	0.4+	1999 07 14	704	0.1+	0.2-
1993 09 22	809	(4.1+	3.2+)	1996 08 20	566	0.8-	0.4-	1999 07 14	704	0.1-	0.2+
1993 09 22	809	(4.6+	2.5+)	1996 08 20	566	1.5-	1.4-	1999 07 16	704	0.4+	0.6+
1993 09 22	809	(4.5+	3.0+)	1996 08 20	566	1.4-	1.5-	1999 07 16	704	0.1+	0.2+
1996 08 08	809	0.6+	0.8+	1996 09 08	809	0.3+	1.3+	1999 07 16	704	0.1-	0.7+
1996 08 08	809	0.2-	1.4-	1996 09 08	809	0.1+	1.8+				
1996 08 08	809	0.3+	1.1-	1996 09 08	809	0.6-	1.9+				

2000 APR. 18

M.P.C. 39973

1996 QJ = 2000 GL₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	188.94987		(2000.0)	P		Q		Williams	
<i>n</i>	0.17307445	ω	67.93722	+0.88517391		-0.46492263			
<i>a</i>	3.1889478	Ω	319.76208	+0.41611573		+0.80813958			
<i>e</i>	0.2586468	<i>i</i>	1.57217	+0.20812220		+0.36160389			
<i>P</i>	5.69	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	7		

Residuals in seconds of arc

1996 08 17	566	0.6-	0.4+	1996 08 20	566	0.6+	0.3+	2000 04 05	704	0.5-	0.9-
1996 08 17	566	0.8-	0.3+	1996 08 20	566	1.3+	0.1+	2000 04 06	704	0.2+	1.0+
1996 08 17	566	0.8-	0.4+	1996 08 20	566	0.3+	0.1-	2000 04 06	704	0.1-	0.9+
1996 08 19	566	0.2+	0.4-	2000 04 05	704	0.9+	1.5-	2000 04 06	704	0.4+	1.8+
1996 08 19	566	0.3-	0.4-	2000 04 05	704	0.5+	1.4-	2000 04 06	704	1.5-	1.0+
1996 08 19	566	0.1+	0.6-	2000 04 05	704	0.2+	0.9-				

1996 RH₃ = 2000 FN₂₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	321.57160		(2000.0)	P		Q		Williams	
<i>n</i>	0.17410067	ω	82.49003	-0.53013946		+0.84716885			
<i>a</i>	3.1764041	Ω	155.39373	-0.80765800		-0.49180001			
<i>e</i>	0.1804515	<i>i</i>	4.88474	-0.25814862		-0.20109124			
<i>P</i>	5.66	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1996 09 13	684	1.6-	0.5-	2000 03 27	699	1.1-	0.4-	2000 04 08	704	0.1+	0.0
1996 09 13	684	0.6-	0.5-	2000 03 27	699	0.6-	0.1+	2000 04 08	704	0.6+	0.1+
1996 09 13	684	0.9-	0.6-	2000 03 27	699	0.6-	0.3-	2000 04 08	704	0.2-	0.1-
1996 09 15	684	0.8+	0.1-	2000 03 27	699	0.5-	0.1-	2000 04 08	704	0.1+	0.2+
1996 09 15	684	0.5+	0.4+	2000 03 29	704	0.4-	0.2+	2000 04 08	704	0.3-	0.2-
1996 09 15	684	0.2+	0.4+	2000 03 29	704	0.6-	0.0	2000 04 08	704	0.2+	0.6+
1996 09 16	684	0.9+	0.3+	2000 03 29	704	0.3-	0.1+	2000 04 08	704	0.6+	0.3-
1996 09 16	684	1.2+	0.3+	2000 03 29	704	0.6-	0.1-	2000 04 08	704	0.2+	0.5+
1996 09 16	684	0.9+	0.5+	2000 03 29	704	0.2-	0.3+	2000 04 08	704	0.3+	0.3-
1996 10 03	684	0.6-	0.6-	2000 04 02	699	0.0	0.3-	2000 04 08	704	0.4-	0.1+
1996 10 03	684	0.4-	0.2-	2000 04 02	699	0.3-	0.2-	2000 04 10	704	0.1+	0.0
1996 10 04	684	0.0	0.2-	2000 04 02	699	0.1-	0.3+	2000 04 10	704	0.4-	0.0
1996 10 04	684	0.0	0.4-	2000 04 02	699	0.1-	0.1+	2000 04 10	704	0.1-	0.3-
2000 03 01	703	0.3-	0.1+	2000 04 04	704	0.3+	1.3+	2000 04 10	704	0.1-	0.1+
2000 03 01	703	0.1+	0.6+	2000 04 04	704	0.4+	0.8+	2000 04 10	704	0.2+	0.3-
2000 03 01	703	0.8-	0.5-	2000 04 04	704	0.3+	0.2+	2000 04 10	704	0.5-	0.6+
2000 03 01	703	0.3-	0.2-	2000 04 04	704	0.6+	0.3-	2000 04 10	704	0.1+	0.3-
2000 03 08	704	0.7-	0.8-	2000 04 04	704	0.4+	1.0-	2000 04 10	704	0.2+	0.0
2000 03 08	704	0.9+	0.1-	2000 04 07	699	0.5+	0.0	2000 04 10	704	0.4+	0.0
2000 03 08	704	0.1+	0.5-	2000 04 07	699	0.7+	0.5-	2000 04 10	704	0.2+	0.2+
2000 03 08	704	0.3+	0.3+	2000 04 07	699	0.4+	0.5-				
2000 03 08	704	0.4+	0.3-	2000 04 07	699	0.7+	0.4-				

1996 RP₁₂ = 1989 VT₃ = 1989 XY₂ = 1991 GB₁₀

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	259.95173		(2000.0)	P		Q		Williams	
<i>n</i>	0.26727928	ω	266.35101	+0.25364079		-0.96703398			
<i>a</i>	2.3868540	Ω	168.87726	+0.92750725		+0.23650244			
<i>e</i>	0.0883631	<i>i</i>	6.73357	+0.27458449		+0.09440279			
<i>P</i>	3.69	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1989 11 03	809	1.7+	0.1-	1989 12 02	809	(6.3-	0.6-)	1996 09 08	691	0.1+	0.2-
1989 11 03	809	0.7-	0.4-	1991 04 09	033	0.8-	0.7-	1996 09 08	691	0.1+	0.1-
1989 11 03	809	1.0-	0.4+	1991 04 09	033	0.2+	0.5-	1996 09 11	691	0.0	0.0
1989 12 02	809	(6.3-	0.4-)	1991 04 11	033	0.6+	1.2+	1996 09 11	691	0.1-	0.2+
1989 12 02	809	(6.8-	0.4-)	1996 09 08	691	0.0	0.2+	1996 09 11	691	0.0	0.1-

1996 RQ₁₃ = 2000 GZ₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	220.06236		(2000.0)	P		Q		Williams	
<i>n</i>	0.17072835	ω	5.97140	+0.97286193		+0.23120369			
<i>a</i>	3.2180957	Ω	340.65318	-0.21342470		+0.88128535			
<i>e</i>	0.2162496	<i>i</i>	1.59019	-0.08938434		+0.41216622			
<i>P</i>	5.77	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1996 09 05	691	0.0	0.0	1996 09 13	566	0.5-	0.1-	2000 04 05	704	0.0	0.1+
1996 09 05	691	0.3+	1.2+	1996 09 19	691	0.2-	0.1+	2000 04 05	704	1.1-	0.2-
1996 09 05	691	0.1-	0.2+	1996 09 19	691	0.2-	0.0	2000 04 05	704	0.8+	0.9+
1996 09 08	691	0.5+	0.4-	1996 09 19	691	0.1-	0.3-	2000 04 05	704	0.2-	0.4+
1996 09 08	691	0.6+	0.1-	1999 03 20	691	0.2-	0.0	2000 04 06	704	0.2+	0.5-
1996 09 08	691	0.5+	0.3-	1999 03 20	691	0.1-	0.2-	2000 04 06	704	0.2-	0.4-
1996 09 13	566	0.1+	0.3-	1999 03 20	691	0.1+	0.3-	2000 04 06	704	1.4+	0.0
1996 09 13	566	0.5-	0.5-	2000 04 05	704	0.6-	0.0	2000 04 06	704	0.4-	0.7-

1996 TK₄₀ = 1999 JM₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.29979		(2000.0)	P		Q		Williams	
<i>n</i>	0.21572574	ω	35.21412	-0.99638656		+0.07373054			
<i>a</i>	2.7533922	Ω	148.93319	-0.08357859		-0.93948532			
<i>e</i>	0.4157869	<i>i</i>	4.68649	+0.01511454		-0.33456111			
<i>P</i>	4.57	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

1996 10 07	809	1.0+	2.1+	1996 10 08	809	0.8-	0.6-	1999 05 15	691	0.5+	0.1+
1996 10 07	809	0.9+	0.9+	1996 10 10	809	0.4-	0.8-	1999 05 20	691	0.7-	0.3-
1996 10 07	809	0.5-	1.3+	1996 10 10	809	0.3+	1.7-	1999 05 20	691	0.0	0.3-
1996 10 08	809	0.5-	0.1+	1996 10 10	809	1.0+	0.7-	1999 05 20	691	0.1+	0.2-
1996 10 08	809	1.1-	0.5-	1999 05 15	691	0.1+	0.6+				

1996 XN₁₅ = 1998 HT₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	328.89288		(2000.0)	P		Q		Williams	
<i>n</i>	0.21253888	ω	280.50577	+0.97720342		-0.20563476			
<i>a</i>	2.7808471	Ω	91.37579	+0.20952581		+0.89400031			
<i>e</i>	0.0790431	<i>i</i>	3.02748	+0.03424040		+0.39809268			
<i>P</i>	4.64	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1995 08 28	809	1.5+	0.6-	1996 12 11	327	0.2+	0.2+	1998 04 17	691	0.3+	0.1+
1995 08 30	809	(2.7-	2.3-)	1996 12 11	327	0.2+	0.4+	1998 04 17	691	0.6+	0.2+
1995 08 31	809	(1.9-	2.2-)	1996 12 11	327	0.1+	0.2+	1998 04 20	704	1.5+	0.9-
1995 08 31	809	0.1+	0.5-	1996 12 18	327	0.7-	0.4-	1998 04 20	704	1.3+	0.7-
1995 09 01	809	0.5-	1.3-	1996 12 18	327	0.5-	0.3-	1998 04 20	704	0.2-	0.5-
1995 09 23	809	0.2-	0.3+	1996 12 18	327	0.3-	0.2-	1998 04 20	704	1.5+	0.5-
1995 09 23	809	(5.4+	2.3-)	1998 03 25	704	0.6+	0.5+	1998 04 24	691	1.4-	0.3+
1995 09 24	809	0.4-	1.0+	1998 03 25	704	(2.9-	1.3-)	1998 04 24	691	1.4-	0.1+
1996 12 10	327	0.3+	0.4-	1998 03 25	704	1.0-	0.7+	1998 04 24	691	1.4-	0.0
1996 12 10	327	0.5+	0.0	1998 03 25	704	1.1-	0.8-				
1996 12 10	327	0.3+	0.3-	1998 04 17	691	0.3+	0.4+				

1997 AE₇ = 1999 TM₃₆

Id. E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 282.69977		(2000.0)		P		Q	
<i>n</i>	0.26137522	ω	335.27679	−0.81566697	−0.57832085		
<i>a</i>	2.4226635	Ω	169.35050	+0.54356206	−0.77513182		
<i>e</i>	0.0980356	<i>i</i>	4.73171	+0.19805979	−0.25439272		
<i>P</i>	3.77	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 01 09	411	0.4−	0.6+	1997 03 09	691	0.0	0.1+	1999 10 13	699	0.4−	0.1−
1997 01 09	411	0.3+	0.0	1999 10 03	703	0.3+	0.1−	1999 11 01	703	0.9−	1.0+
1997 01 10	411	0.4+	0.0	1999 10 03	703	1.1−	0.2+	1999 11 01	703	0.1−	0.4+
1997 01 10	411	0.4−	0.5−	1999 10 03	703	0.5−	0.0	1999 11 01	703	0.4+	0.7+
1997 01 13	411	0.3−	0.8−	1999 10 03	703	0.5−	0.2−	1999 11 01	703	0.2−	0.4+
1997 01 13	411	0.6+	0.5−	1999 10 04	704	0.2+	0.8−	1999 11 15	704	0.6+	0.3−
1997 01 27	411	0.9+	0.3−	1999 10 04	704	1.5+	0.5+	1999 11 15	704	0.5+	0.2+
1997 01 27	411	0.0	0.1−	1999 10 04	704	0.7+	0.1−	1999 11 15	704	0.4+	0.2+
1997 02 14	411	0.1−	0.0	1999 10 04	704	0.8−	0.2−	1999 11 15	704	0.3−	0.2−
1997 02 14	411	0.4−	0.5+	1999 10 04	704	1.1+	0.3+	1999 11 15	704	0.1−	0.1−
1997 03 02	691	0.2−	0.3+	1999 10 12	699	0.4−	0.2+	2000 01 10	704	0.2−	0.4−
1997 03 02	691	0.0	0.3+	1999 10 12	699	0.1+	0.3+	2000 01 10	704	0.6+	0.1−
1997 03 02	691	0.2−	0.5+	1999 10 12	699	0.5−	0.6−	2000 01 10	704	0.4+	1.1−
1997 03 09	691	0.1−	0.3+	1999 10 13	699	0.3+	0.2+	2000 01 10	704	0.1+	0.8−
1997 03 09	691	0.1+	0.4+	1999 10 13	699	1.2−	0.2+				

1997 AV₁₅

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 330.42007		(2000.0)		P		Q	
<i>n</i>	0.36413457	ω	92.84752	−0.74006740	+0.58106254		
<i>a</i>	1.9422037	Ω	122.92767	−0.65430955	−0.73850233		
<i>e</i>	0.0696975	<i>i</i>	23.79297	+0.15549679	−0.34202433		
<i>P</i>	2.71	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 01 12	566	0.2−	0.0	2000 02 03	704	0.2+	0.1−	2000 03 18	704	0.4−	0.8−
1997 01 12	566	0.7−	0.1−	2000 02 03	704	0.1+	0.0	2000 03 18	704	0.8+	1.5−
1997 01 12	566	0.2−	0.1−	2000 02 03	704	0.3+	0.7+	2000 03 18	704	0.1+	0.3−
1997 01 14	566	0.1−	0.2+	2000 02 03	704	0.1+	0.1+	2000 03 26	699	0.1+	0.4+
1997 01 14	566	0.8−	0.2+	2000 02 25	703	0.3+	0.1−	2000 03 26	699	0.3+	0.0
1997 01 14	566	0.3−	0.1+	2000 02 25	703	0.2+	0.0	2000 03 26	699	0.4+	0.3+
1997 02 07	566	0.6+	0.1−	2000 02 25	703	0.6+	0.2+	2000 03 26	699	0.5+	0.8+
1997 02 07	566	0.8+	0.1−	2000 02 25	703	0.3+	0.6+	2000 04 10	699	0.1+	0.4+
1997 02 07	566	0.2+	0.1−	2000 03 04	704	0.5−	0.4−	2000 04 10	699	0.1−	0.0
1997 02 08	566	0.1+	0.0	2000 03 04	704	0.8−	0.1+	2000 04 10	699	0.0	0.1−
1997 02 08	566	0.4+	0.2−	2000 03 04	704	0.8−	0.4−	2000 04 10	699	0.3−	0.2+
1997 02 08	566	0.5+	0.2+	2000 03 04	704	0.5−	0.5−				
2000 02 03	704	0.3−	0.1+	2000 03 04	704	0.7−	0.9+				

1997 CE₁₈ = 2000 GM₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 264.49460		(2000.0)		P		Q	
<i>n</i>	0.12317461	ω	194.15259	+0.97948480	+0.18998475		
<i>a</i>	4.0005704	Ω	154.59571	−0.16628569	+0.95034258		
<i>e</i>	0.2761680	<i>i</i>	9.01153	−0.11383580	+0.24648483		
<i>P</i>	8.00	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 02 07	691	0.3−	0.1−	1997 02 15	691	0.5+	0.2−	2000 04 10	691	0.2+	0.1−
1997 02 07	691	0.0	0.2−	1997 02 15	691	0.1+	0.1−	2000 04 10	691	0.1−	0.1+
1997 02 07	691	0.1−	0.0	1997 03 14	691	0.1−	0.0	2000 04 10	691	0.1−	0.4−
1997 02 11	691	0.1+	0.1−	1997 03 14	691	0.3+	0.1+	2000 04 13	691	0.2+	0.1+
1997 02 11	691	0.3+	0.3+	1997 03 14	691	0.0	0.3+	2000 04 13	691	0.2+	0.1+
1997 02 11	691	0.4+	0.6−	1997 05 01	691	0.1−	0.0	2000 04 13	691	0.5−	0.2+
1997 02 15	691	1.2−	0.7+	1997 05 01	691	0.1+	0.2−				

1997 CE₂₁ = 1991 LT₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 135.22643		(2000.0)		P		Q	
<i>n</i>	0.28779055	ω	199.33860	+0.90423816	+0.42430211		
<i>a</i>	2.2720525	Ω	135.45597	−0.38218782	+0.85444726		
<i>e</i>	0.1867224	<i>i</i>	3.93829	−0.19048838	+0.29981260		
<i>P</i>	3.42	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 06 06	809	1.7+	0.5+	1997 02 06	691	0.6+	0.3+	1999 12 07	704	0.4+	0.5+
1991 06 06	809	0.8+	0.5+	1997 02 06	691	0.0	0.3−	1999 12 30	699	1.4+	1.5−
1991 06 06	809	0.7+	0.0	1997 02 13	691	0.1−	0.7+	1999 12 30	699	1.3+	0.8+
1991 06 06	809	(3.2−	0.5−)	1997 02 13	691	0.0	0.4+	1999 12 30	699	0.6+	0.3−
1991 06 06	809	(3.3−	0.6−)	1997 02 13	691	0.1−	0.2+	2000 01 05	704	0.4−	0.3−
1991 06 06	809	(2.6−	1.3−)	1998 06 24	704	0.9−	0.7+	2000 01 05	704	0.0	0.4−
1991 06 08	809	0.3+	0.0	1998 06 24	704	0.6+	1.8+	2000 01 05	704	0.3−	0.5−
1991 06 08	809	0.3+	0.3+	1998 06 24	704	0.2+	0.5+	2000 01 05	704	0.8−	0.4−
1991 06 08	809	0.5−	0.5−	1998 06 24	704	(1.2−	2.1+)	2000 01 05	704	0.2−	0.5−
1991 06 08	809	1.9−	0.9−	1999 12 07	704	0.5−	0.2+	2000 02 03	704	0.1+	0.2+
1991 06 08	809	1.3−	1.2−	1999 12 07	704	0.2−	0.2+	2000 02 03	704	0.2−	0.5+
1991 06 08	809	0.5−	1.2−	1999 12 07	704	0.5−	0.5+	2000 02 03	704	0.2+	0.7+
1997 02 06	691	0.0	0.4+	1999 12 07	704	0.1−	0.5+	2000 02 03	704	0.8−	0.4−

1997 DU = 2000 CE₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 301.08661		(2000.0)		P		Q	
<i>n</i>	0.27954120	ω	15.09782	−0.97130649	−0.23101704		
<i>a</i>	2.3165348	Ω	151.35502	+0.20416278	−0.93181487		
<i>e</i>	0.0662083	<i>i</i>	6.77138	+0.12198877	−0.27991459		
<i>P</i>	3.53	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 02 27	400	0.1−	1.0+	1999 10 10	704	0.2−	0.5+	2000 01 07	704	0.0	0.1−
1997 02 27	400	1.3+	0.5−	1999 11 04	704	0.3+	0.7−	2000 01 07	704	0.7−	0.6−
1997 03 03	400	0.5−	0.5+	1999 11 04	704	0.7+	0.2−	2000 01 07	704	0.5−	0.2+
1997 03 03	400	0.7−	0.4−	1999 11 04	704	0.0	0.4−	2000 02 02	704	0.1−	0.4+
1997 03 12	400	0.1+	0.2−	1999 11 04	704	1.0+	0.6−	2000 02 02	704	0.1+	0.3+
1997 03 12	400	0.5+	1.5−	1999 12 06	704	0.1+	0.3−	2000 02 02	704	0.4−	0.2+
1997 03 12	400	0.9−	0.6−	1999 12 06	704	0.1−	0.6−	2000 02 02	704	0.5−	0.0
1997 03 16	400	0.5−	0.2+	1999 12 06	704	0.1−	0.1−	2000 02 02	704	0.0	0.7+
1997 03 16	400	0.2+	0.6−	1999 12 06	704	0.2−	0.0	2000 02 04	704	0.1+	0.1−
1998 08 17	704	0.4+	0.2−	1999 12 06	704	0.1+	0.5−	2000 02 04	704	0.5+	0.2−
1998 08 17	704	1.5−	0.3−	1999 12 14	704	0.4+	0.5−	2000 02 04	704	0.3+	0.0
1998 08 17	704	1.3+	0.4−	1999 12 14	704	0.3+	0.2−	2000 02 04	704	0.8+	0.9+
1998 08 17	704	(3.6−	1.2−)	1999 12 14	704	0.0	0.1−	2000 03 05	704	1.5−	1.2+
1999 10 10	704	0.2+	0.2+	1999 12 14	704	0.4−	0.3−	2000 03 05	704	0.6+	0.0
1999 10 10	704	0.1−	1.0+	1999 12 14	704	0.2−	0.4−	2000 03 05	704	0.1+	1.3+
1999 10 10	704	0.4+	1.0−	2000 01 07	704	0.2−	0.5+	2000 03 05	704	0.5−	0.1+
1999 10 10	704	0.5+	0.0	2000 01 07	704	1.0−	0.0				

1997 GQ₁₄ = 2000 AO₃₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 54.99825		(2000.0)		P		Q	
<i>n</i>	0.27330804	ω	78.25856	+0.62015148	−0.78349759		
<i>a</i>	2.3516234	Ω	333.29111	+0.68140773	+0.56280904		
<i>e</i>	0.2365209	<i>i</i>	5.01493	+0.38871024	+0.26339611		
<i>P</i>	3.61	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 03	704	1.6+	0.4+	2000 01 04	704	0.1−	0.2−	2000 02 07	703	0.1−	0.2−
1997 04 03	704	0.4+	0.5−	2000 01 04	704	0.3+	0.3−	2000 02 11	704	0.1+	0.2−

2000 APR. 18

M.P.C. 39975

1997 04 06	704	0.5−	0.0	2000 01 04	704	0.2+	0.2−	2000 02 11	704	0.1+	0.1−
1997 04 06	704	0.6−	0.2−	2000 01 04	704	0.2+	0.2+	2000 02 11	704	0.0	0.4+
1997 04 07	704	0.5−	0.3+	2000 01 04	704	0.3+	0.2+	2000 02 11	704	0.1−	0.1+
1997 04 07	704	0.4−	0.2+	2000 01 06	699	0.1−	0.9+	2000 02 11	704	0.2−	0.3−
1999 11 16	704	0.1−	0.2−	2000 01 06	699	0.2−	0.6+	2000 03 04	704	0.1+	0.4+
1999 11 16	704	0.4−	0.0	2000 01 06	699	(2.1+	1.4+)	2000 03 04	704	0.0	0.0
1999 11 16	704	0.2−	0.4−	2000 01 30	704	0.1+	0.2+	2000 03 04	704	0.2−	0.1+
1999 11 16	704	0.1+	0.4+	2000 01 30	704	0.2−	0.1−	2000 03 04	704	0.1+	0.2−
1999 11 16	704	0.5+	0.3+	2000 01 30	704	0.2−	0.2−	2000 03 04	704	0.4−	0.2−
2000 01 03	704	0.1−	0.1+	2000 01 30	704	0.0	0.8−	2000 04 02	704	0.0	0.3−
2000 01 03	704	0.2+	0.0	2000 01 30	704	0.2−	0.3−	2000 04 02	704	0.5−	0.3−
2000 01 03	704	0.1−	0.6−	2000 02 07	703	0.2−	0.3+	2000 04 02	704	0.5+	0.6+
2000 01 03	704	0.2+	0.3−	2000 02 07	703	0.5+	0.5+	2000 04 02	704	0.2−	0.5−
2000 01 03	704	0.2−	0.4−	2000 02 07	703	0.2+	0.5+	2000 04 02	704	0.0	0.1+

1997 GS₁₄ = 2000 DV₃₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	230.86544		(2000.0)	P	Q
<i>n</i>	0.29213881	ω	306.94786	+0.34376658	+0.93866878
<i>a</i>	2.2494510	Ω	343.09770	−0.82943436	+0.29006361
<i>e</i>	0.1448116	<i>i</i>	5.31551	−0.44029898	+0.18645110
<i>P</i>	3.37	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1997 04 03	704	0.3−	0.0	2000 02 11	704	0.4−	0.2+	2000 03 05	704	0.1−	0.4+
1997 04 03	704	0.8−	0.4−	2000 02 29	704	0.2−	0.6−	2000 03 05	704	0.7−	0.5+
1997 04 05	704	0.2+	0.7−	2000 02 29	704	1.1+	0.9−	2000 03 05	704	0.3+	0.4−
1997 04 05	704	1.0+	0.2−	2000 02 29	704	0.3+	1.2−	2000 03 05	704	0.2−	0.1−
1997 04 07	704	0.2+	1.0+	2000 03 03	704	0.2−	0.1+	2000 03 09	704	1.1+	0.9+
1997 04 07	704	0.3−	0.3+	2000 03 03	704	0.1+	0.6−	2000 03 09	704	1.1−	0.8+
2000 02 11	704	0.5−	0.1+	2000 03 03	704	0.3+	0.0	2000 03 09	704	0.1−	0.4−
2000 02 11	704	1.0+	1.3+	2000 03 03	704	0.1−	0.2−	2000 03 09	704	1.3−	0.6+
2000 02 11	704	0.4−	0.2−	2000 03 05	704	1.0+	0.1−				

1997 GG₁₆ = 2000 DD₈₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	235.38245		(2000.0)	P	Q
<i>n</i>	0.30048022	ω	153.35124	+0.33807972	+0.94091050
<i>a</i>	2.2076258	Ω	136.40097	−0.86848418	+0.31999758
<i>e</i>	0.1041427	<i>i</i>	1.64002	−0.36254287	+0.11085563
<i>P</i>	3.28	<i>H</i>	16.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1997 04 03	704	1.2−	0.1−	2000 02 05	691	0.3+	0.2−	2000 03 04	704	0.3−	1.0+
1997 04 03	704	0.5+	0.2−	2000 02 05	691	0.2+	0.2−	2000 03 05	704	0.6−	0.2+
1997 04 05	704	0.2+	0.2+	2000 02 05	691	0.3+	0.3−	2000 03 05	704	0.4−	0.2+
1997 04 05	704	0.4−	0.2+	2000 02 29	704	1.4−	0.0	2000 03 05	704	0.7−	0.1−
1997 04 07	704	0.6+	0.2+	2000 02 29	704	0.1+	0.5−	2000 03 05	704	0.6−	0.7−
1997 04 07	704	0.3+	0.4−	2000 02 29	704	(0.7+	2.3−)	2000 03 05	704	0.2+	0.0
2000 02 03	691	0.5+	0.1+	2000 03 03	704	0.7+	1.3+	2000 03 11	704	0.0	0.8−
2000 02 03	691	0.7+	0.1+	2000 03 03	704	0.4+	1.0+	2000 03 11	704	0.8+	0.1−
2000 02 03	691	0.7+	0.2−	2000 03 03	704	0.7−	0.7−	2000 03 11	704	0.2+	0.7+
2000 02 04	691	0.2−	0.1−	2000 03 03	704	0.1−	1.4−	2000 03 11	704	0.9+	0.1+
2000 02 04	691	0.3−	0.0	2000 03 04	704	0.8−	0.4+				
2000 02 04	691	0.0	0.3−	2000 03 04	704	0.5+	0.6+				

1997 GF₂₂ = 2000 GO₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	301.32301		(2000.0)	P	Q
<i>n</i>	0.32187264	ω	253.34180	+0.26594404	+0.96352449
<i>a</i>	2.1086929	Ω	32.12918	−0.86163143	+0.25150276
<i>e</i>	0.3692561	<i>i</i>	3.22348	−0.43227890	+0.09147084
<i>P</i>	3.06	<i>H</i>	17.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1997 04 06	704	0.5+	0.0	1997 05 01	704	0.6+	0.1−	2000 04 12	704	0.4+	0.4−
1997 04 06	704	0.2−	0.2+	1997 05 05	704	0.2+	0.0	2000 04 12	704	1.5+	1.3−
1997 04 08	704	0.7+	0.1+	1997 05 05	704	0.1+	0.2−	2000 04 12	704	0.3+	0.8+
1997 04 08	704	0.4−	0.5+	1997 05 05	704	0.1+	0.1+	2000 04 12	704	0.1−	0.0
1997 04 30	704	0.2−	0.1+	1997 05 05	704	0.2+	0.1−	2000 04 12	704	1.7−	0.2+
1997 04 30	704	0.1+	0.5−	1997 05 05	704	0.1−	0.4−	2000 04 13	691	1.0−	0.1+
1997 04 30	704	0.2+	0.4−	2000 04 05	704	0.2+	0.3−	2000 04 13	691	0.9−	0.2+
1997 04 30	704	0.0	0.7−	2000 04 05	704	0.1−	0.6+	2000 04 13	704	0.3+	0.2+
1997 04 30	704	0.0	0.8−	2000 04 05	704	0.1−	0.4+	2000 04 13	691	0.9−	0.2+
1997 05 01	704	0.0	0.3+	2000 04 05	704	0.1−	0.3−	2000 04 13	704	0.3+	0.7−
1997 05 01	704	0.1+	0.3+	2000 04 05	704	0.3−	0.1−	2000 04 13	704	1.0+	1.1−
1997 05 01	704	0.5−	0.5+	2000 04 06	704	0.2+	0.3−	2000 04 13	704	1.2+	0.6−
1997 05 01	704	0.2+	0.2+	2000 04 06	704	0.3+	0.5+	2000 04 14	704	0.9+	0.1−
1997 05 01	704	0.4−	0.2+	2000 04 06	704	0.3+	0.2−	2000 04 14	704	0.7+	0.8−
1997 05 01	704	0.1−	0.5+	2000 04 06	704	0.1−	0.2+	2000 04 14	704	0.9−	0.7+
1997 05 01	704	0.6−	0.5+	2000 04 06	704	0.2+	0.3+	2000 04 14	704	1.6−	0.8+
1997 05 01	704	0.3−	0.1+	2000 04 09	568	0.5−	0.2+				
1997 05 01	704	0.0	0.2+	2000 04 09	568	0.1−	0.0				

1997 GG₂₃ = 2000 FF₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.61563		(2000.0)	P	Q
<i>n</i>	0.29420145	ω	20.98979	+0.32222602	−0.94041085
<i>a</i>	2.2389248	Ω	50.37939	+0.84721718	+0.23528042
<i>e</i>	0.1216298	<i>i</i>	8.10630	+0.42236648	+0.24550062
<i>P</i>	3.35	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1997 04 06	704	0.3−	0.6+	1997 05 08	327	1.8−	0.5−	2000 04 03	704	0.7+	0.6−
1997 04 06	704	0.4+	0.6+	1998 09 22	699	0.4−	0.9+	2000 04 04	704	0.3+	0.4−
1997 04 07	809	0.3−	0.9+	1998 09 22	699	0.3−	0.7+	2000 04 04	704	0.4+	0.1+
1997 04 07	809	0.3−	0.3+	1998 09 22	699	0.2−	0.3+	2000 04 04	704	0.1−	0.2−
1997 04 07	704	0.4+	0.5+	2000 01 07	704	0.9+	0.3+	2000 04 05	704	0.4+	0.1+
1997 04 07	809	0.3−	0.3+	2000 01 07	704	0.2+	0.4−	2000 04 05	704	0.3−	0.2−
1997 04 07	704	0.5−	0.6+	2000 01 07	704	1.6+	0.3−	2000 04 05	704	0.1+	0.0
1997 04 08	809	0.8+	1.7+	2000 01 07	704	1.0+	0.6−	2000 04 05	704	0.1+	0.1+
1997 04 08	809	0.5−	1.5+	2000 02 04	704	1.1+	0.5−	2000 04 05	704	0.6+	0.2−
1997 04 08	809	0.4+	1.3+	2000 02 04	704	0.1+	0.5+	2000 04 06	704	0.2−	0.2−
1997 04 08	704	0.6−	0.2−	2000 02 04	704	0.8−	1.3+	2000 04 06	704	1.0+	0.5+
1997 04 08	704	0.1+	0.1+	2000 03 05	704	0.3−	0.2+	2000 04 06	704	0.4+	0.4+
1997 04 30	704	0.4+	0.0	2000 03 05	704	0.4−	0.1−	2000 04 07	704	0.4+	0.3−
1997 04 30	704	0.0	0.7−	2000 03 05	704	0.4−	0.1−	2000 04 07	704	0.4−	0.1+
1997 04 30	704	0.8+	0.7−	2000 03 05	704	0.1+	0.0	2000 04 07	704	0.6−	0.1−
1997 04 30	704	0.7+	0.2−	2000 03 05	704	0.1+	0.1+	2000 04 07	704	0.2−	0.5+
1997 04 30	704	0.3+	0.0	2000 03 12	704	0.1−	0.2−	2000 04 07	704	0.7−	0.2−
1997 05 01	704	0.5+	0.1−	2000 03 12	704	0.4−	0.4+	2000 04 08	704	0.4−	0.3+
1997 05 01	704	0.4+	0.8−	2000 03 12	704	0.2−	0.1+	2000 04 08	704	0.3+	0.1−
1997 05 01	704	0.1+	0.1+	2000 03 12	704	0.3−	0.3+	2000 04 08	704	0.6−	0.4+
1997 05 01	704	0.1+	0.2+	2000 03 12	704	0.3+	0.7+	2000 04 08	704	0.4−	0.4+
1997 05 01	704	0.6+	0.1+	2000 03 28	704	0.1+	0.1+	2000 04 08	704	0.2+	0.7+
1997 05 05	704	0.4+	0.4−	2000 03 28	704	0.1−	0.0	2000 04 08	704	0.8+	0.5−
1997 05 05	704	0.1+	0.9−	2000 03 28	704	0.7−	0.9−	2000 04 08	704	0.2−	0.4−
1997 05 05	704	0.3+	0.3−	2000 03 28	704	0.4−	0.2+	2000 04 08	704	0.7−	0.1−
1997 05 05	704	0.1+	0.2−	2000 04 03	704	0.3+	0.2+	2000 04 08	704	0.5−	0.3+
1997 05 05	704	0.5+	0.4−	2000 04 03	704	0.3+	0.4−	2000 04 08	704	0.2−	0.3−
1997 05 08	327	1.0−	1.2−	2000 04 03	704	0.0	0.3+				
1997 05 08	327	1.6−	0.7−	2000 04 03	704	0.4−	0.9−				

1997 GO₃₅ = 2000 EQ₁₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	222.19130		(2000.0)	P		Q	
<i>n</i>	0.29367827	ω	257.77257	+0.76295064	+0.64363632		
<i>a</i>	2.2415831	Ω	62.13124	-0.56342177	+0.70780123		
<i>e</i>	0.1524998	<i>i</i>	3.91260	-0.31695778	+0.29111801		
<i>P</i>	3.36	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1997 04 06	704	(1.7- 2.5+)	1997 04 30	704	1.3+ 0.7-	2000 03 02	703	0.1- 1.6-
1997 04 06	704	1.7- 1.6+	1997 04 30	704	1.9+ 0.2-	2000 03 11	699	0.3- 0.2-
1997 04 07	809	0.4+ 1.1-	1997 04 30	704	1.2+ 0.1+	2000 03 11	699	0.8+ 0.4+
1997 04 07	809	1.0- 0.4-	1997 04 30	704	1.8- 1.0-	2000 03 11	699	0.2+ 0.3+
1997 04 07	809	0.2+ 0.4-	1997 04 30	704	0.1+ 1.3+	2000 03 11	699	0.8- 0.5+
1997 04 08	809	0.7+ 1.2-	1997 05 01	704	0.2+ 0.7+	2000 03 12	703	0.7+ 0.0
1997 04 08	809	0.7- 1.4-	1997 05 01	704	0.2- 0.2+	2000 03 12	703	0.0 0.7+
1997 04 08	809	1.2- 1.2-	1997 05 01	704	0.5- 0.4+	2000 03 12	703	0.1+ 0.1-
1997 04 11	704	0.1+ 1.4+	1997 05 01	704	0.3- 0.1-	2000 03 12	703	0.1- 0.5+
1997 04 11	704	1.1+ 0.6+	1997 05 01	704	0.3+ 0.3+	2000 03 12	704	0.3+ 0.8-
1997 04 30	704	0.2- 0.7+	2000 03 02	703	(0.8+ 2.5-)	2000 03 12	704	0.4+ 0.5+
1997 04 30	704	0.1- 1.4-	2000 03 02	703	1.0- 0.5-	2000 03 12	704	0.1+ 0.7+
1997 04 30	704	0.1+ 1.3+	2000 03 02	703	(2.3- 1.6-)			

1997 HN₉ = 1999 VJ₁₆₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	328.62370		(2000.0)	P		Q	
<i>n</i>	0.22413468	ω	243.55216	-0.25993552	-0.94637507		
<i>a</i>	2.6840875	Ω	222.98293	+0.95547591	-0.22334387		
<i>e</i>	0.1539642	<i>i</i>	16.34382	+0.13963995	-0.23343469		
<i>P</i>	4.40	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 30	704	0.0 0.0	1999 10 11	704	0.2- 1.0-	1999 11 05	704	0.0 0.2+
1997 04 30	704	0.7- 0.3+	1999 10 12	704	1.2+ 0.5+	1999 11 05	704	0.4- 0.1+
1997 04 30	704	0.3+ 0.9+	1999 10 12	704	0.2+ 0.1-	1999 11 05	704	0.8- 1.5-
1997 04 30	704	0.2+ 0.1+	1999 10 12	704	1.0+ 0.5-	1999 11 14	704	0.1+ 0.5+
1997 04 30	704	0.5+ 0.3+	1999 10 12	704	0.3+ 0.5-	1999 11 14	704	0.7- 0.4+
1997 05 01	704	0.6+ 0.4-	1999 10 21	704	0.3+ 0.4+	1999 11 14	704	0.4- 0.6+
1997 05 01	704	0.5- 0.3+	1999 10 21	704	0.2+ 0.3-	1999 11 14	704	0.5- 0.4+
1997 05 01	704	0.9- 0.3-	1999 10 21	704	0.3- 0.3-	1999 11 14	704	0.4- 0.7+
1997 05 01	704	0.4- 0.1+	1999 10 21	704	0.9+ 0.6-	1999 11 16	704	0.7+ 0.7+
1997 05 01	704	0.4+ 0.3+	1999 11 04	704	0.5- 0.5+	1999 11 16	704	0.1- 0.9-
1997 05 05	704	0.3+ 0.3+	1999 11 04	704	0.1- 0.6+	1999 11 16	704	0.3+ 0.0
1997 05 05	704	0.1- 0.1+	1999 11 04	704	0.3+ 0.4-	1999 11 16	704	0.7+ 1.3+
1997 05 05	704	0.3+ 0.7-	1999 11 04	703	0.5- 0.6-	1999 12 07	704	0.2- 0.1+
1997 05 05	704	0.5+ 0.9-	1999 11 04	704	0.3- 0.0	1999 12 07	704	0.2+ 1.0-
1997 05 05	704	0.4- 0.4+	1999 11 04	703	0.6- 0.1-	1999 12 07	704	0.7+ 0.8-
1999 10 11	704	0.2+ 0.1+	1999 11 04	704	0.7+ 0.8+	1999 12 07	704	0.1+ 0.4-
1999 10 11	704	0.5- 0.1+	1999 11 04	703	0.5- 0.1+	1999 12 07	704	0.6+ 0.3+
1999 10 11	704	0.0 0.0	1999 11 04	703	1.0- 0.5-			
1999 10 11	704	0.4- 0.6+	1999 11 05	704	0.5- 0.6+			

1997 JE = 1999 VA₁₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	254.49537		(2000.0)	P		Q	
<i>n</i>	0.26149432	ω	23.21244	-0.96949337	+0.24504611		
<i>a</i>	2.4219279	Ω	170.96607	-0.23038521	-0.90271655		
<i>e</i>	0.1250525	<i>i</i>	2.15939	-0.08369741	-0.35363151		
<i>P</i>	3.77	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 05 01	709	0.2- 0.5+	1997 05 03	709	0.0 0.5-	1999 11 09	691	1.0+ 1.3-
1997 05 01	709	0.0 0.3+	1997 05 03	709	0.1+ 0.9-	1999 11 09	691	0.2+ 0.5-
1997 05 01	709	1.0+ 0.4-	1997 05 03	709	0.2- 0.3-	1999 11 09	691	0.6- 0.2-

1997 05 01	709	0.1+ 0.5+	1997 05 03	709	0.3- 1.1-	1999 11 16	691	0.7- 0.3-
1997 05 01	709	0.0 0.6+	1997 05 03	709	0.5- 0.7-	1999 11 16	691	0.1- 0.8+
1997 05 01	709	0.1- 0.5+	1997 05 07	709	(4.1+ 4.9-)	1999 11 16	691	0.2+ 1.4+
1997 05 01	709	0.1+ 0.6+	1997 05 07	709	(3.3+ 3.9-)			
1997 05 01	709	0.1- 0.7+	1997 05 07	709	(3.2+ 4.4-)			

1997 JJ₁₃ = 1987 SN₁₃ = 2000 EV₈₃

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	250.01019		(2000.0)	P		Q	
<i>n</i>	0.28410070	ω	206.73731	+0.30525004	+0.95049513		
<i>a</i>	2.2916829	Ω	81.08227	-0.86282094	+0.30189902		
<i>e</i>	0.2159766	<i>i</i>	3.37446	-0.40294223	+0.07359339		
<i>P</i>	3.47	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1987 09 22	095	0.1+ 0.1-	2000 02 11	704	0.5- 0.1-	2000 03 11	699	0.5- 0.5+
1997 05 03	809	1.2- 0.1-	2000 02 11	704	0.2- 0.1-	2000 03 11	699	0.1+ 0.4+
1997 05 03	809	0.5+ 0.2+	2000 02 11	704	0.1+ 0.4+	2000 03 11	699	0.9+ 0.3+
1997 05 03	809	0.6- 1.2+	2000 02 25	703	0.3- 0.9-	2000 03 11	699	0.4- 0.1-
1997 05 04	809	0.6+ 0.3+	2000 02 25	703	0.6+ 1.3+	2000 03 12	704	0.5- 0.1+
1997 05 04	809	0.8+ 0.3+	2000 02 25	703	0.7+ 0.3+	2000 03 12	704	0.4- 0.1+
1997 05 04	809	0.2+ 1.2+	2000 02 25	703	0.7- 0.1-	2000 03 12	704	0.4+ 0.2+
1997 05 07	704	0.1- 0.7-	2000 03 05	704	0.1- 0.6+	2000 03 12	704	0.3+ 0.1-
1997 05 07	704	0.0 0.6-	2000 03 05	704	0.6+ 0.5-	2000 03 12	704	0.3+ 0.8+
1997 05 07	704	0.0 0.9-	2000 03 05	704	0.4- 0.1+	2000 04 03	699	0.0 0.2-
1997 05 07	704	0.2- 0.3-	2000 03 05	704	0.1- 0.2-	2000 04 03	699	0.2+ 0.2-
1997 05 07	704	0.1- 0.6-	2000 03 08	608	0.4- 0.3-	2000 04 03	699	0.0 0.2+
2000 02 11	704	1.4+ 0.6-	2000 03 08	608	0.2- 0.5-	2000 04 03	699	0.2+ 0.4-
2000 02 11	704	0.9- 0.5-	2000 03 08	608	0.4- 0.8-			

1997 LO₁₇ = 2000 DT₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.71618		(2000.0)	P		Q	
<i>n</i>	0.29021852	ω	301.56211	-0.33032549	-0.94370852		
<i>a</i>	2.2593628	Ω	167.69006	+0.89115745	-0.31786568		
<i>e</i>	0.0842316	<i>i</i>	4.65439	+0.31100396	-0.09151848		
<i>P</i>	3.40	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 06 08	809	0.9- 1.2-	1997 06 09	809	0.2- 0.3+	2000 02 27	691	0.1+ 0.3-
1997 06 08	809	0.7- 0.5+	1997 06 11	691	1.2+ 0.4+	2000 02 27	691	0.1- 0.1-
1997 06 08	809	0.6- 1.0-	1997 06 11	691	0.9+ 0.2+	2000 03 02	691	0.7- 0.3+
1997 06 09	809	0.0 0.1+	1997 06 11	691	1.0+ 0.3+	2000 03 02	691	0.0 0.2+
1997 06 09	809	0.7- 0.5+	2000 02 27	691	0.4+ 0.2-	2000 03 02	691	0.3+ 0.1+

1997 NE = 2000 GA₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.26649		(2000.0)	P		Q	
<i>n</i>	0.25748233	ω	320.15567	-0.99852216	-0.05060208		
<i>a</i>	2.4470213	Ω	216.95820	+0.05434340	-0.92608145		
<i>e</i>	0.1226676	<i>i</i>	1.88935	+0.00053723	-0.37391520		
<i>P</i>	3.83	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 07 01	691	0.2- 0.3+	2000 04 05	704	0.3- 0.2+	2000 04 06	704	0.6+ 0.6+
1997 07 01	691	0.2+ 0.5-	2000 04 05	704	0.1- 0.4-	2000 04 07	704	1.1- 0.1+
1997 07 01	691	0.1+ 0.0	2000 04 05	704	0.2+ 0.3-	2000 04 07	704	0.0 0.2-
1997 07 02	691	0.1- 0.0	2000 04 06	704	0.1- 0.3+	2000 04 07	704	0.5- 0.1+
1997 07 02	691	0.4- 0.4+	2000 04 06	704	0.0 0.5-	2000 04 07	704	0.3- 0.1-
1997 07 07	691	0.5+ 0.3-	2000 04 06	704	1.1+ 0.9-	2000 04 08	704	0.2- 0.3+
1997 07 07	691	0.0 0.3+	2000 04 06	704	0.5- 1.1+	2000 04 08	704	1.6+ 0.5-
1997 07 07	691	0.3+ 0.3+	2000 04 06	704	0.5+ 0.7-	2000 04 08	704	0.5- 1.2-
1997 07 11	691	0.1- 0.6-	2000 04 06	704	0.0 0.9+	2000 04 08	704	0.5+ 0.9+

2000 APR. 18

M.P.C. 39977

1997 07 11	691	0.3−	0.1+	2000 04 06	704	0.0	0.5+	2000 04 08	704	0.4−	0.1+
1997 07 11	691	0.1+	0.0	2000 04 06	704	0.1+	0.5+	2000 04 08	704	0.5+	0.4−
2000 04 05	704	0.5−	0.1−	2000 04 06	704	0.1−	0.3+	2000 04 08	704	0.4−	0.8−

1997 NO

Id. E. Howell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.69782		(2000.0)		P		Q				
<i>n</i>	0.26241586	ω	61.27516	−0.94026873			+0.33191005				
<i>a</i>	2.4162544	Ω	137.98427	−0.33824370			−0.88565408				
<i>e</i>	0.0590229	<i>i</i>	6.49387	−0.03854756			−0.32473462				
<i>P</i>	3.76	<i>H</i>	15.6		<i>G</i>	0.15		<i>U</i>	6		

Residuals in seconds of arc

1997 07 01	691	0.0	0.1−	1997 07 07	691	0.1+	0.3+	2000 04 09	699	0.0	0.2+
1997 07 01	691	0.0	0.4−	1997 07 07	691	0.0	0.1+	2000 04 09	699	0.0	0.1+
1997 07 01	691	0.0	0.0	2000 04 07	699	0.3+	0.5−	2000 04 09	699	0.1−	1.0+
1997 07 02	691	0.3+	0.1+	2000 04 07	699	0.1+	0.1+	2000 04 09	699	0.5−	0.2+
1997 07 02	691	0.1−	0.1+	2000 04 07	699	0.1+	0.6−				
1997 07 02	691	0.2−	0.2−	2000 04 07	699	0.0	0.5−				

1997 NG₁ = 2000 DK₅₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	29.12877		(2000.0)		P		Q				
<i>n</i>	0.21583882	ω	296.11200	−0.60049407			−0.79958769				
<i>a</i>	2.7524304	Ω	190.80469	+0.74829726			−0.55832392				
<i>e</i>	0.0259974	<i>i</i>	2.49141	+0.28188309			−0.22121016				
<i>P</i>	4.57	<i>H</i>	14.9		<i>G</i>	0.15		<i>U</i>	4		

Residuals in seconds of arc

1997 07 02	691	0.0	0.1−	2000 02 02	704	0.6−	0.9+	2000 03 11	704	0.2+	0.4−
1997 07 02	691	0.2−	0.2+	2000 02 02	704	0.2+	0.6+	2000 03 11	699	1.0+	0.1+
1997 07 02	691	0.1−	0.2+	2000 02 29	704	0.5−	0.2−	2000 03 11	704	0.0	0.4+
1997 07 07	691	0.1−	0.4+	2000 02 29	704	0.1+	0.6−	2000 03 11	704	0.5+	0.0
1997 07 07	691	0.3−	0.2+	2000 02 29	704	0.1+	0.8−	2000 03 11	699	0.4−	0.8−
1997 07 07	691	0.5+	0.1−	2000 02 29	704	0.3−	0.3−	2000 03 11	699	0.4−	0.3−
1997 07 11	691	0.4+	0.3−	2000 03 03	704	0.5−	0.7+	2000 03 11	699	0.4−	0.5−
1997 07 11	691	0.3−	0.2−	2000 03 03	704	0.8+	0.5−	2000 03 27	699	0.1−	0.7+
1997 07 11	691	0.1−	0.4−	2000 03 03	704	0.3+	0.0	2000 03 27	699	0.3+	0.5+
2000 02 02	704	0.6−	0.4−	2000 03 11	704	1.1+	0.1+	2000 03 27	699	0.3−	0.5+
2000 02 02	704	0.2+	0.1+	2000 03 11	704	0.3−	0.3−	2000 03 27	699	0.5−	0.7+

1997 NO₂ = 2000 GB₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.58145		(2000.0)		P		Q				
<i>n</i>	0.26721357	ω	336.07092	−0.99758498			+0.01190977				
<i>a</i>	2.3872453	Ω	204.90462	+0.00611040			−0.96632066				
<i>e</i>	0.1691043	<i>i</i>	9.35170	−0.06918717			−0.25706524				
<i>P</i>	3.69	<i>H</i>	16.4		<i>G</i>	0.15		<i>U</i>	5		

Residuals in seconds of arc

1997 07 03	691	0.4−	0.1+	1997 07 13	691	0.2+	0.0	2000 04 06	704	0.3−	0.2−
1997 07 03	691	0.2−	0.1+	1997 07 13	691	0.1−	0.5−	2000 04 06	704	0.4+	0.2−
1997 07 03	691	0.1+	0.1+	2000 04 05	704	0.2−	0.3−	2000 04 06	704	0.9−	0.3+
1997 07 08	691	0.3+	0.2+	2000 04 05	704	0.3+	0.6+	2000 04 06	704	0.4+	0.1+
1997 07 08	691	0.1+	0.1+	2000 04 05	704	0.9−	0.3+	2000 04 06	704	0.7+	0.2+
1997 07 08	691	0.1−	0.1−	2000 04 05	704	0.6+	0.7−				

1997 NP₂ = 2000 GS₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	333.87830		(2000.0)		P		Q				
<i>n</i>	0.29579187	ω	33.17801	−0.56041550			+0.82750934				
<i>a</i>	2.2308921	Ω	202.79436	−0.77774242			−0.53997172				
<i>e</i>	0.1491845	<i>i</i>	5.04944	−0.28469493			−0.15381429				
<i>P</i>	3.33	<i>H</i>	15.3		<i>G</i>	0.15		<i>U</i>	3		

Residuals in seconds of arc

1991 11 03	691	0.1+	0.5+	1997 07 16	620	1.2−	1.4+	1997 09 07	910	0.2+	0.7+
1991 11 03	691	0.3−	0.5+	1997 07 16	620	0.5−	1.6+	2000 03 14	704	0.0	0.4+
1997 07 04	620	0.6+	0.3−	1997 07 16	620	0.8−	1.7+	2000 03 14	704	0.2−	0.1−
1997 07 05	620	1.8+	0.7+	1997 07 24	620	0.2+	0.6−	2000 03 14	704	0.8−	1.2−
1997 07 07	620	1.0+	0.6−	1997 07 24	620	0.0	0.4−	2000 03 14	704	0.8−	0.6−
1997 07 07	620	0.6−	1.3−	1997 07 24	620	0.7−	1.5−	2000 03 14	704	0.5−	0.5−
1997 07 07	620	1.5−	1.6−	1997 08 13	620	0.4+	0.0	2000 04 06	704	0.8+	0.6+
1997 07 08	620	(2.4−	2.1−)	1997 08 13	620	0.1+	0.6+	2000 04 06	704	0.1−	0.4+
1997 07 10	620	0.4−	0.3−	1997 08 13	620	0.0	0.9+	2000 04 06	704	1.4+	1.1+
1997 07 10	620	0.3−	0.7−	1997 08 29	620	0.3−	0.4−	2000 04 06	704	0.9+	0.5+
1997 07 10	620	0.1+	1.1−	1997 08 29	620	0.4+	0.3+	2000 04 07	704	0.4+	0.4+
1997 07 11	620	0.1+	0.9−	1997 08 29	620	0.2−	0.4+	2000 04 07	704	0.3−	0.8−
1997 07 11	620	0.8+	0.5−	1997 09 07	910	0.2+	0.8+	2000 04 07	704	0.8−	1.5+
1997 07 11	620	0.7+	0.4+	1997 09 07	910	0.2+	0.6+				

1997 NQ₃ = 2000 EA₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	273.47999		(2000.0)		P		Q				
<i>n</i>	0.26558816	ω	115.86688	+0.12211779			+0.99243256				
<i>a</i>	2.3969754	Ω	161.13422	−0.92423764			+0.11842273				
<i>e</i>	0.1803399	<i>i</i>	2.27573	−0.36176238			+0.03246032				
<i>P</i>	3.71	<i>H</i>	14.5		<i>G</i>	0.15		<i>U</i>	3		

Residuals in seconds of arc

1996 02 17	010	(0.2+	2.6+)	2000 03 08	704	0.3+	0.4−	2000 04 05	704	0.2+	0.4−
1996 02 17	010	0.4−	1.1+	2000 03 08	704	0.3+	0.1−	2000 04 05	704	0.1+	0.3−
1996 02 17	010	1.0+	0.8+	2000 03 08	704	(0.6+	2.4−)	2000 04 05	704	1.1−	0.3+
1997 07 06	691	0.0	0.4−	2000 03 08	704	0.1−	0.2−	2000 04 05	704	0.3+	0.5+
1997 07 06	691	0.2−	0.1+	2000 03 09	732	1.1+	0.7+	2000 04 05	704	0.2−	0.2+
1997 07 06	691	0.1+	0.0	2000 03 09	732	(3.1+	0.5+)	2000 04 05	704	0.1+	0.0
1997 07 08	910	0.3+	0.4+	2000 03 10	732	0.4−	0.5−	2000 04 06	704	0.1−	0.2+
1997 07 08	910	0.3+	0.3+	2000 03 10	732	0.6−	0.3−	2000 04 06	704	0.2−	0.2+
1997 07 08	910	0.5+	0.2+	2000 03 10	732	1.1−	0.5+	2000 04 06	704	0.4+	0.0
1997 07 10	691	0.4−	0.0	2000 03 10	608	1.7−	0.8−	2000 04 06	704	0.4+	0.2+
1997 07 10	691	0.4−	0.3−	2000 03 10	608	0.6−	1.4−	2000 04 07	704	0.6+	0.4+
1997 07 10	691	0.2−	0.0	2000 03 10	608	0.7−	1.0−	2000 04 07	704	0.6+	0.0
2000 02 08	704	0.5+	0.2−	2000 03 11	704	0.1−	0.2−	2000 04 07	704	0.3+	0.1−
2000 02 08	704	1.1+	0.3+	2000 03 11	699	0.4−	0.3−	2000 04 07	704	0.9+	0.4+
2000 02 08	704	0.8−	0.4−	2000 03 11	704	0.2+	0.0	2000 04 07	704	0.1+	0.1+
2000 02 08	704	1.3+	0.4+	2000 03 11	704	0.2−	0.0	2000 04 08	704	0.1−	0.0
2000 02 27	703	0.2+	0.8−	2000 03 11	699	(1.0+	3.2−)	2000 04 08	704	0.7+	0.4+
2000 02 27	703	0.2+	0.1+	2000 03 11	704	0.1−	0.2+	2000 04 08	704	0.2−	0.5+
2000 02 27	703	0.6−	0.1+	2000 03 11	699	0.3−	0.6−	2000 04 08	704	0.2+	0.4+
2000 02 27	703	0.2+	0.1+	2000 03 11	704	0.4−	0.2−	2000 04 08	704	0.3−	0.4+
2000 03 03	704	0.3+	0.1−	2000 03 11	699	0.3−	0.4−	2000 04 10	704	0.0	0.5−
2000 03 03	704	0.3−	0.3−	2000 04 05	704	0.1+	1.2+	2000 04 10	704	0.2+	0.0
2000 03 03	704	0.3−	0.2−	2000 04 05	704	0.0	0.0	2000 04 10	704	0.1−	0.6+
2000 03 03	704	0.4−	0.2−	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.3+	0.2+
2000 03 03	704	0.1+	0.0	2000 04 05	704	0.1+	0.2−				

1997 OE₂ = 2000 EK₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 300.09711 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.27260418	ω	104.91134	-0.32032735	+0.94587432	
<i>a</i>	2.3556696	Ω	146.26286	-0.90119546	-0.28733112	
<i>e</i>	0.2004892	<i>i</i>	5.38054	-0.29195399	-0.15087277	
<i>P</i>	3.62	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 07 14	691	0.4+	0.6+	1997 08 13	104	0.2+	0.2+	2000 03 12	704	0.6-	0.2+
1997 07 14	691	0.1+	0.3+	1997 08 13	104	0.0	0.3+	2000 04 03	704	0.6-	0.3-
1997 07 14	691	0.1+	0.1+	1997 08 29	620	0.1-	1.5-	2000 04 03	704	0.6+	0.2+
1997 07 29	620	1.1-	0.0	1997 08 29	620	0.5-	0.3-	2000 04 03	704	0.3+	0.6+
1997 07 29	620	0.1-	0.1+	1997 09 03	620	(1.7+	3.2+)	2000 04 03	704	0.2-	0.3+
1997 07 29	620	1.3+	0.2+	1997 09 03	620	1.0+	0.9+	2000 04 03	704	(0.4-	2.3+)
1997 08 01	620	0.3-	1.3-	1997 09 04	620	0.3+	1.2-	2000 04 08	704	0.1-	0.4-
1997 08 02	620	0.9-	0.5-	2000 03 06	012	0.6+	0.1+	2000 04 08	704	1.4+	0.9-
1997 08 02	620	1.3-	0.1+	2000 03 06	012	0.4-	0.2-	2000 04 08	704	0.1+	0.3-
1997 08 11	620	0.1-	0.2+	2000 03 12	704	0.5-	0.1+	2000 04 08	704	0.0	0.6+
1997 08 11	620	0.5+	0.5+	2000 03 12	704	1.0-	0.5-	2000 04 08	704	1.1+	0.2+
1997 08 11	620	0.4+	0.7+	2000 03 12	704	0.4-	0.2+				
1997 08 13	104	0.3+	0.1+	2000 03 12	704	0.5-	0.4-				

1997 OG₂ = 2000 GV₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 255.99480 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.26799912	ω	121.11406	+0.63721915	+0.77066670	
<i>a</i>	2.3825780	Ω	188.47602	-0.71805123	+0.59135281	
<i>e</i>	0.2019345	<i>i</i>	1.92806	-0.27991817	+0.23743356	
<i>P</i>	3.68	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 07 30	910	0.1+	0.1+	2000 03 29	691	0.2+	0.1-	2000 04 06	704	0.4+	0.6-
1997 07 31	910	0.2+	0.1+	2000 03 29	691	0.1+	0.1+	2000 04 06	704	1.3+	0.2+
1997 07 31	910	0.1+	0.1+	2000 03 29	691	0.3+	0.1-	2000 04 06	704	0.8-	0.4-
1997 08 01	910	0.1-	0.2-	2000 03 29	691	0.6-	0.4-	2000 04 07	704	0.4-	0.1+
1997 08 02	910	0.2-	0.2-	2000 03 29	691	0.8-	0.4-	2000 04 07	704	0.5+	0.9+
1997 08 02	910	0.1-	0.2-	2000 03 29	691	0.7-	0.4-	2000 04 07	704	0.3+	1.4+
1997 08 03	910	0.0	0.2-	2000 04 05	704	0.1-	0.2-	2000 04 07	704	0.8+	0.5-
1997 08 03	910	0.0	0.1-	2000 04 05	704	0.4+	0.1+	2000 04 10	704	0.8+	0.3+
1997 08 03	910	0.0	0.2-	2000 04 05	704	0.1+	0.5+	2000 04 10	704	1.2-	0.4+
1997 08 04	910	0.2-	0.0	2000 04 05	691	0.2-	0.6-	2000 04 10	704	0.2+	0.4+
1997 08 04	910	0.2-	0.0	2000 04 05	704	0.1-	0.6+	2000 04 10	704	0.3+	0.5+
1997 08 04	910	0.1-	0.1-	2000 04 05	704	0.7+	0.8+	2000 04 10	704	1.1+	0.5+
1997 10 05	910	0.1-	0.5+	2000 04 05	691	0.3-	0.6-	2000 04 12	691	0.4-	0.6-
1997 10 05	910	0.1-	0.3+	2000 04 05	691	0.2-	0.6-	2000 04 12	691	0.3-	0.3-
1997 10 05	910	0.1-	0.3+	2000 04 06	704	0.9-	0.1+	2000 04 12	691	0.2-	0.4-

1997 PO₂ = 2000 CO₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 352.71889 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.23944462	ω	257.50110	-0.98568824	-0.12554991	
<i>a</i>	2.5684197	Ω	275.20670	+0.16084566	-0.90022107	
<i>e</i>	0.0653662	<i>i</i>	6.48624	-0.05047146	-0.41694033	
<i>P</i>	4.12	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 08 10	658	0.1+	0.2+	1998 11 11	704	0.0	0.9-	2000 03 08	704	1.1+	1.0+
1997 08 10	658	0.8+	0.5+	1998 11 11	704	1.3-	1.3+	2000 03 08	704	0.7+	0.2+
1997 08 10	658	0.1-	0.7+	1998 11 11	704	0.0	1.8+	2000 03 08	704	0.2-	0.6+
1997 08 11	658	0.4+	1.0+	2000 02 02	704	0.6+	0.8+	2000 03 10	608	0.1-	1.8-
1997 08 12	658	0.2-	0.6+	2000 02 02	704	0.5-	0.8+	2000 03 10	608	1.0-	1.7-
1997 08 12	658	0.5-	0.2+	2000 02 02	704	0.2+	0.5+	2000 03 10	608	0.3-	0.8-
1997 08 12	658	0.3-	0.3+	2000 02 02	704	0.1-	0.8+	2000 04 04	699	0.7-	0.2-

1997 08 14	658	0.1-	0.2+	2000 02 08	704	0.2+	0.2-	2000 04 04	699	0.1+	1.2+
1997 08 14	658	1.2-	0.4+	2000 02 08	704	0.5+	1.2+	2000 04 04	699	0.3+	0.3-
1997 08 14	658	0.2-	0.4+	2000 02 08	704	1.6+	1.4+	2000 04 04	699	0.9-	0.7+
1998 11 11	704	0.5+	0.2+	2000 03 08	704	0.6+	0.6+				

1997 PV₄ = 2000 GT₁₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 277.11293 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.28788007	ω	155.69239	+0.62914866	+0.77456430	
<i>a</i>	2.2715815	Ω	153.15252	-0.73463035	+0.61985372	
<i>e</i>	0.1839144	<i>i</i>	8.27231	-0.25394925	+0.12582331	
<i>P</i>	3.42	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 08 11	620	0.0	1.3+	1997 09 22	620	0.6+	0.7+	2000 04 07	704	0.0	1.1-
1997 08 12	620	0.7-	0.0	1997 09 22	620	0.1+	0.4+	2000 04 12	704	0.6+	0.2-
1997 08 13	620	0.3+	0.4-	1997 09 22	620	0.6-	0.2-	2000 04 12	704	0.1+	0.3+
1997 08 14	620	0.2+	1.2-	1997 10 03	620	0.3-	0.1+	2000 04 12	704	0.1+	0.5+
1997 08 14	620	0.0	0.6-	1997 10 03	620	0.1+	0.4-	2000 04 12	704	0.1+	0.0
1997 08 25	620	0.1+	0.3-	1997 10 04	620	0.1+	0.9-	2000 04 12	704	0.1-	0.5+
1997 08 25	620	0.4+	0.4+	2000 04 07	704	0.3-	0.2-				
1997 08 25	620	0.3-	0.8+	2000 04 07	704	0.7-	0.2+				

1997 PC₅ = 2000 GL₅₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 308.24888 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.27186537	ω	45.71378	-0.15894573	+0.98715046	
<i>a</i>	2.3599355	Ω	215.15027	-0.91375474	-0.15339252	
<i>e</i>	0.1739288	<i>i</i>	1.63617	-0.37388303	-0.04477393	
<i>P</i>	3.63	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1997 08 11	327	0.2+	0.5-	2000 04 05	704	0.4+	0.4+	2000 04 07	704	0.3+	0.2+
1997 08 11	327	0.1+	0.3-	2000 04 05	704	0.4+	0.5+	2000 04 07	704	0.3+	1.0+
1997 08 11	327	0.1+	0.3-	2000 04 06	704	0.1-	0.1-	2000 04 08	704	0.1+	0.1-
1997 08 13	327	0.2+	0.1+	2000 04 06	704	0.3+	0.0	2000 04 08	704	0.3-	0.5-
1997 08 13	327	0.2-	0.2+	2000 04 06	704	0.1-	0.2+	2000 04 08	704	0.2-	0.6-
1997 08 13	327	0.0	0.3+	2000 04 06	704	0.1+	0.5+	2000 04 08	704	0.4+	0.3-
1997 09 04	327	0.1-	0.5+	2000 04 06	704	0.2+	0.1-	2000 04 08	704	0.0	0.3+
1997 09 04	327	0.1-	0.4+	2000 04 07	699	0.2-	0.4+	2000 04 08	704	0.1-	0.7+
1997 09 04	327	0.1+	0.7+	2000 04 07	691	0.3+	0.7-	2000 04 08	704	0.3-	1.8+
1997 09 17	327	0.0	0.0	2000 04 07	699	0.5-	0.6+	2000 04 08	704	0.9-	1.7+
1997 09 17	327	0.0	0.8-	2000 04 07	704	0.7-	1.0-	2000 04 08	704	0.3+	0.2+
1997 09 17	327	0.3-	0.0	2000 04 07	704	0.9-	0.3-	2000 04 12	608	0.4-	1.5-
2000 04 04	699	0.1+	0.2-	2000 04 07	699	0.5-	0.6+	2000 04 12	608	0.5+	1.9-
2000 04 04	699	0.3+	0.1-	2000 04 07	691	0.1+	0.5-	2000 04 12	608	0.4+	1.4-
2000 04 04	699	0.1-	0.2+	2000 04 07	704	0.5-	0.0	2000 04 13	691	0.0	0.1-
2000 04 04	699	0.1+	0.4+	2000 04 07	704	0.2+	0.1-	2000 04 13	691	0.1-	0.3-
2000 04 05	704	0.3+	0.1-	2000 04 07	699	0.4-	0.5+	2000 04 13	691	0.3-	0.2-
2000 04 05	704	0.0	0.2+	2000 04 07	704	0.6+	0.2+				
2000 04 05	704	0.3+	0.1+	2000 04 07	691	0.7+	0.6-				

1997 PF₅ = 2000 GZ₃

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 251.18560 (2000.0)			<i>P</i>		<i>Q</i>	
<i>n</i>	0.26405091	ω	146.37628	+0.80554733	+0.59252855	
<i>a</i>	2.4062695	Ω	177.28493	-0.55188334	+0.75141988	
<i>e</i>	0.2055949	<i>i</i>	2.24001	-0.21568099	+0.29030688	
<i>P</i>	3.73	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 08 11	327	0.1-	0.1-	1997 09 13	327	0.1+	0.2+	2000 04 06	704	0.8+	0.4-
1997 08 11	327	0.1+	0.1-	1997 09 13	327	0.1+	0.2+	2000 04 06	704	0.5-	0.7-

2000 APR. 18

M.P.C. 39979

1997 08 11	327	0.1+	0.2-	1997 09 13	327	0.0	0.3-	2000 04 06	704	0.1+	0.2-
1997 08 13	327	0.2+	0.1-	1997 09 17	327	0.0	0.0	2000 04 06	704	0.1+	0.1+
1997 08 13	327	0.1-	0.2-	1997 09 17	327	0.1+	0.0	2000 04 07	704	0.1-	1.6-
1997 08 13	327	0.1+	0.0	1997 09 17	327	0.2+	0.2-	2000 04 07	704	0.2+	0.4+
1997 09 04	327	0.2-	0.2+	2000 04 05	704	0.1-	0.3-	2000 04 07	684	0.2-	0.3+
1997 09 04	327	0.2-	0.0	2000 04 05	704	0.5+	0.3-	2000 04 07	684	0.1-	0.2+
1997 09 04	327	0.0	0.0	2000 04 05	704	0.3+	0.1-	2000 04 07	704	0.8-	1.0+
1997 09 05	327	0.2-	0.0	2000 04 05	704	0.9+	0.0	2000 04 10	608	0.1-	0.3+
1997 09 05	327	0.1-	0.3+	2000 04 05	704	0.4+	0.4+	2000 04 10	608	0.1+	0.3+
1997 09 05	327	0.0	0.2+	2000 04 06	684	0.5-	0.4+	2000 04 10	608	0.1+	0.1+
1997 09 05	327	0.3-	0.1+	2000 04 06	684	0.4-	0.4+				
1997 09 13	327	0.3+	0.1-	2000 04 06	704	0.7-	0.0				

1997 QE

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	273.59164		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.28170453	ω	139.50977		+0.57431631		+0.81819224
a	2.3046598	Ω	165.47639		-0.77604194		+0.55459351
e	0.2292449	i	6.15181		-0.26061404		+0.15161627
P	3.50	H	15.9	G	0.15	U	4

Residuals in seconds of arc

1993 04 17	691	0.3-	0.9-	1997 08 24	124	1.3+	0.4+	2000 04 04	699	0.2+	0.1+
1993 04 17	691	0.1-	1.2-	1997 08 24	124	1.7+	0.8-	2000 04 04	699	0.4+	0.7+
1993 04 17	691	0.5-	0.9-	1997 08 29	627	0.0	0.5+	2000 04 04	699	0.2-	0.1+
1997 08 23	124	0.9+	0.3-	1997 08 29	627	0.1-	0.0	2000 04 07	704	0.1-	0.0
1997 08 23	124	1.8-	1.3-	1997 08 29	627	0.5-	0.5+	2000 04 07	704	0.8+	0.0
1997 08 23	124	1.7+	1.1-	1997 09 02	958	0.3+	0.8+	2000 04 07	699	0.0	0.3+
1997 08 23	124	0.2-	0.9-	1997 09 02	958	0.4-	0.8+	2000 04 07	699	0.7-	1.3+
1997 08 24	627	0.9-	0.0	1997 09 03	132	1.8-	0.7+	2000 04 07	699	0.6+	0.4+
1997 08 24	627	1.2-	0.5+	1997 09 03	132	0.5-	0.7+	2000 04 07	704	0.5+	0.1+
1997 08 24	627	(3.2-	0.7+)	1997 09 19	132	1.6+	0.6+	2000 04 07	699	0.7-	0.1-
1997 08 24	124	0.1+	0.4-	2000 04 04	699	0.2+	1.0+				

1997 QH = 1996 KA₈ = 2000 DP₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	168.69130		(2000.0)		P		Q
n	0.20426955	ω	144.48910		+0.98457901		+0.17453995
a	2.8554000	Ω	205.46672		-0.16619086		+0.91207413
e	0.0954281	i	1.57668		-0.05463298		+0.37102101
P	4.83	H	14.3	G	0.15	U	4

Residuals in seconds of arc

1996 05 22	809	(1.9+	3.9+)	1997 08 25	367	0.9+	0.5-	2000 02 25	704	0.7+	0.4-
1996 05 22	809	0.1-	1.3+	1997 08 25	402	0.0	0.1-	2000 02 29	704	0.3-	0.6-
1996 05 22	809	(3.0+	1.6+)	1997 08 25	402	0.6+	0.5+	2000 02 29	704	0.2+	0.9+
1996 05 23	809	0.8+	0.8-	1997 08 25	402	0.7+	0.2-	2000 02 29	704	0.6+	0.5+
1996 05 23	809	0.5-	0.2+	1997 08 27	402	0.2-	0.1-	2000 02 29	704	0.0	0.0
1996 05 23	809	0.2-	1.1-	1997 08 27	402	0.5-	0.0	2000 03 03	704	0.7+	0.6+
1997 08 22	367	1.2-	0.3-	1997 08 27	402	0.3-	0.2-	2000 03 03	704	0.0	0.6+
1997 08 22	367	1.3-	0.4+	2000 02 02	691	0.2-	1.1-	2000 03 03	704	0.2-	0.6+
1997 08 23	367	1.2+	0.1+	2000 02 02	691	0.1+	0.9-	2000 03 03	704	0.2-	0.5+
1997 08 23	367	0.6+	0.5+	2000 02 02	691	0.4-	0.7-	2000 03 03	704	0.2+	0.8+
1997 08 25	367	0.8-	0.7+	2000 02 25	704	1.0-	0.4-				
1997 08 25	367	0.3+	0.1-	2000 02 25	704	0.0	0.2+				

1997 QL₁ = 2000 GK₂₁

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	280.51207		(2000.0)		P		Q
n	0.26867314	ω	79.92254		+0.18253485		+0.98270695
a	2.3785916	Ω	200.67373		-0.93306333		+0.16316370
e	0.1513708	i	5.05605		-0.30995781		+0.08754804
P	3.67	H	16.9	G	0.15	U	4

Residuals in seconds of arc

1997 08 30	046	0.4-	0.3-	1997 09 08	910	0.9+	0.8+	2000 04 06	704	0.3+	0.0
1997 08 30	046	0.4+	0.0	1997 09 08	910	0.5+	0.7+	2000 04 06	704	0.6+	0.8+
1997 08 30	046	0.2+	0.7-	1997 09 10	046	0.2+	0.2+	2000 04 06	699	0.3+	0.5+
1997 08 30	046	0.2-	0.0	1997 09 10	046	0.4-	0.1-	2000 04 06	704	0.2+	0.8+
1997 08 31	046	0.1+	1.1-	1997 09 10	046	0.3-	0.2-	2000 04 06	699	0.3-	0.6+
1997 08 31	046	0.3-	0.8-	1997 09 10	046	0.2+	0.3+	2000 04 06	704	0.6-	0.4-
1997 08 31	046	0.0	0.3-	2000 03 25	691	0.6-	0.6-	2000 04 08	691	0.5-	0.2-
1997 09 01	046	0.2-	0.5-	2000 03 25	691	0.4-	0.4-	2000 04 08	691	0.6-	0.4-
1997 09 01	046	0.0	0.1-	2000 03 25	691	0.6-	0.6-	2000 04 08	691	0.2-	0.2-
1997 09 01	046	0.0	0.4-	2000 04 05	704	1.4+	0.8+	2000 04 10	691	0.4+	0.2-
1997 09 01	046	0.1+	0.3-	2000 04 05	704	0.2-	1.0+	2000 04 10	691	0.2+	0.8-
1997 09 02	046	0.1-	0.8+	2000 04 05	704	0.9+	0.5+	2000 04 10	691	0.6+	0.1-
1997 09 02	046	0.1+	0.8+	2000 04 05	704	0.8+	0.1+	2000 04 11	691	0.3-	0.2-
1997 09 02	046	0.1-	0.4+	2000 04 05	704	0.1+	0.3-	2000 04 11	691	0.5-	0.5-
1997 09 02	046	0.9-	0.5+	2000 04 06	699	0.5-	0.3+	2000 04 11	691	0.6-	0.3-
1997 09 08	910	0.4+	0.6+	2000 04 06	699	0.1+	0.1-				

1997 QJ₃ = 2000 GZ₃₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	240.17052		(2000.0)		P		Q
n	0.25510149	ω	126.55624		+0.75579796		+0.65440510
a	2.4622230	Ω	192.62338		-0.62924677		+0.71618830
e	0.1186227	i	6.00908		-0.18115724		+0.24254545
P	3.86	H	14.7	G	0.15	U	1

Residuals in seconds of arc

1996 03 20	691	0.1-	0.2-	1997 09 19	402	0.1-	0.3+	2000 04 06	704	0.6-	0.2-
1996 03 20	691	0.0	0.1-	1997 09 19	402	0.3-	0.3+	2000 04 06	704	0.0	0.0
1996 03 20	691	0.0	0.1-	1998 12 22	704	(2.9+	0.9+)	2000 04 06	699	0.2-	0.3+
1996 03 22	566	(3.5+	1.5+)	1998 12 22	704	0.6+	0.8+	2000 04 06	704	0.1-	0.3-
1996 03 22	566	(2.7+	1.5+)	1998 12 22	704	0.8-	0.7+	2000 04 06	699	0.4+	0.4+
1996 03 22	566	(3.4+	1.3+)	1998 12 22	704	0.2+	0.4+	2000 04 06	704	0.1-	0.1-
1997 08 28	360	0.2+	0.3+	2000 03 04	703	0.3+	0.0	2000 04 06	699	0.1-	0.3+
1997 08 28	360	0.2+	0.2+	2000 03 04	703	0.6+	0.5-	2000 04 06	704	0.3+	0.2-
1997 08 28	360	0.3+	0.4+	2000 03 04	703	0.3+	0.8+	2000 04 06	691	0.8-	0.2-
1997 08 28	402	0.4+	0.3+	2000 03 04	703	0.2+	0.0	2000 04 06	691	0.9-	0.3-
1997 08 28	402	0.1+	0.4+	2000 03 09	704	0.7+	1.0-	2000 04 06	691	0.8-	0.3-
1997 08 28	402	0.2+	0.4+	2000 03 09	704	0.5+	0.0	2000 04 07	704	0.5+	0.6+
1997 09 01	566	0.2-	0.4-	2000 03 09	704	0.9+	1.8+	2000 04 07	704	0.1+	0.5+
1997 09 01	566	0.4-	0.5-	2000 03 25	691	0.4-	0.2-	2000 04 07	704	0.1+	0.3+
1997 09 01	566	0.0	0.3+	2000 03 25	691	0.4-	0.1-	2000 04 07	704	0.4+	0.1-
1997 09 02	402	0.2-	0.2+	2000 03 25	691	0.3-	0.1-	2000 04 07	704	0.4-	0.6+
1997 09 02	402	0.0	0.2+	2000 04 05	704	0.1-	0.0	2000 04 10	704	0.5+	0.5+
1997 09 02	402	0.3-	0.2+	2000 04 05	704	0.0	0.3-	2000 04 10	704	0.2+	0.5+
1997 09 04	402	0.2-	0.3-	2000 04 05	704	0.1-	0.2-	2000 04 10	704	0.4+	0.5+
1997 09 04	402	0.1-	0.2-	2000 04 05	704	0.1-	0.6-	2000 04 10	704	0.2+	0.3+
1997 09 04	402	0.0	0.2-	2000 04 05	704	0.2+	0.6-	2000 04 10	704	0.0	0.3+
1997 09 19	402	0.1-	0.3+	2000 04 06	699	0.3-	0.1+				

1997 RB = 2000 DV₁₀₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	267.12803	(2000.0)	P		Q	
<i>n</i>	0.18013034	ω	254.82470	-0.49289049	+0.86814867	
<i>a</i>	3.1051182	Ω	345.21750	-0.68496464	-0.42833781	
<i>e</i>	0.0441105	<i>i</i>	13.16467	-0.53654674	-0.25068826	
<i>P</i>	5.47	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 01	046	0.4-	0.3+	1997 09 11	046	0.5+	0.6+	2000 01 06	704	1.0-	0.6-
1997 09 01	046	0.8-	0.3+	1997 09 12	046	0.4-	0.0	2000 02 11	704	0.4-	0.6+
1997 09 01	046	0.5-	0.1+	1997 09 12	046	0.0	0.1+	2000 02 11	704	0.0	0.4-
1997 09 01	046	1.0-	0.1+	1997 09 12	046	0.1-	0.0	2000 02 11	704	0.3+	0.2-
1997 09 02	046	0.4+	0.1-	1997 09 22	046	0.0	0.4-	2000 02 11	704	1.1+	0.3-
1997 09 02	046	0.0	0.2+	1997 09 22	046	1.1-	0.3-	2000 02 28	704	0.4-	0.6-
1997 09 02	046	0.5+	0.2+	1997 09 22	046	0.1+	0.4-	2000 02 28	704	0.4+	0.0
1997 09 03	046	0.0	0.1+	1997 10 05	046	0.3+	0.5-	2000 02 28	704	0.1-	0.7+
1997 09 03	046	0.4-	0.1-	1997 10 05	046	0.1+	0.2+	2000 02 28	704	0.7+	0.1-
1997 09 03	046	0.1-	0.1+	1997 10 05	046	0.1-	0.4-	2000 03 04	704	0.1+	1.2+
1997 09 06	910	0.8+	0.0	1997 10 06	046	0.0	0.3-	2000 03 04	704	0.6-	0.6+
1997 09 06	910	1.0+	0.0	1997 10 06	046	0.1-	0.2-	2000 03 04	704	0.4-	0.2+
1997 09 06	910	0.7+	0.1+	1997 10 06	046	0.2+	0.4-	2000 03 04	704	0.1-	0.3+
1997 09 11	046	0.2+	0.5+	2000 01 06	704	0.5+	0.2-				
1997 09 11	046	0.0	0.6+	2000 01 06	704	0.2+	0.5-				

1997 RS₂ = 2000 DL₃₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	217.74875	(2000.0)	P		Q	
<i>n</i>	0.18225134	ω	315.35690	+0.48002354	+0.87641033	
<i>a</i>	3.0809801	Ω	343.21181	-0.76300673	+0.39544847	
<i>e</i>	0.0305867	<i>i</i>	7.66020	-0.43289505	+0.27481891	
<i>P</i>	5.41	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 05	684	0.3-	0.0	2000 02 11	704	0.2-	0.3-	2000 03 03	704	0.0	0.2-
1997 09 05	684	0.1+	0.1+	2000 02 11	704	0.7-	0.2+	2000 03 03	704	0.1+	0.1-
1997 09 05	684	0.2+	0.3+	2000 02 11	704	0.7-	0.8-	2000 03 03	704	0.1+	0.0
1997 09 07	684	0.2+	0.2+	2000 02 29	704	0.8+	0.4+	2000 03 05	704	0.2-	0.5-
1997 09 07	684	0.1+	0.6-	2000 02 29	704	1.3-	0.4+	2000 03 05	704	0.1+	0.1+
1997 09 07	684	0.1+	0.1+	2000 02 29	704	1.3+	0.1-	2000 03 05	704	0.1-	0.8+
1997 09 08	684	0.2-	0.1-	2000 02 29	704	0.3+	0.3+	2000 04 05	691	0.5-	0.3-
1997 09 08	684	0.4-	0.1-	2000 02 29	704	0.7+	0.3+	2000 04 05	691	0.2-	0.4-
1997 09 08	684	0.2+	0.0	2000 03 03	704	0.4+	0.2+	2000 04 05	691	0.2-	0.3-

1997 RF₃ = 2000 GG₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	315.70037	(2000.0)	P		Q	
<i>n</i>	0.27521880	ω	82.75806	-0.16829321	+0.98572839	
<i>a</i>	2.3407264	Ω	177.54193	-0.93802592	-0.15886340	
<i>e</i>	0.2299941	<i>i</i>	5.50486	-0.30296000	-0.05569519	
<i>P</i>	3.58	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 05	816	0.3+	0.1+	1997 09 10	684	0.5+	0.2+	2000 03 01	703	0.7-	0.2-
1997 09 05	816	0.1+	0.0	1997 09 22	816	0.4-	0.6+	2000 03 01	703	0.7-	0.3+
1997 09 05	816	0.4+	0.2+	1997 09 22	816	0.5-	0.1-	2000 03 01	703	1.0+	0.9+
1997 09 05	816	0.3+	0.2-	1997 09 22	816	0.3-	0.2+	2000 04 07	704	0.4-	0.1-
1997 09 08	658	0.1-	0.4-	1997 09 22	540	0.6-	0.7-	2000 04 07	704	0.1-	0.3+
1997 09 08	658	0.1+	0.4-	1997 09 22	540	0.4-	0.3-	2000 04 07	704	0.5+	0.6+
1997 09 08	658	0.5+	0.5-	1997 09 23	816	0.0	0.3+	2000 04 07	704	0.8+	0.2+
1997 09 09	816	0.2+	0.0	1997 09 23	816	0.2-	0.3+	2000 04 07	704	0.3+	0.3+
1997 09 09	816	0.2+	0.0	1997 09 23	816	0.1-	0.2+	2000 04 07	120	0.7+	0.1-
1997 09 09	816	0.2+	0.1-	1997 09 23	684	0.2-	0.4-	2000 04 08	120	0.3-	0.2-
1997 09 09	816	0.2+	0.4+	1997 09 23	684	0.7-	0.6-	2000 04 08	120	0.3+	0.1-
1997 09 09	684	0.5+	0.6+	1997 09 23	684	0.3-	0.4-	2000 04 08	704	0.0	0.4-

1997 09 09	684	0.5+	0.3+	1997 09 25	816	0.7-	0.2+	2000 04 08	704	0.7-	0.4+
1997 09 10	816	0.7+	0.2-	1997 09 25	816	0.4-	0.3+	2000 04 08	704	0.8-	0.4-
1997 09 10	816	0.3+	0.1-	1997 09 28	816	0.9-	0.7+	2000 04 08	120	0.7-	0.0
1997 09 10	816	0.2+	0.0	1997 09 28	816	0.4-	0.4+	2000 04 08	120	0.1+	0.7-
1997 09 10	816	0.0	0.3-	1997 09 28	816	0.2+	0.1+	2000 04 09	120	0.1+	0.4-
1997 09 10	684	0.4+	0.0	1997 09 28	816	0.3-	0.5+				
1997 09 10	684	0.4+	0.2+	2000 03 01	703	1.1+	1.0+				

1997 SP = 2000 DU₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	262.35624	(2000.0)	P		Q	
<i>n</i>	0.21716761	ω	104.63439	-0.01369520	+0.99888519	
<i>a</i>	2.7411913	Ω	164.36943	-0.96977195	-0.00226083	
<i>e</i>	0.1488689	<i>i</i>	9.65226	-0.24362840	-0.04715149	
<i>P</i>	4.54	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 20	557	0.6-	0.7+	2000 02 29	704	0.2+	0.1+	2000 03 11	699	1.3-	1.6+
1997 09 20	557	0.0	0.6+	2000 02 29	704	0.2+	0.4+	2000 03 11	699	1.0+	0.8-
1997 09 20	557	0.2+	0.1-	2000 03 03	704	0.1+	0.0	2000 03 25	691	0.5-	0.2-
1997 09 20	557	0.0	0.2-	2000 03 03	704	0.0	0.4-	2000 03 25	691	0.3-	0.2-
1997 09 21	557	0.0	0.4+	2000 03 03	704	0.1+	0.2-	2000 03 25	691	0.6-	0.3-
1997 09 21	557	0.0	0.1+	2000 03 03	704	0.4+	0.3-	2000 03 29	691	0.0	0.3-
1997 09 24	557	0.2+	0.3-	2000 03 03	704	0.1-	0.6-	2000 03 29	691	0.0	0.3-
1997 09 24	557	0.1+	0.2-	2000 03 11	704	0.4+	0.3+	2000 03 29	691	0.1+	0.3-
1997 09 24	557	0.2+	0.2-	2000 03 11	704	0.2-	0.5-	2000 03 30	691	0.5-	0.9-
1997 09 28	557	0.3-	0.4-	2000 03 11	704	0.8+	0.5-	2000 03 30	691	0.5-	0.4-
1997 09 28	557	0.2+	0.3-	2000 03 11	704	0.1-	0.5+	2000 03 30	691	0.6-	0.4-
2000 02 06	704	0.3-	0.2-	2000 03 11	699	0.8-	1.1+	2000 04 03	699	0.1-	0.0
2000 02 06	704	0.8-	0.5-	2000 03 11	704	0.7+	0.1+	2000 04 03	699	0.3-	0.9+
2000 02 06	704	0.1+	0.3+	2000 03 11	699	1.2+	0.0	2000 04 03	704	0.5-	0.1-
2000 02 06	704	0.8-	0.2+	2000 03 11	699	0.7-	0.1+	2000 04 03	699	0.2+	0.4+
2000 02 29	704	0.6+	0.6-	2000 03 11	699	0.4+	0.5+	2000 04 03	704	0.8+	0.1-
2000 02 29	704	0.0	0.3-	2000 03 11	699	1.1-	1.7+	2000 04 03	699	1.0+	0.1-
2000 02 29	704	1.0+	0.5-	2000 03 11	699	0.7+	0.5+	2000 04 03	704	0.0	0.7+

1997 SR₃ = 2000 GT₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	224.31124	(2000.0)	P		Q	
<i>n</i>	0.22818142	ω	314.45140	+0.85727976	+0.51475146	
<i>a</i>	2.6522586	Ω	14.57727	-0.46021913	+0.77497280	
<i>e</i>	0.2108957	<i>i</i>	2.30358	-0.23080243	+0.36667164	
<i>P</i>	4.32	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1995 02 05	691	0.0	0.2-	1997 09 28	816	0.2-	0.2+	2000 02 27	691	0.5-	0.3-
1995 02 05	691	0.1+	0.3+	1997 09 30	327	0.0	0.3-	2000 02 27	691	0.2-	0.2-
1995 02 05	691	0.0	0.4+	1997 09 30	327	0.2-	0.2+	2000 02 27	691	0.5-	0.2-
1997 09 25	816	0.2-	0.1+	1997 09 30	327	0.3-	0.2-	2000 04 05	704	0.3+	0.8+
1997 09 25	816	0.2-	0.2+	1997 10 11	816	0.2+	0.3+	2000 04 05	704	0.2+	0.3+
1997 09 25	816	0.3-	0.3+	1997 10 11	816	0.2+	0.3+	2000 04 05	704	1.4+	0.5-
1997 09 25	816	0.4-	0.2+	1997 10 11	816	0.5+	0.3+	2000 04 05	704	0.4+	0.0
1997 09 25	816	0.4-	0.2+	1997 10 20	816	0.6+	0.0	2000 04 05	704	0.9+	0.5+
1997 09 27	816	0.1+	0.0	1997 10 20	816	0.2+	0.1-	2000 04 06	704	0.1-	0.7+
1997 09 27	816	0.1-	0.1+	1997 10 20	816	0.7+	0.3+	2000 04 06	704	0.3-	0.5+
1997 09 27	816	0.1-	0.0	1997 10 26	816	0.0	0.5-	2000 04 06	704	0.1-	1.0+
1997 09 28	816	0.3-	0.1+	1997 10 26	816	0.2-	0.3-	2000 04 06	704	1.0-	1.2-
1997 09 28	816	0.3-	0.2+	1997 10 26	816	0.0	0.4-				

1997 SY₃ = 1997 RT₆ = 1998 XY₆₄ = 2000

2000 APR. 18

M.P.C. 39981

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.15053		(2000.0)	P	Q
<i>n</i>	0.19113875	ω	0.04330	+0.63624042	+0.75975657
<i>a</i>	2.9847197	Ω	309.46941	-0.70788120	+0.50581704
<i>e</i>	0.0932112	<i>i</i>	9.99962	-0.30676105	+0.40855730
<i>P</i>	5.16	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 07	910	0.6+	0.4+	1999 12 09	691	0.1+	0.4-	2000 02 29	704	0.3+	0.1-
1997 09 07	910	0.7+	0.3+	1999 12 09	691	0.5+	0.2-	2000 02 29	704	0.0	0.4-
1997 09 07	910	0.8+	0.3+	2000 01 07	704	1.1-	1.1-	2000 02 29	704	0.1-	0.5-
1997 09 09	910	0.3+	0.2+	2000 01 07	704	1.1-	1.7-	2000 03 05	704	0.9+	0.5+
1997 09 09	910	0.2+	0.2+	2000 01 07	704	0.4-	0.2-	2000 03 05	704	0.3-	0.5-
1997 09 10	910	0.2+	0.2+	2000 01 07	704	0.6-	0.4+	2000 03 05	704	0.5-	0.0
1997 09 25	610	0.2+	0.2+	2000 02 01	703	1.9-	0.0	2000 03 05	704	0.7+	0.7+
1997 09 25	610	0.4+	0.0	2000 02 01	703	0.3+	1.2+	2000 03 05	704	0.2+	0.2+
1997 09 25	610	0.7+	0.2-	2000 02 01	703	0.3+	0.3+	2000 03 06	704	0.0	0.8+
1997 09 26	610	1.5-	0.3+	2000 02 01	703	0.2-	0.2+	2000 03 06	704	0.5+	0.0
1997 09 26	610	2.0-	0.2+	2000 02 02	704	0.3+	0.5+	2000 03 06	704	0.3+	0.3+
1997 09 26	610	(2.5- 0.0)		2000 02 02	704	0.3-	0.1+	2000 03 06	704	0.2+	0.9-
1997 09 27	610	1.0-	0.4+	2000 02 02	704	0.4+	0.6+	2000 03 06	704	0.5+	0.1-
1997 09 27	610	0.9-	0.4+	2000 02 04	704	0.1+	0.1-	2000 03 08	704	0.1+	0.2-
1997 09 27	610	0.8-	0.3+	2000 02 04	704	0.6+	0.5+	2000 03 08	704	0.5-	0.1+
1998 11 16	704	1.5-	0.9-	2000 02 04	704	0.5+	0.3+	2000 03 08	704	0.2-	0.6+
1998 11 16	704	1.6+	1.3+	2000 02 04	704	1.3+	0.3-	2000 03 08	704	0.8+	0.9+
1998 11 16	704	0.5-	0.9+	2000 02 04	704	0.8+	0.4-	2000 03 08	704	0.0	0.9+
1998 11 16	704	1.2+	0.8+	2000 02 12	704	(3.8+ 0.9+)		2000 03 09	704	0.3-	0.7+
1998 12 14	704	0.4+	1.2+	2000 02 12	704	2.0+	1.8+	2000 03 09	704	0.2+	0.1+
1998 12 14	704	0.9-	0.8-	2000 02 12	704	(2.5+ 2.3+)		2000 03 09	704	0.1+	0.4+
1998 12 14	704	0.5-	0.8-	2000 02 12	704	(1.4+ 4.0+)		2000 03 09	704	0.3-	0.0
1998 12 14	704	1.7-	0.5-	2000 02 12	704	(1.1+ 2.8+)		2000 03 09	704	0.4-	0.8-
1998 12 14	704	1.5-	0.1+	2000 02 27	703	1.1-	0.0	2000 03 11	704	0.0	0.2-
1998 12 17	704	1.2+	1.3-	2000 02 27	703	0.6-	0.5-	2000 03 11	704	0.1+	0.3-
1998 12 17	704	1.9+	1.1-	2000 02 27	703	0.7-	0.2-	2000 03 11	704	0.8+	0.1+
1998 12 17	704	0.4+	0.1+	2000 02 27	703	0.7-	0.6+	2000 03 11	704	0.0	0.0
1998 12 17	704	(1.0+ 2.7-)		2000 02 29	704	0.5-	0.3+	2000 03 11	704	0.2+	0.5-
1999 12 09	691	0.2-	0.1-	2000 02 29	704	0.4+	0.0				

1997 SY₄ = 2000 EJ₅₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	230.47259		(2000.0)	P	Q
<i>n</i>	0.21950972	ω	319.11779	+0.62741657	+0.77827529
<i>a</i>	2.7216580	Ω	349.65632	-0.67286470	+0.52556872
<i>e</i>	0.0893719	<i>i</i>	8.07427	-0.39192032	+0.34360601
<i>P</i>	4.49	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 26	426	0.0	0.6+	2000 02 08	704	0.3+	0.8+	2000 04 02	699	1.4-	0.6-
1997 09 26	426	0.1+	0.0	2000 02 08	704	0.5+	0.3+	2000 04 02	691	0.4-	0.4-
1997 09 26	426	0.2+	0.0	2000 02 27	703	0.4+	0.8+	2000 04 02	699	1.5-	0.6-
1997 09 28	426	0.1-	0.6+	2000 02 27	703	0.4-	0.6+	2000 04 02	691	0.4-	0.5-
1997 09 28	426	0.3-	0.3+	2000 02 27	703	0.4+	1.1+	2000 04 02	699	1.5-	0.5-
1997 09 28	426	0.2+	0.2-	2000 02 27	703	0.2-	0.2+	2000 04 02	691	0.4-	0.6-
1997 09 30	691	0.3-	0.3+	2000 03 03	704	0.2-	0.1+	2000 04 04	704	0.8+	0.6-
1997 09 30	691	0.1-	0.2+	2000 03 03	704	0.2-	0.6-	2000 04 04	704	0.0	0.3+
1997 09 30	691	0.0	0.5+	2000 03 03	704	0.6-	0.0	2000 04 04	704	0.4-	0.7+
1997 10 07	426	1.2-	0.1+	2000 03 08	704	0.5-	0.4+	2000 04 04	704	0.5+	0.7+
1997 10 07	426	0.2-	0.3+	2000 03 08	704	0.3-	1.5+	2000 04 04	704	1.0+	0.4+
1997 10 07	426	0.2-	0.2+	2000 03 08	704	1.1-	1.9+	2000 04 05	704	0.6+	0.2+
1997 10 07	426	0.5-	0.6+	2000 03 08	704	0.8+	0.8+	2000 04 05	704	1.0+	0.3+
1997 10 07	426	0.3-	0.7+	2000 03 08	704	1.2+	0.0	2000 04 05	704	0.6+	0.3+
1997 10 07	426	0.5+	0.3+	2000 03 11	704	0.6+	0.1+	2000 04 05	704	0.4+	0.2+
1997 10 08	426	0.1+	0.1+	2000 03 11	704	0.2-	0.0	2000 04 05	704	1.4+	0.7+
1997 10 08	426	0.7-	0.0	2000 03 11	704	0.4+	0.0	2000 04 06	704	0.7+	0.4+
1997 10 08	426	0.0	0.4+	2000 03 11	704	0.1-	0.1-	2000 04 06	704	1.1+	0.5+

1997 10 09	691	0.4-	0.2+	2000 03 11	704	0.2+	0.4-	2000 04 06	704	0.4+	0.7+
1997 10 09	691	0.2-	0.4+	2000 03 14	691	0.2-	0.4-	2000 04 06	704	0.1+	0.7+
1997 10 09	691	0.3-	0.6+	2000 03 14	691	0.1-	0.5-	2000 04 07	691	0.1+	0.6-
1998 12 17	704	0.7+	0.2+	2000 03 14	691	0.2-	0.4-	2000 04 07	691	0.1-	0.6-
1998 12 17	704	0.2-	0.9-	2000 03 15	691	0.3-	0.6-	2000 04 07	691	0.1+	0.5-
1998 12 17	704	0.6-	0.5+	2000 03 15	691	0.3-	0.5-	2000 04 08	704	0.5+	0.2-
1998 12 17	704	(3.7- 0.2+)		2000 03 15	691	0.3-	0.4-	2000 04 08	704	1.1+	0.4-
2000 02 08	704	0.5+	1.7+	2000 04 02	699	0.9-	0.4-	2000 04 08	704	0.7+	0.5+

1997 ST₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	258.89160		(2000.0)	P	Q
<i>n</i>	0.26715038	ω	177.76167	+0.92989598	+0.36749667
<i>a</i>	2.3876217	Ω	160.65473	-0.33819254	+0.87078041
<i>e</i>	0.2048364	<i>i</i>	2.67866	-0.14463498	+0.32663078
<i>P</i>	3.69	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1982 07 20	413	2.1-	1.3-	1997 09 27	552	0.4+	0.1+	1997 10 25	552	0.1-	1.2-
1982 07 20	413	1.9+	1.2+	1997 09 27	552	0.3+	0.1+	1997 10 25	552	0.2-	0.3-
1990 10 23	675	0.8+	0.3+	1997 09 27	552	0.3+	0.3+	1997 11 02	552	0.1-	0.7-
1990 10 23	675	0.2+	0.3+	1997 10 01	552	0.3+	0.2-	1997 11 02	552	0.1+	0.3-
1992 04 09	691	0.3-	0.0	1997 10 01	552	0.3+	0.9+	1997 11 18	552	1.1-	0.3+
1992 04 09	691	0.4-	0.2+	1997 10 01	552	0.6-	0.3-	1997 11 18	552	0.9+	0.5+
1992 04 09	691	0.1+	0.5-	1997 10 03	552	0.0	0.1+	1997 12 06	552	0.4-	0.4+
1993 07 20	010	0.2+	1.0+	1997 10 03	552	0.2+	0.3-	1997 12 06	552	0.5-	0.5-
1993 07 20	010	0.2+	0.8-	1997 10 05	552	0.1-	0.4+				
1993 07 21	010	0.1+	0.0	1997 10 05	552	0.2-	0.1+				

1997 SR₂₅ = 2000 GT₁₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	336.57541		(2000.0)	P	Q
<i>n</i>	0.23769371	ω	45.34790	-0.78708570	+0.61576560
<i>a</i>	2.5810173	Ω	172.39839	-0.61458077	-0.77777043
<i>e</i>	0.0989027	<i>i</i>	15.99575	-0.05278803	-0.12611852
<i>P</i>	4.15	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 09 06	910	1.1+	0.2+	1997 10 05	691	0.9-	0.2+	2000 04 08	704	0.1-	0.9+
1997 09 06	910	1.0+	0.1-	1997 10 05	691	0.7-	0.1-	2000 04 08	704	0.4+	0.0
1997 09 06	910	1.2+	0.1+	2000 02 27	691	0.2+	0.0	2000 04 08	704	0.3-	0.1+
1997 09 27	691	0.4-	0.1+	2000 02 27	691	0.1+	0.1+	2000 04 13	704	1.1-	0.6-
1997 09 27	691	0.2-	0.3-	2000 02 27	691	0.2+	0.1+	2000 04 13	704	0.7+	0.6-
1997 09 27	691	0.6-	0.1-	2000 04 08	704	0.2+	0.7-	2000 04 13	704	1.3+	0.4+
1997 10 05	691	0.8-	0.3+	2000 04 08	704	1.1-	0.4-	2000 04 13	704	0.4-	0.8+

1997 TY₅ = 2000 ED₁₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	250.84889		(2000.0)	P	Q
<i>n</i>	0.19761525	ω	203.80161	+0.31954345	+0.94587838
<i>a</i>	2.9191455	Ω	84.87302	-0.85999894	+0.31458333
<i>e</i>	0.0668674	<i>i</i>	3.25901	-0.39786154	+0.07969584
<i>P</i>	4.99	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 13	327	0.6-	0.7-	2000 02 11	704	1.5+	0.2+	2000 03 26	699	0.4-	0.3+
1997 09 13	327	1.0-	0.2-	2000 02 11	704	0.4+	0.8-	2000 03 26	699	1.4-	0.0
1997 09 13	327	0.2-	0.3-	2000 02 11	704	0.4+	0.8+	2000 03 26	699	1.0-	1.1+
1997 10 02	910	0.5+	0.4+	2000 02 11	704	1.2-	0.6-	2000 03 26	699	1.2-	0.5+
1997 10 02	910	0.4+	0.5+	2000 02 11	704	0.3+	0.2+	2000 04 02	699	0.5+	0.0
1997 10 02	910	0.5+	0.4+	2000 03 02	703	0.2-	0.6-	2000 04 02	699	0.5-	0.3+
1997 10 03	910	0.6+	0.4+	2000 03 02	703	0.3+	0.8-	2000 04 02	699	0.0	0.5-
1997 10 04	910	0.8+	0.4+	2000 03 02	703	0.5+	0.1-	2000 04 02	699	0.9-	0.2-
1997 10 04	910	0.6+	0.5+	2000 03 02	703	0.9-	1.7+	2000 04 08	704	0.1+	0.4-
1997 10 26	809	1.6-	1.7-	2000 03 11	699	0.1+	0.1-	2000 04 08	704	0.4+	0.5-

1997 10 26	809	(0.4− 2.3−)	2000 03 11	699	0.6+ 0.2+	2000 04 08	704	0.7+ 0.4+
1997 10 28	809	0.4+ 0.3−	2000 03 11	699	0.3+ 0.2+	2000 04 08	704	0.2− 0.5−
1997 10 28	809	1.1+ 1.0−	2000 03 11	699	0.2+ 0.2−	2000 04 08	704	0.3+ 0.2−
1997 10 30	704	1.2+ 0.5+	2000 03 12	704	0.0 0.1+	2000 04 10	704	0.5+ 0.3−
1997 10 30	704	(2.5− 1.2−)	2000 03 12	704	0.4− 1.0−	2000 04 10	704	0.2+ 0.6+
1997 10 30	704	1.5− 0.7+	2000 03 12	704	0.1− 0.3−	2000 04 10	704	0.8+ 0.9+
1997 10 30	704	1.5− 0.7+	2000 03 12	704	0.7− 1.1−	2000 04 10	704	1.4+ 1.2+

1997 TP₁₁ = 2000 ER₁₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19676359	ω	171.91035	−0.51857752	−0.85494419		
<i>a</i>	2.9275628	Ω	309.32563	+0.78359295	−0.46951322		
<i>e</i>	0.0296194	<i>i</i>	0.90045	+0.34213950	−0.22051705		
<i>P</i>	5.01	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 28	691	0.1+ 0.5+	1997 10 09	691	0.0 0.1+	2000 03 25	691	0.7− 0.6−
1997 09 28	691	0.6+ 0.5+	2000 03 03	704	0.2+ 0.4+	2000 03 25	691	0.5− 0.7−
1997 09 28	691	0.3+ 0.3+	2000 03 03	704	0.2+ 0.2+	2000 03 25	691	0.5− 1.0−
1997 10 07	691	(1.1− 2.0+)	2000 03 03	704	0.7+ 0.6+	2000 04 05	704	0.2− 0.7−
1997 10 07	691	0.1− 0.2+	2000 03 03	704	0.4+ 0.1+	2000 04 05	704	0.5− 0.6+
1997 10 07	691	0.2− 0.7+	2000 03 03	704	0.1+ 0.5+	2000 04 05	704	0.1+ 0.0
1997 10 08	691	0.2− 0.5−	2000 03 11	704	0.3− 0.1−	2000 04 05	704	0.0 0.6+
1997 10 08	691	0.1+ 1.1−	2000 03 11	704	0.3+ 0.2−	2000 04 06	704	0.5+ 0.3+
1997 10 08	691	0.4− 0.1−	2000 03 11	704	0.2− 0.3−	2000 04 06	704	1.4+ 0.3+
1997 10 09	691	0.3− 0.3+	2000 03 11	704	0.5− 0.2+	2000 04 06	704	0.2+ 0.6+
1997 10 09	691	0.5− 0.2+	2000 03 11	704	0.2− 0.3+			

1997 TM₁₃ = 2000 GF₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26242219	ω	299.60924	+0.17399427	+0.98473210		
<i>a</i>	2.4162156	Ω	340.40873	−0.89787316	+0.15640854		
<i>e</i>	0.1847929	<i>i</i>	0.91529	−0.40441288	+0.07641377		
<i>P</i>	3.76	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 10 03	691	0.1+ 0.0	2000 04 05	704	0.2− 0.1−	2000 04 07	704	0.1− 0.4+
1997 10 03	691	0.2− 0.1+	2000 04 06	704	1.1− 0.6+	2000 04 07	704	0.8+ 0.0
1997 10 03	691	0.2+ 0.2+	2000 04 06	704	0.5+ 0.2−	2000 04 08	704	0.6− 0.4−
1997 10 09	691	0.2− 0.5−	2000 04 06	704	0.2+ 0.2+	2000 04 08	704	0.4− 0.3−
1997 10 09	691	0.2+ 0.1+	2000 04 06	704	0.6+ 0.7+	2000 04 08	704	0.1+ 1.5+
1997 10 09	691	0.0 0.1−	2000 04 06	704	0.0 0.9+	2000 04 08	704	0.0 0.4−
1997 11 03	691	0.3− 0.1+	2000 04 07	704	0.0 0.2−	2000 04 08	704	0.9+ 0.5−
1997 11 03	691	0.2− 0.4+	2000 04 07	704	1.1+ 0.3−	2000 04 08	704	0.4− 0.2−
1997 11 03	691	0.4+ 0.1−	2000 04 07	704	0.9+ 0.7+	2000 04 08	704	0.1− 1.0−
2000 04 05	704	0.1− 0.3−	2000 04 07	704	0.5− 0.2−	2000 04 08	704	0.9− 0.3−
2000 04 05	704	0.2− 0.1−	2000 04 07	704	0.4− 0.1−	2000 04 08	704	0.5− 0.2+
2000 04 05	704	0.0 0.1−	2000 04 07	704	0.3− 0.4+			
2000 04 05	704	0.0 0.1−	2000 04 07	704	0.7+ 0.9−			

1997 TY₁₆ = 2000 EP₁₄₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17627480	ω	321.98247	−0.90926294	−0.40990445		
<i>a</i>	3.1502321	Ω	194.35022	+0.41593933	−0.90125076		
<i>e</i>	0.0933901	<i>i</i>	16.94694	−0.01534180	−0.14044718		
<i>P</i>	5.59	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 09	046	0.2− 0.9+	2000 03 04	703	0.2+ 0.1−	2000 04 06	699	0.2− 0.2+
1997 10 09	046	0.1+ 0.4+	2000 03 04	703	0.5− 0.0	2000 04 06	704	0.5+ 0.2+
1997 10 09	046	0.2− 0.3+	2000 03 04	703	0.2+ 0.2−	2000 04 06	704	0.3+ 0.1+

1997 10 09	046	0.3− 0.4+	2000 03 10	704	0.3− 0.5+	2000 04 06	699	0.2− 0.1+
1997 10 10	046	0.0 0.0	2000 03 10	704	0.5− 0.2+	2000 04 06	704	0.3+ 0.3+
1997 10 10	046	0.2+ 0.6+	2000 03 10	704	0.5− 0.1+	2000 04 06	699	0.0 0.1+
1997 10 10	046	0.2+ 0.5+	2000 03 10	704	0.8− 0.2−	2000 04 06	704	0.5+ 0.3+
1997 10 10	046	0.3− 0.8+	2000 03 25	691	0.9− 0.3−	2000 04 07	704	0.6+ 0.3+
1997 10 10	046	0.0 0.4+	2000 03 25	691	0.9− 0.2−	2000 04 07	704	0.5+ 0.2+
1997 10 19	046	0.1− 0.2+	2000 03 25	691	0.8− 0.1−	2000 04 07	704	0.5+ 0.2+
1997 10 19	046	0.1+ 0.2+	2000 04 02	699	0.2− 0.3+	2000 04 07	704	0.1+ 0.3+
1997 10 19	046	0.1+ 0.3+	2000 04 02	699	0.4+ 0.0	2000 04 07	704	0.0 0.2+
1997 10 22	046	0.1− 0.0	2000 04 02	699	0.0 0.5+	2000 04 10	704	0.0 0.4+
1997 10 22	046	0.2− 0.1−	2000 04 02	699	0.1+ 0.1+	2000 04 10	704	0.2− 0.6+
1997 10 22	046	0.2− 0.1−	2000 04 05	691	0.1− 0.4+	2000 04 10	704	0.3+ 0.1+
1997 10 30	704	0.8− 0.3−	2000 04 05	691	0.0 0.5+	2000 04 10	704	0.2+ 0.4+
1997 10 30	704	0.1+ 0.3+	2000 04 05	691	0.1+ 0.5+	2000 04 10	704	0.1− 0.5+
1997 10 30	704	0.7+ 1.1−	2000 04 05	704	0.5+ 0.0	2000 04 11	691	0.2+ 0.7−
1997 10 30	704	(0.8− 2.3−)	2000 04 05	704	0.6+ 0.2−	2000 04 11	691	0.3+ 0.7−
1997 10 30	704	(5.5− 0.0)	2000 04 05	704	0.4+ 0.1−	2000 04 11	691	0.1+ 0.7−
1997 11 06	046	0.6+ 0.6−	2000 04 05	704	0.3+ 0.0	2000 04 12	691	0.4− 0.6−
1997 11 06	046	0.1− 0.6−	2000 04 05	704	0.6+ 0.1−	2000 04 12	691	0.4− 0.6−
1997 11 06	046	0.3+ 0.4−	2000 04 06	699	0.2+ 0.3+	2000 04 12	691	0.3− 0.7−
2000 03 04	703	1.1− 0.5−	2000 04 06	704	0.3+ 0.1+			

1997 UC = 2000 GJ₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25650863	ω	126.70791	+0.67806290	+0.73451503		
<i>a</i>	2.4532100	Ω	186.19619	−0.72833504	+0.66656271		
<i>e</i>	0.1827603	<i>i</i>	14.37840	−0.09878650	+0.12720779		
<i>P</i>	3.84	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 04 07	691	0.6+ 0.7−	1997 10 20	385	0.3+ 0.0	2000 04 07	704	0.8+ 0.2−
1992 04 07	691	0.3− 0.2+	1997 10 21	385	0.2+ 0.3+	2000 04 07	704	1.4+ 0.9−
1992 04 07	691	0.1− 1.2+	1997 10 21	385	0.6− 0.5+	2000 04 07	704	0.8+ 0.5+
1996 03 26	566	0.1+ 0.6+	1997 10 28	704	(0.9+ 2.3−)	2000 04 07	704	0.2+ 0.3+
1996 03 26	566	0.4+ 0.9+	1997 10 28	704	1.4+ 1.0−	2000 04 08	704	0.5− 1.1+
1996 03 26	566	0.2− 0.9+	1997 10 28	704	(2.1+ 1.4−)	2000 04 08	704	0.6+ 0.7+
1997 09 30	566	0.3+ 0.3+	1997 10 28	704	(0.2− 4.1−)	2000 04 08	704	0.6− 0.3−
1997 09 30	566	0.3− 0.5+	1997 10 29	385	0.9− 0.2−	2000 04 09	699	0.0 0.4−
1997 09 30	566	0.2− 0.1+	1997 10 29	385	0.5− 0.2−	2000 04 09	699	0.6− 0.3−
1997 10 05	905	0.1+ 0.3+	1997 12 05	385	0.9+ 0.1−	2000 04 09	699	1.4− 0.0
1997 10 05	905	0.7− 1.3+	1997 12 05	385	0.4− 0.6−	2000 04 09	699	0.5− 0.3−
1997 10 20	385	0.1+ 0.8+	1997 12 05	385	0.0 1.3+			

1997 US = 2000 GC₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22911688	ω	42.36222	−0.27039769	+0.95945136		
<i>a</i>	2.6450344	Ω	212.18961	−0.91851515	−0.28186817		
<i>e</i>	0.0626809	<i>i</i>	8.59475	−0.28847013	−0.00184854		
<i>P</i>	4.30	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 21	113	1.2−	1.0−	1997 10 31	611	1.2+	0.9+	2000 04 05	704	0.3+	0.3−
1997 10 21	611	0.7+	0.7−	1997 11 03	611	0.4+	0.1−	2000 04 05	704	0.5−	0.1+
1997 10 21	113	0.8−	0.2−	1997 11 03	611	0.1+	0.1−	2000 04 05	704	1.1−	0.4−
1997 10 21	611	0.1+	0.1+	1997 11 07	611	0.5−	1.1−	2000 04 06	704	0.1+	0.3+
1997 10 21	113	0.4−	0.1−	1997 11 07	611	1.4+	0.2+	2000 04 06	704	0.0	0.1+
1997 10 21	113	0.6−	0.3−	1998 12 15	704	0.3−	0.3+	2000 04 06	704	0.0	0.2+
1997 10 22	611	0.6−	0.2−	1998 12 15	704	0.1−	0.5+	2000 04 06	704	0.3−	0.1+
1997 10 22	611	1.5−	1.0+	1998 12 15	704	0.4+	0.6−	2000 04 06	704	1.2−	0.4−
1997 10 22	611	1.1−	0.1−	1998 12 15	704	0.8+	1.0+	2000 04 07	704	0.1+	0.4+
1997 10 22	611	0.6+	1.8+	1998 12 15	704	(4.5−	0.7−)	2000 04 07	704	0.8+	0.7+
1997 10 27	611	1.0+	2.0+	1999 01 20	704	0.6+	1.5+	2000 04 07	704	0.3+	0.3−
1997 10 27	611	0.1+	0.4+	1999 01 20	704	1.3−	0.0	2000 04 07	704	0.3+	0.8−
1997 10 27	611	0.2+	0.4−	1999 01 20	704	0.2+	1.2−	2000 04 07	704	0.8+	0.6+

2000 APR. 18

M.P.C. 39983

1997 10 27	611	2.0−	0.2−	1999 01 20	704	0.0	0.6−	2000 04 08	704	0.8+	0.2+
1997 10 27	611	1.1+	0.0	2000 03 27	691	1.1−	0.3−	2000 04 08	704	0.3+	0.2+
1997 10 28	611	0.8+	0.7+	2000 03 27	691	1.0−	0.3−	2000 04 08	704	0.8+	0.9+
1997 10 28	611	0.0	0.5−	2000 03 27	691	1.1−	0.4−	2000 04 08	704	1.1+	0.4+
1997 10 28	611	0.2−	0.8+	2000 04 05	704	0.0	0.6+	2000 04 08	704	0.9+	1.5+
1997 10 31	611	0.1+	0.2−	2000 04 05	704	0.0	0.3+				

1997 UX = 2000 GE₁₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	250.34087		(2000.0)	P	Q
<i>n</i>	0.24485652	ω	294.90693	+0.82913948	+0.55100196
<i>a</i>	2.5304335	Ω	31.90308	−0.42637493	+0.73257490
<i>e</i>	0.2555456	<i>i</i>	10.29733	−0.36156900	+0.39966343
<i>P</i>	4.03	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1996 04 12	691	0.4+	0.2+	1997 10 31	910	0.9+	0.1−	1997 12 30	557	1.4+	1.5−
1996 04 12	691	0.1−	0.1−	1997 10 31	557	0.3−	0.0	2000 04 03	688	0.4+	0.2+
1996 04 12	691	0.2−	0.0	1997 10 31	557	0.1−	0.1+	2000 04 03	688	0.3−	0.5−
1997 09 29	327	0.3−	0.4+	1997 11 21	691	0.5−	0.4+	2000 04 05	704	0.3−	0.4−
1997 09 29	327	0.1+	0.3+	1997 11 21	691	0.2−	0.2+	2000 04 05	704	0.1−	0.3+
1997 09 29	327	0.9−	0.7−	1997 11 21	691	0.2−	0.3+	2000 04 05	704	0.3+	0.4−
1997 10 22	557	0.0	0.1+	1997 11 28	691	0.4+	0.4+	2000 04 05	704	0.5−	0.0
1997 10 22	557	0.9−	0.1+	1997 11 28	691	0.5+	0.3+	2000 04 05	704	0.2+	0.4+
1997 10 22	557	0.3+	0.1+	1997 11 28	691	0.3+	0.6+	2000 04 10	704	0.5−	0.1+
1997 10 22	557	0.1+	0.4+	1997 11 29	691	0.7−	0.5+	2000 04 10	704	0.3+	1.1+
1997 10 27	557	0.3−	0.2+	1997 11 29	691	1.1−	0.6+	2000 04 10	704	0.2+	0.2+
1997 10 28	557	0.5−	0.1+	1997 11 29	691	0.8−	0.0	2000 04 10	704	0.5+	0.4−
1997 10 31	910	0.8+	0.3−	1997 12 30	557	0.4−	0.7−	2000 04 10	704	0.8+	0.8+
1997 10 31	910	0.9+	0.1−	1997 12 30	557	1.0+	0.5−				

1997 UL₁

Id. P. G. Comba (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	258.97659		(2000.0)	P	Q
<i>n</i>	0.21577414	ω	276.56679	+0.60556116	+0.79126617
<i>a</i>	2.7529804	Ω	31.20405	−0.65002972	+0.55330435
<i>e</i>	0.1017854	<i>i</i>	9.42215	−0.45908283	+0.26029242
<i>P</i>	4.57	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1997 10 11	691	0.1+	0.1+	1997 11 02	691	0.2−	0.1−	2000 04 05	684	0.8−	0.5+
1997 10 11	691	0.2−	0.3−	1997 11 02	691	0.1+	0.1−	2000 04 05	704	0.1+	0.5−
1997 10 11	691	0.2−	0.9−	1997 11 02	691	0.1+	0.1−	2000 04 05	704	0.2+	0.3−
1997 10 23	684	0.7+	0.7+	1997 11 02	587	0.3+	0.5−	2000 04 05	704	0.0	0.4−
1997 10 23	684	0.1−	0.0	1997 11 02	587	0.5−	0.9+	2000 04 05	704	0.4+	0.3+
1997 10 24	684	0.1+	0.2+	1997 11 03	587	0.3+	0.6+	2000 04 05	704	0.3−	0.9+
1997 10 24	684	0.1+	0.1−	1997 11 03	587	0.1−	0.0	2000 04 06	704	0.3+	0.1+
1997 10 24	684	0.5+	0.0	1997 11 18	684	0.3−	0.1−	2000 04 06	704	0.3−	0.9−
1997 10 29	684	0.4−	0.2−	1997 11 18	684	0.3−	0.0	2000 04 06	704	0.4+	0.0
1997 10 29	684	0.3−	0.0	1997 12 04	691	0.1−	0.3+	2000 04 06	704	0.2−	0.4−
1997 10 29	684	0.2−	0.1−	1997 12 04	691	0.3+	0.4−	2000 04 06	704	0.0	0.2+
1997 10 30	684	0.0	0.1+	1997 12 04	691	0.1+	0.5−	2000 04 07	704	1.0+	0.1+
1997 10 30	684	0.1+	0.1+	2000 04 04	684	0.4−	0.1−	2000 04 07	704	0.2−	0.2+
1997 10 30	684	0.1+	0.2+	2000 04 04	684	0.7−	0.3+	2000 04 07	704	0.2+	1.0−
1997 10 30	684	0.0	0.2+	2000 04 05	684	0.4−	0.4+	2000 04 07	704	0.7+	0.6+

1997 UK₁₀ = 2000 ER₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	252.15591		(2000.0)	P	Q
<i>n</i>	0.21908986	ω	265.91188	+0.68456754	+0.71287562
<i>a</i>	2.7251340	Ω	48.52765	−0.56181805	+0.64904583
<i>e</i>	0.1809355	<i>i</i>	11.72280	−0.46446503	+0.26560846
<i>P</i>	4.50	<i>H</i>	13.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1997 10 29	704	0.7−	1.5−	1997 10 30	566	0.3−	0.8+	2000 03 11	699	0.2−	0.9+
1997 10 29	704	0.1+	0.3+	1997 10 30	566	0.1−	0.8+	2000 03 11	699	0.6+	0.1+
1997 10 29	704	0.5−	0.5+	1997 11 21	691	0.4−	0.0	2000 03 11	699	0.1+	0.3+
1997 10 29	704	0.2−	0.6+	1997 11 21	691	0.3−	0.0	2000 03 11	699	1.9−	1.2+
1997 10 29	704	0.4+	0.7+	1997 11 21	691	0.3−	0.2+	2000 03 29	704	0.5−	0.3+
1997 10 29	566	0.4−	0.4+	1997 11 28	691	0.1−	0.2−	2000 03 29	704	0.4+	0.2+
1997 10 29	566	0.7−	0.5+	1997 11 28	691	0.5−	0.1+	2000 03 29	704	0.3+	0.2−
1997 10 29	566	0.3−	0.4+	1997 11 28	691	0.0	0.4+	2000 03 29	704	0.1−	1.1−
1997 10 30	704	1.7+	1.7−	1997 12 04	691	0.3+	0.1−	2000 03 29	704	0.5+	0.3−
1997 10 30	704	1.7+	1.9−	1997 12 04	691	0.2+	0.4−	2000 04 04	704	0.1+	0.2+
1997 10 30	704	(2.3+	1.6−)	1997 12 04	691	0.3+	0.2−	2000 04 04	704	0.3+	0.5+
1997 10 30	704	(2.1+	1.2−)	2000 03 06	608	0.3+	1.2−	2000 04 04	704	0.1+	0.6+
1997 10 30	704	(4.1−	0.9−)	2000 03 06	608	0.3−	1.1−	2000 04 04	704	0.1+	0.4+
1997 10 30	566	0.1−	0.7+	2000 03 06	608	0.0	1.0−	2000 04 04	704	0.2+	0.3+

1997 UG₁₅ = 1982 YD₄ = 1999 GL₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Nakano

<i>M</i>	211.43184		(2000.0)	P	Q
<i>n</i>	0.25917628	ω	282.15014	+0.54386499	−0.83849987
<i>a</i>	2.4363474	Ω	134.84954	+0.78718041	+0.49588621
<i>e</i>	0.1622955	<i>i</i>	2.71631	+0.29078837	+0.22586464
<i>P</i>	3.80	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1982 12 23	095	0.1+	1.5−	1997 11 03	358	0.7−	0.4−	1998 02 26	327	0.4+	0.8+
1984 05 30	413	1.5−	0.1−	1997 11 24	358	(3.1−	1.4−)	1998 02 26	327	0.3+	0.2+
1984 05 30	413	1.4+	0.7+	1997 11 24	358	0.4+	0.5+	1998 02 26	327	0.2−	0.2+
1987 01 01	675	1.6−	1.3+	1997 11 29	704	0.3+	0.5−	1999 04 07	704	0.2+	0.4−
1987 01 01	675	1.5+	0.7−	1997 11 29	704	1.3+	0.8−	1999 04 07	704	1.0+	0.2+
1989 09 24	413	0.6+	0.9−	1997 11 29	704	0.4+	0.6+	1999 04 07	704	0.1+	0.4−
1989 09 24	413	0.3+	0.7+	1997 11 29	704	0.4+	0.5+	1999 04 07	704	0.3−	0.1−
1993 11 07	413	1.4+	0.0	1997 11 29	704	0.2−	0.3−	1999 04 07	704	0.7+	0.9−
1993 11 07	413	0.3+	0.2+	1998 02 22	327	0.1−	0.3−	1999 04 12	704	1.0−	1.3+
1997 10 29	358	0.0	1.0−	1998 02 22	327	0.2+	0.8+	1999 04 12	704	0.2+	0.0
1997 10 29	358	0.7−	0.1+	1998 02 22	327	0.1−	0.1+	1999 04 12	704	0.7+	1.2−
1997 11 01	358	0.5−	0.5−	1998 02 23	327	0.1+	0.4+	1999 04 12	704	1.9−	0.7+
1997 11 01	358	0.7−	0.9+	1998 02 23	327	0.1−	0.4+				
1997 11 03	358	0.1+	0.5+	1998 02 23	327	0.6−	0.2−				

1997 UT₂₁ = 2000 EY₁₅₃

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	199.02031		(2000.0)	P	Q
<i>n</i>	0.19174179	ω	313.29898	+0.92426324	+0.37087054
<i>a</i>	2.9784583	Ω	25.34070	−0.25930522	+0.78390636
<i>e</i>	0.1394139	<i>i</i>	12.20896	−0.28017541	+0.49794163
<i>P</i>	5.14	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 10 22	358	0.2−	0.1−	2000 02 11	704	0.5−	0.2−	2000 04 03	704	0.3+	0.0
1997 10 22	358	(2.9−	1.3+)	2000 02 11	704	0.4−	1.1+	2000 04 03	704	0.3−	0.3+
1997 10 23	358	0.7+	0.2−	2000 02 11	704	(2.0+	2.8+)	2000 04 07	699	0.7−	0.3+
1997 10 23	358	(0.4+	3.4−)	2000 03 06	608	0.6−	0.5−	2000 04 07	699	0.1−	0.7+
1997 10 30	704	0.4−	0.1−	2000 03 06	608	0.5−	0.7−	2000 04 07	699	0.7−	1.5+
1997 10 30	704	0.3−	1.1−	2000 03 06	608	0.8−	0.4−	2000 04 07	699	0.7−	0.9+
1997 10 30	704	0.1+	0.1+	2000 03 11	699	0.7+	0.2−	2000 04 08	704	0.6+	0.1+
1997 10 30	704	0.6−	0.2−	2000 03 11	699	1.1+	0.1+	2000 04 08	704	0.2+	0.1+
1997 10 30	704	0.2−	0.5+	2000 03 11	699	0.9+	0.3−	2000 04 08	704	0.6+	0.8+
1997 11 02	358	0.1−	0.8+	2000 03 11	699	0.5+	0.0	2000 04 08	704	0.2+	0.2+
1997 11 02	358	0.6+	0.8+	2000 03 28	704	0.3+	0.1+	2000 04 08	704	0.2−	0.3+
1998 12 24	699	0.6−	0.2−	2000 03 28	704	0.0	0.5+	2000 04 11	608	0.6+	0.8−
1998 12 24	699	0.4−	0.1+	2000 03 28	704	0.4−	0.3−	2000 04 11	608	0.5+	1.1−
1998 12 24	699	0.9+	0.2−	2000 04 03	704	0.5−	0.3−	2000 04 11	608	0.4+	1.2−

1997 UZ₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	304.88829		(2000.0)	P		Q	
<i>n</i>	0.08455874	ω	314.43554	-0.79531432	-0.60092881		
<i>a</i>	5.1407961	Ω	189.63603	+0.59566130	-0.79911995		
<i>e</i>	0.0283940	<i>i</i>	28.45198	-0.11252887	+0.01708414		
<i>P</i>	11.66	<i>H</i>	10.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 29	809	0.2-	1.7-	1997 10 31	688	0.2-	0.3+	1999 12 09	699	0.6+	0.4+
1997 09 29	809	0.5+	0.0	1997 10 31	688	0.0	0.1+	1999 12 18	704	(1.9+	2.7-)
1997 09 30	809	0.3-	0.6-	1998 10 29	699	1.2+	1.9+	1999 12 18	704	0.1-	1.1-
1997 09 30	809	0.1-	0.5-	1998 10 29	699	(0.5-	2.1+)	1999 12 18	704	0.6+	1.0-
1997 10 01	809	0.0	0.2+	1998 10 29	699	(1.6+	2.2+)	1999 12 18	704	0.9-	1.0-
1997 10 01	809	0.1+	0.2+	1998 11 13	704	0.1+	1.1-	2000 01 10	704	0.1-	0.1-
1997 10 05	809	0.2-	0.5-	1998 11 13	704	0.1+	0.1+	2000 01 10	704	0.1-	0.5+
1997 10 05	809	0.1-	0.4-	1998 11 13	704	0.1-	0.4+	2000 01 10	704	0.2-	0.3+
1997 10 25	809	0.6+	0.6-	1998 11 13	704	0.4-	0.9+	2000 01 10	704	0.5+	1.1+
1997 10 25	809	0.6+	0.2+	1999 11 08	704	0.3-	0.3+	2000 01 10	704	0.8-	1.0+
1997 10 27	809	0.9-	0.5-	1999 11 08	704	0.1-	0.2-	2000 01 30	049	1.4-	0.5-
1997 10 27	809	0.3-	0.3+	1999 11 08	704	0.2+	0.5-	2000 01 30	049	1.2-	0.2-
1997 10 30	688	0.1+	0.1-	1999 11 08	704	0.7-	0.1-	2000 01 30	049	1.0-	0.7-
1997 10 30	704	1.4+	1.6+	1999 11 08	704	0.4-	0.1+	2000 03 09	704	1.1+	0.4-
1997 10 30	688	0.1-	0.4+	1999 11 16	699	0.0	0.5+	2000 03 09	704	0.2+	0.6-
1997 10 30	704	0.2+	0.3-	1999 11 16	699	0.2+	1.5+	2000 03 09	704	0.0	0.1-
1997 10 30	704	0.7-	0.3+	1999 11 16	699	0.5-	0.1+	2000 03 09	704	0.5+	0.0
1997 10 30	704	0.5+	0.5-	1999 12 09	699	0.9+	0.2+	2000 03 09	704	0.9+	0.6-
1997 10 30	704	1.6-	0.5+	1999 12 09	699	1.8+	0.5-				

1997 VO = 2000 DH₁₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	326.10272		(2000.0)	P		Q	
<i>n</i>	0.17507004	ω	144.33096	-0.78284325	+0.62116168		
<i>a</i>	3.1646681	Ω	74.11067	-0.57926220	-0.70628314		
<i>e</i>	0.1269436	<i>i</i>	2.16044	-0.22718217	-0.33959136		
<i>P</i>	5.63	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 11 01	360	0.0	0.0	2000 03 04	620	0.5+	0.7-	2000 04 05	704	0.1+	0.2+
1997 11 01	360	0.7+	0.5-	2000 03 04	620	0.7-	1.0-	2000 04 05	704	0.5+	0.1-
1997 11 01	360	0.2+	0.1-	2000 03 04	620	1.7-	0.0	2000 04 05	704	0.7+	0.3-
1997 11 02	360	0.2+	0.2-	2000 03 04	620	1.7-	0.6-	2000 04 07	699	0.4-	1.2+
1997 11 02	360	0.2-	0.2-	2000 03 07	620	1.7+	1.3-	2000 04 07	699	0.5+	0.2-
1997 11 02	360	0.0	0.1-	2000 03 07	620	(4.0+	3.2-)	2000 04 07	699	0.5-	0.3+
1997 11 03	360	0.1-	0.2+	2000 03 11	704	0.1+	0.2+	2000 04 07	699	0.1+	0.5+
1997 11 03	360	0.1-	0.4+	2000 03 11	704	0.4+	0.7+	2000 04 08	704	0.4-	0.1-
1997 11 03	360	0.6-	0.5+	2000 03 11	704	0.0	0.7+	2000 04 08	704	0.2+	0.2-
2000 02 25	620	(1.2-	3.8+)	2000 03 11	704	0.3+	0.8+	2000 04 08	704	0.3-	0.1+
2000 02 25	620	0.2+	1.9+	2000 03 11	704	1.3+	1.5+	2000 04 08	704	0.6+	0.1+
2000 02 26	620	0.6-	0.7-	2000 03 26	699	0.6-	0.2-	2000 04 08	704	0.0	0.0
2000 02 26	620	1.0+	1.4-	2000 03 26	699	0.5-	0.2-	2000 04 10	704	0.0	0.0
2000 02 27	703	0.1+	0.8+	2000 03 26	699	0.2-	0.0	2000 04 10	704	0.3-	0.2-
2000 02 27	703	0.6-	0.2-	2000 03 26	699	0.6-	0.4-	2000 04 10	704	0.0	0.4-
2000 02 27	703	0.2+	0.1+	2000 04 05	704	0.1+	0.0	2000 04 10	704	0.3+	0.1+
2000 02 27	703	0.5+	0.1-	2000 04 05	704	0.1+	0.6-	2000 04 10	704	0.4-	0.3-

1997 VY₂ = 1993 VK₃ = 1999 CW₂₃ = 2000 GE₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.74928		(2000.0)	P		Q	
<i>n</i>	0.23257895	ω	245.49528	+0.99481611	+0.09383034		
<i>a</i>	2.6187203	Ω	109.10130	-0.07161671	+0.92014243		
<i>e</i>	0.1498611	<i>i</i>	2.37764	-0.07219383	+0.38017599		
<i>P</i>	4.24	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 11 11	399	0.4-	0.7+	1997 11 06	402	0.3-	0.6+	1999 02 24	699	0.1+	0.3-
1993 11 11	399	(2.5-	0.3-)	1997 11 06	402	0.2-	0.5+	1999 02 24	699	0.1+	0.7-
1993 11 21	691	0.4-	0.1+	1997 11 06	402	0.2-	0.5+	2000 04 05	704	0.0	0.2+
1993 11 21	691	0.3-	0.1+	1997 11 09	402	0.1-	0.0	2000 04 05	704	0.6+	0.7+
1993 12 16	691	1.0+	0.8+	1997 11 09	402	0.1-	0.2+	2000 04 05	704	0.1-	0.8+
1993 12 16	691	0.1-	0.2-	1997 11 09	402	0.1-	0.1+	2000 04 05	704	0.4+	0.3+
1993 12 16	691	0.0	0.5-	1999 02 10	704	1.0-	0.3+	2000 04 06	704	1.0-	1.7+
1996 06 21	566	0.5-	1.3-	1999 02 10	704	1.0+	1.0-	2000 04 06	704	0.5+	0.7+
1996 06 21	566	0.0	0.9-	1999 02 10	704	1.3-	0.8-	2000 04 06	704	0.2+	0.5+
1996 06 21	566	0.4-	0.8-	1999 02 10	704	0.4-	0.6+	2000 04 06	704	0.4+	0.8+
1997 11 03	372	0.0	1.0+	1999 02 10	704	0.0	0.1-	2000 04 06	704	0.8+	0.4+
1997 11 05	402	0.1+	0.2+	1999 02 13	704	(16.4-	9.7+)	2000 04 07	704	0.1+	0.6+
1997 11 05	402	0.0	0.2+	1999 02 13	704	(13.4-	10.3+)	2000 04 07	704	0.4+	1.1+
1997 11 05	402	0.2+	0.1+	1999 02 13	704	(14.3-	11.3+)	2000 04 07	704	0.3+	0.0
1997 11 05	402	0.2+	0.1+	1999 02 13	704	(12.7-	12.1+)	2000 04 07	704	0.2+	0.3+
1997 11 05	372	1.0-	0.2+	1999 02 24	699	1.2+	0.2+				

1997 WJ₅ = 2000 EV₄₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	308.02831		(2000.0)	P		Q	
<i>n</i>	0.17549445	ω	94.01086	-0.40749369	+0.91310221		
<i>a</i>	3.1595637	Ω	151.92880	-0.84913806	-0.37325890		
<i>e</i>	0.1738765	<i>i</i>	1.69289	-0.33602597	-0.16407973		
<i>P</i>	5.62	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 11 23	691	0.5+	0.0	2000 03 11	704	0.1+	0.5-	2000 04 04	704	0.1+	0.7+
1997 11 23	691	0.3+	0.4+	2000 03 11	704	0.7+	0.3-	2000 04 04	704	1.0+	0.8-
1997 11 23	691	0.4+	0.0	2000 03 11	704	0.2+	0.2+	2000 04 05	704	0.2+	0.1-
1997 11 25	691	0.0	0.1-	2000 03 11	704	0.3+	0.6-	2000 04 05	704	0.9-	0.3-
1997 11 25	691	0.0	0.3+	2000 03 14	703	0.4-	0.8-	2000 04 05	704	0.1-	0.1+
1997 11 25	691	0.0	0.4+	2000 03 14	703	0.3-	0.6-	2000 04 05	704	0.1-	0.0
1997 11 30	691	0.6-	0.4-	2000 03 14	703	0.3-	0.0	2000 04 05	704	0.2-	0.0
1997 11 30	691	0.2+	0.4-	2000 03 14	703	0.6-	0.9-	2000 04 06	704	0.1-	0.3+
1997 11 30	691	0.9-	0.1-	2000 03 14	703	0.4+	0.2+	2000 04 06	704	0.6+	0.1+
2000 03 08	704	1.1-	1.2+	2000 03 14	703	0.5+	0.6-	2000 04 06	704	0.2-	0.2+
2000 03 08	704	0.1-	0.8+	2000 03 14	703	1.0-	0.5+	2000 04 06	704	0.1-	0.0
2000 03 08	704	0.1+	0.2+	2000 03 14	703	1.0+	0.8-	2000 04 06	704	0.2-	0.8+
2000 03 08	704	0.6+	0.9+	2000 03 26	699	0.5-	0.1-	2000 04 07	699	0.2-	0.3-
2000 03 10	704	0.0	0.1-	2000 03 26	699	1.2-	0.3-	2000 04 07	699	1.1-	0.7+
2000 03 10	704	0.1+	0.0	2000 03 26	699	0.3-	0.6+	2000 04 07	699	0.4-	0.2+
2000 03 10	704	0.5+	0.1-	2000 03 26	699	0.8-	0.2+	2000 04 07	699	0.8-	0.7+
2000 03 10	704	0.0	0.1-	2000 04 04	704	1.1+	0.3+	2000 04 10	704	1.9+	1.4-
2000 03 10	704	0.2+	0.1+	2000 04 04	704	0.2+	0.6-	2000 04 10	704	0.2+	0.0
2000 03 11	704	0.1-	0.2+	2000 04 04	704	0.1+	0.4-	2000 04 10	704	1.1+	0.5+

1997 WP₄₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.90796		(2000.0)	P		Q	
<i>n</i>	0.23616380	ω	23.57467	+0.63010606	+0.77297650		
<i>a</i>	2.5921522	Ω	285.56729	-0.72409382	+0.55048823		
<i>e</i>	0.3066370	<i>i</i>	4.40475	-0.28045409	+0.31538871		
<i>P</i>	4.17	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 11 01	327	0.1+	0.1-	1997 11 29	704	0.5+	0.5-	2000 04 07	704	0.1+	0.1-
1997 11 01	327	0.4-	0.0	2000 03 27	699	0.1+	0.2+	2000 04 07	704	0.1+	0.5-
1997 11 01	327	0.1+	0.2-	2000 03 27	699	0.8-	0.1-	2000 04 07	704	0.0	0.3-
1997 11 19	327	0.1-	0.6+	2000 03 27	699	0.4-	0.7-	2000 04 07	704	0.1+	0.2-
1997 11 19	327	0.2-	0.4+	2000 03 27	699	0.4+	0.5-	2000 04 07	704	0.6+	0.2+
1997 11 19	327	0.2+	0.1+	2000 03 30	704	0.9+	0.2-	2000 04 08	704	0.5+	1.1+
1997 11 28	327	0.1-	0.1+	2000 03 30	704	0.0	1.2-	2000 04 08	704	(2.2-	1.3+)
1997 11 28	327	0.2+	0.1+	2000 03 30	704	0.3+	0.4+	2000 04 08	704	0.3-	0.5-

2000 APR. 18

1997 11 28	327	0.2+	0.5−	2000 03 30	704	0.1+	1.2+	2000 04 08	704	0.3−	0.5+
1997 11 29	704	1.1+	0.1+	2000 04 06	699	0.4+	0.5+	2000 04 08	704	0.8−	0.5+
1997 11 29	704	(2.7+	0.2+)	2000 04 06	699	0.0	0.7+	2000 04 10	608	0.2−	0.4−
1997 11 29	704	1.3−	0.3−	2000 04 06	699	0.2−	0.8+	2000 04 10	608	0.4−	0.8−
1997 11 29	704	0.4−	0.2+	2000 04 06	699	0.1−	0.6+	2000 04 10	608	0.0	1.0−

1997 XG₁₀ = 2000 GO₁

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	111.04360		(2000.0)	P	Q		
<i>n</i>	0.18749989	ω	233.99976	+0.32789044	−0.94345958		
<i>a</i>	3.0232127	Ω	197.05907	+0.91138071	+0.32947357		
<i>e</i>	0.1672408	<i>i</i>	9.55625	+0.24874295	+0.03648556		
<i>P</i>	5.26	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 12 06	709	0.5+	0.1+	1997 12 16	709	0.5−	0.1+	2000 04 04	684	0.1−	0.4−
1997 12 06	709	0.1+	0.2−	1997 12 16	709	0.0	0.4−	2000 04 04	684	0.2−	0.4−
1997 12 06	709	0.6+	0.3−	1997 12 16	709	0.3−	0.0	2000 04 05	684	0.5−	0.0
1997 12 06	709	0.6+	0.1−	1997 12 18	709	0.8−	0.3−	2000 04 05	684	0.8−	0.2+
1997 12 06	709	0.3+	0.1−	1997 12 18	709	0.6−	0.1−	2000 04 05	704	0.2−	0.5−
1997 12 13	709	0.6+	0.4+	1997 12 18	709	0.9−	0.2−	2000 04 05	704	0.2−	0.1−
1997 12 13	709	0.3+	0.2−	1997 12 18	709	1.0−	0.2−	2000 04 05	704	0.4+	0.1−
1997 12 13	709	0.1+	0.4+	1997 12 29	709	0.7+	0.8−	2000 04 05	704	0.0	0.4+
1997 12 13	709	0.8−	0.0	1997 12 29	709	0.4+	1.2+	2000 04 05	704	0.1+	0.3+
1997 12 13	709	0.4+	0.4−	1997 12 29	709	0.4+	0.2−	2000 04 06	704	0.8+	0.3+
1997 12 16	709	0.8−	0.1+	1997 12 29	709	0.2−	1.0+	2000 04 06	704	0.6+	0.0
1997 12 16	709	0.4−	0.0	1997 12 29	709	1.1+	1.2+	2000 04 06	704	0.3+	1.0+

1998 DA₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	254.61441		(2000.0)	P	Q		
<i>n</i>	0.26772555	ω	307.32822	+0.21652652	−0.97366114		
<i>a</i>	2.3842008	Ω	130.01091	+0.92262221	+0.18016149		
<i>e</i>	0.1491250	<i>i</i>	5.35014	+0.31919354	+0.13973486		
<i>P</i>	3.68	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 08 19	566	0.3−	0.1+	1998 02 21	552	1.3+	0.1+	1998 02 27	552	0.1−	0.1−
1996 08 19	566	0.0	0.1+	1998 02 21	552	0.7+	0.3−	1998 03 03	704	0.8−	0.1+
1996 08 19	566	0.3−	0.1−	1998 02 21	552	0.4−	0.3+	1998 03 03	704	(1.5+	3.2−)
1996 08 20	566	0.4+	0.2−	1998 02 24	552	0.5+	0.0	1998 03 03	704	0.2+	0.8−
1996 08 20	566	0.1+	0.3+	1998 02 24	552	0.8+	0.1+	1998 03 03	704	0.4−	1.1−
1998 01 10	910	0.0	0.1+	1998 02 25	566	0.2−	0.1−	1998 03 03	704	0.2+	1.1−
1998 01 10	910	0.2+	0.1−	1998 02 25	566	0.3−	0.1+	1998 03 04	704	0.7+	1.2+
1998 01 10	910	0.0	0.1−	1998 02 25	566	0.2−	0.2+	1998 03 04	704	0.0	0.3+
1998 01 28	691	0.5−	0.0	1998 02 26	552	0.6+	0.6+	1998 03 04	704	0.1−	0.4−
1998 01 28	691	0.6−	0.1−	1998 02 26	552	0.2−	0.4+	1998 03 04	704	1.1−	0.2+
1998 01 28	691	0.4−	0.2−	1998 02 26	552	0.0	0.6−	1998 03 04	704	0.2−	0.5+
1998 02 20	552	0.1+	0.5+	1998 02 26	552	0.0	0.1+	1998 03 18	552	0.1−	0.4−
1998 02 20	552	0.2−	1.0+	1998 02 27	552	1.1+	0.8−	1998 03 18	552	0.5−	0.5+

1998 DZ₃₂ = 1996 VD₁₀ = 1999 JN₈₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	130.52791		(2000.0)	P	Q		
<i>n</i>	0.17468979	ω	45.79912	−0.71046513	−0.66764807		
<i>a</i>	3.1692588	Ω	90.95588	+0.56541483	−0.72975413		
<i>e</i>	0.0307465	<i>i</i>	12.85497	+0.41898135	−0.14732604		
<i>P</i>	5.64	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 11 03	691	0.3+	0.4−	1998 02 27	098	0.6+	0.0	1999 05 12	704	1.3+	1.0+
1996 11 03	691	0.4+	0.0	1998 02 27	098	0.3−	0.1+	1999 05 12	704	1.5−	0.5+
1996 11 03	691	0.0	0.2−	1998 02 27	098	0.9−	0.3−	1999 05 12	704	0.1−	0.2−

M.P.C. 39985

1996 11 18	691	0.3−	0.1−	1998 03 02	098	1.5+	0.2−	1999 05 17	704	0.1+	1.5−
1996 11 18	691	0.0	0.2−	1998 03 02	098	(3.1−	1.8−)	1999 05 17	704	0.8−	1.0−
1996 11 18	691	0.1−	0.2+	1999 04 12	704	0.5+	0.1+	1999 05 17	704	0.2−	0.5−
1998 01 26	566	0.1−	0.5+	1999 04 12	704	(0.0	2.2−)	1999 06 09	699	0.4+	0.9+
1998 01 26	566	0.0	0.3+	1999 04 12	704	(2.8+	1.2−)	1999 06 09	699	0.5+	0.0
1998 01 26	566	0.1−	0.5+	1999 04 12	704	0.0	0.3+	1999 06 09	699	0.4−	0.1−
1998 02 27	098	0.7−	0.8−	1999 04 12	704	(5.4−	0.4−)				

1998 HV₄₇ = 1992 EA₂₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	199.34155		(2000.0)	P	Q		
<i>n</i>	0.17758360	ω	32.11727	−0.38823808	−0.91516534		
<i>a</i>	3.1347349	Ω	80.92493	+0.82060962	−0.39682317		
<i>e</i>	0.1085341	<i>i</i>	6.30042	+0.41936982	−0.07073739		
<i>P</i>	5.55	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 03 04	809	1.0−	0.4+	1998 03 25	704	1.7+	1.5+	1998 04 21	704	0.8+	0.2+
1992 03 09	809	0.2−	0.1+	1998 03 25	704	(5.0−	0.7−)	1998 04 21	704	0.5+	1.5−
1998 03 24	704	0.9−	1.3−	1998 04 20	704	0.1−	0.6+	1998 04 21	704	0.8−	0.8−
1998 03 24	704	(3.5+	1.0+)	1998 04 20	704	0.6+	0.6−	1998 04 22	704	0.5−	0.5+
1998 03 24	704	1.0−	0.2−	1998 04 20	704	0.1−	0.5+	1998 04 22	704	0.8−	0.0
1998 03 24	704	1.0+	1.1−	1998 04 20	704	0.5+	1.4+	1998 04 22	704	0.2−	0.2+
1998 03 24	704	1.2−	1.0−	1998 04 20	704	1.8−	0.3+	1998 04 22	704	0.2+	1.2+
1998 03 25	704	0.4−	1.4+	1998 04 21	704	0.1−	0.0	1998 04 22	704	1.7−	0.3−
1998 03 25	704	0.9−	1.4+	1998 04 21	704	0.0	0.1+				

1998 HL₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	358.83958		(2000.0)	P	Q		
<i>n</i>	0.42858349	ω	238.63843	+0.09118258	−0.99215618		
<i>a</i>	1.7422578	Ω	206.53560	+0.96628274	+0.10891302		
<i>e</i>	0.6359434	<i>i</i>	11.03459	+0.24079744	−0.06135204		
<i>P</i>	2.30	<i>H</i>	17.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 04 30	691	0.8+	0.0	1998 05 02	691	0.1−	0.4−	1998 05 29	711	0.4+	0.6−
1998 04 30	691	0.8+	0.1+	1998 05 02	691	0.3−	0.0	1998 05 29	711	0.6−	0.0
1998 04 30	691	0.5+	0.0	1998 05 04	696	0.4−	0.0	1998 05 30	711	0.6−	0.1+
1998 05 01	046	0.1+	1.0+	1998 05 04	696	0.5−	0.1+	1998 05 30	711	1.0+	0.1−
1998 05 01	046	(2.9−	0.8+)	1998 05 04	696	0.4−	0.0	2000 03 27	691	0.0	0.2−
1998 05 01	046	0.6−	0.4+	1998 05 04	691	0.3−	0.3−	2000 03 27	691	0.1−	0.4−
1998 05 01	046	0.4+	0.7−	1998 05 04	691	0.3+	0.1+	2000 03 27	691	0.1+	0.9+
1998 05 01	691	0.1−	0.1−	1998 05 04	691	0.4−	0.2−	2000 04 04	691	0.5−	0.8−
1998 05 01	691	0.4+	0.1−	1998 05 17	691	0.1+	0.2+	2000 04 04	691	0.1−	0.2+
1998 05 01	691	0.3−	0.1−	1998 05 17	691	0.1+	0.2+	2000 04 04	691	0.6+	0.3+
1998 05 02	691	0.3−	0.1+	1998 05 17	691	0.1+	0.1+				

1998 HH₉₁ = 1999 UF₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	55.35661		(2000.0)	P	Q		
<i>n</i>	0.27993515	ω	207.17074	+0.99924803	−0.00145686		
<i>a</i>	2.3143609	Ω	152.82879	+0.01406045	−0.94488971		
<i>e</i>	0.1487731	<i>i</i>	4.86729	−0.03613417	+0.32738557		
<i>P</i>	3.52	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 04 21	704	1.0+	0.8−	1998 05 01	704	0.2−	1.7+	1999 11 02	703	0.4−	0.0
1998 04 21	704	0.4+	1.0+	1998 05 01	704	1.7+	0.0	1999 11 02	703	1.0−	0.6−
1998 04 21	704	0.3−	1.6−	1998 05 01	704	1.4−	0.7+	1999 11 02	703	0.1−	0.0
1998 04 21	704	0.3+	0.1+	1999 10 12	699	0.2−	0.2+	1999 11 03	699	0.4+	0.2−
1998 04 22	704	1.1+	1.3+	1999 10 12	699	0.2−	0.1−	1999 11 03	699	0.3+	0.4+
1998 04 22	704	0.5−	0.6+	1999 10 12	699	0.1−	0.4−	1999 11 03	699	0.1+	0.1+

1998 04 22	704	1.1−	1.5−	1999 10 30	699	1.4+	0.2+	2000 01 05	704	0.2−	0.6−
1998 04 22	704	0.4−	0.6+	1999 10 30	699	0.1+	0.0	2000 01 05	704	1.0−	1.7+
1998 04 22	704	1.2−	1.7−	1999 10 30	699	(2.4+	0.3−)	2000 01 05	704	0.2+	0.0
1998 05 01	704	0.8+	0.4+	1999 11 02	703	0.5−	0.5+	2000 01 05	704	1.0+	0.7−

1998 HG₉₇ = 1987 KA₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	43.61339		(2000.0)	P		Q	
<i>n</i>	0.17693620	ω	261.83197	+0.69489567		+0.71440174	
<i>a</i>	3.1423768	Ω	52.52421	−0.61227505		+0.64770393	
<i>e</i>	0.1690242	<i>i</i>	5.94225	−0.37714621		+0.26478250	
<i>P</i>	5.57	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 05 30	413	0.0	0.5+	1998 05 22	704	0.3−	0.8+	1999 09 08	703	0.1−	0.2−
1987 05 30	413	0.1+	0.3−	1998 05 22	704	0.4+	0.8−	1999 09 08	703	0.1+	1.0−
1998 04 21	704	0.4+	0.0	1998 05 22	704	1.0−	0.2−	1999 09 08	703	0.3+	0.4−
1998 04 21	704	1.3+	0.1+	1998 05 24	704	0.7+	0.8−	1999 09 11	704	0.3+	0.3−
1998 04 21	704	1.6+	0.5−	1998 05 24	704	1.2+	0.0	1999 09 11	704	0.3−	0.8+
1998 04 21	704	0.8−	0.5+	1998 05 24	704	1.5+	0.8+	1999 09 11	704	0.2+	0.3−
1998 04 21	704	0.5+	0.8+	1998 05 24	704	0.1−	0.6−	1999 09 11	704	0.2+	0.4+
1998 04 22	704	1.0+	0.0	1998 05 24	704	(6.3−	0.2+)	1999 09 11	704	0.3−	0.7−
1998 04 22	704	0.6−	0.0	1998 05 26	327	1.1−	0.5−	1999 09 30	704	1.0+	0.2−
1998 04 22	704	(0.5−	2.2+)	1998 05 26	327	0.7−	0.4−	1999 09 30	704	0.2+	0.0
1998 04 22	704	0.5−	0.1−	1998 05 26	327	1.4−	0.7−	1999 09 30	704	0.6−	0.2+
1998 04 22	704	1.4−	0.3−	1998 05 28	327	0.9−	0.1+	1999 09 30	704	0.8−	0.5+
1998 05 01	704	0.9+	0.3−	1998 05 28	327	0.5−	0.6+	1999 09 30	704	1.2−	1.0+
1998 05 01	704	0.4+	0.5+	1998 05 28	327	0.5−	0.3+	1999 11 10	704	0.4+	0.0
1998 05 01	704	1.5+	0.3−	1999 08 13	699	0.2−	0.8+	1999 11 10	704	0.1+	0.0
1998 05 01	704	0.0	0.3+	1999 08 13	699	0.6+	0.4+	1999 11 10	704	1.1+	0.6−
1998 05 22	704	0.2−	0.5−	1999 08 13	699	0.0	0.1+	1999 11 10	704	0.2−	0.3+
1998 05 22	704	1.5−	1.1+	1999 09 08	703	0.3−	0.0	1999 11 10	704	0.4−	0.9−

1998 KS₃ = 1995 SC₅₅ = 2000 AN₇₅Id. M. E. Sansaturio (*MPC* 39194, unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	107.39108		(2000.0)	P		Q	
<i>n</i>	0.28294355	ω	128.05721	+0.91031559		+0.41188033	
<i>a</i>	2.2979268	Ω	207.68996	−0.40200239		+0.85618406	
<i>e</i>	0.2255151	<i>i</i>	5.06053	−0.09858802		+0.31193501	
<i>P</i>	3.48	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 09 20	693	0.5+	0.1+	1998 05 24	704	0.2−	0.5−	1999 12 06	704	0.1−	0.1−
1995 09 20	693	0.9−	0.2−	1998 05 24	704	1.2+	0.5−	1999 12 06	704	0.5−	0.1+
1995 09 25	693	0.5−	0.2+	1998 05 24	704	0.4+	0.8−	1999 12 06	704	0.2−	0.5−
1995 09 25	693	1.2+	0.7−	1998 05 24	699	0.2+	0.4+	1999 12 06	704	0.9−	0.3+
1998 04 22	704	0.2+	0.9−	1998 05 24	699	0.1−	0.0	1999 12 06	704	0.6−	0.1+
1998 04 22	704	0.3−	0.3+	1998 05 24	699	0.7+	0.0	1999 12 14	704	0.6+	0.0
1998 04 22	704	0.8−	0.9−	1998 06 27	699	1.0+	1.1−	1999 12 14	704	1.1+	0.1−
1998 04 22	704	0.5−	0.0	1998 06 27	699	0.5+	0.0	1999 12 14	704	0.6+	0.0
1998 04 22	704	1.4−	0.1+	1998 06 27	699	0.1−	0.3+	1999 12 14	704	0.0	0.5+
1998 05 22	704	0.3−	0.1−	1999 10 10	704	0.1−	0.4−	1999 12 14	704	0.1+	0.3+
1998 05 22	704	0.1−	0.6+	1999 10 10	704	0.0	0.4−	2000 01 05	704	0.5+	0.1−
1998 05 22	704	0.5−	0.6−	1999 10 10	704	0.7−	0.6−	2000 01 05	704	0.0	0.2−
1998 05 22	704	0.5−	0.4+	1999 10 10	704	0.4−	0.1+	2000 01 05	704	0.2+	0.0
1998 05 22	699	0.2−	0.4−	1999 10 21	704	0.1+	0.3−	2000 01 05	704	0.0	0.2+
1998 05 22	704	0.3−	0.8+	1999 10 21	704	0.7−	1.0−	2000 01 05	704	0.7−	0.4+
1998 05 22	699	0.4+	0.7−	1999 10 21	704	0.2−	0.2+	2000 01 06	704	1.4−	0.3−
1998 05 22	699	0.5−	0.4+	1999 10 21	704	1.3+	0.5−	2000 01 06	704	0.2−	0.1−
1998 05 23	699	0.4+	0.1+	1999 11 17	704	0.4+	0.6+	2000 01 06	704	0.2+	0.1−
1998 05 23	699	0.3+	0.1−	1999 11 17	704	0.5+	0.1−	2000 01 06	704	0.4−	0.3+
1998 05 23	699	0.0	0.2+	1999 11 17	704	0.6+	0.8−				
1998 05 24	704	0.2+	0.2−	1999 11 17	704	0.4+	0.8−				

1998 KY₈

Id. E. Bowell (1999 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	172.31788		(2000.0)	P		Q	
<i>n</i>	0.28013227	ω	99.56769	−0.32402089		+0.94370318	
<i>a</i>	2.3132751	Ω	151.24917	−0.91320414		−0.29360816	
<i>e</i>	0.1666575	<i>i</i>	7.95809	−0.24712073		−0.15237634	
<i>P</i>	3.52	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 05 03	566	0.2−	0.3−	1998 05 24	699	0.4−	0.4+	1998 06 28	699	0.4−	0.1+
1998 05 03	566	0.1−	0.2−	1998 05 24	699	0.2−	0.2+	1998 06 28	699	0.7+	0.3+
1998 05 03	566	0.1−	0.1+	1998 05 26	704	0.1−	0.2−	1998 06 28	699	0.0	0.3−
1998 05 23	704	0.6−	0.5+	1998 05 26	704	0.1−	0.4+	1999 10 12	699	0.1+	1.0−
1998 05 23	704	0.7+	0.3+	1998 05 26	704	1.1−	0.5+	1999 10 12	699	0.2−	0.7+
1998 05 23	704	0.3+	0.1−	1998 05 26	704	0.5−	0.2−	1999 10 12	699	(2.5+)	0.3+)
1998 05 23	704	1.0−	0.6−	1998 05 26	704	0.1−	0.5+	1999 10 17	699	0.1−	0.3−
1998 05 23	704	0.6−	0.1−	1998 06 03	704	0.6+	0.2−	1999 10 17	699	0.5+	1.7+
1998 05 23	699	0.6+	0.3+	1998 06 03	704	1.4+	1.0−	1999 11 07	704	0.8+	1.1−
1998 05 23	699	0.7+	0.4−	1998 06 03	704	0.4+	0.2−	1999 11 07	704	0.2+	0.3−
1998 05 23	699	0.2+	0.5−	1998 06 03	704	0.6+	0.1−	1999 11 07	704	1.2−	0.2−
1998 05 24	699	0.0	0.2+	1998 06 03	704	0.6−	0.3+				

1998 MG₁₃ = 1981 UP₂₀ = 1981 US₂₅ = 1990 EZ₈ = 2000 AQ₁₆₆Id. M. E. Sansaturio, G. V. Williams (d, *MPC* 20484)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	119.61813		(2000.0)	P		Q	
<i>n</i>	0.28179799	ω	152.20800	+0.98879813		+0.13872659	
<i>a</i>	2.3041502	Ω	200.04571	−0.14824331		+0.95574327	
<i>e</i>	0.1572939	<i>i</i>	9.24606	+0.01738331		+0.25944119	
<i>P</i>	3.50	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 25	675	0.6−	0.1−	1998 06 25	704	0.1−	0.2+	2000 01 08	704	0.2+	0.7−
1981 10 26	675	0.7−	0.3+	1999 10 20	704	0.9+	0.3−	2000 01 08	704	0.4+	0.6−
1981 10 28	095	1.5+	1.2−	1999 10 20	704	0.3−	0.1−	2000 01 10	704	0.5−	0.5−
1990 03 02	809	(4.9+	3.1−)	1999 10 20	704	0.3+	0.3−	2000 01 10	704	0.2+	0.2−
1990 03 02	809	(5.1+	3.1−)	1999 10 20	704	1.3−	0.7−	2000 01 10	704	0.1+	0.7−
1990 03 02	809	(4.9+	3.5−)	1999 12 05	704	0.4−	1.3+	2000 01 10	704	0.1−	0.2−
1997 04 28	704	1.2−	1.1+	1999 12 05	704	0.3−	0.5+	2000 01 10	704	0.1−	0.6−
1997 04 28	704	1.0+	0.4−	1999 12 05	704	0.0	0.7−	2000 01 10	704	0.0	0.1−
1997 04 28	704	0.3+	0.5−	1999 12 05	704	0.3−	0.4−	2000 01 10	704	1.5−	0.8+
1997 04 28	704	1.0−	1.0−	1999 12 05	704	0.2+	0.2−	2000 01 10	704	0.8+	0.5−
1998 06 19	704	0.0	1.0−	1999 12 14	704	0.5+	0.3−	2000 01 10	704	0.3−	0.4−
1998 06 19	704	0.3−	0.4−	1999 12 14	704	0.2+	0.3−	2000 01 10	704	0.0	0.2+
1998 06 19	704	0.5−	0.2−	1999 12 14	704	0.2−	0.0	2000 01 11	704	0.5+	0.6+
1998 06 19	704	1.1+	0.1+	1999 12 14	704	0.2−	0.2−	2000 01 11	704	0.1−	0.3−
1998 06 19	704	0.5+	0.7+	1999 12 14	704	0.2−	0.2+	2000 01 11	704	0.9+	0.0
1998 06 25	704	0.6−	0.5−	2000 01 08	704	0.3−	0.6+	2000 01 11	704	0.3+	0.1+
1998 06 25	704	0.2−	1.3−	2000 01 08	704	0.1+	0.1−	2000 01 11	704	0.1+	0.1+
1998 06 25	704	0.8+	0.9−	2000 01 08	704	0.0	0.3+				

1998 MC₃₃ = 2000 CP₇₂

2000 APR. 18

M.P.C. 39987

1998 06 24	704	1.5+	1.3+	1998 06 27	809	0.3+	0.8+	1999 12 31	699	0.2+	0.1+
1998 06 24	704	(0.2+	2.9+)	1998 06 27	809	1.3+	0.8+	2000 02 02	704	1.4+	0.4+
1998 06 24	704	0.6-	1.7+	1998 07 26	704	1.6-	0.0	2000 02 02	704	0.4+	0.1-
1998 06 26	809	0.1+	0.8+	1998 07 26	704	0.4-	0.4+	2000 02 02	704	0.1+	0.5-
1998 06 26	809	0.3-	0.4+	1998 07 26	704	0.4-	0.1+	2000 02 02	704	0.5-	2.0-
1998 06 26	809	0.1-	0.2+	1998 07 26	704	0.1-	0.4+	2000 02 03	704	0.7+	0.9+
1998 06 26	704	0.2-	0.1-	1999 12 14	704	0.6+	0.4+	2000 02 03	704	0.1-	0.0
1998 06 26	704	0.0	0.5+	1999 12 14	704	0.6-	0.4+	2000 02 03	704	0.4-	0.5+
1998 06 26	704	0.8-	0.6-	1999 12 14	704	0.8-	0.8+	2000 02 03	704	0.0	1.5+
1998 06 26	704	0.1-	1.9-	1999 12 14	704	1.2-	0.7+				

1998 MN₃₄ = 2000 CM₄₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	98.65812		(2000.0)	P	Q		
<i>n</i>	0.26931433	ω	116.14039	+0.90580692	-0.40438394		
<i>a</i>	2.3748147	Ω	267.93399	+0.32931944	+0.85973253		
<i>e</i>	0.2465934	<i>i</i>	7.26876	+0.26657556	+0.31198335		
<i>P</i>	3.66	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 06 24	704	0.5-	1.1+	1998 06 26	704	1.2-	0.3-	2000 02 02	704	0.7-	1.4+
1998 06 24	704	0.4-	0.3+	1998 06 26	704	1.1-	0.1-	2000 02 02	704	1.1+	0.4+
1998 06 24	704	0.4-	0.7-	1998 06 27	809	1.5+	0.2-	2000 02 02	704	0.0	1.3-
1998 06 24	704	(2.3-	0.6+)	1998 06 27	809	0.4+	0.3-	2000 02 02	704	0.3-	0.4-
1998 06 24	704	1.0-	0.7+	1998 06 27	809	1.2+	0.3-	2000 02 02	704	0.8+	0.8-
1998 06 26	809	0.9+	0.1-	2000 01 08	704	0.1-	0.6+	2000 02 06	704	0.5+	0.4-
1998 06 26	809	1.2+	0.3-	2000 01 08	704	0.6+	0.0	2000 02 06	704	0.4-	0.2-
1998 06 26	809	1.0+	0.4-	2000 01 08	704	1.1+	0.0	2000 02 06	704	0.2-	0.3+
1998 06 26	704	1.8-	0.2-	2000 01 08	704	0.0	0.3-	2000 02 06	704	0.1-	0.3+
1998 06 26	704	0.5+	0.7+	2000 01 08	704	1.4-	0.2-	2000 02 06	704	0.9-	0.4+

1998 OJ₅ = 1981 UO₁₇ = 2000 CN₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	94.20967		(2000.0)	P	Q		
<i>n</i>	0.28187295	ω	215.10119	+0.90424178	-0.42678400		
<i>a</i>	2.3037417	Ω	170.13182	+0.40830968	+0.85439043		
<i>e</i>	0.1244405	<i>i</i>	4.75961	+0.12502003	+0.29643281		
<i>P</i>	3.50	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 24	095	0.0	0.0	1998 07 30	910	0.1-	0.8+	2000 02 02	704	0.6-	0.4+
1998 07 29	910	0.1+	0.6-	1998 07 30	910	0.1-	0.8+	2000 02 02	704	0.3+	0.3+
1998 07 29	910	0.1+	1.1-	2000 02 02	704	0.2+	1.2+	2000 02 04	704	(1.3-	2.6-)
1998 07 29	910	0.0	0.7-	2000 02 02	704	0.3+	0.1+	2000 02 04	704	0.4-	1.9-
1998 07 30	910	0.0	0.7+	2000 02 02	704	1.0+	1.3+	2000 02 04	704	0.7-	1.5-

1998 OL₅ = 2000 CR₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	131.80436		(2000.0)	P	Q		
<i>n</i>	0.29930649	ω	196.52241	+0.99922949	+0.02980100		
<i>a</i>	2.2133935	Ω	161.71265	-0.01987196	+0.94531599		
<i>e</i>	0.1548833	<i>i</i>	4.66879	-0.03384559	+0.32479161		
<i>P</i>	3.29	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 07 26	910	0.1+	0.0	1998 07 30	910	0.2+	0.4+	2000 02 04	704	0.8-	0.2+
1998 07 27	910	0.1+	0.2-	1998 07 30	910	0.2+	0.0	2000 02 06	704	0.2+	0.3-
1998 07 27	910	0.1+	0.1-	1998 07 30	910	0.4+	0.1+	2000 02 06	704	0.2+	0.5+
1998 07 29	910	0.4-	0.0	2000 02 04	704	0.4+	0.3-	2000 02 06	704	0.5-	0.2+
1998 07 29	910	0.3-	0.2-	2000 02 04	704	1.1+	0.7+				
1998 07 29	910	0.5-	0.0	2000 02 04	704	0.7-	0.9-				

1998 QZ₁ = 2000 EL₁₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	143.58820		(2000.0)	P	Q		
<i>n</i>	0.29679750	ω	174.60273	+0.99935897	-0.03505953		
<i>a</i>	2.2258500	Ω	187.41806	+0.03038772	+0.93770497		
<i>e</i>	0.2302303	<i>i</i>	3.21658	+0.01892716	+0.34565912		
<i>P</i>	3.32	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 14	691	0.1-	0.2-	1998 08 21	566	0.0	0.0	1998 09 15	699	0.9-	0.7+
1997 04 14	691	0.1-	0.4-	1998 08 21	566	0.1+	0.1+	1998 09 15	699	0.8-	0.6+
1997 04 14	691	0.1-	0.3-	1998 08 21	566	0.1+	0.1-	1998 09 15	699	0.5-	0.0
1998 08 17	704	0.5+	0.1-	1998 08 21	468	1.1-	0.0	2000 03 03	704	0.1-	0.3+
1998 08 17	704	0.2-	0.9+	1998 08 21	468	0.2-	0.3+	2000 03 03	704	0.1+	1.0+
1998 08 17	704	0.6+	0.5+	1998 08 23	699	0.0	0.7+	2000 03 03	704	0.4-	0.4+
1998 08 17	704	1.0+	0.1-	1998 08 23	699	0.1+	0.0	2000 03 03	704	0.4+	0.6+
1998 08 17	704	0.8+	0.1-	1998 08 23	699	0.2+	0.3+	2000 03 11	704	0.4-	0.4+
1998 08 19	566	0.0	0.1-	1998 08 31	327	0.1+	0.0	2000 03 11	704	0.5+	1.2+
1998 08 19	566	0.5-	0.2-	1998 08 31	327	0.2+	0.2+	2000 03 11	704	0.6+	0.2+
1998 08 19	566	0.5-	0.1-	1998 08 31	327	0.0	0.0	2000 03 11	704	1.2+	1.4+

1998 QN₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	191.00125		(2000.0)	P	Q		
<i>n</i>	0.23971700	ω	283.20279	+0.63021106	+0.77468973		
<i>a</i>	2.5664738	Ω	26.08378	-0.65883971	+0.56891867		
<i>e</i>	0.1206911	<i>i</i>	6.77419	-0.41080928	+0.27602059		
<i>P</i>	4.11	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 24	910	0.6-	0.3+	1998 10 29	691	0.1+	0.4+	1998 11 11	704	0.4+	0.8-
1998 08 24	910	0.5-	0.2+	1998 10 29	691	0.2-	0.2+	1998 11 20	699	1.2-	0.6+
1998 08 24	910	0.4-	0.7+	1998 10 29	691	0.4-	0.1+	1998 11 20	699	0.8-	0.2-
1998 08 25	910	0.2-	0.1+	1998 11 10	704	0.7-	0.0	1998 11 20	699	0.5+	0.9+
1998 08 25	910	0.3+	0.2-	1998 11 10	704	0.8-	1.3+	2000 03 02	703	1.4-	0.3-
1998 08 25	910	0.2-	0.1-	1998 11 10	704	0.1-	0.2-	2000 03 02	703	0.8-	0.5+
1998 10 19	699	0.9+	0.8-	1998 11 10	704	0.4-	1.6-	2000 03 02	703	0.4+	0.4-
1998 10 19	699	0.8+	0.4+	1998 11 10	704	0.3+	1.2-	2000 03 02	703	0.2+	0.3-
1998 10 19	699	0.2+	1.2+	1998 11 11	704	0.1+	1.2-	2000 03 12	699	0.8+	0.5+
1998 10 20	691	0.4+	0.1+	1998 11 11	704	0.4+	0.2+	2000 03 12	699	0.8+	0.2-
1998 10 20	691	0.0	0.0	1998 11 11	704	0.8+	0.5+	2000 03 12	699	0.2-	0.4+
1998 10 20	691	0.7+	0.1+	1998 11 11	704	0.0	0.7-	2000 03 12	699	0.3+	0.3+

1998 QC₂₅ = 1990 AR = 2000 ED₁₀₇

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	95.30979		(2000.0)	P	Q		
<i>n</i>	0.30967528	ω	277.11505	+0.48622368	-0.87290960		
<i>a</i>	2.1637065	Ω	143.70336	+0.82614015	+0.44421130		
<i>e</i>	0.1183877	<i>i</i>	3.89311	+0.28474372	+0.20175518		
<i>P</i>	3.18	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 01 01	511	(44.0+	1.0-)	1998 09 18	704	0.1+	1.4-	2000 03 11	699	0.2+	0.1-
1990 01 02	511	(42.7+	1.5-)	1998 09 18	704	1.1-	1.1+	2000 03 12	704	0.1+	0.3+
1997 04 06	566	0.2-	0.8-	1998 09 18	704	0.8+	0.4+	2000 03 12	704	0.1-	0.2+
1997 04 06	566	0.1+	0.7-	1998 10 17	699	0.3-	0.5-	2000 03 12	704	0.3+	0.5+
1997 04 06	566	0.6-	0.3-	1998 10 17	699	0.5-	0.0	2000 03 12	704	0.2+	0.7+
1998 07 26	699	0.8-	0.7-	1998 10 17	699	0.3-	1.2+	2000 03 12	704	0.1+	0.5+
1998 07 26	699	0.7-	0.0	2000 01 08	704	0.5+	0.1-	2000 04 02	699	0.0	0.0
1998 07 26	699	0.5-	0.0	2000 01 08	704	0.3-	0.0	2000 04 02	699	0.1+	0.4-
1998 08 17	704	0.2+	0.0	2000 01 08	704	0.1-	0.7-	2000 04 02	699	0.1+	0.0
1998 08 17	704	0.4+	0.1-	2000 01 08	704	0.2+	0.1+	2000 04 02	699	0.0	0.1+
1998 08 17	704	0.4+	0.5+	2000 01 08	704	0.0	0.1+	2000 04 05	704	0.2+	0.3+
1998 08 17	704	0.7+	1.0+	2000 02 02	703	0.6+	0.2-	2000 04 05	704	0.4-	0.1+

1998 08 17	704	0.3−	0.3+	2000 02 02	703	1.2+	0.1−	2000 04 05	704	0.0	0.3+
1998 08 23	699	0.1+	0.3+	2000 02 02	703	0.2−	0.0	2000 04 05	704	0.2−	0.5+
1998 08 23	704	0.9+	0.5−	2000 02 02	703	0.3+	0.3+	2000 04 05	704	1.1−	0.5+
1998 08 23	704	0.9+	1.2−	2000 02 11	704	0.3+	0.1−	2000 04 06	608	0.3−	0.0
1998 08 23	699	0.7+	1.0+	2000 02 11	704	0.6+	0.4+	2000 04 06	608	0.3−	0.2+
1998 08 23	704	0.5−	0.5−	2000 02 11	704	0.3+	1.9+	2000 04 06	608	0.2−	0.1−
1998 08 23	704	0.5−	0.7−	2000 02 11	704	0.1+	0.6+	2000 04 08	704	0.1−	0.0
1998 08 23	699	0.3+	0.3+	2000 03 05	608	0.0	0.7−	2000 04 08	704	0.1−	0.4+
1998 08 23	704	0.9+	0.2+	2000 03 05	608	0.1+	1.4−	2000 04 08	704	0.2+	0.2−
1998 09 14	704	0.6−	0.1−	2000 03 05	608	1.1−	1.7−	2000 04 08	704	0.1−	0.2+
1998 09 14	704	1.3−	1.0+	2000 03 06	608	0.4−	0.3+	2000 04 08	704	0.5+	0.6+
1998 09 14	704	1.4−	0.3+	2000 03 06	608	0.3−	0.9−	2000 04 10	704	0.5+	0.2+
1998 09 14	704	0.7−	0.5+	2000 03 06	608	0.4−	0.4+	2000 04 10	704	0.2+	0.2+
1998 09 14	704	0.4+	0.7+	2000 03 11	699	0.2+	0.2+	2000 04 10	704	0.9−	0.2+
1998 09 18	704	(2.1+	1.9−)	2000 03 11	699	0.4+	0.4+	2000 04 10	704	0.4−	0.1+
1998 09 18	704	1.2+	0.3+	2000 03 11	699	0.4+	0.3+	2000 04 10	704	1.0+	0.8+

1998 QH₃₉ = 2000 CF₁₀₇

Id. G. V. Williams, M. W. Buie

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	158.42372	(2000.0)	
<i>n</i>	0.28631583	ω	197.07523
<i>a</i>	2.2798476	Ω	136.74949
<i>e</i>	0.2260329	<i>i</i>	6.76854
<i>P</i>	3.44	<i>H</i>	16.2
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1998 08 17	704	0.5+	0.7+	1998 09 14	704	0.8+	0.1−	1998 09 18	704	0.9+	0.4−
1998 08 17	704	0.1+	1.0+	1998 09 14	704	0.0	0.2+	1998 09 18	704	0.2−	0.6+
1998 08 17	704	0.8+	0.0	1998 09 14	704	0.1−	0.9−	1998 09 18	704	0.8−	1.3+
1998 08 17	704	0.3−	0.1−	1998 09 14	704	0.2+	0.6−	2000 02 05	695	0.1+	0.1−
1998 08 17	704	0.9−	1.4−	1998 09 14	704	0.3+	0.4−	2000 02 05	695	0.3+	0.0
1998 08 23	704	0.1−	0.0	1998 09 16	699	0.4+	0.0	2000 02 10	691	0.1−	0.1−
1998 08 23	704	0.1−	0.5−	1998 09 16	699	0.5−	1.3+	2000 02 10	691	0.2−	0.1−
1998 08 23	704	0.6+	0.3−	1998 09 16	699	0.2+	0.4+	2000 02 10	691	0.2−	0.2−
1998 08 23	704	0.3−	0.1−	1998 09 18	704	1.1−	0.2+				
1998 08 23	704	0.5−	0.2+	1998 09 18	704	0.1+	1.4−				

1998 QH₄₂ = 2000 EO₁₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	90.42142	(2000.0)	
<i>n</i>	0.23538640	ω	51.95436
<i>a</i>	2.5978564	Ω	338.05022
<i>e</i>	0.1277002	<i>i</i>	13.91938
<i>P</i>	4.19	<i>H</i>	13.9
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1998 06 29	704	0.8−	0.1+	1998 08 29	132	0.5−	0.6+	1998 12 09	704	0.0	1.2−
1998 06 29	704	0.4−	0.1−	1998 08 30	132	0.9+	0.1−	1998 12 09	704	(3.4−	0.3+)
1998 06 29	704	0.9+	0.4−	1998 09 14	704	0.4+	0.6+	1999 01 01	699	(0.7−	2.3−)
1998 06 29	704	1.1−	0.9+	1998 09 14	704	0.3+	0.3+	1999 01 01	699	0.6+	0.2−
1998 06 29	704	1.6+	0.1−	1998 09 14	704	0.5+	1.5+	1999 01 01	699	1.3+	0.9−
1998 08 17	704	0.2+	0.0	1998 09 14	704	1.3−	0.6+	2000 03 02	703	0.4+	0.2−
1998 08 17	704	0.4+	0.2+	1998 09 14	704	0.6−	1.4+	2000 03 02	703	0.1+	0.1+
1998 08 17	704	0.5+	0.3+	1998 09 15	699	0.4−	0.2+	2000 03 02	703	0.1−	0.2+
1998 08 17	704	0.6+	0.3+	1998 09 15	699	0.2−	0.3−	2000 03 02	703	0.4+	0.4+
1998 08 17	704	0.6+	0.6+	1998 09 15	699	0.4+	0.8−	2000 03 04	704	0.5−	0.6+
1998 08 23	704	0.0	0.7−	1998 09 18	704	0.3−	0.1+	2000 03 04	704	0.4−	0.4+
1998 08 23	704	0.4+	0.1+	1998 09 18	704	0.8−	0.8−	2000 03 04	704	0.3−	0.4−
1998 08 23	704	0.3−	0.0	1998 09 18	704	0.0	1.0−	2000 03 04	704	0.5−	0.2+
1998 08 23	704	0.8−	0.6−	1998 09 18	704	0.2+	0.3−	2000 03 04	704	0.2−	0.6−
1998 08 23	704	1.0−	0.1−	1998 09 18	704	0.5+	0.0	2000 04 02	704	0.1+	0.2−
1998 08 26	699	0.1−	0.2−	1998 11 15	699	0.3+	0.2+	2000 04 02	704	0.1+	0.0
1998 08 26	699	0.6+	1.0+	1998 11 15	699	0.3+	0.3+	2000 04 02	704	1.0+	0.0
1998 08 26	699	0.7−	0.2−	1998 11 15	699	0.8+	0.9+	2000 04 02	704	0.4+	0.6+
1998 08 26	132	0.7+	0.1+	1998 12 09	704	0.1+	0.3+	2000 04 02	704	0.5+	0.2+

1998 08 26	132	1.7−	1.3−	1998 12 09	704	2.0−	0.2+
1998 08 26	132	0.1+	0.8−	1998 12 09	704	(0.3+	2.4−)

1998 QR₄₅ = 2000 EJ₁₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	99.70811	(2000.0)	
<i>n</i>	0.26216856	ω	226.15364
<i>a</i>	2.4177737	Ω	178.80270
<i>e</i>	0.1891081	<i>i</i>	13.16371
<i>P</i>	3.76	<i>H</i>	14.5
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1998 08 17	704	0.6−	0.4+	1998 09 15	699	0.1−	0.1+	1998 12 08	704	0.2−	0.3−
1998 08 17	704	0.3+	0.0	1998 09 15	699	0.1+	0.1+	2000 03 06	608	0.6−	0.2−
1998 08 17	704	0.9+	0.8+	1998 09 18	704	0.0	0.0	2000 03 06	608	0.2+	0.2−
1998 08 17	704	0.7−	1.1+	1998 09 18	704	0.6−	0.2+	2000 03 06	608	0.3−	0.1−
1998 08 17	704	(0.1+	2.9+)	1998 09 18	704	0.2+	0.9+	2000 03 11	704	0.1−	0.8+
1998 08 23	704	0.4−	0.0	1998 09 18	704	1.1−	0.9+	2000 03 11	704	0.2+	0.6+
1998 08 23	704	0.2−	0.5+	1998 09 18	704	0.4+	0.1+	2000 03 11	704	0.0	0.8+
1998 08 23	704	0.8+	1.1−	1998 10 10	699	0.5+	0.2−	2000 03 11	704	0.2−	1.0+
1998 08 23	704	0.7+	1.1−	1998 10 10	699	0.0	0.1−	2000 03 11	704	0.1+	1.0+
1998 08 23	704	0.4−	0.1−	1998 10 10	699	0.3+	0.3+	2000 04 02	699	0.3+	0.1+
1998 08 30	699	0.3−	0.2+	1998 10 20	699	0.4+	0.2+	2000 04 02	699	0.8+	0.2+
1998 08 30	699	0.5−	1.0+	1998 10 20	699	0.1+	0.2+	2000 04 02	699	0.1+	0.9+
1998 08 30	699	0.7−	1.0+	1998 10 20	699	0.9+	0.0	2000 04 02	699	0.4−	0.3+
1998 09 14	704	0.6+	0.4−	1998 11 23	699	0.5−	0.2+	2000 04 05	704	0.4−	0.3−
1998 09 14	704	0.4−	0.1+	1998 11 23	699	0.3+	1.2+	2000 04 05	704	0.3−	0.4−
1998 09 14	704	0.4+	0.5−	1998 11 23	699	0.5−	0.4−	2000 04 05	704	0.4+	0.1+
1998 09 14	704	0.3−	1.0−	1998 12 08	704	0.9−	0.5−	2000 04 05	704	0.5+	0.0
1998 09 15	699	0.0	0.1+	1998 12 08	704	0.5+	0.4+				

1998 QE₄₇ = 2000 EZ₁₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	143.88986	(2000.0)	
<i>n</i>	0.28820878	ω	304.02324
<i>a</i>	2.2698539	Ω	56.51851
<i>e</i>	0.2155151	<i>i</i>	3.21096
<i>P</i>	3.42	<i>H</i>	15.7
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1998 07 26	699	0.1−	1.3+	1998 08 23	704	0.0	0.7−	1998 10 12	699	0.7−	0.6+
1998 07 26	699	0.3−	0.5−	1998 08 23	704	1.5−	0.3−	1998 10 12	699	0.3−	0.4+
1998 07 26	699	0.6+	0.7−	1998 09 14	704	0.0	0.1+	1998 10 12	699	0.4−	0.3+
1998 08 17	704	0.3−	0.3+	1998 09 14	704	0.7+	0.2−	2000 02 11	704	0.8+	0.7−
1998 08 17	704	1.1−	0.3+	1998 09 14	704	0.7+	0.2−	2000 02 11	704	0.4+	0.7−
1998 08 17	704	0.2−	0.7+	1998 09 14	704	0.6+	0.3−	2000 02 11	704	0.1−	0.2−
1998 08 17	704	0.2−	1.4+	1998 09 16	699	0.5−	0.5+	2000 02 11	704	1.5+	1.4+
1998 08 17	704	0.1+	1.3+	1998 09 16	699	0.9+	0.3−	2000 03 11	699	0.1+	0.1+
1998 08 21	566	0.1−	0.0	1998 09 16	699	0.3+	0.0	2000 03 11	699	0.9−	0.6+
1998 08 21	566	0.1−	0.1−	1998 09 18	704	1.0+	0.2−	2000 03 11	699	0.4−	1.3+
1998 08 21	566	0.4+	0.2−	1998 09 18	704	0.2+	0.4+	2000 03 11	699	0.2+	0.5+
1998 08 23	704	0.6−	0.3−	1998 09 18	704	0.7+	0.2−	2000 03 12	704	0.2+	1.2+
1998 08 23	704	0.7−	0.6−	1998 09 18	704	1.1+	0.1+	2000 03 12	704	0.1+	0.6+
1998 08 23	704	1.2−	0.9−	1998 09 18	704	0.3−	0.4+	2000 03 12	704	0.6−	0.9−

1998 QA₅₂ = 2000 EY₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				
M	135.72176	(2000.0)	P	Q
n	0.31049657	ω 95.83879	+0.86045675	-0.50258305
a	2.1598894	Ω 294.35831	+0.42346869	+0.79686623
e	0.1282178	i 5.27877	+0.28335217	+0.33528271
P	3.17	H 15.4	G 0.15	U 4

2000 APR. 18

M.P.C. 39989

Residuals in seconds of arc

1998 08 17	704	0.3+	0.3+	1998 08 30	699	0.3-	0.2+	2000 03 09	704	0.0	0.3+
1998 08 17	704	0.5+	0.1+	1998 10 11	699	0.2-	1.5+	2000 03 12	699	0.3+	0.1-
1998 08 17	704	0.0	0.1+	1998 10 11	699	0.6-	0.9+	2000 03 12	699	0.0	0.8-
1998 08 17	704	0.3-	1.0-	1998 10 11	699	0.6-	0.9+	2000 03 12	699	0.7-	0.4+
1998 08 17	704	0.1+	1.1+	1998 12 09	704	1.7-	1.5-	2000 03 12	699	0.7+	0.3-
1998 08 23	704	0.1-	0.1-	1998 12 09	704	0.8+	0.4-	2000 04 02	699	1.0-	0.2+
1998 08 23	704	1.2+	1.1-	1998 12 09	704	0.8+	0.0	2000 04 02	699	1.9+	0.7-
1998 08 23	704	0.3-	0.2-	1998 12 09	704	(3.8- 1.1+)		2000 04 02	699	0.6-	0.1-
1998 08 23	704	(1.6- 2.2-)		2000 03 09	704	0.7+	0.1-	2000 04 02	699	1.0-	1.0+
1998 08 30	699	0.7-	0.2-	2000 03 09	704	0.5+	1.3+				
1998 08 30	699	0.1+	0.2+	2000 03 09	704	0.1+	0.9+				

1998 QE₅₆ = 2000 EC₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	251.00550		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.36788096	ω	124.62275		+0.57050208		+0.82129521
a	1.9289953	Ω	180.17753		-0.82128178		+0.57050043
e	0.0809298	i	23.72871		+0.00485847		-0.00185670
P	2.68	H	14.4	G	0.15	U	3

Residuals in seconds of arc

1998 08 28	704	0.1-	0.3+	1998 10 16	704	0.6+	0.7+	2000 03 10	691	0.0	0.0
1998 08 28	704	0.7+	1.0+	1998 10 16	704	0.1-	0.5+	2000 03 10	691	0.0	0.1-
1998 08 28	704	0.5-	0.2-	1998 10 16	704	0.6-	0.9-	2000 04 05	704	0.1+	0.3+
1998 08 28	704	0.1-	0.6+	1998 10 16	704	0.2-	0.7-	2000 04 05	704	0.3+	0.1+
1998 08 28	704	0.2-	0.7-	2000 02 02	704	0.3-	0.1-	2000 04 05	704	0.2-	0.0
1998 08 31	704	0.0	0.2+	2000 02 02	704	0.6-	0.7+	2000 04 05	704	0.2+	0.1+
1998 08 31	704	0.3+	0.9-	2000 02 02	704	0.5+	0.8+	2000 04 05	704	0.3+	0.1-
1998 08 31	704	1.1+	0.3-	2000 02 10	704	0.1-	0.3-	2000 04 08	704	0.2-	0.2+
1998 08 31	704	0.3+	0.1-	2000 02 10	704	0.8-	1.1+	2000 04 08	704	0.7-	0.3+
1998 08 31	704	0.8+	0.5-	2000 02 10	704	0.4+	0.9+	2000 04 08	704	0.2-	0.3-
1998 09 22	699	0.2-	1.1+	2000 02 10	704	1.6+	1.4+	2000 04 08	704	0.6-	0.2-
1998 09 22	699	0.5+	1.2+	2000 03 08	704	0.4+	0.4+	2000 04 08	704	0.5-	0.5-
1998 09 22	699	0.2-	1.5+	2000 03 08	704	0.2+	0.1-	2000 04 14	704	0.4+	0.7+
1998 09 24	699	0.3-	1.1+	2000 03 08	704	0.2-	0.0	2000 04 14	704	0.1+	0.3+
1998 09 24	699	0.2-	0.9+	2000 03 08	704	0.4+	0.3+	2000 04 14	704	0.1+	0.6+
1998 09 24	699	0.5-	0.7+	2000 03 08	704	0.0	0.7-	2000 04 14	704	0.2-	0.9+
1998 10 16	704	0.7-	0.1+	2000 03 10	691	0.2-	0.1-	2000 04 14	704	0.1+	0.8+

1998 QJ₅₉ = 2000 DP₉₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	44.77149		(2000.0)		P	Q	
n	0.18148552	ω	79.85783		+0.22042624	-0.97537558	
a	3.0896413	Ω	357.37334		+0.81973871	+0.18935400	
e	0.2806212	i	9.29109		+0.52862152	+0.11308198	
P	5.43	H	15.3	G	0.15	U	4

Residuals in seconds of arc

1998 08 26	691	0.2+	0.2+	1998 09 18	704	1.1-	1.2-	2000 02 06	703	0.1-	0.7+
1998 08 26	691	0.0	0.2+	1998 09 18	704	0.3-	0.8+	2000 02 06	703	0.1-	0.9-
1998 08 26	691	0.1-	0.5+	1998 09 23	691	0.6-	0.2+	2000 02 06	703	0.6-	0.1-
1998 08 31	691	0.8-	0.8+	1998 09 23	691	0.7-	0.5+	2000 02 29	704	1.1+	0.5+
1998 08 31	691	0.5-	0.4+	1998 09 23	691	0.2-	0.2+	2000 02 29	704	0.7+	0.3-
1998 08 31	691	0.3-	0.2+	1998 09 28	691	1.0-	0.5+	2000 02 29	704	0.8+	0.5-
1998 09 14	704	2.0+	0.3+	1998 09 28	691	1.0-	0.5+	2000 02 29	704	0.1+	0.2+
1998 09 14	704	1.8+	1.3-	1998 09 28	691	1.0-	0.5+	2000 03 05	704	0.4-	0.1-
1998 09 14	704	0.5-	0.5-	2000 02 03	704	0.7-	1.8-	2000 03 05	704	0.2-	0.1-
1998 09 14	704	1.5+	0.1+	2000 02 03	704	0.5+	0.6+	2000 03 05	704	0.3-	0.2+
1998 09 14	704	0.8+	1.2-	2000 02 03	704	0.4-	0.7+	2000 03 05	704	0.2-	0.1-
1998 09 18	704	1.2+	1.7-	2000 02 03	704	0.0	0.6+				
1998 09 18	704	0.7+	0.1+	2000 02 06	703	0.3-	0.6+				

1998 QA₆₉ = 2000 EN₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	103.21304		(2000.0)		P		Q
n	0.24600636	ω	202.67805		+0.92462562		-0.38087553
a	2.5225425	Ω	179.70260		+0.37442024		+0.90839639
e	0.2223069	i	12.71539		+0.06983518		+0.17248139
P	4.01	H	14.9	G	0.15	U	4

Residuals in seconds of arc

1998 07 24	566	0.0	0.1-	1998 09 17	699	0.3+	0.7+	1998 12 08	704	0.6+	1.6+
1998 07 24	566	0.0	0.2-	1998 09 17	699	0.3+	0.4+	1998 12 08	704	0.9+	0.3+
1998 07 24	566	0.4-	0.1+	1998 10 12	699	1.2+	0.3+	2000 03 06	704	0.1+	0.5+
1998 08 24	704	0.2-	0.5+	1998 10 12	699	0.9+	0.0	2000 03 06	704	0.3-	1.1+
1998 08 24	704	0.3+	0.2-	1998 10 12	699	0.9+	0.9+	2000 03 06	704	0.1-	0.0
1998 08 24	704	0.4-	1.5+	1998 11 06	910	0.9-	0.0	2000 03 08	608	0.6+	0.2-
1998 08 24	704	0.0	1.6+	1998 11 06	910	1.0-	0.1-	2000 03 08	608	0.1+	0.8-
1998 08 27	704	0.2+	0.1-	1998 11 06	910	0.8-	0.1+	2000 03 08	608	0.4+	0.0
1998 08 27	704	0.1-	0.1-	1998 11 08	910	1.1-	0.8-	2000 03 27	699	0.4+	0.5+
1998 08 27	704	0.3+	0.7-	1998 11 08	910	0.9-	0.6-	2000 03 27	699	0.2-	0.9+
1998 08 27	704	0.3+	0.3-	1998 11 08	910	0.8-	0.7-	2000 03 27	699	0.7-	1.1+
1998 08 27	704	0.8-	0.9-	1998 12 08	704	1.7+	0.1+	2000 03 27	699	0.2+	0.4+
1998 09 17	699	0.0	0.5+	1998 12 08	704	1.4-	1.5-				

1998 QD₇₀ = 2000 ER₁₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	73.88443		(2000.0)		P		Q
n	0.25858102	ω	177.21959		+0.27108838		-0.94984892
a	2.4400850	Ω	257.01513		+0.88001107		+0.31018263
e	0.2392015	i	9.20510		+0.38998924		-0.03967070
P	3.81	H	14.4	G	0.15	U	4

Residuals in seconds of arc

1998 08 24	704	0.1-	0.4-	1998 09 19	704	1.6+	0.3-	2000 03 12	699	0.6+	0.2+
1998 08 24	704	0.1+	0.3-	1998 09 19	704	0.3+	0.6+	2000 03 12	699	0.7+	0.5-
1998 08 24	704	1.3-	0.2-	1998 09 19	704	0.1+	0.5+	2000 03 12	699	0.6+	0.3-
1998 08 24	704	0.1+	0.1+	1998 09 19	704	0.7+	0.3-	2000 03 13	704	0.1-	0.5+
1998 08 24	704	0.5-	0.0	1998 09 19	704	0.5+	0.4-	2000 03 13	704	0.1+	0.1-
1998 08 27	704	0.1-	0.1+	1998 09 23	704	0.2+	0.4-	2000 03 13	704	0.0	0.8+
1998 08 27	704	0.3+	0.1-	1998 09 23	704	0.2-	0.2+	2000 04 07	704	0.6-	0.1-
1998 08 27	704	0.5-	0.4+	1998 09 23	704	0.5+	0.0	2000 04 07	704	0.1-	0.4-
1998 08 27	704	1.3-	0.8+	1998 09 23	704	0.1-	0.3-	2000 04 07	704	0.3-	0.0
1998 08 27	704	0.1-	0.0	2000 03 12	699	0.2+	0.1-	2000 04 07	704	1.2-	0.2-

1998 QF₇₂ = 2000 EU₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	86.84310		(2000.0)		P		Q
n	0.24008620	ω	156.89035		+0.68803806		-0.69037852
a	2.5638419	Ω	248.78562		+0.62272779		+0.71988666
e	0.1865039	i	13.87569		+0.37257714		+0.07169864
P	4.11	H	14.9	G	0.15	U	4

Residuals in seconds of arc

1998 08 24	704	1.1-	0.3+	1998 09 19	704	0.5+	0.6+	1998 09 25	699	0.5-	1.1+
1998 08 24	704	(1.2+	2.0-)	1998 09 19	704	0.6-	1.2-	2000 03 06	608	0.1+	0.9-
1998 08 24	704	0.4+	1.0-	1998 09 19	704	0.0	0.0	2000 03 06	608	0.0	0.5-
1998 08 24	704	1.5+	0.3-	1998 09 19	704	1.0-	0.2+	2000 03 06	608	0.1-	0.6-
1998 08 24	704	0.7-	1.3-	1998 09 23	704	0.9+	1.1+	2000 03 09	704	0.9-	1.0+
1998 08 27	704	0.6-	0.5-	1998 09 23	704	0.0	0.4+	2000 03 09	704	0.1+	0.0
1998 08 27	704	0.6+	0.4+	1998 09 23	704	0.5-	0.4-	2000 03 09	704	0.2+	0.1+
1998 08 27	704	0.2+	2.0+	1998 09 23	704	0.2+	1.0-	2000 03 09	704	0.8+	0.7+
1998 08 27	704	(2.7-	3.4+)	1998 09 23	704	0.1+	1.2-	2000 03 09	704	0.1-	0.2+
1998 08 27	704	0.5-	0.7+	1998 09 25	699	0.1+	0.6+				
1998 09 19	704	1.7+	0.5-	1998 09 25	699	0.9-	0.1-				

M.P.C. 39990

2000 APR. 18

1998 QY₈₅ = 2000 EB₁₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22655577	ω	126.14085	+0.58357992	−0.79110428		
<i>a</i>	2.6649309	Ω	287.13910	+0.66976076	+0.59652111		
<i>e</i>	0.2362905	<i>i</i>	11.05718	+0.45918951	+0.13533878		
<i>P</i>	4.35	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 08 19	704	1.2+	0.1−	1998 09 19	704	(0.4−	2.2−)
1998 08 19	704	1.7+	1.4+	1998 09 19	704	0.1+	0.8−
1998 08 19	704	1.0+	0.8+	1998 09 19	704	1.6−	0.5−
1998 08 19	704	0.5+	0.2+	1998 09 19	704	0.9+	1.4−
1998 08 19	704	0.7−	0.2−	1998 09 19	699	0.9+	0.3+
1998 08 24	704	0.4−	0.1+	1998 09 19	699	0.2−	1.0+
1998 08 24	704	0.1+	0.2+	1998 09 19	699	1.0−	0.3+
1998 08 24	704	0.4+	1.7+	1998 09 23	704	1.4+	1.4−
1998 08 24	704	0.1+	0.2−	1998 09 23	704	(0.5+	2.9−)
1998 08 24	704	0.0	0.1+	1998 09 23	704	(2.8+	1.4−)
1998 08 27	704	0.8−	1.1+	1998 09 23	704	(2.8+	4.1−)
1998 08 27	704	1.7−	1.0+	1998 10 18	699	0.7−	0.2−
1998 08 27	704	1.4−	0.1−	1998 10 18	699	0.9−	0.4+
1998 08 27	704	(4.2−	1.1−)	1998 10 18	699	0.1+	0.3+
1998 08 27	704	0.1−	0.9−	1998 12 09	704	0.2+	0.4+
1998 09 19	704	0.8+	0.5−	1998 12 09	704	(2.8−	1.6−)

1998 QE₈₈ = 2000 AG₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22778615	ω	89.18672	+0.62594052	−0.76515792		
<i>a</i>	2.6553259	Ω	320.71133	+0.58666105	+0.58936163		
<i>e</i>	0.0911506	<i>i</i>	13.77436	+0.51383585	+0.25920307		
<i>P</i>	4.33	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 08 24	704	1.7−	0.5+	1998 09 19	699	0.7+	0.3+
1998 08 24	704	0.8+	0.4+	1998 09 19	699	0.7−	0.9−
1998 08 24	704	1.1−	0.2−	1998 12 09	704	0.0	1.3−
1998 08 24	704	0.9−	0.5−	1998 12 09	704	0.7+	1.2−
1998 08 24	704	0.8−	0.3+	1998 12 09	704	0.7+	0.1+
1998 08 27	704	0.1−	1.2+	1998 12 09	704	(0.2+	3.4−)
1998 08 27	704	1.4+	0.1−	2000 01 03	704	0.2+	0.1−
1998 08 27	704	0.0	0.8−	2000 01 03	704	0.1+	1.0−
1998 08 27	704	0.4+	0.3+	2000 01 03	704	0.6+	0.9−
1998 08 27	704	0.5−	0.2−	2000 01 03	704	0.5+	0.1+
1998 09 18	699	0.2+	0.4+	2000 01 03	704	0.1−	0.9−
1998 09 18	699	0.3+	0.1+	2000 01 04	704	0.4+	0.0
1998 09 18	699	0.1+	0.9+	2000 01 04	704	0.0	0.1−
1998 09 19	699	0.4+	0.6+	2000 01 04	704	0.5+	0.6+

1998 QQ₈₈ = 2000 EW₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27154061	ω	208.26464	+0.13792360	−0.98049975		
<i>a</i>	2.3618167	Ω	234.14123	+0.93814561	+0.17465039		
<i>e</i>	0.0867795	<i>i</i>	9.94652	+0.31758447	−0.09009708		
<i>P</i>	3.63	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 08 24	704	0.2−	1.8+	1998 09 19	704	1.5+	0.4+
1998 08 24	704	1.5+	0.2−	1998 09 19	704	0.7−	1.6−
1998 08 24	704	1.2+	0.1−	1998 09 19	704	1.5+	0.4+
1998 08 27	704	1.1−	0.6+	1998 09 19	704	0.4−	1.7−
1998 08 27	704	0.4+	0.0	1998 09 23	704	0.1−	0.2−
				2000 03 06	608	0.8−	0.3−
				2000 03 06	608	0.9−	1.0−
				2000 03 06	608	0.7−	0.3+
				2000 03 08	704	0.4+	0.3−
				2000 03 08	704	0.2+	0.3+

1998 08 27	704	0.4−	1.0+	1998 09 23	704	0.7+	0.3+	2000 03 08	704	1.3+	1.2+
1998 08 27	704	0.1−	1.0−	1998 09 23	704	0.2−	1.1+	2000 03 08	704	0.4+	0.1−
1998 08 27	704	1.7−	1.6−	1998 09 23	704	1.9−	1.0+				

1998 QW₉₂ = 1998 VG₂₅

Id. A. Milani (d, MPC 34339)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26423859	ω	340.23057	+0.68968227	−0.72218758		
<i>a</i>	2.4051300	Ω	66.12369	+0.67188114	+0.61106414		
<i>e</i>	0.2038770	<i>i</i>	3.30758	+0.27002609	+0.32410757		
<i>P</i>	3.73	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 08 28	704	0.5−	1.6+	1998 12 08	704	0.8+	1.9−
1998 08 28	704	0.8−	0.8+	1999 01 06	699	0.4−	0.7+
1998 08 28	704	0.7−	1.3+	1999 01 06	699	0.1−	0.1+
1998 08 31	704	0.2−	0.2+	1999 01 06	699	0.0	0.2+
1998 08 31	704	0.1−	0.5+	1999 01 06	910	0.8−	0.2−
1998 08 31	704	0.0	0.5+	1999 01 06	910	0.8−	0.1−
1998 08 31	704	0.2+	0.1+	1999 01 06	910	0.9−	0.0
1998 08 31	704	1.1+	1.6−	1999 01 07	910	1.1−	0.1+
1998 10 18	699	0.0	0.1−	1999 01 07	910	1.5−	0.1−
1998 10 18	699	0.1+	0.1−	1999 01 07	910	0.6−	0.3+
1998 10 18	699	0.1+	0.2−	1999 01 08	704	0.1+	1.5+
1998 10 22	120	0.4+	0.4−	1999 01 08	704	1.1+	0.4+
1998 10 22	120	0.9+	0.6−	1999 01 08	704	1.3−	0.9+
1998 11 10	704	0.6−	1.1+	1999 01 08	704	0.0	0.9−
1998 11 10	704	0.8−	0.3+	1999 01 08	704	0.3+	1.3+
1998 11 10	704	0.9−	0.3+	1999 01 11	704	1.1+	0.1+
1998 11 10	704	0.4−	1.0+	1999 01 11	704	1.9+	0.8+
1998 11 11	704	0.0	1.0+	1999 01 11	704	0.6−	0.9−
1998 11 11	704	0.1−	0.3−	1999 01 11	704	0.4+	1.0−
1998 11 11	704	1.1−	0.1+	1999 02 02	699	1.0−	0.8+
1998 11 11	699	0.4−	0.0	1999 02 02	699	0.4+	1.8−
1998 11 11	699	0.3+	0.0	1999 02 02	699	0.7+	0.8+
1998 11 11	699	0.0	0.4+	1999 02 11	691	0.5−	0.3−
1998 11 15	120	0.6+	0.2−	1999 02 11	691	0.7−	1.2−
1998 11 15	120	0.4+	0.2−	1999 02 11	691	0.2−	0.6−
1998 12 08	704	1.6+	0.7−	1999 02 18	691	(2.6+	0.7−)
1998 12 08	704	(2.2+	0.9−)	1999 02 18	691	1.9+	0.6−

1998 QB₉₃ = 2000 EA₁₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23889607	ω	279.84873	+0.88883653	−0.45439325		
<i>a</i>	2.5723499	Ω	107.19733	+0.44093124	+0.81302496		
<i>e</i>	0.2087954	<i>i</i>	3.54874	+0.12469667	+0.36402912		
<i>P</i>	4.13	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 08 28	704	0.2+	0.4−	1998 11 16	566	0.3−	0.3−
1998 08 28	704	0.4−	1.0−	1998 11 16	566	0.3−	0.3−
1998 08 28	704	0.2+	1.1+	1998 11 17	734	0.1+	0.3+
1998 08 31	704	0.7−	0.9+	1998 11 17	734	0.4+	0.4−
1998 08 31	704	0.6+	0.2+	1998 11 17	734	0.4+	0.0
1998 08 31	704	1.5+	1.1−	1998 11 17	428	0.3+	0.4+
1998 08 31	704	0.3−	1.1−	1998 11 17	428	0.3+	0.4+
1998 08 31	704	0.5−	0.1+	1998 11 17	426	0.0	0.4−
1998 10 15	098	0.4−	1.6+	1998 11 17	426	0.1+	0.4−
1998 10 15	098	1.0−	1.2−	1998 11 17	426	0.1+	0.3−
1998 10 22	120	0.3−	0.7−	1998 11 20	426	0.4+	0.2−
1998 10 22	120	0.3−	0.3−	1998 11 20	426	0.1+	0.2−
1998 10 23	120	0.0	0.2+	1998 11 20	426	0.1−	0.4−
1998 10 23	120	0.3−	0.0	1999 01 07	699	0.3−	0.3+
1998 10 24	120	0.3+	1.2−	1999 01 07	699	0.5−	0.6+
				2000 03 08	608	0.4+	0.3−
				2000 03 08	608	0.3+	0.9−
				2000 03 08	608	0.9+	0.3−
				2000 03 11	699	0.1−	0.2+
				2000 03 11	699	2.0−	0.2−
				2000 03 11	699	0.4+	0.2+
				2000 03 11	699	0.2+	0.1−
				2000 03 12	704	0.9−	0.3−
				2000 03 12	704	0.1+	0.0
				2000 03 12	704	0.4+	0.6+
				2000 03 12	704	0.0	0.2+
				2000 03 12	704	0.1+	0.1+
				2000 04 02	699	0.1+	0.6−
				2000 04 02	699	0.6+	0.6−
				2000 04 02	699	0.2+	0.4−

2000 APR. 18

M.P.C. 39991

1998 10 24	120	1.4+	0.4-	1999 01 07	699	0.0	0.7-	2000 04 02	699	0.1-	0.7+
1998 10 29	120	0.6+	0.3-	1999 02 04	704	0.9+	0.1+	2000 04 03	704	1.7+	0.5+
1998 10 29	120	0.9+	0.1+	1999 02 04	704	0.8-	0.2-	2000 04 03	704	0.4-	0.7+
1998 11 10	704	0.4-	0.4+	1999 02 04	704	(2.6-	0.1+)	2000 04 03	704	0.3+	0.3-
1998 11 10	704	0.7-	0.4+	1999 02 04	704	0.2+	0.1+	2000 04 03	704	0.5-	2.0-
1998 11 10	704	0.3-	0.7+	2000 02 26	703	0.6+	1.6-	2000 04 08	704	0.9-	0.8+
1998 11 10	704	0.3-	1.7+	2000 02 26	703	(0.2+	2.5-)	2000 04 08	704	0.0	0.1+
1998 11 10	704	0.6-	1.6+	2000 02 26	703	(4.6-	0.0)	2000 04 08	704	0.9-	1.5+
1998 11 16	566	0.0	0.5-	2000 02 26	703	1.9-	0.5-	2000 04 08	704	1.2+	1.9+

1998 QK₉₃ = 2000 GX₂₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	71.52733		(2000.0)		P		Q
<i>n</i>	0.22631025	ω	77.49128	-0.13901241	-0.98683244		
<i>a</i>	2.6668580	Ω	21.04485	+0.79543465	-0.16100661		
<i>e</i>	0.1534746	<i>i</i>	13.31268	+0.58988073	-0.01544671		
<i>P</i>	4.36	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 28	704	(0.3+	3.0-)	2000 03 09	704	0.5+	0.3-	2000 04 07	704	0.4+	0.3+
1998 08 28	704	(2.0+	2.9-)	2000 03 09	704	0.5+	0.0	2000 04 07	704	0.4+	0.2+
1998 08 28	704	0.8+	0.9+	2000 03 09	704	0.1+	0.1+	2000 04 07	704	0.2+	0.0
1998 08 28	704	1.0-	0.6+	2000 03 09	704	0.2+	0.4+	2000 04 07	704	0.1+	0.3+
1998 08 31	704	0.5-	0.5+	2000 03 09	704	0.1-	0.1+	2000 04 07	704	0.2+	0.0
1998 08 31	704	1.3-	0.2+	2000 03 27	699	0.1+	0.6-	2000 04 07	704	0.0	0.2+
1998 08 31	704	0.3+	0.0	2000 03 27	699	0.4+	0.5-	2000 04 08	704	0.1+	0.1+
1998 08 31	704	0.4-	0.6-	2000 03 27	699	0.5+	0.7-	2000 04 08	704	0.3+	0.2-
1998 08 31	704	0.6+	0.4-	2000 03 27	699	0.6-	0.5-	2000 04 08	704	0.1+	0.1+
1998 10 25	098	0.5+	0.6-	2000 04 05	704	0.0	0.1+	2000 04 08	704	0.4+	0.1+
1998 10 25	098	0.2+	1.2-	2000 04 05	704	0.2+	0.2-	2000 04 08	704	0.3+	0.2-
1998 10 31	112	0.3-	0.1+	2000 04 05	704	0.0	0.2-	2000 04 10	704	0.2-	0.1-
1998 10 31	112	0.3-	0.7+	2000 04 05	704	0.3+	0.5-	2000 04 10	704	0.3-	0.1+
1998 11 01	699	0.9+	0.1+	2000 04 06	699	0.3-	0.1-	2000 04 10	704	0.4+	0.5+
1998 11 01	699	0.5+	0.4+	2000 04 06	704	0.3-	0.1-	2000 04 10	704	0.1+	0.8+
1998 11 01	699	0.0	1.1+	2000 04 06	704	0.4-	0.3+	2000 04 10	704	0.1-	0.9+
1998 11 14	704	0.1+	0.0	2000 04 06	699	0.2-	0.1-	2000 04 11	691	(3.2-	0.7+)
1998 11 14	704	0.1-	0.8-	2000 04 06	704	0.3-	0.2+	2000 04 11	691	0.5-	0.3-
1998 11 14	704	1.1+	0.4-	2000 04 06	699	0.2-	0.3-	2000 04 11	691	0.5-	0.4-
1998 11 14	704	0.3+	1.3-	2000 04 06	704	0.1-	0.1-	2000 04 14	704	0.7-	0.3+
1998 11 14	704	0.0	0.5-	2000 04 06	699	0.3-	0.1-	2000 04 14	704	0.1+	0.1+
1998 11 16	704	0.5-	0.3+	2000 04 06	704	0.2-	0.2-	2000 04 14	704	0.1+	0.1+
1998 11 16	704	0.4-	0.1+	2000 04 07	704	0.0	0.3+	2000 04 14	704	0.4-	0.4+
1998 11 16	704	(2.3-	0.7-)	2000 04 07	704	0.4+	0.1+	2000 04 14	704	0.2-	0.5+
1998 11 16	704	0.5-	0.6+	2000 04 07	704	0.3+	0.0				
1998 11 16	704	0.8-	1.0+	2000 04 07	704	0.1-	0.0				

1998 QQ₉₃ = 1998 TA₃₀ = 2000 FR₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	119.00631		(2000.0)		P		Q
<i>n</i>	0.23445557	ω	340.76704	+0.77879380	-0.59805030		
<i>a</i>	2.6047278	Ω	57.43042	+0.60092760	+0.62478184		
<i>e</i>	0.1524685	<i>i</i>	12.97742	+0.17990616	+0.50197957		
<i>P</i>	4.20	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 04 26	691	1.4-	0.1-	1998 11 11	704	0.4+	0.1-	2000 01 07	704	0.7+	0.8-
1992 04 26	691	(4.2-	1.8-)	1998 11 11	699	0.3+	0.1-	2000 03 05	704	0.4-	0.3-
1992 04 26	691	0.6+	1.2-	1998 11 11	704	0.8-	0.1-	2000 03 05	704	(4.2-	0.2+)
1998 08 28	704	1.1+	0.3-	1998 11 11	699	0.1+	0.3-	2000 03 05	704	(4.0-	0.3+)
1998 08 28	704	0.4+	1.3+	1998 11 18	704	0.1+	0.7+	2000 03 05	704	(4.7-	0.4+)
1998 08 28	704	0.2-	0.3-	1998 11 18	704	1.2+	0.3-	2000 03 05	704	(4.4-	0.3+)
1998 08 28	704	(2.8-	0.2+)	1998 11 18	704	1.0+	0.8-	2000 03 12	704	0.1-	0.1-
1998 08 31	704	0.2-	0.2-	1998 11 18	704	1.3+	1.3-	2000 03 12	704	0.1-	0.2-
1998 08 31	704	0.1+	0.4-	1998 11 18	704	(2.3+	1.5-)	2000 03 12	704	0.0	0.2-
1998 08 31	704	0.9+	1.1-	1999 01 06	699	0.2-	0.2-	2000 03 12	704	0.1+	0.0

1998 08 31	704	0.2+	0.2+	1999 01 06	699	0.5-	0.7+	2000 03 12	704	0.3-	0.2-
1998 08 31	704	(2.1+	1.2-)	1999 01 06	699	0.2-	0.2+	2000 03 28	704	0.7-	0.1+
1998 10 15	098	1.5-	0.2+	1999 01 08	704	(3.4-	0.3+)	2000 03 28	704	0.1-	0.1-
1998 10 15	098	(1.3-	3.1-)	1999 01 08	704	(2.2-	0.6+)	2000 03 28	704	0.1+	0.2-
1998 10 29	120	1.1-	0.1-	1999 01 08	704	0.8-	0.8+	2000 04 04	704	0.3+	0.2+
1998 10 29	120	0.9-	0.2-	1999 01 08	704	(4.2-	1.0+)	2000 04 04	704	0.2+	0.1-
1998 10 30	120	0.4-	0.5-	1999 01 08	704	(1.5-	3.3+)	2000 04 04	704	0.7+	0.5+
1998 10 30	120	0.6-	0.6-	1999 02 06	704	0.7+	0.9-	2000 04 04	704	0.2+	0.1+
1998 11 10	704	0.5+	0.7+	1999 02 06	704	0.3+	0.2-	2000 04 04	704	0.0	0.1-
1998 11 10	704	0.2-	0.8+	1999 02 06	704	1.9+	0.7+	2000 04 08	704	0.0	0.3+
1998 11 10	704	(0.8-	2.7+)	1999 02 06	704	0.6+	0.1-	2000 04 08	704	0.0	0.2+
1998 11 10	704	0.3-	2.0+	1999 02 06	704	1.6-	1.4-	2000 04 08	704	0.5-	0.0
1998 11 10	704	(0.1-	2.9+)	2000 01 07	704	0.9+	0.2+	2000 04 08	704	0.1+	0.4+
1998 11 11	699	0.1+	0.2-	2000 01 07	704	0.3-	0.0	2000 04 08	704	0.0	0.2+
1998 11 11	704	0.3-	0.0	2000 01 07	704	0.0	0.7+				

1998 QV₉₃ = 2000 DU₅₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	95.83017		(2000.0)		P		Q
<i>n</i>	0.28089592	ω	240.95046	+0.68774833	-0.72412851		
<i>a</i>	2.3090806	Ω	165.23522	+0.71622606	+0.66528955		
<i>e</i>	0.1554390	<i>i</i>	11.63151	+0.11841650	+0.18173527		
<i>P</i>	3.51	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.9-	0.4-	1998 09 01	327	0.0	0.5-	2000 03 03	704	0.1-	0.6-
1998 08 17	704	0.1-	1.0+	1998 09 01	327	0.1-	0.1-	2000 03 03	704	0.9+	0.6-
1998 08 17	704	0.5-	0.2-	1998 09 01	327	0.5-	1.0-	2000 03 11	704	0.6+	0.6-
1998 08 17	704	(2.4-	1.2+)	1998 09 15	699	0.1+	0.8+	2000 03 11	704	0.0	0.0
1998 08 17	704	0.6-	1.1+	1998 09 15	699	0.1-	0.6-	2000 03 11	699	0.2+	0.1-
1998 08 23	704	0.9+	0.7-	1998 09 15	699	0.4-	0.4+	2000 03 11	704	0.3-	0.4-
1998 08 23	704	1.1-	1.2-	2000 02 29	704	0.6-	0.3+	2000 03 11	704	0.5+	0.4+
1998 08 23	704	0.8-	0.9+	2000 02 29	704	0.0	0.1+	2000 03 11	699	0.3-	0.0
1998 08 23	704	0.3+	1.8-	2000 02 29	704	0.4-	0.0	2000 03 11	699	0.7-	0.7+
1998 08 25	910	1.3+	0.7+	2000 02 29	704	0.6-	0.0	2000 03 11	699	0.1-	0.5+
1998 08 25	910	1.1+	0.8+	2000 03 03	704	0.7+	0.2+				
1998 08 26	910	1.2+	0.7+	2000 03 03	704	0.0	0.3-				

1998 QZ₉₇ = 1987 KD₄ = 2000 GC₅₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	72.43598		(2000.0)		P		Q
<i>n</i>	0.29751088	ω	65.23016	-0.18127541	-0.98093743		
<i>a</i>	2.2222904	Ω	35.43837	+0.85304946	-0.19226376		
<i>e</i>	0.1549609	<i>i</i>	6.93469	+0.48933204	-0.02822079		
<i>P</i>	3.31	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 05 30	413	0.3+	0.0	1998 09 18	704	0.7+	0.6+	2000 04 04	699	0.8-	0.0
1987 05 30	413	0.2-	0.3+	1998 09 18	704	0.1+	1.0+	2000 04 05	704	0.4+	0.1-
1998 08 26	809	1.5+	0.6-	1998 09 24	699	1.1+	0.4+	2000 04 05	704	0.3+	0.1-
1998 08 26	809	1.9+	0.2-	1998 09 24	699	0.5+	0.7+	2000 04 05	704	0.4+	0.2-
1998 08 26	809	1.5+	0.4-	1998 09 24	699	0.0	0.0	2000 04 05	704	0.5+	0.2-
1998 08 27	809	(2.7+	0.0)	1998 09 26	704	0.7+	0.7-	2000 04 05	704	0.2+	0.2-
1998 08 27	809	1.8+	0.3-	1998 09 26	704	0.4+	0.4-	2000 04 06	704	0.1+	0.1-
1998 08 27	809	1.6+	0.0	1998 09 26	704	0.4+	1.9-	2000 04 06	704	0.1+	0.0
1998 08 28	704	0.9-	1.9+	1998 09 26	704	0.3+	0.8-	2000 04 06	704	0.0	0.1-
1998 08 28	704	0.9-	0.7-	1998 09 26	704	0.8+	1.0+	2000 04 06	704	0.0	0.3-
1998 08 28	704	(2.7-	2.9+)	1998 09 27	704	0.4+	0.3+	2000 04 06	704	0.2+	0.1+
1998 08 29	704	1.9-	0.5+	1998 09 27	704	1.0-	0.7+	2000 04 07	704	0.1-	0.3-
1998 08 29	704	0.5-	1.3-	1998 09 27	704	0.8-	0.4+	2000 04 07	704	0.0	0.1-
1998 08 29	704	(2.7-	0.3-)	1998 09 27	704	0.9-	0.4+	2000 04 07	699	0.4-	0.3+
1998 08 29	704	0.2-	0.7+	1998 09 27	704	0.8-	0.9+	2000 04 07	704	0.0	0.2-
1998 08 29	704	1.4-	0.8+	2000 03 14	703	0.6+	0.2-	2000 04 07	699	0.2-	0.6+
1998 09 14	704	0.6-	0.2-	2000 03 14	703	0.2+	0.3-	2000 04 07	699	0.1-	0.4+

M.P.C. 39992

2000 APR. 18

1998 09 14	704	(2.2− 0.7+)	2000 03 14	703	0.3+ 0.2−	2000 04 07	704	0.5+ 0.4−
1998 09 14	704	0.6− 1.9−	2000 03 14	703	1.0− 0.0	2000 04 07	699	0.3− 0.7+
1998 09 18	704	0.2− 0.5−	2000 04 04	699	0.3− 0.6+	2000 04 07	704	0.2− 0.1+
1998 09 18	704	0.8− 0.7−	2000 04 04	699	0.7− 0.1+			
1998 09 18	704	1.2− 0.3+	2000 04 04	699	0.2+ 0.1−			

1998 QM₉₈

Id. L. H. Wassermann (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		210.44562		(2000.0)		P		Q	
<i>n</i>		0.36910916		ω	170.21239	+0.99577391		+0.08509619	
<i>a</i>		1.9247138		Ω	185.28668	−0.08602336		+0.99594574	
<i>e</i>		0.0828541		<i>i</i>	22.01568	+0.03216063		+0.02916715	
<i>P</i>		2.67		<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 28	704	1.0+ 0.0	1998 09 18	699	0.1− 1.2+	2000 04 02	699	0.1− 0.1−
1997 04 28	704	0.0 0.1+	1998 09 18	699	0.5− 1.5+	2000 04 02	699	0.8− 0.7+
1997 04 28	704	1.2− 0.5+	1998 09 20	809	(2.1+ 0.4+)	2000 04 02	699	0.8− 1.4+
1997 04 28	704	0.1+ 0.3+	1998 09 20	809	1.8+ 0.1−	2000 04 04	704	1.1+ 0.7−
1998 08 28	704	0.2− 0.1−	1998 09 20	809	1.0+ 0.6+	2000 04 04	704	0.4− 1.3−
1998 08 28	704	(1.3+ 3.5−)	1998 09 21	809	1.1+ 0.5+	2000 04 04	704	0.5+ 0.2−
1998 08 28	704	0.9− 0.4−	1998 09 21	809	0.5+ 0.9+	2000 04 04	704	1.2+ 0.2−
1998 08 28	704	(1.2+ 2.4−)	1998 09 21	809	0.4− 0.6+	2000 04 04	704	0.7+ 1.0+
1998 08 31	704	0.1− 1.4−	1998 10 16	704	0.1− 0.1+	2000 04 14	704	0.1+ 0.3−
1998 08 31	704	(2.0+ 2.4−)	1998 10 16	704	0.5− 0.5−	2000 04 14	704	0.2− 0.0
1998 08 31	704	1.0+ 0.7−	1998 10 16	704	0.6− 0.2−	2000 04 14	704	0.2+ 0.1−
1998 08 31	704	0.6− 0.9−	1998 10 16	704	0.7− 0.6−	2000 04 14	704	0.5− 0.0
1998 08 31	704	0.7− 0.0	1998 10 16	704	0.2− 0.6−	2000 04 14	704	0.6− 0.2+
1998 09 18	699	0.1+ 1.1+	2000 04 02	699	0.4− 0.4+			

1998 QY₁₀₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		77.13216		(2000.0)		P		Q	
<i>n</i>		0.26420395		ω	30.72858	+0.38170803		−0.92165366	
<i>a</i>		2.4053402		Ω	36.96012	+0.82272083		+0.30444832	
<i>e</i>		0.0885469		<i>i</i>	6.65373	+0.42122371		+0.24055300	
<i>P</i>		3.73		<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 26	809	0.9+ 0.6−	1998 09 26	704	0.5+ 0.5−	2000 02 03	704	0.1− 0.1+
1998 08 26	809	0.8+ 0.1+	1998 09 26	704	0.1− 0.6+	2000 02 03	704	0.0 0.0
1998 08 26	809	0.8+ 0.1−	1998 09 26	704	0.9− 0.9−	2000 02 03	704	0.2+ 0.0
1998 08 27	809	(2.4+ 3.1+)	1998 09 26	704	1.0− 0.3+	2000 02 03	704	1.2− 0.1+
1998 08 27	809	(2.8+ 2.7+)	1998 09 27	704	0.1+ 0.7+	2000 02 03	704	0.5− 0.1+
1998 08 27	809	(2.9+ 3.4+)	1998 09 27	704	1.3+ 0.2+	2000 03 04	704	0.2− 0.1+
1998 09 14	704	0.6− 0.9−	1998 09 27	704	0.4+ 0.3−	2000 03 04	704	0.4− 0.4−
1998 09 14	704	0.3+ 0.1+	1998 09 27	704	(0.5− 2.2+)	2000 03 04	704	0.1+ 0.1−
1998 09 14	704	1.2+ 1.0+	1998 09 27	704	0.5− 1.0+	2000 03 04	704	0.6− 0.4+
1998 09 17	699	0.2− 0.7+	1998 09 29	704	0.4− 0.9−	2000 03 04	704	0.4+ 0.8+
1998 09 17	699	0.4+ 0.8+	1998 09 29	704	1.5− 1.5+	2000 03 11	699	0.2− 0.0
1998 09 17	699	0.3− 0.8−	1998 09 29	704	1.9+ 0.8−	2000 03 11	699	0.1− 0.0
1998 09 18	704	0.5+ 1.7−	1998 09 29	704	0.4+ 1.3+	2000 03 11	699	0.6+ 1.2−
1998 09 18	704	1.2− 1.3+	1998 09 29	704	0.6− 0.7−	2000 03 11	699	0.2+ 0.1+
1998 09 18	704	1.2+ 0.1−	1998 09 29	704	0.5− 0.9−	2000 04 03	699	0.5+ 0.3+
1998 09 18	704	0.1+ 1.5−	1998 09 29	704	1.4+ 0.1−	2000 04 03	699	0.7+ 0.7−
1998 09 18	704	1.5− 0.8−	1998 09 29	704	0.1+ 0.3+	2000 04 03	699	0.1+ 0.7−
1998 09 26	704	0.7− 0.9+	1998 09 29	704	1.6− 0.0	2000 04 03	699	0.3+ 0.5+

1998 RO₃ = 2000 GT₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		205.12257		(2000.0)		P		Q	
<i>n</i>		0.37102696		ω	347.17765	+0.92798707		+0.36892843	
<i>a</i>		1.9180757		Ω	350.65256	−0.30711949		+0.67788703	
<i>e</i>		0.0609063		<i>i</i>	18.77169	−0.21099197		+0.63589385	
<i>P</i>		2.66		<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 23	704	0.9+ 0.5−	1998 09 18	699	0.6+ 1.3+	2000 03 14	704	0.5− 0.8+
1998 08 23	704	0.5+ 1.4+	1998 09 18	704	0.0 0.1−	2000 03 14	704	0.5− 0.3−
1998 08 23	704	0.9− 0.3−	1998 09 18	699	0.7+ 0.3+	2000 03 14	704	0.2+ 0.6−
1998 08 23	704	0.2− 0.9−	1998 09 25	704	0.1+ 0.4−	2000 03 14	704	0.5− 0.2−
1998 09 13	699	0.1− 0.5−	1998 09 25	704	0.4− 1.3−	2000 04 07	704	0.5− 0.3−
1998 09 13	699	1.0+ 0.1−	1998 09 25	704	0.9− 0.5−	2000 04 07	704	0.1+ 0.1−
1998 09 13	699	(2.1+ 0.2−)	1998 09 25	704	0.3− 0.8−	2000 04 07	704	0.0 0.0
1998 09 14	704	1.1+ 0.3−	1998 09 25	704	1.4− 0.4−	2000 04 07	704	0.5+ 0.3+
1998 09 14	704	0.6+ 1.0+	1998 09 27	704	0.4− 0.4−	2000 04 07	704	0.4+ 0.0
1998 09 14	704	0.4+ 0.5+	1998 09 27	704	0.8− 1.1+	2000 04 10	704	0.1− 0.2−
1998 09 14	704	0.1+ 1.4+	1998 09 27	704	1.0− 0.6+	2000 04 10	704	0.3− 0.4+
1998 09 18	704	0.8− 0.6−	1998 09 27	704	0.9− 1.0+	2000 04 10	704	0.2+ 0.1−
1998 09 18	704	1.3+ 0.0	1998 09 27	704	1.0− 0.5−	2000 04 10	704	0.5+ 0.1+
1998 09 18	704	1.0− 0.2+	1998 10 14	699	1.0+ 0.3−	2000 04 10	704	0.1+ 0.0
1998 09 18	699	1.0+ 0.0	1998 10 14	699	1.6+ 0.2+			
1998 09 18	704	1.5− 1.1−	1998 10 14	699	0.3+ 0.3−			

1998 RG₄ = 2000 FE₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		32.85589		(2000.0)		P		Q	
<i>n</i>		0.27620229		ω	313.39759	−0.66893124		−0.74324126	
<i>a</i>		2.3351666		Ω	178.45319	+0.74331518		−0.66877434	
<i>e</i>		0.2192751		<i>i</i>	24.30364	−0.00367973		+0.01825701	
<i>P</i>		3.57		<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.2− 0.1−	1998 09 27	704	0.1+ 0.8+	2000 03 29	704	0.1+ 0.3+
1998 09 14	704	0.2+ 0.7−	1998 09 27	704	0.8+ 1.0−	2000 03 29	704	0.2− 0.4+
1998 09 14	704	1.4− 0.2+	1998 09 27	704	0.4− 0.2+	2000 03 29	704	0.1+ 0.5+
1998 09 16	699	0.1− 0.5+	1998 09 27	704	0.4− 0.8−	2000 04 05	704	0.3+ 0.3+
1998 09 16	699	0.1− 0.6+	1998 09 27	704	0.7− 0.5−	2000 04 05	704	0.1− 0.2+
1998 09 16	699	1.0+ 1.0+	2000 03 01	703	0.1− 0.2+	2000 04 05	704	0.3− 0.4+
1998 09 18	704	0.9+ 1.4−	2000 03 01	703	0.3+ 0.3−	2000 04 05	704	0.3− 0.2+
1998 09 18	704	1.1− 1.2+	2000 03 01	703	0.8− 0.9+	2000 04 05	704	0.0 0.1+
1998 09 18	704	0.8+ 0.6−	2000 03 01	703	1.0− 1.0+	2000 04 08	704	0.3+ 0.1+
1998 09 18	704	0.1− 0.8+	2000 03 08	704	0.2− 0.4−	2000 04 08	704	0.4+ 0.7−
1998 09 18	704	0.4+ 0.2+	2000 03 08	704	0.1+ 0.2+	2000 04 08	704	0.1− 0.2−
1998 09 26	704	0.6− 1.1+	2000 03 08	704	0.3+ 0.4+	2000 04 08	704	0.4+ 0.8−
1998 09 26	704	1.1− 0.6−	2000 03 08	704	0.2− 1.9−	2000 04 08	704	0.6+ 0.7−
1998 09 26	704	0.5+ 0.3−	2000 03 08	704	1.0− 0.9+	2000 04 13	704	0.1+ 0.4−
1998 09 26	704	1.3+ 1.1+	2000 03 29	704	0.3+ 0.2+	2000 04 13	704	0.9+ 0.1+
1998 09 26	704	0.1+ 0.5−	2000 03 29	704	0.2− 0.0	2000 04 13	704	(2.5+ 1.9+)

1998 RR₄ = 2000 FY₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		94.76599		(2000.0)		P		Q	
<i>n</i>		0.21942113		ω	229.33598	+0.83978066		−0.53542177	
<i>a</i>		2.7223905		Ω	162.43221	+0.54281310		+0.83137769	
<i>e</i>		0.2575811		<i>i</i>	17.33928	−0.01106252		+0.14877726	
<i>P</i>		4.49		<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1− 0.2−	1998 09 18	704	1.4+ 1.3+	1998 09 27	699	1.0− 1.2+
1998 09 14	704	1.9+ 0.3−	1998 09 18	704	0.3+ 0.1−	1998 09 27	699	0.6− 1.2+
1998 09 14	704	1.0− 0.3−	1998 09 18	704	1.3+ 0.3−	2000 03 29	691	0.2+ 0.1−
1998 09 18	704	0.2+ 1.0−	1998 09 18	704	0.2+ 0.3+	2000 03 29	691	0.4+ 0.2+

2000 APR. 18

M.P.C. 39993

1998 09 18	704	1.4−	0.6+	1998 09 26	704	0.5+	0.4−	2000 03 29	691	0.4+	0.6−
1998 09 18	704	1.1−	0.6+	1998 09 26	704	0.2+	0.0	2000 03 30	691	0.0	0.3+
1998 09 18	704	1.4−	0.5+	1998 09 26	704	1.2+	0.8−	2000 03 30	691	0.5−	0.3+
1998 09 18	704	0.7+	0.2−	1998 09 26	704	0.3−	1.7−	2000 03 30	691	0.6−	0.2−
1998 09 18	704	1.5−	0.1−	1998 09 26	704	0.7+	0.2−				

1998 RO₆ = 2000 CG₆₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
(2000.0)				(2000.0)			
<i>M</i>	80.47282			<i>P</i>	<i>Q</i>		
<i>n</i>	0.26172879	<i>ω</i>	193.97989	+0.48902810	−0.87040541		
<i>a</i>	2.4204812	<i>Ω</i>	226.77878	+0.80761568	+0.47649215		
<i>e</i>	0.1540005	<i>i</i>	4.48414	+0.32955792	+0.12389374		
<i>P</i>	3.77	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	0.2+	0.0	1998 09 18	699	0.4+	0.2+	2000 02 08	704	0.5−	0.2−
1998 08 17	704	0.3−	0.1+	1998 09 18	704	(1.8−	2.1−)	2000 02 08	704	0.8−	0.5+
1998 08 17	704	1.1+	0.6−	1998 09 18	699	0.7−	0.4+	2000 03 08	704	1.0+	0.1+
1998 08 17	704	1.9−	0.9−	1998 09 18	704	1.2−	0.5−	2000 03 08	704	0.8+	0.8+
1998 08 17	704	0.6−	1.2+	1998 09 18	704	0.8−	0.1+	2000 03 08	704	1.0+	0.5+
1998 08 23	704	0.6+	0.3+	1998 09 18	704	0.0	0.1+	2000 03 08	704	0.3+	0.8+
1998 08 23	704	0.9+	0.9−	1998 09 18	704	0.1−	0.7+	2000 03 08	704	1.5+	0.6+
1998 08 23	704	(1.1+	2.1−)	2000 02 02	704	0.6+	0.6+	2000 03 11	699	0.0	0.4−
1998 08 23	704	0.9+	1.4+	2000 02 02	704	0.4+	0.9+	2000 03 11	699	0.7−	0.0
1998 08 23	704	(5.0−	6.6+)	2000 02 02	704	1.1+	0.4+	2000 03 11	699	0.6−	0.4−
1998 09 14	704	0.7+	0.2+	2000 02 02	704	0.8+	1.9+	2000 03 11	699	0.3−	0.0
1998 09 14	704	0.7+	0.4−	2000 02 02	704	0.2+	1.1+	2000 03 27	699	0.0	0.1−
1998 09 14	704	0.6+	0.0	2000 02 07	704	0.8−	1.2−	2000 03 27	699	0.4−	0.1+
1998 09 14	704	1.3+	1.4−	2000 02 07	704	0.4−	1.3−	2000 03 27	699	0.4−	0.1−
1998 09 14	704	0.2+	1.7−	2000 02 07	704	1.0−	1.3−	2000 03 27	699	0.2+	0.5−
1998 09 15	699	0.6−	0.5+	2000 02 07	704	1.5−	1.9−	2000 04 04	699	0.2−	0.3+
1998 09 15	699	0.1−	0.3+	2000 02 08	704	0.2−	0.0	2000 04 04	699	0.1−	0.2+
1998 09 15	699	0.3−	0.2+	2000 02 08	704	0.5−	0.1+	2000 04 04	699	0.4+	0.4−
1998 09 18	699	1.3−	0.8+	2000 02 08	704	0.3+	0.9−	2000 04 04	699	0.3−	0.1+

1998 RG₃₇ = 1987 US₈ = 2000 ET₁₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
(2000.0)				(2000.0)			
<i>M</i>	91.51357			<i>P</i>	<i>Q</i>		
<i>n</i>	0.26174841	<i>ω</i>	185.03532	+0.49806119	−0.86436399		
<i>a</i>	2.4203603	<i>Ω</i>	235.10990	+0.79850994	+0.48835666		
<i>e</i>	0.1932489	<i>i</i>	4.85026	+0.33810787	+0.11992775		
<i>P</i>	3.77	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1987 10 23	095	0.1−	0.7+	1998 09 25	699	0.2+	1.8+	2000 03 13	704	0.1+	0.5+
1998 08 17	704	1.2+	0.7+	1998 09 25	699	0.5+	1.8+	2000 03 13	704	0.0	0.9+
1998 08 17	704	1.3+	0.1−	1998 09 27	699	0.8+	1.2+	2000 04 02	699	0.1−	0.4−
1998 08 17	704	0.6−	0.2+	1998 09 27	699	0.6+	0.6+	2000 04 02	699	0.3+	0.3+
1998 08 17	704	1.6+	1.0−	1998 09 27	699	1.0+	0.7+	2000 04 02	699	0.1+	0.7+
1998 08 17	704	0.7−	0.8−	1998 10 11	699	0.7−	0.1+	2000 04 02	699	0.7+	0.0
1998 08 18	566	0.6−	0.1−	1998 10 11	699	0.9−	0.8+	2000 04 04	704	0.0	0.3+
1998 08 18	566	0.0	0.5+	1998 10 11	699	0.1−	0.1−	2000 04 04	704	0.7−	0.3+
1998 08 18	566	0.1−	0.5+	1998 11 10	699	1.6−	0.7−	2000 04 04	704	1.5+	0.9+
1998 08 23	704	0.9+	0.1−	1998 11 10	699	0.6−	0.2−	2000 04 07	704	0.1+	0.4+
1998 08 23	704	1.4−	0.7+	1998 11 10	699	1.2−	0.2−	2000 04 07	704	0.3+	0.1+
1998 08 23	704	0.7−	0.3−	1998 12 09	704	1.4−	0.1+	2000 04 07	704	0.2−	0.3−
1998 08 23	704	1.0+	1.4−	1998 12 09	704	0.9+	0.6−	2000 04 07	704	0.8+	0.4+
1998 08 30	699	0.1+	0.5+	1998 12 09	704	0.8−	0.9−	2000 04 07	704	0.6+	1.1+
1998 08 30	699	0.0	0.5+	2000 03 01	703	0.2−	0.2−	2000 04 08	704	0.4+	0.6−
1998 08 30	699	0.5−	0.8+	2000 03 01	703	0.1+	0.5+	2000 04 08	704	0.3−	0.0
1998 09 14	704	1.2−	0.8+	2000 03 01	703	0.6−	0.1−	2000 04 08	704	0.4−	0.3+
1998 09 14	704	0.7−	0.3−	2000 03 01	703	0.1+	0.1+	2000 04 08	704	0.5+	0.3+
1998 09 14	704	0.5+	0.7+	2000 03 09	704	0.1−	0.5+	2000 04 08	704	0.7−	0.5+
1998 09 14	704	0.1−	0.0	2000 03 09	704	1.8+	0.1−	2000 04 08	704	0.5+	0.5+
1998 09 18	704	0.2−	0.3−	2000 03 09	704	0.2−	0.1−	2000 04 08	704	0.5−	0.1−

1998 09 18	704	0.3−	0.4−	2000 03 09	704	0.7+	1.4+	2000 04 08	704	0.1−	1.0+
1998 09 18	704	0.9−	0.1+	2000 03 09	704	1.0−	0.4−	2000 04 08	704	0.2+	0.1+
1998 09 18	704	0.1−	0.3+	2000 03 13	704	0.0	0.6+	2000 04 08	704	1.0−	0.2+
1998 09 18	704	0.2−	0.1+	2000 03 13	704	1.0+	0.6+				
1998 09 25	699	0.5+	1.9+	2000 03 13	704	0.2+	0.4+				

1998 RP₃₉ = 2000 GR₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
(2000.0)				(2000.0)			
<i>M</i>	119.18310			<i>P</i>	<i>Q</i>		
<i>n</i>	0.30357618	<i>ω</i>	14.42309	+0.74279150	−0.66837876		
<i>a</i>	2.1925908	<i>Ω</i>	27.64236	+0.60561791	+0.64583074		
<i>e</i>	0.1244418	<i>i</i>	4.83728	+0.28546057	+0.36901557		
<i>P</i>	3.25	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 30	699	0.5+	0.2−	1998 09 27	699	0.8−	0.5+	2000 03 26	699	0.6−	0.1−
1998 08 30	699	0.1+	0.9+	1998 09 27	699	0.3+	0.1+	2000 03 26	699	0.4+	0.4−
1998 08 30	699	0.3+	0.6−	1998 09 27	699	0.9−	0.7+	2000 03 26	699	1.0+	0.3+
1998 09 14	704	0.5+	0.2−	2000 02 27	703	0.1+	0.4−	2000 03 26	699	0.6+	0.1−
1998 09 14	704	0.2+	0.5−	2000 02 27	703	0.7−	1.2+	2000 04 05	704	0.6+	0.4+
1998 09 14	704	0.2+	0.2−	2000 02 27	703	1.3−	0.7−	2000 04 05	704	0.3−	0.1+
1998 09 14	704	0.1+	0.1−	2000 02 27	703	0.7+	0.5+	2000 04 05	704	0.2+	0.1+
1998 09 18	704	0.1−	0.3−	2000 03 12	704	0.4+	0.7−	2000 04 08	704	0.0	0.2+
1998 09 18	704	0.3−	0.1−	2000 03 12	704	0.6−	0.1−	2000 04 08	704	0.7−	0.6+
1998 09 18	704	0.6+	0.0	2000 03 12	704	0.3−	0.5−	2000 04 08	704	0.6+	0.2+
1998 09 18	704	(2.3−	1.2+)	2000 03 12	704	0.7+	0.1+	2000 04 08	704	0.3−	0.2−
1998 09 18	704	0.9−	0.2+	2000 03 12	704	0.3−	0.3−				

1998 RW₄₅ = 2000 CA₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler				Doppler			
(2000.0)				(2000.0)			
<i>M</i>	109.02915			<i>P</i>	<i>Q</i>		
<i>n</i>	0.23534590	<i>ω</i>	159.53880	+0.96645170	−0.25590777		
<i>a</i>	2.5981544	<i>Ω</i>	215.31176	+0.23005527	+0.90048942		
<i>e</i>	0.1229157	<i>i</i>	2.17747	+0.11421771	+0.35161060		
<i>P</i>	4.19	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	1.0−	0.4−	1998 09 26	704	0.8+	1.0+	2000 02 02	704	0.6+	0.3+
1998 09 14	704	0.6−	0.5+	1998 09 26	704	0.3−	0.6−	2000 02 02	704	0.1−	0.3+
1998 09 14	704	1.3+	0.5−	1998 09 26	704	0.3+	0.8−	2000 02 02	704	0.8+	1.3−
1998 09 14	704	0.9+	1.8−	1998 09 26	704	1.3−	0.3−	2000 02 02	704	0.5+	0.7+
1998 09 18	704	0.4+	0.5+	1998 09 27	704	0.4−	0.1+	2000 02 02	704	0.2−	0.6+
1998 09 18	704	1.1+	1.3+	1998 09 27	704	(1.3−	2.4+)	2000 02 04	704	0.3−	0.3−
1998 09 18	704	0.3−	0.4−	1998 09 27	704	(2.4−	0.0)	2000 02 04	704	0.8−	0.7−
1998 09 18	704	1.4−	0.5+	1998 09 27	704	1.2+	0.4−	2000 02 04	704	0.6−	0.3+
1998 09 18	704	0.8−	0.7+	1998 09 27	704	0.0	0.4+				

1998 RU₄₆ = 2000 AA₂₃₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M.P.C. 39994

2000 APR. 18

1998 09 18 704 1.2− 1.1− 1998 09 27 704 0.3− 0.8− 2000 01 08 691 0.1− 0.1−
 1998 09 26 704 0.4− 0.4+ 2000 01 04 704 0.1− 0.5− 2000 01 08 691 1.3+ 0.9−

1998 RN₄₈ = 2000 CD₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	118.90427		(2000.0)	P	Q
<i>n</i>	0.24207813	ω	97.06060	+0.99352952	−0.10923733
<i>a</i>	2.5497583	Ω	269.21418	+0.08801133	+0.91350488
<i>e</i>	0.0431281	<i>i</i>	1.78152	+0.07178515	+0.39188779
<i>P</i>	4.07	<i>H</i>	15.9	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1998 09 14	704	0.9+	1.6−	1998 09 26	704	0.2+	0.6−	2000 02 02	704	0.5−	0.5−
1998 09 14	704	1.2−	0.9+	1998 09 26	704	0.4−	0.1+	2000 02 02	704	0.3−	0.1−
1998 09 14	704	1.0−	1.0−	1998 09 26	704	1.0+	0.5−	2000 02 02	704	0.6−	0.4−
1998 09 14	704	1.4−	0.8+	1998 09 26	704	1.5−	1.4−	2000 02 03	704	0.2−	0.3+
1998 09 14	704	0.5−	0.3−	1998 09 26	704	0.1+	1.3+	2000 02 03	704	0.6+	0.3+
1998 09 18	704	0.6+	1.2−	1998 09 27	704	0.3+	1.6−	2000 02 03	704	0.4+	0.2−
1998 09 18	704	1.8+	1.3+	1998 09 27	704	(2.7−	0.2+)	2000 02 03	704	0.4+	0.3+
1998 09 18	704	(1.0−	2.9−)	1998 09 27	704	1.0−	1.1+	2000 02 03	704	0.3+	0.7+
1998 09 18	704	0.5+	1.4+	1998 09 27	704	(2.4−	0.7+)				
1998 09 18	704	1.6+	1.4+	2000 02 02	704	0.0	0.3−				

1998 RV₄₉ = 2000 AR₂₃₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	203.98026		(2000.0)	P	Q
<i>n</i>	0.26844077	ω	148.87648	+0.22801750	+0.97270385
<i>a</i>	2.3799640	Ω	134.26447	−0.90522383	+0.22807573
<i>e</i>	0.0938050	<i>i</i>	3.44823	−0.35857752	+0.04276315
<i>P</i>	3.67	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	0.5+	0.5−	1998 09 18	704	(2.1−	1.4+)	2000 01 05	704	0.1+	0.3+
1998 09 14	704	0.2−	0.3+	1998 09 18	704	(0.8−	2.4+)	2000 01 05	704	0.4+	0.0
1998 09 14	704	1.1+	1.1+	1998 09 26	704	0.0	0.8−	2000 01 05	704	0.2−	0.3+
1998 09 14	704	0.6+	0.6−	1998 09 26	704	0.5+	0.3+	2000 01 07	691	0.0	0.1−
1998 09 14	704	0.4+	1.1−	1998 09 26	704	(0.2+	2.1−)	2000 01 07	691	0.1−	0.4−
1998 09 17	699	1.2−	0.2+	1998 09 26	704	0.2+	0.0	2000 01 07	691	0.2−	0.2−
1998 09 17	699	0.4−	0.5+	1998 09 27	704	0.1+	0.8−	2000 02 03	704	0.9−	0.8+
1998 09 17	699	0.6−	1.0+	1998 09 27	704	0.4+	0.6+	2000 02 03	704	0.3+	0.4−
1998 09 18	704	(1.9−	2.2+)	1998 09 27	704	(0.4+	2.2+)	2000 02 03	704	0.3+	0.6+
1998 09 18	704	1.5−	0.5−	1998 09 27	704	0.1−	0.7+	2000 02 03	704	0.4−	0.3−
1998 09 18	704	0.2+	0.1+	1998 09 27	704	0.0	0.6−	2000 02 03	704	0.7+	0.5−

1998 RZ₄₉ = 2000 BE₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	56.88033		(2000.0)	P	Q
<i>n</i>	0.18200727	ω	42.23948	+0.66089508	−0.75002407
<i>a</i>	3.0837339	Ω	6.54761	+0.61269369	+0.51914192
<i>e</i>	0.1686888	<i>i</i>	13.23542	+0.43338683	+0.40982381
<i>P</i>	5.42	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 27	809	(2.2−	1.2+)	1998 09 27	704	0.1−	0.1−	2000 01 27	704	0.5+	0.2−
1998 08 27	809	1.7−	1.1+	1998 09 27	704	0.3−	0.9+	2000 01 28	704	0.3−	0.4−
1998 08 27	809	1.1−	1.2+	1998 09 27	704	0.7+	0.6+	2000 01 28	704	0.4−	0.2−
1998 09 14	704	0.1−	0.3−	1998 10 10	699	0.5+	0.1+	2000 01 28	704	1.2−	0.1−
1998 09 14	704	0.1+	0.4+	1998 10 10	699	0.8+	0.2+	2000 01 29	704	0.0	0.4−
1998 09 14	704	0.5+	0.2−	1998 10 10	699	0.8+	1.2+	2000 01 29	704	0.5+	0.1+
1998 09 14	704	0.1+	0.3−	1998 11 10	699	0.7−	1.2−	2000 01 29	704	0.1+	1.0−
1998 09 14	704	0.6+	0.0	1998 11 10	699	0.3−	0.3+	2000 01 29	704	0.3+	0.2+
1998 09 18	704	0.3+	0.0	1998 11 10	699	0.9+	0.4−	2000 01 29	704	1.2−	0.6+
1998 09 18	704	0.4−	0.7−	1999 12 12	704	0.4−	0.5−	2000 02 26	704	1.4+	1.3+

1998 09 18	704	0.3+	0.6−	1999 12 12	704	0.1+	0.7−	2000 02 26	704	1.0+	0.4+
1998 09 18	704	0.1+	0.1+	1999 12 12	704	0.5+	0.3−	2000 02 26	704	0.1−	0.0
1998 09 18	704	0.1+	0.8−	1999 12 12	704	0.2+	0.6−	2000 02 26	704	0.0	0.4−
1998 09 26	704	0.1+	0.8−	1999 12 12	704	0.4+	0.8−	2000 02 26	704	0.5−	1.0−
1998 09 26	704	0.2+	0.5−	2000 01 11	699	0.3+	0.4+	2000 03 10	703	1.7−	1.3+
1998 09 26	704	0.9−	0.0	2000 01 11	699	0.1−	0.3+	2000 03 10	703	0.8−	1.4+
1998 09 26	704	1.0−	0.5+	2000 01 11	699	0.8+	0.3+	2000 03 10	703	0.3+	0.3+
1998 09 26	704	0.1+	0.6+	2000 01 27	704	0.1−	0.2+	2000 03 10	703	0.6−	0.3−
1998 09 27	704	0.1−	0.6−	2000 01 27	704	0.4+	0.7+				
1998 09 27	704	0.4−	0.1−	2000 01 27	704	0.2+	0.5+				

1998 RN₅₂ = 2000 GR₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.84924		(2000.0)	P	Q
<i>n</i>	0.30492770	ω	45.55882	+0.30667493	−0.95027404
<i>a</i>	2.1861072	Ω	26.72269	+0.83552041	+0.24153031
<i>e</i>	0.1588255	<i>i</i>	6.91346	+0.45591241	+0.19657662
<i>P</i>	3.23	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1995 11 18	691	0.1−	0.2+	1998 09 26	704	0.0	1.1−	2000 04 05	704	1.0+	0.1+
1995 11 18	691	0.2−	0.2+	1998 09 26	704	0.3+	0.6−	2000 04 05	704	0.1+	1.1+
1995 11 18	691	0.0	0.3+	1998 09 26	704	0.7+	0.8−	2000 04 06	704	0.4+	0.1+
1998 09 14	704	0.5−	1.0+	1998 09 26	704	0.4−	0.1+	2000 04 06	704	0.4+	0.4−
1998 09 14	704	1.2+	1.0+	1998 09 27	704	0.2+	0.7−	2000 04 06	704	0.1+	0.3+
1998 09 14	704	0.4−	1.1+	1998 09 27	704	0.3+	0.4−	2000 04 06	704	0.4+	1.4−
1998 09 18	704	0.4−	0.5+	1998 09 27	704	0.4+	0.7−	2000 04 06	704	0.1−	0.9−
1998 09 18	704	0.6−	1.5−	1998 09 27	704	0.8+	1.1−	2000 04 07	704	(1.8−	2.1−)
1998 09 18	704	0.8−	0.5+	1998 09 27	704	0.6−	1.9−	2000 04 07	704	0.7−	0.4−
1998 09 18	704	0.1+	0.9−	1998 10 12	699	0.0	0.9+	2000 04 07	704	0.0	1.3+
1998 09 18	704	1.7−	1.2+	1998 10 12	699	0.2−	0.4+	2000 04 07	704	0.3+	1.1+
1998 09 24	699	0.2+	0.4+	1998 10 12	699	0.8+	1.6+	2000 04 12	691	0.2−	0.1+
1998 09 24	699	0.5+	1.8+	2000 04 05	704	0.5−	0.0	2000 04 12	691	0.1−	0.1−
1998 09 24	699	0.3−	0.0	2000 04 05	704	0.4−	0.4+	2000 04 12	691	0.0	0.1+
1998 09 26	704	(2.7−	0.9−)	2000 04 05	704	0.2+	0.1+				

1998 RK₅₃ = 2000 EH₁₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	125.82635		(2000.0)	P	Q
<i>n</i>	0.28575645	ω	42.47231	+0.86379552	−0.50245773
<i>a</i>	2.2828219	Ω	347.53161	+0.40324442	+0.73384928
<i>e</i>	0.1339965	<i>i</i>	9.95664	+0.30207819	+0.45716678
<i>P</i>	3.45	<i>H</i>	16.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.3+	0.5−	1998 09 18	704	1.1−	1.6+	2000 03 03	704	0.6−	0.2−
1998 09 14	704	0.4−	0.0	1998 09 18	704	0.3+	1.2+	2000 03 03	704	0.2+	0.4+
1998 09 14	704	0.5+	0.2−	1998 09 19	703	0.2+	0.8+	2000 03 03	704	1.3−	1.6+
1998 09 14	704	0.5+	0.7+	1998 09 19	703	0.3−	0.4+	2000 03 03	704	0.9−	1.2+
1998 09 14	704	0.5+	0.1+	1998 09 19	703	1.3−	0.2+	2000 03 11	704	1.7+	1.7−
1998 09 14	704	0.2−	1.0+	1998 09 19	703	0.7−	0.0	2000 03 11	704	1.5+	0.6−
1998 09 14	704	0.4+	0.8−	1998 09 26	704	1.3+	0.2−	2000 03 11	704	1.0+	0.2−
1998 09 14	704	0.4+	1.0+	1998 09 26	704	0.6+	0.4−	2000 03 11	704	1.0+	0.9−
1998 09 16	699	0.7−	0.1−	1998 09 26	704	0.3−	0.8−	2000 03 11	704	1.2+	1.2−
1998 09 16	699	0.5−	1.2+	1998 09 26	704	0.3−	1.1−	2000 04 05	704	0.4−	1.2+
1998 09 16	699	1.5−	1.2−	1998 09 27	699	1.4+	0.1−	2000 04 05	704	0.8−	0.5−
1998 09 18	704	1.0−	0.4−	1998 09 27	699	0.4+	0.5−	2000 04 05	704	0.3−	1.1+
1998 09 18	704	0.5+	1.1−	1998 09 27	699	0.8+	1.2+	2000 04 05	704	0.7−	0.3+
1998 09 18	704	0.5−	0.8−	2000 03 03	704	0.8−	1.1+				

2000 APR. 18

M.P.C. 39995

1998 RO₅₃ = 2000 CV₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	174.59025		(2000.0)	P		Q	
<i>n</i>	0.28130165	ω	7.29445	+0.79658846	+0.60265904		
<i>a</i>	2.3068598	Ω	315.53045	-0.55800098	+0.70284329		
<i>e</i>	0.1518242	<i>i</i>	3.88163	-0.23255481	+0.37790660		
<i>P</i>	3.50	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1-	0.1-	1998 09 27	699	0.2-	0.5+	2000 02 03	704	0.2+	0.3+
1998 09 14	704	0.0	0.3-	1998 09 27	704	0.2+	1.4+	2000 02 03	704	0.4-	0.8+
1998 09 14	704	0.7+	0.4-	1998 09 27	699	0.2+	0.1+	2000 02 03	704	1.0+	0.3-
1998 09 14	704	1.7+	0.1+	1998 09 27	704	0.8-	1.5+	2000 02 03	704	0.3+	0.9+
1998 09 14	704	(2.6+	0.5-)	1998 09 27	704	0.2-	0.0	2000 02 03	704	0.6+	0.4+
1998 09 18	704	0.5-	0.6-	1998 09 27	704	0.9-	0.8-	2000 02 04	691	0.6-	0.1-
1998 09 18	704	0.8-	0.8+	1998 09 27	704	0.6-	0.2-	2000 02 04	691	0.3-	0.2-
1998 09 18	704	1.1-	0.4+	1998 10 17	327	0.3-	0.2-	2000 02 04	691	0.5-	0.1-
1998 09 18	704	1.0-	0.6-	1998 10 17	327	0.5-	0.1-	2000 02 05	695	0.4+	0.1+
1998 09 18	704	(2.4-	1.6+)	1998 10 17	327	0.2-	0.3+	2000 02 05	695	0.1-	0.1+
1998 09 26	704	0.4-	0.4+	1998 10 18	327	(0.7-	2.1+)	2000 02 08	691	0.1-	0.3-
1998 09 26	704	1.0+	0.4-	1998 10 18	327	(0.7+	2.3+)	2000 02 08	691	0.2-	0.3-
1998 09 26	704	0.5+	0.9-	1998 10 18	327	(1.5+	2.9+)	2000 02 08	691	0.1-	0.1-
1998 09 26	704	0.2+	0.8-	1998 10 20	327	0.5+	0.6+	2000 03 10	691	0.5-	0.3-
1998 09 26	704	1.2+	0.7-	1998 10 20	327	0.2-	0.1+	2000 03 10	691	0.0	0.9-
1998 09 27	699	0.9+	0.7-	1998 10 20	327	0.9+	0.3+	2000 03 10	691	0.0	0.7-

1998 RC₅₅ = 2000 CM₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	86.96427		(2000.0)	P		Q	
<i>n</i>	0.21235803	ω	146.06394	+0.86075247	-0.50161164		
<i>a</i>	2.7824258	Ω	244.27200	+0.44308544	+0.82203746		
<i>e</i>	0.0316586	<i>i</i>	5.51318	+0.25056034	+0.26951840		
<i>P</i>	4.64	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.1+	0.5-	1998 09 27	704	0.8-	0.9+	1999 12 14	704	0.5+	0.0
1998 09 14	704	0.2-	0.8+	1998 09 27	704	1.5-	0.9+	1999 12 14	704	0.6-	0.6-
1998 09 14	704	0.6+	0.1+	1998 09 29	704	0.5-	0.8+	1999 12 14	704	0.0	0.1+
1998 09 14	704	0.7-	0.6-	1998 09 29	704	0.8+	0.8+	1999 12 14	704	0.8-	0.5+
1998 09 14	704	0.0	1.1-	1998 09 29	704	1.0-	1.2-	2000 01 05	704	0.1+	0.8+
1998 09 18	704	0.4-	0.2-	1998 09 29	704	0.3+	1.1-	2000 01 05	704	0.2+	0.1+
1998 09 18	704	1.7+	0.7-	1998 09 29	704	1.1+	1.0+	2000 01 05	704	0.6+	0.5-
1998 09 18	704	0.6-	1.6+	1998 09 29	704	(0.1-	2.1-)	2000 01 05	704	0.4-	0.5-
1998 09 18	704	0.1+	1.3+	1998 09 29	704	0.2+	2.0-	2000 02 02	704	0.7+	0.3-
1998 09 18	704	0.9-	0.8+	1998 09 29	704	0.5-	1.7+	2000 02 02	704	0.4-	0.1+
1998 09 26	704	1.3+	0.2-	1998 09 29	704	0.8+	1.3-	2000 02 02	704	0.2+	0.5+
1998 09 26	704	1.7+	1.5-	1998 09 29	704	0.8+	1.2-	2000 02 02	704	0.1-	0.3+
1998 09 26	704	0.6+	0.0	1998 09 29	704	0.7-	1.3-	2000 02 03	704	0.3-	0.5-
1998 09 26	704	1.2-	1.3+	1998 09 29	704	(2.2-	0.5-)	2000 02 03	704	0.0	0.0
1998 09 27	704	1.0+	0.9+	1998 09 29	704	1.5-	0.2-	2000 02 03	704	0.2+	0.1-
1998 09 27	704	0.8+	0.7-	1998 09 29	704	0.1-	0.4-				
1998 09 27	704	0.0	1.1+	1998 09 29	704	1.9-	0.4+				

1998 RW₅₅

Id. L. H. Wasserman (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	111.58829		(2000.0)	P		Q	
<i>n</i>	0.29543402	ω	95.46024	+0.51612215	-0.85536465		
<i>a</i>	2.2326932	Ω	323.35719	+0.75345534	+0.47804991		
<i>e</i>	0.1553538	<i>i</i>	4.26410	+0.40733645	+0.19954851		
<i>P</i>	3.34	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.0	0.2+	1998 09 26	704	0.2+	0.3-	1998 12 09	704	1.4-	0.7+
1998 09 14	704	0.6-	0.3+	1998 09 26	704	0.1+	0.3+	1998 12 09	704	0.8+	0.5+
1998 09 14	704	1.3-	0.1-	1998 09 26	704	0.4+	0.3-	1998 12 09	704	0.7+	1.0-
1998 09 16	699	0.0	0.6+	1998 09 27	704	0.1-	0.2+	1998 12 09	704	(4.3-	0.6-)
1998 09 16	699	0.5-	0.3+	1998 09 27	704	0.9+	1.1-	2000 03 03	688	0.0	0.1+
1998 09 16	699	0.2-	0.6+	1998 09 27	704	0.1-	0.9-	2000 03 03	688	0.1+	0.1+
1998 09 18	704	0.9+	0.3-	1998 10 14	327	0.2-	0.1-	2000 04 07	704	0.1+	0.4-
1998 09 18	704	1.0+	0.7+	1998 10 14	327	0.1-	0.0	2000 04 07	704	0.0	0.3-
1998 09 18	704	0.5+	0.0	1998 10 14	327	0.3+	0.0	2000 04 07	704	0.0	0.6+
1998 09 18	704	0.3-	0.6-	1998 10 17	327	0.1-	0.3+	2000 04 07	704	0.3-	0.2-
1998 09 26	704	0.2-	0.1-	1998 10 17	327	0.4-	0.1-				
1998 09 26	704	0.2-	0.0	1998 10 17	327	0.0	0.1+				

1998 RJ₅₈ = 2000 FZ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	113.04526		(2000.0)	P		Q	
<i>n</i>	0.27788803	ω	244.48405	+0.63072944	-0.77596605		
<i>a</i>	2.3257132	Ω	166.40390	+0.72300623	+0.58409087		
<i>e</i>	0.2422722	<i>i</i>	1.84136	+0.28185522	+0.23814814		
<i>P</i>	3.55	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.9-	0.1+	1998 10 17	699	0.5-	0.7+	2000 04 01	691	0.4-	0.2-
1998 09 14	704	1.2-	1.1+	1998 10 17	699	0.6-	0.0	2000 04 01	691	0.4-	0.0
1998 09 14	704	0.1+	1.1+	1998 10 17	699	1.0-	0.2+	2000 04 01	691	0.5-	0.1-
1998 09 16	699	0.7-	0.4+	1998 10 18	910	0.3+	0.0	2000 04 01	691	0.2-	0.1-
1998 09 16	699	0.2-	0.3+	1998 10 18	910	0.1+	0.3+	2000 04 02	691	0.7+	0.4-
1998 09 16	699	0.7-	0.4+	1998 10 18	910	0.0	0.4+	2000 04 02	691	0.1-	0.0
1998 09 18	704	0.4-	1.1+	1998 10 22	910	0.2+	0.2+	2000 04 02	691	0.5-	0.1-
1998 09 18	704	0.6-	0.1+	1998 10 22	910	0.4+	0.2+	2000 04 03	691	0.1-	0.6-
1998 09 18	704	1.0+	0.7-	1998 10 22	910	0.3+	0.2+	2000 04 03	691	0.1+	0.5-
1998 09 18	704	0.2-	0.5-	1998 11 10	699	0.3-	1.1+	2000 04 03	691	0.0	0.6-
1998 09 18	704	0.7+	0.6+	1998 11 10	699	0.3-	0.3+	2000 04 05	704	0.1-	0.9+
1998 09 26	704	0.1+	0.4-	1998 11 10	699	0.1+	0.5+	2000 04 05	704	1.0+	0.6+
1998 09 26	704	0.2+	1.6-	2000 03 10	704	0.2+	0.8+	2000 04 05	704	0.0	0.7+
1998 09 26	704	0.6+	1.5-	2000 03 10	704	0.0	1.0+	2000 04 06	704	0.7+	0.1+
1998 09 26	704	0.6+	1.5-	2000 03 10	704	0.1+	0.5+	2000 04 06	704	0.4-	0.5+
1998 09 26	704	1.0+	0.9-	2000 03 27	699	0.0	0.3+	2000 04 06	704	0.4-	0.6-
1998 09 27	704	0.1+	0.2+	2000 03 27	699	1.0+	0.2-	2000 04 06	704	0.0	0.8+
1998 09 27	704	0.6-	0.4+	2000 03 27	699	0.4+	0.7+	2000 04 06	704	0.4+	0.9+
1998 09 27	704	0.3-	0.5+	2000 03 27	699	0.7+	1.4+	2000 04 06	704	0.1+	0.4+
1998 09 27	704	0.9+	0.1-	2000 03 30	691	0.0	0.4-	2000 04 06	704	0.5+	0.3+
1998 09 27	704	0.1+	0.2-	2000 03 30	691	0.1-	0.4-	2000 04 06	704	0.0	0.3+
1998 10 14	910	0.1-	0.4+	2000 03 30	691	0.1-	0.5-	2000 04 06	704	0.1-	0.3+
1998 10 14	910	0.1+	0.4+	2000 04 01	691	0.3-	0.4-	2000 04 06	704	0.1+	0.5-
1998 10 14	910	0.1+	0.4+	2000 04 01	691	0.4-	0.3-				

1998 RW₅₈ = 2000 BG₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.49717		(2000.0)	P		Q	
<i>n</i>	0.22284513	ω	203.88021	-0.95968188	+0.27935753		
<i>a</i>	2.6944324	Ω	352.14551	-0.20690425	-0.77705767		
<i>e</i>	0.1022272	<i>i</i>	13.17412	-0.19026644	-0.56403967		
<i>P</i>	4.42	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 28	704	(2.1+	1.3+)	1998 09 26	704	(2.1+	0.9-)	1999 12 13	704	0.1-	0.0
1998 08 28	704	1.3-	1.2+	1998 09 26	704	0.5+	1.2-	1999 12 13	704	0.5-	0.2+
1998 08 28	704	0.3-	1.3+	1998 09 26	704	0.6+	1.1-	1999 12 13	704	0.7+	0.6+
1998 08 28	704	0.4+	1.3+	1998 09 26	704	0.4-	0.1+	1999 12 13	704	1.3-	0.1+
1998 08 28	704	(3.1-	1.2+)	1998 09 26	704	1.3+	0.3-	1999 12 30	704	0.6-	0.2+
1998 09 14	704	1.1-	0.6+	1998 09 26	704	0.8-	0.7+	1999 12 30	704	0.3-	0.1-
1998 09 14	704	(2.1-	1.6-)	1998 09 27	704	0.5+	0.3+	1999 12 30	704	0.2-	0.2-
1998 09 14	704	1.9-	0.4+	1998 09 27	704	0.5+	0.4+	1999 12 30	704	0.2-	0.4-

M.P.C. 39996

2000 APR. 18

1998 09 18	704	0.9+	0.2+	1998 09 27	704	1.0-	1.0+	1999 12 30	704	0.1+	0.4-
1998 09 18	704	0.3+	0.4-	1998 09 27	704	0.7-	0.4-	2000 01 21	704	0.0	1.0+
1998 09 18	704	0.9+	0.4-	1998 09 27	704	0.3-	0.6-	2000 01 21	704	0.2-	0.5+
1998 09 18	704	1.2-	1.7-	1998 09 27	704	0.6+	0.0	2000 01 21	704	1.4+	0.2+
1998 09 18	704	0.7+	0.8-	1998 09 27	704	0.8-	0.2-	2000 01 27	704	0.2+	0.3-
1998 09 25	699	1.4+	1.2+	1998 09 27	704	0.5+	0.6+	2000 01 27	704	0.0	0.2+
1998 09 25	699	0.1-	1.7+	1998 09 27	704	1.0-	1.3-	2000 01 27	704	0.6+	0.4-
1998 09 25	699	0.3+	1.0+	1998 09 27	704	0.8-	1.0-	2000 02 26	704	0.1-	0.6-
1998 09 26	704	0.2+	0.1+	1999 10 14	704	0.5+	0.9+	2000 02 26	704	0.3+	0.3-
1998 09 26	704	0.6-	0.8-	1999 10 14	704	0.2-	0.6-	2000 02 26	704	0.9-	0.6+
1998 09 26	704	1.9+	1.3-	1999 10 14	704	0.1+	1.5-	2000 02 26	704	0.3+	0.3+
1998 09 26	704	0.1+	0.0	1999 10 14	704	1.1+	1.1-	2000 02 26	704	0.5-	1.1+

1998 RB₅₉ = 2000 CE₄₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.70784		(2000.0)	P	Q
<i>n</i>	0.24569918	ω	175.05848	+0.85802851	-0.51274502
<i>a</i>	2.5246446	Ω	215.83835	+0.46946804	+0.80640823
<i>e</i>	0.1251183	<i>i</i>	2.90354	+0.20829507	+0.29461552
<i>P</i>	4.01	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.5+	0.6-	1998 09 18	704	0.8-	1.3+	1998 09 27	704	0.5-	0.5+
1998 09 14	704	0.2-	0.9-	1998 09 26	704	0.1-	0.3-	2000 02 02	704	0.0	0.6+
1998 09 14	704	0.7+	0.8-	1998 09 26	704	0.3+	0.6-	2000 02 02	704	0.2-	0.9+
1998 09 16	699	0.4+	0.1+	1998 09 26	704	0.3-	0.2+	2000 02 02	704	1.0+	0.3-
1998 09 16	699	0.4-	0.3+	1998 09 26	704	0.4-	0.8-	2000 02 02	704	0.0	0.3+
1998 09 16	699	0.4+	0.3+	1998 09 26	704	0.6+	0.4-	2000 02 06	704	0.5-	1.5-
1998 09 18	704	1.2-	0.4-	1998 09 27	704	0.1+	0.3-	2000 02 06	704	0.2-	0.2-
1998 09 18	704	0.8-	0.7+	1998 09 27	704	0.7+	0.0	2000 02 06	704	0.1-	0.1-
1998 09 18	704	0.2+	0.3+	1998 09 27	704	0.3+	0.4+	2000 02 06	704	0.0	0.3+
1998 09 18	704	0.7+	0.6+	1998 09 27	704	0.1-	0.2+				

1998 RO₆₁ = 2000 GM₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	117.28048		(2000.0)	P	Q
<i>n</i>	0.29762693	ω	200.53504	+0.56300923	-0.82577258
<i>a</i>	2.2217127	Ω	215.22443	+0.76612056	+0.53667138
<i>e</i>	0.1732599	<i>i</i>	3.32671	+0.30996757	+0.17344590
<i>P</i>	3.31	<i>H</i>	16.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 14	704	0.4+	0.7+	1998 09 26	704	1.5+	1.5-	2000 04 05	704	0.2-	0.6+
1998 09 14	704	0.5-	0.2-	1998 09 26	704	1.6-	1.0+	2000 04 05	704	0.5+	0.1-
1998 09 14	704	0.5-	0.0	1998 09 27	704	1.9-	1.6+	2000 04 05	704	0.2-	0.4+
1998 09 18	704	0.2-	0.3-	1998 09 27	704	0.3+	1.1-	2000 04 05	704	1.1+	0.1-
1998 09 18	704	1.5+	0.4+	1998 09 27	704	1.4-	1.3+	2000 04 05	704	0.6-	0.3+
1998 09 18	704	0.7+	0.3+	1998 09 27	704	0.2+	0.8+	2000 04 06	704	0.8+	0.2+
1998 09 18	704	(1.8+	2.1-)	1998 09 27	704	0.3-	0.6-	2000 04 06	704	0.0	0.2+
1998 09 26	704	0.8+	0.8+	1998 11 18	691	0.2-	0.6+	2000 04 06	704	0.5-	0.2-
1998 09 26	704	0.1-	1.1-	1998 11 18	691	0.0	0.4+	2000 04 06	704	0.0	0.7+
1998 09 26	704	0.9+	1.6-	1998 11 18	691	0.3-	0.5+	2000 04 06	704	0.2-	0.2+

1998 RF₆₂ = 2000 EN₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.00981		(2000.0)	P	Q
<i>n</i>	0.26543203	ω	86.80704	+0.09746310	-0.99522721
<i>a</i>	2.3979153	Ω	357.58361	+0.86104991	+0.08677649
<i>e</i>	0.0933613	<i>i</i>	6.63722	+0.49909318	+0.04463904
<i>P</i>	3.71	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.2-	0.0	1998 09 27	704	0.2-	0.6-	2000 03 15	049	1.4+	0.9-
1998 09 14	704	0.8-	1.3+	2000 02 04	704	0.1+	0.2+	2000 03 27	049	0.7-	0.4-

1998 09 14	704	0.3-	0.4+	2000 02 04	704	0.1-	0.1+	2000 03 27	049	0.8-	0.6-
1998 09 18	704	0.4-	0.3-	2000 02 04	704	0.2-	0.2-	2000 03 27	049	0.3+	0.8-
1998 09 18	704	0.4+	1.2-	2000 02 04	704	1.2-	1.1+	2000 03 29	049	0.6+	0.4+
1998 09 18	704	0.7-	0.9+	2000 02 04	704	0.5-	1.2+	2000 03 29	049	0.0	0.0
1998 09 18	704	(2.2-	0.1-)	2000 02 11	704	0.7+	0.9-	2000 03 29	049	1.4-	0.1-
1998 09 25	699	0.2-	0.7+	2000 02 11	704	0.5-	0.1+	2000 04 03	704	0.3+	0.7+
1998 09 25	699	0.7-	0.6+	2000 02 11	704	0.2+	0.1-	2000 04 03	704	0.8-	0.7+
1998 09 25	699	1.0-	0.6+	2000 02 11	704	0.9-	1.0+	2000 04 03	704	0.2-	0.2+
1998 09 26	704	1.8+	0.9-	2000 03 09	049	0.8+	1.4-	2000 04 03	704	0.3-	0.8+
1998 09 26	704	0.3+	0.8-	2000 03 09	049	0.9+	0.8-	2000 04 03	704	0.4-	0.6+
1998 09 26	704	0.8+	0.5+	2000 03 09	049	0.9+	0.8-	2000 04 04	699	(0.0	2.5+)
1998 09 26	704	1.2+	0.8-	2000 03 11	704	0.6-	0.2+	2000 04 04	699	0.2-	0.5+
1998 09 26	704	(2.1+	0.7-)	2000 03 11	704	1.1+	1.0+	2000 04 04	699	0.7-	0.5+
1998 09 27	704	0.2+	0.0	2000 03 11	704	0.5-	0.3-	2000 04 04	699	0.8-	1.0+
1998 09 27	704	0.6-	0.3-	2000 03 15	049	1.6+	1.1-				
1998 09 27	704	0.3+	0.3+	2000 03 15	049	1.2+	1.2-				

1998 RP₆₃ = 2000 EN₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	8.64811		(2000.0)	P	Q
<i>n</i>	0.28167589	ω	111.74457	-0.82664151	-0.55798904
<i>a</i>	2.3048160	Ω	34.45908	+0.45689655	-0.74112883
<i>e</i>	0.1249242	<i>i</i>	7.40091	+0.32849560	-0.37333134
<i>P</i>	3.50	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 14	704	0.5-	0.4+	2000 01 10	699	0.2-	1.2+	2000 03 04	704	0.5-	0.5+
1998 09 14	704	0.3-	0.1+	2000 01 10	699	0.3+	0.6-	2000 03 04	704	1.5+	0.0
1998 09 14	704	1.1+	1.9-	2000 01 10	699	0.2+	0.5-	2000 03 08	608	0.3+	0.9-
1998 09 18	704	1.5+	0.4-	2000 02 03	704	0.0	0.1+	2000 03 08	608	0.6+	0.8-
1998 09 18	704	0.3-	1.4+	2000 02 03	704	0.1+	0.2+	2000 03 08	608	0.3+	0.7-
1998 09 18	704	1.6-	0.5+	2000 02 03	704	0.1+	0.0	2000 03 12	704	0.2-	0.1+
1998 09 18	704	(2.6-	0.4-)	2000 02 03	704	0.2-	0.1+	2000 03 12	704	0.5-	0.1+
1998 09 18	704	0.4+	1.6+	2000 02 03	704	0.2-	0.2+	2000 03 12	704	0.7-	0.1-
1998 09 24	699	1.5+	0.3-	2000 02 06	703	0.1+	0.2-	2000 03 12	704	0.6-	0.1-
1998 09 24	699	0.8+	0.8+	2000 02 06	703	0.2+	0.5-	2000 03 12	704	0.1-	0.4-
1998 09 24	699	0.4+	0.4-	2000 02 06	703	0.2-	0.3-	2000 03 28	704	0.8+	0.5+
1998 09 26	704	1.0-	0.2+	2000 02 06	703	0.2+	0.0	2000 03 28	704	0.1-	0.3+
1998 09 26	704	0.6-	0.5-	2000 03 02	703	0.2+	0.4+	2000 03 28	704	0.6-	0.0
1998 09 26	704	1.1-	0.2-	2000 03 02	703	0.3-	0.2+	2000 04 03	699	0.6+	0.6+
1998 09 26	704	(0.1-	2.6+)	2000 03 02	703	0.5-	0.3-	2000 04 03	699	0.3+	0.2+
1998 09 27	704	0.2-	0.7-	2000 03 02	703	0.2-	0.4+	2000 04 03	699	0.2-	0.4+
1998 09 27	704	0.7-	0.4+	2000 03 04	704	0.3-	0.2+	2000 04 03	699	0.5+	0.2+
1998 09 27	704	(0.5+	2.2-)	2000 03 04	704	0.0	0.2+				
1998 09 27	704	(0.7-	2.6-)	2000 03 04	704	0.1-	0.4+				

1998 RQ₆₃ = 2000 CT₉₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.51428		(2000.0)	P	Q
<i>n</i>	0.22806785	ω	238.99161	+0.70795290	-0.70321939
<i>a</i>	2.6531390	Ω	165.33785	+0.70341095	+0.69374565
<i>e</i>	0.1467843	<i>i</i>	14.98813	+0.06336978	+0.15556176
<i>P</i>	4.32	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	1.0-	0.1-	1998 09 26	704	0.1-	0.7+	2000 01 11	704	1.0+	0.2+
1998 09 14	704	0.6+	0.2-	1998 09 26	704	0.2-	0.1+	2000 01 11	704	0.8+	0.1-
1998 09 14	704	0.1-	1.6-	1998 09 26	704	1.3-	0.6-	2000 02 06	704	0.1+	0.1-
1998 09 18	704	0.8+	0.1+	1998 09 26	704	0.3+	0.7+	2000 02 06	704	0.0	0.1+
1998 09 18	704	0.1-	0.7-	1998 09 27	704	0.4-	0.7-	2000 02 06	704	0.4-	0.6+
1998 09 18	704	0.3-	0.8+	1998 09 27	704	0.7+	0.3-	2000 02 06	704	0.4-	0.6+
1998 09 18	704	(3.3+	2.5+)	1998 09 27	704	0.2+	0.1-	2000 02 12	704	0.1+	0.6-
1998 09 24	699	0.5+	0.1+	1998 09 27	704	0.1+	0.4-	2000 02 12	704	1.0-	0.7-
1998 09 24	699	0.2+	0.7+	1998 09 27	704	(0.1+	2.3-)	2000 02 12	704	0.5+	0.1-

2000 APR. 18

M.P.C. 39997

1998 09 24 699 0.0 0.5+ 2000 01 11 704 0.6- 0.3- 2000 02 12 704 0.2- 0.2+
 1998 09 26 704 0.1+ 0.6+ 2000 01 11 704 0.2+ 0.0

1998 RW₆₄ = 2000 EH₄₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	70.57256	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.24555230	ω	84.46231	+0.12460693	-0.99219910		
<i>a</i>	2.5256512	Ω	358.36541	+0.85032778	+0.10873595		
<i>e</i>	0.2043329	<i>i</i>	7.55458	+0.51128835	+0.06097085		
<i>P</i>	4.01	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.5-	0.9+	2000 02 26	691	0.5-	0.3+	2000 03 12	691	0.3+	0.0
1998 09 14	704	0.5-	0.0	2000 02 26	691	0.7-	0.1+	2000 03 12	691	0.1+	0.1-
1998 09 14	704	0.4-	0.6+	2000 03 08	704	0.6-	1.1-	2000 03 12	691	0.2+	0.1-
1998 09 18	704	0.4-	0.5-	2000 03 08	704	1.8+	0.5-	2000 03 26	699	0.7-	0.8+
1998 09 18	704	0.4+	0.2-	2000 03 08	704	0.2-	0.0	2000 03 26	699	0.2-	0.3+
1998 09 18	704	0.0	1.5+	2000 03 08	704	0.5-	0.5-	2000 03 26	699	0.5-	0.2+
1998 09 18	704	0.7+	1.4-	2000 03 10	704	0.1-	0.2+	2000 03 26	699	0.4-	1.0+
1998 09 18	704	1.1+	0.3+	2000 03 10	704	1.2-	0.7+	2000 04 05	704	1.5+	0.2+
1998 09 26	704	0.7+	0.7-	2000 03 10	704	0.4+	0.2+	2000 04 05	704	0.3-	0.5+
1998 09 26	704	0.7-	0.4+	2000 03 10	704	0.7+	0.3+	2000 04 05	704	0.1+	0.1+
1998 09 26	704	0.3-	0.1+	2000 03 11	704	0.6+	0.0	2000 04 05	704	0.2+	0.1-
1998 09 26	704	0.7-	0.3-	2000 03 11	704	0.2+	0.2+	2000 04 05	704	0.4+	0.4-
1998 09 27	704	1.3-	0.4-	2000 03 11	691	0.1-	0.1+	2000 04 06	704	0.1-	0.1+
1998 09 27	704	0.2+	0.9+	2000 03 11	704	0.8+	0.7+	2000 04 06	704	0.1-	0.2+
1998 09 27	704	0.8+	1.1+	2000 03 11	704	0.4+	0.1+	2000 04 06	704	0.1+	0.1-
1998 09 27	704	0.7-	0.5+	2000 03 11	691	0.4+	0.2-	2000 04 06	704	0.5-	0.5-
1998 09 27	704	0.1-	0.0	2000 03 11	704	0.3+	0.2+				
2000 02 26	691	0.4-	0.2+	2000 03 11	691	0.2+	0.1-				

1998 RG₆₆ = 2000 CM₇₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	55.28806	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.24413040	ω	261.87489	-0.04268836	-0.99830833		
<i>a</i>	2.5354486	Ω	190.81024	+0.97936917	-0.03400207		
<i>e</i>	0.1283532	<i>i</i>	12.14950	+0.19751893	-0.04716290		
<i>P</i>	4.04	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	0.5-	0.4+	1998 09 27	704	0.5-	0.2+	2000 03 30	703	0.2+	0.3+
1998 09 14	704	0.5-	0.2+	1998 09 27	704	0.6-	0.9+	2000 03 30	703	0.3+	0.3-
1998 09 14	704	0.8-	0.7-	1998 10 19	699	0.6+	0.0	2000 03 30	703	0.3-	0.3+
1998 09 15	699	0.1-	0.8+	1998 10 19	699	0.6-	0.2-	2000 03 30	703	0.1+	0.4-
1998 09 15	699	0.6+	0.3+	1998 10 19	699	0.6+	0.2+	2000 04 04	699	0.2-	0.3-
1998 09 15	699	1.0+	0.7+	2000 02 07	704	0.3-	1.6-	2000 04 04	699	0.1+	0.1+
1998 09 18	704	0.4-	0.2+	2000 02 07	704	0.3-	0.1+	2000 04 04	699	0.0	0.1-
1998 09 18	704	0.2+	0.1-	2000 02 07	704	1.2-	0.4-	2000 04 04	699	0.1-	0.2-
1998 09 18	704	0.1+	0.6-	2000 02 07	704	1.0-	1.3-	2000 04 04	704	0.2-	0.8+
1998 09 18	704	0.2-	1.1+	2000 02 07	704	0.1-	0.3-	2000 04 04	704	0.4+	0.6-
1998 09 18	704	0.5+	0.0	2000 02 08	704	0.6+	1.0+	2000 04 04	704	0.4+	0.2+
1998 09 26	704	0.7-	0.9-	2000 02 08	704	0.5+	0.3+	2000 04 04	704	0.2+	0.3+
1998 09 26	704	0.1+	0.5-	2000 02 08	704	0.3+	0.9+	2000 04 04	704	1.4+	0.9-
1998 09 26	704	0.5+	0.8-	2000 02 08	704	0.4+	0.3+	2000 04 08	704	0.9-	0.0
1998 09 26	704	0.4+	0.5+	2000 02 08	704	0.7+	0.7+	2000 04 08	704	0.1+	1.3+
1998 09 26	704	0.2+	0.3-	2000 03 08	704	0.3-	0.2+	2000 04 08	704	0.4+	0.2-
1998 09 27	704	0.2+	0.4-	2000 03 08	704	0.5-	0.1+	2000 04 08	704	0.2+	0.5-
1998 09 27	704	0.1-	0.3-	2000 03 08	704	(2.3+	1.8+)	2000 04 08	704	0.7-	0.4+
1998 09 27	704	(0.1+	2.1+)	2000 03 08	704	0.3-	0.5+				

1998 RH₆₇ = 2000 ES₁₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	60.07962	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.29620994	ω	228.71987	-0.37484468	-0.92536453		
<i>a</i>	2.2287925	Ω	243.37786	+0.86836088	-0.32910267		
<i>e</i>	0.0915371	<i>i</i>	3.62337	+0.32471655	-0.18812742		
<i>P</i>	3.33	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1-	0.9-	1998 09 29	292	1.0+	0.6-	2000 04 02	699	0.4-	0.7+
1998 09 14	704	0.8-	0.5+	1998 10 02	292	0.5-	0.3+	2000 04 02	699	0.6-	0.1+
1998 09 14	704	0.3+	0.8-	1998 10 02	292	0.2+	0.0	2000 04 02	699	0.6-	1.1+
1998 09 15	699	0.3-	1.0-	1998 10 02	292	0.7-	0.4-	2000 04 02	699	0.5-	0.5+
1998 09 15	699	0.1-	0.5+	1998 10 03	292	1.4-	1.4-	2000 04 06	699	0.5+	0.1-
1998 09 15	699	0.7-	0.6+	1998 10 03	292	(5.2-	0.3+)	2000 04 06	699	0.6+	0.1+
1998 09 18	704	1.0+	0.6+	1998 10 03	292	1.8-	1.0+	2000 04 06	699	0.3+	0.6+
1998 09 18	704	1.5+	1.3+	1998 10 12	292	0.5+	0.4-	2000 04 06	699	0.2+	0.1+
1998 09 18	704	1.7+	0.6+	1998 10 12	292	0.1-	1.1-	2000 04 07	704	0.0	0.4-
1998 09 18	704	0.6-	1.4+	1998 10 12	292	0.5+	0.1+	2000 04 07	704	0.2+	0.3-
1998 09 18	704	0.4-	1.2+	1998 10 25	292	(0.8+	3.3+)	2000 04 07	704	0.3+	0.5-
1998 09 26	704	0.4-	1.1+	1998 10 25	292	(2.6+	1.2+)	2000 04 07	704	0.1+	0.6-
1998 09 26	704	1.2-	1.5+	2000 03 04	703	0.5+	0.1+	2000 04 07	704	0.5+	0.3-
1998 09 26	704	0.9+	0.1+	2000 03 04	703	0.1+	0.0	2000 04 08	704	0.3+	0.5-
1998 09 26	704	(2.9-	2.2+)	2000 03 04	703	0.2-	0.2+	2000 04 08	704	0.4+	0.6-
1998 09 26	704	(2.8-	1.7+)	2000 03 04	703	0.0	0.7+	2000 04 08	704	0.2+	0.5-
1998 09 27	704	0.0	0.2-	2000 03 05	608	0.1-	1.1+	2000 04 08	704	0.6+	0.7-
1998 09 27	704	0.3+	0.4+	2000 03 05	608	0.6-	0.3+	2000 04 08	704	0.7+	0.8-
1998 09 27	704	0.3+	0.4+	2000 03 05	608	1.0-	0.0	2000 04 10	704	0.1+	0.3-
1998 09 27	704	0.3-	0.8-	2000 04 02	699	0.4-	0.4+	2000 04 10	704	0.1-	0.1+
1998 09 27	704	0.6+	0.8-	2000 04 02	699	0.3-	0.1+	2000 04 10	704	1.0+	0.2-
1998 09 29	292	0.4+	0.6-	2000 04 02	699	1.1-	0.5+	2000 04 10	704	0.1+	0.2-
1998 09 29	292	0.1-	1.9-	2000 04 02	699	1.3-	0.2+	2000 04 10	704	0.6+	0.5+

1998 RK₆₇ = 2000 EE₁₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	162.55705	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.30063467	ω	16.66859	+0.99868548	+0.02948167		
<i>a</i>	2.2068696	Ω	341.48927	-0.04674811	+0.85937973		
<i>e</i>	0.1729870	<i>i</i>	7.58928	+0.02102200	+0.51048732		
<i>P</i>	3.28	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	1.0+	0.0	1998 09 26	704	(2.5+	1.9-)	2000 03 03	704	0.0	0.8-
1998 09 14	704	0.1+	0.1-	1998 09 26	704	(3.2+	2.4-)	2000 03 03	704	0.4-	0.6-
1998 09 14	704	0.8-	1.1-	1998 09 26	704	1.3+	1.0-	2000 03 03	704	0.1+	0.1-
1998 09 18	704	1.0-	0.5-	1998 09 27	704	0.2-	0.8+	2000 03 03	704	0.0	0.2+
1998 09 18	704	0.6-	1.7+	1998 09 27	704	0.5-	0.4+	2000 03 10	691	0.7-	0.4-
1998 09 18	704	0.6-	1.5+	1998 09 27	704	1.1-	1.3-	2000 03 10	691	0.6-	0.3-
1998 09 18	704	(2.0-	0.8-)	1998 09 27	704	1.4+	1.1-	2000 03 10	691	0.5-	0.5-
1998 09 25	699	0.1-	0.3+	1998 09 27	704	(1.1+	2.2-)	2000 03 11	704	0.4-	0.8+
1998 09 25	699	0.0	0.2+	1998 10 18	699	0.3-	0.2+	2000 03 11	704	1.3+	1.9+
1998 09 25	699	0.6+	0.7-	1998 10 18	699	0.2-	0.5+	2000 03 11	704	0.2+	0.2-
1998 09 26	704	1.0+	1.0+	1998 10 18	699	0.1-	0.5-				
1998 09 26	704	(2.1+	0.4-)	2000 03 03	704	1.0+	0.2+				

1998 RR₇₁ = 2000 EF₁₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	122.84360	(2000.0)	<i>P</i>	<i>Q</i>			
<i>n</i>	0.26597122	ω	277.15841	+0.90480709	-0.42452801		
<i>a</i>	2.3946734	Ω	107.96694	+0.40315379	+0.82896393		
<i>e</i>	0.1608810	<i>i</i>	1.99819	+0.13708080	+0.36413564		
<i>P</i>	3.71	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

M.P.C. 39998

2000 APR. 18

Residuals in seconds of arc

1998 09 14	704	0.1+	0.9-	1998 09 26	704	0.1-	0.5-	1998 10 27	120	0.7+	0.5+
1998 09 14	704	0.3+	0.2-	1998 09 26	704	0.5+	0.3+	2000 03 03	704	0.4+	0.1+
1998 09 14	704	0.2-	0.1+	1998 09 26	704	0.6+	0.0	2000 03 03	704	1.0+	0.1-
1998 09 18	704	0.8-	0.7-	1998 09 27	704	0.2-	0.4+	2000 03 03	704	0.7+	0.4+
1998 09 18	704	0.1-	0.6-	1998 09 27	704	0.5+	0.9+	2000 03 03	704	0.6+	0.3+
1998 09 18	704	0.1-	0.5+	1998 09 27	704	0.6+	0.9+	2000 03 03	704	0.9+	0.3+
1998 09 18	704	0.9-	0.3-	1998 09 27	704	0.2+	1.7+	2000 03 11	699	0.2-	0.2+
1998 09 18	704	1.4-	0.9-	1998 09 27	704	0.9+	0.6+	2000 03 11	699	0.3-	0.1+
1998 09 25	699	0.2+	0.1-	1998 10 17	699	1.4-	0.5+	2000 03 11	699	0.1-	0.3+
1998 09 25	699	0.1+	0.5+	1998 10 17	699	0.2-	1.3-	2000 03 11	699	0.1-	0.7+
1998 09 25	699	0.0	0.4+	1998 10 17	699	0.5+	1.0-	2000 03 12	704	1.0-	0.4-
1998 09 26	704	0.4-	0.3+	1998 10 27	120	(3.2+	0.4-)	2000 03 12	704	0.9-	1.3-
1998 09 26	704	0.1-	0.6+	1998 10 27	120	0.5+	1.5-	2000 03 12	704	0.8-	0.3+

1998 RU₇₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28491847	ω	76.00186	-0.23769254	-0.97114956		
<i>a</i>	2.2872957	Ω	27.77131	+0.87447693	-0.22257720		
<i>e</i>	0.1179185	<i>i</i>	2.36854	+0.42283845	-0.08560333		
<i>P</i>	3.46	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.6-	0.4+	1998 10 14	699	0.1-	0.2-	2000 04 03	699	0.5-	0.2+
1998 09 14	704	0.1-	0.1-	1998 10 19	699	0.7-	0.1-	2000 04 05	704	0.4+	0.2+
1998 09 14	704	1.7-	0.2+	1998 10 19	699	0.1-	1.3+	2000 04 05	704	0.4+	0.6+
1998 09 17	699	0.1+	0.5+	1998 10 19	699	0.8-	0.8-	2000 04 05	704	0.5+	0.5+
1998 09 17	699	0.9-	1.1+	1998 10 28	691	0.5+	0.8+	2000 04 05	704	0.3+	0.5+
1998 09 17	699	0.3+	0.5+	1998 10 28	691	0.4+	1.1+	2000 04 05	704	0.6+	0.6+
1998 09 18	704	0.3+	0.2-	1998 10 28	691	0.5+	0.9+	2000 04 06	699	0.1+	0.5+
1998 09 18	704	0.4-	1.4+	2000 03 10	704	0.9+	0.4+	2000 04 06	704	0.6+	0.2+
1998 09 18	704	1.4+	0.7+	2000 03 10	704	0.7+	0.2+	2000 04 06	704	0.7+	0.5+
1998 09 18	704	1.1-	0.2-	2000 03 10	704	0.3+	0.1+	2000 04 06	699	0.3-	0.3+
1998 09 18	704	0.2-	0.9-	2000 03 10	704	0.3+	0.3-	2000 04 06	704	0.7+	0.6+
1998 09 26	704	0.7+	1.0-	2000 03 10	704	0.4+	0.2+	2000 04 06	699	0.2-	0.7+
1998 09 26	704	0.9+	0.5-	2000 03 27	699	0.0	0.2-	2000 04 06	704	0.7+	0.5+
1998 09 26	704	0.1+	0.4-	2000 03 27	699	0.2-	0.3+	2000 04 06	699	0.4-	0.9+
1998 09 26	704	0.0	0.1-	2000 03 27	699	0.3+	0.0	2000 04 06	691	1.0-	0.1-
1998 09 26	704	0.6+	0.7+	2000 03 27	699	0.6+	0.0	2000 04 06	704	0.6+	1.1+
1998 09 27	704	0.5+	0.5+	2000 04 02	699	0.1-	0.2+	2000 04 06	691	0.7-	0.1-
1998 09 27	704	0.6+	0.2-	2000 04 02	699	0.4-	0.1-	2000 04 06	691	0.8-	0.2-
1998 09 27	704	0.8+	0.1+	2000 04 02	699	0.0	0.0	2000 04 10	704	0.0	0.3-
1998 09 27	704	0.2-	0.7-	2000 04 02	699	0.1+	0.3-	2000 04 10	704	0.4-	0.0
1998 09 27	704	1.3+	0.2-	2000 04 03	699	0.0	0.2-	2000 04 10	704	0.7+	0.1+
1998 09 30	691	1.2-	0.2-	2000 04 03	699	0.4-	0.2-	2000 04 10	704	0.2-	0.3-
1998 09 30	691	1.1-	0.3-	2000 04 03	699	0.1-	0.2+	2000 04 10	704	0.2+	0.2+
1998 09 30	691	1.0-	0.2-	2000 04 03	691	0.2-	0.2-	2000 04 12	691	0.2-	0.6-
1998 10 14	699	0.2+	0.5+	2000 04 03	691	0.3-	0.2-	2000 04 12	691	0.3-	0.7-
1998 10 14	699	0.5-	1.2+	2000 04 03	691	0.3-	0.1-	2000 04 12	691	0.4-	0.5-

1998 RM₇₃ = 2000 EY₁₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24047630	ω	57.45059	+0.59582098	-0.80302860		
<i>a</i>	2.5610685	Ω	355.91763	+0.66914166	+0.50458919		
<i>e</i>	0.1974365	<i>i</i>	9.65055	+0.44412475	+0.31707225		
<i>P</i>	4.10	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	2.0+	0.7-	1998 09 26	704	0.5+	0.5-	2000 03 03	704	0.0	0.2-
1998 09 14	704	0.6-	1.2-	1998 09 26	704	0.3-	1.4-	2000 03 11	704	0.6+	0.4+
1998 09 14	704	0.2-	0.7-	1998 09 27	704	0.2-	0.1+	2000 03 11	704	0.3-	0.2+
1998 09 15	699	0.2+	0.1+	1998 09 27	704	0.2-	0.1-	2000 03 11	704	0.5+	0.1+
1998 09 15	699	0.1+	0.4+	1998 09 27	704	0.4+	0.5+	2000 03 11	704	0.1+	0.4+

1998 09 15	699	0.8-	0.3-	1998 09 27	704	0.2-	0.0	2000 03 11	704	0.3+	0.3+
1998 09 18	704	0.8+	0.1-	1998 09 27	704	0.4-	0.3-	2000 04 05	704	1.5-	1.1-
1998 09 18	704	0.5+	1.4+	1998 10 14	699	0.4+	0.3-	2000 04 05	704	0.7+	0.5+
1998 09 18	704	0.5-	0.7+	1998 10 14	699	0.8-	0.3+	2000 04 05	704	0.6+	0.3-
1998 09 18	704	0.2-	1.2+	1998 10 14	699	0.8-	0.2-	2000 04 05	704	0.6+	0.1+
1998 09 18	704	0.5-	1.1+	2000 03 03	704	0.7-	0.2-	2000 04 06	704	0.4-	0.4+
1998 09 26	704	0.0	0.2+	2000 03 03	704	0.5-	0.1+	2000 04 06	704	0.0	0.3+
1998 09 26	704	0.8+	0.5+	2000 03 03	704	0.3-	0.6-	2000 04 06	704	0.6+	0.2+
1998 09 26	704	0.2+	0.7-	2000 03 03	704	0.2-	0.4-				

1998 RU₇₄ = 2000 GM₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28217839	ω	206.47270	+0.68927657	-0.72402625		
<i>a</i>	2.3020790	Ω	199.98973	+0.67754139	+0.65696516		
<i>e</i>	0.0957079	<i>i</i>	4.38710	+0.25658425	+0.21019698		
<i>P</i>	3.49	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.1+	1.2-	1998 10 14	699	1.2+	0.1+	2000 04 04	704	0.9+	0.6+
1998 09 14	704	1.3-	1.4-	1998 10 14	699	0.4+	0.4+	2000 04 04	704	0.3+	0.5-
1998 09 14	704	1.0-	1.3+	1998 10 14	699	0.4-	0.8+	2000 04 04	704	0.8+	0.4+
1998 09 15	699	0.0	0.3+	1998 10 19	699	0.7-	1.0+	2000 04 05	704	0.5-	0.2+
1998 09 15	699	0.6-	0.2+	1998 10 19	699	0.5-	0.4+	2000 04 05	704	0.3-	0.2+
1998 09 15	699	0.9-	0.3+	1998 10 19	699	0.2-	0.1-	2000 04 05	704	0.0	0.9+
1998 09 18	704	0.0	0.1+	2000 03 01	703	0.1-	0.0	2000 04 05	704	0.2+	0.5+
1998 09 18	704	0.3-	1.2+	2000 03 01	703	0.3-	1.0-	2000 04 05	704	0.2+	0.7+
1998 09 18	704	0.7-	1.9+	2000 03 01	703	1.1-	0.1+	2000 04 06	704	0.6+	0.2+
1998 09 18	704	0.7+	1.2-	2000 03 01	703	0.1+	0.8-	2000 04 06	704	0.9+	0.3+
1998 09 26	704	1.0+	0.7-	2000 03 11	704	0.7-	0.5-	2000 04 06	704	0.1+	1.0+
1998 09 26	704	1.2+	0.7-	2000 03 11	704	0.0	0.2-	2000 04 06	704	0.1+	0.6+
1998 09 26	704	0.4+	0.5-	2000 03 11	704	0.6+	0.6-	2000 04 07	691	0.2-	0.4-
1998 09 26	704	0.4-	0.9+	2000 03 11	704	0.7+	0.4-	2000 04 07	691	1.1-	0.4-
1998 09 26	704	1.5+	0.3-	2000 03 11	704	0.5+	0.1-	2000 04 07	704	0.4-	0.1+
1998 09 27	704	1.3+	0.2-	2000 04 02	691	0.7-	1.2-	2000 04 07	704	0.6+	0.3+
1998 09 27	704	1.2-	0.4-	2000 04 02	691	0.5-	0.4+	2000 04 07	704	0.2+	1.2+
1998 09 27	704	0.5-	0.4-	2000 04 02	691	0.6-	0.1+	2000 04 07	691	0.2-	0.2-
1998 09 27	704	0.4+	0.2+	2000 04 04	704	0.2+	1.1-	2000 04 07	704	0.5+	1.5+

1998 RY₇₄ = 2000 GH₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29596671	ω	24.67175	+0.96003866	-0.27970302		
<i>a</i>	2.2300134	Ω	351.55373	+0.24471040	+0.85557483		
<i>e</i>	0.1129842	<i>i</i>	3.74402	+0.13580351	+0.43561212		
<i>P</i>	3.33	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 01 22	691	0.1-	0.5-	1998 09 26	704	0.4-	0.6+	2000 03 11	699	0.3+	0.5+
1993 01 22	691	0.2-	0.5-	1998 09 26	704	0.1-	0.2-	2000 03 11	704	0.2-	0.0
1993 01 22	691	0.2-	0.3-	1998 09 26	704	0.1-	0.2+	2000 03 11	704	0.3-	0.4+
1998 09 14	704	0.3+	0.7-	1998 09 27	704	1.0+	0.4-	2000 03 11	699	0.6-	0.4+
1998 09 14	704	0.9+	1.6-	1998 09 27	704	0.2+	0.6+	2000 03 11	704	0.0	0.7+
1998 09 14	704	(2.9-	1.0-)	1998 09 27	704	0.6-	0.5-	2000 03 11	699	0.5+	0.0
1998 09 15	699	0.8-	0.5+	1998 09 27	704	0.7+	0.9+	2000 04 05	704	0.5+	1.8-
1998 09 15	699	1.6-	0.9+	1998 09 27	704	0.6+	0.1+	2000 04 05	704	0.7+	0.1+
1998 09 15	699	0.4-	0.3+	1998 10 15	470	0.5-	0.4-	2000 04 05	704	0.0	0.3-
1998 09 18	704	0.2+	0.4+	1998 10 15	470	1.0-	0.1+	2000 04 05	704	0.6+	0.4+
1998 09 18	704	1.2-	1.5+	2000 03 03	704	0.0	0.5+	2000 04 06	704	0.4+	0.2+
1998 09 18	704	(0.0	2.6+)	2000 03 03	704	0.1+	1.0+	2000 04 06	704	1.2+	0.3-
1998 09 18	704	0.7-	1.0+	2000 03 03	704	0.2-	0.8+	2000 04 06	704	1.2-	0.2+
1998 09 18	704	1.5+	0.8+	2000 03 11	704	0.2+	0.1-	2000 04 06	704	0.3-	0.9+
1998 09 26	704	0.3+	0.6-	2000 03 11	699	0.4+	0.6+	2000 04 06	704	0.4+	0.3+
1998 09 26	704	0.1-	0.0	2000 03 11	704	0.0	0.3+				

2000 APR. 18

M.P.C. 39999

1998 RW₇₆ = 2000 FX₄₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.31118453	ω	9.21279	+0.50243949		−0.86186674	
<i>a</i>	2.1567049	Ω	50.65826	+0.78748904		+0.42329338	
<i>e</i>	0.0343011	<i>i</i>	5.10750	+0.35695317		+0.27929992	
<i>P</i>	3.17	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 11 15	327	0.3+	0.5+	1998 09 26	704	0.8−	0.7−	2000 03 12	704	0.2+	0.0
1995 11 15	327	0.5+	0.2+	1998 09 26	704	0.5+	1.3−	2000 03 12	704	0.5+	0.2−
1995 11 15	327	0.8+	0.9+	1998 09 26	704	0.5−	0.4+	2000 03 12	704	0.0	0.2+
1995 12 07	327	0.3−	0.5−	1998 09 26	704	0.1+	0.0	2000 03 26	699	0.6+	0.1−
1995 12 07	327	0.6−	0.0	1998 09 26	704	0.5+	0.7−	2000 03 26	699	0.3−	0.5−
1995 12 07	327	1.4−	0.5−	1998 09 27	704	0.5−	1.0+	2000 03 26	699	0.3−	0.4−
1998 08 31	704	1.2+	0.4−	1998 09 27	704	1.7−	0.7+	2000 03 26	699	0.1+	0.4−
1998 08 31	704	2.0−	0.7+	1998 09 27	704	0.1−	0.4+	2000 03 28	704	0.3+	0.8+
1998 08 31	704	0.2−	1.1−	1998 09 27	704	0.1−	0.5−	2000 03 28	704	0.5−	0.2−
1998 08 31	704	0.8−	0.7+	1998 09 27	704	0.8−	0.3−	2000 03 28	704	0.8−	0.7−
1998 09 14	704	0.3+	0.2−	1998 09 29	910	0.7+	0.5+	2000 03 28	704	0.1−	0.4+
1998 09 14	704	0.6+	0.8+	1998 09 29	910	0.7+	0.4+	2000 04 05	704	0.5+	0.2+
1998 09 14	704	1.0+	1.9+	1998 09 29	910	0.7+	0.4+	2000 04 05	704	0.7+	0.3+
1998 09 17	699	0.3+	0.0	1998 10 17	699	0.1−	0.3+	2000 04 05	704	0.2+	0.2+
1998 09 17	699	0.2+	0.4+	1998 10 17	699	1.1+	0.2−	2000 04 05	704	0.2−	0.3+
1998 09 17	699	0.1+	0.2−	1998 10 17	699	1.3+	1.6−	2000 04 07	699	0.2−	0.3+
1998 09 18	704	1.1−	0.2+	2000 03 12	703	0.5+	0.7−	2000 04 07	699	0.8−	0.2−
1998 09 18	704	0.3+	0.2−	2000 03 12	703	0.1−	0.6−	2000 04 07	699	0.4−	0.3+
1998 09 18	704	0.3+	0.5−	2000 03 12	703	0.5+	0.3+	2000 04 07	699	0.8−	1.1+
1998 09 18	704	(2.4−	0.8−)	2000 03 12	703	0.3+	0.4−				
1998 09 18	704	0.8−	1.8−	2000 03 12	704	0.0	0.2−				

1998 RF₇₉ = 2000 FP₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29700557	ω	21.95264	+0.28793215		−0.95433280	
<i>a</i>	2.2248103	Ω	51.40415	+0.86277739		+0.22241500	
<i>e</i>	0.1071339	<i>i</i>	5.84915	+0.41558424		+0.19945044	
<i>P</i>	3.32	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	1.4−	0.8−	1999 01 14	910	0.5−	0.1−	2000 04 03	699	0.5+	0.0
1998 09 14	704	0.2+	0.6−	1999 01 14	910	0.4−	0.2−	2000 04 03	699	0.7+	0.0
1998 09 14	704	0.3+	0.3+	1999 01 14	910	0.6−	0.6−	2000 04 04	704	0.5+	0.1+
1998 09 18	704	1.2−	0.4+	2000 03 01	703	0.9−	0.4+	2000 04 04	704	0.3+	0.1+
1998 09 18	704	0.0	0.6+	2000 03 01	703	0.4−	0.1+	2000 04 04	704	0.2−	0.3−
1998 09 18	704	0.2−	0.5−	2000 03 01	703	0.9−	0.4+	2000 04 04	704	0.2−	0.3+
1998 09 18	704	1.7−	0.6−	2000 03 01	703	0.8−	0.4+	2000 04 04	704	0.5+	0.1+
1998 09 18	704	(2.1−	0.5+)	2000 03 08	704	0.7+	0.2−	2000 04 06	699	0.7+	0.2+
1998 09 21	699	0.0	1.1+	2000 03 08	704	0.2+	0.5−	2000 04 06	699	0.5+	0.3+
1998 09 21	699	0.2+	0.1−	2000 03 08	704	0.6−	0.8−	2000 04 06	699	0.7+	0.1+
1998 09 21	699	0.7+	0.7+	2000 03 08	704	0.1+	0.4−	2000 04 06	699	0.3+	0.4+
1998 10 28	704	0.5+	0.4+	2000 03 08	704	0.1−	0.1+	2000 04 08	704	0.8+	0.1−
1998 10 28	704	0.0	0.1−	2000 03 29	704	0.0	0.4+	2000 04 08	704	0.2+	0.1−
1998 10 28	704	0.8−	0.2−	2000 03 29	704	0.4−	0.2−	2000 04 08	704	0.1+	0.0
1998 10 28	704	0.1−	1.2−	2000 03 29	704	0.2+	0.1−	2000 04 08	704	0.0	0.1+
1998 10 28	704	1.0+	0.5−	2000 03 29	704	1.5−	0.0	2000 04 08	704	0.4+	0.6+
1998 10 29	704	0.3+	0.3+	2000 03 29	704	0.3+	0.1−	2000 04 10	704	0.6+	0.5+
1998 10 29	704	0.5−	1.3+	2000 04 02	699	0.1−	0.3+	2000 04 10	704	0.3+	0.5+
1998 10 29	704	1.2−	0.4+	2000 04 02	699	0.3−	0.3+	2000 04 10	704	0.2−	0.2+
1998 10 29	704	1.2+	0.9+	2000 04 02	699	0.6−	0.2+	2000 04 10	704	0.1−	0.3+
1998 12 15	699	0.8+	1.1+	2000 04 02	699	0.3−	0.3+	2000 04 10	704	0.1−	0.4−
1998 12 15	699	1.2+	1.0+	2000 04 03	699	0.6+	0.0				
1998 12 15	699	0.7+	1.5+	2000 04 03	699	0.3+	0.1+				

1998 RU₇₉ = 2000 GV₆

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29983975	ω	38.86131	+0.38032128		−0.92296315	
<i>a</i>	2.2107684	Ω	28.92599	+0.81511105		+0.30430589	
<i>e</i>	0.1025627	<i>i</i>	7.02037	+0.43697790		+0.23566280	
<i>P</i>	3.29	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 14	704	1.3−	1.0−	1998 09 27	704	0.6+	1.2+	2000 04 04	704	0.8−	0.6+
1998 09 14	704	0.5+	0.2−	1998 09 27	704	0.2+	0.2−	2000 04 04	704	0.3−	0.1+
1998 09 14	704	2.0−	0.2−	1998 09 27	704	0.9+	1.3+	2000 04 04	704	0.1−	1.0+
1998 09 18	704	0.1−	0.5−	1998 09 27	704	1.8−	0.2+	2000 04 04	704	0.9+	1.5+
1998 09 18	704	0.9−	1.2+	1998 09 27	704	1.7−	0.3+	2000 04 05	704	0.8+	0.6+
1998 09 18	704	0.2+	1.8+	1998 12 13	704	1.3−	0.5+	2000 04 05	704	0.4+	0.5+
1998 09 18	704	(2.2−	0.0)	1998 12 13	704	1.0−	1.5+	2000 04 05	704	1.0+	0.2+
1998 09 18	704	0.7−	1.7+	1998 12 13	704	1.1+	0.2+	2000 04 05	704	0.3−	0.3−
1998 09 25	699	0.4−	0.6−	1998 12 13	704	0.4+	0.1+	2000 04 05	704	0.2+	0.1+
1998 09 25	699	0.4+	0.4−	1998 12 13	704	1.0+	1.1+	2000 04 06	704	0.8+	0.7+
1998 09 25	699	1.0+	0.2+	1998 12 13	704	0.8−	1.0+	2000 04 06	704	0.6+	0.5+
1998 09 26	704	0.1+	0.3+	1998 12 13	704	(2.8−	0.0)	2000 04 06	704	0.4+	0.5+
1998 09 26	704	0.7+	0.4−	2000 04 02	699	0.0	0.3+	2000 04 06	704	0.4+	0.6+
1998 09 26	704	0.8−	0.9+	2000 04 02	699	0.2+	0.0	2000 04 06	704	0.3+	0.7+
1998 09 26	704	0.7+	0.3+	2000 04 02	699	0.1−	0.7+				
1998 09 26	704	0.3−	0.0	2000 04 02	699	1.0+	1.1+				

1998 RK₈₀ = 2000 GK₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29117805	ω	344.29878	−0.15379293		−0.98713413	
<i>a</i>	2.2543965	Ω	114.53151	+0.91166492		−0.15883178	
<i>e</i>	0.1172785	<i>i</i>	2.75639	+0.38107060		−0.01840313	
<i>P</i>	3.38	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 04	691	0.4−	0.2+	1998 09 26	704	1.4+	1.6−	2000 03 29	704	0.6−	0.3+
1991 09 04	691	0.1+	0.5+	1998 09 27	704	0.3+	0.1+	2000 03 29	704	0.1−	0.6−
1991 09 04	691	0.2+	0.3−	1998 09 27	704	1.4+	1.4+	2000 03 29	704	1.1+	0.6+
1998 09 14	704	1.1−	0.8−	1998 09 27	704	0.9−	0.4+	2000 03 29	704	0.0	1.1+
1998 09 14	704	1.8+	1.0+	1998 09 27	704	1.8−	0.7+	2000 04 07	704	0.3+	0.2−
1998 09 14	704	1.4−	0.4−	1998 10 19	699	0.3+	0.2−	2000 04 07	704	0.1−	0.2−
1998 09 17	699	0.2+	0.5+	1998 10 19	699	0.9+	0.2−	2000 04 07	704	0.8+	0.1−
1998 09 17	699	0.2+	0.0	1998 10 19	699	0.9+	0.5+	2000 04 07	704	0.4+	0.7+
1998 09 17	699	0.7+	0.8+	1998 10 28	704	0.7+	0.3+	2000 04 07	704	1.3−	1.3−
1998 09 18	704	0.5−	0.5−	1998 10 28	704	1.9−	0.7−	2000 04 08	704	0.0	0.4+
1998 09 18	704	0.7+	0.3−	1998 10 28	704	0.1+	0.6−	2000 04 08	704	0.2−	0.7−
1998 09 18	704	1.1−	0.7−	1998 10 28	704	1.6−	0.5−	2000 04 08	704	0.6+	0.2+
1998 09 18	704	1.3−	0.4−	1998 10 28	704	0.9−	1.0+	2000 04 08	704	0.6−	0.1−
1998 09 18	704	0.5−	0.4+	2000 03 14	703	0.2+	1.0−	2000 04 12	608	(0.4+	4.3−)
1998 09 26	704	0.3−	0.0	2000 03 14	703	0.6−	0.1−	2000 04 12	608	(0.5−	4.3−)
1998 09 26	704	1.2+	0.0	2000 03 14	703	0.3+	0.8+	2000 04 12	608	(0.1+	4.2−)
1998 09 26	704	1.4+	0.3−	2000 03 14	703	0.6−	0.2−				
1998 09 26	704	1.2+	0.9−	2000 03 29	704	0.1+	0.1−				

Residuals in seconds of arc

1998 09 16	910	0.3+	0.1-	1998 09 20	910	0.5+	0.5+	2000 04 05	704	0.7+	0.5+
1998 09 16	910	0.1+	0.0	2000 03 29	691	0.4-	0.0	2000 04 05	704	0.6-	0.4+
1998 09 16	910	0.4-	0.2-	2000 03 29	691	0.5-	0.4+	2000 04 05	704	1.5+	0.8-
1998 09 18	910	0.3-	0.1-	2000 03 29	691	0.3-	0.2+	2000 04 05	704	0.6+	0.9+
1998 09 18	910	0.0	0.1+	2000 04 01	691	0.1+	0.3-	2000 04 06	691	0.4-	0.5+
1998 09 18	910	0.1-	0.0	2000 04 01	691	0.3-	1.2-	2000 04 06	691	0.2-	0.2-
1998 09 20	910	0.6-	0.1+	2000 04 01	691	0.0	0.6-	2000 04 06	691	0.5-	0.2+
1998 09 20	910	0.2+	0.0	2000 04 05	704	0.5+	0.4+				

1998 SL₁ = 2000 GE₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.11966		(2000.0)	P	Q		
<i>n</i>	0.27403537	ω	75.26571	-0.25399755	-0.96573718		
<i>a</i>	2.3474605	Ω	29.61348	+0.84075848	-0.24767945		
<i>e</i>	0.1195649	<i>i</i>	6.18780	+0.47813222	-0.07750217		
<i>P</i>	3.60	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 16	910	0.3-	0.0	1998 10 15	327	0.2-	0.4+	2000 04 05	704	0.0	0.4+
1998 09 16	910	0.4+	0.2+	1998 10 17	327	0.3-	0.2+	2000 04 05	704	0.5+	0.1+
1998 09 16	910	0.1-	0.3+	1998 10 17	327	1.0+	1.3-	2000 04 05	704	1.0+	0.5-
1998 09 18	910	0.1+	0.2-	1998 10 17	327	0.0	0.9-	2000 04 05	704	1.2+	0.5+
1998 09 18	910	0.1+	0.4-	1998 10 18	327	0.1-	0.1-	2000 04 05	704	0.6+	0.2+
1998 09 18	910	0.0	0.3-	1998 10 18	327	0.3-	0.3-	2000 04 06	704	0.5-	0.9-
1998 10 14	327	0.7+	0.0	1998 10 18	327	0.5+	0.6-	2000 04 06	704	1.3+	0.4-
1998 10 14	327	0.4-	0.3-	2000 04 04	699	0.9-	0.0	2000 04 06	704	0.9-	1.1-
1998 10 14	327	0.5-	0.4+	2000 04 04	699	1.0-	0.5+	2000 04 06	704	0.2-	0.2-
1998 10 15	327	0.6-	1.5+	2000 04 04	699	0.3-	0.3+	2000 04 06	704	0.3+	0.5-
1998 10 15	327	0.3+	1.1+	2000 04 04	699	1.3-	1.2+				

1998 SO₁ = 2000 GY₄₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.03276		(2000.0)	P	Q		
<i>n</i>	0.26617593	ω	319.85764	-0.32359482	-0.94610152		
<i>a</i>	2.3934454	Ω	149.01606	+0.87463387	-0.30447513		
<i>e</i>	0.1396630	<i>i</i>	1.48635	+0.36097367	-0.11039389		
<i>P</i>	3.70	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 03 26	691	(1.0-	3.1+)	1998 10 10	699	0.1-	0.1+	2000 03 17	704	0.4+	0.2-
1996 03 26	691	0.1-	0.5-	1998 10 28	704	0.7-	1.2+	2000 03 17	704	1.0+	1.4+
1996 03 26	691	0.1-	0.1-	1998 10 28	704	0.2-	1.4-	2000 03 17	704	0.1-	1.2+
1997 06 29	704	0.4-	0.4+	1998 10 28	704	0.7-	0.5+	2000 04 05	704	0.8+	0.9+
1997 06 29	704	0.2+	0.5+	1998 10 28	704	0.6+	0.3-	2000 04 05	704	1.4+	0.1+
1997 06 29	704	1.4+	1.1-	1998 10 29	704	0.3+	0.1+	2000 04 05	704	0.3+	0.5+
1997 06 29	704	1.3-	0.3+	1998 10 29	704	0.7+	0.4-	2000 04 05	704	0.4+	0.7+
1998 09 16	910	0.6-	0.5-	1998 10 29	704	0.5-	1.2-	2000 04 05	704	0.3+	0.2+
1998 09 16	910	0.2-	0.4+	1998 10 29	704	1.0+	0.2+	2000 04 06	704	0.2-	0.2+
1998 09 16	910	0.4-	0.4+	1998 10 29	704	0.2+	0.7-	2000 04 06	704	0.1+	0.2-
1998 09 18	910	0.1-	0.3-	1998 11 10	704	0.2+	0.2-	2000 04 06	704	0.1+	0.1-
1998 09 18	910	0.2-	0.2-	1998 11 10	704	0.2-	0.1+	2000 04 06	704	0.2+	0.5-
1998 09 18	910	0.2-	0.4-	1998 11 10	704	0.7-	0.6-	2000 04 06	704	0.1+	0.3-
1998 09 20	910	0.3-	0.6+	1998 11 10	704	0.6-	0.5+	2000 04 07	704	0.4-	0.7+
1998 09 20	910	0.0	1.0+	1998 11 11	704	(2.5-	0.5-)	2000 04 07	704	0.5-	0.3-
1998 09 20	910	0.0	0.8+	1998 11 11	704	0.7-	0.5+	2000 04 07	699	0.6-	0.4+
1998 09 20	809	1.5+	1.5+	1998 11 11	704	0.8-	0.3-	2000 04 07	704	0.0	0.3-
1998 09 20	809	0.5+	1.0+	1998 11 11	704	0.7-	0.7-	2000 04 07	699	0.7-	0.5+
1998 09 20	809	0.2+	1.6+	1998 11 11	704	1.3-	1.0+	2000 04 07	699	0.6-	0.7+
1998 09 21	809	(2.3+	2.7+)	1998 11 14	699	1.9+	1.2+	2000 04 07	704	0.1-	0.3+
1998 09 21	809	(1.5+	2.2+)	1998 11 14	699	0.5+	0.3+	2000 04 07	699	(2.7-	0.6-)
1998 09 21	809	(1.2+	2.7+)	1998 11 14	699	0.0	0.8+	2000 04 07	704	0.9-	0.0
1998 10 10	699	0.5+	0.7-	2000 03 17	704	1.2+	0.0				
1998 10 10	699	0.3-	0.0	2000 03 17	704	0.1+	0.0				

1998 SB₂ = 2000 DR₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.43120		(2000.0)	P	Q		
<i>n</i>	0.31882094	ω	134.77815	+0.73400458	+0.67913548		
<i>a</i>	2.1221276	Ω	182.45362	-0.64392446	+0.69429076		
<i>e</i>	0.1377383	<i>i</i>	4.69362	-0.21586698	+0.23819183		
<i>P</i>	3.09	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 16	684	1.4+	0.0	1998 09 26	691	0.2-	0.3-	1998 11 11	684	0.3-	0.0
1998 09 16	684	1.0+	0.3-	1998 09 27	704	0.5-	0.5+	2000 02 29	704	0.3+	0.7+
1998 09 18	684	0.5+	0.6+	1998 09 27	704	1.7-	1.3+	2000 02 29	704	1.2+	0.3-
1998 09 18	684	0.1+	0.0	1998 09 27	704	1.4-	0.4+	2000 02 29	704	1.2-	1.5+
1998 09 22	684	0.3+	0.5+	1998 09 27	704	1.6-	0.1+	2000 02 29	704	0.2+	0.5-
1998 09 22	684	0.3+	0.2+	1998 10 13	684	0.3+	0.2-	2000 02 29	704	0.5-	0.7-
1998 09 24	684	0.0	0.3+	1998 10 13	684	0.3+	0.2-	2000 03 03	704	0.8+	0.5-
1998 09 24	684	0.3+	0.2+	1998 10 14	684	0.2+	0.7-	2000 03 03	704	0.1+	1.0-
1998 09 26	704	0.1-	0.9-	1998 10 14	684	0.3+	0.3-	2000 03 03	704	0.0	0.0
1998 09 26	704	0.4-	0.8-	1998 10 14	699	1.8+	0.6+	2000 03 03	704	0.0	0.7+
1998 09 26	704	0.1-	1.1-	1998 10 14	699	1.6+	0.0	2000 03 03	704	0.2-	0.7+
1998 09 26	704	0.3-	0.6+	1998 10 14	699	0.2+	0.7+	2000 04 04	688	0.1-	0.5-
1998 09 26	704	0.7-	0.2-	1998 11 10	684	0.4-	0.0	2000 04 04	688	0.5-	0.1+
1998 09 26	691	0.2-	0.1-	1998 11 10	684	0.3-	0.4-				
1998 09 26	691	0.3-	0.2-	1998 11 11	684	0.0	0.1-				

1998 SA₄ = 2000 GK₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	111.70753		(2000.0)	P	Q		
<i>n</i>	0.26528867	ω	15.98678	+0.56574620	-0.82423366		
<i>a</i>	2.3987791	Ω	39.56766	+0.75237097	+0.50413726		
<i>e</i>	0.1606144	<i>i</i>	2.14820	+0.33744504	+0.25784589		
<i>P</i>	3.72	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 18	910	0.2-	0.2-	1998 10 20	426	0.2+	0.9-	1998 11 11	704	0.5+	0.1+
1998 09 18	910	0.2-	0.1-	1998 10 25	426	0.3-	0.2+	1998 11 11	704	1.5+	1.2-
1998 09 18	910	0.3-	0.1-	1998 10 25	426	0.7-	0.2+	1998 11 11	704	(3.9-	0.4-)
1998 09 20	910	0.5+	0.4-	1998 10 25	426	0.5-	0.2+	2000 04 05	704	0.3+	0.2-
1998 09 20	910	0.3-	0.3-	1998 10 28	704	0.3-	1.2+	2000 04 05	704	0.4+	0.3+
1998 09 20	910	0.0	0.2-	1998 10 28	704	1.5-	0.3+	2000 04 05	704	0.2+	0.3-
1998 09 20	809	(1.7+	4.7+)	1998 10 28	704	0.2-	0.7-	2000 04 05	704	0.1+	0.2-
1998 09 20	809	(0.9+	4.2+)	1998 10 28	704	0.3-	0.3+	2000 04 05	704	0.1+	0.3+
1998 09 20	809	(1.3+	4.3+)	1998 10 29	704	0.1-	0.0	2000 04 06	704	0.3-	0.5+
1998 09 21	809	0.9+	0.7+	1998 10 29	704	0.2+	0.1-	2000 04 06	704	1.1-	0.0
1998 09 21	809	0.2+	1.1+	1998 10 29	704	0.8+	0.3+	2000 04 06	704	0.0	0.3-
1998 09 21	809	0.1-	0.6+	1998 10 29	704	0.1+	0.6-	2000 04 06	704	0.1-	0.5+
1998 10 20	426	0.1-	0.5-	1998 10 29	704	0.0	0.1-	2000 04 06	704	0.6+	0.2-
1998 10 20	426	0.2+	0.8-	1998 11 11	704	0.0	1.7+				

1998 SW₄

Id. L. H. Wasserman (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	144.95548		(2000.0)	P	Q		
<i>n</i>	0.30513287	ω	354.33112	+0.88781072	-0.45684109		
<i>a</i>	2.1851272	Ω	33.03451	+0.42613771	+0.77046865		
<i>e</i>	0.1523266	<i>i</i>	5.85098	+0.17377794	+0.44460575		
<i>P</i>	3.23	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	0.1+	0.6-	1998 10 10	699	0.3-	0.3+	2000 03 27	699	0.3+	0.4-
1998 09 14	704	0.1+	0.3+	1998 10 10	699	0.1-	0.2+	2000 04 02	699	0.1-	0.2-
1998 09 14	704	0.5-	0.0	1998 10 10	699	0.4-	0.0	2000 04 02	699	0.2-	0.3-
1998 09 17	699	0.5+	0.2+	1998 10 19	699	0.2+	0.3+	2000 04 02	699	0.2-	0.1-
1998 09 17	699	0.1-	0.3-	1998 10 19	699	0.3+	0.1-	2000 04 02	699	0.3-	1.2+

2000 APR. 18

M.P.C. 40001

1998 09 17	699	0.3+	0.1+	1998 10 19	699	0.4+	0.3+	2000 04 03	699	0.9-	1.2+
1998 09 18	704	0.1-	0.2-	1998 10 28	704	0.2+	0.3+	2000 04 03	699	0.2-	0.2+
1998 09 18	704	0.1-	0.3+	1998 10 28	704	0.1-	0.3-	2000 04 03	699	0.2+	0.2+
1998 09 18	704	0.7+	1.2+	1998 10 28	704	0.3-	0.5-	2000 04 03	699	0.5-	0.5+
1998 09 18	704	0.2-	0.8+	1998 10 28	704	0.1-	0.5-	2000 04 06	699	0.3-	1.4+
1998 09 18	704	0.9-	0.1+	1998 10 28	704	0.2-	0.5+	2000 04 06	699	0.9-	1.0+
1998 09 19	699	0.1+	0.2-	1998 10 29	704	0.2+	0.7-	2000 04 06	699	0.4-	0.3+
1998 09 19	699	0.0	0.3+	1998 10 29	704	0.3-	0.3+	2000 04 06	699	0.9-	0.6+
1998 09 19	699	0.1+	0.7+	1998 10 29	704	1.2-	0.4+	2000 04 07	699	1.4+	0.2-
1998 09 26	704	0.5-	0.3+	1998 10 29	704	0.5-	0.8+	2000 04 07	699	0.9+	0.4+
1998 09 26	704	0.1-	0.8+	1998 10 29	704	0.7-	0.7+	2000 04 07	699	0.6+	0.1-
1998 09 26	704	0.0	0.7+	1998 11 11	699	0.6+	0.2-	2000 04 07	699	0.0	0.2-
1998 09 26	704	0.7+	0.4+	1998 11 11	699	0.9+	0.2-	2000 04 08	704	0.0	0.3-
1998 09 26	704	0.8-	0.8+	1998 11 11	699	0.8+	1.1-	2000 04 08	704	0.0	0.2-
1998 09 27	704	0.0	1.2-	1998 12 09	704	0.5+	1.4+	2000 04 08	704	0.1+	0.5+
1998 09 27	704	0.6+	0.4-	1998 12 09	704	(2.7+	0.0)	2000 04 08	704	0.3+	1.1-
1998 09 27	704	0.9+	0.0	1998 12 09	704	0.8+	0.2-	2000 04 08	704	0.2+	0.3+
1998 09 27	704	0.9+	1.3-	1998 12 09	704	(3.2+	1.0-)	2000 04 10	704	0.7+	0.3-
1998 09 27	704	0.4-	1.8-	1998 12 09	704	(3.1-	3.8+)	2000 04 10	704	1.4+	0.7+
1998 09 29	327	1.1-	0.8+	2000 03 27	699	0.7+	0.3+	2000 04 10	704	0.3-	0.1+
1998 09 29	327	0.9-	0.8+	2000 03 27	699	0.6+	0.2+	2000 04 10	704	0.3+	0.4-
1998 09 29	327	1.6-	0.4+	2000 03 27	699	0.8+	0.5+				

1998 SM₈ = 2000 GQ₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.42956		(2000.0)		P		Q
<i>n</i>	0.26798803	ω	273.39646	-0.16746356		-0.98587113	
<i>a</i>	2.3826438	Ω	186.24766	+0.91765929		-0.15448409	
<i>e</i>	0.1638601	<i>i</i>	1.97498	+0.36035730		-0.06475166	
<i>P</i>	3.68	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 20	691	0.3+	0.2-	2000 04 05	704	0.2+	0.4+	2000 04 07	704	0.5-	1.3-
1998 09 20	691	0.3-	0.1-	2000 04 05	704	0.0	0.4+	2000 04 07	704	0.2-	0.2+
1998 09 20	691	0.4+	0.8-	2000 04 05	704	0.1+	0.3+	2000 04 07	704	0.8+	0.5+
1998 09 21	691	0.3-	0.4-	2000 04 05	704	0.2-	0.1+	2000 04 07	704	0.3-	0.1+
1998 09 21	691	0.3-	0.1-	2000 04 05	704	0.4+	0.8+	2000 04 07	704	0.3+	0.6+
1998 09 21	691	0.5-	0.4-	2000 04 05	704	0.2-	0.4+	2000 04 07	704	0.7+	0.3-
1998 09 26	704	1.0-	0.6+	2000 04 05	704	0.8+	1.4-	2000 04 07	704	0.1-	0.1-
1998 09 26	704	0.3-	0.6-	2000 04 06	699	0.6+	0.2+	2000 04 08	704	0.2-	0.7-
1998 09 26	704	1.8+	1.2-	2000 04 06	704	0.2+	0.5+	2000 04 08	704	0.1+	0.6+
1998 09 26	704	1.0+	0.9+	2000 04 06	699	0.1+	0.2+	2000 04 08	704	0.0	0.1+
1998 09 27	704	1.1-	0.3+	2000 04 06	704	0.5+	0.5+	2000 04 08	704	0.5-	0.1-
1998 09 27	704	0.4-	0.1-	2000 04 06	699	1.4+	0.3-	2000 04 08	704	0.8+	0.1-
1998 09 27	704	0.1+	1.1+	2000 04 06	704	0.3+	0.7+	2000 04 10	704	0.1-	0.6+
1998 09 27	704	0.5+	1.1+	2000 04 06	704	0.1-	0.7+	2000 04 10	704	0.4+	0.1-
1998 09 27	704	(2.7-	0.2-)	2000 04 06	699	0.1-	0.1+	2000 04 10	704	0.2+	0.1-
2000 03 25	691	0.0	0.6-	2000 04 06	704	0.0	0.9+	2000 04 10	704	0.3-	0.8-
2000 03 25	691	0.0	0.6-	2000 04 06	691	0.5-	0.3-	2000 04 11	691	0.3-	1.0-
2000 03 25	691	0.1-	0.5-	2000 04 06	691	0.6-	0.2-	2000 04 11	691	0.6-	0.2-
2000 04 05	704	0.1+	0.1+	2000 04 06	691	0.6-	0.1-	2000 04 11	691	0.6-	0.2-
2000 04 05	704	0.1-	0.1+	2000 04 07	704	0.8-	0.4-				
2000 04 05	704	0.3-	0.0	2000 04 07	704	0.2-	0.4+				

1998 SM₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.57212		(2000.0)		P		Q
<i>n</i>	0.21862799	ω	208.87973	+0.67170237		-0.73906513	
<i>a</i>	2.7289707	Ω	199.07096	+0.70613841		+0.65954608	
<i>e</i>	0.1611534	<i>i</i>	8.97584	+0.22401893		+0.13704634	
<i>P</i>	4.51	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 04 08	327	0.1+	0.3-	1998 09 27	704	0.8+	0.5+	1998 11 11	699	0.6-	0.6-
1996 04 08	327	0.7-	0.4+	1998 09 27	704	1.2+	0.2-	1998 11 11	699	0.0	0.3-
1996 04 08	327	0.3+	0.3-	1998 09 27	704	1.2+	0.5-	1998 11 11	699	0.2+	0.4+

1996 04 08	327	0.2-	0.1-	1998 10 10	699	0.8+	0.8+	1998 11 16	566	0.6-	0.1-
1996 04 08	327	0.1-	0.3+	1998 10 10	699	0.6+	0.8+	1998 11 16	566	0.6-	0.5-
1996 04 08	327	0.6+	0.2-	1998 10 10	699	1.4+	1.2+	1998 11 16	566	0.7-	0.5-
1998 09 17	327	0.5+	0.6-	1998 10 15	327	0.5+	1.0+	2000 02 07	703	0.4-	0.2-
1998 09 17	327	0.4+	0.1-	1998 10 15	327	0.2+	0.7+	2000 02 07	703	0.1-	0.3-
1998 09 17	327	0.3+	0.3-	1998 10 15	327	0.6+	1.0+	2000 02 07	703	0.5+	0.2+
1998 09 20	327	1.7-	0.2-	1998 10 19	691	0.1-	0.0	2000 02 07	703	0.6+	0.6-
1998 09 20	327	1.7-	0.2+	1998 10 19	691	0.1-	0.0	2000 03 01	703	0.6-	0.1-
1998 09 20	327	1.3-	0.3+	1998 10 19	691	0.1-	0.1+	2000 03 01	703	0.3+	0.5-
1998 09 25	327	1.0-	0.1-	1998 10 24	120	1.8+	0.4+	2000 03 01	703	0.3-	0.6+
1998 09 25	327	1.1-	0.2+	1998 10 28	704	0.5-	0.3-	2000 03 01	703	0.6+	0.5-
1998 09 25	327	1.0-	0.0	1998 10 28	704	0.5-	0.0	2000 03 11	699	0.3-	1.0+
1998 09 26	704	0.1-	0.3-	1998 10 28	704	0.3-	0.3-	2000 03 11	699	0.4-	0.8+
1998 09 26	704	0.7-	0.2-	1998 10 28	704	0.9-	0.4-	2000 03 11	699	0.8-	0.8+
1998 09 26	704	0.2-	0.4+	1998 10 29	704	0.2-	0.7+	2000 03 11	699	0.4-	0.3+
1998 09 26	704	0.3-	0.3-	1998 10 29	704	0.5+	0.0	2000 03 27	699	0.3+	0.2-
1998 09 26	704	0.2-	0.8-	1998 10 29	704	0.1-	0.9-	2000 03 27	699	0.9+	0.1+
1998 09 27	704	0.4+	0.8-	1998 10 29	704	0.5+	0.5-	2000 03 27	699	0.5+	0.2-
1998 09 27	704	1.4+	0.6+	1998 10 29	704	0.7+	0.7-	2000 03 27	699	0.2-	0.7-

1998 SY₉ = 2000 GU₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	96.25804		(2000.0)		P		Q
<i>n</i>	0.27512610	ω	193.47423	+0.42188115		-0.90647444	
<i>a</i>	2.3412522	Ω	231.57537	+0.83393943		+0.39571792	
<i>e</i>	0.1938390	<i>i</i>	1.30917	+0.35575458		+0.14734793	
<i>P</i>	3.58	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.5-	0.1+	1998 09 21	120	0.7+	1.4+	1998 09 29	120	0.2+	0.0
1998 09 14	704	1.0-	1.3+	1998 09 21	120	0.0	0.2-	2000 03 11	704	0.1+	0.1+
1998 09 14	704	1.2-	0.2+	1998 09 21	120	0.0	0.4+	2000 03 11	704	0.1-	0.3-
1998 09 14	704	1.5-	0.2-	1998 09 23	120	1.3+	0.5+	2000 03 11	704	0.7+	0.1+
1998 09 14	704	1.7-	0.9+	1998 09 23	120	1.9+	0.0	2000 03 11	704	0.4-	0.8-
1998 09 16	699	0.1+	0.5-	1998 09 23	120	(3.9+	0.9-)	2000 03 29	691	0.4-	0.5-
1998 09 16	699	1.5+	0.6-	1998 09 24	120	0.1+	0.4-	2000 03 29	691	0.3-	0.6-
1998 09 16	699	1.0+	0.6-	1998 09 24	120	0.3+	0.2+	2000 03 29	691	0.3-	0.5-
1998 09 18	703	(4.7+	1.8+)	1998 09 24	120	0.9-	0.0	2000 04 05	704	0.1-	0.3-
1998 09 18	703	(4.0+	2.3+)	1998 09 26	704	0.9-	0.3+	2000 04 05	704	0.2-	0.1+
1998 09 18	703	(3.7+	3.3+)	1998 09 26	704	1.0-	0.5+	2000 04 05	704	0.1+	0.3+
1998 09 18	703	(2.9+	3.7+)	1998 09 26	704	1.6+	0.4+	2000 04 05	704	0.1+	0.0
1998 09 18	704	0.2-	0.5+	1998 09 26	704	0.8+	0.8-	2000 04 05	704	0.4+	1.2+
1998 09 18	704	0.7-	0.8-	1998 09 27	704	1.8-	0.4+	2000 04 06	704	0.0	0.0
1998 09 18	704	0.4+	0.2-	1998 09 27	704	0.3+	0.3-	2000 04 06	704	0.3-	0.5+
1998 09 18	704	0.9+	1.1-	1998 09 27	704	0.3-	0.3-	2000 04 06	704	0.3+	0.6-
1998 09 18	704	0.2+	0.8-	1998 09 27	704	0.2-	0.5+	2000 04 06	704	0.1+	0.7+
1998 09 18	120	0.3-	0.2-	1998 09 27	704	0.1+	0.6-				
1998 09 18	120	1.5+	0.3-	1998 09 29	120	0.5-	0.3-				

1998 SE₁₀ = 2000 ED₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.99395		(2000.0)		P	

M.P.C. 40002

1998 09 23	910	0.0	0.5+	2000 02 03	704	0.1+	0.4+	2000 03 12	704	0.5-	0.3-
1998 10 13	691	0.5-	0.0	2000 02 03	704	0.4+	0.3+	2000 03 12	703	0.9-	0.3-
1998 10 13	691	0.6-	0.0	2000 02 03	704	1.0+	0.1+	2000 03 12	703	0.3+	0.6-
1998 10 13	691	0.7-	0.0	2000 02 03	704	0.7+	0.0	2000 03 12	704	0.2+	0.9+
1998 10 19	699	0.5+	0.9-	2000 03 04	704	0.2-	0.4+	2000 03 12	704	0.0	0.3-
1998 10 19	699	0.4+	0.1-	2000 03 04	704	0.3-	0.3-	2000 03 12	704	0.3+	0.4+
1998 10 19	699	0.3+	0.1+	2000 03 04	704	0.2-	0.1-				

1998 SL₁₀ = 2000 EU₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	49.94777		(2000.0)	P	Q		
<i>n</i>	0.21745915	ω	256.22281	-0.37810433	-0.91565490		
<i>a</i>	2.7387408	Ω	216.93990	+0.91263340	-0.34394021		
<i>e</i>	0.1171824	<i>i</i>	13.12134	+0.15536213	-0.20804141		
<i>P</i>	4.53	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 19	910	0.2+	0.0	1998 09 23	910	0.0	0.0	2000 03 09	704	0.5-	1.1+
1998 09 19	910	0.1-	0.0	1998 10 27	120	0.8+	0.0	2000 03 09	704	0.2+	0.6-
1998 09 19	910	0.2+	0.0	1998 10 27	120	1.0+	0.2-	2000 03 12	699	0.5+	0.2-
1998 09 22	910	0.2-	0.2-	1998 11 11	699	(3.2-	0.8-)	2000 03 12	699	0.3-	0.1+
1998 09 22	910	0.3-	0.0	1998 11 11	699	1.1-	0.4-	2000 03 12	699	0.7-	0.3+
1998 09 22	910	0.2-	0.1+	1998 11 11	699	0.1-	0.8+	2000 03 12	699	0.4-	0.0
1998 09 23	910	0.3-	0.0	2000 03 09	704	0.5+	0.1-				
1998 09 23	910	0.1-	0.0	2000 03 09	704	0.7+	0.7-				

1998 SM₁₀ = 2000 AE₁₇₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	344.36509		(2000.0)	P	Q		
<i>n</i>	0.19255709	ω	249.24821	-0.57924822	-0.79280571		
<i>a</i>	2.9700451	Ω	237.57926	+0.80617355	-0.52274783		
<i>e</i>	0.1491839	<i>i</i>	12.97666	+0.12064703	-0.31335892		
<i>P</i>	5.12	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 16	376	0.5-	0.4-	1999 11 17	704	1.2-	0.6+	2000 01 07	704	0.2-	0.1-
1998 09 16	376	0.7-	0.5-	1999 11 17	704	0.3-	0.8+	2000 01 07	704	0.3+	0.1+
1998 09 19	376	1.0+	0.2+	1999 12 06	704	0.7+	0.3-	2000 01 07	704	0.5-	0.1+
1998 09 19	376	0.1-	1.8+	1999 12 06	704	0.2+	0.1-	2000 01 11	704	0.1+	0.0
1998 09 20	376	0.6+	0.4-	1999 12 06	704	0.1-	0.3-	2000 01 11	704	0.4-	0.7+
1998 09 20	376	0.3-	0.5-	1999 12 06	704	0.8+	1.2-	2000 01 11	704	0.0	0.5+
1999 10 12	704	0.4-	0.1-	1999 12 06	704	0.1-	0.4-	2000 01 11	704	0.1+	0.7+
1999 10 12	704	0.5+	0.6-	1999 12 14	704	0.1-	0.4-	2000 03 05	704	0.3+	0.6+
1999 10 12	704	0.1+	1.2-	1999 12 14	704	0.1+	0.3-	2000 03 05	704	0.2+	0.8-
1999 10 12	704	0.6-	0.1+	1999 12 14	704	0.1+	0.1-	2000 03 05	704	0.6-	0.2+
1999 11 04	704	0.8+	0.5+	1999 12 14	704	0.1-	0.2-	2000 03 05	704	0.1-	0.3-
1999 11 04	704	0.3-	0.1+	1999 12 14	704	0.3+	0.2-	2000 03 05	704	0.5+	0.1-
1999 11 04	704	0.4-	1.1+	2000 01 07	704	0.3-	0.1-				
1999 11 17	704	0.7+	0.2+	2000 01 07	704	0.3-	0.3+				

1998 SE₁₃ = 2000 FA₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	28.35365		(2000.0)	P	Q		
<i>n</i>	0.24450542	ω	104.85729	-0.63571036	-0.76420540		
<i>a</i>	2.5328554	Ω	25.62285	+0.57525553	-0.56308908		
<i>e</i>	0.0493895	<i>i</i>	14.58749	+0.51473625	-0.31451678		
<i>P</i>	4.03	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	699	0.5+	1.3-	1998 10 29	704	0.3-	0.5+	2000 03 04	704	0.6-	0.2-
1998 09 14	699	1.4-	0.3-	1998 11 11	704	0.3+	1.1-	2000 03 04	704	0.9-	0.4+
1998 09 14	699	0.1+	0.3+	1998 11 11	704	0.5+	1.0-	2000 03 04	704	0.4-	0.5+
1998 09 16	910	0.4-	0.8-	1998 11 11	704	0.4+	0.4-	2000 03 04	704	0.7-	0.5+
1998 09 16	910	0.5-	1.0-	1998 11 11	704	1.7+	0.9-	2000 03 12	704	0.3+	0.2-

2000 APR. 18

1998 09 16	910	0.5-	0.9-	1998 11 11	704	0.5+	0.6-	2000 03 12	704	0.4+	0.1+
1998 09 24	910	0.6+	0.6-	1998 11 11	120	0.8-	0.0	2000 03 12	704	0.9+	0.5-
1998 09 24	910	0.8+	0.3-	1998 11 11	120	0.6-	0.5-	2000 03 12	704	0.2-	0.2-
1998 09 24	910	0.4+	0.5-	1998 11 11	120	0.9-	0.2+	2000 03 12	704	0.0	0.2-
1998 10 19	699	1.5+	0.8+	1998 11 12	120	1.1+	1.3-	2000 03 26	699	0.4+	0.4+
1998 10 19	699	0.1-	0.7+	1998 11 12	120	(3.4-	0.1-)	2000 03 26	699	0.3-	0.2+
1998 10 19	699	0.9-	0.7+	1998 11 13	120	(4.2-	0.9+)	2000 03 26	699	0.2-	0.2+
1998 10 19	699	1.3-	0.9+	1998 11 13	120	(7.0-	2.3+)	2000 03 26	699	0.3-	0.4+
1998 10 19	699	0.8+	0.6+	1998 11 13	120	(5.0-	0.7+)	2000 03 28	704	0.2+	0.2-
1998 10 19	699	0.7+	0.2+	1998 11 15	120	0.8+	1.1-	2000 03 28	704	0.5+	0.4+
1998 10 28	704	0.2+	0.6+	1998 11 15	120	0.8-	0.2+	2000 03 28	704	0.9-	0.6+
1998 10 28	704	0.4+	0.6+	1998 11 15	120	0.4-	0.5+	2000 04 04	704	0.6+	0.2+
1998 10 28	704	0.0	0.0	2000 02 03	704	0.5+	0.2-	2000 04 04	704	0.3+	1.4-
1998 10 28	704	0.5-	0.8+	2000 02 03	704	0.5+	0.3+	2000 04 04	704	1.8-	1.1-
1998 10 29	704	0.3-	1.0+	2000 02 03	704	0.2+	0.7+	2000 04 04	704	0.4+	0.5-
1998 10 29	704	0.6+	0.8+	2000 02 03	704	0.1+	0.8+	2000 04 06	608	0.2-	0.4-
1998 10 29	704	0.6-	1.0+	2000 02 03	704	0.2+	0.9+	2000 04 06	608	0.2-	0.3-
1998 10 29	704	0.9-	0.5+	2000 03 04	704	0.4+	1.8-	2000 04 06	608	0.4+	0.3-

1998 ST₂₂ = 2000 FL₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	142.09973		(2000.0)	P	Q		
<i>n</i>	0.23308929	ω	318.04474	+0.98298082	-0.04682546		
<i>a</i>	2.6148965	Ω	45.59663	+0.13787252	+0.82708368		
<i>e</i>	0.1914879	<i>i</i>	14.39738	-0.12140788	+0.56012495		
<i>P</i>	4.23	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 31	704	0.3-	0.2+	1998 10 20	699	0.2-	0.3+	1999 01 08	699	0.1+	0.2+
1998 08 31	704	1.8-	0.0	1998 10 20	699	0.1+	0.3+	1999 01 08	699	0.7-	0.2+
1998 08 31	704	(3.8-	2.6+)	1998 10 23	120	0.7+	0.4+	2000 01 31	704	0.2-	0.1+
1998 08 31	704	(6.0-	3.2+)	1998 10 23	120	0.6+	0.3+	2000 01 31	704	0.5+	0.6+
1998 09 24	120	0.1-	0.4+	1998 10 28	120	0.4+	0.2+	2000 01 31	704	0.5+	0.2-
1998 09 24	120	0.8+	0.6+	1998 10 28	120	0.3+	0.3+	2000 01 31	704	1.0+	0.8+
1998 09 24	120	0.5-	0.5+	1998 11 10	704	0.1-	0.6-	2000 03 04	704	0.4-	0.4+
1998 09 25	120	0.3+	0.4+	1998 11 10	699	0.4+	0.3-	2000 03 04	704	0.4-	0.1-
1998 09 25	120	0.0	0.0	1998 11 10	704	0.1+	0.6-	2000 03 04	704	0.8-	0.2-
1998 09 29	704	0.4-	0.5-	1998 11 10	704	0.3-	0.1+	2000 03 04	704	0.5-	0.2+
1998 09 29	704	0.1+	0.6-	1998 11 10	704	0.8+	0.2-	2000 03 04	704	0.0	0.6-
1998 09 29	704	1.2-	0.8-	1998 11 10	699	0.5+	0.0	2000 03 12	704	0.3+	0.3-
1998 09 29	704	0.7+	0.9-	1998 11 10	704	0.2-	0.5+	2000 03 12	704	0.4-	0.0
1998 09 29	704	(2.7-	2.6+)	1998 11 10	699	0.4-	0.4+	2000 03 12	704	0.9+	0.2+
1998 09 30	120	0.6-	0.2-	1998 11 11	704	0.2+	0.4-	2000 03 12	704	0.6+	0.6-
1998 09 30	120	0.0	0.3-	1998 11 11	704	0.2+	0.2-	2000 03 12	704	0.2-	1.1-
1998 10 13	120	0.2+	0.2+	1998 11 11	704	0.5-	0.4-	2000 03 28	704	0.4-	0.3-
1998 10 13	120	0.1+	0.4+	1998 11 11	704	1.1+	0.2-	2000 03 28	704	0.8-	0.0
1998 10 13	120	0.1+	0.3-	1998 11 18	704	0.1-	0.3-	2000 03 28	704	0.4-	0.1-
1998 10 13	120	0.1+	0.1+	1998 11 18	704	0.4-	0.6-	2000 04 02	704	0.1+	0.2+
1998 10 18	699	0.1-	0.3+	1998 11 18	704	0.6-	0.4-	2000 04 02	704	0.6-	1.4+
1998 10 18	699	0.1+	0.2+	1998 11 18	704	0.1-	0.4+	2000 04 02	704	0.2-	0.1-
1998 10 18	699	0.1-	0.2+	1998 11 18	704	0.7+	0.6+	2000 04 02	704	1.5+	0.2-
1998 10 20	699	0.4+	0.3+	1999 01 08	699	1.5-	0.2-				

1998 SZ₂₃ = 2000 DP₈₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 24516

2000 APR. 18

M.P.C. 40003

1998 09 24	699	0.6+	0.3-	1998 09 27	704	1.4-	0.1+	2000 03 06	704	0.6-	0.3-
1998 09 24	699	0.4-	0.2+	2000 02 29	704	0.4+	0.8-	2000 03 06	704	0.1+	0.3-
1998 09 24	699	1.1+	0.0	2000 02 29	704	0.3+	0.2+	2000 03 06	704	1.1+	0.1-
1998 09 26	704	0.4+	0.0	2000 02 29	704	0.1-	0.1+	2000 03 09	704	0.2-	0.1+
1998 09 26	704	0.9+	0.0	2000 02 29	704	0.8+	0.9-	2000 03 09	704	0.6-	1.1-
1998 09 26	704	0.3+	1.2-	2000 02 29	704	0.5-	0.1+	2000 03 09	704	0.7+	0.8+
1998 09 26	704	0.6+	0.1-	2000 03 04	704	0.7-	0.2+	2000 03 09	704	0.9-	0.8-
1998 09 26	704	0.8+	1.4-	2000 03 04	704	0.7-	0.1-				
1998 09 27	704	0.5-	0.3+	2000 03 04	704	0.3-	0.5+				

1998 ST₂₄ = 2000 FL₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	121.99897	(2000.0)	
<i>n</i>	0.29864913	ω	302.80785
<i>a</i>	2.2166403	Ω	109.12072
<i>e</i>	0.1287956	<i>i</i>	4.67984
<i>P</i>	3.30	<i>H</i>	15.1

Residuals in seconds of arc

1998 09 17	699	0.2+	0.2-	1998 10 17	699	0.3-	1.0-	2000 03 29	704	0.1-	0.0
1998 09 17	699	0.4-	0.4+	1998 10 17	699	0.2-	0.2-	2000 03 29	704	0.3-	0.1+
1998 09 17	699	0.4+	0.2+	1998 10 28	704	0.1+	1.0-	2000 03 29	704	0.1-	0.4+
1998 09 24	699	0.6+	0.3-	1998 10 28	704	0.0	0.1-	2000 04 02	699	0.1+	0.7-
1998 09 24	699	0.7+	0.0	1998 10 28	704	0.8-	0.3-	2000 04 02	699	0.1-	0.2-
1998 09 24	699	0.2-	0.4+	1998 10 28	704	0.5-	0.3+	2000 04 02	699	0.2-	0.0
1998 09 26	704	0.4+	0.6-	1998 10 29	704	0.5+	0.2+	2000 04 02	699	0.9-	0.2+
1998 09 26	704	0.2+	1.0-	1998 10 29	704	0.6+	1.2+	2000 04 04	704	0.2+	0.2+
1998 09 26	704	0.9-	0.2-	1998 10 29	704	0.5+	0.4-	2000 04 04	704	0.1-	1.5-
1998 09 26	704	0.3+	0.0	1998 10 29	704	0.2+	1.7+	2000 04 04	704	0.3+	0.7-
1998 09 26	704	0.3+	0.5+	1998 10 29	704	0.7-	0.4-	2000 04 04	704	0.6+	0.6-
1998 09 27	704	0.2-	0.2-	2000 03 08	704	0.1-	0.8-	2000 04 04	704	0.0	0.0
1998 09 27	704	0.1-	0.4+	2000 03 08	704	0.6-	0.3-	2000 04 08	704	1.0+	1.7+
1998 09 27	704	0.4-	0.2+	2000 03 08	704	0.6-	0.2+	2000 04 08	704	0.3-	0.4+
1998 09 27	704	0.4+	0.5+	2000 03 08	704	0.4-	1.4+	2000 04 08	704	0.5+	1.1+
1998 09 27	704	0.1+	0.3+	2000 03 29	704	0.7-	0.5-	2000 04 08	704	1.0+	0.6-
1998 10 17	699	0.5-	0.8-	2000 03 29	704	0.3+	0.4-				

1998 SC₂₅ = 2000 AN₂₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	310.81103	(2000.0)	
<i>n</i>	0.29575520	ω	174.08555
<i>a</i>	2.2310765	Ω	37.18845
<i>e</i>	0.0873966	<i>i</i>	6.37296
<i>P</i>	3.33	<i>H</i>	14.4

Residuals in seconds of arc

1998 09 19	699	0.4+	1.1+	1998 10 10	699	0.0	0.5+	2000 03 04	704	0.6+	0.3-
1998 09 19	699	0.3+	1.4+	1999 11 17	703	0.2+	0.9+	2000 03 04	704	0.4+	0.0
1998 09 19	699	1.3+	1.4+	1999 11 17	703	0.1+	1.3+	2000 03 04	704	0.8+	0.3+
1998 09 24	699	0.4+	1.0+	1999 11 17	703	0.3-	1.2+	2000 03 04	704	0.5+	0.2+
1998 09 24	699	0.4+	0.6+	1999 11 17	703	0.2+	0.2+	2000 03 04	704	0.4+	0.7+
1998 09 24	699	0.9-	0.2-	1999 12 15	704	0.0	0.1-	2000 03 11	699	0.4-	0.0
1998 09 25	691	0.0	0.4-	1999 12 15	704	0.1-	0.2-	2000 03 11	699	0.2-	0.1+
1998 09 25	691	0.3+	0.3-	1999 12 15	704	1.1-	0.1+	2000 03 11	699	0.3-	0.1+
1998 09 25	691	0.2+	0.1+	1999 12 15	704	1.7+	0.7-	2000 03 11	699	0.3-	0.4+
1998 09 26	704	0.1+	0.7+	2000 01 06	704	0.3-	0.8-	2000 03 11	699	0.9-	0.1-
1998 09 26	704	1.4+	0.3+	2000 01 06	704	1.0+	0.3+	2000 03 11	699	0.5-	0.3+
1998 09 26	704	0.4+	0.3-	2000 01 06	704	0.2+	0.2-	2000 03 11	699	0.5-	0.2-
1998 09 26	704	1.1+	1.1-	2000 01 10	699	0.0	0.5-	2000 03 11	699	0.3-	0.2+
1998 09 26	704	0.2+	0.1-	2000 01 10	699	0.3+	0.2+	2000 03 12	704	0.3-	0.6-
1998 09 27	704	0.5-	0.3-	2000 01 10	699	0.5-	0.2-	2000 03 12	704	0.2+	0.1+
1998 09 27	704	1.2-	0.8-	2000 02 03	704	0.1-	0.0	2000 03 12	704	0.4-	0.3-
1998 09 27	704	0.7-	1.3-	2000 02 03	704	0.1+	0.2-	2000 03 12	704	0.1-	0.7-
1998 09 27	704	0.3-	1.3-	2000 02 03	704	0.1-	0.2+	2000 03 12	704	0.1-	1.1-
1998 09 27	704	0.9-	1.2-	2000 02 03	704	0.5-	0.0	2000 04 04	704	0.5+	0.3-
1998 10 01	691	1.1-	0.3-	2000 02 03	704	0.2-	0.4+	2000 04 04	704	0.4-	0.2+

1998 10 01	691	1.1-	0.3-	2000 02 06	703	0.4+	0.1-	2000 04 04	704	0.5+	0.7-
1998 10 01	691	0.6-	0.6-	2000 02 06	703	0.1-	0.1-	2000 04 04	704	0.3+	0.3-
1998 10 10	699	1.6+	0.5-	2000 02 06	703	0.3-	0.1+	2000 04 04	704	0.0	0.6-
1998 10 10	699	0.2+	0.4+	2000 02 06	703	0.1+	0.5+				

1998 SE₂₅ = 2000 CN₅₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	109.79662	(2000.0)	
<i>n</i>	0.23034231	ω	217.32129
<i>a</i>	2.6356449	Ω	173.33310
<i>e</i>	0.1814726	<i>i</i>	13.12871
<i>P</i>	4.28	<i>H</i>	14.1

Residuals in seconds of arc

1998 08 31	704	1.4-	0.8+	1998 09 27	704	0.5+	0.3+	2000 03 09	608	0.6-	0.8-
1998 08 31	704	(0.0	2.3-)	1998 09 27	704	1.1-	0.4+	2000 03 09	608	0.0	0.3-
1998 08 31	704	(0.9-	2.6-)	1998 09 27	704	0.4-	0.5-	2000 03 09	608	0.3-	0.6-
1998 08 31	704	0.6+	1.6-	1998 09 27	704	0.5-	0.3-	2000 03 11	699	0.4+	0.4+
1998 09 22	699	0.5+	0.1+	2000 02 02	704	0.5-	0.1+	2000 03 11	699	0.3-	0.2+
1998 09 22	699	0.1-	0.5+	2000 02 02	704	0.9+	0.6+	2000 03 11	699	0.2-	0.2+
1998 09 22	699	0.1+	0.9+	2000 02 02	704	1.1+	1.2-	2000 03 11	699	0.1-	0.4+
1998 09 24	699	0.3+	0.9+	2000 02 02	704	0.1-	0.3+	2000 03 13	704	0.4+	0.3-
1998 09 24	699	0.4-	0.0	2000 02 06	704	0.0	0.7+	2000 03 13	704	0.4-	0.8+
1998 09 24	699	0.0	0.8+	2000 02 06	704	0.2+	0.2+	2000 03 13	704	1.0+	0.2+
1998 09 26	704	0.4+	0.9-	2000 02 06	704	0.1+	0.1-	2000 04 04	699	0.1+	0.4+
1998 09 26	704	0.6+	0.5+	2000 02 07	704	0.9-	0.8-	2000 04 04	699	1.1+	0.6-
1998 09 26	704	0.2+	0.5-	2000 02 07	704	1.6-	0.6-	2000 04 04	699	0.6-	0.3+
1998 09 26	704	0.2+	0.3-	2000 02 07	704	0.1-	0.3-	2000 04 04	699	0.4-	0.5+
1998 09 26	704	0.4+	0.9-	2000 02 07	704	0.4-	0.3-				
1998 09 27	704	0.1-	0.2-	2000 02 07	704	1.0+	1.0+				

1998 SQ₂₆ = 2000 FM₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	103.53720	(2000.0)	
<i>n</i>	0.26833370	ω	230.66903
<i>a</i>	2.3805971	Ω	189.94485
<i>e</i>	0.2128327	<i>i</i>	11.96129
<i>P</i>	3.67	<i>H</i>	16.5

Residuals in seconds of arc

1998 09 24	046	0.1+	0.0	1998 09 27	704	0.1+	1.0+	2000 03 29	691	0.0	0.2-
1998 09 24	046	0.1+	0.1-	1998 09 27	704	0.1+	1.1+	2000 03 29	691	0.2+	0.4-
1998 09 24	046	0.1-	0.1-	1998 09 27	704	0.4-	0.7+	2000 03 30	691	0.2-	0.7-
1998 09 24	046	0.2+	0.1+	1998 09 29	046	0.7-	0.3+	2000 03 30	691	0.5-	0.4-
1998 09 24	046	0.0	0.1+	1998 09 29	046	0.6-	0.3+	2000 03 30	691	0.3-	0.1-
1998 09 26	046	0.0	0.5-	1998 09 29	046	0.6-	0.3+	2000 04 02	691	0.5-	0.2+
1998 09 26	046	0.1-	0.3-	1998 10 13	046	0.3-	0.4-	2000 04 02	691	0.0	0.1+
1998 09 26	046	0.2-	0.4-	1998 10 13	046	0.1+	0.3-	2000 04 02	691	0.2-	0.0
1998 09 26	046	0.1-	0.4-	1998 10 13	046	0.0	0.4-	2000 04 03	691	0.1-	0.1-
1998 09 26	704	0.2+	1.0-	1998 10 19	699	0.1+	0.7+	2000 04 03	691	0.4-	0.2-
1998 09 26	704	0.8+	0.6-	1998 10 19	699	0.1+	0.2-	2000 04 03	691	0.1-	0.2-
1998 09 26	704	1.1+	0.2-	1998 10 19	699	0.3+	1.4+	2000 04 05	704	0.0	1.3+
1998 09 26	704	0.5+	0.2+	1998 10 20	046	0.3+	0.2-	2000 04 05	704	1.0+	0.3+
1998 09 26	704	0.4-	0.1+	1998 10 20	046	0.0	0.4-	2000 04 05	704	0.6+	0.5-
1998 09 27	704	0.3+	0.8-	1998 10 20	046	0.6+	0.2-	2000 04 05	704	0.4+	1.0+
1998 09 27	704	1.0-	0.0	2000 03 29	691	0.3+	0.3-				

1998 SS₃₀ = 2000 EA₃₈

Id. M. E. Sansaturio

M.P.C. 40004

2000 APR. 18

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	28.43419		(2000.0)	P	Q
<i>n</i>	0.25775765	ω	80.01650	-0.69517320	-0.71860060
<i>a</i>	2.4452785	Ω	54.04137	+0.65017590	-0.63961555
<i>e</i>	0.1655882	<i>i</i>	1.31944	+0.30660320	-0.27295627
<i>P</i>	3.82	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	327	1.2-	0.3+	2000 03 08	704	0.1+	0.4-	2000 03 30	703	0.3+	0.0
1998 09 17	327	0.9-	0.3+	2000 03 08	704	0.5+	0.4+	2000 03 30	703	0.5-	0.1-
1998 09 17	327	1.0-	0.7+	2000 03 10	704	0.4-	0.3-	2000 03 30	703	1.4-	0.1-
1998 09 19	691	0.3+	0.1+	2000 03 10	704	0.3-	0.3+	2000 03 30	703	0.6+	0.3-
1998 09 19	691	0.5+	0.1+	2000 03 10	704	0.0	0.1-	2000 04 04	704	0.6+	0.4+
1998 09 19	691	0.3+	0.2+	2000 03 10	704	0.5+	0.1+	2000 04 04	704	0.1-	1.2-
1998 09 26	704	1.2+	0.3+	2000 03 10	704	0.0	0.3+	2000 04 04	704	(2.5+ 0.8-)	
1998 09 26	704	0.3+	1.0+	2000 03 11	704	0.7+	0.9-	2000 04 04	704	(2.5+ 0.7-)	
1998 09 26	704	0.1-	0.6+	2000 03 11	704	0.9+	0.5-	2000 04 05	704	0.3+	0.0
1998 09 26	704	(2.2- 0.8-)		2000 03 11	704	0.2-	0.1+	2000 04 05	704	0.2+	0.2+
1998 09 26	704	1.5-	1.7-	2000 03 11	704	0.3+	0.2+	2000 04 05	704	0.5+	0.1+
1998 09 26	691	0.1+	0.0	2000 03 13	704	0.0	0.1-	2000 04 05	704	0.0	0.0
1998 09 26	691	0.3+	0.3+	2000 03 13	704	0.1-	0.4+	2000 04 05	704	0.3+	0.3-
1998 09 26	691	0.5+	0.1+	2000 03 13	704	0.7-	0.0	2000 04 06	704	0.4+	0.5+
1998 09 27	704	0.5-	1.7+	2000 03 13	704	0.6-	0.3-	2000 04 06	704	0.3+	0.5+
1998 09 27	704	0.4+	0.6-	2000 03 13	704	0.1-	0.1+	2000 04 06	704	0.2+	0.2+
1998 09 27	704	0.1-	0.0	2000 03 14	703	0.2+	0.1+	2000 04 06	704	0.1+	0.3+
2000 02 27	703	0.6-	0.3-	2000 03 14	703	0.1+	0.1+	2000 04 06	704	0.4+	0.5+
2000 02 27	703	0.7+	0.1+	2000 03 14	703	0.0	0.2-	2000 04 10	704	0.4-	0.3+
2000 02 27	703	0.1+	0.6-	2000 03 14	703	0.6-	0.4+	2000 04 10	704	0.4+	0.4+
2000 02 27	703	1.0+	0.0	2000 03 26	699	0.5-	0.3+	2000 04 10	704	0.3+	0.8+
2000 03 08	704	0.5-	1.4-	2000 03 26	699	1.0-	0.3+	2000 04 10	704	0.0	0.9+
2000 03 08	704	0.1+	0.3+	2000 03 26	699	0.5-	0.5+				
2000 03 08	704	0.4+	0.4+	2000 03 26	699	0.2-	0.7+				

1998 SX₃₃ = 2000 GX₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	235.92545		(2000.0)	P	Q
<i>n</i>	0.37036564	ω	298.44426	+0.59118970	+0.80476110
<i>a</i>	1.9203582	Ω	8.42956	-0.55159459	+0.45175930
<i>e</i>	0.0970850	<i>i</i>	21.37368	-0.58842004	+0.38506248
<i>P</i>	2.66	<i>H</i>	16.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 21	704	0.8+	0.0	1998 09 27	704	1.1+	0.3-	2000 03 26	699	0.4-	0.1-
1998 09 21	704	0.4+	0.1-	1998 09 29	704	1.6-	0.2-	2000 03 26	699	0.4-	0.4-
1998 09 21	704	1.4+	0.7+	1998 09 29	704	1.9-	1.0-	2000 03 26	699	0.1+	0.1+
1998 09 21	704	0.1+	1.9+	1998 09 29	704	1.8-	1.8-	2000 04 05	704	0.3+	0.1-
1998 09 21	704	0.2-	0.0	1998 09 29	704	1.9-	1.0+	2000 04 05	704	0.2+	0.1-
1998 09 26	704	0.2-	0.5+	1998 09 29	704	0.2-	1.2+	2000 04 05	704	0.3+	0.0
1998 09 26	704	0.6-	0.9-	1998 09 29	704	1.5-	0.7+	2000 04 05	704	0.3+	0.9-
1998 09 26	704	1.0+	0.5-	1998 09 29	704	0.1-	1.2-	2000 04 05	704	0.5+	0.2-
1998 09 26	704	0.6+	1.0-	1998 09 29	704	1.6-	0.9+	2000 04 06	704	0.0	0.3+
1998 09 26	704	0.2-	1.1-	1998 09 29	704	(2.2- 1.0-)		2000 04 06	704	0.0	0.1+
1998 09 27	699	0.3+	0.7-	1998 10 10	120	0.2-	1.0+	2000 04 06	704	0.1+	0.2-
1998 09 27	704	0.6+	0.1+	1998 10 10	120	0.7+	0.2+	2000 04 06	704	0.4+	0.1+
1998 09 27	699	0.7+	0.7-	2000 03 12	703	0.8-	0.1+	2000 04 06	704	0.3-	0.2-
1998 09 27	704	1.7+	0.3+	2000 03 12	703	0.3+	0.6+	2000 04 08	704	0.2-	0.4+
1998 09 27	699	0.0	0.0	2000 03 12	703	0.6+	0.1-	2000 04 08	704	1.0+	0.2+
1998 09 27	704	1.0+	0.8+	2000 03 12	703	0.5-	0.9+	2000 04 08	704	0.2+	0.5+
1998 09 27	704	0.7+	1.4+	2000 03 26	699	0.6-	0.8+	2000 04 08	704	0.4+	0.5-

1998 SX₃₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	209.16276		(2000.0)	P	Q
<i>n</i>	0.36012781	ω	148.45624	+0.95614699	+0.26889047
<i>a</i>	1.9565830	Ω	197.14973	-0.27296430	+0.96180699
<i>e</i>	0.0773932	<i>i</i>	23.18848	+0.10617635	+0.05123701
<i>P</i>	2.74	<i>H</i>	16.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 29	704	(2.3- 0.8-)		1998 09 27	704	0.1+	0.1+	1998 10 28	704	0.1-	0.3+
1998 08 29	704	0.5-	1.3+	1998 09 27	704	0.3+	0.3+	1998 10 28	704	0.9-	0.1+
1998 08 29	704	(3.2- 0.8-)		1998 10 10	699	0.0	0.6+	1998 10 28	704	(0.9- 2.2+)	
1998 08 29	704	1.3-	0.7-	1998 10 10	699	0.6+	0.4+	1998 10 29	704	(4.8- 8.1+)	
1998 08 29	704	0.6+	0.7-	1998 10 10	699	0.8-	1.2+	1998 10 29	704	(4.1- 8.0+)	
1998 09 17	699	0.6-	0.9+	1998 10 14	704	1.4+	0.4-	1998 10 29	704	(6.9- 8.3+)	
1998 09 17	699	0.1+	0.6+	1998 10 14	704	0.3+	1.1+	1998 10 29	704	(6.8- 8.2+)	
1998 09 17	699	0.7-	1.0+	1998 10 14	704	0.1+	0.9-	1998 10 29	704	(6.5- 8.2+)	
1998 09 18	704	1.2-	0.2-	1998 10 14	704	0.1-	0.7-	2000 04 04	699	0.0	0.1+
1998 09 18	704	0.7-	0.3-	1998 10 14	704	0.6+	1.5-	2000 04 04	699	1.0-	0.1+
1998 09 18	704	0.1-	1.3-	1998 10 15	704	0.5+	0.9-	2000 04 04	699	0.1+	0.3+
1998 09 18	704	0.4+	1.7-	1998 10 15	704	(2.1+ 0.2+)		2000 04 04	699	1.0-	0.8+
1998 09 18	704	0.2+	1.5+	1998 10 15	704	0.0	0.2-	2000 04 07	704	0.7+	0.2-
1998 09 26	704	0.7+	1.2+	1998 10 15	704	0.8+	0.2+	2000 04 07	704	1.0+	0.7+
1998 09 26	704	1.2+	0.2-	1998 10 15	704	0.6+	0.4-	2000 04 07	699	0.0	0.6-
1998 09 26	704	1.8+	0.2+	1998 10 19	699	0.1-	0.3+	2000 04 07	699	0.0	0.1-
1998 09 26	704	1.4+	0.8-	1998 10 19	699	1.1-	0.5-	2000 04 07	704	0.4-	1.2-
1998 09 26	704	1.1-	1.1-	1998 10 19	699	1.4-	1.1+	2000 04 07	699	0.3+	0.2+
1998 09 27	704	0.7+	0.3-	1998 10 28	704	(2.4- 1.3+)		2000 04 07	704	1.0+	0.4+
1998 09 27	704	0.6-	0.3+	1998 10 28	704	1.6-	0.5+	2000 04 07	699	0.8-	0.0

1998 SD₃₆ = 2000 FS₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	41.63084		(2000.0)	P	Q
<i>n</i>	0.29231923	ω	86.32367	-0.50191430	-0.86297701
<i>a</i>	2.2485254	Ω	34.00196	+0.74676126	-0.46615242
<i>e</i>	0.1041179	<i>i</i>	5.94315	+0.43638246	-0.19486560
<i>P</i>	3.37	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	(0.6+ 2.8-)		1998 09 29	426	0.4+	0.2-	2000 03 12	703	0.1+	0.1-
1998 09 14	704	1.5+	1.0-	1998 09 29	422	0.5+	0.4+	2000 03 12	704	0.3+	0.1+
1998 09 14	704	0.1-	0.6+	1998 09 29	422	0.4-	0.6+	2000 03 12	704	0.5+	0.2+
1998 09 18	704	0.1-	0.7-	1998 09 29	422	0.8-	1.0+	2000 03 12	704	0.1-	0.1+
1998 09 18	704	1.8-	1.7-	1998 09 29	422	0.6-	1.1+	2000 03 12	704	0.0	0.1-
1998 09 18	704	1.7+	0.3-	1998 09 29	557	0.1-	0.1+	2000 03 12	704	0.1-	0.4-
1998 09 18	704	0.9+	1.3+	1998 09 29	557	0.4+	0.0	2000 03 28	704	1.2-	0.6+
1998 09 18	704	0.8-	0.4+	1998 09 29	046	0.1-	0.2+	2000 03 28	704	0.1-	0.6+
1998 09 26	704	(2.5+ 0.8+)		1998 09 29	046	0.3-	0.1-	2000 03 28	704	0.4-	0.4-
1998 09 26	704	1.6-	0.6+	1998 09 29	046	0.2-	0.4-	2000 03 28	704	0.3-	0.3-
1998 09 26	704	0.8+	0.3-	1998 09 29	046	0.2+	0.1+	2000 04 05	704	0.1-	0.9+
1998 09 26	704	(5.7- 1.5+)		1998 09 30	658	0.2-	0.2-	2000 04 05	704	0.3-	0.3+
1998 09 29	704	0.1-	0.5+	1998 09 30	658	0.2-	0.2+	2000 04 05	704	0.4-	0.0
1998 09 29	704	(0.3- 2.2-)		1998 09 30	658	0.1-	0.5-	2000 04 05	704	0.1-	0.4+
1998 09 29	704	0.5+	0.9+	1998 09 30	422	0.2-	0.1+	2000 04 08	049	1.1+	0.7-
1998 09 29	704	0.4+	0.4-	2000 03 12	703	0.0	0.0	2000 04 08	049	0.4+	0.1-
1998 09 29	704	0.4-	1.7-	2000 03 12	703	0.3-	0.1-	2000 04 08	049	1.3+	0.5-
1998 09 29	426	0.7+	0.5-	2000 03 12	703	0.2-	0.3-				

1998 SF₃₇ = 1998 SP₁₄₀

Id. G. V. Williams (d, MPC 33385)

2000 APR. 18

M.P.C. 40005

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	108.30703	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26182072	ω 199.16975	+0.56439737	-0.82384356
<i>a</i>	2.4199146	Ω 216.52230	+0.76840412	+0.54746448
<i>e</i>	0.1440824	<i>i</i> 5.04355	+0.30167981	+0.14684833
<i>P</i>	3.76	<i>H</i> 14.7	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 21	691	0.2-	0.1-	1998 10 28	704	1.3+	0.3+	1998 11 23	699	0.8-	1.5+
1998 09 21	691	0.0	0.0	1998 10 28	704	1.4+	0.3+	1998 11 23	699	0.7-	0.7+
1998 09 21	691	0.1-	0.0	1998 10 28	704	1.1+	0.5+	1998 11 23	699	(2.2-	1.1+)
1998 09 26	704	0.0	0.2-	1998 10 29	704	0.6+	0.0	2000 03 03	703	0.8+	0.6+
1998 09 26	704	0.7+	0.3-	1998 10 29	704	0.6+	0.1-	2000 03 03	703	0.2+	0.1+
1998 09 26	704	0.7-	0.5-	1998 10 29	704	0.9+	1.1-	2000 03 03	703	0.1+	0.5+
1998 09 26	704	0.3-	0.2+	1998 10 29	704	0.7+	1.1-	2000 03 03	703	0.6-	0.0
1998 09 26	704	1.1-	0.6+	1998 10 29	704	0.1-	1.3-	2000 03 12	699	0.6+	0.5+
1998 09 27	704	0.2+	0.5+	1998 11 10	704	0.2+	0.5-	2000 03 12	699	0.6-	0.1+
1998 09 27	691	0.0	0.2-	1998 11 10	704	0.8-	0.2-	2000 03 12	699	0.6-	0.1-
1998 09 27	704	0.0	0.5+	1998 11 10	704	0.8-	1.1-	2000 03 12	699	0.2-	0.3+
1998 09 27	704	0.0	0.9+	1998 11 10	704	0.3-	0.9-	2000 04 07	704	0.3+	0.8-
1998 09 27	691	0.2-	0.2-	1998 11 11	704	0.0	1.1-	2000 04 07	704	1.0+	0.0
1998 09 27	704	0.1-	0.6+	1998 11 11	704	1.1-	1.0-	2000 04 07	704	0.0	0.5-
1998 09 27	691	0.2-	0.5-	1998 11 11	704	0.1-	0.4-	2000 04 07	704	0.2+	0.1+
1998 09 27	704	0.2+	1.3+	1998 11 11	704	0.4+	0.4+	2000 04 08	704	0.9-	0.2-
1998 10 10	699	0.1-	0.0	1998 11 11	704	1.0-	0.4+	2000 04 08	704	0.0	0.6+
1998 10 10	699	0.4-	0.5+	1998 11 14	699	0.5-	1.5+	2000 04 08	704	0.8-	0.6-
1998 10 10	699	0.0	0.1+	1998 11 14	699	0.2-	0.1+	2000 04 08	704	1.2+	0.1+
1998 10 28	704	1.3+	0.6+	1998 11 14	699	0.2-	0.0	2000 04 08	704	0.6-	0.2-

1998 SV₃₈

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	108.01005	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27342054	ω 213.64015	+0.78779708	-0.61587801
<i>a</i>	2.3509783	Ω 184.40329	+0.58640631	+0.75411651
<i>e</i>	0.1080699	<i>i</i> 6.25774	+0.18842344	+0.22804073
<i>P</i>	3.60	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 04 11	704	0.1+	0.6+	1998 09 18	704	0.1+	0.1-	2000 03 11	704	0.1-	0.3+
1997 04 11	704	(0.3+	3.4+)	1998 09 23	691	0.1-	0.4+	2000 03 11	704	0.7-	0.5+
1998 08 17	704	0.7-	1.2+	1998 09 23	691	0.1-	0.3-	2000 03 11	704	0.6-	0.2+
1998 08 17	704	1.2+	0.2-	1998 09 23	691	2.0+	0.5+	2000 03 11	704	0.4-	0.2-
1998 08 17	704	0.9-	0.7-	1998 09 27	691	0.6-	0.4+	2000 03 11	699	0.5-	0.2-
1998 08 17	704	0.2-	0.2+	1998 09 27	691	0.4-	0.7+	2000 03 11	704	0.9-	0.4+
1998 08 17	704	0.3-	1.1+	1998 09 27	691	0.5-	0.4+	2000 03 11	699	0.7-	0.6-
1998 09 14	704	0.4+	0.4-	2000 02 02	704	1.2-	1.6-	2000 03 11	699	0.0	0.2-
1998 09 14	704	0.1+	0.8-	2000 02 02	704	0.6+	0.7+	2000 03 11	699	0.3-	0.4+
1998 09 14	704	1.9+	1.1-	2000 02 02	704	0.7+	1.2+	2000 04 04	699	0.3+	1.0+
1998 09 14	704	0.7-	1.3+	2000 02 02	704	1.1+	1.5+	2000 04 04	699	0.9+	0.3+
1998 09 18	704	0.6+	0.2-	2000 02 06	704	0.2-	0.5-	2000 04 04	699	1.8+	0.3+
1998 09 18	704	1.0-	0.2-	2000 02 06	704	0.2+	0.7+	2000 04 04	699	1.4+	0.6+
1998 09 18	704	1.0-	0.6-	2000 02 06	704	0.1-	0.9-				
1998 09 18	704	0.7-	1.4+	2000 02 06	704	0.0	0.5-				

1998 SB₄₃ = 2000 GN₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	88.65378	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29363171	ω 257.44250	+0.05757704	-0.99827004
<i>a</i>	2.2418200	Ω 189.28141	+0.94223713	+0.05827980
<i>e</i>	0.1098209	<i>i</i> 4.23421	+0.32996071	+0.00777076
<i>P</i>	3.36	<i>H</i> 15.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 20	327	0.3+	0.5-	1998 10 15	327	0.0	0.4+	2000 04 05	704	0.5+	0.1+
1998 09 20	327	1.1+	0.3-	1998 10 15	327	0.2-	0.6+	2000 04 05	704	0.1+	0.4-
1998 09 20	327	0.6+	0.2-	1998 10 15	327	0.1-	0.1-	2000 04 06	704	0.3+	0.6-
1998 09 25	327	0.1-	0.2+	1998 10 15	327	1.1+	0.3-	2000 04 06	704	0.1-	0.1-
1998 09 25	327	0.4-	0.2-	1998 10 15	327	1.0+	0.5-	2000 04 06	704	0.2+	0.6+
1998 09 25	327	0.4-	0.5+	1998 10 15	327	0.4+	1.3-	2000 04 06	704	0.2-	0.3-
1998 09 26	704	1.3-	0.9+	1998 10 15	327	0.9+	0.3-	2000 04 06	704	0.2-	0.3-
1998 09 26	704	0.9+	1.0+	1998 10 15	327	0.8-	0.2-	2000 04 07	704	0.3-	1.0+
1998 09 26	704	0.4-	0.1-	1998 10 15	327	0.4+	0.9-	2000 04 07	704	0.2+	0.2-
1998 09 26	704	0.0	1.0-	1998 10 19	327	0.2-	0.6+	2000 04 07	704	0.2-	0.1-
1998 09 26	704	1.2-	0.7+	1998 10 19	327	0.1+	1.1+	2000 04 07	704	1.0+	1.0+
1998 09 27	704	0.3+	0.2-	1998 10 19	327	1.8-	0.8+	2000 04 07	704	0.0	0.2-
1998 09 27	704	0.6+	0.2-	2000 04 05	704	0.1-	0.8+	2000 04 13	691	0.3-	0.3-
1998 09 27	704	0.1-	0.3+	2000 04 05	704	0.1+	0.2+	2000 04 13	691	0.6-	0.3-
1998 09 27	704	1.0-	0.1-	2000 04 05	704	0.2+	0.1+	2000 04 13	691	0.6-	0.4-

1998 SB₄₆ = 2000 GJ₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	108.36503	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26441989	ω 50.88361	+0.42097272	-0.90667609
<i>a</i>	2.4040305	Ω 14.29208	+0.79506113	+0.35458192
<i>e</i>	0.2445474	<i>i</i> 6.24195	+0.43664606	+0.22849535
<i>P</i>	3.73	<i>H</i> 15.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 02 16	691	0.1-	0.1-	1998 10 01	691	0.7-	0.0	1998 11 17	699	0.1-	0.1-
1996 02 16	691	0.0	0.1-	1998 10 11	699	0.2+	0.2+	1998 11 17	699	1.6-	0.1-
1996 02 16	691	0.1-	0.0	1998 10 11	699	0.2+	0.4-	2000 04 05	704	0.2+	1.1-
1998 09 25	691	0.6-	0.1+	1998 10 11	699	0.3+	0.0	2000 04 05	704	0.3-	0.6-
1998 09 25	691	0.5-	0.1+	1998 10 12	910	0.7+	0.1-	2000 04 05	704	0.7-	0.2+
1998 09 25	691	0.5-	0.1+	1998 10 12	910	0.7+	0.1+	2000 04 06	704	0.0	0.4+
1998 09 30	691	0.1-	0.3+	1998 10 13	910	0.7+	0.1+	2000 04 06	704	1.2+	0.1-
1998 09 30	691	0.3+	0.2+	1998 10 14	910	0.5+	0.1-	2000 04 06	704	0.1-	0.4+
1998 09 30	691	0.3+	0.1-	1998 10 15	910	0.6+	0.0	2000 04 06	704	0.2-	1.2+
1998 10 01	691	0.6-	0.1-	1998 10 15	910	0.6+	0.0				
1998 10 01	691	0.7-	0.1+	1998 11 17	699	0.2-	0.3+				

1998 SG₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.98157	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23236679	ω 32.18795	+0.70955813	-0.70453865
<i>a</i>	2.6203141	Ω 12.62820	+0.63394015	+0.63060786
<i>e</i>	0.2233840	<i>i</i> 3.23861	+0.30764775	+0.32551347
<i>P</i>	4.24	<i>H</i> 14.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1996 03 16	691	0.1-	0.5-	1998 10 29	704	0.9-	0.2+	2000 03 11	699	0.3-	0.1+
1996 03 16	691	0.3-	0.5-	1998 10 29	704	0.4+	0.0	2000 03 11	699	0.6+	0.0
1996 03 16	691	0.4-	0.5-	1998 10 29	327	0.3-	0.0	2000 03 11	704	0.9-	0.3-
1998 09 21	809	(1.2+	2.1-)	1998 10 29	327	0.4-	0.2+	2000 03 11	699	0.2+	0.5-
1998 09 21	809	0.1-	1.8-	1998 10 29	327	0.1-	0.1+	2000 03 11	704	0.2-	0.4+
1998 09 21	809	0.2-	1.4-	1998 10 30	327	0.4-	0.3+	2000 03 11	704	0.2-	0.4-
1998 09 25	691	0.0	0.1-	1998 10 30	327	0.2-	0.3+	2000 03 11	704	0.6-	0.3-
1998 09 25	691	0.5+	0.0	1998 10 30	327	0.4-	0.2+	2000 03 11	704	0.8+	1.2+
1998 09 25	691	0.1+	0.3-	1998 11 10	704	0.2-	0.5+	2000 04 02	699	0.8-	0.2-
1998 09 30	691	0.3+	0.1-	1998 11 10	704	0.0	0.6-	2000 04 02	699	0.3-	0.2+
1998 09 30	691	0.4+	0.1-	1998 11 10	704	0.4-	0.2-	2000 04 02	699	0.1-	0.2-
1998 09 30	691	0.4+	0.1-	1998 11 10	704	0.3+	0.4-	2000 04 02	699	1.0-	1.2-
1998 10 01	691	0.7-	0.1-	1998 11 11	704	0.1+	0.8+	2000 04 05	704	0.5-	0.1-
1998 10 01	691	0.8-	0.1-	1998 11 11	704	1.3+	0.2-	2000 04 05	704	0.1-	0.0
1998 10 01	691	0.6-	0.1-	1998 11 11	704	1.1+	0.5-	2000 04 05	704	0.2-	0.5+
1998 10 15	691	0.1+	0.2+	1998 11 11	704	0.1+	0.1-	2000 04 05	704	0.4-	0.3+
1998 10 15	691	0.2+	0.0	1998 11 11	704	0.1-	0.7-	2000 04 05	704	0.3-	0.9+
1998 10 15	691	0.4+	0.1-	1998 11 14	327	0.2-	0.0	2000 04 06	704	0.5-	1.8+
1998 10 15	327	0.2+	0.1-	1998 11 14	327	0.1-	0.0	2000 04 06	704	1.5+	0.2+

M.P.C. 40006

1998 10 15	327	0.2+	0.0	1998 11 14	327	0.0	0.0	2000 04 06	691	0.1-	0.6-
1998 10 15	327	0.2+	0.2+	1998 11 17	699	0.5+	1.2+	2000 04 06	704	1.0+	0.3-
1998 10 28	704	0.0	0.6+	1998 11 17	699	0.4+	0.7+	2000 04 06	691	0.2-	0.5-
1998 10 28	704	0.0	0.6-	1998 11 17	699	0.5+	0.6+	2000 04 06	691	0.0	0.5-
1998 10 28	704	0.0	0.1+	1999 01 08	704	0.5+	0.3+	2000 04 10	704	1.2+	0.1-
1998 10 28	704	0.6+	0.5+	1999 01 08	704	0.0	0.9-	2000 04 10	704	0.4+	0.1-
1998 10 29	704	0.7-	0.0	1999 01 08	704	0.9-	0.7-	2000 04 10	704	1.0+	0.2-
1998 10 29	704	0.2-	0.1+	1999 01 08	704	0.5-	0.2-				
1998 10 29	704	0.4-	0.3+	2000 03 11	699	0.0	0.0				

1998 SD₄₇ = 2000 FU₃₆

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	6.44814		(2000.0)		P	Q	
n	0.28654149	ω	140.10322		-0.99202184	-0.11923660	
a	2.2786505	Ω	33.11671		+0.08781755	-0.88654623	
e	0.0883104	i	4.29644		+0.09044752	-0.44701052	
P	3.44	H	15.9	G	0.15	U	4

Residuals in seconds of arc

1998 09 25	691	0.2+	0.3-	2000 03 08	704	0.8+	0.9+	2000 04 05	704	0.2+	0.5+
1998 09 25	691	0.1+	0.2-	2000 03 08	704	1.2-	0.4-	2000 04 06	699	0.2+	0.3-
1998 09 25	691	0.2+	0.0	2000 03 29	704	0.1-	0.1-	2000 04 06	704	0.4-	0.4-
1998 09 30	691	0.3-	0.2-	2000 03 29	704	0.1+	0.1-	2000 04 06	704	0.3+	0.1-
1998 09 30	691	0.1+	0.2-	2000 03 29	704	0.2+	0.3+	2000 04 06	699	0.6+	0.1+
1998 09 30	691	0.1-	0.2-	2000 03 29	704	0.1+	0.4-	2000 04 06	704	0.6+	0.5-
1998 10 12	691	0.2+	0.3-	2000 03 29	704	0.2-	0.2-	2000 04 06	699	1.0-	0.1-
1998 10 12	691	0.3+	0.1+	2000 04 02	699	0.8-	0.0	2000 04 06	704	0.1-	0.6-
1998 10 12	691	0.5+	0.0	2000 04 02	699	0.6-	0.1+	2000 04 06	699	0.6-	0.0
1998 10 13	691	0.4-	0.3+	2000 04 02	699	0.4-	0.5-	2000 04 06	704	0.6+	0.7-
1998 10 13	691	0.3+	0.2+	2000 04 02	699	0.2+	0.1+	2000 04 07	699	0.3+	1.0-
1998 10 13	691	0.5+	0.3+	2000 04 04	704	0.7+	0.7+	2000 04 07	699	0.4+	0.3+
1998 10 18	691	0.2-	0.1-	2000 04 04	704	0.5-	0.7-	2000 04 07	699	0.3+	0.1-
1998 10 18	691	0.6-	0.1+	2000 04 04	704	0.9-	0.2+	2000 04 07	699	0.3+	0.5-
1998 10 18	691	0.6-	0.1-	2000 04 04	704	0.1-	0.1-	2000 04 10	704	0.4-	0.3-
2000 03 01	703	0.8+	0.4+	2000 04 04	704	0.3-	0.5-	2000 04 10	704	0.3+	1.3+
2000 03 01	703	0.6+	0.4+	2000 04 05	704	0.1-	0.0	2000 04 10	704	0.2-	0.6+
2000 03 01	703	0.1+	0.6+	2000 04 05	704	0.2+	0.4+	2000 04 10	704	0.2+	0.1+
2000 03 01	703	0.7-	0.4-	2000 04 05	704	0.0	0.5+	2000 04 10	704	0.7+	0.2+
2000 03 08	704	0.5-	0.6-	2000 04 05	704	0.0	0.6+				

1998 SG₄₇ = 2000 EV₁₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	110.26137		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.27412544	ω	36.34358		+0.79048853		-0.61246913
a	2.3469463	Ω	1.43573		+0.52902176		+0.68023864
e	0.1131362	i	7.05102		+0.30864846		+0.40268717
P	3.60	H	15.6	G	0.15	U	4

Residuals in seconds of arc

1998 09 14	704	0.8+	1.3-	1998 09 26	704	0.3+	1.3-	1998 09 30	691	0.7+	0.6+
1998 09 14	704	0.6-	0.1+	1998 09 26	704	(2.2-	0.5+)	1998 09 30	691	0.5+	0.4+
1998 09 14	704	0.1+	0.5-	1998 09 26	704	0.3-	1.6-	2000 03 02	703	0.4-	0.6+
1998 09 14	704	1.2+	0.1-	1998 09 26	704	0.8-	0.4-	2000 03 02	703	0.7-	0.8-
1998 09 14	704	0.5-	0.3+	1998 09 26	704	0.7-	1.2+	2000 03 02	703	0.6-	0.6-
1998 09 17	699	0.2-	1.1+	1998 09 26	691	0.2-	0.4+	2000 03 02	703	0.6-	1.7-
1998 09 17	699	0.3-	0.4+	1998 09 26	691	0.5-	0.7+	2000 03 05	704	0.6+	0.2+
1998 09 17	699	0.7+	0.8+	1998 09 26	691	0.7-	0.2+	2000 03 05	704	0.2+	0.2+
1998 09 18	704	1.0+	0.2+	1998 09 27	704	0.4+	0.0	2000 03 05	704	0.3+	0.5+
1998 09 18	704	0.3-	0.4-	1998 09 27	704	1.1-	1.8-	2000 03 05	704	0.9+	0.5+
1998 09 18	704	0.3+	0.7+	1998 09 27	704	0.9+	1.0-	2000 03 05	704	0.4+	1.3+
1998 09 18	704	0.1-	0.2-	1998 09 27	704	0.4-	0.6+				
1998 09 18	704	0.9-	0.1+	1998 09 30	691	0.7+	0.5+				

1998 SM₄₈ = 2000 CO₄₆

Id. A. Doppler

2000 APR. 18

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	111.73942		(2000.0)		P		Q
n	0.23332648	ω	179.64226		+0.81964135		-0.57198013
a	2.6131240	Ω	215.30828		+0.52546659		+0.77291261
e	0.0451677	i	3.17818		+0.22819494		+0.27467222
P	4.22	H	15.1	G	0.15	U	4

Residuals in seconds of arc

1998 09 27	691	1.0+	0.4-	1998 10 18	691	0.1-	0.3+	2000 02 02	704	0.2+	0.0
1998 09 27	691	0.5+	0.0	1998 10 18	691	0.1+	0.3+	2000 02 02	704	0.0	0.6-
1998 09 27	691	0.7+	0.3+	1998 10 18	691	0.1+	0.4+	2000 02 02	704	0.5-	0.1+
1998 09 30	691	1.0-	0.2+	1998 11 10	704	(2.0-	3.0+)	2000 02 06	704	1.2+	0.6+
1998 09 30	691	0.6-	0.0	1998 11 10	704	0.7+	0.1+	2000 02 06	704	0.5+	0.3+
1998 09 30	691	1.2-	1.1-	1998 11 10	704	0.9-	0.9-	2000 02 06	704	0.1-	0.6-
1998 10 12	691	0.3+	0.3+	1998 11 10	704	(4.8-	1.7+)	2000 02 06	704	0.5-	0.0
1998 10 12	691	0.1+	0.4+	2000 02 02	704	0.8-	0.6+				
1998 10 12	691	0.4+	0.0	2000 02 02	704	0.0	0.4-				

1998 SW₅₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	77.13100		(2000.0)		P		Q
n	0.28174826	ω	239.02445		-0.13471591		-0.98894455
a	2.3044213	Ω	218.86984		+0.93947196		-0.10759281
e	0.0741396	i	5.66712		+0.31503027		-0.10204144
P	3.50	H	15.6	G	0.15	U	4

Residuals in seconds of arc

1998 09 26	704	(0.5+	2.7+)	1998 10 01	691	0.6-	0.3-	2000 04 06	699	0.6-	0.1-
1998 09 26	704	0.3-	0.9+	1998 10 28	704	0.5-	0.7-	2000 04 06	699	0.2+	0.1-
1998 09 26	704	(1.1-	3.7+)	1998 10 28	704	0.4+	1.5-	2000 04 06	699	0.2+	0.2+
1998 09 26	704	1.1+	0.3-	1998 10 28	704	1.6-	0.0	2000 04 06	699	0.5+	0.0
1998 09 27	704	0.4+	0.3+	1998 10 28	704	0.9-	1.4+	2000 04 07	704	0.5+	0.5+
1998 09 27	704	0.2+	1.3+	1998 10 29	704	(0.9-	2.4+)	2000 04 07	704	0.0	0.2+
1998 09 27	704	(0.1+	2.2+)	1998 10 29	704	1.8+	0.2-	2000 04 07	704	0.1+	1.2-
1998 09 27	704	0.4+	0.7-	1998 10 29	704	0.3+	0.7+	2000 04 07	704	0.7+	0.5-
1998 09 27	704	0.6-	0.3-	1998 10 29	704	1.2-	1.0+	2000 04 08	704	0.2+	0.5-
1998 09 30	691	0.0	0.2-	1998 10 29	704	1.6+	0.9-	2000 04 08	704	0.0	0.5-
1998 09 30	691	0.6+	0.5-	2000 04 02	699	1.0-	0.9+	2000 04 08	704	0.2+	1.1-
1998 09 30	691	0.1+	0.3+	2000 04 02	699	0.5-	0.2+	2000 04 08	704	0.1-	1.1+
1998 10 01	691	0.5-	0.1-	2000 04 02	699	0.0	0.4+				
1998 10 01	691	0.5-	0.1-	2000 04 02	699	0.5-	0.5+				

1998 SS₅₃ = 2000 CJ₄₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	80.87091		(2000.0)		P		Q
n	0.21449756	ω	217.32687		+0.69836006		-0.71533402
a	2.7638925	Ω	188.47537		+0.69001401		+0.68188587
e	0.2256086	i	9.48979		+0.19019436		+0.15273798
P	4.59	H	14.1	G	0.15	U	2

Residuals in seconds of arc

1996 04 20	566	0.2+	0.8+	1998 09 25	699	0.1-	0.6+	2000 02 02	704	0.5-	0.3+
1996 04 20	566	0.2+	0.7+	1998 09 25	699	0.2-	0.9+	2000 02 02	704	0.2-	0.5+
1996 04 20	566	0.1+	0.3+	1998 09 26	704	0.6-	0.6-	2000 02 02	704	0.5+	1.7+
1998 08 23	704	0.8+	0.8+	1998 09 26	704	0.6-	0.1-	2000 02 02	704	0.0	0.7+
1998 08 23	704	0.5+	0.4-	1998 09 26	704	1.3-	0.7-	2000 02 06	704	1.2+	0.6-
1998 08 23	704	1.2+	1.0-	1998 09 26	704	0.3-	0.8-	2000 02 06	704	0.8-	0.3+
1998 08 23	704	0.6+	0.2+	1998 09 26	704	0.5-	0.8-	2000 02 06	704	0.0	0.2-
1998 08 23	704	0.8-	1.2-	1998 09 27	704	0.3-	0.6+	2000 03 10	608	0.4+	0.6-
1998 09 14	704	0.3+	0.5+	1998 09 27	704	0.3-	0.3-	2000 03 10	608	0.5-	0.7-
1998 09 14	704	0.4+	0.3+	1998 09 27	704	0.2-	0.6-	2000 03 10	608	0.6+	0.4-
1998 09 14	704	0.4-	0.8+	1998 09 27	704	0.5-	0.3+	2000 03 11	699	0.7-	0.6+
1998 09 14	704	0.1+	0.5+	1998 09 27	704	1.0+	0.3+	2000 03 11	699	0.4-	0.4+

2000 APR. 18

M.P.C. 40007

1998 09 16	699	0.4+	1.2+	1998 12 08	704	0.2-	0.7-	2000 03 11	699	0.9-	0.6+
1998 09 16	699	0.1+	1.2+	1998 12 08	704	1.3+	1.5+	2000 03 11	699	0.5-	0.6+
1998 09 16	699	0.2+	0.5+	1998 12 08	704	1.6+	0.7-	2000 03 13	704	0.1+	1.2+
1998 09 18	704	0.1+	0.0	1998 12 08	704	0.6-	1.2+	2000 03 13	704	1.1+	0.3+
1998 09 18	704	0.2+	1.2+	1998 12 08	704	0.3+	1.0-	2000 03 13	704	0.6+	1.1-
1998 09 18	704	0.3-	0.4+	1998 12 16	699	0.1-	1.5-	2000 04 02	699	0.4-	0.2+
1998 09 18	704	0.2+	0.2+	1998 12 16	699	2.0-	0.4-	2000 04 02	699	0.6-	0.4-
1998 09 18	704	0.2-	1.0+	1998 12 16	699	0.2-	1.4-	2000 04 02	699	1.2+	0.2-
1998 09 25	699	0.4-	0.5+	2000 02 02	704	0.6-	0.4+	2000 04 02	699	1.4+	0.3-

1998 SY₅₆ = 2000 EU₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	67.50935	(2000.0)	
<i>n</i>	0.27400789	ω 297.51966	-0.04766666 -0.99812432
<i>a</i>	2.3476175	Ω 155.12307	+0.94563647 -0.05748005
<i>e</i>	0.1629046	<i>i</i> 5.23948	+0.32171346 +0.02106836
<i>P</i>	3.60	<i>H</i> 14.6	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.8+	1.1-	1998 09 26	704	0.1+	0.3+	2000 04 04	704	0.4-	0.0
1998 09 14	704	0.3+	0.2-	1998 09 26	704	1.1-	0.2-	2000 04 04	704	0.3-	0.4+
1998 09 14	704	0.3+	0.9-	1998 09 26	704	0.6-	0.9-	2000 04 04	704	0.5+	0.2+
1998 09 17	699	0.5-	0.4-	1998 09 26	704	1.9-	1.2-	2000 04 04	704	0.4-	1.1+
1998 09 17	699	0.1-	0.1-	1998 09 26	704	1.1-	0.2-	2000 04 07	699	0.4+	0.1+
1998 09 17	699	0.7+	0.4-	1998 09 27	704	0.3+	0.2+	2000 04 07	699	0.1+	0.3-
1998 09 18	704	0.1-	0.1-	1998 09 27	704	1.5+	0.4+	2000 04 07	699	0.7+	0.1+
1998 09 18	704	0.2-	0.0	1998 09 27	704	0.9+	0.3+	2000 04 07	699	0.2+	0.0
1998 09 18	704	0.6+	0.3+	1998 09 27	704	1.8+	0.5-	2000 04 08	704	0.2+	0.3+
1998 09 18	704	0.3-	0.1-	1998 09 27	704	1.0+	1.1-	2000 04 08	704	0.1+	0.4-
1998 09 18	704	0.7-	0.9+	2000 03 08	704	0.2-	1.5-	2000 04 08	704	0.5+	0.2+
1998 09 18	704	0.1+	1.2+	2000 03 08	704	0.2-	0.0	2000 04 08	704	0.2-	0.7-
1998 09 18	704	0.3+	0.2-	2000 03 08	704	0.0	0.5-	2000 04 08	704	0.2+	0.4-
1998 09 18	704	0.4+	0.0	2000 03 08	704	0.5-	0.2-	2000 04 10	704	0.4-	0.4-
1998 09 18	704	0.9-	0.6+	2000 03 12	704	0.1-	0.7+	2000 04 10	704	0.0	0.3-
1998 09 18	704	0.3-	1.3+	2000 03 12	704	0.2+	0.2+	2000 04 10	704	0.7-	0.1-
1998 09 25	699	0.6+	0.3+	2000 03 12	704	0.5+	0.9+	2000 04 10	704	0.0	0.0
1998 09 25	699	0.2-	0.9+	2000 03 12	704	0.1-	0.0	2000 04 10	704	0.0	0.3+
1998 09 25	699	1.5-	0.6+	2000 04 04	704	0.1-	0.1-				

1998 SB₅₈ = 2000 GB₂₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	79.19020	(2000.0)	
<i>n</i>	0.27500711	ω 59.33380	+0.08912231 -0.99451849
<i>a</i>	2.3419274	Ω 25.72418	+0.86530055 +0.05011985
<i>e</i>	0.1669105	<i>i</i> 7.23766	+0.49326683 +0.09176586
<i>P</i>	3.58	<i>H</i> 15.7	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	0.0	0.6+	1998 09 27	704	0.2-	1.0-	2000 04 05	704	0.4+	0.1+
1998 09 17	699	0.0	0.0	1998 09 27	704	1.2+	0.2+	2000 04 05	704	0.5+	0.1-
1998 09 17	699	0.1-	1.1+	1998 09 27	704	0.4+	0.2-	2000 04 05	704	0.1-	0.3-
1998 09 25	699	0.5-	1.0+	1998 09 27	704	0.4-	0.7-	2000 04 06	704	0.3-	0.6-
1998 09 25	699	0.4-	0.4+	1998 10 19	910	0.3-	0.3+	2000 04 06	704	0.2+	0.1-
1998 09 25	699	0.4-	1.9+	1998 10 19	910	0.0	0.3+	2000 04 06	704	0.1+	0.7-
1998 09 26	704	0.2-	0.8-	1998 10 19	910	0.2+	0.0	2000 04 06	704	0.2-	0.5+
1998 09 26	704	0.6+	1.2-	1998 10 22	910	0.1-	0.1+	2000 04 06	704	0.1+	0.2+
1998 09 26	704	0.2-	0.3-	1998 10 22	910	0.1+	0.0	2000 04 07	699	0.0	0.5-
1998 09 26	704	0.3+	1.0-	1998 10 22	910	0.1+	0.0	2000 04 07	699	0.7-	0.4+
1998 09 26	704	1.8-	0.6-	2000 04 05	704	0.2+	0.5+	2000 04 07	699	0.5-	0.2-
1998 09 27	704	1.9+	0.0	2000 04 05	704	0.1+	0.3+	2000 04 07	699	0.1+	0.2+

1998 SD₆₀ = 2000 FA₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	88.63033	(2000.0)	
<i>n</i>	0.25847853	ω 350.11870	+0.39574522 -0.91680907
<i>a</i>	2.4407299	Ω 76.55316	+0.84627968 +0.34150499
<i>e</i>	0.1516306	<i>i</i> 3.14481	+0.35664608 +0.20696730
<i>P</i>	3.81	<i>H</i> 15.3	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1992 01 30	691	0.1-	0.2-	1998 09 25	699	0.4+	1.3+	2000 03 26	699	0.0	0.3-
1992 01 30	691	0.1-	0.4+	1998 09 25	699	0.3+	0.9+	2000 03 26	699	0.9-	0.6+
1992 01 30	691	0.2+	0.1+	1998 09 25	699	0.3+	1.1+	2000 03 26	699	0.2-	0.8+
1998 09 14	704	1.0-	0.1+	1998 09 26	704	0.0	0.2+	2000 03 28	049	0.1+	0.5-
1998 09 14	704	0.9-	0.9-	1998 09 26	704	0.1-	0.6-	2000 03 28	049	0.3+	0.5-
1998 09 14	704	0.6-	1.0+	1998 09 26	704	0.3-	1.2-	2000 03 28	049	0.3+	0.9-
1998 09 17	699	0.5+	0.7+	1998 09 26	704	0.4-	0.3-	2000 03 31	049	1.0-	1.3-
1998 09 17	699	0.5+	0.8+	1998 09 27	704	0.6-	0.1+	2000 03 31	049	0.2+	1.5-
1998 09 17	699	0.4+	1.8+	1998 09 27	704	0.0	0.9-	2000 03 31	049	0.5+	0.7-
1998 09 18	704	0.6+	0.0	1998 09 27	704	0.3+	0.1-	2000 04 08	704	0.4+	0.4+
1998 09 18	704	0.5+	0.4-	1998 09 27	704	0.8+	0.5-	2000 04 08	704	0.5+	1.3+
1998 09 18	704	0.4-	0.7-	1998 09 27	704	1.1-	1.1-	2000 04 08	704	0.6+	0.4+
1998 09 18	704	0.6+	1.3-	2000 03 26	699	0.6-	0.2+	2000 04 08	704	0.1-	1.8+

1998 SJ₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	7.69878	(2000.0)	
<i>n</i>	0.28348522	ω 105.97633	-0.96431731 -0.25545422
<i>a</i>	2.2949987	Ω 59.26912	+0.20125039 -0.87794899
<i>e</i>	0.0718269	<i>i</i> 4.64006	+0.17201863 -0.40490581
<i>P</i>	3.48	<i>H</i> 13.5	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1998 09 18	699	1.0-	0.4-	1998 11 11	704	0.8+	0.8+	2000 03 29	704	0.5-	0.4-
1998 09 18	699	0.6-	0.3+	1998 11 11	704	0.2-	0.2-	2000 03 29	704	0.2-	0.0
1998 09 18	699	1.0-	0.4-	1998 11 11	704	0.8-	0.1+	2000 03 29	704	0.2+	0.6-
1998 09 20	809	(2.5+ 2.6+)		1998 11 14	699	1.0-	0.8+	2000 03 29	704	0.0	0.6-
1998 09 20	809	(1.3+ 2.8+)		1998 11 14	699	0.8-	0.1+	2000 04 05	704	0.5+	0.3+
1998 09 20	809	(0.6+ 3.0+)		1998 11 14	699	0.2-	0.5+	2000 04 05	704	0.2+	0.4+
1998 09 21	809	(1.6+ 2.1+)		1998 11 23	699	0.3+	0.2+	2000 04 05	704	0.4+	0.7+
1998 09 21	809	1.6+	1.5+	1998 11 23	699	0.3-	0.8+	2000 04 05	704	0.4+	0.3+
1998 09 21	809	1.2+	1.6+	1998 11 23	699	0.6+	0.5+	2000 04 05	704	0.6+	0.0
1998 10 11	699	0.0	0.3-	1999 01 15	691	0.6-	0.3-	2000 04 07	699	0.7-	0.0
1998 10 11	699	0.1+	0.2-	1999 01 15	691	0.3-	0.4-	2000 04 07	699	0.0	0.1+
1998 10 11	699	0.2-	0.1-	1999 01 15	691	0.5-	0.2-	2000 04 07	699	0.2-	0.0
1998 10 28	704	0.1+	0.0	2000 01 08	704	0.6+	0.5-	2000 04 07	699	0.2-	0.4+
1998 10 28	704	0.6+	1.0-	2000 01 08	704	1.2-	1.1-	2000 04 08	704	0.1-	0.5+
1998 10 28	704	0.2-	0.5-	2000 01 08	704	0.2+	0.2-	2000 04 08	704	0.2+	0.9+
1998 10 28	704	0.6-	0.5-	2000 01 08	704	0.7+	0.4-	2000 04 08	704	0.5+	0.7+
1998 10 29	704	0.2-	0.3+	2000 01 08	704	0.0	0.9-	2000 04 08	704	0.3+	0.7+
1998 10 29	704	0.2+	0.1-	2000 01 13	699	0.2-	0.5-	2000 04 08	704	0.3+	0.8+
1998 10 29	704	0.2+	0.7-	2000 01 13	699	0.3-	0.1+	2000 04 10	704	0.3+	0.3+
1998 10 29	704	0.2+	0.4-	2000 01 13	699	0.3+	0.2+	2000 04 10	704	0.1-	0.3+
1998 10 29	704	0.4+	0.4-	2000 02 04	106	0.5+	0.7-	2000 04 10	704	0.2-	0.2+
1998 11 10	704	0.2-	1.1+	2000 02 04	106	0.3+	0.5-	2000 04 10	704	0.2-	0.5-
1998 11 10	704	1.0+	0.1-	2000 03 12	704	0.1-	0.4+	2000 04 10	704	0.1-	0.0
1998 11 10	704	0.2-	0.5+	2000 03 12	704	0.5-	0.1+	2000 04 13	608	0.3+	0.4+
1998 11 10	704	0.1-	0.0	2000 03 12	704	0.2-	0.0	2000 04 13	608	0.3+	0.5+
1998 11 11	704	0.5-	0.6+	2000 03 12	704	0.5-	0.2-	2000 04 13	608	0.3+	0.1+

1998 SQ₇₁ = 2000 FH₃₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30890836	ω	342.92137	+0.94333773	−0.32898255		
<i>a</i>	2.1672862	Ω	36.37795	+0.31236268	+0.83620065		
<i>e</i>	0.0409842	<i>i</i>	4.19725	+0.11199774	+0.43879261		
<i>P</i>		<i>H</i>		<i>G</i>		<i>U</i>	
	3.19		16.1		0.15		4
Residuals in seconds of arc							
1997 05 05	691	0.1+	0.3+	1998 10 28	704	1.7−	1.5+
1997 05 05	691	0.1+	0.3+	1998 10 28	704	0.3−	0.4+
1997 05 05	691	0.0	0.1+	1998 10 29	704	0.4−	1.0+
1998 09 21	809	0.5−	1.7+	1998 10 29	704	1.5+	0.3−
1998 09 21	809	1.4−	0.1+	1998 10 29	704	0.1+	0.1+
1998 09 21	809	(2.2−	1.2+)	1998 10 29	704	0.7+	0.1−
1998 09 23	809	0.6+	0.5−	2000 03 27	699	0.1+	0.1−
1998 09 23	809	1.4−	0.3−	2000 03 27	699	0.1+	0.1+
1998 09 23	809	0.5−	0.2+	2000 03 27	699	0.5−	0.5+
1998 10 17	699	0.3+	0.2−	2000 03 27	699	0.0	0.1−
1998 10 17	699	0.3+	0.6−	2000 03 29	704	1.3−	0.2−
1998 10 17	699	0.1−	0.5+	2000 03 29	704	0.9+	0.3+
1998 10 28	704	0.9+	1.7−	2000 03 29	704	0.1+	0.4+
1998 10 28	704	0.7+	0.6+	2000 03 29	704	1.0−	0.0

1998 SH₇₂ = 1972 TC₇ = 2000 EG₁₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26536017	ω	339.98639	+0.92178730	−0.38593765		
<i>a</i>	2.3983481	Ω	42.77407	+0.36268863	+0.82480551		
<i>e</i>	0.2041050	<i>i</i>	3.11325	+0.13698589	+0.41321666		
<i>P</i>		<i>H</i>		<i>G</i>		<i>U</i>	
	3.71		14.7		0.15		3
Residuals in seconds of arc							
1972 10 06	095	0.3+	0.7−	1998 10 29	704	0.2+	0.5+
1998 09 21	809	0.8+	1.4+	1998 10 29	704	1.9+	0.6−
1998 09 21	809	0.5+	1.2+	1998 10 29	704	0.3+	0.2−
1998 09 21	809	0.3−	1.3+	1998 10 29	704	0.4+	0.3+
1998 09 23	809	0.5+	0.1−	1998 11 10	704	0.1+	0.3+
1998 09 23	809	0.4−	0.4+	1998 11 10	704	0.7+	0.3−
1998 09 23	809	0.6−	0.4+	1998 11 10	704	0.7−	0.5−
1998 09 26	704	0.1+	1.2−	1998 11 10	704	0.1+	0.3+
1998 09 26	704	1.1−	1.3−	1998 11 11	704	0.5−	0.5+
1998 09 26	704	0.6−	0.9−	1998 11 11	704	0.6−	0.2+
1998 09 26	704	0.1−	0.1+	1998 11 11	704	0.5−	0.3−
1998 09 26	704	0.2−	0.2−	1998 11 11	704	0.4−	0.0
1998 09 27	704	1.3+	0.5+	1998 11 11	704	1.7−	0.8−
1998 09 27	704	0.9+	0.1−	1998 11 14	699	0.5−	1.2+
1998 09 27	704	0.5+	0.0	1998 11 14	699	0.0	0.7+
1998 09 27	704	0.2+	1.3−	1998 11 14	699	0.1+	0.3+
1998 09 27	704	0.4−	1.1−	1998 11 23	699	0.1−	0.2+
1998 10 28	704	0.3+	0.2−	1998 11 23	699	0.1+	0.1+
1998 10 28	704	0.1−	0.2−	1998 11 23	699	0.6−	0.1+
1998 10 28	704	0.3+	0.3−	1998 12 09	699	0.3−	0.1−
1998 10 28	704	0.9−	0.5−	1998 12 09	699	0.1−	0.0
1998 10 29	704	0.2+	0.4+	1998 12 09	699	1.1+	0.0

1998 SX₇₂ = 2000 ER₁₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29275575	ω	222.42410	−0.11527663	+0.99088973		
<i>a</i>	2.2462897	Ω	41.10021	−0.88057946	−0.06950097		
<i>e</i>	0.1571322	<i>i</i>	6.08053	−0.45966413	−0.11535662		
<i>P</i>		<i>H</i>		<i>G</i>		<i>U</i>	
	3.37		14.8		0.15		4

Residuals in seconds of arc

1998 09 18	699	0.3+	0.9+	1998 11 10	704	0.9+	0.3+	1998 11 22	621	0.0	0.0
1998 09 18	699	(0.7+	2.6+)	1998 11 10	704	0.5−	0.5+	1998 11 22	621	0.2−	0.5−
1998 09 18	699	1.0+	2.0+	1998 11 10	704	0.3−	0.1+	1998 11 22	621	0.0	0.5−
1998 09 21	809	1.2−	1.4−	1998 11 11	704	0.5+	0.5−	1998 11 22	621	0.2−	0.5−
1998 09 21	809	1.7−	1.4−	1998 11 11	704	(2.1+	1.5+)	1998 11 22	621	0.1−	0.4−
1998 09 21	809	1.8−	1.0−	1998 11 11	704	0.1−	0.9−	1998 11 22	621	0.2−	0.6−
1998 09 23	809	1.7+	0.5−	1998 11 11	704	0.9−	0.8+	2000 03 02	703	0.0	0.9−
1998 09 23	809	0.0	1.2−	1998 11 11	704	1.4+	0.9−	2000 03 02	703	0.3+	0.5−
1998 09 23	809	0.5+	0.5−	1998 11 19	621	0.1+	0.7+	2000 03 02	703	0.8+	1.1−
1998 10 15	704	1.1+	1.2+	1998 11 19	621	0.1+	0.5+	2000 03 02	703	0.0	0.3+
1998 10 15	704	0.5+	1.0+	1998 11 19	621	0.1−	0.7+	2000 03 04	704	0.7−	0.4+
1998 10 15	704	0.7+	0.9+	1998 11 20	621	0.2−	0.0	2000 03 04	704	0.3+	0.6+
1998 10 15	704	0.4+	0.3+	1998 11 20	621	0.1+	0.1−	2000 03 04	704	0.0	0.0
1998 10 15	704	(4.3−	0.2+)	1998 11 21	621	0.2−	0.3−	2000 03 04	704	1.1−	0.1+
1998 11 10	704	0.9−	1.1+	1998 11 22	621	0.1−	0.1−	2000 03 04	704	0.2+	0.8+
1998 11 10	704	0.8−	0.2+	1998 11 22	621	0.2−	0.3−				

1998 SK₇₃ = 2000 DD₆₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28841839	ω	156.61866	+0.57192021	+0.81924941		
<i>a</i>	2.2687541	Ω	148.21979	−0.76456150	+0.55077776		
<i>e</i>	0.0142683	<i>i</i>	4.53972	−0.29724228	+0.15960660		
<i>P</i>		<i>H</i>		<i>G</i>		<i>U</i>	
	3.42		14.9		0.15		4
Residuals in seconds of arc							
1998 09 21	809	0.2+	0.5+	2000 02 11	704	0.8−	0.1+
1998 09 21	809	0.5−	0.4−	2000 02 11	704	0.7+	0.6−
1998 09 21	809	1.2−	0.5−	2000 02 11	704	0.1−	0.0
1998 09 23	809	(1.4+	2.3+)	2000 02 11	704	0.1+	0.2−
1998 09 23	809	(1.1+	3.1+)	2000 02 16	703	0.7+	0.1−
1998 09 23	809	1.3+	0.8+	2000 02 16	703	0.0	0.1+
1998 09 26	704	0.4+	0.1−	2000 02 16	703	0.9−	0.7−
1998 09 26	704	(1.6−	2.2−)	2000 02 16	703	0.1−	0.1−
1998 09 26	704	0.6−	0.8−	2000 02 26	703	0.2+	0.3+
1998 09 26	704	0.2+	1.8−	2000 02 26	703	0.6+	0.6−
1998 09 26	704	0.1−	0.4+	2000 02 26	703	0.1+	1.4+
1998 09 27	704	0.8−	0.3−	2000 02 26	703	0.7+	1.9+
1998 09 27	704	0.3+	1.8+	2000 02 29	704	1.4−	0.6+
1998 09 27	704	0.8−	1.2+	2000 02 29	704	0.0	0.0
1998 10 20	699	0.7+	1.2−	2000 02 29	704	1.2−	1.4−
1998 10 20	699	0.3−	0.4+	2000 02 29	704	0.2−	0.7−
1998 10 20	699	0.9+	0.4+	2000 02 29	704	0.7−	1.1−
2000 02 11	704	0.3+	0.1−	2000 03 03	704	0.6+	0.2+

1998 SN₇₃ = 2000 GL₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30310093	ω	352.83984	+0.45820348	−0.88793827		
<i>a</i>	2.1948821	Ω	69.88201	+0.81760887	+0.40331247		
<i>e</i>	0.0788748	<i>i</i>	2.45306	+0.34866216	+0.22114403		
<i>P</i>		<i>H</i>		<i>G</i>		<i>U</i>	
	3.25		15.3		0.15		3
Residuals in seconds of arc							
1995 11 17	327	0.0	0.5−	1998 10 11	699	0.5−	0.3+
1995 11 17	327	0.1+	0.4−	1998 10 11	699	1.3−	0.5−
1998 09 21	809	(0.1+	2.7+)	1998 10 28	704	0.0	0.1−
1998 09 21	809	(0.4−	2.2+)	1998 10 28	704	0.2+	0.0
1998 09 21	809	0.0	1.8+	1998 10 28	704	0.7−	0.9+
1998 09 23	809	(6.4−	1.9+)	1998 10 28	704	0.1−	0.5+
1998 09 23	809	(7.3−	2.3+)	1998 10 29	704	0.8+	0.8−
1998 09 23	809	(8.4−	1.6+)	1998 10 29	704	1.3+	1.0−
1998 09 26	704	0.3−	0.5−	1998 10 29	704	0.5+	0.5−
1998 09 26	704	0.1−	0.3−	1998 10 29	704	1.3−	1.5−
				2000 03 09	704	0.1+	0.9+
				2000 03 09	704	0.5+	0.2−
				2000 03 09	704	1.0+	0.8+
				2000 03 09	704	0.5−	0.7+
				2000 04 07	704	0.2+	0.0
				2000 04 07	704	0.0	0.3−
				2000 04 07	704	0.4−	0.3−
				2000 04 07	704	0.0	0.1−
				2000 04 08	704	0.3+	0.6−
				2000 04 08	704	0.2+	1.0+

2000 APR. 18

M.P.C. 40009

1998 09 26	704	1.2+	0.6−	1998 10 29	704	0.4+	1.3−	2000 04 08	704	1.4+	0.4−
1998 09 26	704	1.7−	0.0	1998 11 10	704	1.6+	0.8+	2000 04 08	704	0.1−	0.5+
1998 09 26	704	0.1−	0.7−	1998 11 10	704	0.9+	1.2+	2000 04 08	704	0.4−	0.0
1998 09 27	704	0.6+	0.1+	1998 11 10	704	0.9+	0.3+	2000 04 10	704	0.5−	0.3+
1998 09 27	704	1.5−	0.8+	1998 11 10	704	0.0	1.9+	2000 04 10	704	0.0	0.1+
1998 09 27	704	0.1+	0.2+	1998 11 11	704	0.2+	0.5−	2000 04 10	704	0.3−	0.3+
1998 09 27	704	0.4−	0.0	1998 11 11	704	0.4−	0.8+	2000 04 10	704	0.1−	0.3+
1998 09 27	704	0.1−	0.8+	1998 11 11	704	0.0	1.3+	2000 04 10	704	0.2+	0.7+
1998 10 11	699	0.6−	0.6+	1998 11 11	704	1.0−	0.2+				

1998 SM₇₄ = 1979 QO₄ = 1979 QC₅ = 2000 EB₁₁₄

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.48583		(2000.0)	P	Q		
<i>n</i>	0.26490684	<i>ω</i>	328.73467	−0.03252596	−0.99828630		
<i>a</i>	2.4010835	<i>Ω</i>	123.08720	+0.92856654	−0.04818840		
<i>e</i>	0.1693707	<i>i</i>	3.32860	+0.36973808	+0.03320167		
<i>P</i>	3.72	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 08 23	809	(9.5−	4.6+)	1998 10 11	699	0.9+	1.2+	1998 11 25	699	0.3+	0.4+
1979 08 23	809	(7.2−	4.8+)	1998 10 11	699	0.0	0.5+	2000 03 09	704	1.4+	0.5+
1979 08 26	809	(2.9−	2.9+)	1998 10 11	699	0.5−	0.8+	2000 03 09	704	0.7+	0.3+
1996 06 06	327	1.0−	1.2−	1998 10 20	699	0.7−	0.8+	2000 03 09	704	0.2+	0.1−
1996 06 06	327	0.3+	0.5−	1998 10 20	699	0.4−	0.3+	2000 03 09	704	0.4+	0.2+
1996 06 06	327	0.3−	1.1−	1998 10 20	699	1.0−	1.0+	2000 03 14	703	0.1−	0.1−
1998 09 18	699	0.7−	1.0+	1998 10 28	704	0.2+	0.7+	2000 03 14	703	0.4+	0.3−
1998 09 18	699	0.2−	0.6+	1998 10 28	704	0.2−	0.2+	2000 03 14	703	0.6−	0.2−
1998 09 18	699	0.6−	1.1+	1998 10 28	704	0.0	0.4−	2000 03 14	703	0.5−	0.2+
1998 09 21	809	1.2+	0.5−	1998 10 28	704	0.9−	0.3+	2000 04 07	704	0.3+	0.4−
1998 09 21	809	0.9+	0.8−	1998 10 29	704	0.1−	0.1−	2000 04 07	704	0.3−	0.4−
1998 09 21	809	0.2+	0.2−	1998 10 29	704	0.5−	0.8+	2000 04 07	699	0.5−	0.4+
1998 09 23	809	1.8+	1.1−	1998 10 29	704	0.0	0.5+	2000 04 07	704	0.9−	0.2+
1998 09 23	809	1.3+	1.4−	1998 10 29	704	0.1−	0.5+	2000 04 07	699	1.3−	0.2+
1998 09 23	809	0.7+	1.2−	1998 10 29	704	0.5−	0.9+	2000 04 07	699	0.6−	0.5+
1998 09 26	704	0.2−	0.5+	1998 11 10	704	0.1+	0.5−	2000 04 07	704	0.3+	0.1+
1998 09 26	704	0.5+	1.0−	1998 11 10	704	0.7+	0.1−	2000 04 07	699	0.7−	0.2−
1998 09 26	704	0.9−	0.5−	1998 11 10	704	0.8+	0.2−	2000 04 07	704	0.5+	0.1+
1998 09 26	704	0.1−	0.7−	1998 11 10	704	1.0+	0.7+	2000 04 08	704	0.3−	0.6−
1998 09 26	704	0.6−	0.7−	1998 11 11	704	0.2−	0.9−	2000 04 08	704	0.5+	0.1−
1998 09 27	704	0.2+	0.4+	1998 11 11	704	1.0+	0.4−	2000 04 08	704	0.3+	0.3+
1998 09 27	704	1.3−	0.7+	1998 11 11	704	0.7+	1.3−	2000 04 08	704	0.3+	0.7+
1998 09 27	704	0.3+	0.1+	1998 11 11	704	0.7−	1.2−	2000 04 08	704	0.9+	0.3+
1998 09 27	704	0.7−	0.7−	1998 11 25	699	0.9−	0.1+				
1998 09 27	704	0.3−	1.0−	1998 11 25	699	0.1−	0.4−				

1998 SL₈₁ = 2000 CN₉₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	36.26550		(2000.0)	P	Q		
<i>n</i>	0.26558095	<i>ω</i>	329.86510	−0.45875120	−0.88843747		
<i>a</i>	2.3970188	<i>Ω</i>	147.43465	+0.82072046	−0.43015032		
<i>e</i>	0.1393484	<i>i</i>	1.60112	+0.34053672	−0.16015481		
<i>P</i>	3.71	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 12 25	566	0.3−	0.0	2000 02 11	704	0.0	0.1−	2000 03 03	704	0.2−	0.5−
1995 12 25	566	0.4+	0.3+	2000 02 11	704	0.2−	0.3−	2000 03 06	608	0.3−	0.6+
1995 12 25	566	0.0	0.1+	2000 02 11	704	0.3−	0.0	2000 03 06	608	0.6−	0.8−
1998 09 26	704	0.1+	1.3−	2000 02 11	704	0.3+	0.2−	2000 03 06	608	0.5−	0.6−
1998 09 26	704	0.4+	0.8+	2000 02 11	704	0.3−	0.9+	2000 03 11	699	0.3−	0.3+
1998 09 26	704	0.3+	1.5−	2000 02 16	703	0.2−	0.0	2000 03 11	699	0.5−	0.2−
1998 09 26	704	(2.9−	0.6+)	2000 02 16	703	0.5+	0.8−	2000 03 11	699	0.6−	0.2+
1998 09 27	704	0.8+	0.5+	2000 02 16	703	0.2+	0.3+	2000 03 11	699	0.3−	0.0
1998 09 27	704	0.3+	0.7−	2000 02 16	703	1.0+	0.4−	2000 04 02	699	0.4+	0.3−
1998 09 27	704	1.4+	0.5+	2000 02 26	703	0.6+	0.7−	2000 04 02	699	0.5−	0.3−

1998 09 27	704	1.0−	0.2−	2000 02 26	703	1.7+	1.1+	2000 04 02	699	0.4−	0.4−
1998 09 27	704	0.1−	1.4−	2000 02 26	703	(2.4−	0.3+)	2000 04 02	699	0.6−	0.4−
1998 10 18	910	0.3−	0.6+	2000 02 26	703	0.2−	0.2+	2000 04 05	704	0.7+	0.1−
1998 10 18	910	0.4−	0.6+	2000 02 29	704	0.1−	0.1+	2000 04 05	704	0.0	0.5+
1998 10 18	910	0.8−	0.6+	2000 02 29	704	0.2−	0.0	2000 04 05	704	0.3−	0.4+
2000 01 04	704	0.4−	0.8−	2000 02 29	704	0.2−	0.4+	2000 04 05	704	0.1+	0.2+
2000 01 04	704	0.4+	0.6+	2000 02 29	704	0.1+	0.0	2000 04 05	704	0.7+	0.0
2000 01 04	704	0.1−	1.0+	2000 02 29	704	0.2+	0.3−	2000 04 05	704	0.5−	0.3+
2000 02 06	704	0.2+	0.2−	2000 03 03	704	0.2+	1.6+	2000 04 05	704	0.1+	0.4+
2000 02 06	704	0.6−	0.7−	2000 03 03	704	0.0	0.3−	2000 04 05	704	0.6+	0.2+
2000 02 06	704	0.1−	0.5−	2000 03 03	704	0.1+	0.4−				
2000 02 06	704	0.1+	1.0−	2000 03 03	704	0.1−	0.4−				

1998 SU₈₁ = 2000 CT₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	190.17760		(2000.0)	P	Q		
<i>n</i>	0.30093740	<i>ω</i>	334.14188	+0.71113868	+0.70290917		
<i>a</i>	2.2053893	<i>Ω</i>	341.17471	−0.63718595	+0.63587363		
<i>e</i>	0.1674797	<i>i</i>	2.51486	−0.29711251	+0.31872155		
<i>P</i>	3.28	<i>H</i>	17.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	0.2−	0.2+	1998 09 27	704	0.5+	0.5+	2000 02 10	691	0.1+	0.2+
1998 09 26	704	0.5−	0.9−	1998 09 27	704	0.1−	0.1+	2000 02 10	691	0.4−	0.1−
1998 09 26	704	0.4+	0.8−	1998 09 27	704	0.4+	0.5−	2000 02 14	691	0.1−	0.5+
1998 09 26	704	0.7−	0.1−	1998 09 29	327	0.2−	0.0	2000 02 14	691	0.2+	0.7−
1998 09 26	704	1.6+	0.1−	1998 09 29	327	0.9−	0.8+	2000 02 14	691	0.3+	0.2−
1998 09 27	704	0.5+	0.3+	1998 09 29	327	0.3−	0.0				
1998 09 27	704	0.4−	0.5+	2000 02 10	691	0.1−	0.2+				

1998 SK₉₂ = 2000 EK₁₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	147.21082		(2000.0)	P	Q		
<i>n</i>	0.28393884	<i>ω</i>	142.87729	+0.99055558	−0.13347305		
<i>a</i>	2.2925537	<i>Ω</i>	224.82526	+0.11267375	+0.92280706		
<i>e</i>	0.1694515	<i>i</i>	2.55115	+0.07812981	+0.36140293		
<i>P</i>	3.47	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.1−	0.3−	1998 10 14	699	0.6+	0.8+	2000 03 03	704	0.9+	0.3+
1998 09 26	704	0.2+	0.9−	1998 10 14	699	0.1−	0.2+	2000 03 03	704	0.4+	0.2+
1998 09 26	704	0.1+	0.4−	1998 10 28	704	0.6−	0.3+	2000 03 03	704	1.3+	0.5−
1998 09 26	704	0.7+	0.8−	1998 10 28	704	0.2+	0.8+	2000 03 03	704	0.6−	1.0+
1998 09 26	704	0.8+	1.2−	1998 10 28	704	1.1+	0.0	2000 03 03	704	0.3+	0.1+
1998 09 27	704	0.7−	0.1+	1998 10 28	704	1.3−	1.1−	2000 03 05	608	0.3+	0.0
1998 09 27	704	0.2−	0.5+	1998 10 29	704	0.5+	0.7+	2000 03 05	608	0.4+	0.5−
1998 09 27	704	1.1−	0.8+	1998 10 29	704	(1.0+	2.2+)	2000 03 05	608	0.1+	0.6−
1998 09 27	704	0.2−	0.3+	1998 10 29	704	0.5+	0.8+	2000 03 11	704	1.0−	0.4−
1998 09 27	704	0.1−	0.3+	1998 10 29	704	0.1−	0.3−	2000 03 11	704	0.8−	0.1+
1998 10 14	699	0.5+	0.4−	1998 10 29	704	0.4−	0.7−	2000 03 11	704	1.5−	0.2−

1998 SZ₉₉ = 2000 EZ₈₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT =

M.P.C. 40010

1998 09 26	704	0.4+	0.6-	1998 12 09	704	(3.2-	1.5-)	2000 03 09	704	0.2-	0.1-
1998 09 26	704	1.6-	0.2-	1998 12 09	704	1.2+	1.1+	2000 03 09	704	0.2-	0.0
1998 09 26	704	0.1+	0.7-	2000 01 10	704	0.1+	0.5+	2000 03 13	704	0.3-	0.2-
1998 09 26	704	0.4-	0.4+	2000 01 10	704	0.0	0.4+	2000 03 13	704	0.1-	0.0
1998 09 27	704	0.2+	0.8+	2000 01 10	704	0.9+	1.0-	2000 03 13	704	0.0	0.4+
1998 09 27	704	1.5-	0.7+	2000 01 10	704	0.1-	0.4-	2000 03 13	704	0.3+	0.3-
1998 09 27	704	(2.3-	2.5+)	2000 01 10	704	0.6-	1.1-	2000 03 13	704	0.1-	0.2-
1998 09 27	704	(2.5-	2.4+)	2000 02 10	704	0.1+	0.5+	2000 03 28	608	0.2+	1.9-
1998 09 27	704	(2.3-	1.9+)	2000 02 10	704	0.6+	0.1-	2000 03 28	608	0.1-	0.1+
1998 10 28	704	0.2-	0.5-	2000 02 10	704	0.5+	1.1+	2000 03 28	608	0.0	1.3-
1998 10 28	704	0.7+	1.7-	2000 03 03	703	0.0	0.2-	2000 04 04	704	0.0	0.5+
1998 10 28	704	0.4+	0.9-	2000 03 03	703	0.1+	0.2+	2000 04 04	704	0.4+	1.0+
1998 10 28	704	0.1-	1.3-	2000 03 03	703	0.4+	0.5-	2000 04 04	704	0.1+	1.9+
1998 10 29	704	0.2-	0.4-	2000 03 03	703	0.2+	0.2-	2000 04 04	704	0.5+	1.0+
1998 10 29	704	0.4+	0.5+	2000 03 06	608	(0.4-	3.1-)	2000 04 04	704	(0.2+	3.1+)
1998 10 29	704	1.1+	0.2+	2000 03 06	608	0.5-	0.4-				

1998 SO₁₀₁ = 2000 GS₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	102.28985		(2000.0)		P		Q
n	0.28460307	ω	76.41253		+0.36046780		-0.93275695
a	2.2889852	Ω	352.45231		+0.83964413		+0.32691953
e	0.1500469	i	2.28535		+0.40627663		+0.15194765
P	3.46	H	15.9	G	0.15	U	4

Residuals in seconds of arc

1998 09 26	704	0.0	0.3-	1998 10 16	684	0.3-	0.4+	2000 04 05	704	0.6+	0.3+
1998 09 26	704	0.4+	1.0+	1998 10 16	684	0.5-	0.8+	2000 04 05	704	1.6+	0.9+
1998 09 26	704	0.7+	0.6-	1998 10 17	684	0.6-	0.7+	2000 04 05	704	1.4-	0.5+
1998 09 26	704	0.2-	0.4-	1998 10 17	684	0.4-	0.5+	2000 04 05	704	0.6+	0.0
1998 09 26	704	0.2-	1.1-	1998 12 13	704	0.2+	1.9-	2000 04 05	704	0.1+	0.0
1998 09 27	704	0.3-	1.1+	1998 12 13	704	0.1+	0.5+	2000 04 06	704	0.3+	0.3+
1998 09 27	704	0.5+	0.7+	1998 12 13	704	0.7-	0.7+	2000 04 06	704	0.4+	0.9+
1998 09 27	704	1.1-	0.4+	1998 12 13	704	0.9-	0.8+	2000 04 06	704	0.3-	0.6+
1998 09 27	704	0.1+	0.0	1998 12 13	704	0.9-	1.4-	2000 04 06	704	0.4-	0.3+
1998 09 27	704	0.7+	0.2-	1998 12 13	704	1.9+	1.2+	2000 04 06	704	0.1+	0.3-

1998 SM₁₀₆ = 2000 GV₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	51.68867		(2000.0)		P		Q
n	0.29936736	ω	109.29460		-0.63847225		-0.76900285
a	2.2130934	Ω	20.48284		+0.66811838		-0.57405854
e	0.1560828	i	5.15309		+0.38206155		-0.28123196
P	3.29	H	14.8	G	0.15	U	4

Residuals in seconds of arc

1998 09 12	691	0.3+	0.6-	1998 10 19	699	0.7-	0.5+	2000 04 06	704	0.2-	0.7-
1998 09 12	691	0.3+	0.7-	1998 10 19	699	0.2+	0.2+	2000 04 06	704	0.6-	0.4-
1998 09 12	691	0.4+	0.6-	1998 10 19	699	0.4+	0.8+	2000 04 06	704	0.1-	0.5-
1998 09 25	699	0.0	0.4+	1998 11 11	699	0.8-	1.4+	2000 04 06	704	0.0	0.4+
1998 09 25	699	0.3+	0.2+	1998 11 11	699	0.7+	0.5-	2000 04 06	704	0.6-	0.3-
1998 09 25	699	0.1+	1.1+	1998 11 11	699	1.5-	0.6-	2000 04 06	704	0.1+	0.2-
1998 09 26	704	0.4-	0.1-	2000 03 01	703	0.2+	0.2+	2000 04 06	704	0.1-	0.3+
1998 09 26	704	0.4-	1.0-	2000 03 01	703	0.5+	0.1+	2000 04 06	704	0.0	0.3+
1998 09 26	704	1.5-	0.7+	2000 03 01	703	0.7+	0.3+	2000 04 06	704	0.1-	0.2-
1998 09 26	704	1.0+	0.9-	2000 03 01	703	0.1+	0.1+	2000 04 08	704	0.4+	0.9+
1998 09 26	704	0.4-	1.1-	2000 03 12	699	0.8+	1.1+	2000 04 08	704	0.3-	0.4-
1998 09 27	704	0.6+	0.5-	2000 03 12	699	0.7+	0.5+	2000 04 08	704	0.5+	0.6+
1998 09 27	704	0.7-	0.8+	2000 03 12	699	0.0	0.2+	2000 04 08	704	0.3+	0.9+
1998 09 27	704	0.9-	0.5+	2000 03 12	699	0.4-	1.0+	2000 04 08	704	0.6-	0.7+
1998 09 27	704	0.2+	0.8+	2000 04 05	704	0.7+	0.4+	2000 04 12	608	0.1+	0.9-
1998 09 27	704	0.3-	1.0+	2000 04 05	704	0.2+	0.3+	2000 04 12	608	0.4-	0.4-
1998 10 14	699	0.3+	0.0	2000 04 05	704	0.3-	0.2-	2000 04 12	608	0.2-	0.3-
1998 10 14	699	0.6+	0.6+	2000 04 05	704	0.0	0.5-				
1998 10 14	699	0.5+	0.2+	2000 04 06	704	0.1+	0.0				

2000 APR. 18

1998 SV₁₀₇ = 2000 BS₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	104.40157		(2000.0)		P		Q
n	0.17209007	ω	354.64297		+0.98415191		+0.17692516
a	3.2010971	Ω	355.11755		-0.15704162		+0.83832308
e	0.1885576	i	8.06298		-0.08235870		+0.51566647
P	5.73	H	13.9	G	0.15	U	4

Residuals in seconds of arc

1998 09 15	699	0.4-	0.8+	1998 09 27	704	1.2+	0.0	1998 10 29	704	(1.8+	2.6+)
1998 09 15	699	0.4-	0.2+	1998 09 27	704	0.2+	0.2-	1998 10 29	704	0.8-	0.4+
1998 09 15	699	0.0	0.6+	1998 09 27	704	0.8-	0.1-	2000 01 29	704	1.4-	1.5-
1998 09 26	704	0.1+	0.3-	1998 10 28	704	0.0	0.4+	2000 01 29	704	0.1-	0.1+
1998 09 26	704	0.6-	0.4-	1998 10 28	704	0.1+	0.4-	2000 01 29	704	0.7+	0.2+
1998 09 26	704	0.4-	0.7-	1998 10 28	704	0.1-	0.4-	2000 01 29	704	0.6-	0.9+
1998 09 26	704	0.7+	0.4-	1998 10 28	704	(2.3-	1.4+)	2000 01 30	704	0.2+	0.7+
1998 09 26	704	0.1-	0.6-	1998 10 29	704	0.6+	0.3+	2000 01 30	704	0.3+	0.2+
1998 09 27	704	0.7+	0.2+	1998 10 29	704	(2.3+	2.5+)	2000 01 30	704	0.8+	0.6-
1998 09 27	704	0.4+	0.4+	1998 10 29	704	0.3-	0.4+				

1998 SK₁₀₈ = 2000 GP₁₀₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	67.02904		(2000.0)		P		Q
n	0.31124118	ω	240.83504		-0.33373313		-0.94112972
a	2.1564431	Ω	228.76288		+0.88783918		-0.29462053
e	0.0276627	i	4.10451		+0.31680244		-0.16575161
P	3.17	H	15.3	G	0.15	U	2

Residuals in seconds of arc

1992 11 26	691	0.3+	0.3-	1998 10 28	704	1.0-	0.1-	2000 04 07	704	0.2+	0.3+
1992 11 26	691	0.2-	0.0	1998 10 28	704	0.2+	1.0-	2000 04 07	704	0.0	0.4+
1992 11 26	691	0.1-	0.5-	1998 10 29	704	0.2-	0.4-	2000 04 07	704	0.7-	0.7+
1998 09 26	704	0.2+	0.4-	1998 10 29	704	1.0-	0.3-	2000 04 07	704	0.9-	0.6-
1998 09 26	704	0.7+	0.1+	1998 10 29	704	0.9-	0.1-	2000 04 08	704	0.7+	1.0-
1998 09 26	704	0.4+	0.3+	1998 10 29	704	1.0-	1.2+	2000 04 08	704	0.4+	0.5+
1998 09 26	704	0.2+	0.9-	2000 03 03	703	0.5+	0.6+	2000 04 08	704	0.2-	0.3+
1998 09 26	704	0.8+	0.8-	2000 03 03	703	0.3+	0.6+	2000 04 08	704	0.2+	0.5-
1998 09 27	704	0.7+	0.6+	2000 03 03	703	0.3+	0.4+	2000 04 08	704	0.7+	0.1-
1998 09 27	704	0.7+	0.1-	2000 03 03	703	0.2+	0.9+	2000 04 10	704	0.1+	0.6-
1998 09 27	704	1.0+	1.9+	2000 03 27	699	0.4-	0.2+	2000 04 10	704	0.2+	0.1-
1998 09 27	704	0.4-	0.4-	2000 03 27	699	0.3-	0.2+	2000 04 10	704	0.3-	0.4-
1998 09 27	704	0.7-	1.1+	2000 03 27	699	0.3-	0.2+	2000 04 10	704	0.3-	0.7-
1998 10 28	704	0.6-	1.3+	2000 03 27	699	0.5-	0.2+	2000 04 10	704	0.1-	0.8-
1998 10 28	704	0.6+	1.2-	2000 04 07	704	0.4+	0.2+				

1998 SL₁₁₀ = 1988 VN₁₃ = 2000 GN₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	146.19801		(2000.0)		P		Q
n	0.29261494	ω	101.21552		+0.94406279		-0.32772428
a	2.2470103	Ω	277.92318		+0.28628458		+0.86964932
e	0.1152355	i	2.11983		+0.16366607		+0.36919757
P	3.37	H	15.3	G	0.15	U	2

Residuals in seconds of arc

1988 11 04	327	0.0	0.1+	1998 09 27	704	(0.8-	2.2+)	2000 02 26	621	0.1-	0.4-
1988 11 04	327	0.3-	0.6+	1998 09 27	704	1.5-	1.6+	2000 02 26	621	0.3-	0.2-
1991 09 08	691	0.2-	0.5+	1998 09 27	704	0.1-	0.6+	2000 03 11	704	1.1-	0.2-
1991 09 08	691	0.2-	0.4+	1998 10 28	704	1.2+	0.9-	2000 03 11	704	0.2+	0.5-
1991 09 08	691	0.1-	0.6+	1998 10 28	704	0.5+	0.5+	2000 03 11	704	0.5+	1.3+
1998 09 17	699	2.0+	0.6+	1998 10 28	704	1.1+	0.9-	2000 03 11	704	0.2-	1.4+
1998 09 17	699	0.3+	0.5+	1998 10 28	704	0.0	1.0-	2000 03 11	704	0.3+	1.3+
1998 09 17	699	0.6-	0.0	1998 10 28	704	0.9+	1.0-	2000 04 05	704	0.7+	0.0
1998 09 26	704	0.1-	0.1+	1998 10 29	704	1.2-	0.5-	2000 04 05	704	0.2+	0.3+
1998 09 26	704	0.1-	0.0	1998 10 29	704	0.3-	0.7+	2000 04 05	704	0.4+	0.6+

2000 APR. 18

M.P.C. 40011

1998 09 26	704	0.5+	0.3-	1998 10 29	704	(2.3-	0.2-)	2000 04 05	704	0.1+	0.3+
1998 09 26	704	0.5+	0.1+	1998 10 29	704	0.9-	1.0+	2000 04 05	704	0.2-	0.2+
1998 09 26	704	0.1+	0.4-	1998 10 29	704	1.4-	0.4+	2000 04 06	704	0.2-	0.3+
1998 09 27	704	0.8-	0.4+	2000 02 26	621	0.3-	0.3-	2000 04 06	704	0.6+	0.4+
1998 09 27	704	0.7-	0.4+	2000 02 26	621	0.6+	0.3-	2000 04 06	704	0.7+	0.1+

1998 SM₁₁₁ = 2000 CG₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler

<i>M</i>	332.27746		(2000.0)	P	Q
<i>n</i>	0.27888776	ω	357.43929	-0.99584881	+0.08974264
<i>a</i>	2.3201519	Ω	187.75892	-0.08138146	-0.95270036
<i>e</i>	0.0676601	<i>i</i>	6.46959	-0.04077008	-0.29035889
<i>P</i>	3.53	<i>H</i>	16.3	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1998 09 26	704	0.4-	0.3+	1998 09 27	704	0.6-	1.1+	2000 02 06	704	0.9-	0.4+
1998 09 26	704	0.8+	0.5-	1998 09 27	704	0.1+	0.5+	2000 02 06	704	0.8+	0.3-
1998 09 26	704	1.4+	1.4-	2000 02 02	704	0.6+	0.4+	2000 02 06	704	0.1+	0.1+
1998 09 26	704	1.5-	0.0	2000 02 02	704	0.3+	0.9-	2000 02 06	704	0.3-	1.8+
1998 09 27	704	0.2+	1.8-	2000 02 02	704	0.2+	1.6-	2000 02 06	704	0.2+	0.2-
1998 09 27	704	0.1-	1.9+	2000 02 02	704	1.0-	0.2+				

1998 SF₁₁₇ = 2000 DZ₇₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	147.07804		(2000.0)	P	Q
<i>n</i>	0.28423397	ω	33.42262	+0.96272329	-0.26792650
<i>a</i>	2.2909664	Ω	342.00712	+0.21427348	+0.83921528
<i>e</i>	0.1150776	<i>i</i>	6.90528	+0.16507800	+0.47321571
<i>P</i>	3.47	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.3-	0.1+	1998 10 12	699	0.7+	0.6-	2000 03 03	704	0.8-	0.3-
1998 09 26	704	1.6-	0.6+	1998 10 12	699	1.2+	1.0-	2000 03 11	704	0.2-	0.3+
1998 09 26	704	0.1-	0.2-	2000 02 29	704	1.0+	0.1+	2000 03 11	704	0.3-	0.3+
1998 09 26	704	0.7+	0.9-	2000 02 29	704	0.2-	1.2-	2000 03 11	704	0.5+	0.1-
1998 09 27	704	1.6-	1.4+	2000 02 29	704	(2.3+	0.7-)	2000 03 11	704	0.2-	0.3-
1998 09 27	704	0.4-	0.5+	2000 02 29	704	0.8+	0.6+	2000 03 11	704	0.2+	0.3+
1998 09 27	704	0.6-	0.5-	2000 03 03	704	0.5+	0.0	2000 04 05	704	0.8+	1.0+
1998 09 27	704	0.2-	1.5+	2000 03 03	704	0.3-	0.0	2000 04 05	704	1.1-	0.1-
1998 09 27	704	0.1-	0.7+	2000 03 03	704	0.0	0.3-	2000 04 05	704	1.1-	0.0
1998 10 12	699	1.8+	0.8-	2000 03 03	704	0.7+	0.9+	2000 04 05	704	0.1+	0.2-

1998 SW₁₁₇ = 2000 DW₉₄

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	216.83859		(2000.0)	P	Q
<i>n</i>	0.28670011	ω	297.81456	+0.48103632	+0.87669855
<i>a</i>	2.2778099	Ω	0.94507	-0.75765179	+0.41682026
<i>e</i>	0.0754528	<i>i</i>	6.70864	-0.44109843	+0.24012606
<i>P</i>	3.44	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.1+	0.9+	2000 02 03	704	0.0	1.4-	2000 02 28	704	0.0	1.3+
1998 09 26	704	1.1+	1.3-	2000 02 03	704	0.3+	0.0	2000 03 05	704	0.2-	0.2-
1998 09 26	704	0.2+	0.3+	2000 02 03	704	0.3-	0.4-	2000 03 05	704	0.5+	0.2-
1998 09 26	704	0.6+	1.2+	2000 02 03	704	0.5-	0.5-	2000 03 05	704	0.3-	0.5-
1998 09 27	704	0.4-	0.1-	2000 02 06	703	1.1-	1.0+	2000 03 05	704	0.4+	1.3+
1998 09 27	704	0.6+	1.2+	2000 02 06	703	1.1-	0.4-	2000 03 05	704	0.2+	0.3+
1998 09 27	704	0.3-	0.8+	2000 02 06	703	1.2-	0.2-	2000 03 08	608	0.2+	0.3-
1998 09 27	704	1.2-	0.6+	2000 02 06	703	0.7-	0.8-	2000 03 08	608	0.2+	0.0
1998 09 27	704	0.7-	0.5-	2000 02 11	704	1.1+	0.1-	2000 03 08	608	0.1+	0.2-
1998 10 11	699	0.4+	0.4-	2000 02 11	704	0.1+	0.1-	2000 03 11	699	0.2+	1.0+
1998 10 11	699	0.3-	0.5-	2000 02 11	704	0.5+	0.1-	2000 03 11	699	0.5-	0.1+
1998 10 11	699	0.3+	0.2-	2000 02 11	704	0.1-	0.1-	2000 03 11	699	0.2+	0.4+

1998 10 28	704	0.3-	0.1+	2000 02 11	704	1.1+	0.1-	2000 03 11	699	0.3-	0.1+
1998 10 28	704	0.0	0.8-	2000 02 28	704	0.5+	0.1+	2000 03 12	704	0.1-	0.4+
1998 10 28	704	0.4-	0.4-	2000 02 28	704	0.1-	0.5+	2000 03 12	704	0.7+	0.4-
1998 10 28	704	0.0	0.1-	2000 02 28	704	0.2-	0.6+	2000 03 12	704	0.1-	0.8-
2000 02 03	704	0.2+	0.4-	2000 02 28	704	0.4+	0.9+				

1998 SJ₁₁₈ = 2000 EG₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	25.51972		(2000.0)	P	Q
<i>n</i>	0.21361965	ω	116.15529	-0.63631789	-0.75656248
<i>a</i>	2.7714598	Ω	16.34493	+0.36235923	-0.46560366
<i>e</i>	0.2697247	<i>i</i>	32.37964	+0.68102521	-0.45915841
<i>P</i>	4.61	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 26	704	0.2-	0.0	1998 11 16	566	0.4+	0.3-	2000 03 29	704	0.0	0.4+
1998 09 26	704	0.7+	1.0+	2000 01 06	704	1.8-	0.3-	2000 03 29	704	0.2-	0.1+
1998 09 26	704	0.1-	0.2-	2000 01 06	704	0.8-	0.4-	2000 03 29	704	0.0	0.3+
1998 09 26	704	0.5+	0.7-	2000 01 06	704	0.8-	0.4-	2000 03 29	704	0.0	0.1+
1998 09 26	704	0.1+	0.5+	2000 01 06	704	0.3-	0.1+	2000 03 29	704	0.1+	0.1+
1998 09 27	704	0.1-	1.1+	2000 01 06	704	0.8-	0.4-	2000 04 02	699	0.3+	0.1+
1998 09 27	704	1.4-	1.0+	2000 02 04	704	0.1+	1.0+	2000 04 02	699	0.3+	0.8+
1998 09 27	704	0.3+	0.6+	2000 02 04	704	0.2+	0.6+	2000 04 02	699	0.3+	0.2+
1998 09 27	704	0.4-	0.7+	2000 02 04	704	0.2+	0.3+	2000 04 02	699	0.5+	0.1+
1998 09 27	704	1.4-	0.4-	2000 02 04	704	0.5+	0.4-	2000 04 04	704	0.5+	0.3+
1998 10 14	704	0.5+	0.5+	2000 02 04	704	0.5+	0.7-	2000 04 04	704	0.9+	0.3+
1998 10 14	704	0.6-	0.5-	2000 03 08	608	0.6+	0.1-	2000 04 04	704	0.7+	0.1+
1998 10 14	704	0.1+	0.4-	2000 03 08	608	0.3+	0.0	2000 04 04	704	0.9+	0.1+
1998 10 14	704	0.6+	0.0	2000 03 08	608	0.5+	0.0	2000 04 04	704	0.8+	0.4+
1998 10 15	704	0.7-	0.1+	2000 03 11	699	0.3-	0.2+	2000 04 08	704	0.4+	0.0
1998 10 15	704	0.1-	0.8-	2000 03 11	699	0.4-	0.0	2000 04 08	704	0.2+	0.3+
1998 10 15	704	1.1-	0.9-	2000 03 11	699	0.3-	0.0	2000 04 08	704	0.1+	0.1+
1998 10 15	704	0.2-	0.5-	2000 03 11	699	0.4-	0.1+	2000 04 08	704	0.2+	0.3+
1998 10 15	704	0.1-	0.9+	2000 03 12	703	0.1+	0.3+	2000 04 08	704	0.6+	0.3+
1998 10 29	704	0.2-	0.8-	2000 03 12	703	0.1+	0.2+	2000 04 10	704	0.5+	0.1-
1998 10 29	704	1.5-	1.4+	2000 03 12	703	0.1+	0.2+	2000 04 10	704	0.0	0.3-
1998 10 29	704	0.9-	1.2+	2000 03 12	703	0.2+	0.1+	2000 04 10	704	0.1+	0.2-
1998 10 29	704	0.4+	0.6+	2000 03 15	699	0.2-	0.0	2000 04 10	704	0.1-	1.1-
1998 10 29	704	0.8-	0.4+	2000 03 15	699	0.2-	0.1+	2000 04 10	704	0.0	0.1+
1998 11 16	566	0.0	0.1+	2000 03 15	699	0.6-	0.1+				
1998 11 16	566	0.4+	0.8-	2000 03 15	699	0.6-	0.0				

1998 SC₁₁₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	118.46232		(2000.0)	P	Q
<i>n</i>	0.29800294	ω	42.34717	+0.54967963	-0.83490598
<i>a</i>	2.2198435	Ω	14.38094	+0.73305369	+0.46600376
<i>e</i>	0.1081494	<i>i</i>	6.47432	+0.40060529	+0.29286942
<i>P</i>	3.31	<i>H</i>	16.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.6-	1.6+	1998 09 27	704	0.7-	1.0-	2000 03 27	691	0.4-	0.2-
1998 09 26	704	0.2-	1.4-	1998 10 15	327	0.2+	0.3-	2000 03 27	691	0.2-	0.0
1998 09 26	704	0.3+	0.7-	1998 10 15	327	0.1+	0.1+	2000 04 05	704	0.6+	0.2+
1998 09 26	704	0.9+	0.0	1998 10 15	327	0.1-	0.7+	2000 04 05	704	0.0	0.9+
1998 09 26	704	1.4+	0.7+	1998 10 19	327	0.1+	0.0	2000 04 05	704	0.5+	0.9+
1998 09 27	704	0.4-	0.1-	1998 10 19	327	0.5-	0.1-	2000 04 05	704	0.6+	0.8+
1998 09 27	704	0.3+	0.8+	1998 10 19	327	0.8-	0.3+	2000 04 05	704	0.5+	1.1+
1998 09 27	704	1.0-	1.5+	2000 03 27	691	0.3-	1.4-				

1998 SM₁₂₁ = 2000 EY₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28359996	ω	240.67349	−0.75437723	−0.65291947		
<i>a</i>	2.2943796	Ω	258.47709	+0.62375035	−0.68072596		
<i>e</i>	0.0558747	<i>i</i>	3.97392	+0.20457394	−0.33212697		
<i>P</i>	3.48	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.7+	0.0	1998 10 28	704	(2.3−	2.9−)	2000 03 13	704	(2.4−	2.5−)
1998 09 26	704	0.7+	0.9−	1998 10 29	704	(0.4+	2.2+)	2000 03 13	704	1.0−	1.0−
1998 09 26	704	0.3−	0.5−	1998 10 29	704	0.8+	1.2−	2000 04 07	704	0.6+	0.4−
1998 09 26	704	0.6−	0.6−	1998 10 29	704	0.8−	1.1+	2000 04 07	704	1.3+	0.4+
1998 09 26	704	1.0+	0.4−	1998 10 29	704	1.0+	1.1+	2000 04 07	704	0.7+	0.0
1998 09 27	704	0.6+	0.3+	1998 10 29	704	1.4−	0.0	2000 04 07	704	0.5+	0.9+
1998 09 27	704	0.6+	0.9+	2000 03 09	704	0.3−	0.0	2000 04 07	704	0.4+	0.7+
1998 09 27	704	0.3+	0.9+	2000 03 09	704	0.2−	0.1−	2000 04 08	704	0.1+	0.6+
1998 09 27	704	0.2−	0.9+	2000 03 09	704	0.1+	0.2+	2000 04 08	704	0.4+	0.4+
1998 09 27	704	0.5−	0.7+	2000 03 09	704	0.0	0.5+	2000 04 08	704	0.5+	0.6+
1998 10 28	704	1.7−	0.6−	2000 03 09	704	0.1+	0.4+	2000 04 08	704	0.5+	0.5+
1998 10 28	704	(0.8−	2.7−)	2000 03 13	704	0.6−	0.8−	2000 04 10	704	0.5+	0.1−
1998 10 28	704	0.7−	0.3−	2000 03 13	704	1.3−	1.0−	2000 04 10	704	0.6−	0.1+
1998 10 28	704	(2.1−	2.3−)	2000 03 13	704	0.7−	0.6−	2000 04 10	704	0.2−	0.1+

1998 SG₁₂₄ = 2000 EP₁₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17534196	ω	57.72506	+0.19121439	−0.97565903		
<i>a</i>	3.1613954	Ω	22.02498	+0.77645544	+0.08343983		
<i>e</i>	0.2308154	<i>i</i>	16.63594	+0.60046149	+0.20279857		
<i>P</i>	5.62	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 18	699	0.0	1.5−	1998 10 28	704	1.4−	0.2+	2000 03 04	704	0.3−	1.0+
1998 09 18	699	0.7−	0.4−	1998 10 28	704	1.4−	0.1−	2000 03 04	704	1.0−	0.9+
1998 09 18	699	0.3−	0.8−	1998 10 28	704	1.8+	1.9−	2000 03 04	704	0.9−	0.8+
1998 09 26	704	0.9+	0.4+	1998 10 29	704	0.5−	0.1+	2000 03 11	699	0.5+	0.9−
1998 09 26	704	0.5+	0.3−	1998 10 29	704	1.9−	1.3−	2000 03 11	699	1.5+	0.9−
1998 09 26	704	0.2−	0.6+	1998 10 29	704	1.2+	1.4+	2000 03 11	699	0.1−	0.5−
1998 09 26	704	0.3+	0.8+	1998 10 29	704	0.6−	0.4−	2000 03 11	699	0.5+	0.7−
1998 09 26	704	0.1−	0.6+	1998 11 10	699	0.3−	1.2+	2000 03 12	704	0.3−	0.1−
1998 09 27	704	0.8+	0.9−	1998 11 10	699	0.1+	1.4−	2000 03 12	704	1.3+	0.1+
1998 09 27	704	0.7−	1.4+	1998 11 10	699	1.0+	0.2+	2000 03 12	704	0.2−	0.2+
1998 09 27	704	0.6+	0.2+	2000 01 31	704	0.3−	0.4−	2000 03 12	704	0.4+	1.1+
1998 09 27	704	0.4+	1.5+	2000 01 31	704	0.2−	0.5−	2000 03 12	704	0.2−	0.3+
1998 09 27	704	0.0	0.1−	2000 01 31	704	0.3−	0.1+				
1998 10 28	704	0.4+	0.5+	2000 01 31	704	0.3−	0.3−				

1998 SH₁₂₄ = 2000 GQ₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27173254	ω	25.33493	+0.59329584	−0.80336010		
<i>a</i>	2.3607044	Ω	28.35779	+0.71903241	+0.50032885		
<i>e</i>	0.1610791	<i>i</i>	6.17772	+0.36192877	+0.32292970		
<i>P</i>	3.63	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 04 25	691	0.1+	0.3+	1998 10 19	691	0.6−	0.1−	2000 03 08	704	0.8+	0.7+
1993 04 25	691	0.8−	1.0−	1998 10 27	691	0.1+	0.0	2000 03 08	704	0.2−	0.4+
1993 04 25	691	0.3+	0.1−	1998 10 27	691	0.4+	0.1−	2000 03 08	704	1.0+	0.4−
1998 09 18	699	0.5−	0.1+	1998 10 27	691	0.5+	0.0	2000 04 04	704	0.3+	1.5+
1998 09 18	699	0.3−	0.9+	1998 10 28	704	0.1−	1.5+	2000 04 04	704	0.1+	0.1+
1998 09 18	699	0.7−	0.1−	1998 10 28	704	0.1−	0.9−	2000 04 04	704	0.6−	0.6+
1998 09 26	704	0.3−	0.7+	1998 10 28	704	0.1−	0.2−	2000 04 04	704	0.7−	0.6−
1998 09 26	704	0.1+	0.4+	1998 10 28	704	0.1+	0.7−	2000 04 07	699	0.8+	0.8+

1998 09 26	704	0.2+	0.5−	1998 10 28	704	0.3−	0.6−	2000 04 07	699	1.4+	0.6+
1998 09 26	704	0.5−	0.8+	1998 10 29	704	0.3−	0.5+	2000 04 07	699	0.7+	0.2+
1998 09 26	704	1.2−	1.0+	1998 10 29	704	0.6−	0.4+	2000 04 07	699	0.9−	0.8+
1998 09 27	704	0.7−	0.1+	1998 10 29	704	0.4+	0.3+	2000 04 08	704	0.1−	0.2+
1998 09 27	704	0.5−	0.7+	1998 10 29	704	0.3−	0.2−	2000 04 08	704	0.2−	0.1+
1998 09 27	704	0.4+	0.1+	1998 10 29	704	0.4+	0.9−	2000 04 08	704	0.4−	0.7+
1998 09 27	704	1.4−	0.7+	1998 11 23	699	0.3+	0.7+	2000 04 08	704	0.1−	0.9+
1998 09 27	704	0.1−	0.3−	1998 11 23	699	0.9+	0.9−	2000 04 08	704	0.8+	0.0
1998 10 10	699	0.9+	0.4+	1998 11 23	699	0.0	0.1+	2000 04 10	704	0.7+	0.3+
1998 10 10	699	0.2+	0.4+	1998 12 09	699	1.0+	0.4+	2000 04 10	704	0.1+	0.7−
1998 10 10	699	1.1+	0.2+	1998 12 09	699	1.5+	0.6−	2000 04 10	704	0.3+	0.1−
1998 10 19	691	0.7−	0.1+	1998 12 09	699	0.3+	0.3−	2000 04 10	704	0.0	0.6−
1998 10 19	691	0.9−	0.0	2000 03 08	704	0.1+	0.9+	2000 04 10	704	0.6−	0.5−

1998 SK₁₂₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27155180	ω	61.59248	−0.15596587	−0.98686251		
<i>a</i>	2.3617518	Ω	37.45498	+0.88027321	−0.15822748		
<i>e</i>	0.1295894	<i>i</i>	3.97482	+0.44810012	−0.03265666		
<i>P</i>	3.63	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 11 22	691	0.1+	0.3+	1998 11 11	699	0.2+	0.0	2000 04 05	704	0.1+	0.1+
1995 11 22	691	0.1+	0.3−	1998 11 11	699	0.4+	1.2+	2000 04 05	704	0.1−	0.4−
1995 11 22	691	0.2−	0.0	1998 11 11	699	0.2+	0.3+	2000 04 06	699	0.1−	0.3+
1998 09 18	699	0.5−	0.1+	2000 03 06	608	0.8−	0.7−	2000 04 06	704	0.4+	0.2+
1998 09 18	699	0.4−	1.1−	2000 03 06	608	0.1+	0.8−	2000 04 06	699	0.1−	0.7+
1998 09 18	699	0.0	0.5−	2000 03 06	608	0.4−	0.9−	2000 04 06	704	0.3−	0.6+
1998 09 26	704	0.0	0.6+	2000 03 09	704	1.0+	0.7−	2000 04 06	704	0.2+	0.6+
1998 09 26	704	0.0	0.1+	2000 03 09	704	0.4+	0.3+	2000 04 06	699	0.3−	0.5+
1998 09 26	704	0.1−	1.3−	2000 03 09	704	0.0	0.5−	2000 04 06	704	0.0	0.8+
1998 09 26	704	0.6+	0.1−	2000 03 09	704	0.3+	0.2+	2000 04 06	699	0.1+	0.1+
1998 09 26	704	0.5−	0.0	2000 03 09	704	0.6−	0.4−	2000 04 06	704	0.1−	0.5+
1998 09 27	704	0.4−	0.3+	2000 03 27	699	0.4−	0.3+	2000 04 07	704	0.4+	0.6+
1998 09 27	704	0.5−	1.0+	2000 03 27	699	0.1+	0.2−	2000 04 07	704	0.2−	0.4+
1998 09 27	704	(0.4−	2.2+)	2000 03 27	699	0.4+	0.6+	2000 04 07	704	0.2−	0.3−
1998 09 27	704	0.8−	1.0+	2000 03 27	699	0.2+	0.0	2000 04 07	704	0.2+	0.6+
1998 09 27	704	0.7−	0.2−	2000 04 02	699	0.9+	0.2+	2000 04 07	704	0.3−	0.7+
1998 10 10	699	0.5−	1.6+	2000 04 02	699	0.2−	0.0	2000 04 10	704	0.0	0.2−
1998 10 10	699	0.3+	1.1+	2000 04 02	699	0.4−	0.1+	2000 04 10	704	0.3+	0.2+
1998 10 10	699	0.1+	0.8+	2000 04 02	699	0.1+	0.4+	2000 04 10	704	0.3+	0.3−
1998 11 10	699	0.2+	0.1+	2000 04 05	704	0.0	0.3+	2000 04 10	704	0.8+	0.3+
1998 11 10	699	0.3+	0.7−	2000 04 05	704	0.3+	0.3+				
1998 11 10	699	0.4−	0.6+	2000 04 05	704	0.2+	0.1+				

1998 SM₁₂₄ = 2000 GK

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30699363	ω	5.94805	+0.44056435	−0.89750173		
<i>a</i>	2.1762885	Ω	57.91359	+0.82267458	+0.39478934		
<i>e</i>	0.1205058	<i>i</i>	1.34195	+0.35931822	+0.19655031		
<i>P</i>	3.21	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	

2000 APR. 18

1998 09 27	704	(2.1− 2.9−)	2000 04 03	684	0.2+ 1.0+	2000 04 07	699	0.2− 0.2+
1998 10 28	704	0.1+ 1.3+	2000 04 05	704	0.3+ 0.2+			
1998 10 28	704	(2.9+ 0.5+)	2000 04 05	704	0.2− 1.2−			

1998 SJ₁₂₇ = 2000 DZ₁₀₆

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 88.71615			(2000.0)			P			Q		
<i>n</i>	0.26660807	ω	9.55006			+0.35333637			−0.93020902		
<i>a</i>	2.3908584	Ω	59.81659			+0.85054018			+0.27522513		
<i>e</i>	0.0723987	<i>i</i>	6.59777			+0.38953152			+0.24282155		
<i>P</i>	3.70	<i>H</i>	15.2			<i>G</i>	0.15		<i>U</i>	4	

Residuals in seconds of arc

1998 09 26	704	0.3− 0.4−	1998 10 28	704	0.9− 1.0−	2000 03 05	704	0.3− 0.5−
1998 09 26	704	0.1− 1.0−	1998 10 28	704	1.9− 0.1−	2000 03 05	704	0.6− 0.3−
1998 09 26	704	1.4+ 1.2−	1998 10 28	704	(3.5− 0.9+)	2000 03 05	704	0.4− 0.2+
1998 09 26	704	1.1+ 0.7−	1998 10 29	704	0.7− 0.3−	2000 03 12	704	0.3− 0.3+
1998 09 26	704	0.1− 1.4+	1998 10 29	704	0.6− 0.8+	2000 03 12	704	0.2− 0.0
1998 09 27	704	1.2− 0.8+	1998 10 29	704	1.5+ 1.7+	2000 03 12	704	0.5+ 0.5+
1998 09 27	704	(2.7+ 0.3+)	2000 02 29	704	0.2+ 0.2−	2000 03 12	704	0.7− 0.4−
1998 09 27	704	0.9+ 0.9+	2000 02 29	704	0.3− 0.7−	2000 03 26	699	1.5+ 0.7+
1998 09 27	704	(2.3+ 0.6−)	2000 02 29	704	0.6− 0.4+	2000 03 26	699	0.4+ 0.0
1998 09 27	704	0.3+ 0.1−	2000 03 05	704	0.6− 0.4−	2000 03 26	699	1.1+ 0.1+
1998 10 28	704	0.7+ 0.7−	2000 03 05	704	0.4− 0.1−	2000 03 26	699	0.6+ 0.5+

1998 SX₁₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 94.98542			(2000.0)			P			Q		
<i>n</i>	0.29655438	ω	343.16931			+0.04284391			−0.99776175		
<i>a</i>	2.2270663	Ω	104.35256			+0.92263515			+0.01979884		
<i>e</i>	0.1473587	<i>i</i>	3.03781			+0.38328680			+0.06387099		
<i>P</i>	3.32	<i>H</i>	15.0			<i>G</i>	0.15		<i>U</i>	4	

Residuals in seconds of arc

1998 09 24	699	0.3+ 0.2+	1998 10 17	699	0.2− 0.0	1998 11 11	699	0.0 0.3−
1998 09 24	699	0.3+ 0.8+	1998 10 17	699	0.4+ 0.7−	1998 11 11	699	0.7− 0.2+
1998 09 24	699	0.7+ 0.0	1998 10 17	699	0.4+ 0.4−	1998 11 11	699	0.5− 0.1−
1998 09 26	704	1.0− 1.9−	1998 10 28	704	1.4− 1.6+	1999 01 09	910	0.2+ 1.0−
1998 09 26	704	0.1+ 0.4−	1998 10 28	704	0.2+ 0.3+	1999 01 09	910	0.7+ 0.5−
1998 09 26	704	0.6+ 0.3+	1998 10 28	704	0.1− 0.0	1999 01 09	910	0.3+ 1.1−
1998 09 26	704	0.5− 1.2−	1998 10 28	704	0.4+ 0.1−	2000 03 12	699	(0.6+ 2.2+)
1998 09 26	704	0.0 0.9−	1998 10 28	704	0.1− 0.2+	2000 03 12	699	0.8− 0.4−
1998 09 27	704	0.0 1.1−	1998 10 29	704	0.5− 0.3+	2000 03 12	699	0.7− 0.6+
1998 09 27	704	0.2− 0.0	1998 10 29	704	0.2+ 1.2+	2000 03 12	699	0.8− 0.5−
1998 09 27	704	0.2− 0.2+	1998 10 29	704	1.0+ 1.5+	2000 04 10	608	0.5+ 0.5−
1998 09 27	704	0.3+ 0.3+	1998 10 29	704	(3.2− 1.7+)	2000 04 10	608	0.2+ 0.5−
1998 09 27	704	0.3− 0.1−	1998 10 29	704	0.3+ 0.5+	2000 04 10	608	0.8+ 0.0

1998 SK₁₂₈ = 2000 FZ₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 107.27667			(2000.0)			P			Q		
<i>n</i>	0.26754311	ω	268.50844			+0.55291194			−0.83277658		
<i>a</i>	2.3852846	Ω	147.87463			+0.78375036			+0.50846583		
<i>e</i>	0.1620441	<i>i</i>	2.99415			+0.28288470			+0.21896499		
<i>P</i>	3.68	<i>H</i>	15.4			<i>G</i>	0.15		<i>U</i>	4	

Residuals in seconds of arc

1998 09 18	699	1.0+ 1.6+	1998 10 19	699	0.3− 1.2−	2000 03 11	704	0.8− 1.7−
1998 09 18	699	0.2+ 0.7+	1998 10 19	699	0.3− 0.3+	2000 03 11	704	1.1− 1.1−
1998 09 18	699	(0.0 2.5+)	1998 10 28	704	0.3+ 0.7+	2000 03 29	704	0.4− 0.3+
1998 09 26	704	0.2− 0.3−	1998 10 28	704	0.5+ 0.9+	2000 03 29	704	0.3+ 0.1+
1998 09 26	704	0.5+ 0.2−	1998 10 28	704	1.1+ 0.8+	2000 03 29	704	0.5+ 0.8−
1998 09 26	704	0.0 0.3−	1998 10 28	704	0.3− 1.1+	2000 03 29	704	0.1− 0.2+
1998 09 26	704	0.2− 1.4−	1998 10 28	704	1.0− 1.5+	2000 04 05	704	0.0 0.0

M.P.C. 40013

1998 09 26	704	0.2− 1.1−	1998 10 29	704	0.1+ 0.7−	2000 04 05	704	0.0 0.2−
1998 09 27	704	0.1+ 0.4−	1998 10 29	704	0.2+ 0.6+	2000 04 05	704	0.9+ 0.6+
1998 09 27	704	0.1+ 0.0	1998 10 29	704	0.6+ 1.6−	2000 04 05	704	0.8− 1.2+
1998 09 27	704	1.2− 0.4+	1998 10 29	704	0.2− 0.4+	2000 04 05	704	0.0 0.2+
1998 09 27	704	0.4− 1.0+	1998 10 29	704	0.6− 0.1−	2000 04 06	704	0.7+ 0.3−
1998 09 27	704	0.3− 0.4−	1999 01 09	910	0.2+ 0.0	2000 04 06	704	0.0 0.6+
1998 10 10	699	0.3− 0.2+	1999 01 09	910	0.2− 0.5−	2000 04 06	704	0.0 0.1+
1998 10 10	699	0.3+ 0.4−	1999 01 09	910	0.5+ 0.0	2000 04 06	704	0.2+ 0.1+
1998 10 10	699	0.3− 0.1−	2000 03 11	704	0.7+ 0.0	2000 04 06	704	0.1+ 1.2+
1998 10 19	699	0.4+ 0.5−	2000 03 11	704	0.0 0.7+			

1998 SF₁₂₉ = 2000 FW₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 42.00325			(2000.0)			P			Q		
<i>n</i>	0.18087608	ω	78.12954			−0.15974523			−0.97704569		
<i>a</i>	3.0965776	Ω	22.58778			+0.70082056			−0.21279537		
<i>e</i>	0.2912170	<i>i</i>	21.52634			+0.69522083			−0.00999253		
<i>P</i>	5.45	<i>H</i>	14.0			<i>G</i>	0.15		<i>U</i>	3	

Residuals in seconds of arc

1998 09 26	704	0.9+ 1.1+	1998 10 29	704	1.1− 1.9−	2000 03 28	704	0.5+ 0.4+
1998 09 26	704	0.6+ 0.2+	1998 10 29	704	0.2+ 0.0	2000 03 28	704	0.0 0.3+
1998 09 26	704	0.2+ 1.0−	1998 10 29	704	(2.7− 1.9+)	2000 04 03	704	0.8+ 1.0+
1998 09 26	704	0.2− 0.0	1998 10 29	704	1.1− 0.8−	2000 04 03	704	0.3− 0.1−
1998 09 26	704	0.1− 0.1+	1998 10 29	704	0.2+ 1.2+	2000 04 03	704	0.1+ 0.1−
1998 09 27	704	0.5− 0.2+	2000 03 05	704	0.4− 0.3−	2000 04 03	704	0.4+ 0.3+
1998 09 27	704	1.1+ 1.3+	2000 03 05	704	0.2− 0.2−	2000 04 03	704	0.9+ 0.0
1998 09 27	704	0.4+ 0.2+	2000 03 05	704	0.2− 0.3−	2000 04 08	704	0.5− 0.1+
1998 09 27	704	0.1− 0.7+	2000 03 12	704	0.5− 0.4−	2000 04 08	704	0.2+ 0.7−
1998 09 27	704	0.4+ 0.3+	2000 03 12	704	0.5− 0.4−	2000 04 08	704	0.4+ 0.3−
1998 10 28	704	(0.1+ 2.1−)	2000 03 12	704	0.3+ 0.2−	2000 04 08	704	0.4+ 0.2−
1998 10 28	704	0.4− 0.6−	2000 03 12	704	0.9− 0.2−	2000 04 08	704	0.0 0.9−
1998 10 28	704	1.2− 0.5+	2000 03 28	704	0.5+ 1.6+			
1998 10 28	704	0.4+ 0.9−	2000 03 28	704	0.5− 1.0+			

1998 SR₁₂₉ = 2000 CO₁₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 67.57751			(2000.0)			P			Q		
<i>n</i>	0.22986707	ω	24.88233			+0.27015758			−0.96182001		
<i>a</i>	2.6392764	Ω	49.47563			+0.87344585			+0.22569355		
<i>e</i>	0.0618043	<i>i</i>	3.30220			+0.40510150			+0.15480532		
<i>P</i>	4.29	<i>H</i>	14.8			<i>G</i>	0.15		<i>U</i>	4	

Residuals in seconds of arc

1998 09 26	704	1.0− 0.2−	1998 10 28	704	0.6− 0.5−	2000 02 06	703	1.1− 0.6+
1998 09 26	704	0.1+ 0.2+	1998 10 29	704	1.2+ 1.5−	2000 02 06	703	(2.0− 1.7+)
1998 09 26	704	0.9− 0.1−	1998 10 29	704	0.4− 0.4+	2000 02 11	704	0.6+ 0.5−
1998 09 26	704	0.6+ 0.1−	1998 10 29	704	0.3− 1.5+	2000 02 11	704	(2.2+ 0.2−)
1998 09 27	704	0.5− 0.3+	1998 10 29	704	(2.3− 1.0+)	2000 02 11	704	0.4+ 0.1−
1998 09 27	704	0.4+ 1.2+	2000 02 03	704	0.5+ 0.7−	2000 02 11	704	0.4+ 0.6−
1998 09 27	704	0.4− 0.4+	2000 02 03	704	0.4− 0.2−	2000 02 11	704	0.2+ 0.4−
1998 09 27	704	1.4+ 0.4−	2000 02 03	704	1.0+ 0.4−	2000 02 25	703	0.1+ 0.8−
1998 09 27	704	0.4− 0.9−	2000 02 03	704	0.8+ 0.3+	2000 02 25	703	0.6− 0.1+
1998 10 28	704	0.4− 1.1−	2000 02 03	704	0.6+ 0.7+	2000 02 25	703	0.6− 0.3+
1998 10 28	704	(2.6+ 2.0+)	2000 02 06	703	0.8− 0.8+	2000 02 25	703	0.1− 0.6+
1998 10 28	704	1.0+ 0.8+	2000 02 06	703	1.0− 0.4+			

1998 SF₁₃₀ = 2000 FD₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 94.05665			(2000.0)			P		

Residuals in seconds of arc

1996 03 16	691	0.3−	1.3−	1998 10 17	699	(2.5+ 0.8+)	2000 03 30	691	0.3−	0.1−	
1996 03 16	691	0.1−	0.1−	1998 10 17	699	0.1−	0.4+	2000 03 30	691	0.2−	0.3−
1996 03 16	691	0.4−	0.2−	1998 10 28	704	0.2−	0.8−	2000 03 30	691	0.4−	0.3−
1998 09 26	704	0.0	1.6−	1998 10 28	704	(0.7+ 3.0−)	2000 04 05	704	0.0	0.7+	
1998 09 26	704	1.1+	0.4+	1998 10 28	704	0.1+	0.9−	2000 04 05	704	0.2+	0.8+
1998 09 26	704	0.7+	0.4−	1998 10 28	704	0.3−	1.2+	2000 04 05	704	0.2−	0.5+
1998 09 27	704	0.7−	0.6+	1998 10 28	704	1.1−	0.4−	2000 04 05	704	0.7+	1.0+
1998 09 27	704	0.4+	1.4+	1998 10 29	704	0.7+	0.7+	2000 04 05	704	1.1+	0.2−
1998 09 27	704	(1.8− 2.2+)		1998 10 29	704	0.5+	1.1−	2000 04 06	691	0.5−	0.5−
1998 09 27	704	0.6−	1.2−	1998 10 29	704	1.3−	1.5+	2000 04 06	691	0.1+	0.4−
1998 09 27	704	0.6+	0.3−	1998 10 29	704	0.1+	0.4−	2000 04 06	691	0.3−	0.6−
1998 10 17	699	0.7+	0.1+	1998 10 29	704	(1.0− 2.1+)					

1998 SV₁₃₀ = 2000 FH₂₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	44.76045	(2000.0)	P	Q	
<i>n</i>	0.21911368	ω	96.79707	−0.32608573	−0.94473678
<i>a</i>	2.7249365	Ω	12.39526	+0.79326518	−0.29288566
<i>e</i>	0.1868754	<i>i</i>	9.05192	+0.51419690	−0.14727663
<i>P</i>	4.50	<i>H</i>	14.6	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1998 09 26	704	1.0+	0.6+	1998 11 12	910	0.3−	0.1+	2000 04 02	699	0.6+	0.5+
1998 09 26	704	0.2+	1.4−	1998 11 12	910	0.1−	0.1−	2000 04 05	704	0.9+	1.1−
1998 09 26	704	(2.2+	1.2+)	2000 02 11	704	0.2+	0.3−	2000 04 05	704	0.2+	0.2−
1998 09 26	704	0.1−	1.6+	2000 02 11	704	0.5−	0.3−	2000 04 05	704	0.1+	0.1−
1998 09 26	704	(2.3−	1.3−)	2000 02 11	704	0.2−	0.4+	2000 04 07	704	0.2−	0.1+
1998 09 27	704	(0.9−	2.1+)	2000 02 11	704	0.0	0.2+	2000 04 07	704	0.0	0.2+
1998 09 27	704	1.3−	0.9+	2000 02 11	704	1.2−	0.4−	2000 04 07	704	0.5−	0.1−
1998 09 27	704	1.2−	0.3+	2000 03 02	703	0.2+	0.2+	2000 04 07	704	0.5−	0.2−
1998 09 27	704	(3.5−	0.6+)	2000 03 02	703	0.1−	0.2−	2000 04 07	704	0.3−	0.0
1998 10 17	699	0.4−	0.5+	2000 03 02	703	1.2+	0.3−	2000 04 08	704	1.0−	0.4−
1998 10 17	699	0.4+	0.4+	2000 03 02	703	0.4−	0.4−	2000 04 08	704	0.2−	0.6+
1998 10 17	699	0.4+	0.0	2000 03 12	704	0.1+	0.9−	2000 04 08	704	0.3−	0.6+
1998 10 28	704	0.9+	1.2−	2000 03 12	704	0.3+	0.0	2000 04 08	704	0.3+	0.2+
1998 10 28	704	0.5−	1.0+	2000 03 12	704	0.2+	0.4+	2000 04 08	704	0.9−	1.4+
1998 10 28	704	1.7+	1.4−	2000 03 12	704	0.1+	0.4+	2000 04 08	704	0.1−	0.8−
1998 10 28	704	0.2−	0.8+	2000 03 12	704	0.6+	0.6+	2000 04 08	704	0.3+	0.7+
1998 10 29	704	(0.2+	2.2−)	2000 03 26	699	0.1−	0.4−	2000 04 08	704	0.1+	0.0
1998 10 29	704	1.1−	0.2−	2000 03 26	699	0.6+	0.0	2000 04 08	704	0.5+	0.1−
1998 10 29	704	1.2−	0.6−	2000 03 26	699	0.9+	0.0	2000 04 08	704	0.2−	0.9+
1998 10 29	704	1.1+	0.5+	2000 03 26	699	0.5+	0.2−	2000 04 10	704	0.0	0.2+
1998 10 29	704	1.5−	1.3−	2000 03 28	704	0.0	0.5−	2000 04 10	704	0.2+	0.1+
1998 11 10	704	0.5+	1.4+	2000 03 28	704	0.2−	0.2−	2000 04 10	704	0.9−	0.4−
1998 11 10	704	0.4−	0.7+	2000 03 28	704	0.3−	0.5−	2000 04 10	704	0.1−	0.6−
1998 11 10	704	1.2+	2.0−	2000 04 02	699	0.2+	0.7+	2000 04 10	704	0.5−	0.4−
1998 11 10	704	0.2+	0.0	2000 04 02	699	0.5+	0.9+				
1998 11 12	910	0.0	0.5+	2000 04 02	699	0.4+	0.6+				

1998 SM₁₃₃ = 1998 UW₂₁ = 2000 GE₇₉

Id. A. Doppler (d, MPC 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	75.71439	(2000.0)	P	Q	
<i>n</i>	0.26613373	ω	252.79824	−0.20919374	−0.97718135
<i>a</i>	2.3936984	Ω	209.35432	+0.92329484	−0.18497944
<i>e</i>	0.1977461	<i>i</i>	4.30581	+0.32212516	−0.10439935
<i>P</i>	3.70	<i>H</i>	15.4	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.8+	1.6−	1998 10 28	704	(0.7+ 2.7−)	1998 11 11	704	(2.4+ 1.2+)
1998 09 26	704	0.7−	0.9−	1998 10 28	704	0.3− 0.1+	1998 11 11	704	0.3− 0.9+
1998 09 26	704	1.2+	0.1−	1998 10 28	704	0.7− 1.2−	2000 04 05	704	0.6− 0.8+
1998 09 26	704	0.1+	0.6+	1998 10 28	704	0.4+ 0.0	2000 04 05	704	0.1+ 0.3+
1998 09 27	704	(2.4− 2.0−)		1998 10 29	704	0.3+ 0.9+	2000 04 05	704	0.3− 0.7+

1998 09 27	704	1.1−	0.1+	1998 10 29	704	0.2+	1.5+	2000 04 06	704	0.2−	0.5−
1998 09 27	704	0.3−	1.4+	1998 10 29	704	0.4−	0.3−	2000 04 06	704	0.1+	1.0−
1998 09 27	704	(4.2−	0.4+)	1998 10 29	704	0.2+	0.7−	2000 04 06	704	0.0	0.5−
1998 10 17	699	0.3+	1.2+	1998 10 29	704	0.2+	0.8−	2000 04 06	704	0.2+	0.1−
1998 10 17	699	(2.3+	0.5+)	1998 11 11	704	0.7+	1.1−	2000 04 06	704	0.7+	0.1+
1998 10 17	699	0.0	0.2+	1998 11 11	704	0.5−	0.3−				

1998 SC₁₃₄ = 2000 GL₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	113.11767	(2000.0)	P	Q	
<i>n</i>	0.27352643	ω	234.41027	+0.51657118	−0.85623853
<i>a</i>	2.3503716	Ω	184.49060	+0.79795237	+0.48272609
<i>e</i>	0.2133255	<i>i</i>	2.29084	+0.31052574	+0.18393234
<i>P</i>	3.60	<i>H</i>	15.3	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1993 04 24	691	0.3+	0.7+	1998 10 28	704	0.1+	0.6+	1998 12 09	699	0.0	0.3+
1993 04 24	691	0.0	0.5+	1998 10 29	704	0.3+	0.2−	1998 12 09	699	0.7+	1.1−
1993 04 24	691	0.2+	0.7+	1998 10 29	704	0.6+	0.8+	2000 04 05	704	0.2+	0.0
1998 09 18	699	0.3−	0.4−	1998 10 29	704	0.3+	0.0	2000 04 05	704	0.1+	0.1−
1998 09 18	699	1.1−	0.8−	1998 10 29	704	0.4−	0.6+	2000 04 05	704	0.1+	0.7+
1998 09 18	699	0.1−	0.1+	1998 10 29	704	0.2−	0.4−	2000 04 05	704	0.5+	0.8+
1998 09 26	704	0.3+	0.4−	1998 11 10	704	0.2−	0.1−	2000 04 05	704	0.5+	1.2+
1998 09 26	704	0.6+	0.4−	1998 11 10	704	0.6−	0.3−	2000 04 06	704	1.1+	0.3+
1998 09 26	704	0.3−	0.5−	1998 11 10	704	1.0−	0.1+	2000 04 06	704	0.2+	0.3+
1998 09 26	704	0.2+	0.0	1998 11 10	704	0.2−	0.3−	2000 04 06	704	0.4−	0.0
1998 09 26	704	0.1−	0.0	1998 11 10	704	0.7−	0.0	2000 04 06	704	0.8+	0.9+
1998 09 27	704	0.1+	0.1−	1998 11 10	699	0.2+	0.8+	2000 04 06	704	0.3+	1.1+
1998 09 27	704	0.5−	1.1+	1998 11 10	699	0.2−	0.5+	2000 04 10	704	0.4+	0.7+
1998 09 27	704	1.2−	1.5+	1998 11 10	699	1.0+	0.4−	2000 04 10	704	0.2+	0.5+
1998 09 27	704	0.0	0.9+	1998 11 11	704	0.3+	0.4+	2000 04 10	704	0.7−	0.8+
1998 09 27	704	0.2−	1.6+	1998 11 11	704	0.1+	1.1+	2000 04 10	704	0.1+	0.4+
1998 10 28	704	0.1+	0.5+	1998 11 11	704	0.0	0.3+	2000 04 13	691	0.1−	0.2+
1998 10 28	704	1.0−	0.6+	1998 11 11	704	0.5+	0.6+	2000 04 13	691	0.2−	0.2+
1998 10 28	704	0.5+	0.1+	1998 11 11	704	0.8+	0.4+	2000 04 13	691	0.2−	0.2+
1998 10 28	704	0.5−	0.3+	1998 12 09	699	0.6−	0.2−				

1998 SG₁₃₄ = 2000 EC₁₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	122.59580	(2000.0)	P	Q	
<i>n</i>	0.23977489	ω	359.93838	+0.94231982	−0.32537027
<i>a</i>	2.5660606	Ω	19.61504	+0.30719394	+0.74753245
<i>e</i>	0.1284632	<i>i</i>	13.52921	+0.13291065	+0.57907636
<i>P</i>	4.11	<i>H</i>	14.2	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1998 09 18	809	(3.9+ 4.2+)	1998 09 27	704	0.0	0.0	1998 11 10	704	0.3+	0.3+
1998 09 18	809	(2.4+ 2.9+)	1998 10 10	699	1.2+	0.2+	1998 11 10	704	0.8+	0.0
1998 09 18	809	(2.1+ 3.6+)	1998 10 10	699	0.9+	0.2+	1998 11 10	704	0.7+	0.1−
1998 09 18	699	0.2+ 1.4+	1998 10 10	699	1.0+	0.7+	1998 12 20	097	0.9+	0.1−
1998 09 18	699	0.2+ 1.0+	1998 10 17	699	0.3−	0.5+	1998 12 20	097	1.0+	0.0
1998 09 18	699	0.0 0.0	1998 10 17	699	0.2−	0.5+	2000 03 04	704	(2.9− 1.0+)	
1998 09 20	809	(4.6+ 3.4+)	1998 10 17	699	0.1+	0.7+	2000 03 04	704	0.3−	0.1+
1998 09 20	809	(4.2+ 2.6+)	1998 10 28	704	0.0	0.6−	2000 03 04	704	0.6−	0.2−
1998 09 20	809	(2.9+ 3.2+)	1998 10 28	704	0.5−	0.3−	2000 03 04	704	0.2−	0.3−
1998 09 26	704	0.1+ 0.3−	1998 10 28	704	0.4+	0.1+	2000 03 11	699	0.3+	0.2−
1998 09 26	704	0.0 0.1−	1998 10 28	704	0.7−	0.2−	2000 03 11	699	0.9+	0.4−
1998 09 26	704	0.3− 1.0−	1998 10 28	704	0.5−	0.8−	2000 03 11	699	0.1+	0.9+
1998 09 26	704	0.1− 0.2−	1998 10 29	704	0.2−	0.8−	2000 03 11	699	0.3−	0.9−
1998 09 26	704	0.2− 0.5−	1998 10 29	704	1.0−	0.4+	2000 03 12	704	0.1+	0.5+
1998 09 27	704	0.0 0.3−	1998 10 29	704	0.6−	0.4+	2000 03 12	704	0.0	0.1−
1998 09 27	704	0.2− 0.4−	1998 10 29	704	0.1−	0.7+	2000 03 12	704	0.1−	0.0
1998 09 27	704	0.8− 0.1−	1998 10 29	704	1.0−	0.1+	2000 03 12	704	0.3+	0.3+
1998 09 27	704	0.0 0.2+	1998 11 10	704	0.5−	1.1−	2000 03 12	704	0.2+	1.0+

2000 APR. 18

M.P.C. 40015

1998 SP₁₃₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	123.23905		(2000.0)	P		Q	
<i>n</i>	0.26047309	ω	5.09068	+0.85130288		−0.52400424	
<i>a</i>	2.4282542	Ω	26.56328	+0.47926264		+0.75606209	
<i>e</i>	0.1313075	<i>i</i>	3.39904	+0.21351985		+0.39216028	
<i>P</i>	3.78	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 01 25	691	0.3−	0.8−	1998 10 29	704	0.1+	0.5−	2000 02 16	703	0.3−	0.5−
1996 01 25	691	0.4−	0.9−	1998 10 29	704	0.7−	0.4−	2000 03 02	703	0.1+	0.7−
1996 01 25	691	0.4−	0.9−	1998 10 29	704	0.1−	0.4−	2000 03 02	703	0.1−	0.3−
1998 09 26	704	0.2−	0.6+	1998 10 29	704	0.5−	0.8−	2000 03 02	703	0.3+	0.7−
1998 09 26	704	0.2+	0.4−	1998 10 29	704	0.9+	1.4−	2000 03 02	703	0.4−	1.2+
1998 09 26	704	1.1+	0.1−	1998 11 10	704	0.1+	0.4−	2000 03 11	699	0.3−	0.2+
1998 09 26	704	0.3+	0.3+	1998 11 10	704	0.6−	0.2+	2000 03 11	699	0.2+	0.1+
1998 09 26	704	0.4+	0.3+	1998 11 10	704	1.1−	0.5+	2000 03 11	699	0.5−	0.1−
1998 09 27	704	0.2−	0.2−	1998 11 10	704	0.2−	0.4+	2000 03 11	699	0.2−	0.2−
1998 09 27	704	0.7−	0.1+	1998 11 10	699	1.2+	0.3+	2000 03 12	704	0.2−	0.0
1998 09 27	704	0.1−	0.9+	1998 11 10	699	0.2−	1.1+	2000 03 12	704	1.1+	0.3−
1998 09 27	704	0.1−	0.7+	1998 11 10	699	0.4+	0.2+	2000 03 12	704	0.7+	1.1+
1998 09 27	704	1.0−	0.9+	1998 11 11	704	0.2+	0.2+	2000 03 12	704	0.6+	0.6+
1998 10 10	699	0.2+	0.4−	1998 11 11	704	0.3−	0.9+	2000 03 12	704	(3.1+	0.7+)
1998 10 10	699	1.1+	0.5−	1998 11 11	704	0.3−	0.4+	2000 03 28	704	0.4+	0.0
1998 10 10	699	0.7+	0.6−	1998 11 11	704	0.6−	0.4+	2000 03 28	704	0.7+	0.5−
1998 10 17	699	0.4−	0.1−	1998 11 11	704	0.5−	0.8+	2000 03 28	704	0.3+	0.5−
1998 10 17	699	0.5−	0.2−	2000 02 11	704	0.2+	0.2−	2000 03 28	704	0.6+	1.3+
1998 10 17	699	0.2−	0.1−	2000 02 11	704	0.3+	0.5−	2000 04 02	699	0.2−	1.2+
1998 10 28	704	0.2+	0.7−	2000 02 11	704	0.4−	0.6+	2000 04 02	699	0.4−	0.2−
1998 10 28	704	0.1−	0.7−	2000 02 11	704	0.6+	0.3+	2000 04 02	699	0.3−	1.1+
1998 10 28	704	1.4+	1.9+	2000 02 16	703	0.1−	1.1+	2000 04 02	699	0.1−	0.2+
1998 10 28	704	(2.2−	1.2−)	2000 02 16	703	0.3+	0.7+				
1998 10 28	704	0.8−	1.1−	2000 02 16	703	0.8−	1.1−				

1998 SR₁₃₄ = 2000 GM₂₆

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	96.49135		(2000.0)	P		Q	
<i>n</i>	0.25254371	ω	241.85433	+0.37558616		−0.92674900	
<i>a</i>	2.4788201	Ω	186.10343	+0.87573841		+0.35786600	
<i>e</i>	0.2145731	<i>i</i>	4.55574	+0.30334350		+0.11431628	
<i>P</i>	3.90	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 09 14	691	0.2+	0.0	1998 10 28	704	1.0−	0.3+	2000 04 03	699	0.8+	1.4+
1994 09 14	691	0.1+	0.1−	1998 10 28	704	0.8−	0.1+	2000 04 03	699	0.4−	0.6+
1994 09 14	691	0.3−	0.3−	1998 10 28	704	1.4−	0.8+	2000 04 05	691	0.1−	0.2−
1994 09 27	691	0.0	0.0	1998 10 29	704	0.5+	0.0	2000 04 05	704	0.2+	0.4+
1994 09 27	691	0.2−	0.1+	1998 10 29	704	0.5+	0.0	2000 04 05	691	0.3−	0.1−
1994 09 27	691	0.1+	0.1+	1998 10 29	704	0.5+	0.3−	2000 04 05	704	0.5+	0.2+
1996 03 17	566	1.1+	0.3−	1998 10 29	704	1.1+	0.4−	2000 04 05	691	0.2−	0.1−
1996 03 17	566	0.7−	0.2+	1998 10 29	704	0.6+	0.9−	2000 04 05	704	0.4+	0.2+
1996 03 17	566	0.0	0.2+	1998 11 10	704	0.5−	0.6−	2000 04 05	704	0.2+	0.4+
1998 09 18	699	0.3−	0.5+	1998 11 10	704	(2.2−	2.3−)	2000 04 05	704	0.2−	0.2+
1998 09 18	699	0.0	0.2+	1998 11 10	704	0.2−	0.0	2000 04 07	704	0.8+	0.7+
1998 09 18	699	0.3+	0.4+	1998 11 10	704	1.2−	0.5+	2000 04 07	704	0.5+	0.2+
1998 09 26	704	0.1−	0.7+	1998 11 10	704	0.3−	0.4−	2000 04 07	704	0.5+	0.8+
1998 09 26	704	1.0+	0.4−	1998 11 11	704	0.1−	0.1+	2000 04 07	704	0.4+	0.6−
1998 09 26	704	0.2+	0.2+	1998 11 11	704	0.1+	0.6−	2000 04 07	704	1.0+	0.5+
1998 09 26	704	0.1−	0.8+	1998 11 11	704	0.1+	0.1−	2000 04 10	704	0.1+	1.2+
1998 09 26	704	0.9+	0.9+	1998 11 11	704	0.8+	0.4+	2000 04 10	704	0.4+	0.1+
1998 09 27	704	0.1−	1.2+	1998 11 11	704	0.1+	0.0	2000 04 10	704	0.1−	0.7+
1998 09 27	704	0.2−	1.8+	2000 03 27	691	0.7−	0.0	2000 04 10	704	0.5+	0.6−
1998 09 27	704	0.7−	1.5+	2000 03 27	691	0.6−	0.1+	2000 04 10	704	0.8+	1.2+

1998 09 27	704	(2.4−	1.8+)	2000 03 27	691	0.6−	0.2+	2000 04 12	691	0.3−	0.0
1998 10 28	704	0.3−	0.3+	2000 04 03	699	0.4−	0.6+	2000 04 12	691	0.4−	0.1−
1998 10 28	704	1.0−	0.0	2000 04 03	699	0.4−	0.0	2000 04 12	691	0.4−	0.2−

1998 SM₁₃₅ = 2000 ED₁₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.66107		(2000.0)	P		Q	
<i>n</i>	0.26917247	ω	4.19275	+0.37585225		−0.92525643	
<i>a</i>	2.3756491	Ω	63.73690	+0.84853834		+0.32136401	
<i>e</i>	0.1910435	<i>i</i>	3.28186	+0.37244835		+0.20155822	
<i>P</i>	3.66	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.0	0.4+	1998 10 29	704	0.3+	0.2−	2000 03 14	703	0.6+	0.2+
1998 09 26	704	0.8+	0.1−	1998 10 29	704	0.6+	0.0	2000 03 29	704	0.3+	0.6+
1998 09 26	704	0.2+	0.2−	1998 10 29	704	0.8−	0.5+	2000 03 29	704	0.1−	0.3−
1998 09 26	704	0.3+	0.1−	1998 10 29	704	0.6−	0.1−	2000 03 29	704	0.8+	0.5−
1998 09 26	704	0.1+	0.0	1998 11 10	704	0.1+	0.4−	2000 03 29	704	1.1+	0.8−
1998 09 27	704	0.2−	0.1−	1998 11 10	704	0.3−	0.1−	2000 03 29	704	0.4−	0.8−
1998 09 27	704	0.4+	0.5−	1998 11 10	704	0.8+	0.8−	2000 04 05	704	0.1−	0.1+
1998 09 27	704	1.0−	0.4+	1998 11 10	704	0.4+	0.1−	2000 04 05	704	0.4−	1.5+
1998 09 27	704	0.4−	0.8+	1998 11 11	704	0.3+	0.3+	2000 04 05	704	0.7+	0.4−
1998 09 27	704	1.0−	0.7+	1998 11 11	704	0.0	0.1−	2000 04 05	704	1.4+	0.6−
1998 10 11	699	0.4−	0.1−	1998 11 11	704	0.6+	0.1+	2000 04 05	704	0.8−	1.0−
1998 10 11	699	0.6−	0.1+	1998 11 11	704	0.2+	0.1−	2000 04 07	704	0.5−	0.3+
1998 10 11	699	0.6−	0.1+	1998 11 11	704	0.4+	0.1−	2000 04 07	704	0.2+	0.0
1998 10 20	699	0.3−	0.5+	1998 11 14	699	0.8+	0.8+	2000 04 07	704	0.3−	0.4+
1998 10 20	699	0.1+	0.4+	1998 11 14	699	0.1+	0.6+	2000 04 07	704	0.2+	0.7+
1998 10 20	699	0.1−	0.5+	1998 11 14	699	0.3−	0.8+	2000 04 08	704	0.0	0.2+
1998 10 28	704	0.4+	0.6−	2000 03 09	704	0.3−	0.7+	2000 04 08	704	0.0	0.5+
1998 10 28	704	0.2−	0.5−	2000 03 09	704	0.8+	0.2+	2000 04 08	704	1.0−	0.6+
1998 10 28	704	0.3+	0.2−	2000 03 09	704	0.2−	0.1−	2000 04 08	704	1.0−	0.5+
1998 10 28	704	0.1−	0.0	2000 03 14	703	0.1+	0.2+	2000 04 08	704	0.5+	0.3−
1998 10 28	704	0.9−	0.5−	2000 03 14	703	0.1+	1.2+				
1998 10 29	704	0.1−	0.2−	2000 03 14	703	0.5−	0.5−				

1998 SK₁₃₆ = 2000 EV₁₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.01700		(2000.0)	P		Q	
<i>n</i>	0.23733586	ω	37.00493	−0.28870632		−0.95303958	
<i>a</i>	2.5836111	Ω	69.93641	+0.85345583		−0.29947044	
<i>e</i>	0.1509644	<i>i</i>	5.58746	+0.43389147		−0.04508906	
<i>P</i>	4.15	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 26	704	0.7−	1.0+	2000 03 06	608	0.3+	0.3−	2000 04 05	704	0.4+	0.2−
1998 09 26	704	0.9+	1.2+	2000 03 06	608	0.1−	0.4−	2000 04 05	704	0.0	0.5+
1998 09 26	704	0.2−	1.4−	2000 03 12	703	0.7−	0.1−	2000 04 05	704	0.1+	0.3−
1998 09 26	704	0.2−	0.2+	2000 03 12	703	0.1−	0.2+	2000 04 06	704	0.4+	0.1+
1998 09 26	704	0.1−	0.0	2000 03 12	703	0.5−	0.0	2000 04 06	704	0.8+	0.1+
1998 09 27	704	0.6−	0.7−	2000 03 12	703	0.4+	0.4−	2000 04 06	704	0.1+	0.3+
1998 09 27	704	0.2−	1.3+	2000 03 12	704	0.2+	0.0	2000 04 07	704	0.0	0.2+
1998 09 27	704	0.2+	0.9−	2000 03 12	704	0.4+	0.1−	2000 04 07	704	0.2−	

M.P.C. 40016

2000 APR. 18

2000 02 29 704 0.2+ 0.0 2000 04 05 704 0.2- 0.1+
 2000 03 06 608 0.2- 0.4- 2000 04 05 704 0.3- 0.2+

1998 SX₁₃₆ = 2000 FZ₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	123.47031		(2000.0)	P	Q
<i>n</i>	0.28435015	ω	274.49799	+0.73563462	-0.67355619
<i>a</i>	2.2903424	Ω	127.86407	+0.65197613	+0.67527294
<i>e</i>	0.0892531	<i>i</i>	5.22242	+0.18376296	+0.30054702
<i>P</i>	3.47	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 24	699	0.4-	0.7+	1998 10 13	428	0.8+	0.4-	2000 03 12	704	0.8+	0.4+
1998 09 24	699	0.6+	1.1+	1998 10 14	428	0.4+	0.1-	2000 03 12	704	1.1-	0.7-
1998 09 24	699	0.1+	0.2+	1998 10 14	428	0.0	0.3+	2000 03 12	704	1.3-	0.7-
1998 09 26	704	0.4-	0.0	1998 10 15	428	1.0-	1.8-	2000 03 26	699	0.9+	0.0
1998 09 26	704	0.1-	0.3-	1998 10 15	428	1.3-	0.7-	2000 03 26	699	0.4+	0.1+
1998 09 26	704	0.4+	0.1+	1998 11 10	704	0.4+	0.2-	2000 03 26	699	0.5+	0.0
1998 09 26	704	0.3-	0.0	1998 11 10	704	0.4+	1.0+	2000 03 26	699	0.0	0.3-
1998 09 26	704	0.3+	0.4+	1998 11 10	704	1.2+	0.3+	2000 03 28	704	0.9+	0.2+
1998 09 27	704	0.2+	0.4+	1998 11 10	704	0.9+	0.1-	2000 03 28	704	0.5-	0.4-
1998 09 27	704	0.6-	0.3+	1998 11 11	704	0.9-	0.8-	2000 03 28	704	0.1+	0.3+
1998 09 27	704	0.4-	0.2-	1998 11 11	704	0.6-	0.3+	2000 04 05	704	0.6-	0.1+
1998 09 27	704	0.1+	0.8+	1998 11 11	704	0.4+	0.5+	2000 04 05	704	0.5+	0.3+
1998 09 27	704	0.5-	1.0-	1998 11 11	704	0.5-	0.7+	2000 04 05	704	0.5-	0.3+
1998 10 13	428	0.5+	0.5-	2000 03 12	704	0.1+	0.3+	2000 04 05	704	0.0	0.9+

1998 SP₁₃₇ = 2000 EE₁₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	69.13455		(2000.0)	P	Q
<i>n</i>	0.22311724	ω	345.35135	+0.16412878	-0.98263140
<i>a</i>	2.6922412	Ω	95.14663	+0.91356059	+0.11830408
<i>e</i>	0.1795888	<i>i</i>	4.98743	+0.37211396	+0.14296736
<i>P</i>	4.42	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 22	699	0.3-	0.4-	1998 11 10	704	0.8+	1.4+	2000 03 11	699	0.1+	0.7+
1998 09 22	699	0.1+	0.9-	1998 11 10	704	(2.4+	0.8+)	2000 03 11	699	0.0	0.0
1998 09 22	699	0.6-	0.0	1998 11 10	704	0.3-	0.3+	2000 03 11	699	0.5+	0.1+
1998 09 26	704	0.2-	1.3-	1998 11 10	704	0.3+	0.8-	2000 03 11	699	0.2-	0.0
1998 09 26	704	0.1+	0.5-	1998 11 11	704	0.2+	1.1-	2000 03 12	704	0.0	0.4-
1998 09 26	704	0.1+	0.7-	1998 11 11	704	1.3-	1.8-	2000 03 12	704	0.0	0.3-
1998 09 26	704	0.1+	0.7-	1998 11 11	704	0.8+	1.1-	2000 03 12	704	0.0	0.1-
1998 09 27	704	1.2-	1.5+	1998 11 11	704	0.1-	0.3-	2000 03 12	704	0.6+	0.2+
1998 09 27	704	0.0	1.6+	2000 02 11	704	(2.4+	0.8+)	2000 03 12	704	0.2+	0.4-
1998 09 27	704	(0.6-	3.3+)	2000 02 11	704	1.4+	1.5+	2000 04 03	704	0.1-	0.0
1998 09 27	704	0.0	1.7+	2000 02 11	704	0.2+	1.8+	2000 04 03	704	0.2-	0.4-
1998 09 27	704	(2.7-	1.9+)	2000 02 26	703	0.8+	0.7-	2000 04 03	704	0.2-	0.4+
1998 10 01	910	0.3+	0.4+	2000 02 26	703	0.7-	0.8-	2000 04 03	704	0.1-	0.1+
1998 10 01	910	0.5+	0.4+	2000 02 26	703	0.7-	0.5+	2000 04 03	704	0.7-	0.6-
1998 10 01	910	0.4+	0.4+	2000 02 26	703	(2.6+	2.3+)	2000 04 08	704	0.4+	0.4-
1998 10 17	699	0.2+	0.8+	2000 02 29	704	0.1-	0.1+	2000 04 08	704	0.3-	1.2-
1998 10 17	699	0.3-	0.6+	2000 02 29	704	0.4+	0.1+	2000 04 08	704	1.2-	0.2-
1998 10 17	699	0.1+	0.6+	2000 02 29	704	0.1+	0.2-	2000 04 08	704	0.9-	0.1+
1998 11 10	704	0.2+	0.7-	2000 02 29	704	0.4+	0.5+	2000 04 08	704	0.3+	0.3-

1998 SV₁₃₇ = 1998 SU₇₀ = 2000 GA₅₀Id. G. V. Williams (d, *MPC* 33385; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	92.13469		(2000.0)	P	Q
<i>n</i>	0.29389168	ω	57.27004	+0.04373455	-0.99709730
<i>a</i>	2.2404978	Ω	30.40916	+0.87046330	+0.00741643
<i>e</i>	0.1026169	<i>i</i>	7.07266	+0.49028658	+0.07577583
<i>P</i>	3.35	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 18	699	1.1+	0.7+	1998 10 11	699	0.2-	0.0	1998 11 11	704	1.0+	0.6+
1998 09 18	699	0.4+	0.9+	1998 10 11	699	0.5+	0.2-	1998 11 11	704	1.6-	0.2+
1998 09 18	699	0.5+	1.3+	1998 10 28	704	0.1-	1.4+	1998 11 11	704	0.7-	0.1+
1998 09 21	809	(1.4+	2.9+)	1998 10 28	704	0.5-	0.8+	1998 11 23	699	0.9+	0.9-
1998 09 21	809	(0.6+	3.4+)	1998 10 28	704	1.1-	0.2-	1998 11 23	699	0.4-	0.4+
1998 09 21	809	(1.2+	3.8+)	1998 10 28	704	(1.9-	2.7+)	1998 11 23	699	0.3+	0.9-
1998 09 23	809	(14.1-	2.4+)	1998 10 28	704	0.6-	0.8+	2000 03 14	703	0.5+	0.5-
1998 09 23	809	(13.6-	2.4+)	1998 10 29	704	0.5-	0.4+	2000 03 14	703	0.2-	0.1-
1998 09 23	809	(14.2-	2.0+)	1998 10 29	704	1.3-	0.4-	2000 03 14	703	0.2+	0.8-
1998 09 26	704	0.5+	0.7-	1998 10 29	704	0.0	1.9-	2000 03 14	703	0.5+	1.2+
1998 09 26	704	0.9-	1.2+	1998 10 29	704	0.9-	0.5+	2000 04 05	704	0.1-	0.3-
1998 09 26	704	0.9+	0.1+	1998 10 29	704	(1.8+	2.5-)	2000 04 05	704	0.1+	0.4+
1998 09 26	704	0.4+	0.2+	1998 11 10	704	0.4+	0.0	2000 04 05	704	0.2+	0.3+
1998 09 26	704	1.0-	0.2+	1998 11 10	704	0.4-	0.3-	2000 04 05	704	0.0	0.3-
1998 09 27	704	1.3-	1.4-	1998 11 10	704	0.5+	0.4+	2000 04 05	704	0.0	0.0
1998 09 27	704	1.8-	1.5-	1998 11 10	704	1.8+	0.5+	2000 04 06	704	0.2-	0.4+
1998 09 27	704	0.7+	0.6-	1998 11 10	699	1.1+	0.3+	2000 04 06	704	0.1-	0.8+
1998 09 27	704	1.7-	0.3+	1998 11 10	699	0.4+	0.4+	2000 04 06	704	0.3-	0.3+
1998 09 27	704	0.5+	0.9-	1998 11 10	699	0.7+	0.1-	2000 04 06	704	0.7+	0.4+
1998 10 11	699	0.5+	0.4-	1998 11 11	704	0.7+	1.0+	2000 04 06	704	0.3+	0.8+

1998 SE₁₃₉ = 2000 EJ₁₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	72.06593		(2000.0)	P	Q
<i>n</i>	0.22295456	ω	219.27439	+0.26402759	-0.95640920
<i>a</i>	2.6935506	Ω	215.92064	+0.92981936	+0.28677867
<i>e</i>	0.1244413	<i>i</i>	12.28061	+0.25636964	-0.05513109
<i>P</i>	4.42	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 09 26	704	0.4+	0.3-	1998 10 20	910	0.5+	0.4+	1998 11 11	704	(0.7+	4.0-)
1998 09 26	704	0.2+	1.0-	1998 10 28	704	0.2+	0.8-	1998 11 14	699	0.9+	0.5+
1998 09 26	704	1.2-	1.1+	1998 10 28	704	0.4-	0.6-	1998 11 14	699	0.1+	1.7+
1998 09 26	704	0.6+	0.9-	1998 10 28	704	0.5+	1.3-	1998 11 14	699	0.3-	0.9+
1998 09 26	704	(0.6-	2.9-)	1998 10 28	704	1.1-	0.7+	2000 03 03	703	0.2-	0.1+
1998 09 27	704	0.4-	1.2-	1998 10 29	704	0.3+	0.2+	2000 03 03	703	0.4+	0.2-
1998 09 27	704	(2.6-	1.8+)	1998 10 29	704	0.1-	0.5-	2000 03 03	703	0.1-	0.2-
1998 09 27	704	(1.1-	2.9+)	1998 10 29	704	0.4-	0.2+	2000 03 03	703	0.7-	0.3+
1998 09 27	704	0.6-	1.4+	1998 10 29	704	0.3+	0.4-	2000 03 09	704	0.3-	0.2-
1998 10 14	910	0.3+	0.5+	1998 10 29	704	0.3-	0.2-	2000 03 09	704	0.4-	0.2+
1998 10 15	910	0.2+	0.5+	1998 11 11	704	0.6-	0.2-	2000 03 09	704	0.3+	0.3-
1998 10 15	910	0.3+	0.5+	1998 11 11	704	0.8-	0.9-	2000 03 09	704	0.3+	0.5+
1998 10 19	910	0.6+	0.7+	1998 11 11	704	0.1-	1.7-	2000 03 09	704	0.7+	0.0
1998 10 19	910	0.7+	0.7+	1998 11 11	704	(0.8+	3.0-)				

1998 SU₁₃₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.29164		(2000.0)	P	Q
<i>n</i>	0.29517746	ω	139.47959	+0.83887212	-0.53792592
<i>a</i>	2.2339867	Ω	253.25045	+0.47424939	+0.79733612
<i>e</i>	0.1263687	<i>i</i>	4.98704	+0.26717238	+0.27366185
<i>P</i>	3.34	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.2+	0.5+	1998 10 28	704	0.5-	0.8-	2000 03 27	699	0.3-	0.3-
1998 09 26	704	0.2+	0.5+	1998 10 28	704	1.0-	0.6-	2000 03 27	699	0.3-	0.2-
1998 09 26	704	2.0+	1.3-	1998 10 29	704	(1.5-	2.4-)	2000 03 27	699	0.1+	0.4-
1998 09 26	704	0.6-	0.6+	1998 10 29	704	0.2+	1.4-	2000 03 27	699	0.1+	0.5-
1998 09 26	704	0.7-	1.3-	1998 10 29	704	0.1-	1.5-	2000 04 06	699	0.4-	0.7+
1998 09 27	704	0.4+	1.2+	1998 10 29	704	0.4-	0.8-	2000 04 06	699	0.1+	0.0
1998 09 27	704	0.9+	0.6+	1998 10 29	704	(0.8-	2.1-)	2000 04 06	699	0.0	0.2+
1998 09 27	704	0.6-	1.4+	1998 11 10	704	0.1-	0.5+	2000 04 06	699	0.5-	0.2-
1998 09 27	704	0.0	0.2-	1998 11 10	704	0.0	0.5+	2000 04 07	704	0.4+	0.2+
1998 09 27	704	1.3-	0.0	1998 11 10	704	0.8+	0.2+	2000 04 07	704	0.7+	0.1+

M.P.C. 40017

1998 11 10	704	0.8+	1.2−	2000 04 05	704	0.5+	0.4+	2000 04 08	704	0.2+	0.6−
1998 11 10	704	0.8−	0.7+	2000 04 06	704	0.3+	0.7+	2000 04 08	704	0.7+	1.2−
1998 11 10	704	0.1+	0.3−	2000 04 06	704	0.5+	1.0+	2000 04 08	704	0.7+	0.1+
1998 11 10	704	0.3+	0.4−	2000 04 06	704	0.2+	0.3+	2000 04 08	704	0.5−	0.5−
1998 11 11	704	0.1−	0.3−	2000 04 06	704	0.2+	0.7+				

1998 SN₁₄₄ = 2000 GS₇₇
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	85.03832		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27012271	ω	67.60287	-0.04548802	-0.99703224
a	2.3700745	Ω	25.24542	+0.85461221	-0.07103350
e	0.1693837	i	8.37356	+0.51727054	+0.02968092
P	3.65	H	15.0	G	0.15
				U	5

Residuals in seconds of arc

1998 09 20	809	0.7−	0.9−	1998 10 29	704	0.8+	0.3+	1998 11 11	704	0.2+	0.8+
1998 09 20	809	1.5−	1.0−	1998 10 29	704	0.1−	1.0+	2000 04 05	704	0.3−	0.4+
1998 09 20	809	1.5−	0.6−	1998 10 29	704	0.2−	1.1+	2000 04 05	704	0.7+	0.1+
1998 09 21	809	1.3+	1.7+	1998 10 29	704	1.4−	0.5−	2000 04 05	704	0.4+	1.0+
1998 09 21	809	0.3−	0.9+	1998 11 10	704	0.2−	0.5+	2000 04 05	704	0.1−	0.7+
1998 09 21	809	0.5+	1.4+	1998 11 10	704	0.6−	0.4+	2000 04 06	704	0.5+	0.4+
1998 10 28	704	1.6+	0.2−	1998 11 10	704	1.2−	1.5−	2000 04 06	704	0.9+	0.4+
1998 10 28	704	0.7+	0.6−	1998 11 11	704	(2.4−	0.3+)	2000 04 06	704	0.3−	0.5+
1998 10 28	704	0.1−	0.7+	1998 11 11	704	0.1−	0.3+	2000 04 06	704	0.7+	0.8+
1998 10 28	704	0.5+	0.0	1998 11 11	704	0.3−	0.4+	2000 04 06	704	0.3+	0.5+

M	148.30745		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.26601134	ω	201.55192	+0.99842229	-0.05270998
a	2.3944326	Ω	161.43811	+0.05615092	+0.93723020
e	0.1915934	i	3.48569	+0.00000139	+0.34470453
P	3.71	H	15.3	G 0.15	U 4

Residuals in seconds of arc

1998 09 20	809	(1.0+ 2.4+)	1998 10 28	704	0.9+ 0.9-	2000 02 11	691	0.4- 0.4+
1998 09 20	809	0.2- 1.8+	1998 10 28	704	0.2- 1.0-	2000 03 03	704	0.7+ 0.0
1998 09 20	809	0.5- 1.6+	1998 10 29	704	0.4+ 0.9+	2000 03 03	704	1.0+ 0.2+
1998 09 21	809	(1.3+ 2.7+)	1998 10 29	704	0.6- 1.1-	2000 03 03	704	0.3- 0.1+
1998 09 21	809	(0.6+ 3.0+)	1998 10 29	704	0.0 0.4-	2000 03 03	704	0.2- 0.5+
1998 09 21	809	0.4+ 1.9+	1998 10 29	704	0.2+ 0.1+	2000 03 03	704	0.4+ 0.2-
1998 10 11	699	0.5- 0.5-	2000 02 08	691	0.4- 0.6-	2000 03 11	704	0.1- 0.9+
1998 10 11	699	0.9- 0.1-	2000 02 08	691	0.4- 0.2-	2000 03 11	704	0.3+ 0.1+
1998 10 11	699	0.9+ 1.5-	2000 02 08	691	0.3- 0.1+	2000 03 11	704	0.4+ 0.4-
1998 10 28	704	0.5+ 0.0	2000 02 11	691	0.8- 0.1+	2000 03 11	704	0.9+ 0.8+
1998 10 28	704	0.7- 0.7+	2000 02 11	691	0.4- 0.1-			

1998 SR₁₄₆ = 2000 FY₁
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	143.11949		(2000.0)	P	Q
n	0.29563275	ω	17.37775	+0.82721773	-0.56118852
a	2.2316925	Ω	16.84923	+0.50340657	+0.71816082
e	0.1753282	i	5.52309	+0.24958496	+0.41147598
P	3.33	H	15.4	G 0.15	U 4

Residuals in seconds of arc

1998 09 14	699	0.1+	0.5+	1998 10 28	704	0.5-	0.3-	1998 11 15	120	0.2-	0.6-
1998 09 14	699	0.1+	0.3-	1998 10 28	704	0.0	0.3+	1998 11 15	120	0.6+	0.7-
1998 09 14	699	0.6-	0.7-	1998 10 28	120	0.9-	0.2-	2000 03 25	691	0.2+	0.5-
1998 09 20	809	0.9+	0.8+	1998 10 28	120	0.5-	0.5-	2000 03 25	691	0.3+	0.4-
1998 09 20	809	0.6+	0.7+	1998 10 29	704	0.2+	0.3-	2000 03 25	691	0.2+	0.4-
1998 09 20	809	0.4+	1.5+	1998 10 29	704	0.2+	0.0	2000 03 27	691	0.6-	0.5-
1998 09 21	809	0.2+	0.2+	1998 10 29	704	0.3-	0.3-	2000 03 27	691	0.5-	0.5-
1998 09 21	809	0.2-	0.3-	1998 10 29	704	0.1+	0.5-	2000 03 27	691	0.6-	0.1-
1998 09 21	809	0.0	0.1-	1998 10 29	704	0.7-	0.4+	2000 04 05	704	0.4+	0.2+

1998 09 27	691	0.6−	0.7−	1998 11 06	120	0.3+	0.1+	2000 04 05	704	0.0	0.6+
1998 09 27	691	0.6−	0.5−	1998 11 06	120	0.4+	0.3+	2000 04 05	704	0.4+	0.1−
1998 09 27	691	0.3−	0.5−	1998 11 09	120	0.6+	0.1−	2000 04 05	704	0.1+	0.3+
1998 10 11	699	0.1+	0.6−	1998 11 09	120	0.2+	0.3−	2000 04 05	704	0.1−	1.3+
1998 10 11	699	0.1−	0.5−	1998 11 10	704	0.2+	0.0	2000 04 06	704	0.3+	0.4+
1998 10 11	699	0.3+	0.7−	1998 11 10	704	0.2+	0.2−	2000 04 06	704	0.4+	0.6+
1998 10 19	699	0.5+	0.2+	1998 11 10	704	0.2+	0.2−	2000 04 06	704	0.7+	0.2+
1998 10 19	699	0.7+	0.3+	1998 11 11	704	0.5+	0.0	2000 04 06	704	0.3+	0.1+
1998 10 19	699	0.6+	0.5+	1998 11 11	704	1.2+	0.2+	2000 04 06	691	1.3−	0.5−
1998 10 23	120	0.6+	0.1+	1998 11 11	704	0.3+	0.9+	2000 04 06	691	1.4−	0.6−
1998 10 23	120	0.2+	0.1−	1998 11 11	704	0.2−	0.8+	2000 04 06	691	1.0−	0.4−
1998 10 24	120	0.3+	0.2−	1998 11 11	704	0.0	0.6+	2000 04 07	704	0.1−	0.2−
1998 10 24	120	0.8+	0.1−	1998 11 11	120	0.3+	0.2+	2000 04 07	704	0.7+	1.3+
1998 10 27	120	1.9−	0.0	1998 11 11	120	0.3−	0.8+	2000 04 07	704	1.0+	0.8+
1998 10 27	120	1.6−	0.5+	1998 11 11	120	0.2+	0.4+	2000 04 07	704	0.0	0.2+
1998 10 27	120	0.4−	0.2+	1998 11 12	120	0.9−	0.5+	2000 04 10	608	0.1−	0.7−
1998 10 28	704	0.2+	0.1−	1998 11 13	120	1.0−	0.1+	2000 04 10	608	0.1+	1.0−
1998 10 28	704	0.5−	0.3−	1998 11 13	120	0.0	1.3−	2000 04 10	608	0.3+	0.4−

1998 SJ₁₄₇ = 2000 GL₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.80193		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.27024626	ω	261.31545	+0.29146015	−0.95653704
<i>a</i>	2.3693520	Ω	171.72107	+0.90125749	+0.27130566
<i>e</i>	0.1545769	<i>i</i>	3.73254	+0.32060243	+0.10691175
<i>P</i>	3.65	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1994 08 11	809	0.6−	0.9+	1998 10 20	699	0.1−	0.5−	1998 11 11	704	0.1+	1.4+
1994 08 11	809	0.4+	0.9+	1998 10 20	699	1.6−	0.4+	1998 11 11	704	1.5+	1.1−
1994 08 11	809	0.4−	0.1−	1998 10 20	699	0.9−	1.2+	2000 04 05	704	0.3+	0.1+
1998 09 20	809	0.4+	1.7−	1998 10 26	910	0.2+	1.1+	2000 04 05	704	0.2−	0.4−
1998 09 20	809	0.5−	2.0−	1998 10 26	910	0.7+	0.5+	2000 04 05	704	0.1+	0.1−
1998 09 20	809	0.3−	1.6−	1998 10 26	910	0.6+	0.4+	2000 04 05	704	0.5+	0.4−
1998 09 21	809	1.2+	0.4−	1998 11 10	704	0.4+	0.5−	2000 04 05	704	1.8+	0.0
1998 09 21	809	0.6+	1.1−	1998 11 10	704	0.3+	0.2+	2000 04 07	704	0.9−	0.8+
1998 09 21	809	0.7+	0.8−	1998 11 10	704	0.5+	1.8+	2000 04 07	704	0.3+	0.3+
1998 10 14	699	1.0−	0.3−	1998 11 10	704	1.7−	1.2−	2000 04 07	704	0.6−	0.2+
1998 10 14	699	0.6−	0.0	1998 11 10	704	1.0−	0.5+	2000 04 07	704	1.6−	1.6−
1998 10 14	699	0.5−	0.5−	1998 11 11	704	1.5+	1.5+				

1998 SW₁₅₃ = 2000 EX₈₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	7.23513		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26241249	ω	11.04642	−0.84886197	−0.52101710
<i>a</i>	2.4162751	Ω	137.16422	+0.47443402	−0.82540799
<i>e</i>	0.1797754	<i>i</i>	7.54723	+0.23312169	−0.21735416
<i>P</i>	3.76	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 22	910	0.9+	0.9+	2000 02 04	704	0.5+	0.9+	2000 03 05	704	(4.2+	1.1+)
1998 09 23	910	1.1+	0.3+	2000 02 04	704	1.0+	0.7+	2000 03 05	704	0.2−	0.7−
1998 09 23	910	0.9+	0.8+	2000 02 04	704	0.6−	0.2+	2000 03 05	704	0.1−	0.9−
1998 09 26	704	0.3−	0.3+	2000 02 04	704	0.1−	0.6+	2000 03 11	699	0.4+	0.3+
1998 09 26	704	1.4−	0.8−	2000 02 11	704	0.2−	0.3+	2000 03 11	699	0.1−	0.3+
1998 09 26	704	1.6−	0.5+	2000 02 11	704	0.1−	0.5+	2000 03 11	699	0.0	0.3+
1998 09 26	704	0.1−	0.6+	2000 02 11	704	0.3+	0.2+	2000 03 11	699	0.2+	0.2+
1998 09 27	704	0.7−	1.6−	2000 02 11	704	0.4−	0.4+	2000 03 12	704	0.3−	0.3+
1998 09 27	704	0.4+	1.1−	2000 02 11	704	0.8+	0.5+	2000 03 12	704	0.2−	0.1−
1998 09 27	704	0.5+	0.9+	2000 03 02	703	0.0	0.1+	2000 03 12	704	0.2−	0.0
1998 09 27	704	(2.3−	2.2−)	2000 03 02	703	0.1−	0.1−	2000 03 12	704	0.1+	0.1−
2000 01 08	704	0.3−	0.5−	2000 03 02	703	0.2−	0.4+	2000 03 12	704	0.0	0.1−
2000 01 08	704	0.1+	0.2−	2000 03 02	703	0.1−	0.0	2000 03 28	704	0.2−	0.1−
2000 01 08	704	0.3+	0.7−	2000 03 05	704	0.1+	0.0	2000 03 28	704	0.4−	0.0
2000 01 08	704	0.1−	1.2−	2000 03 05	704	0.2−	0.6−	2000 03 28	704	0.9+	0.2−

2000 01 08	704	0.5−	0.9−	2000 03 05	704	0.0	0.3+
2000 02 04	704	0.4+	0.1+	2000 03 05	704	0.3−	0.2−

1998 SO₁₆₁ = 2000 GR₃₁

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	119.22806		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29765664	ω	33.12229	+0.53127495	−0.84531409
<i>a</i>	2.2215649	Ω	24.92650	+0.74524728	+0.43458911
<i>e</i>	0.1058901	<i>i</i>	7.70274	+0.40293104	+0.31076744
<i>P</i>	3.31	<i>H</i>	16.0	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.0	0.5−	1998 10 11	699	0.0	0.4+	2000 04 05	704	0.1−	0.0
1998 09 26	704	0.7−	0.5−	1998 10 17	699	0.2−	0.3−	2000 04 06	699	1.0+	0.2−
1998 09 26	704	1.3−	0.4−	1998 10 17	699	0.6+	0.0	2000 04 06	704	0.5−	0.1+
1998 09 26	704	0.7+	0.9+	1998 10 17	699	0.5−	0.1+	2000 04 06	699	0.1+	1.0+
1998 09 26	704	0.8+	1.0+	2000 03 27	691	0.4−	0.2−	2000 04 06	704	0.0	0.1+
1998 09 27	704	0.1−	0.1−	2000 03 27	691	0.3−	0.3−	2000 04 06	704	0.5−	0.3−
1998 09 27	704	0.2+	0.2−	2000 03 27	691	0.5−	0.4−	2000 04 06	699	0.6+	0.8+
1998 09 27	704	0.5+	0.2−	2000 04 05	704	0.3−	0.2−	2000 04 06	704	0.2+	0.4+
1998 09 27	704	0.7+	0.2−	2000 04 05	704	0.0	0.1−	2000 04 06	699	1.1+	0.4+
1998 10 11	699	0.5−	0.1+	2000 04 05	704	0.2−	0.2−	2000 04 06	704	0.1+	0.0
1998 10 11	699	0.3−	0.2+	2000 04 05	704	0.1−	0.7−				

1998 SN₁₆₂ = 2000 ER₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.47473		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20960449	ω	229.25889	−0.26635293	−0.95912629
<i>a</i>	2.8067409	Ω	236.43625	+0.91530244	−0.22060686
<i>e</i>	0.2333416	<i>i</i>	6.58562	+0.30212176	−0.17722690
<i>P</i>	4.70	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.8−	1.4+	1998 10 29	704	0.1+	1.2+	2000 03 10	704	0.1−	0.2+
1998 09 26	704	0.3−	0.5−	1998 10 29	704	(2.4−	0.1−)	2000 03 10	704	0.3−	0.0
1998 09 26	704	1.0+	0.7−	1998 11 11	704	1.4+	0.3−	2000 03 10	704	0.6−	0.1−
1998 09 26	704	0.1−	1.2−	1998 11 11	704	0.2+	0.5+	2000 03 12	699	0.4+	0.2+
1998 09 27	704	0.7+	0.5+	1998 11 11	704	(2.9+	0.2−)	2000 03 12	699	0.3+	0.4−
1998 09 27	704	0.2+	0.2−	1998 11 11	704	(4.9−	0.6−)	2000 03 12	699	0.2+	0.0
1998 09 27	704	0.5+	1.0+	1999 01 14	691	0.1−	0.1−	2000 03 12	699	0.1−	0.1−
1998 10 28	704	0.6+	1.2−	1999 01 14	691	0.1−	0.4−	2000 04 07	704	0.6+	0.2−
1998 10 28	704	0.5−	1.6+	1999 01 14	691	0.2−	0.1−	2000 04 07	704	0.1−	0.7+
1998 10 28	704	0.4−	0.0	1999 01 18	691	0.7+	0.4−	2000 04 07	704	0.1+	0.9−
1998 10 28	704	0.6−	1.5−	1999 01 18	691	0.4−	0.5−	2000 04 07	704	0.1−	1.1+
1998 10 29	704	1.0−	0.4+	2000 03 10	704	0.1+	0.5+				
1998 10 29	704	0.9−	0.9+	2000 03 10	704	0.0	0.1−				

1998 SF₁₆₄ = 2000 EL₁₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	111.29415		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21892088	ω	341.92858	+0.84603122	−0.51011280
<i>a</i>	2.7265361	Ω	49.75489	+0.51076753	+0.69222906
<i>e</i>	0.0410830	<i>i</i>	11.71428	+0.15279956	+0.51049375
<i>P</i>	4.50	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 09 18	809	1.1+	1.2+	1998 11 14	699	1.2−	0.3+	2000 03 10	703	0.0	0.1−
1998 09 18	809	1.0+	0.0	1998 11 14	699	0.3−	0.4+	2000 03 10	703	0.0	0.2+
1998 09 18	809	0.3+	0.5+	1998 11 14	699	0.7+	0.9+	2000 03 10	703	0.4−	1.0−
1998 09 19	809	0.0	0.3−	1998 11 16	566	1.0−	0.3+	2000 03 10	703	0.1+	0.4−
1998 09 19	809	0.0	1.0−	1998 11 16	566	0.4−	0.4−	2000 03 11	699	0.4+	0.7+
1998 09 19	809	1.4−	0.5−	1998 11 16	566	0.5−	0.2+	2000 03 11	699	0.5+	1.0+
1998 11 10	704	0.7−	0.2+	1998 11 24	046	0.2+	0.4−	2000 03 11	699	0.0	0.3+
1998 11 10	704	0.0	0.4+	1998 11 24	046	0.5+	0.1+	2000 03 11	699	0.1−	0.3−

2000 APR. 18

M.P.C. 40019

1998 11 10	704	0.2−	0.3+	1998 11 24	046	0.6+	0.1−	2000 03 12	704	0.0	0.8−
1998 11 10	704	0.4−	0.2+	1998 11 24	046	0.6+	0.0	2000 03 12	704	0.4−	0.2+
1998 11 11	704	0.3−	0.7−	1998 11 24	046	0.6+	0.1+	2000 03 12	704	0.1−	0.2−
1998 11 11	704	0.5−	1.0−	1998 11 25	046	0.5+	0.1−	2000 03 12	704	0.2−	0.1+
1998 11 11	704	0.1+	0.5−	1998 11 25	046	0.9+	0.2−	2000 03 12	704	0.1+	0.3+
1998 11 11	704	0.9−	0.7+	1998 11 25	046	0.7+	0.2−				
1998 11 11	704	0.1−	0.6−	1998 11 25	046	0.5+	0.0				

1998 TR₂ = 6267 P-L = 2000 EQ₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	116.17917		(2000.0)		P		Q
<i>n</i>	0.23467540	ω	42.81114	+0.84805259	−0.52984209		
<i>a</i>	2.6031009	Ω	349.17385	+0.47294957	+0.76412182		
<i>e</i>	0.1347009	<i>i</i>	2.62788	+0.23900944	+0.36794728		
<i>P</i>	4.20	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1960 09 24	675	1.7+	2.7+	1998 10 15	910	0.0	0.2+	2000 03 03	704	0.7+	0.5+
1960 09 24	675	2.3+	1.6+	1998 10 20	910	0.4+	0.2+	2000 03 03	704	0.2+	0.8+
1960 09 25	675	(4.2+ 3.0+)		1998 10 20	910	0.4+	0.4+	2000 03 04	691	0.0	0.5−
1960 09 25	675	2.9+	1.6+	1998 10 20	910	0.2+	0.2+	2000 03 04	691	0.2−	0.7−
1960 09 26	675	2.1+	2.0+	1998 10 21	910	0.5−	0.1−	2000 03 04	691	0.2−	0.4−
1960 09 26	675	3.0+	2.0+	1998 10 21	910	1.0−	0.5−	2000 03 11	704	0.6+	0.4+
1960 09 28	675	(3.1+ 2.3+)		1998 10 21	910	0.9−	0.3−	2000 03 11	704	0.6+	1.8+
1960 09 28	675	(3.2+ 2.4+)		2000 03 02	691	0.3−	0.2−	2000 03 11	704	0.2−	1.2+
1998 10 13	910	0.5+	0.7−	2000 03 02	691	0.6−	0.1−	2000 03 11	704	(0.0 2.1+)	
1998 10 13	910	0.6+	1.2−	2000 03 02	691	0.6−	0.0	2000 03 15	691	0.3−	0.0
1998 10 13	910	0.4+	1.1−	2000 03 03	704	0.2+	0.9+	2000 03 15	691	0.4−	0.3−
1998 10 15	910	0.3+	0.1+	2000 03 03	704	1.4+	1.0+	2000 03 15	691	0.2−	0.3−
1998 10 15	910	0.5+	0.1+	2000 03 03	704	0.5+	0.1+				

1998 TR₃ = 1971 VS = 2000 GD₈₂

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	257.46000		(2000.0)		P		Q
<i>n</i>	0.36695871	ω	277.22046	+0.59778797	+0.77705293		
<i>a</i>	1.9322260	Ω	32.21805	−0.50816550	+0.55743955		
<i>e</i>	0.0868050	<i>i</i>	21.69381	−0.62001401	+0.29231815		
<i>P</i>	2.69	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1971 11 10	805	0.5−	0.8+	1998 10 29	704	0.3+	0.2+	1999 01 08	704	0.9+	0.7−
1971 11 10	805	0.8+	1.1−	1998 10 29	704	0.4+	0.5+	1999 01 08	704	0.2+	0.3+
1998 08 31	704	0.5+	0.9−	1998 11 11	704	0.6+	0.2−	1999 01 08	704	1.9+	0.1+
1998 08 31	704	1.2+	0.8−	1998 11 11	704	0.4−	0.4−	1999 01 09	699	0.7+	0.3+
1998 08 31	704	0.3−	0.1+	1998 11 11	704	0.4−	0.7−	1999 01 09	699	1.0+	0.1+
1998 08 31	704	(3.3− 1.0−)		1998 11 11	704	0.6−	0.1−	1999 01 09	699	1.1+	0.1−
1998 10 10	699	0.0	0.4+	1998 11 11	704	0.8+	0.4−	2000 02 08	704	0.0	0.4+
1998 10 10	699	0.0	0.1−	1998 11 14	704	0.5−	0.5+	2000 02 08	704	0.8+	0.0
1998 10 10	699	0.1+	0.3+	1998 11 14	704	0.6+	1.3−	2000 02 08	704	0.6+	0.7−
1998 10 14	691	0.6+	0.4+	1998 11 14	704	0.2+	1.3+	2000 03 03	703	0.0	0.2+
1998 10 14	691	0.7+	0.0	1998 11 14	704	0.0	0.1−	2000 03 03	703	0.0	0.1+
1998 10 14	704	0.1+	0.2+	1998 11 14	704	0.6−	0.4−	2000 03 03	703	0.2+	0.5+
1998 10 14	704	0.4−	0.5+	1998 11 16	704	0.3−	0.5+	2000 03 03	703	0.2+	0.3+
1998 10 14	691	0.6+	0.2+	1998 11 16	704	0.6−	1.2+	2000 04 07	704	0.2−	0.1+
1998 10 14	704	0.8−	0.7+	1998 11 16	704	0.0	0.5+	2000 04 07	704	0.2−	0.6+
1998 10 14	704	1.9−	1.1+	1998 11 16	704	0.9−	1.1+	2000 04 07	704	0.0	0.1+
1998 10 14	704	(0.5+ 2.3+)		1998 11 16	704	0.6−	1.6+	2000 04 07	704	0.1−	0.0
1998 10 15	704	0.0	0.0	1998 12 09	704	0.1−	0.6−	2000 04 07	704	0.3+	0.5−
1998 10 15	704	1.0+	0.4−	1998 12 09	704	0.8−	0.8−	2000 04 08	704	0.1+	0.5+
1998 10 15	704	0.1−	0.0	1998 12 09	704	(2.3+ 1.0+)		2000 04 08	704	0.3+	0.0
1998 10 15	704	0.2−	0.0	1998 12 09	704	1.6−	1.7−	2000 04 08	704	0.0	0.0
1998 10 15	704	0.6−	0.6−	1998 12 09	704	(2.1− 0.2+)		2000 04 08	704	0.2+	0.1+
1998 10 29	704	0.5−	0.3−	1999 01 08	704	0.1−	0.8−				
1998 10 29	704	0.0	0.3−	1999 01 08	704	0.0	0.2−				

1998 TE₅ = 2000 EL₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	189.46965		(2000.0)		P		Q
<i>n</i>	0.24221019	ω	253.83652	+0.80835246	+0.58165574		
<i>a</i>	2.5488314	Ω	70.51043	−0.49661619	+0.75657113		
<i>e</i>	0.0219571	<i>i</i>	5.52665	−0.31613076	+0.29879211		
<i>P</i>	4.07	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 08	327	0.3−	0.2−	1998 11 08	046	0.1+	0.5−	2000 02 03	704	0.6+	0.6+
1996 04 08	327	0.0	0.2−	1998 11 10	704	0.8+	0.8+	2000 02 03	704	0.1−	0.1+
1996 04 08	327	0.1−	0.6−	1998 11 10	704	0.3+	0.1+	2000 02 03	704	0.0	0.3+
1998 10 13	120	0.4+	0.1+	1998 11 10	704	0.4+	0.5−	2000 02 11	704	0.1−	0.1−
1998 10 13	120	1.1−	0.5+	1998 11 10	704	0.1+	0.8+	2000 02 11	704	0.1+	0.4+
1998 10 13	120	0.3−	0.1+	1998 11 10	704	1.0+	1.1−	2000 02 11	704	0.4+	0.9−
1998 10 14	699	1.0+	0.4−	1998 11 11	704	0.9−	1.2+	2000 02 11	704	0.9−	0.8+
1998 10 14	699	0.7+	0.4+	1998 11 11	704	1.0−	0.5−	2000 02 29	704	0.1−	0.0
1998 10 14	699	0.4−	0.1+	1998 11 11	704	0.1−	0.7−	2000 02 29	704	0.2−	0.4−
1998 10 15	120	0.7−	1.4−	1998 11 11	704	0.3−	0.9−	2000 02 29	704	0.4+	0.2−
1998 10 15	120	0.4+	0.6+	1998 11 11	120	0.0	1.8−	2000 02 29	704	0.4−	0.0
1998 10 16	120	1.0+	1.4+	1998 11 11	120	1.5+	0.8−	2000 02 29	704	0.5−	0.9−
1998 10 16	120	0.3−	0.5−	1998 11 11	120	0.4+	0.8+	2000 03 11	699	0.0	0.1−
1998 10 16	120	1.3+	0.7−	1998 11 11	046	0.2−	0.2−	2000 03 11	699	0.5+	0.8−
1998 10 20	120	0.0	1.4+	1998 11 11	046	0.2−	0.3+	2000 03 11	699	0.5+	0.1+
1998 10 20	120	0.3−	0.3+	1998 11 11	046	0.5−	0.7+	2000 03 11	699	0.0	0.1−
1998 10 20	120	(0.8+ 2.1−)		1998 11 11	046	0.7−	0.1−	2000 03 12	704	0.2−	0.6+
1998 10 21	120	1.1+	0.1−	1998 11 11	046	1.2−	0.0	2000 03 12	704	0.1+	0.2−
1998 10 21	120	1.2−	0.5−	1998 11 12	046	0.3−	0.2+	2000 03 12	704	0.6+	0.1−
1998 11 08	046	0.0	0.5−	1998 11 12	046	0.3−	0.4+	2000 03 12	704	0.0	0.8+
1998 11 08	046	0.1−	0.0	1998 11 12	046	0.2−	0.3+	2000 03 12	704	0.4+	0.5+
1998 11 08	046	0.1+	0.2+	2000 02 03	704	0.8−	1.1+				
1998 11 08	046	0.0	0.1+	2000 02 03	704	0.0	0.7−				

1998 TG₅ = 2000 FL₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	81.28800		(2000.0)		P		Q
<i>n</i>	0.24267212	ω	29.50083	+0.01787564	−0.99341668		
<i>a</i>	2.5455959	Ω	59.68509	+0.88974666	−0.03582128		
<i>e</i>	0.1739960	<i>i</i>	7.53181	+0.45610453	+0.10881238		
<i>P</i>	4.06	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 13	120	0.3−	0.3+	1998 11 11	704	0.1−	1.0−	2000 03 08	704	0.6+	0.6−
1998 10 13	120	0.3−	0.0	1998 11 11	704	0.3+	1.2−	2000 03 08	704	0.6+	0.5−
1998 10 13	120	0.7−	0.4−	1998 11 11	120	0.4+	0.0	2000 03 08	704	0.1+	0.8−
1998 10 15	120	0.4+	0.3−	1998 11 11	120	0.1+	0.3+	2000 03 08	704	0.8−	0.7−
1998 10 15	120	0.2−	0.1−	1998 11 11	120	0.1−	0.0	2000 03 08	704	0.7−	1.2−
1998 10 15	120	0.1+	0.4−	1998 11 15	104	0.8+	1.4+	2000 03 29	704	0.2−	0.0
1998 10 15	120	0.1−	0.2−	1998 11 15	104	1.1+	1.4+	2000 03 29	704	0.1+	0.8+
1998 10 16	120	0.0	0.9+	1998 11 15	104	1.3+	1.2+	2000 03 29	704	0.2−	0.6+
1998 10 16	120	1.0+	0.2+	1998 11 15	104	0.0	1.0+	2000 03 29	704	0.1−	0.2+
1998 10 16	120	0.4−	0.4+	1998 11 15	104	0.6−	0.6+	2000 03 29	704	0.4+	0.6−
1998 10 20	120	0.1−	0.5−	1998 11 16	104	1.6+	0.8+	2000 04 04	699	0.1−	0.3+
1998 10 20	120	0.3+	0.2−	1998 11 16	104	0.7+	0.9+	2000 04 04	699	0.0	0.8+
1998 10 20	120	(5.3−	0.4+)	1998 11 16	104	0.6+	0.9+	2000 04 04	704	1.0−	1.2−
1998 11 09	104	0.8−	0.0	1998 12 08	699	0.4−	0.7−	2000 04 04	704	0.7+	0.2+
1998 11 09	104	0.6−	0.1−	1998 12 08	699	0.1−	0.7−	2000 04 04	699	0.7+	0.3+
1998 11 09	104	0.5−	0.0	1998 12 08	699	0.1−	0.5−	2000 04 04	704	0.6−	0.9+
1998 11 09	104	0.2−	0.3−	1999 01 09	327	0.3+	0.2−	2000 04 04	699	0.9+	0.0
1998 11 10	704	0.8−	0.2+	1999 01 09	327	0.1+	0.1+	2000 04 04	704	0.4−	0.1+
1998 11 10	704	0.7−	0.1+	1999 01 09	327	0.4+	0.0	2000 04 04	704	0.4+	0.6−
1998 11 10	704	0.7−	0.0	1999 01 10	327	0.1−	0.5−	2000 04 08	704	0.5−	0.3−
1998 11 10	704	0.8−	0.4+	1999 01 10	327	0.2+	0.2−	2000 04 08	704	0.9+	0.9+
1998 11 10	704	1.0−	0.6+	1999 01 10	327	0.4+	0.2−	2000 04 08	704	0.5+	1.7+
1998 11 11	704	0.1−	0.4−	1999 01 11	327	0.0	0.1+	2000 04 13	704	0.2−	1.4+

M.P.C. 40020

1998 11 11	704	0.6−	0.1−	1999 01 11	327	0.4+	0.1+	2000 04 13	704	0.4−	0.2+
1998 11 11	704	0.6−	1.4−	1999 01 11	327	0.2+	0.4−	2000 04 13	704	0.5+	0.1+

1998 TF₆ = 1988 AY₁ = 2000 FK₃₂

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	116.57550		(2000.0)		P		Q
n	0.25845564	ω	343.09951		+0.61822729		−0.78440738
a	2.4408741	Ω	68.68523		+0.72720475		+0.54668319
e	0.1421843	i	3.07666		+0.29827548		+0.29298900
P	3.81	H	14.7	G	0.15	U	3

Residuals in seconds of arc

1988 01 14	046	0.7−	1.7−	1998 11 10	704	0.9−	0.7+	2000 03 08	704	0.1−	0.7+
1988 01 14	046	0.2+	0.6−	1998 11 11	704	0.2+	0.2+	2000 03 08	704	0.3+	0.8+
1998 10 15	120	0.4+	0.1−	1998 11 11	704	1.4+	0.3−	2000 03 08	704	1.7+	0.3+
1998 10 16	120	0.7−	0.2−	1998 11 11	704	0.8−	0.6+	2000 03 08	704	0.2−	0.5−
1998 10 16	120	1.2−	0.3−	1998 11 11	704	0.1+	0.4+	2000 03 29	704	0.5+	0.2+
1998 10 16	120	1.5−	1.7+	1998 11 11	704	0.4−	0.2−	2000 03 29	704	0.4+	0.3+
1998 10 17	691	0.7−	0.2−	1998 11 11	699	0.2+	0.2−	2000 03 29	704	0.0	0.6+
1998 10 17	691	0.6−	0.2−	1998 11 11	699	0.7+	0.2+	2000 03 29	704	0.1+	0.5+
1998 10 17	691	0.7−	0.4−	1998 11 11	699	0.5+	0.0	2000 03 29	704	0.5−	1.0+
1998 10 23	120	0.1−	0.1+	1998 11 14	699	0.0	0.0	2000 04 02	699	0.1−	0.3−
1998 10 23	120	0.4−	0.4−	1998 11 14	699	0.0	0.6+	2000 04 02	699	0.1−	0.2−
1998 10 23	120	0.5−	0.5−	1998 11 14	699	0.1+	0.7+	2000 04 02	699	0.2−	0.2−
1998 10 23	120	0.2−	0.1+	1998 11 15	120	0.3−	0.3+	2000 04 02	699	0.2+	0.0
1998 10 24	120	0.7−	0.0	1998 11 15	120	0.1+	0.0	2000 04 04	704	0.7+	0.9+
1998 10 24	120	0.2−	0.2−	1998 11 24	699	0.7+	0.3−	2000 04 04	704	1.3−	1.3+
1998 10 28	120	0.2+	0.5+	1998 11 24	699	0.5+	1.0+	2000 04 04	704	0.1+	0.1−
1998 10 28	120	0.2−	0.4+	1998 11 24	699	1.9+	0.6+	2000 04 08	704	0.4+	0.6+
1998 10 29	691	0.2−	0.1+	1998 12 08	699	0.4−	0.6+	2000 04 08	704	0.9+	0.4−
1998 10 29	691	0.1+	0.0	1998 12 08	699	0.8+	0.4−	2000 04 08	704	0.4−	0.2+
1998 11 10	704	0.2+	0.5+	1998 12 08	699	0.0	0.1−	2000 04 08	704	0.0	0.4+
1998 11 10	704	0.2+	0.4+	1999 01 06	699	0.3+	1.0−	2000 04 08	704	0.6+	0.1+
1998 11 10	704	0.0	0.6+	1999 01 06	699	1.0+	0.9−				
1998 11 10	704	0.6−	0.9+	1999 01 06	699	0.3+	1.1−				

1998 TD₇ = 2000 DZ₇₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	90.56615		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.29902514	ω	247.43434		+0.35554537		−0.93465856
a	2.2147816	Ω	181.73960		+0.86843993		+0.33072489
e	0.0475071	i	1.76341		+0.34554244		+0.13051602
P	3.30	H	16.3	G	0.15	U	4

Residuals in seconds of arc

1998 10 14	910	0.0	0.3+	2000 02 29	704	0.3+	0.2−	2000 03 10	691	0.0	0.2−
1998 10 14	910	0.1−	0.4+	2000 02 29	704	0.4−	0.1−	2000 03 10	691	0.1+	0.2−
1998 10 14	910	0.0	0.3+	2000 02 29	704	0.3+	0.4+	2000 03 11	704	0.4+	0.3−
1998 10 18	910	0.0	0.2−	2000 03 03	704	0.2−	0.5−	2000 03 11	704	0.6−	0.0
1998 10 18	910	0.1+	0.3−	2000 03 03	704	0.4+	0.1+	2000 03 11	704	0.2−	0.4−
1998 10 18	910	0.4+	0.3−	2000 03 03	704	0.1+	0.3+	2000 03 11	704	0.1+	0.6+
1998 10 22	910	0.2−	0.2−	2000 03 03	704	0.5−	0.3+	2000 03 11	704	0.3−	0.2−
1998 10 22	910	0.1−	0.2−	2000 03 03	704	0.4+	0.5+				
1998 10 22	910	0.0	0.1+	2000 03 10	691	0.1+	0.2−				

1998 TL₇

Id. W. B. Offutt (2000 observations)

2000 APR. 18

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

M	158.46706		(2000.0)		P		Q
n	0.25881579	ω	306.51349		+0.96503139		+0.25993691
a	2.4386092	Ω	38.45278		−0.21971362		+0.87255398
e	0.1976828	i	3.12221		−0.14296973		+0.41362102
P	3.81	H	16.1	G	0.15	U	4

Residuals in seconds of arc

1998 10 14	699	0.7−	0.1+	1998 10 28	704	0.6−	0.6+	2000 04 04	709	1.0+	0.1−
1998 10 14	699	0.8−	0.1−	1998 10 28	704	(2.1−	2.5+)	2000 04 04	709	0.2−	0.1+
1998 10 14	699	0.7+	0.2+	1998 10 29	704	0.3+	0.5−	2000 04 04	709	0.4+	0.1+
1998 10 15	470	1.4+	0.2+	1998 10 29	704	(0.2+	2.4−)	2000 04 04	709	0.1−	0.1+
1998 10 15	470	1.5+	0.0	1998 10 29	704	0.2+	1.5−	2000 04 04	709	0.2+	0.0
1998 10 15	470	1.9+	0.1−	1998 10 29	704	0.1+	1.2−	2000 04 04	709	0.1−	0.3+
1998 10 19	721	0.4−	0.2−	1998 11 11	721	0.8−	1.8+	2000 04 04	709	0.0	0.2−
1998 10 19	721	1.1−	0.0	1998 11 11	721	1.1−	0.8+	2000 04 05	709	0.2+	0.2+
1998 10 19	721	0.9−	0.7+	1998 12 04	709	0.5+	0.8−	2000 04 05	709	0.1−	0.0
1998 10 23	422	0.6−	0.4+	1998 12 04	709	0.5+	0.8−	2000 04 05	709	0.1−	0.3+
1998 10 23	422	0.6−	0.3+	1998 12 04	709	0.8+	0.8−	2000 04 05	709	0.3−	0.1−
1998 10 23	422	0.9−	0.2+	1998 12 04	709	0.4+	0.6−	2000 04 05	709	0.0	0.9+
1998 10 23	422	0.8−	0.0	1998 12 04	709	0.6+	0.6−	2000 04 05	709	0.1−	0.1+
1998 10 28	704	0.1+	1.3+	1998 12 04	709	0.5+	0.6−				
1998 10 28	704	0.2+	1.1+	2000 04 04	709	0.3−	0.3−				

1998 TJ₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	158.98125		(2000.0)		P		Q
n	0.29995019	ω	341.77785		+0.92047249		−0.38896552
a	2.2102257	Ω	41.17680		+0.36533807		+0.82199422
e	0.1222291	i	3.29985		+0.13877497		+0.41597034
P	3.29	H	15.1	G	0.15	U	3

Residuals in seconds of arc

1998 08 31	704	0.7−	1.7−	1998 12 08	699	0.8−	1.4−	2000 04 02	699	1.1−	0.3−
1998 08 31	704	0.6+	0.4−	1999 01 06	699	1.0+	0.2−	2000 04 02	699	0.9−	0.1−
1998 08 31	704	1.2+	0.2−	1999 01 06	699	0.1−	0.1+	2000 04 02	699	0.4−	0.3+
1998 08 31	704	0.9+	0.3−	1999 01 06	699	1.0+	0.7+	2000 04 05	704	0.0	0.4+
1998 08 31	704	2.0−	0.3+	1999 01 11	704	0.1+	1.3+	2000 04 05	704	0.1−	0.4+
1998 10 10	699	0.0	0.3−	1999 01 11	704	1.5+	0.7+	2000 04 05	704	1.0−	1.6−
1998 10 10	699	0.2+	1.2+	1999 01 11	704	(2.8+	0.9+)	2000 04 05	704	0.0	0.7+
1998 10 10	699	0.2−	0.6−	1999 01 13	910	0.3−	0.3−	2000 04 05	704	0.3+	0.6+
1998 10 13	691	0.3−	0.2+	1999 01 13	910	0.4−	0.4−	2000 04 06	699	0.1−	0.1+
1998 10 13	691	0.3−	0.3+	1999 01 13	910	0.5−	0.4−	2000 04 06	704	(0.1−	3.1+)
1998 10 13	691	0.2−	0.2+	1999 01 14	910	0.4−	0.5−	2000 04 06	699	0.8+	0.6+
1998 10 18	691	0.7−	0.2+	1999 01 14	910	0.3−	0.4−	2000 04 06	704	0.1+	1.1+
1998 10 18	691	0.5−	0.1+	1999 01 14	910	0.2−	0.6−	2000 04 06	704	0.0	0.7+
1998 10 28	691	0.5+	0.1+	1999 01 19	910	0.4−	0.7−	2000 04 06	699	0.5+	0.1+
1998 10 28	691	0.4+	0.0	1999 01 19	910	0.2−	0.4−	2000 04 06	704	0.0	0.6+
1998 10 28	691	0.6+	0.1−	1999 01 19	910	0.3−	0.8−	2000 04 06	699	0.1+	0.5+
1998 11 10	704	0.3−	0.2+	2000 03 04	703	0.0	0.8−	2000 04 06	704	0.2+	0.6+
1998 11 10	704	0.5−	0.8+	2000 03 04	703	0.6+	0.0	2000 04 07	704	0.3+	1.0+
1998 11 10	704	0.0	0.3+	2000 03 04	703	0.3+	0.3−	2000 04 07	704	0.4+	0.9−
1998 11 10	704	0.1+	0.3−	2000 03 04	703	0.2−	0.3−	2000 04 07	704	0.3+	0.6+
1998 11 10	704	0.5+	0.4+	2000 03 07	120	0.8+	0.1+	2000 04 07	704	0.4+	0.8+
1998 11 11	704	0.1−	0.8+	2000 03 07	120	1.4−	1.3−	2000 04 07	704	0.2+	1.0+
1998 11 11	704	0.2+	0.3−	2000 03 07	120	0.9+	0.1−	2000 04 10	704	0.0	0.2+
1998 11 11	704	0.2+	0.1−	2000 03 27	699	0.3+	0.3−	2000 04 10	704	0.4+	0.6−
1998 11 11	704	0.3+	0.3+	2000 03 27	699	0.2+	0.8−	2000 04 10	704	0.5−	0.4−
1998 11 11	704	0.6−	1.6+	2000 03 27	699	0.3−	0.3−	2000 04 10	704	0.1+	0.5−
1998 12 08	699	0.5+	0.5−	2000 03 27	699	0.5+	0.5−	2000 04 10	704	0.3−	0.5−
1998 12 08	699	0.0	0.3+	2000 04 02	699	0.5−	0.0				

2000 APR. 18

M.P.C. 40021

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.94931	(2000.0)	Williams	
<i>n</i>	0.30402934	ω	100.68509	P
<i>a</i>	2.1904115	Ω	37.43837	Q
<i>e</i>	0.0436024	i	1.09508	U
<i>P</i>	3.24	H	16.0	4

Residuals in seconds of arc

1998 09 25	327	0.1+	0.7+	2000 03 11	704	0.3+	0.4+	2000 04 05	704	0.0	0.6-
1998 09 25	327	0.4-	0.4+	2000 03 11	704	0.1-	0.2+	2000 04 06	704	0.4-	0.3-
1998 09 25	327	1.3-	0.4+	2000 03 11	704	0.0	0.0	2000 04 06	704	0.9+	0.5+
1998 10 14	691	0.2-	0.2+	2000 03 11	704	0.7+	0.9+	2000 04 06	704	1.6+	0.3-
1998 10 14	691	0.0	0.1+	2000 03 26	684	0.8-	0.2-	2000 04 06	704	0.4-	0.6-
1998 10 14	691	0.4-	0.1+	2000 03 26	684	0.5-	0.4-	2000 04 07	699	0.0	0.4+
1998 10 18	691	0.3+	0.1+	2000 03 27	684	0.1-	0.7-	2000 04 07	699	0.5-	0.4+
1998 10 18	691	0.4+	0.2+	2000 03 27	684	0.1-	0.8-	2000 04 07	699	0.1+	0.4+
1998 10 18	691	0.2+	0.3+	2000 03 27	699	0.7+	0.3+	2000 04 07	699	0.2+	0.0
1998 10 22	691	0.7+	0.0	2000 03 27	684	0.3-	0.7-	2000 04 10	704	0.4-	1.1+
1998 10 22	691	0.8+	0.2-	2000 03 27	699	0.4+	0.1+	2000 04 10	704	0.4-	0.1-
1998 10 22	691	0.9+	0.3-	2000 03 27	699	0.5+	0.3+	2000 04 10	704	1.0-	0.5+
1998 10 23	691	0.7-	0.2-	2000 03 27	699	0.2+	0.8+	2000 04 10	704	0.2+	0.0
1998 10 23	691	0.7-	0.2-	2000 04 04	704	0.2+	0.1-	2000 04 10	704	0.2-	0.5-
1998 10 23	691	0.6-	0.2-	2000 04 04	704	0.4-	0.1+	2000 04 10	704	0.2+	1.8+
2000 03 08	704	0.3-	0.0	2000 04 04	704	0.3+	0.4+	2000 04 10	704	0.8-	0.1+
2000 03 08	704	0.4-	0.4-	2000 04 04	704	0.0	0.3+	2000 04 10	704	0.5-	0.7+
2000 03 08	704	(0.2-	2.2-)	2000 04 04	704	(0.0	2.0+)	2000 04 10	704	1.2-	0.9+
2000 03 10	704	0.0	0.0	2000 04 05	704	0.5+	0.7-	2000 04 10	704	0.2-	0.4+
2000 03 10	704	0.2+	0.6+	2000 04 05	704	0.4+	0.5-	2000 04 10	608	0.1+	0.5-
2000 03 10	704	0.3-	0.6-	2000 04 05	704	1.0+	0.3-	2000 04 10	608	0.2+	1.6-
2000 03 10	704	0.1-	0.1-	2000 04 05	704	1.0+	0.1+	2000 04 10	608	0.0	0.3-

1998 TD₁₅ = 1990 WL₁₀ = 2000 EO₁₄₄

Id. G. V. Williams, M. E. Sansatutio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	134.50425	(2000.0)	Williams	
<i>n</i>	0.24176758	ω	162.91517	P
<i>a</i>	2.5519412	Ω	216.63741	Q
<i>e</i>	0.0936993	i	14.06877	U
<i>P</i>	4.08	H	15.2	3

Residuals in seconds of arc

1990 11 21	809	1.2-	0.2-	1998 11 10	704	1.2+	0.5-	1998 11 14	699	0.3-	0.5+
1990 11 21	809	0.5+	0.6+	1998 11 10	704	0.9-	0.9+	1998 11 14	699	0.6-	0.6-
1990 11 21	809	0.7+	0.6+	1998 11 10	704	(2.6+	1.3+)	1998 11 15	120	0.7-	0.1-
1998 10 14	691	1.3-	0.0	1998 11 10	704	0.1+	1.0+	1998 11 15	120	(2.0-	0.2+)
1998 10 14	691	1.0-	0.2-	1998 11 11	704	0.4+	1.0-	2000 03 03	703	0.1+	0.7+
1998 10 14	691	1.2-	0.2-	1998 11 11	704	0.5+	0.1+	2000 03 03	703	0.0	0.2-
1998 10 18	691	0.3+	0.2-	1998 11 11	704	0.7+	1.4+	2000 03 03	703	1.6-	0.9-
1998 10 18	699	1.0+	0.3+	1998 11 11	704	1.2+	0.7-	2000 03 03	703	0.5+	0.1+
1998 10 18	691	0.0	0.2-	1998 11 11	704	0.7-	1.3-	2000 03 09	704	0.4-	1.0-
1998 10 18	699	0.3-	0.2+	1998 11 11	699	0.8+	0.5-	2000 03 09	704	0.0	0.4-
1998 10 18	691	0.5+	0.4-	1998 11 11	699	1.2+	0.2+	2000 03 09	704	1.3+	1.2+
1998 10 18	699	1.8-	0.2-	1998 11 11	699	0.6+	1.2+				
1998 11 10	704	0.9+	0.4+	1998 11 14	699	0.6-	1.3-				

1998 TR₁₅ = 2000 EH₁₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	34.29487	(2000.0)	Williams	
<i>n</i>	0.27730433	ω	139.35850	P
<i>a</i>	2.3289757	Ω	5.24697	Q
<i>e</i>	0.0978411	i	5.04574	U
<i>P</i>	3.55	H	15.0	4

Residuals in seconds of arc

1998 10 11	699	0.4-	0.4-	1998 10 29	704	1.6-	0.6+	2000 03 09	704	0.3-	0.0
1998 10 11	699	0.9+	1.2-	1998 10 29	704	0.5-	0.7+	2000 03 14	703	0.9-	0.4+
1998 10 11	699	1.2-	0.2+	1998 10 29	704	1.7-	0.0	2000 03 14	703	1.2-	0.5-
1998 10 15	910	0.7+	0.0	1998 11 11	120	1.1+	0.8-	2000 03 14	703	0.9-	0.7-
1998 10 15	910	0.6+	0.2-	1998 11 11	120	0.0	0.1-	2000 03 14	703	0.8-	0.5+
1998 10 15	910	0.4+	0.1-	1998 11 11	120	0.5+	0.6-	2000 04 06	704	0.2+	0.1-
1998 10 20	910	0.7+	0.2+	1998 11 12	120	(4.4-	2.7-)	2000 04 06	704	0.4+	0.4-
1998 10 20	910	0.6+	0.0	1998 11 12	120	(2.3-	0.2-)	2000 04 06	704	0.6+	0.1-
1998 10 20	910	0.7+	0.0	1998 11 13	120	(2.6-	1.4-)	2000 04 06	704	0.4+	0.4+
1998 10 21	910	1.0+	0.1+	1998 11 15	120	0.6-	0.2-	2000 04 06	704	0.8+	0.4+
1998 10 21	910	0.9+	0.2+	1998 11 15	120	0.1-	1.6-	2000 04 07	704	0.1+	0.4-
1998 10 21	910	1.0+	0.2+	2000 02 02	704	0.7+	0.9-	2000 04 07	704	0.3+	0.1-
1998 10 27	120	0.7-	0.4-	2000 02 02	704	0.4+	0.7+	2000 04 07	704	0.2-	0.4+
1998 10 27	120	1.3-	1.3+	2000 02 02	704	1.2-	0.0	2000 04 07	704	0.4-	0.4+
1998 10 27	120	0.2-	0.1-	2000 03 04	703	0.5+	0.2+	2000 04 07	704	0.2-	0.9+
1998 10 28	704	0.6+	1.8+	2000 03 04	703	0.0	0.2-	2000 04 10	704	0.4+	0.1-
1998 10 28	704	0.2-	0.9+	2000 03 04	703	0.5-	0.3+	2000 04 10	704	0.5+	0.1-
1998 10 28	704	1.6-	0.1-	2000 03 04	703	0.0	0.7-	2000 04 10	704	0.9+	0.3-
1998 10 28	704	0.5-	0.4+	2000 03 09	704	0.4+	1.2+	2000 04 10	704	0.5+	0.3+
1998 10 29	704	0.6+	0.6+	2000 03 09	704	0.3-	0.5-	2000 04 10	704	0.1+	0.4+

1998 TE₁₆ = 1994 RM₁₈ = 2000 CB₁₀₀

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.12616	(2000.0)	Williams	
<i>n</i>	0.26691415	ω	326.88390	P
<i>a</i>	2.3890303	Ω	345.41536	Q
<i>e</i>	0.1718882	i	1.69049	U
<i>P</i>	3.69	H	16.1	4

Residuals in seconds of arc

1994 09 03	809	0.9+	0.0	1998 10 15	910	0.6-	0.1-	1998 11 11	704	(3.1-	0.6+)
1994 09 03	809	0.1-	0.4+	1998 10 15	910	0.6-	0.1+	1998 11 11	704	(6.5-	0.1-)
1994 09 03	809	0.2-	0.1-	1998 10 20	910	0.3+	0.0	2000 02 10	691	0.0	0.0
1994 09 04	809	0.2+	0.5-	1998 10 20	910	0.3+	0.0	2000 02 10	691	0.0	0.1+
1994 09 04	809	0.0	0.1+	1998 10 20	910	0.2+	0.0	2000 02 10	691	0.3+	0.0
1994 09 04	809	0.8-	0.3-	1998 10 21	910	0.2+	0.4+	2000 02 14	691	0.0	0.3-
1994 09 05	809	(3.3+	2.4-)	1998 10 21	910	0.1+	0.5+	2000 02 14	691	0.0	0.1-
1994 09 05	809	(3.1+	2.1-)	1998 10 21	910	0.4+	0.4+	2000 02 14	691	0.4-	0.0
1994 09 05	809	(3.4+	2.3-)	1998 11 11	704	(3.1-	2.0+)				
1998 10 15	910	0.5-	0.2-	1998 11 11	704	0.3+	0.9-				

1998 TK₁₇ = 2000 EL₁₄₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.28524	(2000.0)	Williams	
<i>n</i>	0.29705853	ω	171.13972	P
<i>a</i>	2.2245459	Ω	15.83801	Q
<i>e</i>	0.1227123	i	5.29724	U
<i>P</i>	3.32	H	15.7	4

Residuals in seconds of arc

1998 10 15	910	1.0+	0.2+	2000 03 27	699	0.7-	0.4-	2000 04 06	704	0.3+	0.1+
1998 10 15	910	1.0+	0.5+	2000 03 27	699	0.1-	0.3-	2000 04 06	699	0.2+	0.4-
1998 10 15	910	1.1+	0.1+	2000 03 27	699	0.3+	0.0	2000 04 06	704	0.2+	0.3+
1998 10 17	327	1.2-	1.2-	2000 04 02	699	0.1-	0.0	2000 04 06	691	1.2-	0.5-
1998 10 17	327	0.8-	0.8-	2000 04 02	699	0.0	0.1+	2000 04 06	691	1.4-	0.5-
1998 10 17	327	0.9-	0.3+	2000 04 02	699	0.1-	0.2+	2000 04 06	691	1.6-	0.3-
1998 10 21	910	0.2+	0.0	2000 04 02	699	0.4-	0.2+	2000 04 07	704	0.4+	0.4+
1998 10 21	910	0.0	0.1+	2000 04 03	699	0.5-	0.4-	2000 04 07	704	0.2-	0.1-
1998 10 22	910	0.1+	0.1+	2000 04 03	699	0.4-	0.0	2000 04 07	704	0.0	0.0
2000 03 04	703	0.2+	0.6+	2000 04 03	699	0.5-	0.0	2000 04 07	704	0.6+	0.5+
2000 03 04	703	0.0	0.4+	2000 04 03	699	0.5-	0.1-	2000 04 07	704	0.6-	0.0
2000 03 04	703	0.5+	0.3-	2000 04 05	704	0.3+	0.2-	2000 04 08	704	0.3+	0.4-
2000 03 04	703	0.8+	0.5+	2000 04 05	704	0.1+	0.0	2000 04 08	704	0.6+	0.3-

M.P.C. 40022

2000 APR. 18

2000 03 09	704	0.2+	0.0	2000 04 05	704	0.2+	0.0	2000 04 08	704	0.7+	0.2+
2000 03 09	704	0.6+	0.0	2000 04 05	704	0.4+	0.2+	2000 04 08	704	0.8+	0.4+
2000 03 09	704	0.1+	0.4+	2000 04 05	704	0.2+	0.0	2000 04 08	704	0.1+	0.3-
2000 03 09	704	1.0-	0.2+	2000 04 06	699	0.1+	0.1+	2000 04 10	704	0.8+	0.2+
2000 03 09	704	0.3+	0.1-	2000 04 06	704	0.3+	0.1-	2000 04 10	704	1.1+	0.6+
2000 03 27	691	0.3-	0.6-	2000 04 06	699	0.2-	0.1-	2000 04 10	704	0.6+	0.3+
2000 03 27	691	0.2-	0.6-	2000 04 06	704	0.3+	0.1-	2000 04 10	704	0.3-	0.6+
2000 03 27	699	0.2-	0.4-	2000 04 06	704	0.3+	0.0	2000 04 10	704	0.8-	0.2+
2000 03 27	691	0.3-	0.5-	2000 04 06	699	0.1-	0.1+				

1998 TW₁₇ = 2000 GO₁₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26181414	ω	326.38725	+0.57133371	-0.81943476		
<i>a</i>	2.4199552	Ω	88.72876	+0.76273725	+0.50950488		
<i>e</i>	0.1642212	<i>i</i>	2.62999	+0.30300112	+0.26254800		
<i>P</i>	3.76	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 22	691	0.2-	0.8-	1998 10 24	120	0.8-	1.1+	1998 11 11	704	0.6-	0.5-
1996 05 22	691	0.5-	0.7-	1998 11 06	120	0.7+	0.2-	1998 11 14	699	0.4+	0.6+
1996 05 22	691	0.2-	0.8-	1998 11 06	120	0.0	1.7+	1998 11 14	699	(2.4+, 0.1-)	
1998 10 13	120	0.9+	0.8-	1998 11 10	704	0.2-	0.0	1998 11 14	699	1.8+	1.0+
1998 10 13	120	0.2-	0.6+	1998 11 10	704	0.9-	0.6-	2000 04 04	704	0.9+	1.1+
1998 10 14	699	0.5-	0.2+	1998 11 10	704	0.7-	0.3-	2000 04 04	704	0.1-	0.7+
1998 10 14	699	0.6-	0.0	1998 11 10	704	0.1-	1.0-	2000 04 04	704	0.1+	0.3-
1998 10 14	699	(0.9-, 2.5+)		1998 11 10	704	1.2+	1.5-	2000 04 04	704	0.2+	0.5+
1998 10 20	699	0.2-	0.3+	1998 11 11	704	0.1-	0.9+	2000 04 04	704	0.4+	0.2-
1998 10 20	699	0.4-	0.2-	1998 11 11	704	0.3-	0.3+	2000 04 10	704	0.0	0.1+
1998 10 20	699	0.4+	0.6-	1998 11 11	704	0.3+	0.2-	2000 04 10	704	0.0	0.6+
1998 10 24	120	0.8-	0.1+	1998 11 11	704	0.4+	0.1-	2000 04 10	704	0.6-	0.1-

1998 TF₁₈ = 2000 EA₁₅₁

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23932299	ω	217.32096	+0.47658836	-0.87853159		
<i>a</i>	2.5692899	Ω	204.26656	+0.82437065	+0.45938106		
<i>e</i>	0.1895419	<i>i</i>	4.51304	+0.30541212	+0.13096294		
<i>P</i>	4.12	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 10	699	0.2+	0.1-	1998 10 29	327	0.3+	0.0	2000 03 03	703	1.0+	0.0
1998 10 10	699	0.1+	0.3+	1998 10 29	327	0.2-	0.2+	2000 03 05	608	0.1+	0.7-
1998 10 10	699	0.2+	0.0	1998 10 29	327	0.2-	0.2+	2000 03 05	608	0.3+	0.2-
1998 10 13	327	0.4-	0.1-	1998 10 30	327	0.2+	0.0	2000 03 05	608	0.6+	0.9-
1998 10 13	327	0.2-	0.0	1998 10 30	327	0.0	0.2+	2000 03 09	704	0.4+	0.1+
1998 10 13	327	0.1-	0.3-	1998 10 30	327	0.0	0.2+	2000 03 09	704	0.4+	0.1+
1998 10 14	327	0.1-	0.1+	1998 11 10	704	0.2+	0.4-	2000 03 09	704	0.4-	1.2+
1998 10 14	327	0.1-	0.1+	1998 11 10	704	0.3+	0.2+	2000 03 09	704	0.8+	0.3-
1998 10 14	327	0.3-	0.1+	1998 11 10	704	0.1+	0.3-	2000 03 09	704	0.1+	0.2+
1998 10 15	327	0.2+	0.2+	1998 11 10	704	0.3-	0.2+	2000 03 26	699	0.4-	0.0
1998 10 15	327	0.0	0.0	1998 11 11	704	0.1+	0.0	2000 03 26	699	1.1-	0.8+
1998 10 15	327	0.0	0.1+	1998 11 11	704	0.9+	0.8-	2000 03 26	699	0.6-	0.3-
1998 10 17	327	0.4+	0.5-	1998 11 11	704	0.2-	0.7-	2000 03 26	699	1.1-	1.1+
1998 10 17	327	0.2+	0.4-	1998 11 11	704	0.4-	0.1+	2000 04 05	704	0.6+	0.2+
1998 10 17	327	0.2+	0.4-	1998 11 11	704	0.9-	0.6+	2000 04 05	704	0.0	0.6-
1998 10 18	327	0.0	0.3-	1998 11 14	699	0.9-	0.2+	2000 04 05	704	0.0	0.2-
1998 10 18	327	0.1-	0.2-	1998 11 14	699	0.4+	1.4+	2000 04 05	704	0.2+	0.3-
1998 10 18	327	0.1+	0.5-	1998 11 14	699	0.0	0.5+	2000 04 05	704	0.3+	0.6-
1998 10 28	704	0.5+	0.7-	1998 11 23	699	0.6-	0.1+	2000 04 06	704	0.6+	0.1-
1998 10 28	704	0.2+	0.4-	1998 11 23	699	0.0	0.4-	2000 04 06	704	0.2+	0.4-
1998 10 28	704	0.9+	0.6-	1998 11 23	699	0.2+	0.7+	2000 04 06	704	0.4-	0.0
1998 10 28	704	0.0	0.4+	1998 12 11	699	0.0	1.0+	2000 04 06	704	0.5+	0.4+
1998 10 29	704	0.2+	0.6+	1998 12 11	699	0.2+	0.9-	2000 04 06	704	0.7+	0.5-
1998 10 29	704	0.2-	0.1+	1998 12 11	699	0.5+	0.3-	2000 04 07	699	0.2+	0.0

1998 10 29	704	0.4-	0.0	2000 03 03	703	0.4-	0.3-	2000 04 07	699	0.2-	0.6-
1998 10 29	704	0.7-	0.0	2000 03 03	703	1.0-	0.5+	2000 04 07	699	0.5-	0.9+
1998 10 29	704	0.4-	0.2+	2000 03 03	703	0.7-	0.4-	2000 04 07	699	0.4-	0.5+

1998 TF₂₁ = 2000 DA₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23326460	ω	128.68339	-0.87962605	-0.47464013		
<i>a</i>	2.6135862	Ω	23.03145	+0.40787719	-0.78641171		
<i>e</i>	0.0400185	<i>i</i>	4.57715	+0.24473295	-0.39531427		
<i>P</i>	4.23	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 17	566	0.1-	0.3-	1998 10 29	704	0.1+	0.2-	2000 02 28	704	0.3+	0.6+
1996 04 17	566	0.2-	0.7-	1998 11 11	704	0.9+	0.3+	2000 02 28	704	0.4+	0.3+
1996 04 17	566	0.5-	0.5-	1998 11 11	704	0.8-	0.9-	2000 02 28	704	0.5+	0.3-
1998 08 31	910	0.3-	0.0	1998 11 11	704	0.4-	1.0-	2000 02 28	704	0.0	0.1-
1998 08 31	910	0.6-	0.5-	1998 11 11	704	0.5+	1.4-	2000 03 05	704	0.5+	0.4+
1998 08 31	910	0.3-	0.3-	1998 11 11	704	(2.4+, 1.7-)		2000 03 05	704	0.1+	0.6+
1998 10 13	691	0.4-	0.3+	2000 02 03	704	0.3-	0.5-	2000 03 05	704	0.3+	0.0
1998 10 13	691	0.7-	0.0	2000 02 03	704	0.5-	0.2+	2000 03 05	704	0.3-	0.8+
1998 10 13	691	0.7-	0.2+	2000 02 03	704	0.2+	0.8-	2000 03 11	699	0.8-	0.9+
1998 10 19	691	0.1+	0.6+	2000 02 03	704	0.2+	0.1-	2000 03 11	699	0.2-	0.3-
1998 10 19	691	0.1+	0.2+	2000 02 03	704	0.6+	0.5-	2000 03 11	699	0.8-	0.4+
1998 10 19	691	0.2+	0.1+	2000 02 06	703	0.1+	0.2-	2000 03 11	699	1.2-	0.5+
1998 10 28	704	0.2-	1.3+	2000 02 06	703	0.4-	0.5-	2000 03 12	704	0.2+	0.4-
1998 10 28	704	1.6+	0.4+	2000 02 06	703	0.6-	0.4+	2000 03 12	704	0.1+	1.0+
1998 10 28	704	0.9+	0.9-	2000 02 06	703	0.5+	0.4-	2000 03 12	704	0.6-	0.2-
1998 10 28	704	0.2-	1.0+	2000 02 11	704	0.4+	0.3+	2000 03 12	704	0.0	0.6+
1998 10 29	704	0.2-	1.2-	2000 02 11	704	0.1+	0.9+	2000 03 14	608	0.0	0.9-
1998 10 29	704	0.3+	0.8+	2000 02 11	704	0.4-	0.4+	2000 03 14	608	0.4+	1.7-
1998 10 29	704	(0.6+, 2.3+)		2000 02 11	704	0.4+	0.1+	2000 03 14	608	0.4+	0.5-
1998 10 29	704	0.5+	0.0	2000 02 11	704	0.5+	0.1-				

1998 TN₂₂ = 2000 CD₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler				Doppler			
<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17134797	ω	233.81219	+0.09407224	-0.99503515		
<i>a</i>	3.2103329	Ω	210.83776	+0.93255374	+0.09949636		
<i>e</i>	0.0945426	<i>i</i>	3.63371	+0.34855980	+0.00235105		
<i>P</i>	5.75	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 13	691	0.5-	0.4+	1998 10 27	691	0.0	0.0	2000 02 02	704	0.5+	0.5+
1998 10 13	691	0.3+	0.1-	1998 10 27	691	0.1-	0.0	2000 02 05	704	0.2+	0.2+
1998 10 13	691	0.1-	0.1+	1998 10 27	691	0.2-	0.3+	2000 02 05	704	0.4+	0.8-
1998 10 19	691	0.2+	0.2-	2000 02 02	704	0.3-	0.4+	2000 02 05	704	0.4-	0.5+
1998 10 19	691	0.2+	0.3-	2000 02 02	704	0.3-	0.8-				
1998 10 19	691	0.2+	0.2-	2000 02 02	704	0.1-	0.0				

1998 TJ₂₉ = 2000 GC₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams</

2000 APR. 18

M.P.C. 40023

1998 10 20	691	0.3−	0.0	1998 11 15	691	0.4−	0.1−	2000 04 07	704	0.3+	0.2+
1998 10 20	691	0.3−	0.1−	1998 11 15	691	0.5−	0.2+	2000 04 07	704	0.5+	0.2+
1998 10 20	691	0.1+	0.0	1998 11 15	691	0.4−	0.3+	2000 04 07	704	0.1−	0.1−
1998 11 10	704	0.0	0.8+	2000 04 05	704	1.3−	0.1−	2000 04 07	704	1.8−	1.8+
1998 11 10	704	0.2+	0.2+	2000 04 05	704	0.4−	0.1−				
1998 11 10	704	0.3+	0.9−	2000 04 05	704	0.4+	0.4−				

1998 TX₃₀ = 2000 GV₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.69428		(2000.0)	P	Q		
<i>n</i>	0.29782742	ω	77.84829	+0.03571662	−0.99919233		
<i>a</i>	2.2207155	Ω	10.15888	+0.87150940	+0.02212540		
<i>e</i>	0.1005041	<i>i</i>	5.99210	+0.48907636	+0.03354338		
<i>P</i>	3.31	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 02 22	691	0.3−	0.4+	1998 11 11	704	0.3+	1.1−	1999 01 11	704	(2.3−	1.9−)
1993 02 22	691	0.3−	0.1+	1998 11 11	704	0.8+	1.2−	1999 01 11	704	0.6−	0.1−
1993 02 22	691	0.7+	0.3−	1998 11 11	704	0.8+	1.3−	1999 01 11	704	1.3+	0.4−
1998 10 10	699	0.4−	0.1−	1998 11 20	704	0.6+	0.6+	1999 01 11	704	0.3−	0.7−
1998 10 10	699	0.9−	0.3−	1998 11 20	704	0.5−	0.4−	2000 04 06	704	0.0	0.4−
1998 10 10	699	0.3−	0.4−	1998 11 20	704	0.6−	1.3+	2000 04 06	704	0.1+	0.3+
1998 10 19	699	0.1−	0.1+	1998 11 20	704	1.4−	1.5−	2000 04 06	704	0.0	0.6−
1998 10 19	699	0.2−	0.1−	1999 01 08	704	0.0	1.1−	2000 04 06	704	0.1−	0.4+
1998 10 19	699	0.2+	0.4+	1999 01 08	704	0.1−	0.9+	2000 04 06	704	0.3−	0.2−
1998 11 10	704	0.2−	0.2−	1999 01 08	699	0.8−	0.7+	2000 04 08	704	0.5−	1.0−
1998 11 10	704	0.4+	0.6+	1999 01 08	704	(0.3+	2.3+)	2000 04 08	704	0.5+	0.4−
1998 11 10	704	0.1−	0.1+	1999 01 08	704	(0.6+	2.2+)	2000 04 08	704	0.3+	0.2+
1998 11 10	704	0.6+	1.1+	1999 01 08	704	0.9+	1.7+	2000 04 08	704	0.3+	0.1−
1998 11 10	704	0.8+	0.2+	1999 01 08	699	0.2+	0.5−	2000 04 08	704	1.5−	0.7−
1998 11 11	704	0.9+	0.5−	1999 01 08	699	0.7−	0.6+				

1998 TA₃₁ = 2000 GB₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.88380		(2000.0)	P	Q		
<i>n</i>	0.23751114	ω	125.67819	−0.76439133	−0.64444881		
<i>a</i>	2.5823399	Ω	14.23231	+0.56249091	−0.68155294		
<i>e</i>	0.1967167	<i>i</i>	4.61687	+0.31513468	−0.34665735		
<i>P</i>	4.15	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 10	699	0.4−	1.0+	1999 11 16	703	0.4−	0.1+	2000 04 06	704	0.0	0.1+
1998 10 10	699	0.4−	0.6+	1999 11 16	703	0.0	0.4+	2000 04 07	704	0.0	0.1+
1998 10 10	699	0.8+	0.8+	1999 11 16	703	0.2+	0.3−	2000 04 07	704	0.4−	0.3−
1998 10 19	699	0.1+	0.7+	1999 11 16	703	0.1+	0.7+	2000 04 07	704	0.0	0.7+
1998 10 19	699	0.6+	0.3+	2000 02 10	704	0.5+	0.0	2000 04 07	704	0.0	0.1+
1998 10 19	699	0.2−	1.3+	2000 02 10	704	0.5+	1.2−	2000 04 07	704	0.4−	0.3+
1998 11 10	704	0.2−	1.1−	2000 02 10	704	0.1+	0.6−	2000 04 08	704	0.2−	0.2−
1998 11 10	704	0.3+	1.5−	2000 04 05	704	0.2+	0.0	2000 04 08	704	0.7−	0.0
1998 11 10	704	0.6+	1.5−	2000 04 05	704	0.0	0.1−	2000 04 08	704	0.2−	0.2+
1998 11 10	704	0.9−	1.6−	2000 04 05	704	1.8+	1.7+	2000 04 08	704	0.5−	0.1−
1998 11 10	704	(0.2−	2.5−)	2000 04 05	704	1.2−	1.7+	2000 04 08	704	0.3+	0.0
1998 11 11	704	0.3−	0.0	2000 04 05	704	0.1+	0.4−	2000 04 12	608	0.5+	0.8−
1998 11 11	704	0.1−	0.3+	2000 04 06	704	0.3−	0.2+	2000 04 12	608	0.5+	0.7−
1998 11 11	704	0.2−	1.2+	2000 04 06	704	0.1−	0.1+	2000 04 12	608	0.4+	0.6−
1998 11 11	704	0.6−	0.6−	2000 04 06	704	0.2−	0.1+				
1998 11 11	704	0.5+	1.4+	2000 04 06	704	0.3+	0.0				

1998 TC₃₂ = 1981 US₆ = 2000 GX₁₀₅

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	30.92011		(2000.0)	P	Q		
<i>n</i>	0.28757426	ω	267.31214	−0.89022300	−0.44961889		
<i>a</i>	2.2731916	Ω	245.95980	+0.44325591	−0.81801313		
<i>e</i>	0.0909162	<i>i</i>	4.59201	+0.10501056	−0.35874415		
<i>P</i>	3.43	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1981 10 30	381	0.1−	0.7−	1998 10 29	704	0.7−	0.4+	2000 03 14	704	(3.8−	1.4+)
1981 10 30	381	0.4+	1.1−	1998 10 29	704	0.2−	0.0	2000 04 07	704	0.0	0.3+
1998 06 24	691	0.8+	0.3+	1998 10 29	704	0.2+	0.4−	2000 04 07	704	0.2+	0.1+
1998 06 24	691	0.3−	0.8+	1998 10 29	704	0.3+	0.4−	2000 04 07	704	0.6−	0.5+
1998 06 24	691	0.1−	0.8+	1998 10 29	704	1.0−	0.6−	2000 04 07	704	0.2−	0.2+
1998 10 11	699	0.5−	0.5+	1998 11 11	704	0.2−	0.1+	2000 04 07	704	0.1+	0.7+
1998 10 11	699	0.2−	0.8+	1998 11 11	704	0.2+	0.1−	2000 04 08	704	0.1+	0.1+
1998 10 11	699	0.7−	0.7+	1998 11 11	704	0.7−	0.2+	2000 04 08	704	0.3+	0.1+
1998 10 19	699	0.2+	0.3−	1998 11 11	704	0.4−	0.5+	2000 04 08	704	0.3−	0.2+
1998 10 19	699	0.0	0.9+	1998 11 11	704	0.3−	1.3+	2000 04 08	704	0.0	0.2−
1998 10 19	699	0.2+	0.5+	1998 11 20	699	0.7+	0.7+	2000 04 08	704	0.1+	0.0
1998 10 28	704	0.1+	0.1−	1998 11 20	699	1.3+	0.3+	2000 04 10	704	0.2+	0.3+
1998 10 28	704	0.1+	0.4−	1998 11 20	699	1.5+	1.3+	2000 04 10	704	0.3+	0.1−
1998 10 28	704	0.3−	0.7−	2000 03 14	704	0.5+	0.0	2000 04 10	704	0.2+	0.2−
1998 10 28	704	1.1−	1.0−	2000 03 14	704	0.0	1.6+	2000 04 10	704	0.1−	0.3−

1998 TH₃₃ = 1998 VB₁₁ = 2000 EB₁₂₀Id. A. Doppler (*MPC* 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	210.64313		(2000.0)	P	Q		
<i>n</i>	0.29330196	ω	265.87903	+0.62964056	+0.77252154		
<i>a</i>	2.2435000	Ω	43.50813	−0.65695419	+0.58595200		
<i>e</i>	0.1673596	<i>i</i>	6.86058	−0.41468538	+0.24468496		
<i>P</i>	3.36	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	0.2−	0.8−	1998 11 11	704	0.5+	1.2−	2000 02 06	703	0.5−	0.1+
1998 10 14	699	0.3+	0.3+	1998 11 11	704	0.9+	0.4+	2000 02 06	703	0.6+	0.6−
1998 10 14	699	0.2+	0.0	1998 11 11	704	0.5−	0.3+	2000 03 04	704	0.6+	0.3+
1998 10 20	699	0.1−	0.2+	1998 11 11	704	1.5+	0.9−	2000 03 04	704	0.3+	0.5−
1998 10 20	699	0.1−	0.1−	1998 11 11	704	0.8+	1.1−	2000 03 04	704	0.1+	0.4−
1998 10 20	699	0.3+	0.0	1998 11 14	699	0.5−	0.8+	2000 03 04	704	0.3+	0.5−
1998 10 29	704	0.1−	0.1+	1998 11 14	699	0.3−	1.0+	2000 03 04	704	0.2−	0.6−
1998 10 29	704	0.6−	0.3−	1998 11 14	699	0.2−	0.8+	2000 03 11	699	0.4+	0.5+
1998 10 29	704	0.3+	0.3+	2000 02 03	704	0.3−	1.0+	2000 03 11	699	1.0−	1.0−
1998 10 29	704	1.1−	0.2+	2000 02 03	704	0.2−	0.2+	2000 03 11	699	0.2−	0.8−
1998 10 29	704	0.2+	1.1+	2000 02 03	704	1.2+	0.4−	2000 03 11	699	0.6−	0.5+
1998 11 10	704	0.6−	0.2−	2000 02 03	704	0.7+	0.8−	2000 03 12	704	0.1−	0.2+
1998 11 10	704	0.5−	0.3+	2000 02 03	704	0.1+	0.5+	2000 03 12	704	0.2+	1.1+
1998 11 10	704	0.9−	1.1−	2000 02 06	703	0.6−	0.5+	2000 03 12	704	0.0	0.1−
1998 11 10	704	0.9+	0.5−	2000 02 06	703	0.6−	0.7+				

1998 TM₃₃ = 1998 VE₁₃ = 2000 FY₄₁Id. S. Nakano (d, *MPC* 33590), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	337.20709		(2000.0)	P	Q		
<i>n</i>	0.30500739	ω	166.40035	−0.86923683	+0.48927556		
<i>a</i>	2.1857265	Ω	43.12876	−0.46275592	−0.75465331		
<i>e</i>	0.0729376	<i>i</i>	5.95873	−0.17402384	−0.43715878		
<i>P</i>	3.23	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	1.2+	1.0−	1998 11 14	699	0.7+	1.5+	2000 04 04	704	0.1+	0.7−
1998 10 14	699	0.8+	1.0+	1998 11 14	699	1.2+	1.0+	2000 04 04	704	0.3+	0.8−
1998 10 14	699	0.3+	0.8+	1998 11 14	699	0.1−	1.0−	2000 04 04	704	0.7+	1.3−
1998 10 20	699	0.6−	0.4−	2000 02 08	704	0.9+	0.4+	2000 04 06	699	0.3+	0.1+
1998 10 20	699	0.4+	0.4+	2000 02 08	704	0.4−	0.6+	2000 04 06	699	0.1+	0.0

1998 10 20	699	1.0–	1.1+	2000 02 08	704	0.3+	0.6–	2000 04 06	699	0.3+	0.3+
1998 10 27	691	0.7–	0.2–	2000 03 08	704	1.0+	0.4+	2000 04 06	699	0.0	0.2+
1998 10 27	691	0.6–	0.3–	2000 03 08	704	0.8+	1.3+	2000 04 08	704	0.3–	0.4+
1998 10 27	691	0.5–	0.1+	2000 03 08	704	0.2+	0.6+	2000 04 08	704	0.3–	0.4+
1998 11 10	704	0.5+	0.0	2000 03 08	704	0.8–	0.9+	2000 04 08	704	0.2–	0.6+
1998 11 10	704	0.6+	0.7–	2000 03 29	704	(2.1–	0.3+)	2000 04 08	704	0.2–	0.6+
1998 11 10	704	0.9+	0.5–	2000 03 29	704	0.3–	0.6–	2000 04 08	704	0.0	1.3+
1998 11 10	704	1.0+	0.3–	2000 03 29	704	0.3–	0.1–	2000 04 10	704	0.5+	0.2–
1998 11 10	704	1.8–	1.2–	2000 03 29	704	0.6–	0.6–	2000 04 10	704	0.0	0.3–
1998 11 11	704	0.0	1.1–	2000 03 30	703	0.2+	0.3–	2000 04 10	704	0.2+	0.1–
1998 11 11	704	0.5+	0.5–	2000 03 30	703	0.3–	0.3–	2000 04 10	704	0.4+	0.0
1998 11 11	704	1.1–	0.0	2000 03 30	703	0.0	0.2–	2000 04 10	704	0.4+	1.1–
1998 11 14	691	0.3–	0.0	2000 03 30	703	0.2+	0.2–	2000 04 11	608	0.7–	0.4–
1998 11 14	691	0.3–	0.1–	2000 04 04	704	0.0	0.1+	2000 04 11	608	1.0–	0.5–
1998 11 14	691	0.3–	0.1+	2000 04 04	704	0.5–	0.1–	2000 04 11	608	1.1–	0.3–

1998 TQ₃₃ = 2000 FC₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21472989	ω	136.92785	–0.98496316	–0.03061301				
<i>a</i>	2.7618985	Ω	42.23312	–0.07037191	–0.82773840				
<i>e</i>	0.1452419	<i>i</i>	14.65308	+0.15778264	–0.56027849				
<i>P</i>	4.59	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 09 26	327	0.0	0.0	1998 11 15	691	0.1+	0.1+	1999 12 10	704	0.6+	0.4–
1998 09 26	327	0.3–	0.1+	1998 11 19	691	0.3+	0.0	2000 01 02	704	0.7–	0.3–
1998 09 26	327	0.2–	0.4+	1998 11 19	691	0.5+	0.1–	2000 01 02	704	0.3–	0.6–
1998 10 14	699	0.5+	0.3+	1998 11 19	691	0.5+	0.0	2000 01 02	704	0.4–	0.3–
1998 10 14	699	0.3–	0.3+	1998 11 25	691	0.1–	0.0	2000 01 02	704	0.8–	0.1+
1998 10 14	699	0.0	0.3+	1998 11 25	691	0.1+	0.0	2000 01 02	704	0.2–	0.4+
1998 10 17	691	1.4–	0.2+	1998 11 25	691	0.1+	0.1+	2000 01 29	704	0.1–	0.2+
1998 10 17	691	0.9–	0.2+	1998 12 08	699	0.2–	0.4–	2000 01 29	704	0.0	0.1+
1998 10 17	691	1.0–	0.0	1998 12 08	699	1.1–	0.5+	2000 01 29	704	0.0	0.1+
1998 10 20	699	0.5+	0.9+	1998 12 08	699	0.1–	0.3+	2000 01 29	704	0.1+	0.0
1998 10 20	699	0.0	0.7+	1998 12 09	704	0.9–	0.2+	2000 01 29	704	0.2–	0.2–
1998 10 20	699	0.1–	1.1+	1998 12 09	704	(1.0–	2.2–)	2000 03 15	704	0.0	0.1–
1998 11 10	704	0.3+	0.1–	1998 12 09	704	1.3+	0.5–	2000 03 15	704	0.3–	0.7+
1998 11 10	704	1.5+	0.7–	1998 12 09	704	2.0–	0.5–	2000 03 15	704	0.1+	0.4+
1998 11 10	704	0.6+	1.1–	1998 12 09	704	1.3–	0.6+	2000 03 15	704	0.1+	0.4+
1998 11 10	704	0.6+	0.6–	1999 11 11	699	0.5+	0.4+	2000 03 15	704	0.2–	0.4+
1998 11 10	704	1.5+	1.8–	1999 11 11	699	0.2–	0.6+	2000 03 27	704	0.1–	0.2+
1998 11 11	704	0.1–	0.8–	1999 11 11	699	0.7+	0.4–	2000 03 27	704	0.1–	0.0
1998 11 11	704	0.3+	0.0	1999 12 10	704	0.2+	0.1+	2000 03 27	704	0.2–	0.0
1998 11 11	704	0.6+	0.6+	1999 12 10	704	0.3–	0.2+	2000 03 27	704	0.1–	0.1+
1998 11 11	704	(1.6+	2.4–)	1999 12 10	704	0.0	0.3–	2000 03 27	704	0.2–	0.3–
1998 11 11	704	0.4–	1.2–	1999 12 10	704	0.1–	0.4–	2000 04 02	704	0.5+	0.6+
1998 11 14	699	0.4–	0.9+	1999 12 10	704	0.3–	0.3–	2000 04 02	704	0.5+	0.5+
1998 11 14	699	0.2–	0.3+	1999 12 10	704	0.1+	0.0	2000 04 02	704	0.4+	0.1–
1998 11 14	699	0.0	0.7+	1999 12 10	704	0.0	0.7–	2000 04 02	704	0.4+	0.1–
1998 11 15	691	0.2+	0.0	1999 12 10	704	0.7+	0.1+	2000 04 02	704	0.4+	0.2+
1998 11 15	691	0.2+	0.0	1999 12 10	704	0.0	0.6–				

1998 TY₃₄ = 2000 GN₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26167851	ω	250.25132	+0.31084693	–0.95045931				
<i>a</i>	2.4207913	Ω	181.63969	+0.88623544	+0.29027457				
<i>e</i>	0.1928374	<i>i</i>	2.27804	+0.34345442	+0.11121052				
<i>P</i>	3.77	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 10 14	699	0.3–	0.5+	1998 11 11	704	0.6+	0.7+	2000 04 05	704	0.6+	0.5+
1998 10 14	699	0.2–	0.6+	1998 11 11	704	0.3–	0.8–	2000 04 05	704	0.2+	0.2+
1998 10 14	699	0.2+	0.2+	1998 11 11	704	0.1+	0.8–	2000 04 07	704	0.3+	1.1–
1998 10 20	699	0.2+	0.3+	1998 11 11	704	0.7+	0.6–	2000 04 07	699	0.0	0.5+

1998 10 20	699	0.2–	0.2+	1998 11 11	704	0.4+	0.8–	2000 04 07	704	0.4+	0.2+
1998 10 20	699	0.2–	0.2–	1998 11 14	699	0.0	0.3+	2000 04 07	699	0.5–	0.4+
1998 11 10	704	0.8–	0.5+	1998 11 14	699	0.2+	0.2+	2000 04 07	699	0.8+	0.1+
1998 11 10	704	0.1+	0.2–	1998 11 14	699	0.1–	0.5+	2000 04 07	704	0.2+	0.4+
1998 11 10	704	0.5–	0.4–	2000 04 05	704	0.3–	0.2–	2000 04 07	699	0.9–	0.5+
1998 11 10	704	0.1–	0.6+	2000 04 05	704	0.0	0.3–				
1998 11 10	704	(0.3+	2.4–)	2000 04 05	704	0.4–	0.1–				

1998 UW₁ = 1989 RY₅ = 2000 EQ₁₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22606101	ω	243.07841	+0.94404678	+0.23000119				
<i>a</i>	2.6688179	Ω	102.84777	–0.14254385	+0.93085178				
<i>e</i>	0.1951458	<i>i</i>	14.03113	–0.29741709	+0.28392679				
<i>P</i>	4.36	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1989 09 04	413	0.1–	0.2+	1998 11 21	699	0.6+	0.9+	2000 01 31	704	0.2–	0.9+
1998 10 16	120	0.2–	0.1–	1998 11 21	699	1.0+	0.9+	2000 01 31	704	0.4–	0.9+
1998 10 16	120	0.0	0.2+	1998 12 07	120	0.1+	0.2+	2000 03 04	704	0.0	0.9–
1998 10 16	120	0.3–	0.1+	1998 12 07	120	0.2–	0.2+	2000 03 04	704	0.1+	0.4–
1998 10 20	120	0.2+	0.1–	1998 12 17	699	0.1+	0.6–	2000 03 04	704	0.1+	0.3–
1998 10 21	120	0.2+	0.2–	1998 12 17	699	0.1+	0.6–	2000 03 04	704	0.1–	0.5–
1998 10 21	120	0.2+	0.1–	1998 12 17	699	0.1+	0.6–	2000 03 11	699	0.2+	0.0
1998 10 29	120	0.2+	0.1–	1999 01 07	704	(0.5+	2.2–)	2000 03 11	699	0.0	0.1–
1998 10 29	120	0.4+	0.3–	1999 01 07	704	1.9–	1.1–	2000 03 11	699	0.8–	0.8+
1998 11 12	120	0.4–	0.2–	1999 01 07	704	1.7–	1.3+	2000 03 11	699	0.0	0.1–
1998 11 12	120	0.0	0.1–	1999 01 07	704	1.3+	1.1+	2000 03 12	703	0.3–	0.4+
1998 11 13	704	0.3+	0.3+	1999 02 04	704	0.4–	1.0–	2000 03 12	703	0.1–	0.3+
1998 11 13	704	0.4–	0.2–	1999 02 04	704	0.4–	1.5+	2000 03 12	704	0.4+	0.8+
1998 11 13	704	0.2+	0.7–	1999 02 04	704	0.4–	1.0–	2000 03 12	704	0.0	0.4+
1998 11 13	704	0.7–	0.1+	1999 02 04	704	1.1+	0.5+	2000 03 12	703	0.2–	0.3+
1998 11 13	704	0.5–	0.4+	1999 02 04	704	0.1+	0.3–	2000 03 12	704	0.7+	0.1+
1998 11 13	120	1.5–	0.9–	2000 01 06	704	0.1+	0.1–	2000 03 12	703	0.3–	0.2+
1998 11 13	120	0.5+	0.2–	2000 01 06	704	0.8+	0.2–	2000 03 12	704	1.1–	0.7–
1998 11 13	120	0.3–	0.4+	2000 01 06	704	1.0+	0.3–	2000 03 12	704	0.4+	0.7–
1998 11 13	120	0.8+	0.4–	2000 01 06	704	0.1–	0.5–				
1998 11 21	699	1.3+	0.6+	2000 01 31	704	0.1–	0.7–				

1998 UX₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.27079755	ω	245.18191	–0.31724233	–0.94429861				
<i>a</i>	2.3661352	Ω	223.62017	+0.90944951	–0.27677814				
<i>e</i>	0.0668930	<i>i</i>	7.28728	+0.26881014	–0.17802807				
<i>P</i>	3.64	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 10 16	691	1.3–	0.9–	1998 11 11	704	1.2–	0.6–	2000

2000 APR. 18

M.P.C. 40025

1998 UM₃ = 1998 QT₂₁ = 2000 FE₄Id. A. Doppler (d, *MPC* 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 123.40786 (2000.0)			P			Q		
<i>n</i>	0.27276281	ω	175.96969	+0.97029973	−0.24186529			
<i>a</i>	2.3547562	Ω	198.02884	+0.22154225	+0.89582413			
<i>e</i>	0.2247351	<i>i</i>	0.82000	+0.09714664	+0.37282745			
<i>P</i>	3.61	<i>H</i>	16.2	<i>G</i> 0.15	<i>U</i> 4			

Residuals in seconds of arc

1998 08 17	704	0.5+	0.1+	1998 10 12	699	0.6+	0.4+	2000 03 03	704	0.0	0.0
1998 08 17	704	0.2−	0.0	1998 10 12	699	0.3−	0.6−	2000 03 25	691	0.4−	0.3−
1998 08 17	704	0.2−	0.2+	1998 10 12	699	0.5+	1.2+	2000 03 25	691	0.3−	0.2−
1998 08 17	704	0.8−	0.8+	1998 10 20	910	0.1+	0.0	2000 03 25	691	0.0	0.1−
1998 08 17	704	0.3+	1.0+	1998 10 20	910	0.2−	0.2−	2000 03 29	691	0.1+	0.5−
1998 08 23	699	0.2+	0.4−	1998 10 20	910	0.2−	0.2−	2000 03 29	691	0.1−	0.8−
1998 08 23	704	0.4−	0.9−	1998 10 21	910	0.1−	0.2−	2000 03 29	691	0.0	0.4−
1998 08 23	704	0.3+	1.9−	1998 10 21	910	0.1−	0.2−	2000 04 04	688	0.2−	0.6+
1998 08 23	699	0.1−	0.3+	1998 10 21	910	0.1−	0.2−	2000 04 04	688	0.2+	0.1+
1998 08 23	704	1.1−	1.4+	2000 03 03	704	0.5+	0.8+	2000 04 08	691	0.1−	0.3−
1998 08 23	704	0.3−	0.9+	2000 03 03	704	0.3+	0.3+	2000 04 08	691	0.1+	0.4−
1998 08 23	699	1.5+	0.4−	2000 03 03	704	0.1+	0.8+	2000 04 08	691	0.3−	0.1−
1998 08 23	704	0.0	1.0−	2000 03 03	704	0.1+	0.3+				

1998 UD₄ = 2000 EU₂₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 219.31116 (2000.0)			P			Q		
<i>n</i>	0.29209245	ω	219.33113	+0.52538034	+0.84162287			
<i>a</i>	2.2496890	Ω	82.70130	−0.74541060	+0.52615221			
<i>e</i>	0.1779696	<i>i</i>	7.24472	−0.41029079	+0.12179818			
<i>P</i>	3.37	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 4			

Residuals in seconds of arc

1998 08 31	704	1.6−	0.8+	1998 11 10	704	0.4+	0.1+	2000 02 06	703	1.0−	0.8+
1998 08 31	704	(2.2−	0.3+)	1998 11 10	704	1.1+	0.7−	2000 02 06	703	0.0	0.3−
1998 08 31	704	0.5−	0.3−	1998 11 10	704	0.9+	0.4+	2000 03 04	704	0.5+	0.2+
1998 08 31	704	1.2+	0.8−	1998 11 10	704	0.1+	0.2+	2000 03 04	704	0.1−	0.0
1998 08 31	704	1.0+	1.2−	1998 11 10	704	0.7+	0.2+	2000 03 04	704	0.5−	0.2+
1998 10 14	699	0.7+	0.1+	1998 11 11	704	0.1+	0.1−	2000 03 04	704	0.3−	0.4+
1998 10 14	699	0.4+	0.7+	1998 11 11	704	0.5−	0.4+	2000 03 04	704	0.2−	0.2+
1998 10 14	699	0.2−	0.0	1998 11 11	704	0.1−	0.2+	2000 03 09	704	0.1−	0.4+
1998 10 18	809	(4.6+	0.9+)	1998 11 11	704	0.1+	0.1−	2000 03 09	704	0.2+	0.5+
1998 10 18	809	(4.2+	1.2+)	1998 11 11	704	0.1−	0.8+	2000 03 09	704	0.3+	0.4+
1998 10 18	809	(3.7+	1.1+)	2000 01 07	704	0.2−	1.0−	2000 03 09	704	1.0+	0.6+
1998 10 19	809	(4.1+	0.2+)	2000 01 07	704	0.6+	0.8−	2000 03 09	704	0.8+	0.9+
1998 10 19	809	(3.2+	0.4−)	2000 01 07	704	0.8+	0.9−	2000 03 12	703	0.7+	0.1−
1998 10 19	809	(2.8+	0.2−)	2000 01 07	704	0.5+	1.3−	2000 03 12	703	0.2+	0.2+
1998 10 20	120	0.2−	0.3+	2000 02 03	704	0.3−	0.6+	2000 03 12	704	0.3−	0.2−
1998 10 20	120	0.4−	0.0	2000 02 03	704	0.3−	1.1−	2000 03 12	703	0.1−	0.6−
1998 10 22	120	1.1−	0.0	2000 02 03	704	0.0	0.6−	2000 03 12	704	0.7−	0.3+
1998 10 22	120	1.4−	0.0	2000 02 03	704	0.3−	0.7+	2000 03 12	703	0.1+	0.1+
1998 10 22	120	0.3−	0.4−	2000 02 03	704	0.1+	0.1−	2000 03 12	704	0.2−	0.4−
1998 10 28	120	0.3−	0.3−	2000 02 06	703	0.8−	0.2+	2000 03 12	704	0.4−	0.2−
1998 10 28	120	0.3−	0.0	2000 02 06	703	0.0	0.2+	2000 03 12	704	0.2+	0.1+

1998 UF₄ = 2000 EO₁₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 196.38533 (2000.0)			P			Q		
<i>n</i>	0.27886242	ω	222.22758	+0.83007744	+0.52512900			
<i>a</i>	2.3202924	Ω	105.17271	−0.44541172	+0.82681108			
<i>e</i>	0.2439361	<i>i</i>	11.21103	−0.33552920	+0.20155141			
<i>P</i>	3.53	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3			

Residuals in seconds of arc

1996 01 12	691	0.0	0.5−	1998 11 12	120	0.0	0.2+	2000 02 06	703	1.4+	0.1+
1996 01 12	691	0.2+	0.1−	1998 11 12	120	0.1+	0.2−	2000 02 06	703	0.3−	1.1−
1996 01 12	691	0.2−	0.0	1998 11 13	704	1.0−	0.4−	2000 02 06	703	1.2−	0.7+
1998 10 21	120	0.1+	0.4−	1998 11 13	704	0.4−	0.4+	2000 03 04	704	0.3+	0.0
1998 10 21	120	0.7+	0.1+	1998 11 13	704	0.1+	0.5+	2000 03 04	704	0.1−	0.1−
1998 10 21	120	1.0+	0.1+	1998 11 13	704	0.4−	0.3−	2000 03 04	704	0.2−	0.3−
1998 10 22	120	0.1−	0.2+	1998 11 13	704	0.3+	0.5−	2000 03 04	704	0.4+	0.8−
1998 10 23	120	0.7−	0.5+	1998 11 16	566	0.8−	0.1−	2000 03 04	704	0.1−	0.1−
1998 10 23	120	1.2+	0.3+	1998 11 16	566	1.3−	0.2−	2000 03 12	704	0.3+	0.4+
1998 10 23	120	0.9+	0.1+	1998 11 16	566	0.6+	0.1−	2000 03 12	704	0.9+	0.6−
1998 10 29	120	0.0	0.1−	2000 02 03	704	0.3+	0.1−	2000 03 12	704	0.1+	0.1+
1998 10 29	120	0.4+	0.5+	2000 02 03	704	0.3−	0.3+	2000 03 12	704	0.5−	0.3+
1998 10 30	120	0.2−	0.2−	2000 02 03	704	0.3+	0.7+	2000 03 12	704	0.2+	0.1+
1998 10 30	120	0.1+	0.1−	2000 02 03	704	0.6−	0.5+				
1998 10 30	120	0.3−	0.0	2000 02 06	703	0.8−	0.7+				

1998 UL₆ = 2000 GR₁₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 64.19427 (2000.0)			P			Q		
<i>n</i>	0.18978773	ω	30.33970	−0.77632363	−0.59892116			
<i>a</i>	2.9988676	Ω	111.55981	+0.52751635	−0.78796061			
<i>e</i>	0.0536995	<i>i</i>	12.19797	+0.34503351	−0.14286887			
<i>P</i>	5.19	<i>H</i>	12.7	<i>G</i> 0.15	<i>U</i> 2			

Residuals in seconds of arc

1994 02 14	675	0.3−	1.4−	1998 11 29	120	0.5+	0.3−	1999 02 13	704	0.1−	0.2−
1994 02 14	675	0.4−	1.9−	1998 11 29	120	1.0+	0.0	1999 05 08	704	1.3−	1.1−
1998 10 22	910	1.0−	1.0−	1998 11 29	120	1.2+	0.2+	1999 05 08	704	0.6+	0.2−
1998 10 22	910	0.9−	0.5−	1998 12 14	699	1.2+	0.5−	1999 05 08	704	0.3−	0.7−
1998 10 22	910	0.7−	0.6−	1998 12 14	699	0.7+	0.3+	1999 05 08	704	0.2+	0.6+
1998 10 23	910	1.4−	0.3+	1998 12 14	699	0.1−	0.6+	2000 03 15	699	0.8+	0.9−
1998 10 23	910	1.4−	0.6+	1999 01 10	699	0.0	0.8−	2000 03 15	699	0.3−	0.6+
1998 10 23	910	1.4−	0.3+	1999 01 10	699	0.7−	0.3−	2000 03 15	699	0.4−	0.1+
1998 10 26	910	(0.0	3.3−)	1999 01 10	699	0.3−	0.3−	2000 03 15	699	0.2−	0.1−
1998 10 26	910	(0.1−	3.3−)	1999 01 19	704	0.3+	0.7+	2000 04 04	704	1.7+	1.3+
1998 10 26	910	(0.2−	3.0−)	1999 01 19	704	1.0+	0.2−	2000 04 04	704	0.3+	0.1−
1998 11 02	327	0.6+	0.7+	1999 01 19	704	0.2−	0.3+	2000 04 04	704	0.5−	0.2−
1998 11 02	327	0.3+	0.4+	1999 01 19	704	0.3+	0.2−	2000 04 04	704	0.1−	0.9+
1998 11 02	327	0.1+	0.5+	1999 01 19	704	0.1−	0.5+	2000 04 04	704	0.4−	0.3+
1998 11 03	327	0.6+	0.0	1999 01 22	699	0.1+	0.1−	2000 04 12	704	0.7+	0.0
1998 11 03	327	0.2+	0.0	1999 01 22	699	0.0	0.0	2000 04 12	704	0.5+	0.4−
1998 11 03	327	0.6+	0.5+	1999 01 22	699	0.1+	0.1+	2000 04 12	704	0.1+	0.0
1998 11 16	699	0.4+	0.1+	1999 02 10	704	0.2−	0.5−	2000 04 12	704	0.7−	0.2+
1998 11 16	699	0.1−	0.6+	1999 02 10	704	0.1−	0.2+	2000 04 12	704	0.3−	1.4+
1998 11 16	699	0.5+	0.2−	1999 02 10	704	0.7−	0.6+	2000 04 13	704	1.0+	0.3−
1998 11 23	699	0.2+	1.1+	1999 02 10	704	0.6−	0.4+	2000 04 13	704	0.5+	0.1+
1998 11 23	699	0.3+	1.8+	1999 02 10	704	0.2−	0.4+	2000 04 13	704	0.0	0.1−
1998 11 23	699	0.2+	0.4+	1999 02 13	704	0.2+	0.4−	2000 04 13	704	0.7+	0.3−
1998 11 26	691	0.0	0.3−	1999 02 13	704	0.3+	0.0	2000 04 16	608	0.5−	0.0
1998 11 26	691	0.2+	0.2−	1999 02 13	704	0.1−	0.3+	2000 04 16	608	1.4−	0.1−
1998 11 26	691	0.1−	0.4−	1999 02 13	704	0.1−	0.1−	2000 04 16	608	0.6−	0.1−

1998 10 14	699	0.1−	0.2−	1998 11 10	704	0.1+	0.3−	2000 04 02	699	0.2+	0.4+
1998 10 14	699	0.0	0.4−	1998 11 10	704	1.2−	2.0+	2000 04 02	699	0.5−	0.3−
1998 10 18	809	1.8+	0.9−	1998 11 10	704	(2.0−	0.3+)	2000 04 02	699	0.2+	0.1+
1998 10 18	809	(2.1+	0.6−)	1998 11 15	120	0.1+	0.0	2000 04 02	699	0.1+	0.4−
1998 10 18	809	1.9+	0.4−	1998 11 15	120	0.2−	0.3−	2000 04 04	704	1.5−	0.4−
1998 10 19	809	(1.3+	2.4−)	1998 11 19	699	0.4−	0.3+	2000 04 04	704	0.3−	0.2+
1998 10 19	809	(0.6+	2.9−)	1998 11 19	699	0.4−	0.6−	2000 04 04	704	0.8−	0.3−
1998 10 19	809	(0.7+	2.5−)	1998 11 19	699	0.3+	0.3−	2000 04 04	704	0.8+	0.2−
1998 10 20	120	0.2−	1.0+	1998 12 11	699	0.3−	0.7+	2000 04 08	704	0.9−	0.7+
1998 10 20	120	0.3−	0.0	1998 12 11	699	0.1+	0.3−	2000 04 08	704	0.9+	0.9−
1998 10 24	120	1.3−	0.2−	1998 12 11	699	0.3+	0.3+	2000 04 08	704	0.4+	0.4−
1998 10 24	120	(2.5−	0.3+)	2000 03 29	704	1.0−	0.2−	2000 04 08	704	0.7+	0.8−

1998 UL₇ = 2000 ET₁₃₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	145.42575	(2000.0)		P	Q		
<i>n</i>	0.27713915	ω	310.64559	+0.89810054	−0.42134656		
<i>a</i>	2.3299010	Ω	74.61492	+0.43255608	+0.79452191		
<i>e</i>	0.1572589	<i>i</i>	7.51061	+0.07943962	+0.43726652		
<i>P</i>	3.56	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 31	704	0.7+	0.5+	1998 11 11	704	0.1−	0.5−	2000 04 03	704	0.1+	0.3−
1998 08 31	704	0.6−	0.1+	1998 11 11	704	1.0−	0.3−	2000 04 03	704	0.5−	0.2+
1998 08 31	704	0.7−	0.5+	1998 11 15	120	0.4+	0.1−	2000 04 03	704	0.4−	0.0
1998 08 31	704	1.6−	0.7+	1998 11 15	120	0.5+	0.2−	2000 04 03	704	0.6−	0.6−
1998 08 31	704	0.1−	0.7−	2000 03 11	699	0.2+	0.1+	2000 04 03	704	0.2+	0.6−
1998 10 22	120	1.2+	0.1+	2000 03 11	699	0.5−	0.5+	2000 04 07	699	1.0+	0.1−
1998 10 22	120	0.7+	0.4+	2000 03 11	699	0.6−	0.1+	2000 04 07	699	0.8+	0.1+
1998 10 24	120	0.2+	0.7+	2000 03 11	699	0.3+	1.2+	2000 04 07	699	0.4−	0.1+
1998 10 24	120	0.3+	0.9+	2000 03 12	704	1.0+	0.1+	2000 04 07	699	0.0	0.4+
1998 10 27	120	0.5−	0.2+	2000 03 12	704	1.0+	0.8−	2000 04 08	704	0.0	0.0
1998 10 27	120	0.4−	0.2−	2000 03 12	704	0.7+	0.1−	2000 04 08	704	0.7−	0.6+
1998 11 10	704	0.1+	0.2−	2000 03 12	704	0.6+	0.4+	2000 04 08	704	0.3−	0.1+
1998 11 10	704	0.3+	0.5−	2000 03 29	704	0.4−	0.1+	2000 04 08	704	1.1−	0.6+
1998 11 10	704	0.1+	0.3−	2000 03 29	704	0.6+	0.4+	2000 04 08	704	0.6−	0.3+
1998 11 10	704	0.3−	0.1+	2000 03 29	704	0.1−	0.9−	2000 04 11	608	0.1+	0.4−
1998 11 10	704	0.2−	0.0	2000 03 29	704	0.3−	0.1+	2000 04 11	608	0.0	0.6−
1998 11 11	704	0.1+	0.0	2000 03 29	704	0.3+	0.4+	2000 04 11	608	0.1+	0.4−

1998 UN₇ = 2000 EL₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	196.11874	(2000.0)		P	Q		
<i>n</i>	0.29321780	ω	276.20157	+0.82819779	+0.55140892		
<i>a</i>	2.2439292	Ω	50.38324	−0.44889059	+0.75969877		
<i>e</i>	0.2105448	<i>i</i>	7.47263	−0.33553787	+0.34468243		
<i>P</i>	3.36	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 18	699	0.9+	0.3+	1998 11 10	704	0.2+	0.2−	1998 11 11	704	0.6−	0.8−
1998 10 18	699	0.4−	0.3+	1998 11 10	704	0.1+	0.4−	1998 11 11	699	0.9+	0.0
1998 10 18	699	0.3−	0.3−	1998 11 10	704	0.1+	0.9−	1998 11 11	699	0.0	0.4+
1998 10 22	120	0.8−	0.1+	1998 11 10	704	0.0	0.7−	1998 11 24	699	1.9−	1.2+
1998 10 22	120	1.8−	0.9−	1998 11 10	704	(2.0−	0.6−)	1998 11 24	699	0.2−	0.3+
1998 10 24	120	0.4−	1.5−	1998 11 11	704	0.5+	0.1−	1998 11 24	699	1.1−	0.9+
1998 10 24	120	0.2+	0.9+	1998 11 11	704	0.7+	0.3−	2000 03 08	608	0.4−	0.7−
1998 10 26	120	1.0−	0.6+	1998 11 11	704	0.8+	0.0	2000 03 08	608	0.4−	0.8−
1998 10 26	120	0.2−	0.1+	1998 11 11	704	0.1+	0.1+	2000 03 08	608	0.2+	0.3−
1998 10 27	120	1.0+	0.9+	1998 11 11	704	0.5−	0.0	2000 03 12	704	0.3−	0.6+
1998 10 27	120	(2.2+	0.0)	1998 11 11	704	0.5+	0.8−	2000 03 12	704	0.4+	0.7+
1998 10 28	120	0.3+	0.7+	1998 11 11	704	0.3+	0.1+	2000 03 12	704	0.6+	0.1−
1998 10 28	120	0.9+	0.5−	1998 11 11	704	1.0−	0.4+	2000 03 12	704	0.2−	0.7+
1998 10 29	120	0.7+	0.8+	1998 11 11	704	1.2+	0.6−				
1998 10 29	120	0.2+	0.3+	1998 11 11	699	0.5+	0.5−				

1998 UO₇ = 2000 GM₉₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	102.60932	(2000.0)		P	Q		
<i>n</i>	0.24195242	ω	21.12586	+0.42983871	−0.90118885		
<i>a</i>	2.5506414	Ω	43.46838	+0.81636978	+0.36157146		
<i>e</i>	0.1711332	<i>i</i>	4.64016	+0.38571890	+0.23900782		
<i>P</i>	4.07	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 22	120	0.6−	0.5−	1998 11 11	704	0.0	0.1−	1998 12 17	120	0.7+	0.8−
1998 10 22	120	0.6−	0.2+	1998 11 11	704	0.6−	0.4+	1998 12 17	120	0.2+	0.1+
1998 10 22	120	0.5+	0.1−	1998 11 11	704	0.1+	0.5−	2000 04 05	704	0.3+	0.5+
1998 10 24	120	0.3−	0.5−	1998 11 20	699	0.2+	0.4+	2000 04 05	704	1.0+	0.1+
1998 10 24	120	1.1+	0.6−	1998 11 20	699	0.9−	0.1+	2000 04 05	704	0.1+	0.3−
1998 10 26	120	0.2+	0.3−	1998 11 20	699	0.6−	0.6+	2000 04 05	704	0.3+	0.4−
1998 10 26	120	2.0+	0.9−	1998 12 09	120	0.7+	0.1−	2000 04 05	704	0.3−	1.0+
1998 10 29	120	0.5+	0.1+	1998 12 09	120	1.5+	1.0−	2000 04 07	699	0.7−	0.3+
1998 10 29	120	0.5−	0.3+	1998 12 09	120	0.1+	0.3+	2000 04 07	699	0.0	0.4+
1998 11 10	704	1.1−	0.3−	1998 12 12	120	0.3+	0.1+	2000 04 07	699	0.1+	0.2−
1998 11 10	704	1.6−	0.1+	1998 12 12	120	1.2+	1.2−	2000 04 07	699	0.3−	0.4−
1998 11 10	704	0.8−	1.3+	1998 12 12	120	1.1+	0.2+	2000 04 08	704	0.4−	0.0
1998 11 10	699	(0.5+	2.2+)	1998 12 15	120	0.1−	0.2+	2000 04 08	704	0.5+	0.1−
1998 11 10	699	0.3−	0.7+	1998 12 15	120	0.4+	0.1−	2000 04 08	704	0.5−	0.4−
1998 11 10	699	0.5+	1.8+	1998 12 17	120	1.8−	0.4+				
1998 11 11	704	0.1+	0.5+	1998 12 17	120	0.9−	0.8−				

1998 UP₇ = 2000 FL₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	122.25242	(2000.0)		P	Q		
<i>n</i>	0.27495786	ω	14.08600	+0.54480682	−0.83371312		
<i>a</i>	2.3422071	Ω	43.00176	+0.75601874	+0.44188268		
<i>e</i>	0.0953697	<i>i</i>	7.58666	+0.36279635	+0.33115273		
<i>P</i>	3.58	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 29	910	0.4−	0.0	1998 11 11	704	0.2+	0.6+	2000 03 30	703	0.1−	0.1−
1998 09 29	910	0.3−	0.2+	1998 11 11	704	1.0+	0.2+	2000 04 04	704	0.8+	0.4+
1998 09 29	910	0.4−	0.1+	1998 11 16	566	0.6−	0.0	2000 04 04	704	0.8+	0.0
1998 10 18	699	0.4+	0.4−	1998 11 16	566	0.3−	0.7−	2000 04 04	704	0.0	1.0+
1998 10 18	699	0.2+	0.3−	1998 11 16	566	0.4−	0.0	2000 04 04	704	1.8+	1.0+
1998 10 18	699	0.4−	0.5+	1998 11 20	699	0.3+	0.4+	2000 04 08	704	0.1−	0.4−
1998 10 22	120	1.2−	0.1+	1998 11 20	699	0.9+	0.1+	2000 04 08	704	0.1+	0.6+
1998 10 22	120	0.1+	0.6+	1998 11 20	699	0.1+	0.5+	2000 04 08	704	0.5−	0.6−
1998 10 22	120	1.0+	0.1−	2000 03 08	704	0.1−	0.2+	2000 04 08	704	(1.6−	2.3−)
1998 10 24	120	0.0	0.1−	2000 03 08	704	0.9+	0.5+	2000 04 08	704	1.9−	0.9−
1998 10 24	120	0.8+	0.9+	2000 03 08	704	1.0+	0.3+	2000 04 10	704	0.3−	0.1+
1998 10 26	120	0.4−	0.9−	2000 03 08	704	0.1+	0.2−	2000 04 10	704	0.2−	0.4+
1998 10 26	120	0.7−	0.6+	2000 03 29	704	0.5−	0.2+	2000 04 10	704	0.4−	0.6−
1998 11 10	704	0.3−	0.5−	2000 03 29	704	0.5+	0.1−	2000 04 10	704	0.6−	0.2−
1998 11 10	704	0.3−	1.0−	2000 03 29	704	0.0	0.4−	2000 04 10	704	1.4−	0.2+
1998 11 10	704	0.7−	0.3−	2000 03 29	704	0.2+	0.9−	2000 04 11	608	(1.5−	2.5−)
1998 11 10	704	1.0+	2.0−	2000 03 29	704	0.4−	0.6+	2000 04 11	608	(1.0−	2.2−)
1998 11 11	704	0.3+	0.2+	2000 03 30	703	0.6+	0.2+	2000 04 11	608	(1.1−	2.7−)
1998 11 11	704	0.4+	0.8+	2000 03 30	703	0.1+	0.5−				
1998 11 11	704	0.4−	0.5+	2000 03 30	703	0.1−	0.5−				

2000 APR. 18

M.P.C. 40027

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			<i>P</i>			<i>Q</i>		
32.89135			(2000.0)					
<i>n</i>	0.18484209	ω	272.83846	-0.36610082	-0.93029278			
<i>a</i>	3.0521238	Ω	198.68739	+0.87969053	-0.33794249			
<i>e</i>	0.1490415	<i>i</i>	4.10296	+0.30350414	-0.14265421			
<i>P</i>	5.33	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 10 17	691	0.3+	0.2-	1998 10 29	691	1.0-	0.2-	2000 02 06	704	0.2-	0.7+
1998 10 17	691	0.1+	0.1-	2000 02 02	704	0.0	0.6-	2000 02 06	704	0.4-	0.3+
1998 10 17	691	0.1+	0.4+	2000 02 02	704	0.0	0.3-	2000 03 05	704	0.1+	0.7-
1998 10 24	691	0.5+	0.1+	2000 02 02	704	0.1-	0.2+	2000 03 05	704	0.0	0.3-
1998 10 24	691	0.5+	0.0	2000 02 06	704	1.1+	0.0	2000 03 05	704	0.2-	0.3-
1998 10 24	691	0.5+	0.1+	2000 02 06	704	0.2-	0.0	2000 03 05	704	0.9+	0.4+
1998 10 29	691	0.9-	0.3-	2000 02 06	704	0.4-	0.5+	2000 03 05	704	0.5-	0.0

1998 UN₁₆ = 2000 EM₁₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			<i>P</i>			<i>Q</i>		
40.38570			(2000.0)					
<i>n</i>	0.18243594	ω	58.02928	-0.34369844	-0.91705899			
<i>a</i>	3.0789015	Ω	53.41783	+0.75405057	-0.39782427			
<i>e</i>	0.1800326	<i>i</i>	14.58240	+0.55971343	-0.02717841			
<i>P</i>	5.40	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1998 10 18	699	0.7-	0.8-	1998 12 14	120	(2.7+	2.0-)	2000 03 08	608	0.1+	0.5-
1998 10 18	699	0.0	1.4-	1998 12 14	120	0.4-	0.3+	2000 03 08	608	0.3+	0.3-
1998 10 18	699	0.1+	1.4-	1998 12 15	120	0.1-	0.3+	2000 03 08	608	0.4+	0.3-
1998 10 23	120	0.5+	0.4-	1998 12 15	950	0.4-	0.1+	2000 03 12	704	0.5+	0.1-
1998 10 24	120	0.3-	0.3+	1998 12 15	950	0.5-	0.2+	2000 03 12	704	0.4-	0.2-
1998 10 24	120	0.9+	0.2-	1998 12 15	950	0.7-	0.1+	2000 03 12	704	0.3-	0.3+
1998 10 27	120	0.7+	0.3+	1998 12 16	950	0.5-	0.2-	2000 03 12	704	0.2-	0.3+
1998 10 27	120	0.2+	0.2+	1998 12 16	950	0.3-	0.3-	2000 03 12	704	0.6-	0.1+
1998 10 30	120	0.0	0.5+	1998 12 17	120	(2.1-	1.3+)	2000 03 28	704	0.3-	0.2-
1998 10 30	120	1.0-	0.1+	1998 12 17	120	0.1+	0.7+	2000 03 28	704	0.0	0.1+
1998 11 18	704	0.2-	0.7+	1998 12 17	120	0.9+	0.0	2000 03 28	704	0.2-	0.9-
1998 11 18	704	0.5+	0.1-	1998 12 22	120	0.3+	0.2-	2000 04 02	704	0.5+	0.5-
1998 11 18	704	0.2-	0.3+	1998 12 22	120	1.1+	0.2-	2000 04 02	704	0.1-	0.1+
1998 11 18	704	1.6+	0.0	1998 12 22	120	0.7+	0.2+	2000 04 02	704	0.4+	0.2-
1998 11 18	704	1.4+	0.1+	2000 01 06	704	1.1-	0.2+	2000 04 02	704	0.1-	0.7+
1998 11 24	699	0.8+	0.4-	2000 01 06	704	1.5-	1.5+	2000 04 02	704	0.1+	0.3+
1998 11 24	699	0.0	0.4-	2000 01 06	704	0.6-	1.1+	2000 04 08	704	0.4+	0.4-
1998 11 24	699	0.3-	0.3-	2000 02 03	704	0.5+	0.9-	2000 04 08	704	0.5-	0.4-
1998 11 26	120	0.3-	0.1-	2000 02 03	704	1.5+	0.4+	2000 04 08	704	0.4-	0.0
1998 11 26	120	0.6-	0.1-	2000 02 03	704	0.8+	0.2+	2000 04 08	704	0.3+	0.1-
1998 11 26	120	0.2-	0.0	2000 02 03	704	0.6+	1.2+	2000 04 08	704	0.1-	0.1+
1998 12 08	699	0.4-	0.2+	2000 02 03	704	0.1+	0.8+	2000 04 13	704	0.2-	0.4-
1998 12 08	699	0.0	0.8+	2000 03 04	704	0.1-	0.1-	2000 04 13	704	0.5+	0.5+
1998 12 08	699	(0.6+	3.0+)	2000 03 04	704	0.0	0.3-	2000 04 13	704	0.2+	0.6-
1998 12 12	120	0.4-	0.6+	2000 03 04	704	0.5-	0.7-	2000 04 13	704	0.3-	0.6+
1998 12 12	120	0.4-	0.6+	2000 03 04	704	0.0	0.7-				
1998 12 14	120	1.4-	1.1-	2000 03 04	704	0.5-	0.7-				

1998 UP₁₆ = 1998 WE₃₂ = 1981 UG₃ = 2000 ET₁₄₇Id. G. V. Williams (d, *MPC* 34339; unpublished), A. Doppler, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			<i>P</i>			<i>Q</i>		
349.06568			(2000.0)					
<i>n</i>	0.28884816	ω	333.35477	-0.96619857	+0.25218650			
<i>a</i>	2.2665031	Ω	221.36698	-0.21972764	-0.91412404			
<i>e</i>	0.0728496	<i>i</i>	4.64337	-0.13483357	-0.31745740			
<i>P</i>	3.41	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1981 10 30	381	0.3-	0.1+	1998 11 15	120	1.6+	0.1+	2000 03 30	704	0.2+	0.3-
1981 10 30	381	0.2+	0.2+	1998 11 17	691	1.5-	0.5-	2000 04 03	699	0.4-	0.4+

1998 10 18	699	(2.7+	1.1+)	1998 11 17	691	1.1-	0.5-	2000 04 03	699	0.6-	0.1+
1998 10 18	699	0.0	0.8+	1998 11 17	691	1.1-	0.6-	2000 04 03	699	0.6-	0.3+
1998 10 18	699	0.2+	0.8+	1998 11 25	691	0.7-	0.0	2000 04 03	699	0.3-	0.4+
1998 10 26	120	0.1-	0.4-	1998 11 25	691	0.5-	0.1-	2000 04 06	699	1.2-	0.5+
1998 10 26	120	1.1-	1.6-	1998 11 25	691	0.4-	0.0	2000 04 06	699	0.8+	0.8-
1998 10 27	120	0.0	0.1+	2000 02 02	704	0.4-	0.5-	2000 04 06	699	0.2-	0.1+
1998 10 27	120	1.0+	0.3+	2000 02 02	704	0.5+	0.0	2000 04 06	699	0.4-	0.2+
1998 10 27	120	0.3-	1.3+	2000 02 02	704	0.4-	0.5-	2000 04 07	704	0.4+	0.1+
1998 10 27	120	0.4+	0.5+	2000 03 04	703	0.3+	0.0	2000 04 07	704	0.5+	0.1-
1998 10 28	120	0.2+	0.3+	2000 03 04	703	0.0	0.3+	2000 04 07	704	0.6+	0.2-
1998 10 28	120	1.6-	0.7+	2000 03 04	703	0.2-	0.0	2000 04 07	704	0.5+	0.2-
1998 11 10	704	0.2+	0.5-	2000 03 04	703	0.2-	0.1-	2000 04 07	704	0.2+	0.3-
1998 11 10	704	0.8+	0.4-	2000 03 09	704	0.4+	0.3+	2000 04 08	704	0.8+	0.4+
1998 11 10	704	0.1-	0.5+	2000 03 09	704	0.0	0.5-	2000 04 08	704	1.0+	0.2+
1998 11 10	704	(2.3+	1.7-)	2000 03 09	704	0.2+	0.6+	2000 04 08	704	0.8+	0.2+
1998 11 11	704	0.1-	0.9+	2000 03 27	699	0.2-	0.1+	2000 04 08	704	0.6+	0.5+
1998 11 11	704	1.0+	0.4-	2000 03 27	699	0.7-	0.2-	2000 04 08	704	0.9+	0.2+
1998 11 11	704	1.0+	1.1-	2000 03 27	699	0.3-	0.1-	2000 04 10	704	0.2-	0.1-
1998 11 11	704	0.2-	1.9-	2000 03 27	699	0.6-	0.1-	2000 04 10	704	0.3-	0.6+
1998 11 14	699	0.1+	1.2+	2000 03 30	704	0.0	0.2-	2000 04 10	704	0.7-	0.0
1998 11 14	699	0.3+	1.0+	2000 03 30	704	0.1+	0.1+	2000 04 10	704	0.4-	0.1+
1998 11 14	699	0.3+	0.6+	2000 03 30	704	0.0	0.6-	2000 04 10	704	0.3-	0.1+
1998 11 15	120	1.4+	0.2-	2000 03 30	704	0.2+	0.5-				

1998 UW₁₆ = 2000 EP₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			<i>P</i>			<i>Q</i>		
120.74448			(2000.0)					
<i>n</i>	0.23613439	ω	205.43596	+0.83759839	-0.54064441			
<i>a</i>	2.5923674	Ω	188.65423	+0.54624408	+0.82709709			
<i>e</i>	0.2162704	<i>i</i>	31.36154	-0.00680683	-0.15366856			
<i>P</i>	4.17	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1998 08 31	704	(0.7+	2.9+)	1998 10 28	703	0.2+	0.3-	2000 03 09	704	0.4+	0.0
1998 08 31	704	0.1+	0.9-	1998 10 28	703	0.3+	0.7-	2000 03 09	704	0.0	1.1-
1998 08 31	704	0.2-	0.9+	1998 10 29	703	0.8+	0.7-	2000 03 09	704	0.3-	0.5+
1998 08 31	704	0.5-	0.1-	1998 10 29	703	0.2-	0.8-	2000 03 12	699	0.6-	0.3-
1998 08 31	704	0.3-	0.2+	1998 11 18	703	0.7+	1.4+	2000 03 12	699	0.2+	0.0
1998 10 27	703	0.0	0.4-	1998 11 18	703	0.4-	0.4+	2000 03 12	699	0.3-	0.3+
1998 10 27	703	0.0	0.1-	1998 11 18	703	0.3-	1.0+	2000 03 12	699	0.1-	0.0
1998 10 27	703	0.3-	0.1-	2000 03 09	704	0.9+	0.1+				

1998 UA₁₉ = 2000 DD₈₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			<i>P</i>			<i>Q</i>		
76.85992			(2000.0)					
<i>n</i>	0.21346651	ω	47.44649	+0.44600861	-0.89465784			
<i>a</i>	2.7727851	Ω	16.12208	+0.79159094	+0.38086809			
<i>e</i>	0.0708883	<i>i</i>	5.32316	+0.41768420	+0.23350985			
<i>P</i>	4.62	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 10 19	699	0.3+	0.7+	1998 11 15</

1998 UJ₁₉ = 2000 GU₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	302.18971		(2000.0)	P		Q	
<i>n</i>	0.36698241	ω	226.25337	-0.26797305		+0.94488370	
<i>a</i>	1.9321428	Ω	29.78634	-0.73873449		-0.07618747	
<i>e</i>	0.0577319	<i>i</i>	22.25118	-0.61843496		-0.31841838	
<i>P</i>	2.69	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 24	699	0.2-	0.3+	1998 10 29	704	0.9-	1.4+	2000 04 03	688	0.3+	0.7-
1998 09 24	699	1.0+	0.5+	1998 10 29	704	0.2-	0.0	2000 04 05	704	0.2+	0.1+
1998 09 24	699	0.7-	0.8+	1998 10 29	704	0.5+	0.1-	2000 04 05	704	0.2+	0.2-
1998 10 14	704	0.4+	0.3-	1998 11 16	566	0.9-	0.8-	2000 04 05	704	0.3+	0.5-
1998 10 14	704	0.5+	0.5-	1998 11 16	566	1.2-	0.6-	2000 04 05	704	0.1+	0.6-
1998 10 14	704	0.1+	0.1+	1998 11 16	566	1.0-	0.5-	2000 04 06	704	0.1-	0.2+
1998 10 14	704	0.6+	0.1+	1998 12 09	704	0.7+	1.1-	2000 04 06	704	0.3+	0.5+
1998 10 20	699	0.5+	0.5-	1998 12 09	704	0.0	1.3+	2000 04 06	704	0.4+	1.0+
1998 10 20	699	0.6+	0.3-	1998 12 09	704	0.7-	0.3-	2000 04 06	704	0.1-	0.8+
1998 10 20	699	1.7+	0.7-	1998 12 09	704	(2.2+ 0.0)		2000 04 06	704	0.4+	0.0
1998 10 28	704	0.6-	0.5+	1998 12 09	704	0.3+	0.3+	2000 04 07	704	0.1+	0.2+
1998 10 28	704	(0.7+ 2.1-)		2000 03 09	704	1.9-	0.2+	2000 04 07	704	0.0	0.4+
1998 10 28	704	0.5+	0.3-	2000 03 09	704	1.0-	0.6-	2000 04 07	704	0.7-	0.4-
1998 10 28	704	1.3-	0.5+	2000 03 09	704	0.4+	0.3+	2000 04 07	704	0.2-	0.1+
1998 10 28	704	1.2+	0.8+	2000 03 09	704	1.8+	0.5-	2000 04 07	704	0.4-	0.2-
1998 10 29	704	1.6-	0.5-	2000 04 03	688	0.1+	0.1-				

1998 UV₁₉ = 2000 GS₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.68626		(2000.0)	P		Q	
<i>n</i>	0.29274577	ω	112.50407	-0.89003089		-0.44930230	
<i>a</i>	2.2463407	Ω	40.90928	+0.36277564		-0.80064443	
<i>e</i>	0.0588039	<i>i</i>	6.77738	+0.27611385		-0.39635329	
<i>P</i>	3.37	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 10 03	691	1.0-	0.7-	1998 11 10	910	0.5+	0.6-	2000 04 05	704	0.2-	0.1-
1991 10 03	691	0.7+	0.5-	1998 11 11	910	0.4+	0.5-	2000 04 05	704	0.2-	0.1-
1991 10 03	691	1.7+	1.2-	1998 11 11	910	0.4+	0.1+	2000 04 05	704	0.3-	0.3-
1998 10 18	699	(3.6+ 1.9-)		1998 11 11	910	0.3+	0.1+	2000 04 06	704	0.3+	0.2+
1998 10 18	699	(4.4+ 1.3-)		1998 11 11	910	0.3+	0.2+	2000 04 06	704	0.3+	0.3+
1998 10 18	699	(4.1+ 1.5-)		1998 11 12	910	0.4+	0.2+	2000 04 06	704	0.5+	0.1+
1998 10 23	120	(3.9+ 0.9-)		1998 11 12	910	0.2+	0.2+	2000 04 06	704	0.5+	0.0
1998 10 23	120	(3.9+ 1.1-)		1998 11 12	910	0.3+	0.1+	2000 04 06	704	0.4+	0.1+
1998 10 23	120	(3.6+ 1.6-)		1998 11 16	566	1.5-	0.1-	2000 04 07	704	0.2+	0.1-
1998 10 29	120	(3.2+ 1.3-)		1998 11 16	566	1.7-	0.2-	2000 04 07	704	0.1+	0.7+
1998 10 29	120	(2.4+ 1.0-)		1998 11 16	566	1.4-	0.3-	2000 04 07	704	0.3-	0.2-
1998 11 10	699	0.0	0.8+	2000 02 10	704	1.5-	0.8-	2000 04 07	704	0.2-	0.1+
1998 11 10	699	0.7+	0.1+	2000 02 10	704	0.9-	1.2-	2000 04 07	704	0.0	0.2+
1998 11 10	699	0.6+	0.5+	2000 02 10	704	1.0-	1.7-				
1998 11 10	910	0.4+	0.5-	2000 04 05	704	0.1+	0.4-				

1998 UO₂₀ = 2000 EU₁₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.77189		(2000.0)	P		Q	
<i>n</i>	0.23358375	ω	261.69684	-0.61358420		-0.77452194	
<i>a</i>	2.6112050	Ω	227.32842	+0.78145649		-0.56767923	
<i>e</i>	0.0956546	<i>i</i>	12.06804	+0.11331451		-0.27902696	
<i>P</i>	4.22	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 20	699	1.1+	0.2-	1998 11 18	704	0.9+	0.2-	2000 03 12	699	0.4-	0.2-
1998 10 20	699	0.2+	0.2-	1998 11 18	704	0.2+	0.2-	2000 03 12	699	0.1-	0.2-
1998 10 20	699	0.4+	0.3-	1998 11 18	704	0.7-	0.0	2000 03 12	699	0.2-	0.1-
1998 10 28	120	0.1-	0.0	1998 11 18	704	0.1-	0.9+	2000 03 12	699	0.4-	0.1-
1998 10 29	120	0.1-	0.2+	1998 11 18	704	0.5-	0.4-	2000 03 13	704	0.8+	1.1+

1998 10 30	120	0.9-	0.7+	1998 11 21	704	0.5+	0.0	2000 03 13	704	0.4-	0.6+
1998 10 30	120	0.4+	0.9+	1998 11 21	704	0.2-	1.0-	2000 03 13	704	0.5+	0.6-
1998 11 10	704	0.3-	0.1-	1998 11 21	704	1.5+	0.8+	2000 03 13	704	0.4-	0.1-
1998 11 10	704	0.5-	0.1-	1998 12 11	699	0.1-	0.2-	2000 03 13	704	0.3+	0.4+
1998 11 10	704	1.4-	1.1+	1998 12 11	699	0.0	0.3-	2000 04 07	704	0.2-	0.3-
1998 11 10	704	(1.6- 2.2+)		1998 12 11	699	0.9+	0.9-	2000 04 07	704	0.2-	0.3-
1998 11 11	704	1.8+	0.6-	1999 02 04	704	0.2-	1.4+	2000 04 07	704	0.3+	0.0
1998 11 11	704	1.6-	0.8-	1999 02 04	704	0.4+	0.2-	2000 04 07	704	0.3+	0.1-
1998 11 11	704	1.0-	0.2+	1999 02 04	704	0.8-	1.6-	2000 04 07	704	0.1+	0.2-
1998 11 11	704	(2.2- 0.2+)		1999 02 04	704	0.3+	1.3+				

1998 UP₂₀ = 2000 FG₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	321.17215		(2000.0)	P		Q	
<i>n</i>	0.26854316	ω	171.63363	-0.76443778		+0.63696999	
<i>a</i>	2.3793590	Ω	48.42331	-0.59893148		-0.64453601	
<i>e</i>	0.1433198	<i>i</i>	7.64502	-0.23857068		-0.42289782	
<i>P</i>	3.67	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 28	120	1.0-	0.5+	1998 11 18	704	0.4-	0.5+	2000 03 12	704	0.1-	0.6-
1998 10 29	120	0.4+	0.1+	1998 11 18	704	0.4-	0.9+	2000 03 28	704	0.9-	0.0
1998 10 30	120	0.7-	0.3-	1998 11 18	704	(2.7- 1.9-)		2000 03 28	704	0.7-	0.3-
1998 10 30	120	1.3-	0.7+	1998 11 26	120	0.0	0.6-	2000 03 28	704	0.8-	0.5-
1998 11 09	910	1.4+	0.3+	1998 11 26	120	0.1-	0.8+	2000 03 28	704	1.1-	0.1-
1998 11 09	910	1.5+	0.4+	2000 01 07	704	0.6-	0.5-	2000 04 03	704	0.4+	0.2+
1998 11 10	910	1.8+	1.1-	2000 01 07	704	0.2+	0.5+	2000 04 03	704	0.0	0.6+
1998 11 10	910	(2.4+ 0.5-)		2000 01 07	704	0.1+	1.0+	2000 04 03	704	0.5+	0.6+
1998 11 10	910	(2.3+ 0.6-)		2000 01 07	704	0.1-	0.9-	2000 04 03	704	0.4+	0.9+
1998 11 10	910	0.6+	0.5-	2000 01 07	704	0.5+	1.0+	2000 04 03	704	0.1+	1.6+
1998 11 11	704	0.1+	0.5+	2000 03 05	704	0.9+	0.2+	2000 04 07	608	0.8+	1.0-
1998 11 11	704	0.3-	1.0-	2000 03 05	704	1.0+	0.3-	2000 04 07	608	0.9+	0.9-
1998 11 11	704	0.2+	1.4-	2000 03 05	704	0.3+	0.3-	2000 04 07	608	0.8+	0.9-
1998 11 13	910	0.1+	0.2-	2000 03 05	704	0.5+	0.4-	2000 04 08	704	0.3-	0.3+
1998 11 13	910	0.1-	0.2-	2000 03 12	704	1.6-	0.6-	2000 04 08	704	0.2-	0.2+
1998 11 13	910	0.1+	0.1-	2000 03 12	704	0.2+	0.0	2000 04 08	704	0.1-	0.2+
1998 11 18	704	0.9-	0.1+	2000 03 12	704	0.4+	0.1-	2000 04 08	704	0.2-	0.5+
1998 11 18	704	1.0-	0.6+	2000 03 12	704	0.7-	0.5-	2000 04 08	704	0.5-	0.1+

1998 UY₂₀ = 2000 GA₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	99.57051		(2000.0)	P		Q	
<i>n</i>	0.26001751	ω	45.23643	+0.17801960		-0.98387502	
<i>a</i>	2.4310897	Ω	34.52005	+0.89399085		+0.15436349	
<i>e</i>	0.1465320	<i>i</i>	1.74846	+0.41120481		+0.09034303	
<i>P</i>	3.79	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 29	120	0.7+	0.1-	1998 12 07	120	1.3+	0.2-	1998 12 22	120	0.5+	0.1-
1998 10 29	120	0.3+	0.1+	1998 12 07	120	0.6+	0.4+	1998 12 22	120	1.1+	1.1+
1998 10 30	120	0.2-	0.6+	1998 12 07	120	0.2+	0.0	1999 01 19	910	0.1+	0.6-
1998 10 30	120	1.2-	0.1+	1998 12 09	120	0.1+	0.9+	1999 01 19	910	0.1+	0.9-
1998 11 10	699	0.6+	0.6-	1998 12 09	120	0.2-	0.4-	1999 01 19	910	0.5+	0.5-
1998 11 10	699	0.4-	0.3-	1998 12 09	120	0.3+	0.4+	2000 04 03	691	0.4-	0.5-
1998 11 10	699	1.2+	1.0-	1998 12 12	120	(2.3+	0.5+)	2000 04 03	691	0.2-	0.5-
1998 11 11	704	0.5-	0.3-	1998 12 12	120	0.0	0.3+	2000 04 03	691	0.4-	0.5-
1998 11 11	704	1.0-	0.9-	1998 12 12	120	0.5-	0.4-	2000 04 05	704	0.1-	1.0-
1998 11 11	704	0.9+	1.2-	1998 12 12	120	0.4-	0.6+	2000 04 05	704	0.6-	0.2-
1998 11 11	704	(0.9+	2.8+)	1998 12 12	120	0.3-	0.0	2000 04 05	704	1.4+	0.2-
1998 11 11	704	0.1-	1.6+	1998 12 14	120	(2.0-	0.2+)	2000 04 05	704	0.5-	0.0
1998 11 19	691	0.4-	0.1-	1998 12 14	120	0.8-	0.2-	2000 04 05	704	0.7+	0.8+
1998 11 19	691	0.5-	0.1-	1998 12 15	120	(1.0+	2.2+)	2000 04 06	704	0.3+	0.5+
1998 11 19	691	0.4-	0.3-	1998 12 15	120	1.9-	1.4+	2000 04 06	704	0.1-	0.2+
1998 11 20	699	0.5+	0.0	1998 12 17	120	1.3-	0.1-	2000 04 06	704	0.3+	0.2+
1998 11 20	699	0.4+	0.5+	1998 12 17	120	0.2-	0.6-	2000 04 06	704	0.4-	1.1+
1998 11 20	699	0.8+	0.1-	1998 12 22	120	0.1+	0.7+				

2000 APR. 18

M.P.C. 40029

1998 UE₂₁ = 2000 EH₁₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	173.13998	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28215125	ω	129.68270	+0.99998291	+0.00478568	
<i>a</i>	2.3022266	Ω	230.04337	-0.00572319	+0.91858066	
<i>e</i>	0.1381854	<i>i</i>	0.25100	+0.00119334	+0.39520458	
<i>P</i>	3.49	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 31	704	(1.4- 2.4+)	1998 11 11	910	0.5+	0.5+	2000 03 11	704	0.3+	0.5+
1998 08 31	704	1.0- 0.2+	1998 11 14	691	1.9-	0.3-	2000 03 11	704	0.1+	0.1+
1998 08 31	704	0.5- 0.2+	1998 11 14	691	1.9-	0.4-	2000 03 11	704	0.2-	0.7-
1998 08 31	704	0.0 0.2+	1998 11 17	910	1.1+	0.3+	2000 03 11	704	0.2-	0.5-
1998 08 31	704	(5.7- 0.4+)	1998 11 17	910	1.3+	0.3+	2000 03 14	703	0.1+	0.4+
1998 10 18	699	0.6- 0.3+	1998 11 18	910	1.2+	0.3+	2000 03 14	703	0.3-	0.0
1998 10 18	699	0.2- 0.2+	1998 11 19	910	0.7+	0.2+	2000 03 14	703	1.9-	1.2+
1998 10 18	699	0.4- 0.5+	1998 11 19	910	0.8+	0.4+	2000 03 14	703	1.4+	0.6-
1998 10 29	120	0.7- 0.4-	1998 11 19	910	0.9+	0.2+	2000 03 26	699	0.4+	0.2-
1998 10 30	120	0.3- 0.1+	1998 11 21	704	0.4-	0.2-	2000 03 26	699	0.6-	0.1-
1998 10 30	120	0.6+ 0.4-	1998 11 21	704	1.1+	1.3-	2000 03 26	699	0.2+	0.4+
1998 10 30	120	0.3- 0.2-	1998 11 21	704	0.0 0.4-	0.4-	2000 03 26	699	0.2-	0.5-
1998 10 30	120	0.1+ 0.5-	1998 11 21	704	0.3+	0.5+	2000 04 02	691	0.3+	1.3-
1998 11 09	910	1.7+ 0.6+	1998 11 26	691	1.4-	0.0	2000 04 02	691	0.1+	0.6-
1998 11 09	910	1.9+ 0.3+	1998 11 26	691	1.7-	0.1+	2000 04 02	691	0.2+	0.7-
1998 11 10	910	1.6+ 0.3+	1998 11 26	691	1.6-	0.0	2000 04 04	704	0.6+	0.8+
1998 11 10	704	0.2- 0.1-	1998 12 08	699	1.2-	0.3-	2000 04 04	704	0.7-	0.3-
1998 11 10	699	0.2+ 0.7+	1998 12 08	699	0.8-	0.9+	2000 04 04	704	0.4-	0.6+
1998 11 10	704	0.3+ 0.6-	1998 12 08	699	(2.5- 0.7+)	0.7+	2000 04 05	704	0.2+	0.0
1998 11 10	704	0.5+ 1.4-	1999 02 07	691	0.6+	0.6-	2000 04 05	704	0.0 0.3+	
1998 11 10	704	0.5+ 1.1-	1999 02 07	691	0.9+	0.3-	2000 04 05	704	0.5+	0.7+
1998 11 10	699	1.0- 1.4+	1999 02 07	691	0.5+	0.4-	2000 04 05	704	0.0 1.0+	
1998 11 10	699	0.6- 1.1+	1999 02 09	691	0.9-	0.4-	2000 04 05	704	0.2+	0.7+
1998 11 11	704	0.5- 0.0	1999 02 09	691	0.6-	0.5-	2000 04 07	691	0.3-	0.2-
1998 11 11	704	0.4- 0.3-	1999 02 09	691	0.5-	0.4-	2000 04 07	691	0.3-	0.4-
1998 11 11	704	0.3- 0.2+	1999 02 13	691	1.1-	0.7-	2000 04 07	691	0.4-	0.2-
1998 11 11	704	(0.1+ 2.3-)	1999 02 13	691	0.4+	0.4-	2000 04 08	704	0.3+	0.3+
1998 11 11	910	0.6+ 0.7+	1999 02 13	691	0.8+	0.0	2000 04 08	704	1.0+	0.8+
1998 11 11	910	0.7+ 0.6+	2000 03 11	704	0.6+	0.3-	2000 04 08	704	0.1-	0.4+

1998 UN₂₂ = 2000 GQ₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.93714	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28875932	ω	275.54955	-0.75187398	-0.65574275	
<i>a</i>	2.2669679	Ω	223.49950	+0.63742159	-0.69645434	
<i>e</i>	0.1041954	<i>i</i>	5.70794	+0.16846139	-0.29146665	
<i>P</i>	3.41	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 19	691	0.5+ 0.4+	1998 10 29	704	1.2-	0.6-	1999 01 09	691	0.2-	0.4-
1998 10 19	691	0.5- 0.4-	1998 10 29	704	0.3+	0.6+	1999 01 09	691	0.4-	0.1+
1998 10 19	691	0.7+ 0.3+	1998 10 29	704	2.0-	0.5+	2000 04 07	704	0.3+	0.4+
1998 10 19	699	0.8+ 1.2+	1998 10 29	704	0.1-	1.6-	2000 04 07	704	0.7+	0.1-
1998 10 19	699	0.8+ 0.2+	1998 10 29	704	0.5-	0.3-	2000 04 07	704	0.4-	0.5+
1998 10 19	699	0.0 0.1+	1998 11 10	704	1.0-	0.9-	2000 04 07	704	0.5+	0.3+
1998 10 26	910	0.9+ 1.1+	1998 11 10	704	0.9-	1.2-	2000 04 07	704	0.5-	0.4+
1998 10 26	910	0.8+ 0.7+	1998 11 10	704	0.7-	0.3+	2000 04 08	704	1.3-	1.4+
1998 10 26	910	0.9+ 1.2+	1998 11 11	704	(0.3- 2.0+)	0.3-	2000 04 08	704	1.0+	0.9-
1998 10 28	704	0.0 0.2-	1998 11 11	704	1.1+	1.0-	2000 04 08	704	0.7-	0.4+
1998 10 28	704	0.3- 1.8+	1998 11 11	704	0.3+	0.6+	2000 04 08	704	0.9+	0.9+
1998 10 28	704	0.5+ 0.2-	1998 11 11	704	(0.4+ 2.5-)	0.4+	2000 04 08	704	0.3+	0.1-
1998 10 28	704	0.8- 1.1+	1999 01 09	691	0.4-	0.3-				

1998 UZ₂₂ = 2000 GS₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	138.81036	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28345233	ω	180.67395	+0.71466467	-0.69884023	
<i>a</i>	2.2951762	Ω	223.71094	+0.64194895	+0.67211941	
<i>e</i>	0.1930275	<i>i</i>	2.45584	+0.27776959	+0.24469947	
<i>P</i>	3.48	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 30	120	0.6+ 0.5-	1998 11 18	704	0.8+	0.9-	1998 12 08	699	0.2-	0.8-
1998 10 30	120	0.5+ 0.1-	1998 11 18	704	0.2-	0.9+	1998 12 15	910	0.7-	0.4+
1998 10 31	120	0.0 0.8+	1998 11 18	704	0.7-	1.3+	1998 12 15	910	0.6-	0.4+
1998 10 31	120	0.3+ 0.1-	1998 11 18	704	0.7-	1.2+	1998 12 15	910	0.7-	0.5+
1998 10 31	120	0.3- 0.6-	1998 11 19	699	0.1+	0.3+	2000 03 29	691	0.2+	1.0-
1998 11 11	704	0.1- 0.3-	1998 11 19	699	0.5+	0.7+	2000 03 29	691	0.0 0.7-	
1998 11 11	704	0.7+ 0.9-	1998 11 19	699	0.8+	0.0	2000 03 29	691	0.1+	1.1-
1998 11 11	704	1.7- 1.1-	1998 11 23	691	0.7-	0.7-	2000 04 05	704	0.0 0.4+	
1998 11 14	691	(7.3- 11.2+)	1998 11 23	691	0.6-	0.6-	2000 04 05	704	0.4-	0.4-
1998 11 14	691	(7.4- 15.1+)	1998 11 23	691	0.6-	0.5-	2000 04 05	704	0.3+	0.4+
1998 11 14	691	(5.9- 18.1+)	1998 11 27	691	0.3-	0.4-	2000 04 05	704	0.7-	0.1-
1998 11 16	691	0.1- 0.4-	1998 11 27	691	(33.7+ 2.6-)	2.6-	2000 04 06	704	0.1-	0.2+
1998 11 16	691	0.1+ 0.3-	1998 11 27	691	0.3-	1.1+	2000 04 06	704	0.5-	0.5+
1998 11 16	691	0.1+ 0.3-	1998 12 07	910	1.5+	0.4-	2000 04 06	704	0.3+	0.6+
1998 11 17	910	0.3- 0.3+	1998 12 07	910	1.4+	0.2-	2000 04 06	704	0.8+	0.1+
1998 11 17	910	0.0 0.3+	1998 12 07	910	1.5+	0.2-	2000 04 06	704	0.2-	0.8+
1998 11 18	704	0.1- 0.5+	1998 12 08	699	0.4+	0.4+				
1998 11 18	704	0.2- 0.4+	1998 12 08	699	0.3-	0.1-				

1998 UA₂₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.95856	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.27280793	ω	342.12253	+0.39373905	-0.91153370	
<i>a</i>	2.3544965	Ω	84.55428	+0.85725477	+0.31753832	
<i>e</i>	0.1962760	<i>i</i>	6.84476	+0.33178883	+0.26129623	
<i>P</i>	3.61	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 24	699	0.1- 0.3+	1998 11 13	704	0.2+	0.6+	1998 11 16	566	0.1-	0.6-
1998 09 24	699	1.0+ 0.0	1998 11 13	704	0.0 0.3+	0.3+	1998 11 16	566	0.2-	0.8-
1998 09 24	699	0.3- 0.3+	1998 11 13	704	0.2-	1.1+	2000 03 10	691	0.5+	0.5-
1998 10 17	699	0.7- 0.4-	1998 11 13	704	1.4+	0.4-	2000 03 10	691	0.3+	0.2+
1998 10 17	699	0.4- 0.2-	1998 11 13	704	(2.7- 1.6-)	1.6-	2000 03 10	691	0.3+	0.4-
1998 10 17	699	0.3- 0.8-	1998 11 14	699	0.6+	1.3+	2000 04 07	699	0.3-	0.1+
1998 10 20	699	0.3- 0.2-	1998 11 14	699	(2.0+ 1.3+)	1.3+	2000 04 07	699	0.3-	0.0
1998 10 20	699	1.1- 0.2+	1998 11 14	699	1.3+	0.5+	2000 04 07	699	0.1-	1.4+
1998 10 20	699	0.6- 0.3+	1998 11 16	566	0.1+	0.5-	2000 04 07	699	0.1+	0.1+

1998 UM₂₅ = 2000 GB₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	150.88250	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28531183	ω	200.63205	+0.92118046	-0.38911165	
<i>a</i>	2.2851929	Ω	182.28089	+0.37051375	+0.88043782	
<i>e</i>	0.1151704	<i>i</i>	6.23332	+0.11893744	+0.27096376	
<i>P</i>	3.45	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 31	704	0.7+	0.6+	1998 11 11	704	0.2+	0.3+	2000 03 11	704	0.2-	0.3-
1998 08 31	704	1.1-	1.5+	1998 11 11	704	0.4+	0.5+	2000 03 11	704	0.1-	0.2+
1998 08 31	704	(3.1-	2.5-)	1998 11 11	704	0.2-	0.9-	2000 03 11	704	0.7-	0.3+
1998 08 31	704	(5.5-	0.2-)	1998 11 11	704	0.3-	1.6-	2000 03 11	704	1.0-	0.2+
1998 10 18	809	0.9+	0.6+	1998 11 11	704	0.0	1.0-	2000 03 11	704	0.7-	1.1-
1998 10 18	809	0.4+	0.4+	1998 11 19	699	0.3-	0.3+	2000 04 05	704	0.2+	0.1+
1998 10 18	809	0.5-	0.5+	1998 11 19	699	0.4-	0.3+	2000 04 05	704	0.4+	0.1-
1998 10 19	809	1.7+	0.5+	1998 11 19	699	0.1+	0.0	2000 04 05	704	0.3+	0.1-

M.P.C. 40030

1998 10 19	809	0.2+	0.3+	2000 03 10	704	1.5-	0.0	2000 04 05	704	0.0	0.2+
1998 10 19	809	0.6+	0.2+	2000 03 10	704	0.7-	0.4-	2000 04 05	704	0.0	0.3+
1998 10 20	699	0.7-	0.9-	2000 03 10	704	0.7-	0.0	2000 04 06	704	0.3+	0.3+
1998 10 20	699	1.5-	0.5+	2000 03 10	704	0.9-	0.2-	2000 04 06	704	0.1+	0.7+
1998 10 20	699	1.2-	0.3+	2000 03 10	704	2.0+	0.0	2000 04 06	704	1.0+	0.4-
1998 11 10	704	0.6+	0.6+	2000 03 11	704	0.4-	0.1-	2000 04 07	699	1.5+	0.3-
1998 11 10	704	0.7+	0.5-	2000 03 11	704	0.0	0.8+	2000 04 07	699	1.0+	0.8+
1998 11 10	704	1.1+	0.8-	2000 03 11	704	0.6+	0.8+	2000 04 07	699	0.5-	0.8+
1998 11 10	704	1.0-	0.3-	2000 03 11	704	0.6+	0.0	2000 04 07	699	0.2+	0.3+
1998 11 10	704	0.9-	1.0+	2000 03 11	704	0.1-	0.5-				

1998 UN₂₆ = 2000 ES₈₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	89.22607	(2000.0)		P	Q		
<i>n</i>	0.22893722	ω	346.76151	+0.40534719	-0.90652272		
<i>a</i>	2.6464180	Ω	79.22357	+0.84928508	+0.32569630		
<i>e</i>	0.0934308	<i>i</i>	6.89550	+0.33824328	+0.26858607		
<i>P</i>	4.31	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 18	809	0.3+	0.1+	1998 11 10	704	1.2+	1.8-	2000 03 05	704	0.4+	0.7+
1998 10 18	809	0.4+	0.9+	1998 11 10	704	0.1-	1.1-	2000 03 05	704	0.7+	0.1+
1998 10 18	809	0.4-	0.2+	1998 11 11	704	0.3-	1.6+	2000 03 12	704	0.0	0.5-
1998 10 19	809	0.6-	0.1-	1998 11 11	704	0.5+	0.5-	2000 03 12	704	0.1+	0.2-
1998 10 19	809	0.2-	0.0	1998 11 11	704	0.0	0.5+	2000 03 12	704	0.6-	1.0-
1998 10 19	809	0.1+	0.8-	1998 11 11	704	0.8-	0.5+	2000 03 12	704	0.7-	0.0
1998 11 10	704	0.4+	0.3+	2000 03 05	704	0.5+	0.1-	2000 03 12	704	0.8-	0.4-
1998 11 10	704	0.6-	0.1-	2000 03 05	704	0.1+	0.9+				
1998 11 10	704	0.0	0.2+	2000 03 05	704	0.3+	0.5+				

1998 UM₂₉ = 2000 FO₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	85.92199	(2000.0)		P	Q		
<i>n</i>	0.22818492	ω	10.63012	+0.21720779	-0.95414400		
<i>a</i>	2.6522314	Ω	67.07727	+0.87836673	+0.09900483		
<i>e</i>	0.1628604	<i>i</i>	12.92331	+0.42578477	+0.28250180		
<i>P</i>	4.32	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 18	809	1.3+	0.3+	1998 12 12	120	0.1+	0.0	2000 03 29	704	0.1+	0.4-
1998 10 18	809	1.1+	0.6+	1998 12 12	120	0.5-	0.4-	2000 03 29	704	0.1-	0.4-
1998 10 18	809	1.3+	0.8+	1998 12 15	120	0.2+	0.2-	2000 03 29	704	0.4-	0.9-
1998 10 19	809	0.6-	0.5+	1998 12 15	120	0.0	0.2-	2000 04 03	704	0.2+	1.7+
1998 10 19	809	0.5-	0.5+	1998 12 25	120	1.9+	1.0+	2000 04 03	704	0.2+	0.5+
1998 10 19	809	0.2-	0.5+	1998 12 25	120	0.8+	0.1+	2000 04 03	704	0.4-	1.0-
1998 11 11	704	0.3-	0.7-	1998 12 25	120	0.6+	0.4+	2000 04 03	704	0.4+	0.3-
1998 11 11	704	0.9-	0.3-	2000 03 15	699	0.4-	0.3-	2000 04 08	704	0.5+	0.2-
1998 11 11	704	0.2-	0.2+	2000 03 15	699	0.5-	0.1-	2000 04 08	704	0.1-	0.7+
1998 11 14	699	1.3-	0.8-	2000 03 15	699	0.2-	0.2-	2000 04 08	704	0.4+	1.0+
1998 11 14	699	1.4-	0.7-	2000 03 15	699	0.5-	0.3-	2000 04 08	704	0.3+	0.4+
1998 11 14	699	1.3-	0.8-	2000 03 29	704	0.0	0.5-	2000 04 08	704	0.5+	0.8+
1998 12 12	120	0.5+	0.2+	2000 03 29	704	0.3+	0.4+				

1998 UY₂₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	120.95521	(2000.0)		P	Q		
<i>n</i>	0.29094639	ω	343.42734	+0.40593247	-0.90490208		
<i>a</i>	2.2555930	Ω	82.47474	+0.85245224	+0.32443747		
<i>e</i>	0.0497536	<i>i</i>	7.41534	+0.32946018	+0.27548605		
<i>P</i>	3.39	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	3

2000 APR. 18

Residuals in seconds of arc

1995 12 29	118	0.4-	0.1+	1998 10 19	809	0.7+	0.7+	2000 04 04	699	0.8-	0.1+
1995 12 29	118	0.5+	0.8-	1998 11 14	699	1.0-	0.3+	2000 04 04	699	1.1+	0.7+
1995 12 29	118	0.1-	0.3+	1998 11 14	699	0.8-	0.5+	2000 04 04	699	0.6+	0.2+
1998 10 18	809	1.2-	0.3-	1998 11 14	699	0.4-	0.4-	2000 04 04	699	0.5+	0.8+
1998 10 18	809	0.5-	1.2-	1998 11 18	704	0.0	0.2+	2000 04 09	699	0.5+	1.6-
1998 10 18	809	1.9-	1.0-	1998 11 18	704	0.0	0.1-	2000 04 09	699	0.5-	0.7+
1998 10 19	809	1.2+	0.4+	1998 11 18	704	1.8+	0.2-	2000 04 09	699	1.0-	0.2-
1998 10 19	809	0.6+	0.1-	1998 11 18	704	1.2+	1.8+	2000 04 09	699	0.2-	0.1-

1998 UJ₃₂ = 2000 GL₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	166.97742	(2000.0)		P	Q		
<i>n</i>	0.30269581	ω	171.09668	+0.79589793	-0.60082948		
<i>a</i>	2.1968401	Ω	226.10657	+0.54891332	+0.76803090		
<i>e</i>	0.1126203	<i>i</i>	5.93402	+0.25542248	+0.22165843		
<i>P</i>	3.26	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 27	327	0.5-	0.2+	1998 12 16	704	0.5+	0.1+	1999 03 10	704	0.5-	1.8+
1998 10 27	327	0.3-	0.1-	1998 12 16	704	0.4+	0.3+	1999 03 10	704	0.6+	0.4+
1998 10 27	327	0.4-	0.2-	1998 12 16	704	1.0-	0.4+	2000 04 06	704	0.2+	0.3-
1998 11 03	327	0.1+	0.5-	1998 12 16	704	0.4+	0.0	2000 04 06	704	0.4+	0.2-
1998 11 03	327	0.1-	0.5-	1998 12 16	704	0.4-	0.0	2000 04 06	704	0.0	0.9-
1998 11 03	327	0.1-	0.4-	1998 12 22	704	0.1+	0.1-	2000 04 06	704	0.8+	0.3-
1998 11 04	327	0.3+	0.3-	1998 12 22	704	0.6+	0.6-	2000 04 06	704	0.2-	0.4+
1998 11 04	327	0.3+	0.3-	1998 12 22	704	0.6+	0.8-	2000 04 08	704	0.4-	0.6-
1998 11 04	327	0.1-	0.4-	1998 12 22	704	0.5+	1.2-	2000 04 08	704	0.7-	0.1-
1998 12 15	704	0.3+	0.4+	1998 12 22	704	0.4+	0.8-	2000 04 08	704	0.8-	0.4-
1998 12 15	704	(1.3+	2.9+)	1999 03 10	704	1.2-	1.1+	2000 04 08	704	0.4-	0.6-
1998 12 15	704	0.2-	0.3+	1999 03 10	704	0.0	1.6+	2000 04 08	704	0.6+	0.1+
1998 12 15	704	1.4-	0.2+	1999 03 10	704	1.0+	0.7-				

1998 UL₃₂ = 1998 VT₃₅ = 2000 GY₁₀₆Id. G. V. Williams (d, *MPC* 33590; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	141.67940	(2000.0)		P	Q		
<i>n</i>	0.28091017	ω	359.50054	+0.55404703	-0.82533503		
<i>a</i>	2.3090025	Ω	56.85009	+0.76424059	+0.45239961		
<i>e</i>	0.0346297	<i>i</i>	7.47197	+0.33010332	+0.33787082		
<i>P</i>	3.51	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 29	327	0.0	0.1+	1998 12 09	327	1.2-	1.4+	1998 12 17	704	0.8+	0.2-
1998 10 29	327	0.1-	0.2-	1998 12 13	327	1.9-	0.7+	1998 12 17	704	1.5+	0.7-
1998 10 29	327	0.0	0.2+	1998 12 13	327	1.0-	1.0+	2000 04 07	704	0.2+	0.4+
1998 10 30	327	0.7+	0.8-	1998 12 13	327	0.0	0.7+	2000 04 07	704	0.2-	0.1+
1998 10 30	327	0.4-	0.0	1998 12 14	704	0.3-	0.1-	2000 04 07	704	0.1+	0.1+
1998 10 30	327	0.0	0.4+	1998 12 14	704	0.5-	1.1-	2000 04 07	704	0.8+	0.1+
1998 11 09	327	0.5+	0.2-	1998 12 14	704	(0.6+	2.3-)	2000 04 07	704	0.4+	0.7-
1998 11 09	327	0.1-	0.2+	1998 12 14	704	0.7+	0.8-	2000 04 08	704	0.2-	0.6-
1998 11 09	327	0.0	0.2-	1998 12 17	704	1.2+	0.0	2000 04 08	704	1.5-	0.6+
1998 12 09	327	0.9-	0.7+	1998 12 17	704	1.5+	1.0-	2000 04 08	704	0.4+	0.1-
1998 12 09	327	0.9-	1.0+	1998 12 17	704	0.7+	0.9-				

1998 UU₃₇ = 1998 VE₈ = 2000 ER₉₀Id. G. V. Williams (d, *MPC* 34339), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	42.94407		(2000.0)	P	Q
n	0.22343626	ω	272.86892	-0.37758142	-0.92297232
a	2.6896779	Ω	199.82821	+0.91265414	-0.35733814
e	0.1558602	i	12.69231	+0.15650781	-0.14293898
P	4.41	H	13.9	G 0.15	U 3

2000 APR. 18

M.P.C. 40031

Residuals in seconds of arc

1998 10 28	704	0.9−	0.3+	1998 11 14	699	0.5+	0.7+	2000 03 13	704	0.3+	0.4−
1998 10 28	704	0.2+	0.5+	1998 11 14	699	1.1−	0.1+	2000 03 13	704	0.3+	0.3−
1998 10 28	704	0.0+	0.2+	2000 01 11	704	0.2+	0.2−	2000 03 13	704	0.5+	0.1+
1998 10 28	704	0.8+	0.1−	2000 01 11	704	0.3−	0.6+	2000 03 13	704	0.2+	0.5−
1998 10 29	704	0.5−	0.1−	2000 01 11	704	0.1−	1.5+	2000 04 04	704	(0.4+	2.1+)
1998 10 29	704	0.4−	0.2+	2000 01 11	704	0.1+	0.1+	2000 04 04	704	0.3−	0.6−
1998 10 29	704	0.1−	0.9−	2000 01 11	704	0.1−	0.6+	2000 04 04	704	1.1+	0.9−
1998 10 29	704	0.1−	0.7−	2000 02 07	704	0.1−	0.3+	2000 04 07	608	0.5−	0.8−
1998 10 29	704	0.2+	0.3+	2000 02 07	704	0.1−	0.1+	2000 04 07	608	0.2−	1.1−
1998 11 10	704	1.1+	0.3−	2000 02 07	704	0.6−	0.6+	2000 04 07	608	0.3−	1.0−
1998 11 10	704	0.5−	0.4−	2000 02 07	704	0.4−	0.3−	2000 04 08	704	0.6+	0.1−
1998 11 10	704	1.0+	1.0−	2000 03 09	704	0.1+	0.0	2000 04 08	704	0.7+	0.0
1998 11 10	704	0.8−	1.2−	2000 03 09	704	0.1−	0.5+	2000 04 08	704	0.5+	1.5+
1998 11 11	704	0.7+	0.2−	2000 03 09	704	0.7+	0.9+	2000 04 08	704	0.2+	0.9+
1998 11 11	704	0.2−	0.1−	2000 03 09	704	0.3+	0.6+	2000 04 08	704	0.2−	0.6+
1998 11 11	704	0.3+	0.0	2000 03 10	608	0.6−	0.7−	2000 04 10	704	0.3−	0.8+
1998 11 11	704	(2.5−	1.3−)	2000 03 10	608	0.6−	0.8−	2000 04 10	704	1.3−	0.0
1998 11 11	704	0.8−	0.5+	2000 03 10	608	0.7−	1.7−	2000 04 10	704	0.1−	0.1−
1998 11 14	699	0.9+	1.0+	2000 03 13	704	0.6+	0.4−				

1998 UB₄₀ = 1998 VO₈ = 2000 GD₇₀Id. A. Doppler (d, *MPC* 33786), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	84.15099	<i>P</i>	<i>Q</i>
<i>n</i>	0.28069859	ω	84.07309
<i>a</i>	2.3101627	Ω	14.90546
<i>e</i>	0.1406521	<i>i</i>	5.70455
<i>P</i>	3.51	<i>H</i>	14.6
		<i>G</i>	0.15
		<i>U</i>	4

Residuals in seconds of arc

1998 09 14	699	1.2+	0.8+	1998 10 29	704	1.2−	0.2−	1998 11 17	699	0.7−	0.3+
1998 09 14	699	0.6+	1.1+	1998 10 29	704	0.4−	0.1+	1998 11 17	699	0.2−	1.0+
1998 09 14	699	0.9+	0.8+	1998 10 29	327	0.1+	0.7+	1998 11 17	699	0.2+	0.9+
1998 09 30	120	1.3−	0.8−	1998 10 29	327	0.4−	0.4+	2000 04 05	704	0.2−	0.0
1998 09 30	120	1.1−	0.2−	1998 10 29	327	0.2−	0.3+	2000 04 05	704	0.3+	0.0
1998 09 30	691	0.5−	0.2−	1998 11 10	704	0.3+	0.5+	2000 04 05	704	0.5+	0.9+
1998 09 30	691	0.4−	0.3−	1998 11 10	704	0.5+	0.6−	2000 04 05	704	0.5+	1.1+
1998 09 30	691	0.2−	1.0−	1998 11 10	704	0.6+	0.3−	2000 04 06	704	0.4−	0.3+
1998 10 11	699	0.5−	0.8+	1998 11 10	704	0.9+	0.5−	2000 04 06	704	0.3−	0.5+
1998 10 11	699	0.2−	0.6+	1998 11 11	704	0.4−	0.8−	2000 04 06	704	0.5+	0.6+
1998 10 11	699	0.1−	1.2+	1998 11 11	704	0.7−	0.3−	2000 04 06	704	0.3+	1.0+
1998 10 28	704	0.2+	0.3−	1998 11 11	704	0.3+	1.0+	2000 04 06	704	1.9+	1.1+
1998 10 28	704	0.1+	0.8+	1998 11 11	704	0.7+	0.5−	2000 04 07	704	0.0	0.3−
1998 10 28	704	1.4+	1.2−	1998 11 11	704	0.3−	1.1−	2000 04 07	704	0.4−	0.1−
1998 10 28	704	0.3−	0.6+	1998 11 14	327	0.2−	0.7+	2000 04 07	704	0.4−	0.1+
1998 10 29	704	0.1+	0.2+	1998 11 14	327	0.2+	0.4+	2000 04 07	704	0.1−	0.1−
1998 10 29	704	1.0−	0.5−	1998 11 14	327	0.0	0.8+				

1998 UG₄₀ = 1998 VS₈ = 2000 CO₃₇Id. A. Doppler (d, *MPC* 34061; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	103.61932	<i>P</i>	<i>Q</i>
<i>n</i>	0.17915244	ω	69.60860
<i>a</i>	3.1164074	Ω	299.28783
<i>e</i>	0.1743362	<i>i</i>	3.92110
<i>P</i>	5.50	<i>H</i>	13.6
		<i>G</i>	0.15
		<i>U</i>	5

Residuals in seconds of arc

1998 10 28	704	0.1−	1.0+	1998 11 10	704	0.0	0.8−	2000 02 03	691	0.0	0.4−
1998 10 28	704	0.9−	1.3+	1998 11 10	704	1.7−	2.0−	2000 02 03	704	1.2+	0.1−
1998 10 28	704	0.2+	0.9+	1998 11 11	704	1.9+	1.2+	2000 02 03	704	0.1−	0.8+
1998 10 28	704	0.2−	0.2+	1998 11 11	704	0.4+	1.2−	2000 02 03	704	1.4+	0.1−
1998 10 29	704	0.2−	0.4−	1998 11 11	704	0.2+	0.6+	2000 02 03	704	1.0−	0.6+
1998 10 29	704	0.2−	0.6−	1998 11 11	704	1.1+	1.6−	2000 02 03	704	0.5−	0.0
1998 10 29	704	0.1+	0.3−	1998 11 17	699	0.5−	1.4+	2000 02 05	704	0.3−	1.0−

1998 10 29	704	0.4−	0.4−	1998 11 17	699	0.0	1.7+	2000 02 05	704	0.3−	0.3−
1998 10 29	704	1.2+	0.0	1998 11 17	699	0.9−	0.7+	2000 02 05	704	0.3−	0.8+
1998 11 10	704	0.3+	0.8−	2000 02 03	691	0.1−	0.3−	2000 02 05	704	0.1−	0.7+
1998 11 10	704	0.4−	1.0−	2000 02 03	691	0.1+	0.5−				

1998 UV₄₁ = 2000 EU₁₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	136.59207	<i>P</i>	<i>Q</i>
<i>n</i>	0.26098479	ω	276.68742
<i>a</i>	2.4250791	Ω	100.34824
<i>e</i>	0.2077561	<i>i</i>	2.74074
<i>P</i>	3.78	<i>H</i>	14.6
		<i>G</i>	0.15
		<i>U</i>	4

Residuals in seconds of arc

1998 08 31	704	1.4−	0.8−	1998 10 29	704	0.1+	0.5−	1998 12 11	699	0.8−	0.7+
1998 08 31	704	0.6−	1.1+	1998 10 29	704	0.3−	0.2−	1998 12 11	699	0.5−	0.0
1998 08 31	704	0.3−	0.7−	1998 10 29	704	0.0	0.0	1998 12 11	699	0.5−	0.4−
1998 08 31	704	0.3+	0.7−	1998 10 29	704	0.1−	0.1−	2000 03 11	699	0.1−	0.1+
1998 08 31	704	(2.6+	0.9+)	1998 11 10	704	1.4+	0.6−	2000 03 11	699	0.4−	0.1−
1998 10 11	699	0.9+	1.2+	1998 11 10	704	0.5−	0.4+	2000 03 11	699	0.4−	0.2−
1998 10 11	699	0.8+	1.3+	1998 11 10	704	0.3+	0.4−	2000 03 11	699	0.7−	0.1+
1998 10 11	699	1.0+	0.8+	1998 11 10	704	0.1+	0.1+	2000 03 12	704	0.6+	0.3+
1998 10 28	704	0.0	0.1+	1998 11 11	704	0.3−	0.5+	2000 03 12	704	0.9+	0.4−
1998 10 28	704	0.4−	0.2−	1998 11 11	704	0.5+	0.3−	2000 03 12	704	0.2−	0.1−
1998 10 28	704	0.4−	0.2−	1998 11 11	704	0.3−	0.8−	2000 03 12	704	0.3+	0.5+
1998 10 28	704	0.7+	0.3+	1998 11 11	704	0.6−	0.4−				
1998 10 29	704	0.2+	0.1+	1998 11 11	704	0.0	0.3−				

1998 UL₄₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	126.19163	<i>P</i>	<i>Q</i>
<i>n</i>	0.28460087	ω	197.63286
<i>a</i>	2.2889971	Ω	210.57445
<i>e</i>	0.1014376	<i>i</i>	6.02384
<i>P</i>	3.46	<i>H</i>	15.8
		<i>G</i>	0.15
		<i>U</i>	4

Residuals in seconds of arc

1997 07 03	691	0.0	0.1+	1998 10 28	704	(2.0−	0.0)	1998 11 11	704	0.8+	0.5−
1997 07 03	691	0.0	0.2+	1998 10 29	704	1.4+	0.0	1998 11 11	704	(2.9−	1.0−)
1997 07 03	691	0.1+	0.5+	1998 10 29	704	0.0	1.5+	1998 11 14	699	1.0−	0.4+
1998 10 18	691	0.6−	0.4+	1998 10 29	704	0.4+	0.1+	1998 11 14	699	0.1−	0.7+
1998 10 18	691	0.7−	0.4+	1998 10 29	704	0.5+	0.3+	1998 11 14	699	0.4+	0.8−
1998 10 18	691	(1.5+	5.3−)	1998 10 29	704	0.1−	0.6+	2000 04 06	699	0.8−	1.4+
1998 10 28	704	0.1−	0.3−	1998 11 11	704	0.4+	1.0+	2000 04 06	699	1.1+	0.0
1998 10 28	704	0.2+	0.2+	1998 11 11	704	1.0−	1.7−	2000 04 06	699	0.2+	0.5−
1998 10 28	704	0.8−	0.6−	1998 11 11	704	0.1−	0.1+	2000 04 06	699	0.0	0.6+

1998 VJ = 2000 GB₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	84.13071	<i>P</i>	<i>Q</i>
<i>n</i>	0.22968895	ω	27.09148
<i>a</i>	2.6406407	Ω	65.95321
<i>e</i>	0.1629430	<i>i</i>	15.36457
<i>P</i>	4.29	<i>H</i>	14.1
		<i>G</i>	0.15
		<i>U</i>	3

Residuals in seconds of arc

1998 11 08	758	0.1−	0.1+	1998 11 20	758	0.0	0.4−	1998 12 11	699	0.5+	1.3+
1998 11 08	758	0.7−	1.2−	1998 11 20	758	0.0	0.3−	1998 12 14	704	0.7−	0.4−
1998 11 08	758	0.3−	0.3−	1998 11 20	758	0.2−	0.3−	1998 12 14	704	1.3+	0.6+
1998 11 09	758	0.8+	0.2−	1998 11 20	758	0.1+	0.5−	1998 12 14	704	0.5+	0.3−
1998 11 09	758	0.9−	0.0	1998 11 20	699	0.3+	0.3−	1998 12 14	704	0.3−	0.4+
1998 11 09	758	0.6+	0.1+	1998 11 20	699	1.0+	1.1+	1998 12 14	704	0.6−	0.4+
1998 11 09	758	0.3+	1.3−	1998 11 20	699	0.3−	0.3−	1998 12 17	704	0.8−	0.3−
1998 11 10	758	0.3+	0.0	1998 11 24	704	1.0+	0.6−	1998 12 17	704	1.2−	0.3−

1998 11 10	758	0.5−	0.5−	1998 11 24	704	1.1+	0.6−	1998 12 17	704	0.7−	0.1+
1998 11 10	758	0.0	0.0	1998 11 24	704	0.1+	0.2−	1998 12 17	704	1.1−	0.8−
1998 11 10	758	0.5−	0.1−	1998 11 24	704	1.0+	0.6+	1998 12 17	704	1.2−	0.0
1998 11 10	758	0.2−	0.2+	1998 11 24	704	0.6+	1.3+	1998 12 19	758	0.0	0.3+
1998 11 13	758	0.6−	0.0	1998 11 25	758	0.3−	0.8+	1998 12 19	758	0.2+	0.3+
1998 11 13	758	1.0−	0.2+	1998 11 25	758	0.2−	0.3+	1998 12 19	758	0.0	0.2+
1998 11 13	758	0.6+	0.0	1998 11 25	758	0.2−	0.5+	1999 01 06	758	0.1−	0.1+
1998 11 14	758	0.2+	0.4+	1998 11 27	758	0.4−	0.2+	1999 01 06	758	0.5+	1.0−
1998 11 14	758	0.3−	0.1+	1998 11 27	758	0.1−	0.3+	1999 01 06	758	0.1+	0.0
1998 11 14	758	0.6+	0.4−	1998 11 27	758	0.1−	0.4+	1999 01 06	699	0.5+	0.7−
1998 11 15	758	0.3+	0.2−	1998 11 28	758	0.4+	0.2+	1999 01 06	699	1.0+	0.8−
1998 11 15	758	0.4−	0.2+	1998 11 28	758	0.5+	0.1−	1999 01 06	699	0.0	0.7−
1998 11 15	758	0.3−	0.0	1998 11 28	758	0.2−	0.1+	2000 04 04	704	0.2−	0.2+
1998 11 17	758	0.0	0.0	1998 11 29	758	0.1+	0.6+	2000 04 04	704	0.3−	0.8+
1998 11 17	758	0.1−	0.1+	1998 11 29	758	0.6+	0.2+	2000 04 04	704	0.1−	0.6+
1998 11 17	758	0.1+	0.1+	1998 11 29	758	0.2+	0.4+	2000 04 04	704	0.0	0.7+
1998 11 19	758	0.1−	0.0	1998 12 09	758	0.4−	0.1+	2000 04 04	704	0.0	0.6−
1998 11 19	758	0.2−	0.1−	1998 12 09	758	0.2+	0.0	2000 04 08	704	0.2+	0.9−
1998 11 19	758	0.3−	0.0	1998 12 09	758	0.0	0.2+	2000 04 08	704	0.1−	0.1+
1998 11 20	758	0.4−	0.4−	1998 12 11	699	0.5+	0.6+	2000 04 08	704	0.6+	0.9−
1998 11 20	758	0.8−	0.1+	1998 12 11	699	0.5+	0.5+				

1998 VC₃ = 2000 ER₇₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	162.70649		(2000.0)		P		Q				
<i>n</i>	0.27074512	ω	44.02446		+0.99863719		+0.05119363				
<i>a</i>	2.3664407	Ω	313.03817		−0.05089560		+0.91226231				
<i>e</i>	0.2006439	<i>i</i>	0.79549		−0.01154967		+0.40639474				
<i>P</i>	3.64	<i>H</i>	16.7		<i>G</i>	0.15	<i>U</i>	6			
Residuals in seconds of arc											
1998 11 10	910	0.6+	0.3−	1998 11 11	704	(5.2−	1.2−)	2000 03 09	691	0.1−	0.3−
1998 11 10	910	0.3+	0.2−	1998 11 12	910	0.0	0.2+	2000 03 12	691	0.0	0.2+
1998 11 11	910	0.5+	0.2−	1998 11 12	910	0.1−	0.1−	2000 03 12	691	0.3+	0.4+
1998 11 11	704	0.7−	0.2−	1998 11 12	910	0.1+	0.1+	2000 03 12	691	0.1+	0.2+
1998 11 11	704	(2.4−	0.5−)	2000 03 09	691	0.0	0.2−				
1998 11 11	704	0.7−	0.8+	2000 03 09	691	0.3−	0.3−				

1998 VV₃ = 2000 EB₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	9.09032		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$ <td></td>				
n	0.17768826	ω	272.50850		−0.78728507		−0.60726627				
a	3.1335038	Ω	230.12298		+0.60644872		−0.73133984				
e	0.1370597	i	8.00095		+0.11136499		−0.31043473				
P	5.55	H	15.0	G	0.15	U	4				
Residuals in seconds of arc											
1998 11 10	910	1.4+	0.5+	1998 11 23	691	0.5−	0.3+	2000 03 08	704	0.8+	0.5+
1998 11 11	910	1.1+	0.2−	1998 11 23	691	0.4−	0.2+	2000 03 08	704	1.0+	0.9+
1998 11 11	910	1.5+	0.1−	1998 12 07	910	0.4+	0.5+	2000 03 08	704	0.5+	0.7−
1998 11 11	910	0.3+	0.1+	1998 12 07	910	0.5+	0.9+	2000 03 08	704	0.5−	1.3+
1998 11 11	910	0.3+	0.1+	1998 12 07	910	0.0	1.2+	2000 03 13	704	0.5+	0.0
1998 11 11	910	0.5+	0.6+	2000 02 07	703	0.2−	0.7−	2000 03 13	704	0.8+	0.7−
1998 11 14	691	1.2−	0.7−	2000 02 07	703	0.6+	0.4−	2000 03 13	704	0.0	0.1−
1998 11 14	691	1.2−	0.6−	2000 02 07	703	0.5−	0.1−	2000 03 27	699	0.5−	0.3+
1998 11 14	691	1.2−	0.6−	2000 02 07	703	0.2−	0.4+	2000 03 27	699	0.6+	1.2−
1998 11 16	691	0.3−	0.8−	2000 02 08	704	0.5−	0.4+	2000 03 27	699	1.6−	0.1+
1998 11 16	691	0.4−	0.6−	2000 02 08	704	0.6+	0.4+	2000 03 27	699	1.1−	0.8−
1998 11 16	691	0.3−	0.7−	2000 02 08	704	0.5−	0.7+				
1998 11 23	691	0.6−	0.2−	2000 02 08	704	0.0	0.8−				

1998 VY₃ = 2000 EB₁₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.84158			(2000.0)			P		Q		
<i>n</i>	0.23078148	ω		239.54907			+0.87458956		+0.48090987		
<i>a</i>	2.6323002	Ω		91.64274			−0.42095932		+0.81636989		
<i>e</i>	0.1794072	<i>i</i>		3.54439			−0.24059584		+0.31979041		
<i>P</i>	4.27	<i>H</i>		14.5		<i>G</i>	0.15		<i>U</i>		5
Residuals in seconds of arc											
1998 11 11	910	0.6+	0.9+	1998 11 20	699	0.5−	1.7+	2000 02 11	704	0.7+	0.2+
1998 11 11	910	0.5+	0.9+	1998 11 20	699	0.1−	0.6+	2000 02 11	704	0.3−	0.1+
1998 11 11	910	0.5+	0.6+	1998 11 24	704	0.0	0.2−	2000 02 11	704	0.2−	0.0
1998 11 13	910	0.7+	0.8+	1998 11 24	704	0.9−	1.3−	2000 02 11	704	0.1−	0.4−
1998 11 13	910	0.8+	0.7+	1998 11 24	704	0.7+	1.0−	2000 03 05	704	0.3−	0.3+
1998 11 13	910	0.8+	0.5+	1998 11 24	704	0.6+	0.9−	2000 03 05	704	0.0	0.4+
1998 11 16	566	1.4−	1.0−	1998 12 08	699	0.7+	1.4−	2000 03 05	704	0.0	1.0+
1998 11 16	566	1.4−	1.1−	1998 12 08	699	0.7−	1.1+	2000 03 05	704	0.1−	0.9+
1998 11 16	566	1.9−	1.1−	1998 12 08	699	0.2−	0.1+	2000 03 05	704	0.6−	0.2+
1998 11 19	910	0.5+	0.0	2000 02 06	703	1.1−	0.2−	2000 03 09	608	1.1+	1.2−
1998 11 19	910	0.3+	0.1+	2000 02 06	703	0.7+	0.0	2000 03 09	608	(1.1+ 2.2−)	
1998 11 19	910	0.5+	0.1+	2000 02 06	703	0.6−	0.6−	2000 03 09	608	0.7+	0.9−
1998 11 20	699	(0.2+ 2.2+)		2000 02 06	703	0.1+	0.5+				

1998 VE₄ = 1989 PD₁ = 2000 EE₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.40772		(2000.0)		P		Q				
<i>n</i>	0.24081518	ω	191.18694		+0.71227170		−0.70086686				
<i>a</i>	2.5586653	Ω	213.41395		+0.64921118		+0.67848353				
<i>e</i>	0.1246276	<i>i</i>	3.97147		+0.26682181		+0.22010395				
<i>P</i>	4.09	<i>H</i>	13.9		<i>G</i>	0.15	<i>U</i>	2			
Residuals in seconds of arc											
1989 08 01	675	0.7−	2.1+	2000 03 09	704	0.1+	0.5+	2000 04 02	699	0.2−	0.2−
1989 08 01	675	0.1−	0.5+	2000 03 09	704	0.4−	0.2+	2000 04 06	704	0.3−	0.2+
1992 04 25	691	0.1+	1.4+	2000 03 09	704	0.3+	0.4−	2000 04 06	704	0.1+	0.1+
1992 04 25	691	0.1−	0.8−	2000 03 09	704	0.1+	0.4−	2000 04 06	704	0.2−	0.1+
1992 04 25	691	0.4+	0.5−	2000 03 09	704	0.4+	0.3−	2000 04 06	704	0.2+	0.1+
1996 04 20	566	0.2−	0.2−	2000 03 10	704	0.4−	0.2−	2000 04 06	704	0.2+	0.2−
1996 04 20	566	0.6−	0.2+	2000 03 10	704	0.1+	1.0+	2000 04 07	699	0.3+	0.1+
1996 04 20	566	0.4+	0.1+	2000 03 10	704	0.6−	0.2−	2000 04 07	699	0.5+	0.1+
1998 11 11	910	0.5+	0.1+	2000 03 10	704	0.2−	0.2−	2000 04 07	699	0.8+	0.1+
1998 11 11	910	0.3+	0.2+	2000 03 10	704	0.6+	0.9+	2000 04 07	704	0.7−	0.3−
1998 11 11	910	0.3+	0.2+	2000 03 11	704	0.0	0.1−	2000 04 07	699	0.5+	0.5+
1998 11 13	910	0.5+	0.0	2000 03 11	704	0.2+	0.2+	2000 04 07	704	0.7−	0.3−
1998 11 13	910	0.7+	0.4−	2000 03 11	704	0.0	0.0	2000 04 07	704	0.6−	0.5−
1998 11 13	910	0.7+	0.1−	2000 03 11	704	0.5+	0.1+	2000 04 07	704	0.3−	0.0
1998 11 20	910	0.3+	0.2+	2000 03 27	699	0.3+	0.1−	2000 04 07	704	0.2+	0.7−
1998 11 20	910	0.1+	0.3+	2000 03 27	699	0.3−	0.1+	2000 04 08	704	0.4+	0.0
1998 11 20	910	0.2+	0.3+	2000 03 27	699	0.4−	0.0	2000 04 08	704	0.8+	0.8+
1998 12 22	704	1.4−	1.1+	2000 03 27	699	0.1−	0.1+	2000 04 08	704	0.6+	0.4−
1998 12 22	704	1.1−	0.1−	2000 04 02	699	0.1−	0.5+	2000 04 08	704	0.1−	0.9+
1998 12 22	704	1.0−	0.6−	2000 04 02	699	0.1−	0.0	2000 04 08	704	0.4−	0.2+
1998 12 22	704	0.5−	1.1+	2000 04 02	699	0.0	0.1+				

1998 VQ₄ = 2000 EE₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams		

2000 APR. 18

M.P.C. 40033

1998 11 11	910	0.6+	0.1-	2000 02 16	703	0.5-	0.8-	2000 03 11	699	0.4-	0.1+
1998 11 11	910	0.4+	0.1-	2000 02 16	703	(4.5-	0.5-)	2000 03 12	704	0.3+	0.1+
1998 11 11	910	0.5+	0.1+	2000 02 16	703	0.6+	0.7-	2000 03 12	704	0.4-	0.0
1998 11 11	910	0.4+	0.3+	2000 02 16	703	0.1+	0.2+	2000 03 12	704	0.1-	0.6+
1998 11 12	910	0.8+	0.6-	2000 03 02	703	0.4-	0.4+	2000 03 12	704	0.2-	1.8+
1998 11 12	910	1.3+	0.3-	2000 03 02	703	0.5-	0.1+	2000 03 12	704	0.2+	1.0+
1998 11 12	910	0.5+	1.6+	2000 03 02	703	0.2+	0.0	2000 03 28	704	0.6+	0.1+
1998 11 17	910	0.2+	0.1-	2000 03 02	703	0.5-	0.3+	2000 03 28	704	0.3+	0.1-
1998 11 17	910	0.3-	0.3+	2000 03 11	699	0.0	0.4-	2000 03 28	704	0.6-	0.5-
1998 11 18	910	0.1-	0.1+	2000 03 11	704	0.1+	0.1-	2000 04 03	704	0.3+	0.0
1998 11 19	910	0.2-	0.1-	2000 03 11	704	0.2+	0.2-	2000 04 03	704	0.4+	0.2-
1998 11 19	910	0.2-	0.2-	2000 03 11	699	0.6-	0.2-	2000 04 03	704	0.5+	0.1-
1998 11 19	910	0.3-	0.3+	2000 03 11	704	0.1+	0.5-	2000 04 03	704	0.3+	0.2-
1998 11 26	691	1.5-	0.2-	2000 03 11	704	0.1+	0.2-	2000 04 03	704	0.1+	0.4-

1998 VS₄ = 2000 EM₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30747283	ω	173.30077	+0.80525859	+0.59093794		
<i>a</i>	2.1740268	Ω	150.30766	-0.54843825	+0.77342493		
<i>e</i>	0.1787111	<i>i</i>	5.61739	-0.22533105	+0.22936049		
<i>P</i>	3.21	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 11	704	0.0	1.0-	1999 02 07	651	0.0	0.9-	2000 03 04	704	0.1+	0.5+
1998 11 11	704	0.2-	0.6+	2000 02 29	704	0.6+	0.7-	2000 03 04	704	0.3+	0.3+
1998 11 11	704	1.2-	1.2-	2000 02 29	704	0.3-	0.7-	2000 03 04	704	0.9-	0.8+
1998 11 13	704	0.2-	0.8+	2000 02 29	704	(2.9-	3.9-)	2000 03 04	704	0.8-	1.4+
1998 11 13	704	0.3+	1.2-	2000 03 03	704	0.1+	0.2-	2000 03 04	704	0.6-	0.3-
1998 11 13	704	1.7+	0.5-	2000 03 03	704	0.4+	0.1-	2000 03 11	699	0.2-	0.4-
1998 11 14	699	0.1+	0.6+	2000 03 03	704	0.5+	0.4-	2000 03 11	699	0.8-	0.4+
1998 11 14	699	0.8-	0.8+	2000 03 03	704	0.5+	0.7-	2000 03 11	699	0.3-	0.9-
1998 11 14	699	0.1+	1.4+	2000 03 03	704	0.2+	0.0	2000 03 11	699	0.2+	0.3-
1999 02 07	651	0.2-	0.1-	2000 03 04	704	0.8+	1.0+				
1999 02 07	651	0.4+	0.6+	2000 03 04	704	0.4+	0.2+				

1998 VC₅ = 1990 QR₁₆ = 2000 GZ₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26643138	ω	23.59119	-0.79640698	-0.60449671		
<i>a</i>	2.3919153	Ω	119.20410	+0.55154579	-0.73813674		
<i>e</i>	0.0645536	<i>i</i>	1.17363	+0.24805877	-0.29956282		
<i>P</i>	3.70	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1990 08 26	809	1.4+	1.1-	1998 11 18	704	0.3+	1.1-	1998 12 14	120	0.4+	0.1-
1990 08 26	809	0.5-	1.5-	1998 11 18	704	0.2+	0.1-	1998 12 14	120	0.0	0.3-
1990 08 26	809	(6.0-	1.6-)	1998 11 18	704	0.3-	0.7-	1998 12 15	910	0.7+	0.5+
1994 10 09	691	0.1-	0.7+	1998 11 18	704	0.2+	0.3-	1998 12 15	910	0.7+	0.3+
1994 10 09	691	0.2-	0.5+	1998 11 21	704	1.8+	1.5-	1998 12 15	910	0.7+	0.3+
1994 10 09	691	0.0	0.4+	1998 11 21	704	(2.2+	0.8-)	1999 02 12	691	0.4+	0.0
1996 01 26	691	0.2-	0.1-	1998 11 21	704	1.9+	1.0-	1999 02 12	691	0.1-	0.3-
1996 01 26	691	0.0	0.1-	1998 11 23	691	0.8-	0.1+	1999 02 12	691	0.2+	0.4-
1996 01 26	691	0.2-	0.2-	1998 11 23	691	0.8-	0.1+	2000 04 05	704	0.1+	0.2+
1996 03 26	566	0.2+	0.3+	1998 11 23	691	0.8-	0.1+	2000 04 05	704	0.1-	0.0
1996 03 26	566	0.2-	0.2-	1998 11 24	704	0.3+	0.3-	2000 04 05	704	0.1+	0.4-
1996 03 26	566	0.2+	0.2-	1998 11 24	704	0.7+	0.4+	2000 04 05	704	0.1-	1.0-
1998 11 11	704	0.0	0.1-	1998 11 24	704	0.6+	0.6+	2000 04 06	704	0.2+	0.3+
1998 11 11	704	0.0	0.1+	1998 11 24	704	0.4+	0.4+	2000 04 06	704	0.3+	0.3+
1998 11 11	704	0.4-	0.3-	1998 11 24	704	0.5-	1.3+	2000 04 06	704	0.9+	0.4-
1998 11 11	704	0.8-	0.5-	1998 11 28	120	0.4+	0.6+	2000 04 06	704	0.9-	1.3-
1998 11 11	120	1.5-	0.1-	1998 11 28	120	0.1-	1.0+	2000 04 06	704	0.1-	0.5-
1998 11 11	120	0.0	0.5-	1998 11 29	120	0.3-	0.1+	2000 04 07	704	0.8+	0.3+
1998 11 11	120	0.6-	0.1-	1998 11 29	120	0.2+	0.9-	2000 04 07	704	1.9-	0.2+
1998 11 11	120	0.5-	0.6-	1998 12 13	691	0.9-	0.0	2000 04 07	704	0.2+	0.3-

1998 11 12	120	0.0	0.2+	1998 12 13	691	0.6-	0.1-	2000 04 07	704	0.1+	0.6+
1998 11 12	120	0.6-	0.6+	1998 12 13	691	0.8-	0.0				
1998 11 18	704	0.2-	0.4-	1998 12 14	120	0.8+	0.9+				

1998 VF₅ = 2000 FX₂₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25967489	ω	334.88804	+0.90895500	-0.39551152		
<i>a</i>	2.4332276	Ω	49.06592	+0.40586395	+0.76727537		
<i>e</i>	0.2454594	<i>i</i>	10.04743	+0.09526417	+0.50483576		
<i>P</i>	3.80	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 31	704	1.2+	0.4+	1998 11 18	704	0.3-	0.5-	1998 12 14	704	0.2+	1.4+
1998 08 31	704	0.2-	1.1+	1998 11 18	704	0.1-	1.2-	1998 12 14	704	0.2+	1.2+
1998 08 31	704	1.2-	1.0+	1998 11 18	704	(2.2+	2.0-)	2000 03 12	704	0.5+	0.2-
1998 08 31	704	0.7-	0.3+	1998 11 18	704	1.1-	1.7-	2000 03 12	704	0.4+	0.7+
1998 10 23	910	1.3+	0.9-	1998 11 21	704	0.3-	1.0-	2000 03 12	704	0.5+	0.4-
1998 10 23	910	1.1+	0.9-	1998 11 21	704	0.0	0.7-	2000 03 12	704	0.0	0.0
1998 10 23	910	1.2+	1.1-	1998 11 21	704	0.4+	0.1+	2000 03 29	704	0.8+	0.1-
1998 11 10	704	0.3-	1.0+	1998 11 24	704	0.2-	1.0-	2000 03 29	704	0.9+	0.3-
1998 11 10	704	0.4-	0.6+	1998 11 24	704	0.9+	1.6-	2000 03 29	704	0.5-	0.5+
1998 11 10	704	0.4+	0.5+	1998 11 24	704	(2.2+	1.8-)	2000 03 29	704	0.3-	0.3+
1998 11 10	704	1.0+	1.4-	1998 11 24	704	0.1-	1.9-	2000 04 03	704	0.6+	0.7-
1998 11 10	704	1.4-	1.1+	1998 11 24	704	(1.8+	2.1-)	2000 04 03	704	0.6-	0.7-
1998 11 11	704	0.2-	0.7+	1998 11 25	699	0.1+	0.2-	2000 04 03	704	1.0-	0.6-
1998 11 11	704	0.4-	0.7+	1998 11 25	699	0.1-	0.0	2000 04 05	688	0.2-	0.0
1998 11 11	704	0.3+	0.2-	1998 11 25	699	0.0	0.1-	2000 04 05	688	0.1-	0.0
1998 11 11	704	0.1+	0.2+	1998 12 11	699	0.4-	0.1-	2000 04 07	699	0.7-	0.7+
1998 11 11	120	1.4-	0.7+	1998 12 11	699	0.1-	0.1+	2000 04 07	699	0.6-	0.1+
1998 11 11	120	0.4-	0.8+	1998 12 11	699	0.5+	0.2-	2000 04 07	699	0.1+	0.2+
1998 11 12	120	0.8-	0.7+	1998 12 14	704	0.3-	0.9+	2000 04 07	699	0.1+	0.5+
1998 11 12	120	0.3+	0.3+	1998 12 14	704	0.4+	1.1+				
1998 11 18	704	0.1-	0.0	1998 12 14	704	0.9+	1.6+				

1998 VP₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26427091	ω	118.81950	-0.66028833	-0.75062575		
<i>a</i>	2.4049339	Ω	12.59167	+0.64477961	-0.58304375		
<i>e</i>	0.1054812	<i>i</i>	6.34427	+0.38506957	-0.31083915		
<i>P</i>	3.73	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 03 17	566	0.2-	0.2-	1998 11 13	888	0.5+	0.5-	2000 03 30	888	0.4-	0.7+
1996 03 17	566	0.3+	0.1+	1998 11 19	888	0.4-	0.4+	2000 04 06	704	1.2+	0.1+
1996 03 17	566	0.2-	0.2-	1998 11 24	888	0.3-	0.3+	2000 04 06	704	1.2-	0.8-
1998 11 09	888	0.4-	0.1-	1998 11 24	888	0.2+	0.6+	2000 04 06	704	0.4-	0.3-
1998 11 09	888	0.4-	0.3+	1998 12 09	888	1.0-	0.5-	2000 04 08	704	0.7-	0.8+
1998 11 10	704	0.5+	0.1-	1998 12 16	888	0.0	0.6+	2000 04 08	704	0.1+	0.8-
1998 11 10	704	0.1+	1.4-	1998 12 16	888	0.2+	0.3-	2000 04 08	704	0.1+	0.8-
1998 11 10	704	(0.1-	2.6-)	1999 01 10	888	0.3+	0.2+	2000 04 08	704	1.3+	0.7-
1998 11 10	704	(2.7-	1.6-)	1999 01 10	888	0.3-	1.2+	2000 04 08	704	0.5-	0.8-
1998 11 10	888	0.2+	0.2+	2000 03 29	888	0.7-	0.7+	2000 04 11	888	1.6+	0.5+
1998 11 10	888	0.3+	0.1-	2000 03 29	888	0.1-	0.1+	2000 04 11	888	0.5+	0.2+
1998 11 11	704	(2.1+	2.1-)	2000 03 29	888	0.7-	0.3+				
1998 11 11	704	0.6+	1.0-	2000 03 30	888	0.4-	0.4+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	106.91157		(2000.0)	P	Q
<i>n</i>	0.24383312	ω	49.57464	+0.42047023	-0.90686383
<i>a</i>	2.5375089	Ω	15.63287	+0.79735347	+0.35443406
<i>e</i>	0.2040165	<i>i</i>	6.03543	+0.43293444	+0.22797913
<i>P</i>	4.04	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1986 12 01	010	(30.7-	8.0-)	1998 11 19	888	0.2-	0.1-	1999 01 18	888	1.0+	0.5+
1998 11 09	888	0.0	0.3-	1998 11 20	886	0.5+	1.4-	1999 01 18	888	0.3+	0.0
1998 11 09	888	0.2+	0.3-	1998 11 20	886	0.6+	1.1+	2000 04 05	704	0.3+	0.6-
1998 11 11	704	0.3+	0.3-	1998 11 24	888	0.5-	0.2+	2000 04 05	704	0.1-	0.1-
1998 11 11	704	0.4-	0.7-	1998 11 24	888	0.2-	0.1-	2000 04 05	704	0.3-	0.0
1998 11 11	704	1.8+	1.2-	1998 12 11	888	0.4-	0.1-	2000 04 05	704	0.0	0.2+
1998 11 11	888	0.2+	0.2-	1998 12 11	888	0.3-	0.1+	2000 04 05	704	0.4-	0.5+
1998 11 11	888	0.1+	0.3-	1999 01 07	888	0.3-	0.2+	2000 04 06	704	0.4+	0.5-
1998 11 13	888	0.3-	0.5+	1999 01 07	888	0.7-	0.0	2000 04 06	704	0.5+	0.6-
1998 11 13	888	0.2+	0.3+	1999 01 15	699	1.5-	0.6+	2000 04 06	704	1.5-	0.7-
1998 11 19	888	0.2-	0.2-	1999 01 15	699	0.0	0.7+	2000 04 06	704	0.1+	0.1-
1998 11 19	888	0.5-	0.1+	1999 01 15	699	0.5+	0.2+	2000 04 06	704	0.3+	0.3+

1998 VY₅ = 2000 GM₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.43627		(2000.0)	P	Q
<i>n</i>	0.26099791	ω	293.13582	+0.73679434	-0.63587810
<i>a</i>	2.4249979	Ω	107.17211	+0.67417158	+0.66518981
<i>e</i>	0.1941413	<i>i</i>	13.91535	+0.05125225	+0.39138416
<i>P</i>	3.78	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 11 13	721	0.3-	0.3+	1998 12 15	704	(3.2-	3.0-)	2000 04 03	704	0.0	0.3-
1998 11 13	721	0.3-	0.3+	1998 12 22	704	0.2-	0.5-	2000 04 03	704	0.0	0.0
1998 11 13	721	0.5-	0.4+	1998 12 22	704	(0.2+	2.2+)	2000 04 03	704	0.0	0.1+
1998 11 14	721	0.3+	0.4+	1998 12 22	704	0.3-	0.2+	2000 04 08	704	0.1+	0.3+
1998 11 14	721	0.8+	0.3-	1998 12 22	704	0.1-	0.9+	2000 04 08	704	0.3-	0.2+
1998 11 14	721	0.4+	0.5+	1998 12 22	704	0.9-	0.9+	2000 04 08	704	1.0-	0.3+
1998 12 11	721	0.3-	0.3-	2000 02 06	704	0.7+	0.3+	2000 04 14	704	0.4-	0.2-
1998 12 11	721	0.2-	0.3-	2000 02 06	704	0.2-	0.2+	2000 04 14	704	0.3-	0.0
1998 12 15	704	0.4+	0.3-	2000 02 06	704	0.4+	0.8-	2000 04 14	704	0.2+	0.5+
1998 12 15	704	1.0+	0.8-	2000 02 06	704	0.3+	0.2-	2000 04 14	704	0.4+	0.1+
1998 12 15	704	0.1-	0.6+	2000 02 06	704	0.8+	0.6+	2000 04 14	704	0.1+	0.4-
1998 12 15	704	0.3+	1.5-	2000 04 03	704	0.1-	0.4-				

1998 VG₆ = 2000 GB₁₆

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	135.17739		(2000.0)	P	Q
<i>n</i>	0.26682983	ω	24.38974	+0.83746771	-0.54619546
<i>a</i>	2.3895335	Ω	8.78185	+0.48023635	+0.71996745
<i>e</i>	0.2315632	<i>i</i>	6.71140	+0.26080814	+0.42815581
<i>P</i>	3.69	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 08 31	704	0.1-	1.5+	1998 11 16	704	0.4+	0.4-	1999 02 06	385	1.3+	0.4+
1998 08 31	704	1.1+	0.5+	1998 11 16	704	0.4+	0.3+	1999 02 06	385	0.3+	0.6+
1998 08 31	704	0.2+	0.9-	1998 11 16	704	0.5+	0.4+	2000 03 10	704	1.3+	0.1-
1998 08 31	704	(0.4-	2.3+)	1998 11 16	704	0.9-	0.6-	2000 03 10	704	0.8-	0.4-
1998 08 31	704	0.4+	1.1+	1998 11 16	566	0.0	0.2-	2000 03 10	704	0.5-	0.4+
1998 10 19	699	0.4-	0.4+	1998 11 16	566	0.3-	0.0	2000 03 10	704	0.9-	1.3-
1998 10 19	699	0.0	0.5+	1998 11 16	566	0.2+	0.3-	2000 03 27	699	0.5+	0.2+
1998 10 19	699	0.3+	0.4+	1998 11 18	905	(0.6+	2.4+)	2000 03 27	699	1.6-	1.0+
1998 11 11	905	0.7-	0.6+	1998 11 18	905	0.3-	1.5+	2000 03 27	699	0.5-	1.3-
1998 11 11	905	0.2-	0.1+	1998 12 13	385	0.4+	0.4+	2000 03 27	699	0.7+	0.7+
1998 11 12	905	0.2+	0.3+	1998 12 13	385	0.2+	0.6-	2000 04 05	704	0.5+	0.1+
1998 11 12	905	1.1-	1.2+	1999 01 08	704	0.5-	1.7-	2000 04 05	704	0.4+	0.1+

1998 11 14	704	0.8-	0.3-	1999 01 08	704	0.8+	1.4+	2000 04 05	704	0.1+	0.4+
1998 11 14	704	0.0	0.3-	1999 01 08	704	0.2-	0.5-	2000 04 05	704	0.1+	0.3+
1998 11 14	704	(3.1-	1.3+)	1999 01 08	704	(2.4-	1.4-)	2000 04 05	704	0.3+	0.8+
1998 11 14	704	0.3-	0.7-	1999 01 09	888	0.1+	0.3-	2000 04 06	704	1.1+	0.8+
1998 11 14	704	0.5+	0.5-	1999 01 09	888	0.0	0.0	2000 04 06	704	0.5+	0.4+
1998 11 15	886	0.7-	0.1+	1999 01 15	699	0.7+	0.4-	2000 04 06	704	0.1+	0.4+
1998 11 15	886	0.7-	0.3+	1999 01 15	699	0.2-	0.6-	2000 04 06	704	0.4+	0.5+
1998 11 16	704	0.1+	0.9-	1999 01 15	699	0.4+	0.2-	2000 04 06	704	0.2+	0.2+

1998 VH₆ = 2000 GJ₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.72987		(2000.0)	P	Q
<i>n</i>	0.28220653	ω	68.38213	-0.04955337	-0.99640783
<i>a</i>	2.3019259	Ω	24.76057	+0.84498666	-0.07848135
<i>e</i>	0.0989816	<i>i</i>	9.43702	+0.53248662	+0.03181363
<i>P</i>	3.49	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1991 11 28	691	0.2+	0.0	1998 11 15	699	1.0+	0.6+	1999 01 11	888	0.6-	0.8+
1991 11 28	691	0.0	0.3-	1998 11 15	699	0.5+	0.7+	2000 04 05	704	0.8+	0.6+
1991 11 28	691	0.0	0.0	1998 11 15	699	0.7+	0.6+	2000 04 05	704	0.3+	0.3-
1998 11 10	704	0.2+	0.3+	1998 11 15	888	0.1-	0.0	2000 04 05	704	0.0	0.9-
1998 11 10	704	0.3+	0.2+	1998 11 15	888	0.3+	0.3+	2000 04 05	704	0.4-	0.5-
1998 11 10	704	0.2+	0.0	1998 11 15	888	0.0	0.3+	2000 04 06	704	1.0-	0.0
1998 11 10	704	0.9+	0.3-	1998 11 16	566	0.1-	0.3+	2000 04 06	704	0.7-	0.7-
1998 11 10	704	0.5-	1.5-	1998 11 16	566	0.2-	0.5+	2000 04 06	704	1.5-	0.6-
1998 11 11	704	0.1+	0.3-	1998 11 16	566	0.2-	0.8+	2000 04 07	704	0.4-	0.0
1998 11 11	704	0.5-	0.8-	1998 11 18	905	0.7+	1.1+	2000 04 07	704	0.5-	0.3-
1998 11 11	704	0.5-	0.7-	1998 11 18	905	0.5-	0.1+	2000 04 07	704	0.4-	0.3+
1998 11 11	704	0.1-	0.4-	1998 12 11	385	0.1+	0.2-	2000 04 07	704	0.3-	0.1-
1998 11 11	704	0.7+	0.8+	1998 12 11	385	0.1-	0.5-	2000 04 08	704	0.1+	0.2+
1998 11 11	905	0.0	0.3+	1998 12 16	699	0.1+	0.6-	2000 04 08	704	1.4+	0.2-
1998 11 11	905	0.0	1.5-	1998 12 16	699	1.3-	0.1-	2000 04 08	704	1.5+	0.0
1998 11 12	905	1.8-	1.3-	1998 12 16	699	0.2+	0.1-	2000 04 08	704	0.7+	1.5+
1998 11 12	905	(0.2-	2.2-)	1999 01 11	888	0.3+	0.5+				

1998 VN₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.82263		(2000.0)	P	Q
<i>n</i>	0.23181190	ω	55.52615	+0.09221206	-0.99087719
<i>a</i>	2.6244939	Ω	29.65056	+0.83598399	+0.02341802
<i>e</i>	0.2589726	<i>i</i>	11.45897	+0.54095074	+0.13271771
<i>P</i>	4.25	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 19	910	0.6+	0.5-	1998 11 11	704	0.7-	0.1+	1998 11 16	704	0.1+	0.4-
1998 09 19	910	0.8+	0.3-	1998 11 11	704	0.0	0.5+	1998 11 16	704	0.2-	0.7-
1998 09 19	910	0.5+	0.6-	1998 11 11	704	(0.9-	3.1+)	1998 11 19	905	1.6+	1.4+
1998 10 03	327	0.6-	0.3-	1998 11 11	704	1.9-	0.5+	1998 11 19	905	0.5+	0.1-
1998 10 03	327	0.7-	0.2+	1998 11 11	905	1.0-	0.9+	1998 11 19	886	0.6+	0.5-
1998 10 03	327	1.3-	0.2-	1998 11 11	905	1.0+	0.5-	1998 11 19	886	0.0	0.1-
1998 10 19	699	0.8-	0.7+	1998 11 14	385	0.1-	0.0	1998 12 11	888	1.0+	1.2-
1998 10 19	699	1.1+	0.3+	1998 11 14	385	0.5-	0.2-	1998 12 11	888	0.7+	0.5-
1998 10 19	699	0.1+	0.9+	1998 11 15	886	1.1+	1.2+	2000 04 10	684	(3.5+	0.1-)
1998 11 10	704	0.4-	0.7+	1998 11 15	886	0.3-	0.1-	2000 04 10	684	0.0	0.1-
1998 11 10	704	0.4-	0.7-	1998 11 16	704	(1.7-	2.7+)	2000 04 10	684	0.6+	0.4-
1998 11 10	704	0.8+	0.1-	1998 11 16	704	1.0-	0.1-	2000 04 11	684	1.2-	0.7+
1998 11 10	704	0.8+	0.1-	1998 11 16	704	1.2-	0.2+	2000 04 11	684	1.2+	0.7+

2000 APR. 18

M.P.C. 40035

1998 VR₆ = 2000 EG₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	249.52952		(2000.0)	P		Q	
<i>n</i>	0.28732215	ω	89.49535	+0.50821729	+0.85964487		
<i>a</i>	2.2745211	Ω	211.22532	−0.82480080	+0.46838075		
<i>e</i>	0.1150099	<i>i</i>	5.78022	−0.24782823	+0.20403474		
<i>P</i>	3.43	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 11 12	411	0.8−	0.1−	1998 12 21	411	1.6−	0.9+
1998 11 12	411	1.0+	0.4−	1999 01 07	699	0.5+	0.6−
1998 11 14	411	0.4+	0.4+	1999 01 07	699	0.4+	0.1+
1998 11 14	411	0.5+	0.2−	1999 01 07	699	1.1+	1.1+
1998 11 20	411	0.3+	0.4−	2000 03 03	703	0.4−	0.5−
1998 11 20	411	1.5+	0.6−	2000 03 03	703	0.2−	0.2+
1998 12 12	411	0.4−	0.6−	2000 03 03	703	0.3−	0.2+
1998 12 12	411	0.5+	0.7−	2000 03 03	703	0.6−	0.1+
1998 12 15	704	1.0−	0.4+	2000 03 09	704	0.1−	0.1−
1998 12 15	704	0.4−	1.2−	2000 03 09	704	0.4−	0.1−
1998 12 15	704	0.7−	1.5+	2000 03 09	704	0.6−	0.2+
1998 12 15	704	1.3−	0.0	2000 03 26	699	0.6+	0.1−
1998 12 15	704	(4.6−	1.8+)	2000 03 26	699	0.2+	0.1−
1998 12 21	411	0.1+	0.5+	2000 03 26	699	0.2−	0.4+

1998 VZ₆ = 2000 FU₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	139.83361		(2000.0)	P		Q	
<i>n</i>	0.26652801	ω	212.46039	+0.81890221	−0.57393031		
<i>a</i>	2.3913372	Ω	182.56645	+0.53468356	+0.76402177		
<i>e</i>	0.1898527	<i>i</i>	2.27453	+0.20859687	+0.29474520		
<i>P</i>	3.70	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1998 11 12	557	0.0	0.3+	1998 11 23	699	0.2−	0.1+
1998 11 12	557	0.1+	0.2−	1998 11 23	699	0.1−	0.4+
1998 11 12	557	0.3+	0.1−	1998 11 23	699	0.2−	0.7−
1998 11 14	557	0.2−	0.0	1998 11 23	557	1.1−	0.0
1998 11 14	557	0.0	0.3+	1998 11 23	557	0.4−	0.4+
1998 11 14	557	0.3−	0.4+	1998 11 24	704	0.2+	0.6−
1998 11 18	704	1.4−	0.6−	1998 11 24	704	0.0	0.6+
1998 11 18	704	1.3+	1.2+	1998 11 24	704	0.3+	0.1+
1998 11 18	704	0.1+	0.0	1998 11 24	704	(2.2−	0.8+)
1998 11 18	704	0.4+	1.0−	1998 11 24	704	(5.4−	3.3+)
1998 11 21	557	0.4−	0.1+	1998 12 11	557	0.1−	0.1−
1998 11 21	557	0.1+	0.6+	1998 12 11	557	0.9−	0.1−
1998 11 21	704	0.5−	0.3−	1998 12 12	691	0.2+	0.3−
1998 11 21	704	0.9+	0.1+	1998 12 12	691	0.4+	0.2−
1998 11 21	704	0.1+	0.0	1998 12 12	691	0.4+	0.1+
1998 11 21	704	1.0+	1.5−	1998 12 17	557	0.0	0.2+

1998 VG₇ = 2000 GB₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.75917		(2000.0)	P		Q	
<i>n</i>	0.24171086	ω	61.83291	+0.82929231	−0.55810362		
<i>a</i>	2.5523405	Ω	332.06417	+0.48928756	+0.74955593		
<i>e</i>	0.2776964	<i>i</i>	3.44962	+0.26994805	+0.35593015		
<i>P</i>	4.08	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1992 03 25	691	0.4+	0.0	1998 11 11	704	1.1+	0.8+
1992 03 25	691	0.4+	0.1−	1998 11 11	704	0.1−	0.4+
1996 03 20	691	0.7−	0.1+	1998 11 11	704	0.3−	1.2+
1996 03 20	691	0.3−	0.5+	1998 11 11	704	0.3−	0.4+
1996 03 20	691	0.3−	0.3+	1998 11 11	704	1.8−	0.5+
1998 10 12	699	0.4+	1.0−	1998 12 09	704	1.7−	0.1−

1998 10 12	699	0.2+	0.7−	1998 12 09	704	0.4−	0.8−	2000 03 11	704	0.1−	0.1+
1998 10 12	699	0.4+	0.9−	1998 12 09	704	0.1−	1.9−	2000 03 11	704	0.2+	1.3+
1998 10 28	704	0.6−	0.3−	1998 12 09	704	1.5+	1.8−	2000 04 03	691	0.5−	0.1+
1998 10 28	704	0.1−	0.3+	1998 12 09	704	1.0+	0.4−	2000 04 03	691	0.6−	0.2+
1998 10 28	704	0.6−	0.7+	1999 01 05	699	1.0−	0.2+	2000 04 03	691	0.3−	0.2+
1998 10 28	704	0.9−	0.3−	1999 01 05	699	0.9−	0.6−	2000 04 05	704	1.7+	1.1+
1998 10 28	704	0.6−	1.5+	1999 01 05	699	0.4−	0.6−	2000 04 05	704	0.2+	1.1+
1998 10 29	704	0.2−	0.6−	1999 01 08	704	0.8−	1.1−	2000 04 05	704	0.4+	0.1+
1998 10 29	704	0.9+	0.3+	1999 01 08	704	0.3+	0.7−	2000 04 07	691	0.6−	1.0−
1998 10 29	704	0.2−	0.1+	1999 01 08	704	0.6−	0.3−	2000 04 07	691	0.5−	1.1−
1998 10 29	704	0.2+	0.4+	1999 01 08	704	0.2+	0.6−	2000 04 07	691	0.5−	1.3−
1998 10 29	704	0.2−	1.0+	1999 01 08	704	1.8+	0.6+	2000 04 07	704	0.0	1.1+
1998 11 10	704	0.9+	0.2−	1999 01 18	704	0.7+	1.4+	2000 04 07	704	1.5+	0.5−
1998 11 10	704	1.5+	1.3+	1999 01 18	704	0.2−	0.8−	2000 04 07	704	0.0	0.4−
1998 11 10	704	(0.3−	2.0+)	1999 01 18	704	0.7−	1.2+	2000 04 07	704	0.3−	0.4+
1998 11 10	704	(2.3−	0.3+)	1999 01 18	704	1.2+	1.1+				

1998 VV₇ = 2000 EM₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	29.80891		(2000.0)	P		Q	
<i>n</i>	0.29179489	ω	179.48101	−0.84741872	−0.52925544		
<i>a</i>	2.2512182	Ω	328.44935	+0.48682413	−0.74296269		
<i>e</i>	0.0429741	<i>i</i>	4.61202	+0.21185794	−0.40975006		
<i>P</i>	3.38	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1991 09 15	691	0.3−	0.1+	1998 11 10	704	0.8+	0.8+
1991 09 15	691	0.1−	0.2+	1998 11 10	704	1.0−	0.2−
1991 09 15	691	0.2+	0.1+	1998 11 10	704	1.1+	0.8−
1998 10 11	699	0.6+	0.0	1998 11 11	704	0.3−	0.7−
1998 10 11	699	0.5+	0.5+	1998 11 11	704	0.8+	2.0+
1998 10 11	699	0.5+	0.4+	1998 11 11	704	0.8−	0.0
1998 10 28	704	0.4−	0.1−	1998 11 11	704	1.0−	0.5+
1998 10 28	704	0.6−	0.3+	1998 11 11	704	1.8−	0.5+
1998 10 28	704	0.4−	0.6−	2000 03 03	703	0.1+	0.2+
1998 10 28	704	1.2+	0.6−	2000 03 03	703	0.1+	0.0
1998 10 29	704	0.5−	1.0−	2000 03 03	703	1.2−	0.3−
1998 10 29	704	1.1+	0.5+	2000 03 03	703	0.2−	0.1+
1998 10 29	704	0.2−	0.1−	2000 03 09	704	0.2+	0.1+
1998 10 29	704	0.5+	1.0−	2000 03 09	704	0.2+	0.6+
1998 11 10	704	0.3−	0.3−	2000 03 09	704	0.3+	0.9−

1998 VH₉ = 2000 GB₁₀₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	110.12894		(2000.0)	P		Q	
<i>n</i>	0.29884088	ω	8.63421	+0.28748377	−0.94945624		
<i>a</i>	2.2156919	Ω	64.73767	+0.87021875	+0.20395844		
<i>e</i>	0.1078209	<i>i</i>	8.01128	+0.4009050	+0.23860804		
<i>P</i>	3.30	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 10 20	699	0.5−	0.7+	1998 11 11	704	0.7−	0.5+
1998 10 20	699	0.4−	0.8+	1998 11 11	704	0.8−	0.4+
1998 10 20	699	0.2−	0.6+	1998 11 16	566	0.2−	0.0
1998 10 28	704	0.8−	0.1+	1998 11 16	566	0.3−	0.1+
1998 10 28	704	1.0−	0.0	1998 11 16	566	0.1−	0.3−
1998 10 28	704	1.5+	1.5−	1998 12 17	327	0.7+	0.5+
1998 10 28	704	1.5−	0.7−	1998 12 17	327	0.7+	0.6+
1998 10 29	704	0.1−	0.4−	1998 12 17	327	0.9+	0.2−
1998 10 29	704	0.5+	0.6−	1998 12 23	327	0.3+	0.4+
1998 10 29	704	0.9−	0.3−	1998 12 23	327	0.5+	0.2+
1998 10 29	704	0.0	0.1−	1998 12 23	327	0.3+	0.5+
1998 11 10	704	0.6+	0.1+	1999 01 13	691	1.2−	0.3−
1998 11 10	704	0.9+	1.4−	1999 01 13	691	0.3−	0.4−
1998 11 10	704	0.1+	0.3−	1999 01 13	691	0.1−	0.4−

1998 11 10	704	0.3+	0.0	2000 04 07	704	0.4+	0.1-	2000 04 13	704	0.2+	0.1+
1998 11 10	704	0.6+	0.2+	2000 04 07	704	1.2-	1.1+	2000 04 13	704	0.0	0.1+
1998 11 11	704	0.4+	0.4+	2000 04 07	699	0.8+	0.1+	2000 04 13	704	0.4+	0.6+
1998 11 11	704	0.9+	1.4+	2000 04 07	704	1.1-	0.3-	2000 04 13	704	0.3+	0.6-
1998 11 11	704	0.1+	0.3+	2000 04 07	699	0.3+	0.3+				

1998 VT₉ = 2000 EP₁₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	47.08590	(2000.0)		P	Q		
<i>n</i>	0.26531144	ω	88.04534	-0.60261401	-0.79740407		
<i>a</i>	2.3986418	Ω	39.06917	+0.71075192	-0.55433020		
<i>e</i>	0.1103521	<i>i</i>	2.88044	+0.36288849	-0.23846336		
<i>P</i>	3.71	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	0.3-	0.0	2000 03 04	703	0.1+	0.1-	2000 04 06	704	0.6-	0.2-
1998 10 14	699	0.5+	0.5-	2000 03 04	703	1.3+	1.7+	2000 04 06	699	0.0	0.3-
1998 10 14	699	0.6+	0.7-	2000 03 04	703	0.3+	0.6-	2000 04 06	704	0.2-	0.1+
1998 10 28	704	1.4-	1.5+	2000 03 09	704	1.4-	1.1+	2000 04 06	699	0.1+	0.4+
1998 10 28	704	0.8+	0.9+	2000 03 09	704	0.1-	0.5-	2000 04 06	704	0.5-	0.2+
1998 10 28	704	0.2+	0.5-	2000 03 09	704	0.6+	0.6+	2000 04 06	704	0.1-	0.6-
1998 10 28	704	0.9-	0.3+	2000 03 09	704	0.2-	0.2+	2000 04 06	699	0.9+	0.7+
1998 10 29	704	0.9+	0.4-	2000 03 27	699	0.4-	0.1-	2000 04 06	704	0.3-	0.1+
1998 10 29	704	(2.7+	2.4-)	2000 03 27	699	0.2-	0.0	2000 04 07	704	0.1+	0.3-
1998 10 29	704	0.4+	0.6-	2000 03 27	699	0.3-	0.0	2000 04 07	704	0.3+	0.3-
1998 10 29	704	0.3+	1.0-	2000 03 27	699	1.0-	0.3-	2000 04 07	704	0.4+	0.4-
1998 10 29	704	0.8+	0.3+	2000 04 02	699	0.1-	0.0	2000 04 07	704	0.0	0.1+
1998 11 10	704	1.6+	1.3-	2000 04 02	699	0.3-	0.2+	2000 04 07	704	0.2-	0.1-
1998 11 10	704	1.1-	0.5+	2000 04 02	699	0.2-	0.0	2000 04 10	704	0.1+	0.5+
1998 11 10	704	0.5+	0.6-	2000 04 02	699	0.0	0.1-	2000 04 10	704	0.1-	0.3+
1998 11 10	704	1.7+	0.2-	2000 04 05	704	0.1+	0.1-	2000 04 10	704	0.5+	0.4-
1998 11 11	704	1.1-	0.2+	2000 04 05	704	0.1+	0.1-	2000 04 10	704	0.6+	0.0
1998 11 11	704	0.5-	0.1-	2000 04 05	704	0.1+	0.2-	2000 04 10	704	0.1+	0.6-
1998 11 11	704	0.8-	0.1+	2000 04 05	704	0.0	0.1-	2000 04 12	691	0.0	0.6-
1998 11 11	704	1.8-	0.8+	2000 04 05	704	0.0	0.7+	2000 04 12	691	0.1-	0.5-
2000 03 04	703	0.1+	0.9-	2000 04 06	699	0.1-	0.1-	2000 04 12	691	0.1-	0.5-

1998 VT₁₃ = 2000 GS₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	134.87944	(2000.0)		P	Q		
<i>n</i>	0.30276476	ω	40.04112	+0.59285316	-0.80508774		
<i>a</i>	2.1965065	Ω	13.63403	+0.71676821	+0.51680087		
<i>e</i>	0.1409927	<i>i</i>	4.60949	+0.36710825	+0.29111954		
<i>P</i>	3.26	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 26	910	0.0	0.3+	1998 11 11	704	0.6-	0.2+	2000 04 05	704	0.6+	0.2-
1998 08 26	910	0.2-	0.3+	1998 11 11	704	0.2-	0.5+	2000 04 05	704	0.3+	0.0
1998 08 26	910	0.2-	0.2+	1998 11 11	704	0.8-	0.6-	2000 04 05	704	0.4+	0.7+
1998 10 10	699	0.1-	0.2+	1998 11 11	704	0.8-	0.4-	2000 04 05	704	0.9+	0.4+
1998 10 10	699	0.2+	0.6+	1998 11 11	704	0.2+	0.4+	2000 04 05	704	1.2+	1.4+
1998 10 10	699	0.4+	0.3+	1998 11 15	699	(4.3-	1.9+)	2000 04 06	704	0.7-	0.1-
1998 11 10	704	0.3-	0.2+	1998 11 15	699	(3.9-	2.9+)	2000 04 06	704	0.1-	0.0
1998 11 10	704	0.0	0.2+	1998 11 15	699	0.3+	1.9+	2000 04 06	704	0.4-	0.1+
1998 11 10	704	0.5+	0.1-	2000 03 27	691	1.0-	0.6-	2000 04 06	704	0.7+	1.3+
1998 11 10	704	0.1+	1.0-	2000 03 27	691	0.8-	0.8-	2000 04 06	704	0.9+	0.7+
1998 11 10	704	0.7+	0.8-	2000 03 27	691	0.9-	0.7-				

1998 VK₁₄ = 1990 VV₁₅ = 2000 EN₁₁₇

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	261.41896	(2000.0)		P	Q		
<i>n</i>	0.24445689	ω	228.03528	-0.27145971	+0.95496373		
<i>a</i>	2.5331906	Ω	26.92659	-0.78613820	-0.14819157		
<i>e</i>	0.0406199	<i>i</i>	15.34110	-0.55524441	-0.25706719		
<i>P</i>	4.03	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 11 14	372	(2.6+	2.0-)	1998 11 15	699	0.3+	0.4+	2000 01 31	704	0.2-	0.2+
1990 11 14	372	0.1+	0.1-	1998 12 09	704	1.1+	0.2+	2000 01 31	704	0.5+	0.4-
1998 10 10	699	(3.8+	0.3+)	1998 12 09	704	0.6+	0.0	2000 01 31	704	0.3-	0.3+
1998 10 10	699	0.2+	1.2+	1998 12 09	704	0.1+	0.1+	2000 03 11	699	0.4-	0.2-
1998 10 10	699	0.6+	0.4+	1998 12 09	704	0.9-	0.2+	2000 03 11	699	0.6-	0.1-
1998 11 10	704	0.1+	0.1-	1998 12 17	699	0.4-	1.0-	2000 03 11	699	0.5-	0.0
1998 11 10	704	0.1+	0.4-	1998 12 17	699	0.6-	0.3-	2000 03 11	699	0.8-	0.0
1998 11 10	704	0.0	0.3-	1998 12 17	699	1.0-	0.0	2000 03 12	704	0.7-	0.1+
1998 11 10	704	0.4+	0.4-	1999 12 10	704	0.1-	0.3+	2000 03 12	704	0.2-	0.5+
1998 11 10	704	0.3-	0.0	1999 12 10	704	0.0	0.3+	2000 03 12	704	0.1-	0.3+
1998 11 11	704	0.2-	0.4-	1999 12 10	704	0.3+	1.0-	2000 03 12	704	0.2-	0.5+
1998 11 11	704	0.4-	0.5-	1999 12 10	704	0.4+	0.1-	2000 03 12	704	0.0	0.5+
1998 11 11	704	0.6+	0.2-	2000 01 03	704	0.1+	0.3-	2000 04 02	704	0.2-	0.1+
1998 11 11	704	0.4-	0.3-	2000 01 03	704	0.7+	0.2-	2000 04 02	704	0.0	0.1-
1998 11 11	704	0.7-	0.2+	2000 01 03	704	(2.5+	0.8-)	2000 04 02	704	0.4+	0.2-
1998 11 15	699	0.4+	0.6+	2000 01 03	704	1.4+	0.1-	2000 04 02	704	0.8+	0.9-
1998 11 15	699	0.2+	0.5+	2000 01 31	704	0.6+	0.5+				

1998 VL₁₄ = 2000 CE₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	152.83544	(2000.0)		P	Q		
<i>n</i>	0.24212463	ω	104.30686	+0.95180506	+0.26565061		
<i>a</i>	2.5494318	Ω	240.48725	-0.30168958	+0.90092854		
<i>e</i>	0.2208177	<i>i</i>	10.14512	+0.05523154	+0.34315815		
<i>P</i>	4.07	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.1+	0.5-	1998 12 17	691	0.5-	0.6-	2000 01 11	704	0.8-	1.4-
1998 11 10	704	0.2+	0.3-	1998 12 17	691	0.5-	0.6-	2000 01 11	704	0.5-	0.9-
1998 11 10	704	0.5+	0.4-	1999 01 06	699	0.4-	0.2+	2000 01 11	704	1.3-	0.9-
1998 11 10	704	0.1+	0.1+	1999 01 06	699	0.1-	0.4+	2000 01 11	704	0.2-	1.0+
1998 11 10	704	0.1+	0.1-	1999 01 06	699	0.8-	1.7+	2000 02 05	703	0.3+	0.4-
1998 11 11	704	0.1-	0.7-	1999 01 08	704	1.5-	0.7-	2000 02 05	703	0.9+	0.2+
1998 11 11	704	0.1+	0.1+	1999 01 08	704	0.5-	1.0+	2000 02 05	703	0.1-	0.0
1998 11 11	704	0.4-	0.1+	1999 01 08	704	0.8+	0.6-	2000 02 05	703	0.4+	0.2-
1998 11 11	704	0.7-	0.0	1999 01 08	704	0.0	1.8+	2000 02 08	704	1.3+	0.0
1998 11 11	704	0.8-	0.0	1999 01 08	704	0.5-	0.4+	2000 02 08	704	0.4-	0.1-
1998 11 15	699	0.5+	0.2+	1999 01 11	704	0.2+	0.3-	2000 02 08	704	0.4+	0.3+
1998 11 15	699	0.4+	0.3+	1999 01 11	704	1.1-	0.4-	2000 03 01	703	0.3+	0.2-
1998 11 15	699	0.8+	0.2+	1999 01 11	704	0.4+	0.8-	2000 03 01	703	0.9+	0.0
1998 12 09	704	0.3-	1.2+	1999 01 11	704	0.1+	1.1-	2000 03 01	703	0.7+	0.2-
1998 12 09	704	1.3+	0.9+	1999 02 04	704	1.5+	1.1+	2000 03 01	703	0.9+	0.2+
1998 12 09	704	(3.0-	0.3+)	1999 02 04	704	0.4-	0.8-	2000 03 27	699	0.4-	0.6+
1998 12 09	704	(2.5-	0.1-)	1999 02 04	704	0.1+	0.1-	2000 03 27	699	0.5+	0.3+
1998 12 09	704	0.5+	0.7-	1999 02 04	704	1.3+	1.9+	2000 03 27	699	2.0-	1.8+
1998 12 17	691	0.3-	1.7-	2000 01 11	704	0.9-	0.2-	2000 03 27	699	0.7-	0.4-

1998 VN₁₄ = 2000 FV₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	121.73448		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23091624	ω	356.39573	+0.88986621	-0.43700659
a	2.6312760	Ω	30.61219	+0.42474540	+0.68876396
e	0.0998202	i	14.90823	+0.16652170	+0.57847165
P	4.27	H	14.1	G 0.15	U 4

Residuals in seconds of arc

1998 10 16	691	0.6+	0.6-	1998 11 11	704	0.4+	0.8-	2000 03 12	704	1.1+	0.0
1998 10 16	691	0.6+	0.8-	1998 11 11	704	1.7+	1.8-	2000 03 12	704	0.5+	0.1+
1998 10 16	691	0.3+	0.6-	1998 11 15	699	0.8-	0.9+	2000 03 12	704	0.5+	0.7-
1998 10 19	699	0.7-	0.4+	1998 11 15	699	1.5-	1.5+	2000 03 12	704	1.0+	1.1-
1998 10 19	699	1.3+	0.4+	1998 11 15	699	0.3+	0.5+	2000 03 12	704	0.7+	0.7-
1998 10 19	699	0.3-	1.5+	2000 03 04	704	1.6-	1.0+	2000 03 28	704	0.1+	1.4-
1998 11 10	704	0.6-	0.7+	2000 03 04	704	1.6-	0.9+	2000 03 28	704	1.2+	0.8-
1998 11 10	704	1.2-	0.2-	2000 03 04	704	0.9-	1.1+	2000 03 28	704	0.3-	0.1-
1998 11 10	704	0.1+	0.4-	2000 03 04	704	1.6-	1.0+	2000 04 02	704	0.4+	0.2-
1998 11 10	704	0.7-	1.3+	2000 03 04	704	1.6-	0.8+	2000 04 02	704	1.0-	0.2-
1998 11 11	704	1.1-	0.0	2000 03 09	608	(0.8+	2.7-)	2000 04 02	704	0.1-	0.2-
1998 11 11	704	0.7+	1.6-	2000 03 09	608	1.6+	1.1-	2000 04 02	704	0.3-	0.3+
1998 11 11	704	0.9+	0.7-	2000 03 09	608	1.8+	0.9+				

1998 VB₁₅ = 2000 FA₁₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.28554729	ω	2.39979	+0.82622298	-0.56278336				
<i>a</i>	2.2839365	Ω	31.89007	+0.51606244	+0.73825260				
<i>e</i>	0.1765242	<i>i</i>	2.72427	+0.22590961	+0.37183059				
<i>P</i>	3.45	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 11 10	704	0.6+	0.6+	2000 03 30	691	0.2+	0.2-	2000 04 05	704	0.2+	0.6+
1998 11 10	704	0.9-	0.8+	2000 03 30	691	0.2+	0.2-	2000 04 05	704	0.2+	0.7+
1998 11 10	704	0.4-	0.2-	2000 03 30	691	0.2+	0.2-	2000 04 05	704	0.0	0.5+
1998 11 10	704	0.0	0.2+	2000 04 01	691	0.3-	0.0	2000 04 06	704	0.6+	1.4+
1998 11 11	704	0.3+	0.3-	2000 04 01	691	0.3-	0.2-	2000 04 06	704	0.2+	0.2+
1998 11 11	704	0.7-	0.9-	2000 04 01	691	0.0	0.8-	2000 04 06	704	0.7-	0.9-
1998 11 11	704	0.5-	0.1-	2000 04 01	691	0.2-	0.0	2000 04 06	704	0.4+	0.3-
1998 11 11	704	0.9+	0.3-	2000 04 01	691	0.1-	0.1+	2000 04 06	704	0.3-	1.0-
1998 11 16	566	1.4+	1.1-	2000 04 01	691	0.3-	0.2-	2000 04 06	704	1.2-	0.7-
1998 11 16	566	0.2+	1.5-	2000 04 02	691	0.0	0.0	2000 04 06	704	0.6+	0.2+
1998 11 16	566	0.8+	0.7-	2000 04 02	691	0.0	0.2-	2000 04 06	704	0.8-	0.4-
1998 11 20	699	0.1+	1.1+	2000 04 02	691	0.4-	0.1-	2000 04 07	699	1.0+	0.1-
1998 11 20	699	0.5+	1.5+	2000 04 03	691	0.0	0.6-	2000 04 07	699	(0.1+	2.2+)
1998 11 20	699	0.1+	0.7+	2000 04 03	691	0.1-	0.4-	2000 04 07	699	0.2-	0.9+
1998 11 23	691	0.6-	0.2-	2000 04 03	691	0.0	0.4-	2000 04 07	699	0.9+	1.0+
1998 11 23	691	0.9-	0.3+	2000 04 05	704	0.0	0.4+				
1998 11 23	691	0.9-	0.1+	2000 04 05	704	0.2+	0.9+				

1998 VD₁₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.22702885	ω	236.92560	+0.03341305	-0.97946319				
<i>a</i>	2.6612276	Ω	212.96660	+0.99467361	+0.05199879				
<i>e</i>	0.0891397	<i>i</i>	21.43251	+0.09750889	-0.19480242				
<i>P</i>	4.34	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 10 10	699	0.1+	0.5+	1998 11 10	704	0.2-	0.7+	2000 04 07	704	0.3-	0.0
1998 10 10	699	0.3+	0.5+	1998 11 11	704	0.2-	0.2-	2000 04 07	704	0.2+	0.2-
1998 10 10	699	0.1+	1.0+	1998 11 11	704	1.2-	0.5+	2000 04 07	704	0.3+	0.0
1998 10 17	691	0.3-	0.5-	1998 11 11	704	0.9-	0.3-	2000 04 07	704	0.5-	0.2+
1998 10 17	691	0.3-	0.6-	1998 11 11	704	0.6-	1.1+	2000 04 07	704	0.7+	0.2+
1998 10 17	691	0.2-	0.6-	1998 11 11	704	0.8-	1.3+	2000 04 07	704	0.2-	0.7-
1998 10 29	704	0.5-	0.5+	1998 11 14	699	0.2+	0.4-	2000 04 07	704	0.3+	0.4-
1998 10 29	704	0.1-	0.4-	1998 11 14	699	0.1+	0.7-	2000 04 07	704	1.0-	0.5-
1998 10 29	704	0.6+	0.6-	1998 11 14	699	0.1-	0.4-	2000 04 07	704	1.1+	0.5+
1998 10 29	704	0.7+	0.3-	1998 11 16	566	0.5-	0.0	2000 04 08	699	0.5-	0.3+
1998 10 29	704	0.4-	0.6-	1998 11 16	566	0.3-	0.0	2000 04 08	699	0.2-	0.6+
1998 11 10	704	0.7+	0.4-	1998 11 16	566	0.5-	0.0	2000 04 08	699	0.2+	0.2-
1998 11 10	704	1.2+	0.8-	1998 11 19	699	0.4+	0.2+	2000 04 08	699	0.2-	0.2+

1998 11 10	704	0.5+	0.1-	1998 11 19	699	0.4+	0.8+
1998 11 10	704	0.3+	0.1-	1998 11 19	699	1.2+	0.0

1998 VY₁₇ = 2000 EK₅₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.24130349	ω	54.30967	+0.95665078	-0.29025989				
<i>a</i>	2.5552122	Ω	322.54752	+0.25293608	+0.86863271				
<i>e</i>	0.2634566	<i>i</i>	2.24706	+0.14436974	+0.40153009				
<i>P</i>	4.08	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 08 31	704	0.9+	0.5-	1998 11 10	704	0.2-	0.5-	2000 03 03	691	0.6-	0.1-
1998 08 31	704	1.6-	1.6-	1998 11 11	704	0.2-	0.1-	2000 03 03	704	0.2-	0.6-
1998 08 31	704	0.2+	1.0-	1998 11 11	704	0.2-	0.3+	2000 03 03	704	1.9+	0.2-
1998 08 31	704	2.0+	0.5-	1998 11 11	704	0.7-	0.8-	2000 03 03	704	0.7+	0.3+
1998 08 31	704	0.2-	0.7+	1998 11 11	704	0.4-	0.1-	2000 03 03	704	0.8+	0.7+
1998 10 19	699	0.5-	0.3-	1998 11 11	704	0.9+	1.6+	2000 03 10	691	0.1-	0.3-
1998 10 19	699	0.1-	0.0	1998 11 15	699	0.2+	1.4+	2000 03 10	691	0.4-	0.2-
1998 10 19	699	0.5-	0.1-	1998 11 15	699	0.1+	1.2+	2000 03 10	691	0.5-	0.2-
1998 11 10	704	0.2+	0.8-	1998 11 15	699	0.2-	1.2+	2000 03 14	691	0.5-	0.3-
1998 11 10	704	0.5+	1.4-	2000 03 03	691	0.4-	0.1-	2000 03 14	691	0.9-	0.3-
1998 11 10	704	1.0+	0.6-	2000 03 03	691	0.4-	0.1-	2000 03 14	691	0.9-	0.6-
1998 11 10	704	0.4-	0.0	2000 03 03	704	0.5+	0.2-				

1998 VT₁₈ = 2000 EH₈₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>			(2000.0)			P		Q	
<i>n</i>	0.17396038	ω	224.98326	-0.44075531	-0.88526472				
<i>a</i>	3.1781116	Ω	251.69703	+0.86125885	-0.37047105				
<i>e</i>	0.1778241	<i>i</i>	8.99647	+0.25291887	-0.28117181				
<i>P</i>	5.67	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 11 10	704	0.0	0.5+	2000 01 11	704	(2.5-	0.5+)	2000 03 08	704	0.4-	0.5+
1998 11 10	704	0.4+	0.0	2000 01 11	699	0.7+	0.1+	2000 03 08	704	0.5-	0.0
1998 11 10	704	1.4+	0.5+	2000 01 11	704	0.0	1.2-	2000 03 13	704	0.7-	0.0
1998 11 11	704	0.2-	0.1+	2000 01 11	704	0.1-	1.8-	2000 03 13	704	0.5+	0.7+
1998 11 11	704	0.6+	0.2-	2000 02 07	703	0.6+	0.2+	2000 03 13	704	0.1-	0.0
1998 11 11	704	0.7-	0.7-	2000 02 07	703	0.2-	0.1-	2000 03 13	704	0.2+	0.5-
1998 11 11	704	0.8-	0.5-	2000 02 07	703	0.1-	0.0	2000 03 14	703	0.3-	0.2-
1998 11 11	704	0.1-	0.6-	2000 02 07	703	0.3+	0.6-	2000 03 14	703	0.5-	0.1-
1998 11 15	699	0.0	0.3+	2000 02 08	704	0.5+	0.0	2000 03 14	703	1.1+	0.4+
1998 11 15	699	0.6-	0.5+	2000 02 08	704	0.3+	0.2+	2000 03 14	703	1.1-	0.6-
1998 11 15	699	0.2-	1.3+	2000 02 08	704	0.8+	0.2+	2000 04 04	699	0.4-	0.3+
1999 12 14	704	0.4-	0.1-	2000 02 08	704	0.4+	0.1+	2000 04 04	699	0.2+	0.0
1999 12 14	704	0.9-	0.5-	2000 02 08	704	0.4+	0.1+	2000 04 04	699	0.7-	0.7+
1999 12 14	704	0.8-	1.3-	2000 02 13	704	(1.7+	4.3-)	2000 04 04	699	0.1+	0.3+
1999 12 14	704	0.1-	0.2-	2000 02 13	704	1.8+	1.9+	2000 04 04	704	1.0-	0.6+
1999 12 14	704	0.7-	0.4-	2000 02 13	704	(0.4-	3.7+)	2000 04 04	704	1.2+	1.1-
2000 01 11	699	0.6-	0.4+	2000 03 08	704	0.3-	0.5-	2000 04 04	704	0.5+	0.3-
2000 01 11	699	0.2+	1.0+	2000 03 08	704	0.8-	0.3-	2000 04 04	704	1.5+	1.8+
2000 01 11	704	0.8-	0.0	2000 03 08	704	0.6-	0.2+				

<

Residuals in seconds of arc

1998 11 10	704	0.3+	0.3+	1998 12 08	704	0.0	0.4-	2000 03 29	704	0.6-	0.1-
1998 11 10	704	0.2+	0.0	1998 12 08	704	0.6-	0.4-	2000 03 29	704	1.2-	0.5-
1998 11 10	704	0.2-	0.3-	1998 12 08	704	(0.6-	2.3+)	2000 03 29	704	0.9-	0.1+
1998 11 10	704	0.1+	0.1-	1998 12 08	704	(5.1-	2.8+)	2000 03 29	704	0.8+	0.8+
1998 11 10	704	0.5-	1.2-	1998 12 08	699	0.3-	0.0	2000 04 03	699	0.0	0.3+
1998 11 11	704	0.7+	0.5+	1998 12 08	699	1.0-	0.5+	2000 04 03	699	0.1+	0.2-
1998 11 11	704	0.1-	0.1+	1998 12 08	699	0.0	0.3+	2000 04 03	699	0.2-	0.2-
1998 11 11	704	0.1+	0.3-	1998 12 09	691	0.2-	0.3+	2000 04 03	699	0.1+	0.3+
1998 11 11	704	0.1-	0.5-	1998 12 09	691	0.1-	0.1+	2000 04 04	704	0.8+	0.5-
1998 11 11	704	0.5-	0.4-	1998 12 09	691	0.0	0.2+	2000 04 04	704	0.2-	0.4+
1998 11 11	699	0.4+	0.7+	1998 12 13	691	0.5+	0.3+	2000 04 04	704	0.3+	0.2-
1998 11 11	699	0.2+	0.7+	1998 12 13	691	0.5+	0.1+	2000 04 04	704	0.2+	0.4+
1998 11 11	699	0.6+	0.3+	1998 12 13	691	0.4+	0.1+	2000 04 04	704	1.2+	0.7-
1998 12 08	704	0.5-	1.0-	2000 03 29	704	0.4-	0.1-				

1998 VU₂₁ = 2000 GE₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	153.60675		(2000.0)	P	Q
n	0.29422130	ω	19.26298	+0.88576196	-0.46396747
a	2.2388241	Ω	8.41388	+0.41369376	+0.77684439
e	0.1280782	i	4.95817	+0.21043579	+0.42573110
P	3.35	H	16.1	G	0.15
				U	5

Residuals in seconds of arc

1998 10 19	699	0.2+	0.4+	1998 11 11	704	0.3-	0.0	2000 03 30	691	0.5-	0.3-
1998 10 19	699	0.6-	0.0	1998 11 11	704	0.9-	1.5-	2000 04 05	704	0.2+	1.5+
1998 10 19	699	0.6+	0.2-	1998 11 11	704	(2.4-	0.0)	2000 04 05	704	0.1-	1.3-
1998 11 10	704	0.5-	0.1-	1998 11 11	704	0.4-	0.7+	2000 04 05	704	0.0	0.0
1998 11 10	704	1.5+	0.2-	1998 11 15	699	0.1-	0.3+	2000 04 05	704	0.7+	0.9+
1998 11 10	704	0.3+	0.0	1998 11 15	699	0.3-	1.2+	2000 04 05	704	0.0	0.3-
1998 11 10	704	1.1-	0.5+	1998 11 15	699	0.4+	0.6+	2000 04 06	704	1.3+	0.1-
1998 11 10	704	0.9+	1.3-	2000 03 30	691	0.6-	0.2-	2000 04 06	704	0.5-	0.2+
1998 11 11	704	0.5-	0.4-	2000 03 30	691	0.5-	0.5-	2000 04 06	704	0.0	0.1+

1998 VN₂₄ = 1999 BM₃₃ = 1999 CH₂ = 2000 EW₁₄₉

Id. A. Doppler (d, MPC 34339), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	88.07298		(2000.0)	P	Q
n	0.22561303	ω	3.49375	+0.35166558	-0.90841612
a	2.6723496	Ω	66.02296	+0.85276932	+0.21124797
e	0.1528649	i	14.32546	+0.38615516	+0.36076924
P	4.37	H	13.1	G	0.15
				U	2

Residuals in seconds of arc

1992 05 03	809	1.2-	1.4-	1999 01 11	704	0.9-	0.1-	2000 01 07	704	0.2-	1.0-
1992 05 03	809	0.4-	1.9-	1999 01 11	704	1.0-	0.5+	2000 01 07	704	0.5-	0.2-
1992 05 03	809	0.6-	1.6-	1999 01 23	327	0.0	0.6+	2000 01 07	704	1.3-	0.1-
1998 11 10	704	0.2-	0.4-	1999 01 23	327	0.2+	0.2-	2000 02 04	704	0.7+	0.9-
1998 11 10	704	0.3+	0.4-	1999 01 23	327	0.3+	0.0	2000 02 04	704	0.9+	1.7-
1998 11 10	704	0.3-	0.4+	1999 01 28	327	0.5+	0.8+	2000 02 04	704	0.8+	0.4-
1998 11 10	704	0.0	0.1+	1999 01 28	327	0.2-	0.2+	2000 02 04	704	1.9+	0.5-
1998 11 10	704	0.4+	0.8-	1999 01 28	327	0.0	0.4+	2000 03 05	704	0.3+	0.4+
1998 11 11	704	0.1+	0.4-	1999 02 01	327	0.5+	0.4-	2000 03 05	704	0.5+	0.9+
1998 11 11	704	1.1+	1.5-	1999 02 01	327	0.1+	0.0	2000 03 05	704	0.3+	0.4+
1998 11 11	704	0.6+	0.7-	1999 02 01	327	0.2-	0.4-	2000 03 05	704	0.4+	0.0
1998 11 19	699	0.4+	0.3+	1999 02 02	699	0.1+	1.6+	2000 03 08	608	0.2-	0.6-
1998 11 19	699	0.7+	0.1+	1999 02 02	699	0.7-	0.7-	2000 03 08	608	0.1+	0.7-
1998 11 19	699	0.7+	0.1+	1999 02 02	699	0.6+	1.0-	2000 03 08	608	0.1+	0.2-
1999 01 06	699	0.3-	0.4-	1999 02 05	327	0.9-	0.1+	2000 04 04	704	0.2-	0.7+
1999 01 06	699	0.2-	0.4-	1999 02 05	327	0.8-	0.2+	2000 04 04	704	0.3-	0.4+
1999 01 06	699	0.3-	0.7-	1999 02 05	327	0.7-	0.3+	2000 04 04	704	0.1+	0.0
1999 01 07	704	0.8+	1.1-	1999 02 05	327	0.7-	0.3+	2000 04 04	704	0.4-	0.2+
1999 01 07	704	0.4-	0.2-	1999 02 06	704	1.4+	1.5-	2000 04 04	704	0.2-	0.2+
1999 01 07	704	0.6+	0.7+	1999 02 06	704	0.5+	0.7-	2000 04 08	704	0.3+	0.9+
1999 01 07	704	1.4+	0.8+	1999 02 06	704	1.7+	0.6-	2000 04 08	704	1.0-	0.5-

1999 01 11	704	0.8-	0.0	1999 02 06	704	1.4-	0.4+	2000 04 08	704	1.1-	0.0
1999 01 11	704	0.5-	1.4-	2000 01 07	704	0.3-	0.2+	2000 04 08	704	0.7-	0.0
1999 01 11	704	0.7-	1.3+	2000 01 07	704	0.1-	0.5+	2000 04 08	704	0.6-	0.5+

1998 VM₂₅ = 2000 GY₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	104.26090		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28421265	ω	227.13737	+0.09357666	-0.99475791
a	2.2910810	Ω	217.55212	+0.93204730	+0.10208775
e	0.1205024	i	3.87909	+0.35004462	-0.00589778
P	3.47	H	15.0	G 0.15	U 1

Residuals in seconds of arc

1994 09 09	691	0.1-	0.4+	1998 11 10	704	0.1-	1.4+	1998 11 24	699	0.5+	0.0
1994 09 09	691	0.1-	0.3+	1998 11 10	704	1.0+	0.7+	1999 01 07	699	0.2+	0.3-
1994 09 09	691	0.1+	0.1+	1998 11 10	704	1.5+	0.1-	1999 01 07	699	0.9+	0.1-
1996 01 27	691	0.1-	0.4-	1998 11 11	704	0.0	0.2-	1999 01 07	699	0.7-	0.1-
1996 01 27	691	0.0	0.2-	1998 11 11	704	0.1-	0.0	2000 04 05	704	0.0	0.8+
1996 01 27	691	0.3-	0.5-	1998 11 11	704	0.1-	0.0	2000 04 05	704	0.3-	1.0+
1998 08 31	704	0.2-	0.5+	1998 11 11	704	0.4-	1.1+	2000 04 05	704	0.1-	0.8+
1998 08 31	704	0.0	0.9-	1998 11 11	704	0.2-	0.9+	2000 04 05	704	0.5+	0.9+
1998 08 31	704	(1.7+	2.7-)	1998 11 11	704	0.4-	0.3-	2000 04 06	704	0.1+	0.9+
1998 08 31	704	0.4-	0.9+	1998 11 11	704	1.0-	0.3+	2000 04 06	704	0.1-	0.1+
1998 10 18	699	0.4-	1.0+	1998 11 11	704	0.1-	0.1+	2000 04 06	704	(0.2-	2.1+)
1998 10 18	699	0.3+	0.3+	1998 11 11	704	0.2-	0.7+	2000 04 06	704	0.3+	1.0+
1998 10 18	699	0.2-	0.2+	1998 11 11	699	0.1-	0.4+	2000 04 07	704	1.1+	0.4+
1998 10 19	691	0.9-	0.0	1998 11 11	704	0.4+	1.0+	2000 04 07	704	1.4+	1.8+
1998 10 19	691	0.8-	0.1-	1998 11 11	699	0.1+	0.0	2000 04 07	704	0.4-	1.3+
1998 10 19	691	1.0-	0.1-	1998 11 11	699	0.2-	0.9+	2000 04 07	704	0.1+	1.6+
1998 11 10	704	0.2-	0.3+	1998 11 24	699	0.3+	0.1+				
1998 11 10	704	0.4+	0.2+	1998 11 24	699	0.3-	0.1-				

1998 VY₂₅ = 2000 GE₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	64.03763		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27709007	ω	78.08535	-0.44237875	-0.89610687
a	2.3301761	Ω	38.23580	+0.79855075	-0.41183727
e	0.0223147	i	3.33146	+0.40818837	-0.16547673
P	3.56	H	15.1	G 0.15	U 2

Residuals in seconds of arc

1993 04 21	691	1.0+	0.1+	1999 01 13	910	0.2+	0.2+	2000 04 02	699	0.4+	0.2-
1993 04 21	691	1.0-	1.5+	1999 01 13	910	0.0	0.5+	2000 04 04	704	0.1+	0.1-
1993 04 21	691	0.9+	0.2+	1999 01 13	910	0.2+	0.2+	2000 04 04	704	1.7+	0.5+
1998 10 18	699	0.2+	0.0	1999 01 14	910	0.0	0.0	2000 04 04	704	(3.1-	0.3-)
1998 10 18	699	0.4+	0.6+	1999 01 14	910	0.3-	0.1-	2000 04 04	704	0.8-	0.5-
1998 10 18	699	0.7-	0.4+	1999 01 14	910	0.2-	0.1-	2000 04 05	704	0.1+	0.0
1998 11 10	704	0.3-	0.6-	1999 01 19	910	0.4-	0.2-	2000 04 05	704	1.4+	0.1-
1998 11 10	704	0.9-	0.3-	1999 01 19	910	0.1-	0.0	2000 04 05	704	0.2-	0.3-
1998 11 10	704	1.2-	1.5+	1999 01 19	910	0.1-	0.1+	2000 04 05	704	0.0	0.1+
1998 11 10	704	0.7+	0.6+	2000 03 01	703	0.4-	0.2-	2000 04 05	704	0.2-	0.1+
1998 11 11	704	0.1-	0.3+	2000 03 01	703	0.3+	0.5+	2000 04 06	699	0.3-	0.1+
1998 11 11	704	0.9+	0.3+	2000 03 01	703	1.0+	0.3+	2000 04 06	704	0.1+	0.0
1998 11 11	704	1.6+	0.0	2000 03 01	703	0.8-	0.6-	2000 04 06	704	0.1+	0.2+
1998 11 11	704	0.2-	0.2-	2000 03 08	704	0.6-	0.3+	2000 04 06	699	0.4-	0.2+
1998 11 11	704	0.7-	0.7-	2000 03 08	704	1.1+	0.2-	2000 04 06	704	0.0	0.2+
1998 11 16	566	0.5-	1.8-	2000 03 08	704	0.5+	0.5-	2000 04 06	699	0.7-	0.1-
1998 11 16	566	0.2+	0.5-	2000 03 08	704	0.2-	0.3-	2000 04 06	704	0.0	0.2+
1998 11 16	566	0.5+	0.3-	2000 03 08	704	0.5-	0.1+	2000 04 06	699	0.6-	0.2-
1998 11 24	691	0.2-	0.2-	2000 03 10	704	0.0	0.2-	2000 04 06	704	0.2+	0.1+
1998 11 24	691	0.5-	0.1-	2000 03 10	704	0.0	1.2-	2000 04 10	704	0.3+	0.1-
1998 11 24	691	0.4-	0.2-	2000 03 10	704	(3.9-	0.1-)	2000 04 10	704	0.2-	0.0
1998 11 24	699	1.5+	0.6+	2000 04 02	699	0.0	0.2+	2000 04 10	704	0.9-	0.4+
1998 11 24	699	0.2-	0.7+	2000 04 02	699	0.0	0.0	2000 04 10	704	0.4-	0.4-
1998 11 24	699	0.1-	0.6+	2000 04 02	699	0.1-	1.0+	2000 04 10	704	0.2-	0.2-

2000 APR. 18

M.P.C. 40039

1998 VX₂₆

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21989014	ω	121.57653	+0.14375657	−0.98850839		
<i>a</i>	2.7185180	Ω	320.07409	+0.88148247	+0.14937632		
<i>e</i>	0.1374822	<i>i</i>	4.17693	+0.44980296	+0.02319231		
<i>P</i>	4.48	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 10	704	0.9−	0.0	1998 11 19	888	0.6−	0.6+	2000 03 26	699	0.4−	1.1−
1998 11 10	704	0.6+	0.0	1998 11 19	888	0.6−	0.1+	2000 04 07	699	0.2+	0.4+
1998 11 10	704	0.0	0.6−	1998 11 19	888	0.5−	0.2+	2000 04 07	699	0.0	0.4−
1998 11 10	704	0.3+	0.9−	1998 11 20	888	0.5−	0.3+	2000 04 07	699	0.3+	0.3+
1998 11 10	704	1.8+	1.0−	1998 11 20	888	0.1+	0.4+	2000 04 07	699	0.2+	0.1−
1998 11 11	704	0.7+	0.3−	1998 11 20	888	0.0	0.0	2000 04 08	704	0.7+	1.2+
1998 11 11	704	0.3+	0.4+	2000 03 26	699	0.4−	0.5−	2000 04 08	704	0.6+	0.1+
1998 11 11	704	0.1+	0.2+	2000 03 26	699	0.3−	0.2−	2000 04 08	704	0.5−	0.8+
1998 11 11	704	0.9−	0.5+	2000 03 26	699	0.6−	0.3−	2000 04 08	704	0.3+	0.2−

1998 VM₂₇ = 2000 CY₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21993184	ω	8.31489	+0.09736713	+0.99009950		
<i>a</i>	2.7181744	Ω	267.31540	−0.91884637	+0.05039263		
<i>e</i>	0.1541352	<i>i</i>	5.80932	−0.38241468	+0.13100978		
<i>P</i>	4.48	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 10	704	0.0	0.5−	1998 11 11	704	0.9−	0.3−	2000 02 02	704	0.3+	0.9+
1998 11 10	704	0.0	0.1−	1998 11 11	704	0.4+	0.9+	2000 02 02	704	0.3+	0.8−
1998 11 10	704	0.1−	0.3−	1998 11 16	566	0.3+	0.5−	2000 02 03	704	0.3−	0.4+
1998 11 10	704	0.1+	0.6−	1998 11 16	566	0.0	0.4−	2000 02 03	704	0.0	1.1−
1998 11 11	704	0.5−	1.7+	1998 11 16	566	0.3+	0.3−	2000 02 03	704	0.1−	0.7−
1998 11 11	704	0.9−	1.2+	2000 02 02	704	0.6+	0.8+	2000 02 03	704	0.6−	0.7−
1998 11 11	704	1.2+	0.7−	2000 02 02	704	0.6+	1.9+	2000 02 03	704	0.9−	0.6−

1998 VP₂₉ = 2000 CN₄₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17595285	ω	123.29897	+0.90070379	−0.42298849		
<i>a</i>	3.1540737	Ω	261.89704	+0.35786214	+0.85168520		
<i>e</i>	0.1472673	<i>i</i>	5.74272	+0.24630749	+0.30937526		
<i>P</i>	5.60	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 07	910	0.1−	0.7+	1998 11 16	566	0.5−	0.4−	1998 11 24	704	1.0+	1.8+
1997 09 07	910	0.2−	0.8+	1998 11 16	566	0.5−	0.3−	1998 11 24	704	0.5+	0.6+
1997 09 07	910	0.4−	1.1+	1998 11 18	704	0.4+	0.4−	2000 02 02	704	0.0	0.1−
1998 11 10	704	0.6+	0.1+	1998 11 18	704	0.2−	0.3−	2000 02 02	704	0.2+	0.1+
1998 11 10	704	0.5+	0.5+	1998 11 18	704	1.2−	0.2−	2000 02 02	704	0.1−	0.5+
1998 11 10	704	(0.9−	2.2+)	1998 11 18	704	0.8−	0.1+	2000 02 06	704	0.3−	1.0+
1998 11 10	704	(1.3−	2.2+)	1998 11 21	704	1.2+	0.3+	2000 02 06	704	0.0	0.9+
1998 11 11	704	0.6−	0.7−	1998 11 21	704	0.5+	0.2+	2000 02 06	704	0.4+	0.3−
1998 11 11	704	0.1+	0.2−	1998 11 21	704	(1.2+	2.4+)	2000 02 06	704	0.8+	0.2+
1998 11 11	704	1.2−	0.2−	1998 11 21	704	0.5+	0.9+				
1998 11 16	566	0.1−	0.8−	1998 11 24	704	0.3−	1.0−				

1998 VK₃₁ = 2000 EV₁₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25433454	ω	19.10688	−0.03172443	+0.99054000		
<i>a</i>	2.4671704	Ω	249.25488	−0.93460584	−0.07674373		
<i>e</i>	0.0844850	<i>i</i>	8.20775	−0.35426754	+0.11375815		
<i>P</i>	3.88	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 14	411	0.8+	0.2−	1998 12 15	704	1.3+	0.1−	2000 03 12	699	0.2−	0.1−
1998 11 14	411	0.2+	0.6−	1998 12 15	704	0.1+	0.6−	2000 03 12	699	0.3−	0.0
1998 11 15	411	0.7−	0.1+	1998 12 15	704	0.6+	0.9+	2000 03 12	699	0.4−	0.0
1998 11 15	411	0.2+	0.6+	1998 12 21	411	0.6+	1.1+	2000 03 12	699	0.5+	0.2−
1998 11 20	411	0.2+	0.6+	1998 12 21	411	0.7−	0.5−	2000 03 13	704	0.6+	0.9+
1998 11 20	411	1.9−	0.2+	1998 12 22	704	0.5−	0.0	2000 03 13	704	0.2−	0.1−
1998 12 12	411	1.0+	0.5−	1998 12 22	704	(0.2+	2.6+)	2000 03 13	704	0.1−	0.1−
1998 12 12	411	1.1+	0.8−	1998 12 22	704	1.2−	0.8+	2000 03 13	704	0.1−	0.2−
1998 12 12	411	0.7+	0.2+	1998 12 22	704	1.8−	0.8−	2000 03 13	704	0.3+	0.1−

1998 VW₃₂ = 2000 DR₃

Id. M. E. Sansaturio, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25578787	ω	238.27794	+0.38163071	+0.92425015		
<i>a</i>	2.4578163	Ω	54.16068	−0.84341134	+0.35304484		
<i>e</i>	0.1195899	<i>i</i>	0.77315	−0.37817366	+0.14533062		
<i>P</i>	3.85	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	369	0.8+	0.6+	1999 02 09	691	0.9+	0.4−	2000 02 29	704	0.0	0.6+
1998 11 11	369	0.4+	0.9−	1999 02 10	691	0.5−	0.7−	2000 03 02	104	0.2−	1.1−
1998 11 11	369	0.1−	0.2−	1999 02 10	691	1.0−	0.0	2000 03 02	104	0.1+	0.3−
1998 11 11	120	0.0	1.0+	1999 02 10	691	0.4−	0.0	2000 03 02	104	0.1−	0.6+
1998 11 11	120	1.8−	0.1−	1999 02 14	691	0.1+	0.3−	2000 03 03	704	0.1+	0.2+
1998 11 12	369	0.3−	0.1+	1999 02 14	691	0.3+	0.2−	2000 03 03	704	0.8+	0.3+
1998 11 12	369	0.7−	1.1+	1999 02 14	691	0.3+	0.4−	2000 03 03	704	0.4+	0.5+
1998 11 15	369	0.1−	0.1−	2000 01 10	691	0.0	0.2−	2000 03 03	704	0.4+	0.5+
1998 11 15	369	0.5−	0.7−	2000 01 10	691	0.1+	0.0	2000 03 03	704	0.9+	0.1−
1998 11 19	699	1.5+	1.0+	2000 01 10	691	0.1−	0.3−	2000 03 05	704	0.2+	0.5+
1998 11 19	699	0.6+	0.4−	2000 02 24	104	0.1−	0.2−	2000 03 05	704	0.5−	0.0
1998 11 19	699	0.5+	0.4−	2000 02 24	104	0.2−	0.7−	2000 03 05	704	0.3+	0.4−
1998 11 24	691	0.1+	0.2−	2000 02 24	104	0.2+	0.1+	2000 03 05	704	0.3−	0.2+
1998 11 24	691	0.3+	0.2−	2000 02 24	104	0.2−	0.5−	2000 03 05	704	0.3−	0.2−
1998 11 24	691	0.2+	0.2−	2000 02 25	703	0.7+	0.8+	2000 03 12	104	1.5+	1.2−
1998 11 28	369	1.5−	1.1+	2000 02 25	703	0.1−	0.0	2000 03 12	104	0.2−	0.9−
1998 11 28	369	0.1−	1.0+	2000 02 25	703	1.1−	1.0+	2000 03 22	104	0.3−	0.6−
1998 12 08	691	0.3−	0.2−	2000 02 25	703	0.3+	0.1+	2000 03 22	104	0.3−	0.5−
1998 12 08	691	0.3−	0.4−	2000 02 28	104	0.5−	0.4−	2000 03 22	104	0.4+	0.1−
1998 12 08	691	0.1−	0.3−	2000 02 28	104	0.4−	0.3−	2000 04 03	699	0.2−	1.0−
1998 12 14	691	0.4+	0.1+	2000 02 28	104	0.4−	0.2+	2000 04 03	699	0.9−	0.4+
1998 12 14	691	0.5+	0.0	2000 02 29	704	0.4+	0.6+	2000 04 03	699	0.2+	0.1+
1998 12 14	691	0.5+	0.4−	2000 02 29	704	0.1+	0.6+	2000 04 03	699	0.9−	0.2+
1999 02 09	691	0.5+	0.3+	2000 02 29	704	0.2−	0.7+				
1999 02 09	691	0.2+	0.4−	2000 02 29	704	0.4+	0.8+				

1998 VA₃₃ = 2000 GS₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27015336	ω	315.72187	−0.98267530	+0.18440336		
<i>a</i>	2.3698952	Ω	234.91327	−0.16311943	−0.90808595		
<i>e</i>	0.1589468	<i>i</i>	1.30002	−0.08798471	−0.37599908		
<i>P</i>	3.65	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 10 31	691	0.4+	0.4-	1998 11 24	704	(2.4+	0.1+)	1998 12 15	691	0.5+	0.0
1994 10 31	691	0.1-	0.1-	1998 11 24	704	(0.7+	2.9-)	1999 03 09	691	0.1-	0.1+
1994 10 31	691	0.1-	0.0	1998 11 28	369	1.2+	0.8+	1999 03 09	691	0.2-	0.0
1998 11 11	369	1.3+	0.0	1998 11 28	369	0.4-	0.0	1999 03 09	691	0.4+	0.3-
1998 11 11	369	0.3-	0.3+	1998 12 06	120	0.9-	0.3-	2000 04 06	704	0.5-	0.5-
1998 11 11	369	0.9+	0.1+	1998 12 06	120	0.7-	0.1-	2000 04 06	704	0.2+	0.2+
1998 11 12	369	0.3+	0.9+	1998 12 06	120	1.0-	0.4-	2000 04 06	704	0.1+	0.1+
1998 11 12	369	1.4-	1.2+	1998 12 06	120	(2.5-	0.2+)	2000 04 06	704	0.3-	0.0
1998 11 15	369	1.2-	0.6+	1998 12 10	691	0.1-	0.3-	2000 04 06	704	0.1-	0.7-
1998 11 15	369	0.7-	1.2-	1998 12 10	691	0.0	0.1-	2000 04 08	704	1.0+	0.4+
1998 11 18	369	0.7+	0.8+	1998 12 10	691	0.2+	0.1-	2000 04 08	704	0.1+	0.7+
1998 11 18	369	0.0	0.1+	1998 12 14	691	0.6-	0.1-	2000 04 08	704	0.2-	0.2+
1998 11 21	704	1.2+	0.1+	1998 12 14	691	0.6-	0.3-	2000 04 08	704	0.2+	0.6-
1998 11 21	704	1.0+	1.1-	1998 12 14	691	0.4-	0.5-	2000 04 08	704	0.4-	0.2+
1998 11 24	704	0.3+	0.1-	1998 12 15	691	0.3+	0.1-				
1998 11 24	704	(2.2+	0.9-)	1998 12 15	691	0.2+	0.1+				

1998 VC₃₃ = 2000 EO₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22333255	ω	147.21572	-0.58939555	+0.77364462		
<i>a</i>	2.6905105	Ω	85.60669	-0.78230792	-0.47478988		
<i>e</i>	0.1756183	<i>i</i>	13.48856	-0.20151229	-0.41958141		
<i>P</i>	4.41	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 24	327	0.2-	1.0-	2000 02 04	704	0.1+	0.8-	2000 03 15	704	1.4-	0.1+
1996 05 24	327	0.2-	0.0	2000 02 04	704	0.1+	0.0	2000 03 29	704	0.1+	0.3-
1996 05 24	327	0.1-	0.5-	2000 02 04	704	0.3-	0.0	2000 03 29	704	0.2+	0.1-
1998 11 12	369	1.3-	0.5+	2000 03 05	704	0.6+	0.5-	2000 03 29	704	0.0	0.4-
1998 11 12	369	(0.0	2.2+)	2000 03 05	704	0.4-	0.3-	2000 03 29	704	0.0	0.5-
1998 11 12	369	0.5-	1.0-	2000 03 05	704	0.4+	0.9+	2000 03 29	704	0.2-	0.2-
1998 11 15	369	0.1+	0.5-	2000 03 05	608	0.2+	0.9-	2000 04 03	704	0.5+	0.2-
1998 11 15	369	0.2-	1.0-	2000 03 05	608	0.5+	0.8-	2000 04 03	704	0.3-	0.1-
1998 12 16	704	0.4-	0.1+	2000 03 05	608	0.3+	0.8-	2000 04 03	704	0.5+	0.7+
1998 12 16	704	0.0	1.0+	2000 03 11	703	0.2+	0.2+	2000 04 03	704	0.3+	0.1-
1998 12 16	704	0.1+	0.3-	2000 03 11	703	0.1-	0.2+	2000 04 03	704	0.2+	0.6+
1998 12 16	704	0.1+	0.6+	2000 03 11	703	0.1+	0.2+	2000 04 08	704	0.2+	0.0
1998 12 17	704	1.1+	0.1-	2000 03 11	703	0.3-	0.2+	2000 04 08	704	0.2-	0.0
1998 12 17	704	0.7-	0.1-	2000 03 12	699	0.2+	0.2+	2000 04 08	704	0.8+	0.1-
1998 12 17	704	1.4+	0.2+	2000 03 12	699	0.0	0.6+	2000 04 08	704	0.5+	0.8+
1999 01 16	704	(1.9-	2.3-)	2000 03 12	699	0.0	0.3+	2000 04 08	704	0.4+	0.1+
1999 01 16	704	0.5+	1.0-	2000 03 12	699	0.3+	0.1+	2000 04 14	704	1.0+	0.2+
1999 01 16	704	(3.0-	0.7+)	2000 03 15	704	0.4-	0.1+	2000 04 14	704	0.3+	0.5+
1999 01 16	704	(0.9-	2.4-)	2000 03 15	704	0.4-	0.2+	2000 04 14	704	1.0-	0.8-
2000 02 04	704	1.0-	1.3+	2000 03 15	704	0.6-	0.1+	2000 04 14	704	(2.1+	0.5+)
2000 02 04	704	0.2-	0.1+	2000 03 15	704	0.5-	0.1-	2000 04 14	704	0.8-	0.1-

1998 VX₃₃ = 2000 GN₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.28521965	ω	149.31748	+0.97115909	-0.23716796		
<i>a</i>	2.2856852	Ω	224.42377	+0.21103038	+0.90286138		
<i>e</i>	0.1536562	<i>i</i>	2.00776	+0.11097834	+0.35859822		
<i>P</i>	3.46	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 11 27	691	0.1-	0.7-	1998 11 18	910	0.0	0.1+	2000 03 11	704	0.8+	0.5+
1995 11 27	691	0.1-	1.0-	1998 11 23	691	0.4-	0.4-	2000 03 11	704	0.5+	0.9+
1995 11 27	691	0.2-	1.4-	1998 11 23	691	0.5-	0.2-	2000 03 11	704	1.0+	0.3+
1996 01 29	691	0.7-	0.7-	1998 11 23	691	0.3-	0.2-	2000 03 26	699	0.8+	0.1+
1996 01 29	691	0.2+	0.8-	1998 12 15	910	0.2-	0.6+	2000 03 26	699	0.2+	0.8+
1996 01 29	691	0.5-	0.9-	1998 12 15	910	0.1-	0.6+	2000 03 26	699	1.2+	0.0
1998 11 11	704	1.0-	0.7-	1998 12 15	910	0.2-	0.7+	2000 03 26	699	0.3+	0.3-
1998 11 11	704	0.8-	1.2+	1998 12 21	910	0.1-	0.5+	2000 04 05	704	0.7-	0.1-

1998 11 11	704	(7.0-	0.2-)	1998 12 21	910	0.3-	0.6+	2000 04 05	704	0.3-	0.2-
1998 11 11	910	1.4+	0.8+	1998 12 21	910	0.2-	0.8+	2000 04 05	704	0.1-	0.2+
1998 11 11	910	1.2+	0.9+	2000 03 10	704	0.2+	0.5+	2000 04 05	704	0.5-	0.1+
1998 11 11	910	1.3+	1.0+	2000 03 10	704	0.2+	0.3+	2000 04 05	704	0.1-	0.7+
1998 11 14	691	0.8-	0.3-	2000 03 10	704	0.4+	0.0	2000 04 06	704	0.8+	0.1-
1998 11 14	691	0.7-	0.6-	2000 03 10	704	0.6+	0.6+	2000 04 06	704	0.3-	0.0
1998 11 14	691	0.8-	0.5-	2000 03 10	704	0.2-	0.6+	2000 04 06	704	1.3-	1.0+
1998 11 17	910	1.2+	0.1-	2000 03 11	704	1.4-	0.7-	2000 04 06	704	0.2-	0.1-
1998 11 17	910	0.1+	0.1-	2000 03 11	704	0.1+	0.1-				

1998 VP₃₄ = 2000 CN₆₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.19893315	ω	92.97595	+0.70691801	+0.70717246		
<i>a</i>	2.9062387	Ω	222.01928	-0.65650878	+0.64910386		
<i>e</i>	0.0726398	<i>i</i>	1.12931	-0.26317893	+0.28030572		
<i>P</i>	4.95	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 10	910	0.5+	0.2-	1998 11 23	691	0.8-	1.0-	2000 02 01	691	0.8-	0.2+
1998 11 11	910	0.3+	0.2-	1998 12 15	910	0.5-	0.6+	2000 02 01	691	0.7-	0.2+
1998 11 11	910	0.7+	0.5-	1998 12 15	910	0.5-	0.8+	2000 02 07	691	0.1+	0.5-
1998 11 19	910	0.9+	0.0	1998 12 15	910	0.1-	0.6+	2000 02 07	691	0.0	0.6-
1998 11 19	910	0.9+	0.2-	1998 12 16	910	0.0	1.0+	2000 02 07	691	0.2+	0.5-
1998 11 19	910	0.5+	0.1-	1998 12 16	910	0.4-	0.4+	2000 02 25	012	0.4-	0.3+
1998 11 23	691	0.7-	0.8-	1998 12 16	910	0.6-	0.7+	2000 02 25	012	0.8+	0.8+
1998 11 23	691	0.6-	0.8-	2000 02 01	691	0.5-	0.0	2000 02 25	012	1.2+	0.3-

1998 VS₃₄

Id. E. Howell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24017100	ω	247.95694	+0.44567600	-0.89496218		
<i>a</i>	2.5632384	Ω	175.41939	+0.88623429	+0.43788682		
<i>e</i>	0.1153892	<i>i</i>	14.78953	+0.12633956	+0.08542734		
<i>P</i>	4.10	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 15	104	0.8+	1.2+	1998 11 20	610	0.0	0.4-	1999 02 18	104	0.3+	0.5-
1998 11 16	104	0.3+	0.4+	1998 11 20	610	0.0	0.7-	1999 02 18	104	1.2+	0.2-
1998 11 16	104	0.7+	0.1-	1998 12 06	104	0.5+	0.8+	2000 04 07	699	0.5+	0.1+
1998 11 16	104	0.4+	0.5-	1998 12 06	104	0.2-	1.1+	2000 04 07	699	0.5+	0.5-
1998 11 17	610	0.9+	1.8-	1998 12 07	104	0.3+	0.4+	2000 04 07	699	0.7+	0.1-
1998 11 18	610	0.2+	1.1-	1998 12 07	104	0.2+	0.6+	2000 04 07	699	0.3+	0.3-
1998 11 18	610	0.4-	0.6-	1998 12 19	704	0.8-	0.6+	2000 04 09	699	0.2+	0.1+
1998 11 18	610	0.8-	0.2-	1998 12 19	704	0.5-	0.5+	2000 04 09	699	1.0-	0.2-
1998 11 18	610	0.8-	0.0	1998 12 19	704	1.0-	0.5+	2000 04 09	699	0.4-	0.4+
1998 11 20	610	0.0	0.2+	1998 12 19	704	0.5-	0.7+	2000 04 09	699	0.7-	0.4+
1998 11 20	610	0.1+	0.1-	1998 12 19	704	0.4-	0.5-				
1998 11 20	610	0.0	0.2-	1999 02 18	104	0.1+	0.6-				

1998 VX₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	89.12292		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.21151845	ω	208.83203	+0.33482457	-0.93726622
a	2.7897838	Ω	221.81432	+0.89005310	+0.34840711
e	0.2743736	i	8.37253	+0.30935091	+0.01202171
P	4.66	H	14.6	G 0.15	U 4

2000 APR. 18

M.P.C. 40041

1998 11 10	704	0.0	0.6+	1998 11 18	399	1.3+	0.0	1999 01 07	699	0.8+	0.3-
1998 11 10	704	0.6-	0.7+	1998 11 18	399	0.9-	1.1-	2000 03 27	699	0.6+	0.2+
1998 11 10	704	1.3-	0.7+	1998 11 19	399	1.6-	0.5-	2000 03 27	699	0.2-	0.3-
1998 11 11	699	0.4-	0.6+	1998 11 19	399	1.0-	0.3+	2000 03 27	699	1.0-	0.0
1998 11 11	699	0.2-	0.6+	1998 11 21	704	0.4+	0.2+	2000 03 27	699	0.0	0.9+
1998 11 11	699	0.1+	0.8+	1998 11 21	704	0.4+	0.5-	2000 04 07	704	0.4+	0.6-
1998 11 12	399	0.5+	0.0	1998 11 21	704	0.1-	0.0	2000 04 07	704	0.4+	0.1-
1998 11 12	399	0.3-	0.6-	1998 11 21	704	1.4+	0.3+	2000 04 07	704	0.7-	0.8-
1998 11 18	704	0.5+	0.2-	1998 11 21	704	0.6+	1.0+	2000 04 07	704	0.5+	0.5+

1998 VP₃₅ = 2000 FQ₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	87.61366	(2000.0)	
<i>n</i>	0.21487620	ω	16.98802
<i>a</i>	2.7606446	Ω	68.63683
<i>e</i>	0.1304918	<i>i</i>	10.10632
<i>P</i>	4.59	<i>H</i>	13.5

Residuals in seconds of arc

1998 11 04	327	0.3+	0.1+	1998 12 14	704	0.7+	0.7-	2000 03 29	704	0.5-	0.2-
1998 11 04	327	0.1+	0.0	1998 12 17	704	0.4-	0.4+	2000 04 05	704	0.2-	0.5-
1998 11 04	327	0.5-	0.3-	1998 12 17	704	0.0	0.6+	2000 04 05	704	0.5+	0.7-
1998 11 09	327	0.3+	0.2-	1998 12 17	704	0.3-	0.0	2000 04 05	704	0.4+	0.1-
1998 11 09	327	0.1+	0.1-	1998 12 17	704	0.3-	0.0	2000 04 05	704	1.2-	0.1+
1998 11 09	327	0.3-	0.3-	1998 12 17	704	0.1+	0.4+	2000 04 05	704	0.6+	0.5-
1998 12 09	327	0.5-	0.2+	1998 12 17	327	0.3-	0.5+	2000 04 08	704	0.4+	0.2+
1998 12 09	327	0.2-	0.2-	1998 12 17	327	0.3-	0.1+	2000 04 08	704	0.0	0.2+
1998 12 09	327	0.0	0.0	1998 12 17	327	0.0	0.6+	2000 04 08	704	0.7+	1.1+
1998 12 11	411	0.3+	0.9+	1999 01 08	704	1.5-	0.8-	2000 04 10	608	0.5-	0.4+
1998 12 11	411	0.7-	1.2+	1999 01 08	704	1.6+	1.4-	2000 04 10	608	0.6-	0.5+
1998 12 12	411	0.3+	0.3-	1999 01 08	704	0.8+	1.5-	2000 04 10	608	0.8-	0.2+
1998 12 12	411	0.1-	0.1+	1999 01 08	704	0.5+	1.5+	2000 04 13	704	0.0	0.1-
1998 12 14	704	0.6+	0.1+	2000 03 29	704	0.3+	0.7-	2000 04 13	704	0.2+	0.5+
1998 12 14	704	0.1+	0.7+	2000 03 29	704	0.4+	0.2-	2000 04 13	704	0.1-	0.1-
1998 12 14	704	0.2-	0.2-	2000 03 29	704	0.0	0.5+	2000 04 13	704	0.4-	0.5-
1998 12 14	704	0.2-	1.4-	2000 03 29	704	0.2+	0.2-	2000 04 13	704	0.6+	0.4+

1998 WR = 1950 TO₃ = 2000 FV₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	149.43784	(2000.0)	
<i>n</i>	0.22740049	ω	311.55918
<i>a</i>	2.6583273	Ω	61.91363
<i>e</i>	0.1744650	<i>i</i>	13.95242
<i>P</i>	4.33	<i>H</i>	12.3

Residuals in seconds of arc

1950 10 13	760	0.5-	0.8+	1998 12 17	704	(0.7+	2.6-)	2000 03 28	704	0.5-	0.2-
1998 11 18	704	1.2+	0.9-	1998 12 17	704	0.2-	1.9-	2000 03 28	704	0.2-	0.0
1998 11 18	704	0.6+	1.7-	1999 01 08	704	0.8+	0.8+	2000 03 28	704	0.0	0.6+
1998 11 18	704	0.9-	0.3-	1999 01 08	704	0.9+	0.3+	2000 03 29	704	0.0	0.0
1998 11 18	704	(5.1-	0.5-)	1999 01 08	704	0.8-	0.6-	2000 03 29	704	0.1-	0.4+
1998 11 19	046	0.5+	0.6+	1999 01 08	704	1.7+	0.4-	2000 03 29	704	0.0	0.1+
1998 11 19	046	0.8+	0.6+	1999 01 08	704	1.5-	0.5+	2000 03 29	704	0.1-	0.5+
1998 11 19	046	0.4+	0.6+	2000 01 07	704	0.4+	0.0	2000 03 29	704	0.0	0.4+
1998 11 19	046	0.5+	0.9+	2000 01 07	704	0.7+	0.3-	2000 04 04	704	0.2+	0.5+
1998 11 19	734	0.5+	0.3+	2000 01 07	704	0.1+	0.4-	2000 04 04	704	0.2+	0.2+
1998 11 19	734	0.6+	0.6+	2000 01 07	704	0.1+	0.3-	2000 04 04	704	0.6+	0.0
1998 11 19	734	0.3+	0.3+	2000 01 07	704	0.3+	0.9-	2000 04 04	704	0.3+	0.0
1998 11 19	704	0.0	0.5+	2000 02 03	704	0.4+	0.9-	2000 04 04	704	0.5+	0.1+
1998 11 19	704	0.4+	0.4+	2000 02 03	704	0.3+	0.7-	2000 04 07	608	0.1+	0.5-
1998 11 19	704	0.0	1.9-	2000 02 03	704	0.7+	0.1-	2000 04 07	608	0.1-	0.2-
1998 11 19	704	0.4-	0.4-	2000 02 03	704	0.3+	0.3+	2000 04 07	608	0.0	0.4-
1998 11 19	704	0.5-	0.0	2000 02 03	704	0.6-	0.5+	2000 04 08	704	1.4-	0.5+
1998 12 11	411	1.7-	1.1+	2000 03 05	704	(5.0+	0.8+)	2000 04 08	704	0.4-	0.1-
1998 12 11	411	1.5-	1.3+	2000 03 05	704	(4.9+	0.0)	2000 04 08	704	0.4-	0.9-
1998 12 12	411	0.6-	0.3+	2000 03 05	704	(3.9+	0.9+)	2000 04 08	704	0.1-	0.8-

1998 12 12	411	1.1-	0.3+	2000 03 05	704	(3.4+	0.7+)	2000 04 08	704	0.7-	0.7-
1998 12 14	704	1.3-	0.2+	2000 03 12	704	0.3-	0.1+	2000 04 13	704	0.1+	0.6+
1998 12 14	704	1.2+	0.6-	2000 03 12	704	0.2-	0.4+	2000 04 13	704	0.1+	0.3+
1998 12 14	704	0.4+	1.6-	2000 03 12	704	0.1-	0.6+	2000 04 13	704	0.0	0.2+
1998 12 17	704	(0.8-	4.6-)	2000 03 12	704	0.3+	0.3+	2000 04 13	704	0.3+	0.6+
1998 12 17	704	(0.1-	2.3-)	2000 03 28	704	0.1-	0.3+	2000 04 13	704	0.2+	0.0

1998 WP₁ = 2000 FL₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	97.11544	(2000.0)	
<i>n</i>	0.18992214	ω	334.82086
<i>a</i>	2.9974526	Ω	91.61681
<i>e</i>	0.0759886	<i>i</i>	10.89127
<i>P</i>	5.19	<i>H</i>	13.1

Residuals in seconds of arc

1998 11 18	411	0.1+	0.1+	1998 12 22	704	1.6-	1.7+	2000 03 28	704	0.7-	0.1+
1998 11 18	411	0.4-	0.5+	1998 12 22	411	0.2-	0.0	2000 03 28	704	0.6+	0.2+
1998 11 19	411	0.0	1.1-	1998 12 22	411	0.0	0.4-	2000 03 28	704	0.4+	0.3+
1998 11 19	411	0.8-	0.3+	2000 03 05	704	0.1+	0.5-	2000 03 29	704	0.2-	0.1-
1998 11 25	411	0.4+	0.8+	2000 03 05	704	0.5+	0.1-	2000 03 29	704	0.3+	0.1-
1998 11 25	411	0.6+	0.2+	2000 03 05	704	0.2-	0.0	2000 03 29	704	0.3-	0.1-
1998 12 13	411	0.6-	0.6-	2000 03 05	704	0.4-	0.3+	2000 03 29	704	0.3-	0.2-
1998 12 13	411	0.3+	0.3-	2000 03 05	704	0.4-	0.4+	2000 04 04	704	0.7-	0.0
1998 12 15	704	(1.1-	2.0-)	2000 03 12	704	0.2-	0.2+	2000 04 04	704	0.2-	1.0-
1998 12 15	704	1.0+	0.2-	2000 03 12	704	0.1-	0.3+	2000 04 04	704	0.4-	0.1-
1998 12 15	704	0.5-	0.1-	2000 03 12	704	1.2+	0.2-	2000 04 04	704	0.9+	0.2+
1998 12 15	704	0.1+	0.9-	2000 03 12	704	0.1+	0.7+	2000 04 04	704	0.5-	0.9-
1998 12 21	411	0.5+	0.2-	2000 03 12	704	0.5+	0.6+	2000 04 08	704	1.0-	0.8+
1998 12 21	411	1.1+	1.5-	2000 03 26	699	0.7-	0.2-	2000 04 08	704	0.6-	0.4+
1998 12 22	704	0.7+	0.4+	2000 03 26	699	0.3-	0.0	2000 04 08	704	0.0	0.1+
1998 12 22	704	0.5-	0.5+	2000 03 26	699	1.4+	0.3-	2000 04 08	704	1.6+	0.5-
1998 12 22	704	(1.9+	3.3+)	2000 03 26	699	0.2-	0.4-				
1998 12 22	704	0.3-	0.7+	2000 03 28	704	0.1-	0.3-				

1998 WQ₂ = 2000 GO₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	71.19585	(2000.0)	
<i>n</i>	0.21377733	ω	246.83596
<i>a</i>	2.7700968	Ω	211.31702
<i>e</i>	0.2515886	<i>i</i>	10.16446
<i>P</i>	4.61	<i>H</i>	14.6

Residuals in seconds of arc

1998 11 11	699	(2.8- 0.2+)	1998 11 19	610	1.5+ 0.8-	1998 12 05	610	0.4- 0.3+
1998 11 11	699	0.7- 0.1-	1998 11 28	610	(3.0- 1.2-)	1998 12 05	104	0.2- 0.6+
1998 11 11	699	0.2- 0.5-	1998 11 28	610	(2.1- 0.6-)	1998 12 05	104	0.1+ 0.5+
1998 11 17	610	0.8+ 0.2+	1998 11 28	610	1.9- 0.4-	1998 12 11	699	0.4+ 0.3+
1998 11 17	610	0.5+ 0.4+	1998 11 28	104	0.4- 1.2+	1998 12 11	699	0.4- 0.1-
1998 11 17	610	0.0 0.6+	1998 11 28	610	1.2- 0.1+	1998 12 11	699	0.3+ 0.0
1998 11 17	610	0.2- 0.7+	1998 11 28	104	0.2+ 0.3+	1999 02 04	704	0.1+ 0.6+
1998 11 17	610	0.6- 1.0+	1998 11 28	610	0.8- 0.3+	1999 02 04	704	0.5+ 0.3-
1998 11 18	704	0.2- 0.9-	1998 11 28	104	0.4+ 0.1-	1999 02 04	704	1.0+ 1.3-
1998 11 18	704	(0.5- 2.7-)	1998 11 28	104	1.1+ 1.5+	1999 02 04	704	1.0- 0.1-
1998 11 18	704	(1.5- 2.8-)	1998 11 28	104	0.4- 0.3-	2000 04 11	691	0.2+ 0.0
1998 11 18	704	(0.0 3.1-)	1998 11 29	104	0.6+ 0.7+	2000 04 11	691	0.3+ 0.2+
1998 11 19	610	0.3+ 0.2-	1998 12 05	610	0.6- 1.3-	2000 04 11	691	0.1- 0.2+
1998 11 19	610	0.7+ 0.4-	1998 12 05	610	0.6- 0.8-	2000 04 13	691	0.1- 0.0
1998 11 19	610	1.0+ 0.5-	1998 12 05	610	0.5- 0.3-	2000 04 13	691	0.2- 0.0
1998 11 19	610	1.2+ 0.6-	1998 12 05	610	0.4- 0.1+	2000 04 13	691	0.0 0.1+

1998 WY₂ = 2000 EZ₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 353.04644		(2000.0)		P		Q	
<i>n</i>	0.19088807	<i>ω</i>	99.88918	−0.96133727	−0.26952812		
<i>a</i>	2.9873323	<i>Ω</i>	64.49268	+0.22174248	−0.87920144		
<i>e</i>	0.1253445	<i>i</i>	3.58522	+0.16328175	−0.39288602		
<i>P</i>	5.16	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 14	691	1.6−	0.1−	2000 02 01	703	0.1+	1.0−	2000 03 05	704	0.2−	0.9−
1998 11 14	691	0.2+	1.4+	2000 02 01	703	1.0−	0.8+	2000 03 05	704	0.5−	0.5−
1998 11 14	691	1.5−	0.5−	2000 02 11	704	1.2+	0.3−	2000 03 05	704	0.3+	0.5−
1998 11 16	691	0.1−	0.6−	2000 02 11	704	1.0+	0.9+	2000 03 05	704	0.1−	0.8−
1998 11 16	691	0.1−	0.1−	2000 02 11	704	1.0+	0.3−	2000 03 05	704	0.3−	0.8−
1998 11 16	691	0.1−	0.3−	2000 02 11	704	0.3+	0.7+	2000 03 11	699	0.0	0.4−
1998 11 17	910	0.7+	0.1−	2000 02 11	704	0.8+	0.9+	2000 03 11	699	0.4−	0.4+
1998 11 17	910	0.4+	0.1−	2000 02 11	704	0.1−	0.3+	2000 03 11	699	0.4−	0.2+
1998 11 18	910	0.7+	0.3−	2000 02 11	704	0.1+	0.5+	2000 03 11	699	0.9+	0.7+
1998 11 19	910	0.7+	0.2+	2000 02 11	704	0.9−	0.9+	2000 03 12	704	0.4−	0.4−
1998 11 19	910	0.4+	0.0	2000 02 25	703	0.4−	0.1−	2000 03 12	704	0.2−	0.6−
1998 11 19	910	0.3+	0.2+	2000 02 25	703	0.9+	0.6+	2000 03 12	704	1.1−	0.7−
2000 02 01	703	0.6−	0.2−	2000 02 25	703	0.1−	0.0	2000 03 12	704	0.2+	0.5+
2000 02 01	703	0.0	0.0	2000 02 25	703	(6.1+	5.1+)				

1998 WP₃

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 100.32690		(2000.0)		P		Q	
<i>n</i>	0.19622828	<i>ω</i>	330.94785	+0.19443653	−0.97940895		
<i>a</i>	2.9328847	<i>Ω</i>	107.79633	+0.91063621	+0.15963869		
<i>e</i>	0.0598121	<i>i</i>	3.27154	+0.36460407	+0.12358640		
<i>P</i>	5.02	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc											
1995 04 24	691	0.8−	1.6−	2000 03 27	699	0.1−	0.6+	2000 04 07	699	0.0	0.3−
1995 04 24	691	0.4−	1.3−	2000 03 27	699	0.5−	0.3+	2000 04 07	704	0.4+	0.2+
1995 04 24	691	0.5−	1.0−	2000 03 27	699	0.2+	0.4+	2000 04 07	704	0.3+	0.1−
1998 11 19	411	0.5+	0.2+	2000 03 29	704	0.1−	0.1−	2000 04 07	699	0.2−	0.3+
1998 11 19	411	0.8+	0.3−	2000 03 29	704	0.6+	0.9−	2000 04 07	704	0.3+	0.6−
1998 11 20	411	1.0−	0.6+	2000 03 29	704	0.4+	0.5−	2000 04 07	704	0.3+	0.8+
1998 11 20	411	0.1+	0.6−	2000 03 29	704	0.1+	0.3−	2000 04 07	704	0.2+	0.1−
1998 11 28	411	0.3−	0.4−	2000 03 29	704	0.0	0.5−	2000 04 08	704	0.2+	0.1+
1998 11 28	411	0.3+	0.2+	2000 04 02	699	0.1+	0.1+	2000 04 08	704	0.3+	0.1−
1998 12 15	704	0.8+	0.9+	2000 04 02	699	0.5−	0.4−	2000 04 08	704	0.0	0.2+
1998 12 15	704	0.6+	0.5−	2000 04 02	699	0.3+	0.1+	2000 04 08	704	0.9+	0.6−
1998 12 15	704	1.0−	0.8−	2000 04 02	699	0.4−	0.0	2000 04 08	704	0.9+	0.0
1998 12 15	704	1.0+	1.2+	2000 04 03	699	0.7−	0.3+	2000 04 08	704	0.3+	0.1+
1998 12 15	704	0.4+	0.2−	2000 04 03	699	0.0	0.1−	2000 04 08	704	1.1−	0.6−
1998 12 16	411	0.6−	0.6+	2000 04 03	699	0.7−	0.2+	2000 04 08	704	0.0	0.3+
1998 12 16	411	0.1+	0.7+	2000 04 03	699	0.7−	0.3+	2000 04 08	704	0.3+	0.7+
1998 12 22	704	0.4+	0.3−	2000 04 04	704	0.6−	0.5+	2000 04 08	704	0.1+	0.3−
1998 12 22	704	0.0	0.9−	2000 04 04	704	0.1−	0.6+	2000 04 08	704	0.6+	1.5+
1998 12 22	704	0.1−	0.3−	2000 04 04	704	0.4−	0.4−	2000 04 08	704	0.9+	0.7+
1998 12 22	704	0.3−	0.6−	2000 04 04	704	0.1−	0.2+	2000 04 08	704	0.2−	0.2−
1998 12 26	411	0.9−	0.6+	2000 04 04	704	1.0+	0.4+	2000 04 08	704	0.3+	0.7+
1998 12 26	411	0.7−	0.3−	2000 04 06	699	0.4−	0.5+	2000 04 08	704	0.1−	0.2−
2000 03 08	704	0.5−	1.1−	2000 04 06	699	0.2+	0.1+	2000 04 10	704	0.3−	0.7+
2000 03 08	704	(0.2+	3.1−)	2000 04 06	699	0.5+	0.3+	2000 04 10	704	0.3+	0.6+
2000 03 08	704	0.0	0.1−	2000 04 06	699	0.1−	0.2−	2000 04 10	704	0.4−	0.8+
2000 03 08	704	1.0+	0.7−	2000 04 07	699	0.3+	0.4−	2000 04 10	704	0.2−	0.0
2000 03 27	699	0.4−	0.2+	2000 04 07	699	0.8−	0.4−	2000 04 10	704	0.2+	0.1−

1998 WT₃ = 2000 EZ₁₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 152.97189		(2000.0)		P		Q	
<i>n</i>	0.26749273	<i>ω</i>	319.73184	+0.94535032	−0.28917363		
<i>a</i>	2.3855841	<i>Ω</i>	57.69566	+0.32568092	+0.81528415		
<i>e</i>	0.1980046	<i>i</i>	10.26618	+0.01564300	+0.50168751		
<i>P</i>	3.68	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 31	704	0.6+	0.8+	1998 11 18	704	(0.5−	2.9−)	1999 01 06	699	0.4−	0.2+
1998 08 31	704	0.9−	0.3−	1998 11 18	399	1.6−	0.2+	2000 03 11	703	1.1+	0.0
1998 08 31	704	(0.2+	2.4+)	1998 11 18	399	1.2−	0.9+	2000 03 11	703	0.6−	0.0
1998 08 31	704	0.3+	0.1+	1998 11 19	399	1.3−	0.5+	2000 03 11	703	0.1+	0.2+
1998 10 27	910	0.1−	0.8−	1998 11 19	399	0.9−	0.5−	2000 03 11	703	0.3−	0.1−
1998 10 27	910	0.3−	0.8−	1998 11 21	704	0.0	0.4−	2000 03 12	704	0.2+	0.4−
1998 10 27	910	0.2−	0.1−	1998 11 21	704	1.1+	1.0−	2000 03 12	704	0.9+	0.1+
1998 11 01	327	0.2−	0.1+	1998 11 21	704	0.4+	0.3−	2000 03 12	704	0.0	0.6+
1998 11 01	327	0.3−	0.3+	1998 11 21	704	(2.2+	1.5−)	2000 03 12	704	1.2+	1.1+
1998 11 01	327	0.2−	0.2+	1998 11 21	704	(2.8+	0.5−)	2000 03 29	704	0.7+	0.9−
1998 11 02	327	0.4−	0.3+	1998 11 24	704	0.9+	0.2−	2000 03 29	704	0.4−	0.7−
1998 11 02	327	0.3−	0.3+	1998 11 24	704	1.0+	0.7−	2000 03 29	704	0.4−	0.5−
1998 11 02	327	0.1−	0.2+	1998 11 24	704	0.9+	0.3−	2000 03 29	704	0.7−	0.1+
1998 11 10	704	0.1+	0.3+	1998 11 24	704	0.3+	1.1−	2000 03 29	704	0.7−	0.2−
1998 11 10	704	0.5+	0.3+	1998 11 24	704	0.8−	1.0−	2000 04 03	704	0.1−	0.0
1998 11 10	704	1.0+	1.6+	1998 12 10	399	(2.4+	0.5−)	2000 04 03	704	0.3−	0.4+
1998 11 10	704	0.4−	0.0	1998 12 10	399	0.8+	0.9+	2000 04 03	704	0.6−	0.4+
1998 11 11	704	0.4+	0.9+	1998 12 14	704	0.3−	0.2+	2000 04 03	704	0.1+	0.0
1998 11 11	704	0.3+	0.4−	1998 12 14	704	0.6−	0.1+	2000 04 03	704	0.1−	0.8−
1998 11 12	399	1.5+	0.4−	1998 12 14	704	0.3−	0.7+	2000 04 08	704	0.5−	0.3+
1998 11 18	704	0.1−	0.3−	1998 12 14	704	0.4+	0.7+	2000 04 08	704	0.3−	0.4−
1998 11 18	704	0.5+	1.6−	1998 12 14	704	0.8−	1.3+	2000 04 08	704	0.2+	0.5+
1998 11 18	704	(1.2+	3.1−)	1999 01 06	699	0.2+	0.6−	2000 04 08	704	0.6+	0.1+
1998 11 18	704	(1.4+	3.4−)	1999 01 06	699	0.2+	0.2−	2000 04 08	704	(0.8−	2.1−)

1998 WX₃ = 2000 EU₁₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	137.84394		(2000.0)			P		Q		
<i>n</i>	0.22811424	<i>ω</i>	285.72427			+0.97412775		+0.03012925		
<i>a</i>	2.6527793	<i>Ω</i>	72.96245			+0.07586936		+0.88996021		
<i>e</i>	0.3104498	<i>i</i>	13.54811			−0.21288254		+0.45504181		
<i>P</i>	4.32	<i>H</i>	13.8		<i>G</i>	0.15		<i>U</i>	3	
Residuals in seconds of arc										
1998 10 19	699	0.8+	0.1−	1998 11 21	704	0.1−	1.0+	1999 01 06	699	0.5+ 0.0
1998 10 19	699	0.1+	0.4−	1998 11 21	704	1.1−	1.4+	1999 01 08	704	0.2− 0.9−
1998 10 19	699	0.6+	0.3−	1998 11 21	704	0.6−	1.5+	1999 01 08	704	(0.9+ 2.5+)
1998 11 10	704	0.4−	0.5−	1998 11 24	704	0.4−	0.4+	1999 01 08	704	0.2+ 0.2−
1998 11 10	704	0.2+	0.2−	1998 11 24	704	0.4−	0.5+	1999 01 08	704	(0.5− 2.9+)
1998 11 10	704	0.5−	1.0+	1998 11 24	704	0.4−	1.1−	1999 01 22	699	0.5− 0.1−
1998 11 10	704	0.7+	1.5+	1998 11 24	704	0.1−	0.9−	1999 01 22	699	0.1− 0.4−
1998 11 11	704	0.1+	0.3−	1998 11 24	704	0.6−	0.2−	1999 01 22	699	0.7− 0.2−
1998 11 11	704	0.8−	1.7−	1998 12 08	699	0.3−	0.4−	2000 01 31	704	0.5+ 0.2+
1998 11 11	704	0.9+	1.1+	1998 12 08	699	0.1−	0.4−	2000 01 31	704	0.4− 1.1−
1998 11 11	704	0.7−	1.1−	1998 12 08	699	0.1−	0.2−	2000 01 31	704	1.2+ 0.2−
1998 11 11	699	0.0	0.0	1998 12 12	691	0.5−	0.1+	2000 03 04	704	1.4− 0.4−
1998 11 11	704	1.1−	0.5+	1998 12 12	691	0.6−	0.6+	2000 03 04	704	1.3− 0.3+
1998 11 11	699	0.8−	0.1+	1998 12 12	691	0.3−	0.1−	2000 03 04	704	0.7− 0.3+
1998 11 11	699	0.5+	0.3−	1998 12 15	910	0.6+	0.3+	2000 03 11	699	0.7+ 0.8+
1998 11 18	704	0.5+	0.5+	1998 12 15	910	0.5+	0.3+	2000 03 11	699	1.1+ 0.2−
1998 11 18	704	0.4−	0.6−	1998 12 15	910	0.5+	0.2+	2000 03 11	699	0.2− 0.6+
1998 11 18	704	0.5+	1.8−	1998 12 16	910	1.3+	0.1+	2000 03 11	699	0.6+ 0.3+
1998 11 18	704 (1.6+ 2.5−)			1998 12 16	910	1.3+	0.1+	2000 03 12	704	0.5− 0.1−
1998 11 18	704 (0.5+ 2.3−)			1998 12 16	910	1.3+	0.1+	2000 03 12	704	0.0 0.6+
1998 11 21	704	0.1+	0.1+	1999 01 06	699	0.6+	0.0	2000 03 12	704	0.2+ 0.2−
1998 11 21	704	0.2+	0.2−	1999 01 06	699	0.1+	0.7+	2000 03 12	704	0.2+ 0.8−

2000 APR. 18

M.P.C. 40043

1998 WD₅ = 2000 GH₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	135.80554		(2000.0)	P		Q	
<i>n</i>	0.27274820	ω	235.96443	+0.73701890	−0.67580332		
<i>a</i>	2.3548403	Ω	166.54343	+0.63296105	+0.68515175		
<i>e</i>	0.2115247	<i>i</i>	2.37529	+0.23698831	+0.27176634		
<i>P</i>	3.61	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 11	704	0.3−	0.5+	1998 11 21	704	0.4+	0.3−	1998 11 26	684	0.1+	0.0
1998 11 11	704	0.3−	0.9−	1998 11 21	704	0.0	0.7−	1998 11 26	684	0.3+	0.1−
1998 11 11	704	0.5+	1.7−	1998 11 21	704	0.1+	0.6−	1998 11 27	684	0.5+	0.2−
1998 11 11	699	0.6−	0.5+	1998 11 21	704	0.4−	1.3−	1998 11 27	684	0.6+	0.0
1998 11 11	704	0.8+	0.5+	1998 11 21	704	1.4−	1.2−	1998 11 29	900	1.2−	0.3−
1998 11 11	699	0.5+	0.3−	1998 11 23	860	1.2−	0.4+	1998 11 29	900	0.9+	0.2−
1998 11 11	699	0.3−	0.7+	1998 11 23	860	0.1+	0.2−	2000 04 05	704	0.3+	0.2+
1998 11 18	704	0.0	0.3−	1998 11 23	699	0.9+	0.8+	2000 04 05	704	1.3+	0.5+
1998 11 18	704	0.2−	0.2+	1998 11 23	699	0.4+	0.4+	2000 04 05	704	1.0−	0.4−
1998 11 18	704	0.4−	1.7+	1998 11 23	699	0.1−	0.8+	2000 04 05	704	1.2−	0.6−
1998 11 18	704	(0.2+	2.8+)	1998 11 24	704	0.5+	0.7+	2000 04 06	704	0.5−	0.4+
1998 11 18	704	0.4+	1.0+	1998 11 24	704	0.6−	0.4+	2000 04 06	704	0.9+	0.3+
1998 11 20	860	(3.8+	1.7−)	1998 11 24	704	0.8−	0.0	2000 04 06	704	0.0	0.9−
1998 11 20	860	1.0+	0.3−	1998 11 24	704	(2.2−	1.2+)	2000 04 06	704	0.3+	0.3+
1998 11 20	860	(2.2+	0.7+)	1998 11 24	704	(3.3−	1.0+)				

1998 WD₆ = 1994 BQ₅ = 2000 EM₁₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.07576		(2000.0)	P		Q	
<i>n</i>	0.18589124	ω	63.01384	+0.21193874	−0.97707607		
<i>a</i>	3.0406289	Ω	14.79159	+0.86640670	+0.17833489		
<i>e</i>	0.1723481	<i>i</i>	4.51729	+0.45212984	+0.11627130		
<i>P</i>	5.30	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 01 17	033	0.4+	0.3−	1998 11 21	704	1.0−	0.0	2000 03 11	699	0.6−	0.5−
1994 01 18	033	0.6−	0.2+	1998 11 21	704	0.6+	0.4−	2000 03 11	699	0.1−	0.1+
1994 01 19	033	0.2+	0.1−	1998 12 14	704	0.3+	0.2+	2000 03 12	704	0.3−	0.4−
1998 11 18	704	0.6+	0.1+	1998 12 14	704	0.1+	0.4+	2000 03 12	704	0.1+	1.1+
1998 11 18	704	0.5+	0.1+	1998 12 14	704	(2.4+	0.3−)	2000 03 12	704	0.5+	0.1+
1998 11 18	704	0.2+	0.4+	1998 12 14	704	0.1−	0.5−	2000 03 12	704	0.4+	1.0+
1998 11 18	704	1.6−	0.7−	1998 12 14	704	0.1+	0.8+	2000 03 12	704	0.4+	1.8+
1998 11 18	704	0.2+	1.1+	2000 03 02	703	0.0	0.3−	2000 03 14	608	0.2+	0.5−
1998 11 18	399	1.3+	0.9−	2000 03 02	703	0.1+	0.4−	2000 03 14	608	0.1+	0.2+
1998 11 18	399	1.0+	0.4+	2000 03 02	703	0.7−	0.5−	2000 03 14	608	0.1+	0.9−
1998 11 19	399	(2.5−	0.9−)	2000 03 02	703	0.1+	0.4−	2000 04 02	699	0.1−	0.2+
1998 11 19	399	1.7−	0.1+	2000 03 03	704	0.3−	0.0	2000 04 02	699	0.1−	0.3−
1998 11 20	699	0.0	0.7+	2000 03 03	704	0.2+	0.0	2000 04 02	699	0.6−	0.8+
1998 11 20	699	0.3−	0.6+	2000 03 03	704	0.6+	0.3+	2000 04 02	699	0.1−	0.3+
1998 11 20	699	0.1+	0.3+	2000 03 03	704	0.0	0.6+	2000 04 06	704	0.0	0.2−
1998 11 21	704	0.4+	0.3−	2000 03 03	704	0.2−	0.5+	2000 04 06	704	0.3+	1.6−
1998 11 21	704	0.4+	0.3−	2000 03 11	699	0.2−	0.1−	2000 04 06	704	0.2+	0.2−
1998 11 21	704	1.3−	1.9−	2000 03 11	699	0.2−	0.7−				

1998 WW₆

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.36858		(2000.0)	P		Q	
<i>n</i>	0.23030291	ω	34.02975	+0.24101792	+0.94227384		
<i>a</i>	2.6359455	Ω	250.87831	−0.93619517	+0.16259325		
<i>e</i>	0.1187013	<i>i</i>	14.24203	−0.25582996	+0.29271734		
<i>P</i>	4.28	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 24	747	0.1−	0.4+	1998 12 08	747	1.1+	0.4−	2000 01 28	704	0.1+	0.1−
1998 11 24	747	0.1−	0.3+	1998 12 14	747	1.0−	0.2+	2000 01 28	704	0.1+	0.7−

1998 11 25	747	0.1+	0.1+	1998 12 14	747	0.1+	0.6+	2000 01 28	704	0.7−	0.7+
1998 11 25	747	0.4−	0.2−	1998 12 14	747	0.2+	0.1−	2000 04 07	704	0.8+	0.6−
1998 11 25	747	0.6−	0.2+	1998 12 15	704	0.3−	0.2+	2000 04 07	704	0.2+	0.2−
1998 11 27	747	0.0	0.1+	1998 12 15	704	0.5+	0.2+	2000 04 07	704	0.4+	0.3−
1998 11 27	747	0.0	0.2+	1998 12 15	704	0.1−	0.0	2000 04 07	704	0.5−	0.4−
1998 11 29	747	0.2−	0.1+	1998 12 15	704	0.4−	0.7−	2000 04 08	699	0.1−	0.2+
1998 11 29	747	0.0	0.4−	1998 12 17	747	0.1+	0.9+	2000 04 08	699	0.1−	0.1+
1998 12 08	747	0.6+	0.4−	1998 12 17	747	0.0	0.0	2000 04 08	699	0.4−	0.8+
1998 12 08	747	0.2+	0.7−	2000 01 28	704	0.8+	0.1−	2000 04 08	699	0.3−	0.5+
1998 12 08	747	0.3+	0.6−	2000 01 28	704	0.1−	0.2+				

1998 WA₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.55571		(2000.0)	P		Q	
<i>n</i>	0.18812491	ω	234.12051	+0.39784053	+0.90167368		
<i>a</i>	3.0165128	Ω	60.17087	−0.76618387	+0.42811455		
<i>e</i>	0.0782686	<i>i</i>	11.26276	−0.50466344	+0.06084822		
<i>P</i>	5.24	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 06 15	566	0.1−	0.6−	1998 11 20	699	0.5−	0.2−	1999 11 09	703	0.4+	0.3+
1996 06 15	566	0.5−	0.6−	1998 11 21	704	0.7−	0.4+	2000 01 03	704	0.3−	0.2−
1996 06 15	566	0.6−	1.1−	1998 11 21	704	0.1+	0.1−	2000 01 03	704	0.5−	0.4−
1998 10 13	910	0.0	0.4+	1998 11 21	704	0.0	0.5−	2000 01 03	704	0.2−	0.4−
1998 10 13	910	0.1−	0.4+	1998 11 21	704	0.1−	0.6−	2000 01 03	704	0.5−	0.0
1998 10 13	910	0.0	0.3+	1998 11 21	704	1.1+	0.8−	2000 01 03	704	0.1−	0.2+
1998 11 10	704	0.6−	0.1+	1998 11 24	704	0.8−	0.9+	2000 01 29	704	0.4−	0.3+
1998 11 10	704	0.3+	0.7+	1998 11 24	704	1.9−	0.6+	2000 01 29	704	0.1−	0.2+
1998 11 10	704	0.1+	0.2+	1998 11 24	704	0.3+	0.4+	2000 01 29	704	0.1+	0.1−
1998 11 10	704	0.6+	0.2−	1998 11 24	704	(2.1+	0.7+)	2000 01 29	704	0.2+	0.2+
1998 11 10	704	(3.4−	0.8+)	1998 11 24	704	0.9−	1.0+	2000 01 29	704	0.3+	0.4+
1998 11 18	704	0.0	0.8−	1998 12 14	704	0.3+	0.5−	2000 03 12	704	1.3−	1.6+
1998 11 18	704	0.5−	1.4−	1998 12 14	704	1.5−	1.4−	2000 03 12	704	0.1−	1.0−
1998 11 18	704	0.4+	1.0−	1998 12 14	704	(0.1+	2.2−)	2000 03 12	704	0.1+	0.4−
1998 11 18	704	1.8+	0.6−	1998 12 14	704	0.4+	1.8−	2000 03 12	704	(0.1−	2.9−)
1998 11 18	704	1.1+	0.1+	1998 12 14	704	0.8+	1.0−	2000 03 28	723	1.2+	1.8−
1998 11 18	399	0.8+	0.2−	1999 01 22	699	0.3+	0.3+	2000 03 28	723	0.2+	0.4−
1998 11 18	399	0.8+	0.1+	1999 01 22	699	0.1+	0.6+	2000 03 28	723	1.5+	0.4−
1998 11 19	399	1.2+	0.1+	1999 01 22	699	0.4−	1.2+	2000 04 03	723	0.7+	0.5−
1998 11 19	399	0.7−	0.0	1999 11 09	703	0.3−	0.3+	2000 04 03	723	(3.6+	2.3+)
1998 11 20	699	0.2−	0.5+	1999 11 09	703	0.2+	1.6+	2000 04 03	723	1.1−	1.3+
1998 11 20	699	0.2−	0.2+	1999 11 09	703	0.7+	0.2−				

1998 WO₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	153.46914		(2000.0)	P		Q	
<i>n</i>	0.26070555	ω	314.70048	+0.84827939	−0.52658022		
<i>a</i>	2.4268105	Ω	77.15052	+0.50064417	+0.76302426		
<i>e</i>	0.2067840	<i>i</i>	3.29245	+0.17256157	+0.37484297		
<i>P</i>	3.78	<i>H</i>	17.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 21	621	0.2+	0.1+	1998 12 17	621	0.4−	0.1−	1999 01 20	621	0.1+	0.3+
1998 11 21	621	0.3+	0.1+	1998 12 17	621	0.1+	0.0	1999 01 20	621	0.3+	0.3+
1998 11 21	621	0.0	0.3+	1998 12 17	621	0.1+	0.1−	1999 01 20	621	0.4+	0.6−
1998 11 22	621	0.0	0.0	1998 12 17	621	0.6−	0.1+	1999 01 20	621	0.1−	0.1−
1998 11 22	621	0.1+	0.3−	1998 12 17	621	0.2+	0.3+	1999 01 20	621	0.0	0.6+
1998 11 22	621	0.1+	0.1−	1998 12 17	621	0.2−	0.3−	1999 01 20	621	0.0	0.1+
1998 11 22	621	0.0	0.0	1999 01 06	621	0.4−	0.4+	1999 02 11	621	0.0	0.2−
1998 11 22	621	0.3−	0.2−	1999 01 06	621	0.6−	0.5+	1999 02 11	621	0.1+	0.2+
1998 11 22	621	0.3+	0.0	1999 01 06	621	0.3−	0.8+	1999 02 12	621	0.2−	0.1−
1998 11 22	621	0.2−	0.1+	1999 01 10	621	0.4−	0.5−	2000 04 06	621	0.9−	0.9+
1998 11 22	621	0.3+	0.0	1999 01 10	621	0.3+	0.3−	2000 04 07	621	0.8+	1.3−
1998 11 22	621	0.1−	0.4+	1999 01 10	621	0.6+	0.6−	2000 04 08	621	0.1+	0.4+
1998 12 17	621	0.1−	0.2−	1999 01 10	621	0.8+	0.4−				

1998 WQ₈ = 2000 FW₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26320566	ω	294.66260	+0.97524855	−0.18746789				
<i>a</i>	2.4114184	Ω	76.31530	+0.21977886	+0.88000204				
<i>e</i>	0.0847439	<i>i</i>	6.93072	−0.02423890	+0.43640830				
<i>P</i>	3.74	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 11 10	704	0.9−	0.3+	1998 12 14	747	0.4−	1.1+	2000 03 12	703	0.2−	0.0
1998 11 10	704	0.6−	1.5−	1998 12 14	747	1.0−	0.1+	2000 03 12	704	0.1−	0.6+
1998 11 10	704	0.6−	1.1−	1998 12 15	691	0.7−	0.2−	2000 03 12	704	1.0+	0.1+
1998 11 10	704	(4.6−	2.8−)	1998 12 15	691	0.6−	0.3−	2000 03 12	704	0.5+	0.3+
1998 11 27	747	0.6+	0.2+	1998 12 15	691	0.8−	0.3−	2000 03 12	704	0.1+	0.3+
1998 11 27	747	0.5+	0.5+	1998 12 17	747	0.3−	0.8−	2000 03 26	699	0.0	0.1+
1998 11 27	747	0.5+	0.5+	1998 12 17	747	1.1+	0.1+	2000 03 26	699	0.2−	0.4+
1998 11 27	747	0.5+	0.3+	1998 12 17	747	0.0	0.7−	2000 03 26	699	0.3−	0.5+
1998 11 27	747	0.3−	0.1+	1998 12 23	691	0.2+	0.2−	2000 03 26	699	0.5+	0.1−
1998 11 28	747	0.1+	0.1−	1998 12 23	691	1.3−	1.4+	2000 03 29	704	0.4−	0.0
1998 11 28	747	0.1+	0.6−	1998 12 23	691	(3.3+	0.8+)	2000 03 29	704	0.4+	0.8+
1998 11 28	747	0.0	0.6+	1999 01 06	699	1.1+	1.3−	2000 03 29	704	0.7−	0.4−
1998 11 29	747	0.2−	0.0	1999 01 06	699	0.3+	0.4−	2000 03 29	704	0.4−	0.1+
1998 11 29	747	0.7+	0.4+	1999 01 06	699	0.0	0.7−	2000 04 03	704	0.8+	0.1+
1998 12 08	747	0.7+	0.3+	1999 01 09	691	(4.7−	1.1+)	2000 04 03	704	0.9−	0.1+
1998 12 08	747	0.2+	0.3+	1999 01 09	691	(2.2−	1.4−)	2000 04 03	704	0.0	0.2−
1998 12 08	747	0.1+	0.2−	1999 01 09	691	(2.0−	3.0−)	2000 04 03	704	0.0	0.3+
1998 12 08	747	0.6+	0.7+	2000 03 05	608	0.4+	0.5−	2000 04 03	704	0.2−	0.1−
1998 12 08	699	0.8+	0.5−	2000 03 05	608	0.5+	0.7−	2000 04 08	704	1.9−	0.1−
1998 12 08	699	0.5−	0.5+	2000 03 05	608	0.7+	0.9−	2000 04 08	704	0.5+	0.7+
1998 12 08	699	0.7+	0.7+	2000 03 12	703	1.0−	0.5−	2000 04 08	704	0.7+	0.5+
1998 12 14	747	0.3+	0.6+	2000 03 12	703	0.4−	0.2+	2000 04 08	704	0.7+	0.9−
1998 12 14	747	0.9−	0.1−	2000 03 12	703	0.2−	0.0	2000 04 08	704	0.5+	0.8−

1998 WE₉ = 2000 FY₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18938667	ω	255.43855	+0.98166694	+0.02698433				
<i>a</i>	3.0030998	Ω	102.74964	+0.04177007	+0.93540878				
<i>e</i>	0.0861337	<i>i</i>	11.15445	−0.18597121	+0.35253690				
<i>P</i>	5.20	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 11 14	699	0.1−	0.3+	1998 12 23	120	0.3−	0.2−	2000 03 11	699	0.5+	0.2+
1998 11 14	699	1.7−	0.7−	1999 01 16	120	0.3+	0.2+	2000 03 11	699	0.2+	1.0+
1998 11 14	699	0.2+	0.0	1999 01 16	120	0.1−	0.5+	2000 03 11	699	0.1+	0.2−
1998 11 27	120	0.5+	0.3−	1999 01 16	120	0.0	0.7+	2000 03 11	699	0.1+	0.2−
1998 11 27	120	0.3−	0.1−	1999 01 19	120	1.3+	0.4+	2000 03 29	704	0.3+	0.4+
1998 11 27	120	0.3−	0.6−	1999 01 21	120	0.2−	0.3+	2000 03 29	704	0.1−	0.5+
1998 11 28	120	0.0	0.2+	1999 01 21	120	0.2−	0.2+	2000 03 29	704	0.0	0.5+
1998 11 28	120	(1.3−	3.3+)	1999 01 22	120	0.2−	0.4−	2000 03 29	704	0.1+	0.3+
1998 11 28	120	1.6+	0.8+	1999 01 22	120	0.4−	0.2−	2000 03 29	704	0.1−	0.8+
1998 11 28	120	1.2+	0.3+	1999 01 22	120	0.4−	0.3−	2000 04 03	704	0.6−	0.3−
1998 11 28	120	0.4+	0.5−	1999 01 25	120	0.6−	0.2+	2000 04 03	704	0.4−	0.1−
1998 11 28	120	1.1+	0.3−	1999 01 25	120	0.2−	0.1−	2000 04 03	704	0.3−	0.3+
1998 11 28	120	0.4+	0.3−	1999 02 10	704	0.2+	0.1−	2000 04 03	704	0.9−	0.1+
1998 11 28	327	0.1−	0.1+	1999 02 10	704	0.4+	0.3−	2000 04 03	704	0.2−	0.0
1998 11 28	327	0.1−	0.0	1999 02 10	704	0.2+	0.2−	2000 04 08	704	0.3+	0.3−
1998 11 28	327	0.1+	0.1+	1999 02 10	704	0.4+	0.6−	2000 04 08	704	0.5+	0.2−
1998 12 14	699	0.6−	0.6+	1999 02 10	704	0.9+	1.6−	2000 04 08	704	0.2+	0.3+
1998 12 14	699	0.5−	0.7+	2000 02 06	704	0.8+	1.0−	2000 04 08	704	0.5−	0.4+
1998 12 14	699	0.5−	0.2−	2000 02 06	704	1.5+	0.4−	2000 04 08	704	0.4−	0.6−
1998 12 15	120	0.5−	0.6+	2000 02 06	704	0.1−	0.1+	2000 04 13	704	0.1+	0.1+
1998 12 15	120	0.7−	0.0	2000 02 06	704	0.6+	0.4+	2000 04 13	704	0.1−	0.3−
1998 12 16	120	0.1−	0.5+	2000 03 06	608	0.2−	0.2−	2000 04 13	704	0.1+	0.3−
1998 12 22	120	0.5−	0.0	2000 03 06	608	0.2−	0.0	2000 04 13	704	0.5−	0.1−
1998 12 22	120	0.5−	0.1−	2000 03 06	608	0.2+	0.5−	2000 04 13	704	0.0	0.6−

1998 WM₉ = 2000 FY₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.24162360	ω	7.80565	+0.51447285	−0.84820172				
<i>a</i>	2.5529549	Ω	51.32493	+0.77777221	+0.39970536				
<i>e</i>	0.1559611	<i>i</i>	9.28645	+0.36109289	+0.34754779				
<i>P</i>	4.08	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1992 04 26	691	0.8−	1.0−	1998 11 21	691	0.1+	0.3−	1999 01 08	699	0.6−	0.9−
1992 04 26	691	0.7−	1.5−	1998 11 24	699	0.2+	0.2−	1999 01 08	699	0.9+	0.2+
1998 10 18	699	0.6−	0.2−	1998 11 24	699	0.1+	0.0	2000 03 15	699	0.4−	0.0
1998 10 18	699	0.2−	0.1−	1998 11 24	699	0.9+	0.4+	2000 03 15	699	0.3+	0.1−
1998 10 18	699	0.3−	0.3−	1998 11 26	120	0.4+	0.6+	2000 03 15	699	0.2+	0.2−
1998 11 11	704	0.3−	0.2+	1998 11 26	120	0.4−	0.6+	2000 03 15	699	0.0	0.6+
1998 11 11	704	0.4−	0.2+	1998 11 26	120	0.4+	0.1+	2000 03 29	704	0.1−	0.5−
1998 11 11	704	0.6−	0.4+	1998 11 27	691	0.4+	0.0	2000 03 29	704	0.0	0.2+
1998 11 11	704	0.1+	0.2+	1998 11 27	691	0.8+	0.2+	2000 03 29	704	0.1+	0.3+
1998 11 11	699	0.3−	0.2+	1998 11 27	691	0.6+	0.2+	2000 03 29	704	0.1+	0.5−
1998 11 11	704	0.7−	0.2+	1998 11 29	120	(4.0+	0.7−)	2000 03 29	704	0.4−	0.1−
1998 11 11	699	0.8−	0.1+	1998 11 29	120	0.3+	0.2−	2000 04 05	704	0.1+	0.0
1998 11 11	699	0.4−	0.9+	1998 11 29	120	1.6+	1.3−	2000 04 05	704	0.6+	1.2+
1998 11 15	691	1.0−	0.1−	1998 12 12	120	0.6+	0.3−	2000 04 05	704	0.7+	0.7+
1998 11 15	691	0.9−	0.1−	1998 12 12	120	0.0	0.2+	2000 04 05	704	0.6+	0.7−
1998 11 15	691	0.9−	0.2−	1998 12 15	120	0.5+	0.3+	2000 04 13	704	0.6−	0.2+
1998 11 21	691	0.1+	0.3−	1998 12 15	120	0.4+	0.4+	2000 04 13	704	0.2−	1.3+
1998 11 21	691	0.1+	0.4−	1999 01 08	699	0.7+	0.8−	2000 04 13	704	0.6+	0.3+

1998 WN₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26601478	ω	18.44949	+0.13015759	−0.98465439				
<i>a</i>	2.3944120	Ω	64.20961	+0.89265119	+0.06534072				
<i>e</i>	0.0804840	<i>i</i>	7.41838	+0.43154706	+0.16182191				
<i>P</i>	3.71	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 11 11	704	0.6+	1.0+	1998 11 22	691	0.7−	0.1+	1998 12 14	704	0.2−	1.9−
1998 11 11	704	0.9−	0.3+	1998 11 24	704	0.1+	0.6+	1998 12 14	691	0.2+	0.5−
1998 11 11	704	1.0−	0.4−	1998 11 24	704	1.2+	1.0−	1998 12 14	704	1.2+	1.1+
1998 11 11	704	0.5−	1.1−	1998 11 24	704	0.5+	0.7−	1998 12 14	691	0.2+	0.5−
1998 11 18	704	0.0	0.1+	1998 11 24	704	0.6−	0.1−	1998 12 14	704	1.5−	0.3+
1998 11 18	704	0.0	1.1−	1998 11 26	120	0.3−	0.6−	1998 12 14	691	0.4+	0.5−
1998 11 18	704	0.1−	0.9−	1998 11 26	120	0.4−	0.5−	2000 04 04	699	0.1−	0.0
1998 11 18	704	1.4+	1.9−	1998 11 26	120	0.3−	0.2−	2000 04 04	704	0.8−	0.1+
1998 11 18	704	0.3+	0.6−	1998 11 29	120	1.6−	1.5+	2000 04 04	699	0.5+	0.2+
1998 11 19	699	0.4−	0.6+	1998 11 29	120	0.6+	1.3+	2000 04 04	704	0.5−	0.1−
1998 11 19	699	0.8+	0.1−	1998 12 06	120	0.2−	0.8+	2000 04 04	699	0.6+	0.3−
1998 11 19	699	0.2−	1.3+	1998 12 06	120	0.3−	0.2+	2000 04 04	704	0.1−	0.3+
1998 11 21	704	0.5+	0.3−	1998 12 06	120	0.2+	0.1−	2000 04 04	699	1.3+	0.2+
1998 11 21	704	0.2+	0.9+	1998 12 06	120	1.6−	0.6+	2000 04 04	704	0.6−	0.2−
1998 11 21	704	1.1+	0.5−	1998 12 06	120	0.5+	1.3+	2000 04 07	699	0.1−	0.1+
1998 11 21	704	1.3+	1.4+	1998 12 10	691	0.1−	0.5−	2000 04 07	699	0.3+	0.5−
1998 11 21	704	0.2+	1.4+	1998 12 10	691	0.5+	0.4−	2000 04 07	699	0.6−	0.6+
1998 11 22	691	0.8−	0.0	1998 12 10	691	0.3+	0.4−	2000 04 07	699	0.1+	0.5−
1998 11 22	691	0.7−	0.1+	1998 12 14	704	0.1+	0.0				

2000 APR. 18

M.P.C. 40045

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	109.70186		(2000.0)	P		Q	
<i>n</i>	0.22613728	ω	3.93125	+0.65924597	−0.75093229		
<i>a</i>	2.6682178	Ω	44.83190	+0.68837539	+0.58203547		
<i>e</i>	0.2173383	<i>i</i>	3.14428	+0.30254599	+0.31198623		
<i>P</i>	4.36	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 31	704	0.3−	0.2+	1998 11 21	704	0.0	1.1+	2000 03 10	704	(2.3−	2.0+)
1998 08 31	704	0.5+	1.1+	1998 11 21	704	0.2−	1.6+	2000 03 11	704	0.5−	0.1−
1998 08 31	704	1.0−	1.3+	1998 11 24	704	0.9−	0.2−	2000 03 11	704	0.3−	0.3+
1998 08 31	704	0.9−	0.6+	1998 11 24	704	0.5−	0.6−	2000 03 11	704	0.5+	0.0
1998 08 31	704	(3.8−	2.2+)	1998 11 24	704	0.9+	0.7−	2000 03 11	704	0.8+	0.0
1998 11 10	699	0.2−	0.6+	1998 11 24	704	0.5+	0.8−	2000 03 11	704	1.0+	0.9+
1998 11 10	704	0.1+	0.0	1998 11 24	704	0.4+	0.5−	2000 03 14	703	1.0−	0.5−
1998 11 10	704	0.2+	0.5−	1998 12 14	704	0.2+	0.4+	2000 03 14	703	0.3−	1.0−
1998 11 10	704	0.6+	0.4−	1998 12 14	704	0.5+	0.4−	2000 03 14	703	(2.3−	0.2−)
1998 11 10	699	0.3−	0.8+	1998 12 14	704	1.2−	0.6+	2000 03 14	703	(2.6−	0.4+)
1998 11 10	704	0.5+	1.7−	1998 12 14	704	1.1−	0.1+	2000 03 29	704	0.5+	0.4−
1998 11 10	699	0.2−	0.4+	1998 12 14	704	0.4+	0.1+	2000 03 29	704	0.3+	0.6−
1998 11 11	704	0.2−	0.4+	2000 02 27	703	(2.3−	0.8+)	2000 03 29	704	0.9+	0.4+
1998 11 11	704	0.2−	0.2−	2000 02 27	703	0.1−	0.1−	2000 03 29	704	0.3−	0.0
1998 11 11	704	0.1−	0.4+	2000 02 27	703	0.6+	0.5−	2000 04 05	704	0.5−	0.9+
1998 11 11	704	(0.9+	2.7−)	2000 02 27	703	0.1+	0.3+	2000 04 05	704	0.2+	0.5+
1998 11 18	704	0.9+	0.6+	2000 03 08	704	0.3−	0.5−	2000 04 05	704	0.6−	0.7+
1998 11 18	704	1.1−	0.5−	2000 03 08	704	0.1+	0.5+	2000 04 05	704	0.1+	0.3−
1998 11 18	704	1.1+	0.9−	2000 03 08	704	0.2−	0.5−	2000 04 05	704	0.1−	0.2−
1998 11 18	704	0.8+	1.6−	2000 03 08	704	0.4+	0.4+	2000 04 06	704	0.7+	0.3+
1998 11 18	704	0.3+	1.0−	2000 03 08	704	0.1+	0.3−	2000 04 06	704	0.2−	0.1+
1998 11 21	704	0.1−	0.6+	2000 03 10	704	0.4−	0.1+	2000 04 06	704	0.4−	0.5+
1998 11 21	704	0.8−	0.4+	2000 03 10	704	0.6−	0.6+				
1998 11 21	704	0.1+	0.6+	2000 03 10	704	0.0	0.1−				

1998 WY₁₀ = 2000 EX₁₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	153.46024		(2000.0)	P		Q	
<i>n</i>	0.25332485	ω	298.07318	+0.97154531	−0.21610196		
<i>a</i>	2.4737218	Ω	74.54205	+0.23677983	+0.87591933		
<i>e</i>	0.1061601	<i>i</i>	5.77318	+0.00591816	+0.43135285		
<i>P</i>	3.89	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	704	0.7−	0.3+	1998 11 23	699	0.6+	0.8+	2000 03 05	608	0.5+	1.0−
1998 11 11	704	(0.0	2.4−)	1998 11 23	699	1.0+	0.9+	2000 03 11	699	0.3−	0.2−
1998 11 11	704	1.3−	1.6−	1998 11 24	704	0.6+	0.8+	2000 03 11	699	0.1−	0.1+
1998 11 11	699	0.6+	0.7+	1998 11 24	704	0.7+	0.0	2000 03 11	699	0.3−	0.8−
1998 11 11	704	0.6−	0.7−	1998 11 24	704	0.2+	0.5−	2000 03 11	699	0.0	0.6+
1998 11 11	699	0.5+	0.9+	1998 11 24	704	0.1+	0.8+	2000 03 28	704	0.5−	0.5−
1998 11 11	699	1.4+	0.2+	1998 11 26	691	0.4−	0.2−	2000 03 28	704	0.9+	1.4+
1998 11 18	704	0.3+	0.3−	1998 11 26	691	0.4−	0.1−	2000 03 28	704	1.7+	1.1+
1998 11 18	704	0.7−	0.5−	1998 11 26	691	0.7+	0.0	2000 04 03	704	0.5−	0.2+
1998 11 18	704	0.4−	0.5+	1998 12 15	910	0.1+	0.1−	2000 04 03	704	0.1−	0.7+
1998 11 18	704	1.0−	0.1+	1998 12 15	910	0.2+	0.1+	2000 04 03	704	0.7−	0.2+
1998 11 18	704	0.4+	0.0	1998 12 15	910	0.2+	0.1+	2000 04 03	704	0.8+	0.5+
1998 11 21	704	0.2−	0.1−	2000 02 11	704	0.5−	0.7−	2000 04 08	704	1.2−	0.5−
1998 11 21	704	0.1−	0.1−	2000 02 11	704	1.1−	0.3−	2000 04 08	704	0.2−	0.9−
1998 11 21	704	0.4−	1.5−	2000 02 11	704	0.2−	0.6+	2000 04 08	704	0.7−	0.6−
1998 11 21	704	0.4−	1.5−	2000 02 11	704	0.5+	1.0+	2000 04 08	704	0.7+	1.5+
1998 11 21	704	1.7−	0.0	2000 03 05	608	0.5+	1.1−				
1998 11 23	699	0.8+	1.4+	2000 03 05	608	0.3+	1.2−				

1998 WF₁₂

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.88227		(2000.0)	P		Q	
<i>n</i>	0.26187521	ω	172.18654	+0.74605219	−0.66158408		
<i>a</i>	2.4195789	Ω	229.51985	+0.60544057	+0.72119776		
<i>e</i>	0.1261523	<i>i</i>	5.70275	+0.27721443	+0.20537844		
<i>P</i>	3.76	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	120	0.4+	0.5−	1998 11 19	699	0.0	0.3+	1998 12 08	691	1.3−	0.1+
1998 11 11	120	0.3+	0.5−	1998 11 21	704	0.0	0.9+	1998 12 08	691	1.3−	0.4−
1998 11 14	691	1.2−	0.2+	1998 11 21	704	0.9+	0.4+	1998 12 08	910	0.6+	0.1+
1998 11 14	691	1.1−	0.2+	1998 11 21	704	1.4+	1.6−	1998 12 08	910	0.8+	0.1+
1998 11 16	566	0.7−	0.2+	1998 11 21	704	(0.9+	2.3+)	1998 12 08	910	0.7+	0.1+
1998 11 16	566	0.6−	0.3+	1998 11 21	704	(1.8+	2.6+)	2000 03 27	699	1.2−	0.0
1998 11 16	566	1.2−	0.9+	1998 11 24	704	0.2−	0.1+	2000 03 27	699	0.1+	0.8+
1998 11 18	704	0.5−	0.9+	1998 11 24	704	0.2+	1.9−	2000 03 27	699	0.0	0.4−
1998 11 18	704	1.0+	0.0	1998 11 24	704	0.5+	1.0−	2000 03 27	699	1.3+	0.4−
1998 11 18	704	0.4+	0.8−	1998 11 24	704	1.2−	0.1+	2000 04 06	699	0.2+	0.7−
1998 11 18	704	0.9+	0.8−	1998 12 07	910	0.5+	0.2+	2000 04 06	699	0.0	0.3+
1998 11 18	704	0.3+	0.9+	1998 12 07	910	0.0	0.2+	2000 04 06	699	0.4−	0.0
1998 11 19	699	1.1+	0.8+	1998 12 07	910	0.8+	0.3+	2000 04 06	699	0.1−	0.3+
1998 11 19	699	0.0	0.2+	1998 12 08	691	1.3−	0.1−				

1998 WT₁₄ = 2000 GT₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	128.12147		(2000.0)	P		Q	
<i>n</i>	0.26605447	ω	224.29698	+0.63096197	−0.77580235		
<i>a</i>	2.3941738	Ω	186.58587	+0.72159875	+0.58885270		
<i>e</i>	0.1742827	<i>i</i>	2.10253	+0.28492497	+0.22667865		
<i>P</i>	3.70	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 31	704	0.3+	0.4+	1998 11 21	704	0.2−	0.1−	1998 12 12	691	(1.4−	2.1+)
1998 08 31	704	0.1−	1.3−	1998 11 21	704	0.3−	1.1+	1998 12 12	691	0.2−	0.1−
1998 08 31	704	0.7+	1.4+	1998 11 21	704	0.7−	1.2+	1998 12 12	691	0.5−	0.4−
1998 08 31	704	0.7−	0.4−	1998 11 24	704	0.3+	0.4−	2000 04 05	704	0.0	0.1+
1998 11 10	704	0.0	0.1−	1998 11 24	704	0.2−	0.5−	2000 04 05	704	0.4−	0.6−
1998 11 10	704	1.2+	0.5−	1998 11 24	704	0.1−	1.4−	2000 04 05	704	0.1+	0.2+
1998 11 10	704	0.1+	1.1+	1998 11 24	704	0.0	1.2−	2000 04 05	704	0.3+	0.3−
1998 11 10	704	(3.5−	0.1+)	1998 11 24	704	0.1+	1.2−	2000 04 05	704	0.3−	0.2−
1998 11 15	120	0.3−	0.6+	1998 11 26	691	0.3−	0.4+	2000 04 06	704	0.1−	0.0
1998 11 15	120	0.3−	0.7+	1998 11 26	691	0.4−	0.1+	2000 04 06	704	0.3−	0.5−
1998 11 18	704	0.2+	0.5+	1998 11 26	691	0.8−	0.1+	2000 04 06	704	0.1−	0.3+
1998 11 18	704	0.2−	0.4−	1998 12 08	699	0.6−	0.2+	2000 04 06	704	0.1−	0.0
1998 11 18	704	0.2−	0.1+	1998 12 08	699	0.1−	0.4+	2000 04 06	704	0.1+	0.2−
1998 11 18	704	0.9+	0.1−	1998 12 08	699	0.0	0.1+	2000 04 07	704	0.2+	0.2+
1998 11 18	704	0.3+	0.4−	1998 12 08	910	1.2+	0.4+	2000 04 07	704	0.2−	0.2+
1998 11 21	704	0.5−	0.7−	1998 12 08	910	0.9+	0.1+	2000 04 07	704	1.1+	0.9+
1998 11 21	704	0.6−	0.2+	1998 12 08	910	1.2+	0.3+				

1998 WM₁₅ = 2000 FD₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	109.39527		(2000.0)	P		Q	
<i>n</i>	0.25215307	ω	338.50968	+0.40142052	−0.90675291		
<i>a</i>	2.4813796	Ω	87.63129	+0.85801912	+0.32299952		
<i>e</i>	0.0864208	<i>i</i>	7.42261	+0.32041342	+0.27105439		
<i>P</i>	3.91	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 11	704	0.5−	0.2−	1998 11 24

1998 11 11	699	0.1−	0.4+	1998 12 17	120	0.2−	0.1+	2000 03 29	704	0.1−	0.2+
1998 11 18	704	0.0	1.2−	1998 12 17	120	0.1−	0.9+	2000 03 29	704	0.4−	0.5+
1998 11 18	704	0.3−	0.4−	1998 12 23	120	0.5−	0.2−	2000 04 05	704	0.2+	0.8+
1998 11 18	704	0.0	0.1−	1999 02 07	691	0.4+	0.2+	2000 04 05	704	0.2+	0.3−
1998 11 18	704	(2.2+	0.5+)	1999 02 07	691	0.3+	0.1+	2000 04 05	704	0.8+	0.1+
1998 11 21	704	0.6−	0.0	1999 02 07	691	0.5+	0.3+	2000 04 05	704	0.1+	0.1+
1998 11 21	704	0.0	0.3−	1999 02 16	691	0.1−	0.5−	2000 04 13	704	0.2−	0.6−
1998 11 21	704	0.4+	0.7−	1999 02 16	691	0.0	0.2−	2000 04 13	704	0.5+	0.1+
1998 11 21	704	0.7−	0.9−	1999 02 16	691	0.1−	0.1−	2000 04 13	704	1.0−	0.6+
1998 11 23	699	0.3−	0.1−	1999 02 16	691	0.2−	0.4+	2000 04 13	704	0.4−	0.2+
1998 11 23	699	0.2−	0.2+	1999 02 16	691	0.5−	0.2−	2000 04 13	704	1.1+	0.7−
1998 11 23	699	0.2+	0.3+	1999 02 16	691	0.2−	0.3+				
1998 11 24	704	0.8−	0.1+	2000 03 11	699	0.0	1.1−				

1998 WE₁₆ = 2000 EK₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	57.15744		(2000.0)	P	Q		
<i>n</i>	0.17070453	ω	5.45053	+0.07371597	−0.99075066		
<i>a</i>	3.2183951	Ω	80.35806	+0.91056425	+0.02027411		
<i>e</i>	0.0918141	<i>i</i>	6.63582	+0.40674157	+0.13417184		
<i>P</i>	5.77	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 18	704	0.3+	0.5−	1998 12 22	691	0.1+	0.3+	2000 02 06	703	0.6−	0.2−
1998 11 18	704	(4.0+	1.1−)	1998 12 22	691	0.4−	0.4−	2000 03 04	704	0.5−	0.1−
1998 11 18	704	(0.1+	2.7−)	1998 12 22	910	1.0+	0.2−	2000 03 04	704	1.0−	0.5−
1998 11 21	704	0.7−	0.4+	1998 12 22	910	0.8+	0.0	2000 03 04	704	0.0	0.5−
1998 11 21	704	(1.3−	2.2−)	1998 12 22	910	1.4+	0.7+	2000 03 04	704	0.3−	0.3−
1998 11 21	704	1.3+	1.0−	1999 02 09	691	0.2+	0.5−	2000 03 04	704	0.1−	0.3−
1998 11 23	699	1.0−	0.0	1999 02 09	691	0.3−	0.3−	2000 03 11	699	0.2−	0.4−
1998 11 23	699	0.2−	0.6−	1999 02 09	691	0.1+	0.2−	2000 03 11	699	0.3+	0.5−
1998 11 23	699	0.4+	0.6+	2000 02 03	704	1.5+	0.5+	2000 03 11	699	1.3+	0.1−
1998 11 24	704	0.2−	0.5−	2000 02 03	704	0.8+	0.5−	2000 03 11	699	0.2−	1.0+
1998 11 24	704	0.8+	1.3+	2000 02 03	704	0.4+	0.5+	2000 03 12	704	0.2+	0.3+
1998 11 24	704	0.9−	0.7+	2000 02 03	704	0.6+	0.2+	2000 03 12	704	0.7−	0.1+
1998 12 13	691	0.7−	0.2−	2000 02 03	704	1.2+	0.5+	2000 03 12	704	0.4+	0.3−
1998 12 13	691	0.6−	0.0	2000 02 06	703	1.0−	1.4+	2000 03 12	704	0.5−	0.5−
1998 12 13	691	0.6−	0.1−	2000 02 06	703	1.5−	0.6+	2000 03 12	704	0.2−	0.0
1998 12 22	691	0.6−	0.2−	2000 02 06	703	0.3+	0.2−				

1998 WW₁₈ = 1998 WG₄ = 2000 EW₁₉Id. G. V. Williams (d, *MPC* 33590), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	192.93979		(2000.0)	P	Q		
<i>n</i>	0.21830461	ω	79.40304	+0.77644408	+0.62250246		
<i>a</i>	2.7316651	Ω	242.02422	−0.61287397	+0.70966683		
<i>e</i>	0.0660024	<i>i</i>	6.37814	−0.14669726	+0.32994495		
<i>P</i>	4.51	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	399	1.3−	0.3−	1998 12 24	691	0.3−	0.3−	2000 03 08	704	0.2+	0.4+
1998 11 18	399	1.0−	0.7−	2000 02 06	704	0.2+	0.1+	2000 03 08	704	0.3+	0.7+
1998 11 21	704	0.4+	0.4−	2000 02 06	704	0.0	0.4−	2000 03 08	704	0.1−	0.5−
1998 11 21	704	0.2−	0.5+	2000 02 06	704	0.5+	0.0	2000 03 08	704	1.3−	0.6+
1998 11 21	704	0.6−	0.5+	2000 02 06	704	0.6+	0.1+	2000 03 08	704	0.3−	0.0
1998 11 21	704	1.5−	1.0+	2000 02 06	704	0.2+	0.1−	2000 03 08	704	0.6−	0.8+
1998 11 24	704	1.2+	0.5−	2000 02 13	704	0.0	0.5+	2000 03 08	704	0.2+	0.3+
1998 11 24	704	1.1+	0.0	2000 02 13	704	0.7+	0.7+	2000 03 08	704	0.9−	0.7+
1998 11 24	704	0.3+	0.4−	2000 02 13	704	1.4−	0.6−	2000 03 09	704	1.2+	0.2+
1998 11 24	704	1.2+	0.2+	2000 03 01	703	0.6−	0.2−	2000 03 09	704	0.4+	0.0
1998 11 24	704	1.7+	1.8+	2000 03 01	703	0.5−	0.2−	2000 03 09	704	0.9+	0.1−
1998 12 08	699	1.1+	0.1−	2000 03 01	703	0.3+	0.1−	2000 03 09	704	0.5+	0.3−
1998 12 08	699	0.4+	0.3+	2000 03 01	703	0.2−	0.2+	2000 03 09	704	0.6+	0.3−
1998 12 08	699	0.8−	0.2−	2000 03 06	704	0.3−	0.1+	2000 03 27	699	0.3−	0.1+
1998 12 11	691	0.4−	0.0	2000 03 06	704	0.1+	0.2−	2000 03 27	699	1.0−	0.6−
1998 12 11	691	0.6−	0.2−	2000 03 06	704	0.0	0.0	2000 03 27	699	0.4−	0.0

1998 12 11	691	0.8−	0.1−	2000 03 06	704	0.2−	0.1+	2000 03 27	699	0.9−	0.5−
1998 12 14	691	0.1+	0.4−	2000 03 06	608	0.0	0.8−	2000 04 05	704	1.0+	0.2−
1998 12 14	691	0.2+	0.1−	2000 03 06	608	0.3−	1.0−	2000 04 05	704	0.0	1.1−
1998 12 14	691	0.0	0.2+	2000 03 06	608	0.5+	1.2−	2000 04 05	704	0.5+	0.8+
1998 12 24	691	0.1+	0.6−	2000 03 08	704	0.0	1.0+	2000 04 05	704	0.2+	0.4−
1998 12 24	691	0.1−	0.3−	2000 03 08	704	0.6−	0.6+	2000 04 05	704	1.1+	0.7+

1998 WL₂₀ = 2000 CD₉₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	335.90676		(2000.0)	P	Q		
<i>n</i>	0.28689293	ω	174.84449	−0.80540747	+0.58902643		
<i>a</i>	2.2767892	Ω	41.47717	−0.54731538	−0.69627712		
<i>e</i>	0.1028198	<i>i</i>	5.72601	−0.22751852	−0.41017806		
<i>P</i>	3.44	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	699	0.9+	0.1+	1998 11 21	704	0.6+	0.3−	2000 03 14	703	0.5−	0.4+
1998 11 10	699	1.3+	0.4+	1998 11 21	704	0.2+	0.3+	2000 03 14	703	0.3−	0.3+
1998 11 10	699	0.2−	0.2−	1998 11 21	704	1.4−	0.8+	2000 03 14	703	0.9−	0.1−
1998 11 11	704	0.2+	0.4−	1998 12 16	699	1.3−	0.2−	2000 04 07	704	0.4+	0.6−
1998 11 11	704	0.1−	0.6+	1998 12 16	699	0.1−	1.1+	2000 04 07	704	0.1−	0.6−
1998 11 11	704	1.6−	0.4−	1998 12 16	699	0.7−	0.9+	2000 04 07	704	0.2+	0.3−
1998 11 18	704	1.3+	0.4+	2000 02 08	704	0.1−	0.4+	2000 04 07	704	0.5+	0.0
1998 11 18	704	0.8+	0.3−	2000 02 08	704	0.1−	0.3+	2000 04 07	704	0.2−	0.3−
1998 11 18	704	0.9+	1.7−	2000 02 08	704	0.2+	0.3+	2000 04 08	704	0.2+	0.5−
1998 11 18	704	(0.8+	2.9−)	2000 02 11	704	0.2−	0.1+	2000 04 08	704	0.2−	0.2−
1998 11 18	704	0.3−	1.6−	2000 02 11	704	0.5+	0.0	2000 04 08	704	0.3−	0.1−
1998 11 21	704	0.3−	0.6−	2000 02 11	704	1.4+	0.8+	2000 04 08	704	0.2−	0.3−
1998 11 21	704	0.2+	0.5−	2000 03 14	703	0.2−	0.3+	2000 04 08	704	0.3−	0.5−

1998 WK₂₂ = 2000 CZ₁₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.45123		(2000.0)	P	Q		
<i>n</i>	0.18358155	ω	160.73570	+0.31781057	−0.93543189		
<i>a</i>	3.0660791	Ω	270.49322	+0.84833493	+0.35345535		
<i>e</i>	0.0593027	<i>i</i>	8.90564	+0.42346698	−0.00604151		
<i>P</i>	5.37	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	0.4+	0.2+	1998 12 14	704	0.9+	0.1+	2000 02 07	703	1.7−	0.2−
1998 11 18	704	0.3+	0.2−	1998 12 14	704	0.9−	0.5−	2000 02 07	703	1.2−	0.3+
1998 11 18	704	0.7−	0.6−	1998 12 14	704	0.1+	0.1−	2000 02 08	704	0.1−	0.6−
1998 11 18	704	0.8+	0.3−	1998 12 14	704	(5.9−	0.4−)	2000 02 08	704	0.3+	0.1+
1998 11 21	704	0.7−	0.6+	2000 01 11	704	0.0	1.4+	2000 02 08	704	0.5+	0.2+
1998 11 21	704	0.2−	0.7−	2000 01 11	704	0.7+	1.5−	2000 02 08	704	0.9+	0.7+
1998 11 21	704	0.3+	1.0−	2000 01 11	704	0.3−	0.1+	2000 03 01	703	0.3−	0.6−
1998 12 11	699	0.3−	1.9+	2000 01 11	704	0.6+	1.5−	2000 03 01	703	0.5−	0.2−
1998 12 11	699	0.3−	0.2+	2000 02 07	703	0.4+	0.8+	2000 03 01	703	0.5+	0.2+
1998 12 11	699	0.1+	0.5+	2000 02 07	703	0.0	1.1+	2000 03 01	703	0.2+	0.4−

1998 WR₂₂ = 2000 GE₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.20791		(2000.0)	P	Q		
<i>n</i>	0.20512988	ω	235.58838	+0.40850919	−0.91273673		
<i>a</i>	2.8474106	Ω	190.30502	+0.84745617	+0.38157585		

2000 APR. 18

1998 11 20	699	0.8+	0.4+	1998 12 13	691	0.4-	0.2+	2000 04 05	704	0.1-	0.9+
1998 11 21	704	0.3-	0.2-	1998 12 13	691	0.1-	0.3+	2000 04 05	704	0.1+	0.4+
1998 11 21	704	0.1-	0.4-	2000 02 26	691	0.0	1.3-	2000 04 06	704	0.1-	0.3+
1998 11 21	704	2.0-	0.8+	2000 02 26	691	0.5-	1.2-	2000 04 06	704	0.7+	0.5-
1998 11 21	704	0.5+	0.1+	2000 02 26	691	0.5-	0.9-	2000 04 06	704	0.4+	0.4+
1998 11 21	704	1.0-	0.7-	2000 03 10	704	0.1-	0.3+	2000 04 06	704	0.4-	0.6+
1998 12 08	691	0.2+	0.2-	2000 03 10	704	0.1+	0.1+				

1998 WV₂₂ = 2000 EC₁₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	94.94302		(2000.0)		P		Q
<i>n</i>	0.17585790	ω	335.71153		+0.71669547		-0.67676824
<i>a</i>	3.1552089	Ω	67.98297		+0.66586694		+0.59233060
<i>e</i>	0.0682560	<i>i</i>	10.46082		+0.20728921		+0.43718326
<i>P</i>	5.60	<i>H</i>	14.3		<i>G</i> 0.15		<i>U</i> 4

Residuals in seconds of arc

1998 11 18	704	0.0	1.1+	1998 12 10	691	0.7-	0.6+	2000 03 04	704	0.2-	0.5+
1998 11 18	704	0.3+	0.0	1998 12 10	691	0.6-	0.5+	2000 03 04	704	1.0+	0.2-
1998 11 18	704	0.4-	1.0-	1998 12 10	691	0.4-	0.0	2000 03 04	704	0.0	0.4+
1998 11 18	704	0.6-	1.6+	1998 12 14	691	0.6-	0.2+	2000 03 04	704	0.1-	0.3+
1998 11 18	704	0.5+	1.6+	1998 12 14	691	0.5-	0.3+	2000 03 10	703	0.3+	0.0
1998 11 21	704	0.8+	0.5-	1998 12 14	691	0.6-	0.2+	2000 03 10	703	0.7-	0.4+
1998 11 21	704	0.4+	1.0-	1998 12 24	691	0.7+	1.1-	2000 03 10	703	0.1-	0.1+
1998 11 21	704	0.7-	1.4-	1998 12 24	691	0.4+	0.2+	2000 03 10	703	0.1-	0.5-
1998 11 21	704	(3.0-	2.5-)	1998 12 24	691	0.1+	0.0	2000 03 11	699	1.2+	0.1+
1998 12 08	699	0.0	1.3-	1999 01 09	691	0.2-	0.1-	2000 03 11	699	0.2-	0.5-
1998 12 08	699	0.6+	0.6+	1999 01 09	691	0.3+	0.2+	2000 03 11	699	1.0-	0.5-
1998 12 08	699	0.8+	0.7-	1999 01 09	691	0.4+	0.1+	2000 03 11	699	(2.2+	0.3-)

1998 WG₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	211.99110		(2000.0)		P		Q
<i>n</i>	0.26941032	ω	45.97075		+0.69999031		+0.71184047
<i>a</i>	2.3742506	Ω	268.55075		-0.67055191		+0.62746489
<i>e</i>	0.1173844	<i>i</i>	3.29262		-0.24571061		+0.31554866
<i>P</i>	3.66	<i>H</i>	15.3		<i>G</i> 0.15		<i>U</i> 5

Residuals in seconds of arc

1998 11 18	704	0.4+	0.1+	1999 02 10	691	1.0-	0.4+	2000 03 11	699	1.1+	0.1-
1998 11 18	704	1.2-	0.4-	1999 02 10	691	0.4-	0.2+	2000 03 11	699	1.3-	0.5+
1998 11 18	704	0.3+	1.0-	1999 02 10	691	0.0	0.0	2000 03 27	699	0.2-	0.2+
1998 11 18	704	0.8-	0.3+	1999 02 14	691	0.2+	0.3-	2000 03 27	699	0.1+	0.5-
1998 11 21	704	(0.9-	2.3+)	1999 02 14	691	0.5+	0.5-	2000 03 27	699	0.3-	0.1-
1998 11 21	704	1.2+	1.3+	1999 02 14	691	0.7+	0.3-	2000 03 27	699	0.1+	0.2-
1998 11 21	704	0.7-	0.4+	2000 03 11	699	0.4-	0.6+				
1998 11 21	704	0.7+	0.4-	2000 03 11	699	0.9+	0.3-				

1998 WK₂₃ = 2000 EZ₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	266.71855		(2000.0)		P		Q
<i>n</i>	0.25774923	ω	210.05092		-0.15212570		+0.98647295
<i>a</i>	2.4453318	Ω	51.26843		-0.89049730		-0.10999588
<i>e</i>	0.1484243	<i>i</i>	4.48967		-0.42880337		-0.12154022
<i>P</i>	3.82	<i>H</i>	14.1		<i>G</i> 0.15		<i>U</i> 4

Residuals in seconds of arc

1998 11 10	699	0.5-	0.1-	2000 01 10	699	0.2+	0.5+	2000 02 29	704	0.1-	0.3+
1998 11 10	699	1.5+	0.1-	2000 01 10	699	0.5-	0.2+	2000 02 29	704	0.4+	0.3-
1998 11 10	699	0.8+	0.7+	2000 02 03	704	0.2-	0.8+	2000 02 29	704	0.5+	0.2-
1998 11 18	704	0.2+	1.1-	2000 02 03	704	0.1+	0.1+	2000 02 29	704	0.5+	0.0
1998 11 18	704	1.5+	1.1-	2000 02 03	704	0.0	0.2+	2000 02 29	704	0.4+	0.2-
1998 11 18	704	(0.7+	3.1-)	2000 02 03	704	0.4+	0.0	2000 03 11	699	0.5-	0.3-
1998 11 18	704	1.2-	1.5-	2000 02 03	704	0.3+	0.1-	2000 03 11	699	0.1+	0.3-
1998 11 21	704	0.4+	0.1+	2000 02 06	703	0.4-	0.2+	2000 03 11	699	0.2-	0.4-

M.P.C. 40047

1998 11 21	704	0.5-	0.9+	2000 02 06	703	0.8-	0.0	2000 03 11	699	0.7-	0.8-
1998 11 21	704	0.3-	1.5+	2000 02 06	703	0.5-	0.4+	2000 03 12	704	0.4-	0.4-
1998 11 21	704	(0.6-	2.4+)	2000 02 06	703	0.3-	0.2+	2000 03 12	704	0.4+	0.3-
1998 12 14	704	0.0	0.4+	2000 02 11	704	0.3+	0.1-	2000 03 12	704	0.2+	0.4+
1998 12 14	704	0.3-	0.3+	2000 02 11	704	0.2+	0.2+	2000 03 12	704	0.2-	0.1+
1998 12 14	704	0.5-	0.7-	2000 02 11	704	0.2+	0.1-	2000 03 12	704	0.2+	0.2+
1998 12 14	704	1.0-	0.3+	2000 02 11	704	0.4+	0.4-				
2000 01 10	699	0.3-	0.4+	2000 02 11	704	0.4+	0.2-				

1998 XQ = 2000 GU₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	145.33402		(2000.0)		P		Q
<i>n</i>	0.23324465	ω	278.57125		+0.80485611		-0.59338576
<i>a</i>	2.6137352	Ω	117.82699		+0.54884851		+0.73782614
<i>e</i>	0.1332965	<i>i</i>	0.64780		+0.22576968		+0.32172337
<i>P</i>	4.23	<i>H</i>	15.1		<i>G</i> 0.15		<i>U</i> 5

Residuals in seconds of arc

1998 12 10	046	0.2+	0.0	1998 12 18	046	0.2-	0.2-	2000 04 05	704	0.3+	0.0
1998 12 10	046	0.3+	0.2-	1998 12 24	046	0.2-	0.5+	2000 04 05	704	0.1-	0.0
1998 12 11	046	0.1-	0.2+	1998 12 24	046	0.1-	0.3-	2000 04 05	704	0.0	0.2-
1998 12 11	046	0.2+	0.2+	1998 12 24	046	0.0	0.2-	2000 04 06	704	0.5+	0.2+
1998 12 11	046	0.1-	0.2+	1999 01 18	046	0.2-	1.0+	2000 04 06	704	0.5+	0.8+
1998 12 15	046	0.0	0.0	1999 01 18	046	0.2+	0.2+	2000 04 06	704	0.1+	0.6+
1998 12 15	046	0.1-	0.1+	1999 01 18	046	0.3+	0.4+	2000 04 06	704	0.0	0.8+
1998 12 15	046	0.4+	0.1-	1999 01 19	046	0.6-	0.5-	2000 04 07	704	0.9+	0.0
1998 12 16	046	0.0	0.1-	1999 01 19	046	0.1-	0.3-	2000 04 07	704	0.4-	0.1+
1998 12 16	046	0.2+	0.2-	1999 01 19	046	0.1+	0.1-	2000 04 07	704	0.1+	0.0
1998 12 17	046	0.5+	0.6+	2000 03 27	691	0.8-	0.2-	2000 04 07	704	0.4+	0.5-
1998 12 17	046	0.2-	0.1-	2000 03 27	691	0.8-	0.3-	2000 04 07	704	0.2+	0.3-
1998 12 17	046	0.3+	0.5-	2000 03 27	691	0.8-	0.1+	2000 04 11	691	0.2-	0.6-
1998 12 18	046	0.4-	0.4-	2000 04 05	704	0.3+	0.2-	2000 04 11	691	0.3-	0.4-
1998 12 18	046	0.4-	0.2-	2000 04 05	704	0.2+	0.4+	2000 04 11	691	0.2-	0.3-

1998 XL₁ = 2000 GS₂₄

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	47.28655		(2000.0)		P		Q
<i>n</i>	0.20528862	ω	265.05528		-0.52739056		-0.84877759
<i>a</i>	2.8459425	Ω	216.85456		+0.80240834		-0.48292689
<i>e</i>	0.1753860	<i>i</i>	3.62213		+0.27928491		-0.21530961
<i>P</i>	4.80	<i>H</i>	14.8		<i>G</i> 0.15		<i>U</i> 3

Residuals in seconds of arc

1993 10 16	691	0.3-	0.3+	1998 11 27	691	0.3-	1.2+	2000 04 05	704	0.3+	0.0
1993 10 16	691	0.3+	0.1-	1998 12 07	910	0.6+	0.0	2000 04 05	704	0.1+	0.0
1993 10 16	691	0.0	0.1+	1998 12 07	910	0.9+	0.3+	2000 04 05	704	1.0+	0.6+
1998 10 23	910	0.0	0.0	1998 12 07	910	0.7+	0.3+	2000 04 06	704	0.1+	0.2+
1998 10 23	910	0.0	0.0	1998 12 08	691	0.8-	0.6-	2000 04 06	704	0.2-	0.4-
1998 10 23	910	0.0	0.3-	1998 12 08	691	0.7-	0.1-	2000 04 06	704	0.3+	0.2+
1998 11 11	120	0.2-	0.4-	1998 12 08	691	0.9-	0.5-	2000 04 06	704	0.1-	0.2+
1998 11 11	120	0.3+	0.8-	1998 12 08	910	0.4+	0.1-	2000 04 07	704	0.5-	0.8-
1998 11 19	699	1.1+	1.8+	1998 12 08	910	0.5+	0.5+	2000 04 07	704	0.3+	0.5+
1998 11 19	699	0.6+	0.2+	1998 12 08	910	0.8+	0.1-	2000 04 07	704	0.2+	1.1-
1998 11 19	699	0.6-	0.1+	2000 03 10	704	1.2-	0.8-	2000 04 07	704	0.3+	0.6+
1998 11 21	704	1.0-	1.0+	2000 03 10	704	0.1-	0.1+	2000 04 07	704	0.5-	0.1-
1998 11 21	704	1.2+	0.2+	2000 03 10	704	0.5+	0.1+	2000 04 08	704	0.8+	0.2-
1998 11 21	704	1.0+	0.1-	2000 03 10	704	0.2+	0.2-	2000 04 08	704	0.4-	0.6+
1998 11 21	704	1.1-	1.2-	2000 04 02	699	0.5+	0.6-	2000 04 08	704	0.0	0.7+
1998 11 23	691	0.7-	0.4-	2000 04 02	699	0.1+	0.3-	2000 04 08	704	0.8-	0.5+
1998 11 23	691	0.5-	0.4-	2000 04 02	699	0.3-	0.6+	2000 04 08	704	0.4-	0.8+
1998 11 23	691	0.9-	0.4-	2000 04 02	699	0.5-	0.1-	2000 04 12	691	0.2-	0.3-
1998 11 27	691	0.4-	0.4-	2000 04 05	704	0.3+	0.1-	2000 04 12	691	0.0	0.3-
1998 11 27	691 (12.8+	1.8-)		2000 04 05	704	0.1+	0.1+	2000 04 12	691	0.2-	0.2-

1998 XR₂ = 2000 EM₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	254.35875		(2000.0)		P		Q
<i>n</i>	0.26405200	ω	313.85740		+0.22653691		+0.97262581
<i>a</i>	2.4062629	Ω	329.12485		-0.86219899		+0.17552458
<i>e</i>	0.1140172	<i>i</i>	5.78994		-0.45309372		+0.15228313
<i>P</i>	3.73	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 02 15	566	0.6-	0.3-	2000 02 29	704	0.0	0.5+	2000 03 08	704	0.3+	0.7-
1996 02 15	566	1.3+	0.5+	2000 02 29	704	0.8+	0.8+	2000 03 08	704	0.3+	1.0+
1996 02 15	566	0.7-	0.4-	2000 03 03	704	0.6+	0.5-	2000 03 09	704	0.8-	0.1+
1998 12 07	595	0.4+	0.0	2000 03 03	704	0.6+	0.6-	2000 03 09	704	(3.7-	0.2+)
1998 12 07	595	0.0	0.2+	2000 03 03	704	0.2+	0.9-	2000 03 09	704	0.4-	0.1-
1998 12 08	595	0.0	0.6+	2000 03 03	704	0.1+	1.0-	2000 03 09	704	1.2-	0.3+
1998 12 08	595	0.1-	0.1-	2000 03 08	704	0.4+	0.3-	2000 03 11	704	0.1-	0.2+
1998 12 08	595	1.0+	0.2+	2000 03 08	704	0.3+	0.7-	2000 03 11	704	0.0	0.6+
1998 12 14	595	0.6-	0.3-	2000 03 08	704	0.2+	1.0-	2000 03 11	704	0.2+	0.3+
1998 12 14	595	0.8-	0.5-	2000 03 08	704	0.7+	0.4+	2000 03 11	704	0.1-	0.3+
2000 02 29	704	1.4-	1.1+	2000 03 08	704	0.7+	0.1-	2000 03 11	704	0.5+	0.3-
2000 02 29	704	0.1-	0.3-	2000 03 08	704	1.6-	1.6+				
2000 02 29	704	1.3+	0.6+	2000 03 08	704	1.3-	1.1-				

1998 XS₂ = 2000 FK₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	154.32144		(2000.0)		P		Q
<i>n</i>	0.24364056	ω	350.08392		+0.87387462		-0.45604475
<i>a</i>	2.5388458	Ω	38.52960		+0.46250548		+0.67315370
<i>e</i>	0.1193137	<i>i</i>	15.68672		+0.14977259		+0.58214026
<i>P</i>	4.05	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 07	327	0.0	0.1-	1998 12 17	704	1.0-	0.7+	2000 03 29	704	0.1+	1.1+
1998 12 07	327	0.0	0.1-	1998 12 17	704	0.8-	0.5+	2000 04 04	704	0.4-	0.7-
1998 12 07	327	0.3+	0.5-	1998 12 17	704	1.3-	1.1+	2000 04 04	704	0.3+	0.2-
1998 12 08	327	0.2+	0.3-	1998 12 19	327	0.0	0.2+	2000 04 04	704	0.3-	0.6+
1998 12 08	327	0.0	0.2-	1998 12 19	327	0.1-	0.4+	2000 04 04	704	0.3-	0.1+
1998 12 08	327	0.2+	0.0	1998 12 19	327	0.1-	0.1+	2000 04 04	704	0.0	0.4+
1998 12 09	327	0.1+	0.2-	1999 01 09	704	0.0	1.0-	2000 04 08	704	0.2+	0.5-
1998 12 09	327	0.1-	0.1-	1999 01 09	704	1.0+	0.2+	2000 04 08	704	0.3+	0.4+
1998 12 09	327	0.2-	0.2-	1999 01 09	704	0.4+	0.5-	2000 04 08	704	0.1+	0.2+
1998 12 14	704	(0.1+	2.1-)	1999 01 09	704	0.3-	0.7+	2000 04 08	704	0.3+	0.1-
1998 12 14	704	0.3-	0.0	1999 01 09	704	(2.8-	0.1+)	2000 04 08	704	0.1+	0.2+
1998 12 14	704	1.0+	0.3-	2000 03 29	704	0.1+	0.3-	2000 04 10	608	0.5-	0.6-
1998 12 14	704	1.9+	0.7-	2000 03 29	704	0.4-	0.4+	2000 04 10	608	0.3-	0.6-
1998 12 14	704	0.7-	0.3+	2000 03 29	704	0.4+	0.3+	2000 04 10	608	0.3-	0.5-
1998 12 17	704	(2.4-	2.3-)	2000 03 29	704	0.5+	0.1-				

1998 XC₃ = 1982 YX₄ = 2000 GM₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.08179		(2000.0)		P		Q
<i>n</i>	0.24342938	ω	23.07697		+0.15665797		-0.98566608
<i>a</i>	2.5403139	Ω	57.96272		+0.89424776		+0.11464447
<i>e</i>	0.2008494	<i>i</i>	4.23599		+0.41926033		+0.12377008
<i>P</i>	4.05	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 12 24	095	0.3-	1.5-	1998 12 13	587	0.0	0.7+	1998 12 17	704	0.5+	0.2+
1998 12 07	596	0.0	0.5-	1998 12 13	587	0.4+	0.3-	1998 12 22	596	1.7-	0.2-
1998 12 07	596	0.3+	0.2-	1998 12 14	704	0.8+	0.2-	1998 12 22	596	0.3-	0.4+
1998 12 07	596	0.8-	0.6+	1998 12 14	704	0.7+	0.4+	1998 12 22	596	1.3-	0.6-
1998 12 07	596	0.8+	1.9+	1998 12 14	704	(2.7+	0.4-)	1998 12 22	596	0.0	1.6+
1998 12 08	587	0.1-	0.6-	1998 12 14	704	0.8+	0.5-	1999 01 03	596	0.1-	0.4+
1998 12 08	587	0.2-	0.1+	1998 12 14	587	0.0	0.1-	1999 01 03	596	0.3+	0.2+

1998 12 09	596	0.4-	0.5-	1998 12 15	596	0.2-	0.5-	2000 04 05	704	0.1-	0.2-
1998 12 09	596	0.2-	0.6-	1998 12 15	596	0.2-	0.0	2000 04 05	704	0.3+	0.1-
1998 12 09	596	0.0	0.1+	1998 12 15	596	0.6+	0.8+	2000 04 05	704	0.4+	0.2+
1998 12 12	589	0.1-	0.4-	1998 12 17	704	0.4+	0.3-	2000 04 06	704	0.6-	0.1-
1998 12 12	589	0.6-	0.0	1998 12 17	704	0.1+	0.1+	2000 04 06	704	0.7-	0.6-
1998 12 12	589	0.6-	0.0	1998 12 17	704	0.1+	0.5+	2000 04 06	704	0.3+	0.4+
1998 12 12	589	0.8-	0.5+	1998 12 17	704	1.4+	1.0-	2000 04 06	704	0.8+	1.4+

1998 XO₄ = 2000 GL₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	182.04718		(2000.0)		P		Q
<i>n</i>	0.28343737	ω	357.88791		+0.97868289		-0.20284299
<i>a</i>	2.2952570	Ω	13.94147		+0.19033289		+0.83696538
<i>e</i>	0.2166757	<i>i</i>	7.67180		+0.07715689		+0.50827519
<i>P</i>	3.48	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 08	627	0.3-	0.2-	1998 12 17	704	0.3+	0.2+	2000 04 06	704	0.1-	1.1+
1998 12 08	627	0.0	0.7-	1998 12 24	958	0.9+	0.7-	2000 04 06	704	0.3+	0.3-
1998 12 08	627	0.7-	1.3+	1998 12 25	958	(3.9+	0.0)	2000 04 06	704	0.4-	0.3-
1998 12 12	627	0.9+	0.1+	1998 12 25	958	0.1+	0.6+	2000 04 06	704	0.2+	0.5-
1998 12 12	627	0.4-	1.2+	1998 12 25	958	0.1-	0.0	2000 04 06	704	1.0+	0.8-
1998 12 12	627	0.6+	0.4-	1999 01 14	627	0.2-	1.0-	2000 04 07	704	0.3+	0.6+
1998 12 13	627	0.2-	0.3-	1999 01 14	627	0.0	0.1-	2000 04 07	704	0.6+	1.1+
1998 12 14	704	(2.7-	1.5-)	1999 01 14	627	1.1+	0.8-	2000 04 07	704	1.1-	0.0
1998 12 14	704	(1.9-	2.1-)	1999 01 14	627	1.0-	0.8+	2000 04 07	704	0.3+	0.5-
1998 12 14	704	0.1+	1.2-	1999 01 16	704	1.4+	0.7+	2000 04 07	704	0.3+	1.2-
1998 12 14	704	0.1-	0.1+	1999 01 16	704	0.7+	0.6+	2000 04 07	704	0.1+	0.0
1998 12 15	627	0.0	0.5-	1999 01 16	704	0.5-	0.7+	2000 04 07	704	0.2-	0.1+
1998 12 15	627	0.2-	0.2-	1999 01 16	704	1.9-	1.4-	2000 04 07	704	0.2+	0.0
1998 12 15	627	0.1+	0.6+	2000 04 05	704	0.4-	0.1-	2000 04 07	704	1.5-	1.0-
1998 12 17	704	0.0	0.7+	2000 04 05	704	0.4+	0.3+	2000 04 08	704	0.1+	0.1+
1998 12 17	704	0.3-	0.3-	2000 04 05	704	0.0	0.5+	2000 04 08	704	0.9-	0.3+
1998 12 17	704	0.3+	0.3+	2000 04 05	704	0.1-	0.5+	2000 04 08	704	0.5+	0.8-
1998 12 17	704	0.6-	0.1-	2000 04 05	704	0.3+	1.0+				

1998 XT₄ = 2000 GR₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	185.53790		(2000.0)		P		Q
<i>n</i>	0.28109076	ω	297.37069		+0.94777918		-0.29441320
<i>a</i>	2.3080135	Ω	79.96304		+0.31844503		+0.85247026
<i>e</i>	0.1235253	<i>i</i>	7.15333		+0.01753231		+0.43198996
<i>P</i>	3.51	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 12	411	0.3+	0.7+	1998 12 17	704	0.4-	0.4+	2000 04 07	704	1.1-	0.5-
1998 12 12	411	0.0	0.9+	1998 12 19	411	0.5+	0.5-	2000 04 07	704	0.0	0.2+
1998 12 13	411	0.1+	0.2+	1998 12 19	411	0.0	0.4+	2000 04 07	704	0.4-	0.3+
1998 12 13	411	0.1-	1.3+	1998 12 26	411	0.6+	0.4+	2000 04 07	704	0.8+	1.0+
1998 12 14	704	1.0-	0.1+	1998 12 26	411	0.0	0.0	2000 04 07	704	1.6+	0.2+
1998 12 14	704	0.3+	1.5-	1999 01 04	411	0.5-	0.2-	2000 04 08	704	0.3-	0.6+
1998 12 14	704	0.9+	0.3-	1999 01 04	411	0.6+	0.2+	2000 04 08	704	0.4-	1.6-
1998 12 14	704	0.1+	0.8-	1999 01 15	411	0.5+	0.3+	2000 04 08	704	1.0+	1.6-
1998 12 14	704	0.5-	0.3-	1999 01 15	411	0.3+	0.2-	2000 04 13	704	0.5-	0.8-
1998 12 17	704	0.1+	0.2+	1999 01 16	704	0.0	0.5-	2000 04 13	704	0.1-	0.7+
1998 12 17	704	0.4-	0.9-	1999 01 16	704	0.1-	0.0	2000 04 13	704	0.4-	0.8+
1998 12 17	704	0.4+	0.1+	1999 01 16	704	(2.4-	1.6+)	2000 04 13	704	0.1-	0.6+
1998 12 17	704	0.9-	0.5-	1999 01 16	704	0.8-	0.6+	2000 04 13	704	0.1-	0.2+

2000 APR. 18

M.P.C. 40049

1998 XU₄ = 2000 FJ₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.01983		(2000.0)	P		Q	
<i>n</i>	0.20682404	ω	45.15170	+0.04235558		−0.99867080	
<i>a</i>	2.8318400	Ω	42.44677	+0.90394878		+0.02578434	
<i>e</i>	0.0400462	<i>i</i>	2.49419	+0.42553802		+0.04462953	
<i>P</i>	4.77	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 23	033	0.2−	1.2−	1999 01 16	704	1.3−	1.8+	2000 04 05	704	0.1+	0.1+
1995 03 24	033	0.4−	0.0	1999 01 16	704	(0.4+	2.3+)	2000 04 05	704	0.0	0.1+
1998 12 12	411	0.7+	1.1+	2000 03 04	703	0.2+	0.7−	2000 04 05	704	0.3+	0.3+
1998 12 12	411	0.6+	0.4−	2000 03 04	703	0.0	0.3−	2000 04 06	699	0.2+	0.2−
1998 12 13	411	1.0+	0.5+	2000 03 04	703	1.5−	1.1+	2000 04 06	704	0.3+	0.2−
1998 12 13	411	0.1−	0.2+	2000 03 04	703	0.9−	0.8−	2000 04 06	699	0.0	0.2−
1998 12 14	704	0.0	0.5−	2000 03 27	699	0.6+	0.3−	2000 04 06	704	0.0	0.1−
1998 12 14	704	(2.5−	1.1−)	2000 03 27	699	0.5+	0.6+	2000 04 06	704	0.3−	0.2+
1998 12 14	704	0.4−	0.4−	2000 03 27	691	0.4−	0.5−	2000 04 06	699	0.3−	0.3+
1998 12 14	704	0.1+	1.8−	2000 03 27	699	0.2+	0.1−	2000 04 06	704	0.4+	0.5+
1998 12 14	704	1.0−	0.3−	2000 03 27	699	0.4+	0.3−	2000 04 06	699	0.1−	0.0
1998 12 17	704	0.2+	0.5+	2000 03 27	691	0.6−	0.5−	2000 04 06	704	0.2−	0.8+
1998 12 17	704	0.8+	1.4−	2000 03 27	691	0.4−	0.4−	2000 04 07	704	0.2+	0.1+
1998 12 17	704	0.2−	0.1−	2000 03 29	120	(3.2−	1.0+)	2000 04 07	704	0.2−	0.1+
1998 12 19	411	1.0−	0.2+	2000 03 29	120	1.0−	0.7+	2000 04 07	704	0.3+	0.0
1998 12 19	411	0.4+	0.2+	2000 03 30	120	0.8+	0.5−	2000 04 07	704	0.7+	0.5+
1998 12 26	411	0.5+	0.7+	2000 03 30	120	0.3+	0.7−	2000 04 07	704	0.0	0.5+
1998 12 26	411	0.3−	0.6+	2000 03 30	120	0.6+	0.4−	2000 04 08	120	1.8−	0.5−
1999 01 04	411	0.9−	0.0	2000 04 02	699	0.2−	0.6+	2000 04 08	120	0.4+	1.5−
1999 01 04	411	0.3−	0.2+	2000 04 02	699	0.3+	0.3+	2000 04 10	704	0.1+	0.3+
1999 01 15	411	(4.2−	1.1−)	2000 04 02	699	0.1+	0.4+	2000 04 10	704	0.4+	0.2−
1999 01 15	411	(2.6−	0.6+)	2000 04 02	699	0.2−	0.8+	2000 04 10	704	0.1−	0.6+
1999 01 16	704	0.2−	0.9−	2000 04 05	704	0.2+	0.1−	2000 04 10	704	0.6+	0.8+
1999 01 16	704	1.4+	0.3+	2000 04 05	704	0.3+	0.2−	2000 04 10	704	0.1+	0.1−

1998 XW₄ = 2000 GZ₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.90778		(2000.0)	P		Q	
<i>n</i>	0.26167459	ω	345.86509	+0.98500294		−0.17146122	
<i>a</i>	2.4208154	Ω	24.03335	+0.16253531		+0.88469227	
<i>e</i>	0.0922908	<i>i</i>	2.70805	+0.05789200		+0.43349814	
<i>P</i>	3.77	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 16	566	0.3−	0.2−	1998 12 17	704	0.2−	1.0−	2000 04 02	691	0.2−	0.3+
1996 03 16	566	0.1−	0.1−	1998 12 17	704	0.2−	1.0−	2000 04 05	704	0.2+	0.2−
1996 03 16	566	0.3+	0.0	1998 12 17	704	0.0	0.4+	2000 04 05	704	0.3−	0.0
1998 12 12	411	0.5+	0.2+	1998 12 19	411	1.1+	0.3+	2000 04 05	704	0.2+	0.1+
1998 12 12	411	0.1−	0.1−	1998 12 19	411	0.7−	0.5−	2000 04 05	704	0.2−	0.8+
1998 12 13	411	0.7−	1.2+	1998 12 26	411	0.2−	0.6−	2000 04 05	704	0.3+	0.1+
1998 12 13	411	0.5−	0.1−	1998 12 26	411	0.9+	0.2−	2000 04 06	704	0.0	0.2−
1998 12 14	704	0.9+	0.7−	1999 01 04	411	0.0	0.4+	2000 04 06	704	0.6+	0.0
1998 12 14	704	1.3−	1.7+	1999 01 04	411	1.1−	0.2+	2000 04 06	704	0.1−	0.5+
1998 12 14	704	0.3−	0.9−	1999 01 17	411	0.2+	0.5+	2000 04 06	704	0.4+	1.2+
1998 12 14	704	0.9+	0.8+	1999 01 17	411	0.7−	0.5+	2000 04 08	691	0.0	0.6−
1998 12 17	704	1.7+	0.3−	2000 04 02	691	0.5−	0.1−	2000 04 08	691	0.0	0.6−
1998 12 17	704	0.3−	0.7−	2000 04 02	691	0.3−	0.1−	2000 04 08	691	0.0	0.7−

1998 XX₄ = 2000 GH₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	134.37288		(2000.0)	P		Q	
<i>n</i>	0.18790569	ω	310.57480	+0.84884794		−0.47725800	
<i>a</i>	3.0188585	Ω	79.06939	+0.52734427		+0.73441551	
<i>e</i>	0.1371541	<i>i</i>	13.38760	+0.03694850		+0.48255431	
<i>P</i>	5.25	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 12	411	0.5−	0.3+	1999 01 04	411	0.7−	0.5+	2000 03 05	704	(4.2−	0.3+)
1998 12 12	411	0.2−	0.9+	1999 01 15	411	0.3−	0.2−	2000 03 05	704	(5.8−	0.5−)
1998 12 13	411	0.2−	0.5+	1999 01 15	411	0.3+	0.1−	2000 03 12	704	0.1−	0.1+
1998 12 13	411	0.1−	0.2+	1999 01 16	704	0.3+	0.0	2000 03 12	704	0.3+	0.2−
1998 12 14	704	0.4+	0.6−	1999 01 16	704	1.4−	0.7+	2000 03 12	704	0.5+	0.0
1998 12 14	704	0.9+	0.4−	1999 01 16	704	0.1+	1.2+	2000 03 12	704	0.5+	0.3−
1998 12 14	704	0.2−	1.4−	1999 01 16	704	0.5−	0.5+	2000 04 04	704	0.1−	0.7+
1998 12 14	704	0.7+	2.0−	1999 01 16	704	(3.9−	0.1+)	2000 04 04	704	0.2+	0.1−
1998 12 17	704	0.8+	0.3+	1999 01 19	704	0.6+	0.2−	2000 04 04	704	0.6−	0.0
1998 12 17	704	0.8+	0.5−	1999 01 19	704	0.3+	0.3−	2000 04 04	704	0.0	0.8+
1998 12 17	704	0.3−	0.2−	1999 01 19	704	1.4+	0.3−	2000 04 04	704	0.3−	0.3−
1998 12 17	704	0.1−	1.2+	1999 01 19	704	1.7+	1.6−	2000 04 08	704	0.1−	0.2+
1998 12 19	411	1.2−	0.6+	2000 02 04	704	0.5−	0.3−	2000 04 08	704	0.1−	0.7−
1998 12 19	411	0.3−	0.6+	2000 02 04	704	0.1+	0.3−	2000 04 08	704	0.1−	0.3+
1998 12 26	411	0.8−	0.0	2000 02 04	704	0.0	0.1−	2000 04 08	704	0.0	0.4−
1998 12 26	411	1.2−	0.4+	2000 02 04	704	0.3+	0.1+	2000 04 08	704	0.1+	0.5+
1999 01 04	411	0.4−	0.1+	2000 03 05	704	(4.4−	0.1+)				

1998 XF₅ = 2000 EX₁₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	135.72742		(2000.0)	P		Q	
<i>n</i>	0.22951606	ω	286.82358	+0.79175750		−0.56584807	
<i>a</i>	2.6419666	Ω	108.20845	+0.61071597		+0.72584912	
<i>e</i>	0.2127856	<i>i</i>	14.01681	+0.01208592		+0.39109976	
<i>P</i>	4.29	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 12	683	0.3−	0.8−	1998 12 22	683	0.1+	0.4+	2000 03 15	699	0.7+	0.1−
1998 12 12	683	0.4−	0.4−	1998 12 23	683	0.0	0.3+	2000 03 29	704	0.2+	0.2+
1998 12 12	683	0.2−	0.3−	1998 12 23	683	0.0	0.3+	2000 03 29	704	0.0	0.3−
1998 12 13	683	1.0+	0.4−	1998 12 23	683	0.1−	0.6+	2000 03 29	704	0.1+	0.2−
1998 12 13	683	0.3−	0.7−	2000 01 08	704	0.3−	0.5+	2000 03 29	704	0.2−	0.0
1998 12 15	825	0.7−	0.9+	2000 01 08	704	0.1+	0.2+	2000 03 29	704	0.2+	0.3+
1998 12 15	825	0.7−	0.0	2000 01 08	704	0.1+	1.1−	2000 04 03	704	0.6+	0.7−
1998 12 15	825	0.9+	0.5−	2000 02 04	704	0.6+	0.5−	2000 04 03	704	0.4−	0.2−
1998 12 15	704	0.4+	0.0	2000 02 04	704	1.0−	0.0	2000 04 03	704	0.3−	0.2+
1998 12 15	704	0.1+	0.1−	2000 02 04	704	1.8−	0.5+	2000 04 03	704	0.6+	0.4+
1998 12 15	704	0.8+	0.4−	2000 02 04	704	0.1+	0.0	2000 04 03	704	0.2−	0.7+
1998 12 15	704	0.2+	0.2−	2000 03 11	703	0.0	0.1+	2000 04 08	704	0.2−	0.5−
1998 12 15	704	0.2+	0.5+	2000 03 11	703	0.2+	0.6+	2000 04 08	704	0.3−	0.4−
1998 12 16	825	0.4−	0.2+	2000 03 11	703	0.1+	0.4+	2000 04 08	704	0.4−	0.6−
1998 12 16	825	0.9−	0.2+	2000 03 11	703	0.2+	0.9−	2000 04 08	704	0.0	0.3−
1998 12 16	825	0.2+	0.4−	2000 03 15	699	0.7−	0.9+	2000 04 08	704	0.0	0.3+
1998 12 22	683	0.2+	0.6+	2000 03 15	699	0.6+	0.6+				
1998 12 22	683	0.0	0.4+	2000 03 15	699	1.1+	0.0				

1998 XG₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.43043		(2000.0)	P		Q	
<i>n</i>	0.22680796	ω	186.98712	+0.34112062		−0.92436226	
<i>a</i>	2.6629552	Ω	243.19005	+0.87144939		+0.37911518	
<i>e</i>	0.1620722	<i>i</i>	11.03634	+0.35243819		−0.04273280	
<i>P</i>	4.35	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 06 26	691	0.3−	0.6+	1998 12 15	704

M.P.C. 40050

2000 APR. 18

1998 12 15 704 0.0 0.7− 1999 02 20 683 0.2+ 0.1−
 1998 12 15 704 0.8+ 0.6− 1999 02 20 683 0.2− 0.3−

1998 XH₅ = 2000 ET₁₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	68.11141	(2000.0)	P		Q	
<i>n</i>	0.17451047	ω	356.44591	−0.32736099	−0.92319111	
<i>a</i>	3.1714294	Ω	112.57923	+0.87221735	−0.37720606	
<i>e</i>	0.0453294	<i>i</i>	12.59715	+0.36341667	+0.07371405	
<i>P</i>	5.65	<i>H</i>	12.3	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 12 10	757	1.1−	1.2+	1999 01 20	704	0.6−	0.7+	2000 03 11	703	0.3+	0.9+
1998 12 10	757	0.1−	0.4−	1999 01 20	704	0.4+	0.3+	2000 03 11	703	0.1+	0.1−
1998 12 14	757	0.0	0.3+	1999 01 20	704	0.3+	0.3+	2000 03 11	703	0.6+	0.4+
1998 12 14	757	1.0+	0.5+	1999 01 20	704	0.2+	0.3+	2000 03 11	703	0.4+	0.1+
1998 12 15	704	1.1+	0.6−	1999 01 20	108	(0.1− 2.2−)		2000 03 15	699	0.0	0.3+
1998 12 15	704	0.3−	0.6−	1999 01 20	108	1.1−	1.7−	2000 03 15	699	0.2−	0.2+
1998 12 15	704	0.2−	0.4−	1999 01 20	108	0.1−	0.9−	2000 03 15	699	0.7−	0.4+
1998 12 15	704	(0.5+ 2.1−)		1999 01 20	108	0.9+	1.3−	2000 03 15	699	0.0	0.3+
1998 12 15	704	0.8−	0.4−	1999 02 04	704	1.2+	1.4−	2000 03 29	704	0.8+	0.1+
1998 12 22	704	1.1+	1.3−	1999 02 04	704	1.4+	0.4−	2000 03 29	704	0.5−	0.0
1998 12 22	704	1.0−	0.5−	1999 02 04	704	1.6+	1.3+	2000 03 29	704	0.2−	0.1+
1998 12 22	704	0.5+	0.0	1999 02 04	704	0.1−	1.0−	2000 03 29	704	0.1−	0.1+
1998 12 22	704	0.9+	0.3+	1999 02 04	704	0.1+	1.0+	2000 03 29	704	0.0	0.2−
1998 12 22	704	1.8+	1.4+	1999 02 15	757	0.9−	0.5+	2000 04 03	704	0.0	0.1+
1998 12 27	757	1.2−	0.8+	1999 02 15	757	0.8−	0.4+	2000 04 03	704	0.2−	0.0
1998 12 27	757	1.7−	1.1+	1999 03 08	757	0.4+	0.6−	2000 04 03	704	0.0	0.3+
1999 01 05	757	0.8−	0.4−	1999 03 08	757	0.0	0.3+	2000 04 03	704	0.0	0.3+
1999 01 05	757	0.4−	0.3−	2000 01 08	704	0.1−	0.3−	2000 04 03	704	0.0	0.2+
1999 01 13	757	1.0−	0.1−	2000 01 08	704	0.6−	0.8−	2000 04 08	704	0.3−	0.1+
1999 01 13	757	0.8−	0.5−	2000 01 08	704	0.5−	0.4−	2000 04 08	704	0.0	0.4−
1999 01 18	704	0.4+	1.0−	2000 01 08	704	0.3−	0.4−	2000 04 08	704	0.2+	0.3−
1999 01 18	704	0.5−	1.7+	2000 01 08	704	0.3−	0.7−	2000 04 08	704	0.2+	0.5−
1999 01 18	704	0.7−	0.1−	2000 02 04	704	1.2+	0.8−	2000 04 08	704	0.2+	0.4−
1999 01 18	704	0.6+	1.1−	2000 02 04	704	0.5+	0.6+	2000 04 14	704	0.1+	0.1+
1999 01 18	704	(3.5− 1.0−)		2000 02 04	704	0.5+	1.2+	2000 04 14	704	0.2−	0.1−
1999 01 18	104	0.2−	0.4+	2000 02 04	704	0.6+	0.7+	2000 04 14	704	0.0	0.1+
1999 01 18	104	0.3−	0.4+	2000 02 04	704	0.7+	1.5+	2000 04 14	704	0.5−	0.1+
1999 01 18	104	0.4−	0.6+	2000 03 06	608	0.0	0.9−	2000 04 14	704	0.7−	0.0
1999 01 20	104	1.3+	0.7+	2000 03 06	608	0.4−	1.1−				
1999 01 20	104	0.3+	0.5+	2000 03 06	608	0.5−	1.0−				

1998 XO₅ = 1996 JH₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	318.96513	(2000.0)	P		Q	
<i>n</i>	0.20437752	ω	105.59797	−0.97427152	+0.21842048	
<i>a</i>	2.8543943	Ω	87.04273	−0.22216612	−0.88927301	
<i>e</i>	0.0063330	<i>i</i>	3.18955	−0.03791065	−0.40185321	
<i>P</i>	4.82	<i>H</i>	16.2	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1996 05 13	691	0.3+	0.4+	1998 11 27	691	0.4−	0.7−	1998 12 13	691	0.6−	0.1+
1996 05 13	691	1.2+	0.6−	1998 11 27	691	0.0	1.3+	1998 12 13	691	0.6−	0.2−
1996 05 13	691	0.4+	0.1−	1998 12 08	691	0.1+	0.4−	1998 12 15	910	0.8+	0.1+
1996 05 20	691	0.6−	0.4+	1998 12 08	691	0.0	0.2−	1998 12 15	910	1.1+	0.1+
1996 05 20	691	0.5−	0.1+	1998 12 08	691	0.2−	0.2−	1998 12 15	910	0.7+	0.0
1996 05 20	691	0.7−	0.1+	1998 12 13	691	0.7−	0.2+				

1998 XS₅ = 2000 GE₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.99250	(2000.0)	P		Q	
<i>n</i>	0.26198044	ω	295.50070	−0.13303790	−0.99108868	
<i>a</i>	2.4189309	Ω	162.14072	+0.91692780	−0.12562220	
<i>e</i>	0.1131641	<i>i</i>	1.24141	+0.37622377	−0.04429775	
<i>P</i>	3.76	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1998 11 11	704	0.5+	0.8+	1998 11 21	704	(1.1− 2.8+)	1998 12 15	910	0.4+	0.0
1998 11 11	704	0.1+	1.1+	1998 11 23	691	0.4− 0.0	1998 12 15	910	0.1+	0.0
1998 11 11	704	1.6− 0.9−		1998 11 23	691	0.3− 0.1−	1998 12 21	910	0.1+	0.2−
1998 11 11	704	1.1+	0.5−	1998 11 23	691	0.4− 0.2−	1998 12 21	910	0.2−	0.1−
1998 11 18	704	0.9− 0.8+		1998 11 24	704	0.7+ 0.9+	1998 12 21	910	0.6+	0.3−
1998 11 18	704	0.5− 1.6−		1998 11 24	704	0.7− 0.6−	2000 04 05	704	1.1−	0.5+
1998 11 18	704	0.2− 0.4−		1998 11 24	704	0.8− 0.5−	2000 04 05	704	0.4−	0.4−
1998 11 18	704	(0.9− 3.6−)		1998 11 24	704	(5.8− 0.9+)	2000 04 05	704	0.5−	0.2−
1998 11 18	704	(2.0− 2.1−)		1998 12 08	691	0.0 0.1−	2000 04 05	704	0.2−	0.1−
1998 11 19	699	0.4+ 0.4+		1998 12 08	691	0.0 0.4+	2000 04 05	704	0.4−	0.0
1998 11 19	699	0.7+ 0.2+		1998 12 08	691	0.2+ 0.0	2000 04 06	704	0.1+ 0.4−	
1998 11 19	699	1.0+ 0.2+		1998 12 13	691	0.4− 0.1−	2000 04 06	704	0.9+ 0.1+	
1998 11 21	704	0.9+ 0.1+		1998 12 13	691	0.4− 0.2−	2000 04 06	704	0.2+ 0.5−	
1998 11 21	704	0.0 0.3−		1998 12 13	691	0.3− 0.4−	2000 04 06	704	1.2+ 1.1+	
1998 11 21	704	0.0 1.9+		1998 12 15	910	0.5+ 0.0	2000 04 06	704	0.4+ 0.3+	

1998 XJ₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	115.04486	(2000.0)	P		Q	
<i>n</i>	0.26921403	ω	346.78992	+0.31936536	−0.93899929	
<i>a</i>	2.3754046	Ω	84.47199	+0.88067408	+0.24437344	
<i>e</i>	0.0951127	<i>i</i>	7.36636	+0.34988417	+0.24199578	
<i>P</i>	3.66	<i>H</i>	15.0	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1997 06 29	704	0.0	0.0	1998 12 18	557	0.3+	0.7+	2000 04 04	704	0.8+	0.2−
1997 06 29	704	0.6+	0.3+	1999 01 05	557	0.1+	0.3+	2000 04 04	704	0.3+	0.3−
1997 06 29	704	0.2+	0.6+	1999 01 05	557	0.3−	0.3+	2000 04 04	704	1.5+	0.1−
1997 06 29	704	0.8−	0.8−	1999 01 05	557	0.4−	0.8+	2000 04 04	704	0.9−	0.7+
1998 11 24	704	0.3+	0.3−	1999 01 17	557	0.1+	0.0	2000 04 04	704	1.3+	0.8−
1998 11 24	704	0.5+	0.4−	1999 01 17	557	0.0	0.1+	2000 04 04	557	0.1−	1.9−
1998 11 24	704	0.8+	0.1+	1999 01 23	691	0.5−	0.1−	2000 04 05	557	1.3−	1.4−
1998 11 24	704	0.9+	0.4+	1999 01 23	691	0.8−	0.1−	2000 04 07	699	0.7−	0.9+
1998 11 24	704	0.9−	0.8+	1999 01 23	691	1.0−	0.0	2000 04 07	699	0.3+	0.6+
1998 12 11	557	0.5−	0.2−	1999 02 06	557	0.1+	0.1+	2000 04 07	699	0.5−	0.5+
1998 12 11	557	0.2+	0.6−	1999 02 06	557	0.2+	0.5−	2000 04 07	699	1.0−	0.6+
1998 12 12	691	0.3+	0.5−	1999 02 06	557	0.0	0.2−	2000 04 09	557	0.9−	0.1+
1998 12 12	691	0.1+	0.7−	1999 02 10	557	0.3+	0.3−	2000 04 09	557	1.5−	0.8−
1998 12 12	691	0.2+	0.7−	1999 02 10	557	0.1+	0.1−	2000 04 09	699	0.8+	0.0
1998 12 15	557	0.4−	0.2−	2000 02 08	704	1.3+	0.0	2000 04 09	699	0.4+	0.4+
1998 12 15	557	0.1−	0.5+	2000 02 08	704	0.2−	0.6+	2000 04 09	699	0.1+	0.5+
1998 12 18	557	0.2−	0.3+	2000 02 08	704	1.0+	0.1+	2000 04 09	699	0.1−	0.3+

1998 XH₁₁ = 2000 GP₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	76.48121	(2000.0)	P		Q	
<i>n</i>	0.22218696	ω	25.18053	−0.14398379	−0.96377000	
<i>a</i>	2.6997507	Ω	73.75438	+0.86373877	−0.23312708	
<i>e</i>	0.1323857	<i>i</i>	13.52523	+0.48293272	+0.12961152	
<i>P</i>	4.44	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 08 31	704	0.8−	0.4+	1998 12 15	132	1.0+	0.6−	2000 04 04	699	0.6−	0.1+
1998 08 31	704	1.4−	1.2+	1998 12 22	132	(0.2+	2.2+)	2000 04 04	699	0.4−	0.5+
1998 08 31	704	0.6−	0.7+	1998 12 22	132	0.1−	0.7−	2000 04 04	699	0.5+	0.2+
1998 08 31	704	0.5−	1.3+	1999 01 06	132	0.2−	0.9+	2000 04 04	699	0.1+	0.0

2000 APR. 18

M.P.C. 40051

1998 11 20	910	2.0+	0.4-	1999 01 06	132	0.5-	0.4+	2000 04 05	704	0.4-	0.2-
1998 11 20	910	1.7+	0.2-	1999 01 19	132	0.1-	0.1-	2000 04 05	704	0.2-	0.3+
1998 11 20	910	1.9+	0.2-	1999 01 19	132	0.5-	0.3+	2000 04 05	704	0.3+	0.4-
1998 11 24	704	0.0	0.5-	1999 01 19	132	0.3+	0.5-	2000 04 05	704	0.1+	0.2-
1998 11 24	704	0.4-	0.1-	1999 01 22	699	0.7-	0.7-	2000 04 05	704	0.6-	0.3-
1998 11 24	704	0.7-	0.5-	1999 01 22	699	0.1+	1.2+	2000 04 08	704	0.3+	0.2+
1998 11 24	704	0.8-	1.1+	1999 01 22	699	(0.1-	2.3-)	2000 04 08	704	0.3+	0.3+
1998 12 08	132	1.6-	0.5-	2000 02 06	704	0.8-	0.5-	2000 04 08	704	0.1+	0.2-
1998 12 08	132	0.5-	0.2+	2000 02 06	704	0.2+	0.5+	2000 04 08	704	0.0	0.3+
1998 12 09	132	0.2+	0.6+	2000 02 06	704	0.2-	0.7+	2000 04 08	704	0.6+	0.3-
1998 12 15	704	0.3-	0.1-	2000 02 06	704	1.4+	0.4-	2000 04 13	704	0.3-	0.0
1998 12 15	704	(0.5-	3.0+)	2000 03 02	703	0.4+	0.3-	2000 04 13	704	0.1+	0.3+
1998 12 15	704	0.9-	0.6-	2000 03 02	703	0.9-	0.1+	2000 04 13	704	0.1+	0.3-
1998 12 15	704	0.6+	1.3-	2000 03 02	703	0.4+	0.7+	2000 04 13	704	0.5-	0.6+
1998 12 15	132	1.0+	0.7+	2000 03 02	703	0.4+	0.6-	2000 04 13	704	0.6+	0.2+

1998 XJ₁₁ = 2000 EM₁₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.19419		(2000.0)		P		Q
<i>n</i>	0.17981541	ω	306.57058		+0.75084971		-0.62685929
<i>a</i>	3.1087427	Ω	93.21482		+0.65276225		+0.65633026
<i>e</i>	0.1160484	<i>i</i>	12.02553		+0.10062885		+0.41985477
<i>P</i>	5.48	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 13	411	0.8-	0.4-	1999 01 05	411	0.7-	0.9-	2000 03 12	704	0.3-	0.0
1998 12 13	411	0.3-	0.0	1999 01 05	411	0.7-	0.0	2000 03 12	704	0.3+	0.5-
1998 12 14	704	0.9+	0.6+	1999 01 15	411	0.3-	0.6-	2000 03 12	704	0.4+	0.7+
1998 12 14	704	0.4+	0.6-	1999 01 15	411	0.1-	0.5-	2000 03 29	704	0.5-	0.2-
1998 12 14	704	0.7+	1.2+	1999 01 16	704	0.5+	0.9-	2000 03 29	704	0.1+	0.5+
1998 12 14	704	0.8+	0.4+	1999 01 16	704	(0.8+	2.1+)	2000 03 29	704	0.6+	1.1-
1998 12 14	704	(0.2-	2.6-)	1999 01 16	704	0.7+	0.1+	2000 03 29	704	0.8-	1.2-
1998 12 16	411	0.7-	0.6+	1999 01 16	704	0.6+	0.4+	2000 04 04	704	0.6-	0.2-
1998 12 16	411	0.0	0.4-	1999 01 19	704	0.5-	0.6-	2000 04 04	704	0.5+	0.7-
1998 12 17	704	0.8+	1.6-	1999 01 19	704	0.6+	0.3-	2000 04 04	704	1.3-	1.2+
1998 12 17	704	1.1-	0.2+	1999 01 19	704	0.2-	1.4+	2000 04 04	704	1.1-	0.5-
1998 12 17	704	(0.7-	2.5-)	2000 02 04	704	0.0	1.3+	2000 04 08	704	0.0	0.3-
1998 12 17	704	0.4+	0.6-	2000 02 04	704	1.0+	1.3+	2000 04 08	704	0.3-	0.1-
1998 12 17	704	(4.6-	1.0-)	2000 02 04	704	0.8-	1.1+	2000 04 08	704	0.1-	0.1-
1998 12 22	411	0.7+	0.0	2000 02 04	704	1.0-	1.3+	2000 04 08	704	0.5-	0.5-
1998 12 22	411	1.1+	0.0	2000 03 08	608	1.6+	0.8-	2000 04 08	704	0.2-	0.4+
1998 12 26	411	1.0-	0.9+	2000 03 08	608	1.5+	0.3-				
1998 12 26	411	1.5-	1.6+	2000 03 08	608	1.6+	0.5-				

1998 XH₁₂ = 1998 UD₃₂ = 2000 FB₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	345.54248		(2000.0)		P		Q
<i>n</i>	0.24242486	ω	129.24137		-0.94399358		+0.32016493
<i>a</i>	2.5473265	Ω	69.56187		-0.32286479		-0.84634729
<i>e</i>	0.1153824	<i>i</i>	4.88624		-0.06807678		-0.42566499
<i>P</i>	4.07	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 04 07	691	(0.5+	3.0-)	1998 12 25	327	1.0-	0.2+	2000 04 04	704	0.3+	0.1+
1992 04 07	691	0.4+	0.7+	1998 12 25	327	0.0	0.0	2000 04 04	704	0.4+	0.1+
1992 04 07	691	(0.6+	3.7+)	1999 01 05	699	0.3+	1.3-	2000 04 04	704	0.1+	0.2+
1998 10 27	327	(4.6+	1.3+)	1999 01 05	699	0.1-	0.5+	2000 04 04	704	0.3+	0.2-
1998 10 27	327	(4.8+	0.6+)	1999 01 05	699	0.9-	0.0	2000 04 04	704	0.2+	0.5-
1998 10 27	327	(3.9+	0.9+)	2000 01 08	704	0.2-	1.1-	2000 04 08	049	0.5+	0.2+
1998 11 09	327	(3.4+	0.4+)	2000 01 08	704	1.3-	0.8-	2000 04 08	049	0.4+	0.2+
1998 11 09	327	(3.8+	0.2+)	2000 01 08	704	0.5-	1.8-	2000 04 08	049	0.1+	0.2+
1998 11 09	327	(3.3+	0.1-)	2000 01 08	704	1.2-	1.8-	2000 04 08	704	0.6-	0.2+
1998 11 24	704	(2.6+	0.0)	2000 03 08	704	1.4+	0.8-	2000 04 08	704	0.5-	0.4+
1998 11 24	704	(3.0+	0.6-)	2000 03 08	704	1.6+	0.5-	2000 04 08	704	0.4-	0.8+
1998 11 24	704	1.7+	0.4-	2000 03 08	704	1.4+	1.0-	2000 04 08	704	0.5-	0.4+
1998 11 24	704	1.1+	0.5-	2000 03 08	704	0.8+	0.3-	2000 04 08	704	0.8-	1.2+

1998 11 24	704	(2.5+	0.7+)	2000 03 28	049	0.6+	1.5-	2000 04 08	049	1.1+	0.1+
1998 12 04	327	0.2+	0.3+	2000 03 28	049	0.5+	1.5-	2000 04 08	049	1.1+	0.3+
1998 12 04	327	0.9+	0.4-	2000 03 28	049	0.4+	1.4-	2000 04 09	049	0.7+	0.2+
1998 12 04	327	0.9+	0.1+	2000 03 29	704	0.4+	0.6+	2000 04 10	704	0.8-	0.5+
1998 12 13	327	0.5-	0.8+	2000 03 29	704	0.3+	0.2+	2000 04 10	704	0.9-	0.3+
1998 12 13	327	0.3-	0.6+	2000 03 29	704	0.6+	0.2+	2000 04 10	704	1.1-	0.6+
1998 12 13	327	0.2-	0.6+	2000 03 29	704	0.3+	0.3+	2000 04 10	704	1.0-	0.6+
1998 12 17	704	0.5-	0.2-	2000 03 29	704	0.7+	0.2+	2000 04 10	704	0.8-	0.5+
1998 12 17	704	0.6-	0.1+	2000 03 31	049	0.6+	1.3-	2000 04 13	704	1.7-	1.3+
1998 12 17	704	1.3-	0.8+	2000 03 31	049	0.6+	1.5-	2000 04 13	704	1.6-	1.3+
1998 12 17	704	0.5-	0.3-	2000 03 31	049	0.3+	1.2-	2000 04 13	704	0.8-	0.8+
1998 12 25	327	0.4-	1.1+	2000 04 02	699	0.1+	0.7+	2000 04 13	704	1.2-	1.1+
1998 12 25	327	0.3+	0.4+	2000 04 02	699	0.3+	0.1+	2000 04 13	704	1.2-	1.3+
1998 12 25	327	0.4-	0.1+	2000 04 02	699	0.0	0.4+				
1998 12 25	327	0.0	0.5+	2000 04 02	699	0.2+	0.1-				

1998 XC₁₄ = 2000 GO₁₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	17.98043		(2000.0)		P		Q
<i>n</i>	0.24209984	ω	79.76715		-0.99547409		-0.03204665
<i>a</i>	2.5496058	Ω	98.35512		-0.00479716		-0.92328235
<i>e</i>	0.1802449	<i>i</i>	5.18816		+0.09491215		-0.38278287
<i>P</i>	4.07	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	566	0.2-	0.3+	1998 12 22	910	0.4-	0.6-	2000 04 07	704	0.1-	0.5-
1998 11 16	566	0.3-	0.0	1998 12 22	910	0.6-	0.4-	2000 04 07	704	1.0-	0.3+
1998 11 16	566	0.7-	0.0	1998 12 22	910	0.5-	0.4-	2000 04 12	704	0.6+	0.9-
1998 11 24	704	0.9+	0.2+	1999 01 07	699	0.8-	0.2+	2000 04 12	704	0.1+	0.7+
1998 11 24	704	1.0+	0.0	1999 01 07	699	0.2-	0.5+	2000 04 12	704	0.4-	0.6+
1998 11 24	704	0.1+	0.3+	1999 01 07	699	0.6-	0.0	2000 04 12	704	0.1+	0.3-
1998 11 24	704	1.0-	0.1+	2000 02 10	704	1.5+	1.6-	2000 04 12	704	0.2-	0.2+
1998 12 15	910	1.0+	0.2+	2000 02 10	704	1.0-	0.0	2000 04 13	704	0.6+	0.4-
1998 12 15	910	0.8+	0.2+	2000 02 10	704	0.5-	0.4-	2000 04 13	704	0.3-	0.2+
1998 12 16	910	0.9+	0.2+	2000 02 10	704	0.3-	0.1-	2000 04 13	704	0.1+	0.5+
1998 12 16	910	0.1+	0.0	2000 02 10	704	0.2+	0.8+	2000 04 13	704	0.2+	0.3+
1998 12 16	910	0.1+	0.1+	2000 04 07	704	1.1+	0.6-	2000 04 13	704	1.2-	0.7+
1998 12 16	910	0.0	0.0	2000 04 07	704	0.6+	0.2+				

1998 XD₁₄ = 2000 EF₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	347.02201		(2000.0)		P		Q
<i>n</i>	0.23891072	ω	117.35316		-0.92737475		+0.28626818
<i>a</i>	2.5722447	Ω	80.10498		-0.36589491		-0.82832909
<i>e</i>	0.1125803	<i>i</i>	14.15374		+0.07808327		-0.48158223
<i>P</i>	4.13	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	910	0.6+	0.2-	2000 03 11	703	0.3+	0.2+	2000 04 04	704	0.8-	0.7-
1998 12 15	910	0.9+	0.0	2000 03 11	703	0.3+	1.0+	2000 04 04	704	0.5-	0.2-
1998 12 16	910	0.6+	0.3-	2000 03 15	704	0.6+	0.2-	2000 04 04	704	0.5+	1.6+
1998 12 16	910	0.0	0.2-	2000 03 15	704	0.1+	0.2-	2000 04 08	704	0.3-	0.1+
1998 12 16	910	0.3+	0.2-	2000 03 15	704	0.1-	0.1-	2000 04 08	704	0.5-	0.0
1998 12 16	910	0.3+	0.3-	2000 03 15	704	0.2+	0.3-	2000 04 08	704	0.1-	1.1-
1999 01 23	691	0.3+	0.2+	2000 03 15	704	0.3-	0.8-	2000 04 08	704	0.2-	0.8-
1999 01 23	691	0.0	0.0	2000 03 29	704	0.2+	0.2+	2000 04 14	704	0.5+	0.0
1999 01 23	691	0.0	0.1+	2000 03 29	704	0.3-	0.0	2000 04 14	704	0.0	0.2-
1999 01 24	691	1.2-	0.2-	2000 03 29	704	0.4-	0.5-	2000 04 14	704	0.7+	0.6+
1999 01 24	691	0.9-	0.8+	2000 03 29	704	0.7-	0.3+	2000 04 14	704	0.7-	0.3-
1999 01 24	691	1.4-	0.2+	2000 03 29	704	0.5-	0.4+	2000 04 14	704	1.3+	0.8-
2000 03 11	703	0.5+	0.1+	2000 04 04	704	0.5-	0.4+				
2000 03 11	703	0.2+	0.3+	2000 04 04	704	0.3+	0.7+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	308.82713		(2000.0)	P	Q
<i>n</i>	0.28701711	ω	88.32360	-0.35924727	+0.93309459
<i>a</i>	2.2761324	Ω	160.59693	-0.87488385	-0.33053411
<i>e</i>	0.1252887	<i>i</i>	2.86583	-0.32483788	-0.14170987
<i>P</i>	3.43	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 15	910	0.4+	0.1-	2000 04 02	699	0.6+	0.6+	2000 04 06	704	0.2-	0.6-
1998 12 16	910	0.4+	0.1+	2000 04 02	699	0.4-	0.2+	2000 04 06	704	0.0	0.7-
1998 12 16	910	0.3+	0.1+	2000 04 02	699	0.5+	0.7+	2000 04 06	704	0.1-	0.1-
1998 12 16	910	0.3+	0.2+	2000 04 02	699	0.4+	1.0+	2000 04 06	704	0.4+	0.7-
1998 12 16	910	0.0	0.1+	2000 04 03	699	0.5+	0.1-	2000 04 07	704	0.4+	0.5-
1998 12 16	910	0.6+	0.0	2000 04 03	699	0.2-	0.1+	2000 04 07	704	0.5+	0.4-
1998 12 25	910	0.5-	0.0	2000 04 03	699	0.1-	0.4+	2000 04 07	704	0.2-	0.1-
1998 12 25	910	0.6-	0.1-	2000 04 03	699	0.4+	0.2+	2000 04 07	704	0.4-	0.0
1998 12 26	910	0.9-	0.4-	2000 04 05	704	0.3-	0.4-	2000 04 07	704	0.4+	1.2+
2000 03 29	704	0.3+	0.2+	2000 04 05	704	0.1-	0.5-	2000 04 08	704	0.3-	0.7-
2000 03 29	704	0.2-	0.3-	2000 04 05	704	0.0	0.2-	2000 04 08	704	0.5-	0.3-
2000 03 29	704	0.3-	1.4+	2000 04 05	704	0.2-	0.6-	2000 04 08	704	0.1-	0.1-
2000 03 29	704	0.1-	0.1-	2000 04 05	704	0.2+	0.3-	2000 04 08	704	0.5-	0.2-
2000 03 29	704	0.5-	0.5+	2000 04 06	704	0.1-	0.7-	2000 04 08	704	0.0	1.0+

1998 XV₁₅ = 2000 EM₄₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	289.26053		(2000.0)	P	Q
<i>n</i>	0.25885823	ω	267.29547	-0.25945926	+0.96553288
<i>a</i>	2.4383426	Ω	347.60743	-0.84339087	-0.23695930
<i>e</i>	0.0644544	<i>i</i>	5.52634	-0.47050264	-0.10768725
<i>P</i>	3.81	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 15	595	0.3-	0.1-	2000 03 09	704	0.3+	0.6-	2000 03 11	704	0.3-	0.2-
1998 12 15	595	0.0	0.5-	2000 03 09	704	0.4-	0.2+	2000 03 11	704	0.0	0.1+
1998 12 15	595	0.3-	0.3-	2000 03 09	704	0.4+	0.6+	2000 03 11	704	0.2+	0.0
1998 12 16	595	0.3-	0.0	2000 03 09	704	1.0-	0.2-	2000 03 11	704	0.2+	0.2+
1998 12 16	595	0.9+	1.0+	2000 03 09	704	0.2-	0.1-	2000 03 11	704	0.4-	0.2-
1998 12 16	595	0.3-	0.0	2000 03 10	704	0.6-	0.3+	2000 04 07	699	0.8+	0.8+
1998 12 22	595	0.5+	1.2+	2000 03 10	704	0.1+	0.3+	2000 04 07	699	0.7-	0.7-
1998 12 22	595	0.5+	0.4-	2000 03 10	704	0.2+	0.0	2000 04 07	699	0.2-	0.2-
1998 12 23	595	0.2-	0.6-	2000 03 10	704	0.6+	0.5-	2000 04 07	699	0.0	0.1+
1998 12 23	595	0.5-	0.3-	2000 03 10	704	1.0+	0.2+				

1998 XJ₁₆ = 2000 FQ₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.14517		(2000.0)	P	Q
<i>n</i>	0.27387022	ω	302.42895	+0.86101895	-0.45820381
<i>a</i>	2.3484042	Ω	85.70027	+0.50829567	+0.76099657
<i>e</i>	0.2276795	<i>i</i>	12.78503	+0.01678929	+0.45927496
<i>P</i>	3.60	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 14	704	0.6+	0.9-	1999 01 19	704	0.0	0.7+	2000 04 05	704	0.1+	0.3+
1998 12 14	704	(2.3-	0.4-)	1999 04 06	704	0.3+	1.0-	2000 04 05	704	0.0	0.1-
1998 12 14	704	0.1+	1.0-	1999 04 06	704	1.0-	0.0	2000 04 05	704	0.8-	0.3+
1998 12 14	704	0.6-	1.1-	1999 04 06	704	0.2+	0.6-	2000 04 05	704	0.1-	0.2+
1998 12 14	704	0.4-	0.9-	1999 04 06	704	0.3-	0.8-	2000 04 05	704	0.1-	0.1+
1998 12 17	704	0.2-	0.3+	1999 04 06	704	(2.9-	2.2+)	2000 04 07	699	0.3+	0.3+
1998 12 17	704	0.3-	0.1+	2000 02 06	704	0.7-	0.8+	2000 04 07	699	0.7+	0.4+
1998 12 17	704	0.0	0.1+	2000 02 06	704	0.2-	0.6+	2000 04 07	699	0.1-	0.2+
1998 12 17	704	1.3-	0.4+	2000 02 06	704	0.6+	0.4+	2000 04 07	699	0.5-	0.3+
1998 12 17	704	0.7+	0.7+	2000 03 29	049	0.0	0.5-	2000 04 08	704	0.1-	0.5-
1999 01 16	704	1.0+	0.5+	2000 03 29	049	0.1-	0.2-	2000 04 08	704	0.3-	0.5+
1999 01 16	704	(2.5-	0.5+)	2000 03 29	049	0.1+	0.1-	2000 04 08	704	0.3+	0.2+

1999 01 16	704	(3.2+	0.4+)	2000 03 29	049	0.1+	0.5-	2000 04 13	704	0.5-	0.0
1999 01 16	704	(2.5-	0.5+)	2000 03 29	049	0.0	0.2-	2000 04 13	704	0.1-	0.0
1999 01 19	704	0.4+	0.4+	2000 03 29	049	0.2+	0.6-	2000 04 13	704	0.1+	0.1-
1999 01 19	704	(2.6+	1.4+)	2000 03 31	049	0.2+	0.3-	2000 04 13	704	0.3-	0.2-
1999 01 19	704	0.1-	1.5+	2000 04 01	049	0.6+	0.6-	2000 04 13	704	0.1+	0.0
1999 01 19	704	0.3+	0.5+	2000 04 01	049	0.4+	0.4-				

1998 XU₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	27.05630		(2000.0)	P	Q
<i>n</i>	0.17570121	ω	87.94632	-0.97453895	-0.12409365
<i>a</i>	3.1570845	Ω	84.88871	+0.03845330	-0.91304218
<i>e</i>	0.0623519	<i>i</i>	10.80651	+0.22089630	-0.38852896
<i>P</i>	5.61	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 12 15	120	0.5-	0.9+	1999 01 20	120	0.3-	0.2-	1999 02 18	699	0.2-	0.6+
1998 12 15	120	0.0	0.4+	1999 01 20	120	1.4+	0.3-	1999 02 18	699	0.6-	0.7+
1998 12 16	120	0.1-	0.1-	1999 01 20	120	0.0	0.1-	1999 05 17	703	0.8+	0.3+
1998 12 18	120	0.5+	0.7+	1999 01 20	120	1.3+	0.4-	1999 05 17	703	0.2+	0.5+
1998 12 18	120	0.1-	0.7+	1999 02 10	704	0.3+	0.4-	1999 05 17	703	0.6-	0.5+
1998 12 22	120	0.7-	1.1-	1999 02 10	704	0.0	0.4-	1999 05 17	703	0.2+	0.7+
1998 12 22	120	0.0	0.2-	1999 02 10	704	0.4+	0.3-	2000 04 07	699	0.1-	0.3+
1998 12 23	120	0.5-	0.1-	1999 02 10	704	0.2+	0.9-	2000 04 07	699	0.2-	0.5+
1999 01 16	120	0.9+	0.1+	1999 02 10	704	0.4+	0.9-	2000 04 07	699	0.2+	0.5-
1999 01 16	120	0.1-	0.1-	1999 02 13	704	0.9-	1.6+	2000 04 07	699	0.4-	0.1-
1999 01 16	120	0.0	0.0	1999 02 13	704	1.9-	0.1-	2000 04 09	699	0.4+	0.5+
1999 01 19	120	0.3-	0.3-	1999 02 13	704	1.8-	2.0+	2000 04 09	699	0.5+	0.7-
1999 01 19	120	0.6+	0.0	1999 02 13	704	0.1+	0.5-	2000 04 09	699	0.1-	0.6-
1999 01 19	120	0.1+	0.3-	1999 02 13	704	0.7+	2.0-	2000 04 09	699	0.5-	0.2+
1999 01 19	120	0.4+	0.2-	1999 02 18	699	0.0	0.1+				

1998 XM₁₈ = 2000 EB₁₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	54.87965		(2000.0)	P	Q
<i>n</i>	0.17381850	ω	334.23662	-0.05450068	-0.99846218
<i>a</i>	3.1798408	Ω	118.88612	+0.91811026	-0.05410430
<i>e</i>	0.1327328	<i>i</i>	0.66394	+0.39255985	-0.01208262
<i>P</i>	5.67	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 08	691	0.2+	0.1+	1999 02 10	691	0.2-	0.2-	2000 03 03	704	0.2+	0.7+
1998 12 08	691	0.4+	0.1-	1999 02 10	691	0.6-	0.5-	2000 03 03	704	0.3+	0.4+
1998 12 08	691	0.2+	0.1+	1999 02 10	691	0.8-	0.0	2000 03 11	704	0.9-	0.2+
1998 12 14	691	0.6-	0.0	1999 02 14	691	0.5+	0.2-	2000 03 11	704	0.2-	0.5+
1998 12 14	691	0.8-	0.5+	1999 02 14	691	0.0	0.1+	2000 03 11	704	0.0	0.2+
1998 12 14	691	0.3-	0.2+	1999 02 14	691	0.2+	0.4-	2000 03 11	704	0.4+	0.1-
1999 01 23	691	0.6+	0.2+	2000 03 03	704	0.4+	0.5-	2000 03 15	691	0.4-	0.8-
1999 01 23	691	0.5+	0.3-	2000 03 03	704	0.3-	0.7+	2000 03 15	691	0.2-	0.6-
1999 01 23	691	1.0+	0.1+	2000 03 03	704	1.0+	0.4+	2000 03 15	691	0.3-	0.8-

1998 XR₂₀ = 2000 GK₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.25870		(2000.0)	P	Q
<i>n</i>	0.19943579	ω	207.08034	+0.17230901	-0.98493873
<i>a</i>	2.9013535	Ω	233.00096	+0.90697696	+0.16431168
<i>e</i>	0.0611737	<i>i</i>	1.02799	+0.38432071	+0.05382721
<i>P</i>	4.94	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 10 21	691	0.0	0.0	1998 12 14	691	0.6-	0.0	1998 12 25	120	0.3-	0.8+
1997 10 21	691	0.1+	0.6+	1998 12 16	699	1.3+	0.4+	1998 12 25	120	0.1-	0.6+
1997 10 21	691	0.4+	0.6+	1998 12 16	699	0.4+	0.1+	1998 12 27	120	1.1+	0.2+
1997 10 30	704	(3.7+	4.3+)	1998 12 16	699	0.1-	0.0	1999 01 07	691	0.5-	0.3-
1997 10 30	704	(3.9+	6.4+)	1998 12 22	704	0.1-	0.2+	1999 01 07	691	0.2-	0.2-

2000 APR. 18

M.P.C. 40053

1997 10 30	704	0.9−	0.4−	1998 12 22	704	(2.1+	0.7−)	1999 01 07	691	0.3−	0.4−
1997 10 30	704	(4.9−	1.9+)	1998 12 22	704	0.8+	0.8+	2000 04 05	704	0.8−	0.0
1998 10 23	691	0.4−	0.2−	1998 12 22	704	0.6+	0.1−	2000 04 05	704	0.1−	0.2+
1998 10 23	691	0.0	0.1−	1998 12 22	704	(3.5−	0.8+)	2000 04 05	704	0.5−	0.4+
1998 10 23	691	0.4−	0.2−	1998 12 23	691	0.1−	0.0	2000 04 05	704	0.4+	0.4+
1998 11 14	691	0.2+	0.5−	1998 12 23	691	0.1+	0.2+	2000 04 05	704	0.4+	0.1−
1998 11 14	691	0.6+	0.1+	1998 12 23	691	0.1+	0.1−	2000 04 06	704	0.1+	0.6+
1998 11 14	691	0.4+	0.1+	1998 12 23	120	(2.7+	2.5−)	2000 04 06	704	0.4+	0.6+
1998 12 10	691	0.7−	0.8−	1998 12 23	120	0.8+	0.0	2000 04 06	704	0.2+	0.4+
1998 12 10	691	0.0	0.6−	1998 12 24	120	0.9−	0.8−	2000 04 06	704	0.9+	0.1−
1998 12 10	691	0.6−	0.2+	1998 12 25	120	0.2−	0.7+	2000 04 11	691	0.2−	0.5−
1998 12 14	691	0.3−	1.4+	1998 12 25	120	0.3−	1.6−	2000 04 11	691	0.4−	0.5−
1998 12 14	691	0.5−	0.2−	1998 12 25	120	0.4+	0.6+	2000 04 11	691	0.1−	0.5−

1998 XF₂₆ = 2000 DE₂₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	26.09703		(2000.0)	P	Q
n	0.17333999	ω	344.09098	−0.50329365	−0.86390099
a	3.1856901	Ω	136.12231	+0.79580799	−0.47207501
e	0.0944202	i	1.59154	+0.33672711	−0.17555704
P	5.69	H	14.6	G 0.15	U 4

Residuals in seconds of arc

1998 12 08	910	0.1+	0.1−	2000 02 29	704	0.0	0.2−	2000 03 10	691	0.2−	0.1+
1998 12 08	910	0.2−	0.4+	2000 02 29	704	0.0	0.1+	2000 03 10	691	0.0	0.6+
1998 12 08	910	0.6−	0.0	2000 02 29	704	1.0−	0.6+	2000 03 10	691	0.0	0.0
1998 12 15	910	0.1+	0.5−	2000 02 29	704	0.3+	0.1+	2000 03 11	704	0.1−	0.2−
1998 12 15	910	0.5+	0.4−	2000 03 03	704	0.2+	0.1−	2000 03 11	704	0.0	0.1−
1998 12 15	910	0.3+	0.4−	2000 03 03	704	0.2+	0.4−	2000 03 11	704	0.2+	0.6−
1998 12 21	910	0.2−	0.4+	2000 03 03	704	1.0−	0.6+	2000 03 11	704	0.2−	0.5−
1998 12 21	910	0.3+	0.1+	2000 03 03	704	1.2+	0.5+	2000 03 11	704	0.5−	0.8−
1998 12 21	910	0.3−	0.5+	2000 03 03	704	0.2−	0.9−	2000 03 11	699	0.2−	0.2+
2000 02 02	703	0.3−	0.0	2000 03 05	704	0.3−	0.1−	2000 03 11	699	0.4−	0.1+
2000 02 02	703	0.4+	0.2−	2000 03 05	704	0.7−	0.1−	2000 03 11	699	0.2−	0.0
2000 02 02	703	2.0−	0.4−	2000 03 05	704	0.7+	0.6+	2000 03 11	699	0.1−	0.7+
2000 02 02	703	1.0+	0.6−	2000 03 05	704	0.2+	0.2+	2000 03 12	691	0.3−	0.4−
2000 02 25	703	0.2+	0.5+	2000 03 05	704	0.3+	0.5+	2000 03 12	691	0.0	0.3−
2000 02 25	703	1.3+	0.5+	2000 03 06	704	0.0	0.3+	2000 03 12	691	0.0	0.4−
2000 02 25	703	0.5+	0.6+	2000 03 06	704	0.5+	0.2+				
2000 02 25	703	0.0	0.2−	2000 03 06	704	0.4+	0.5−				

1998 XM₂₉

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	215.00168		(2000.0)	P	Q
n	0.27362822	ω	0.32167	+0.78285497	+0.61800757
a	2.3497886	Ω	321.20320	−0.57111804	+0.66772062
e	0.1378275	i	6.61186	−0.24690540	+0.41498893
P	3.60	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1998 12 14	704	0.4−	0.2+	1998 12 23	046	0.0	0.3+	2000 03 08	704	0.1+	0.7+
1998 12 14	704	0.3+	1.3−	1998 12 23	046	0.1−	0.5+	2000 03 08	704	0.4−	0.6−
1998 12 14	704	1.5−	1.1−	1998 12 23	046	0.5−	0.3+	2000 03 08	704	0.1−	0.4+
1998 12 14	704	2.0+	0.1−	1998 12 23	046	0.5−	0.0	2000 04 02	699	0.4−	0.0
1998 12 17	704	1.3+	1.5+	1999 01 21	046	0.5+	0.1−	2000 04 02	699	0.1−	0.8−
1998 12 17	704	(2.8+	0.4+)	1999 01 21	046	0.1−	0.4+	2000 04 02	699	0.1+	0.4−
1998 12 17	704	(2.1+	2.1−)	1999 01 21	046	0.1+	0.4−	2000 04 02	699	0.4+	0.4+
1998 12 23	046	0.5−	0.1−	1999 01 21	046	0.1−	0.5−				
1998 12 23	046	0.6−	0.2+	2000 03 08	704	0.5+	0.2+				

1998 XS₃₉ = 2000 CU₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	154.90262		(2000.0)	P	Q
n	0.22404004	ω	62.70248	+0.98137419	−0.06278735
a	2.6848433	Ω	300.38874	−0.03416007	+0.87298389
e	0.2322074	i	12.15000	+0.18904443	+0.48369090
P	4.40	H	13.0	G 0.15	U 3

Residuals in seconds of arc

1998 11 16	704	0.4+	0.8−	1998 12 29	886	0.2+	0.2−	2000 02 10	704	0.5+	0.0
1998 11 16	704	0.2+	0.2−	1998 12 29	886	1.4+	0.5+	2000 02 10	704	0.3+	0.5−
1998 11 16	704	0.2−	0.0	1998 12 29	886	0.2+	0.8+	2000 02 10	704	0.1−	0.4+
1998 11 16	704	0.2+	0.1−	1998 12 29	886	0.2−	0.1+	2000 02 10	704	0.7+	0.2+
1998 11 16	704	0.1+	0.3+	1999 01 16	704	0.0	0.7+	2000 03 09	704	0.8+	0.0
1998 12 14	704	0.3−	0.5+	1999 01 16	704	0.4−	1.3+	2000 03 09	704	0.8+	0.4−
1998 12 14	704	0.1+	0.5+	1999 01 16	704	0.1−	1.0+	2000 03 09	704	0.6+	0.4−
1998 12 14	704	1.5−	0.7+	1999 01 16	704	(2.6+	1.1+)	2000 03 09	704	0.0	0.6+
1998 12 14	704	0.2−	0.6+	1999 01 16	704	0.5−	0.7−	2000 03 09	704	0.7+	0.1−
1998 12 14	704	0.5−	0.2+	2000 01 11	704	0.1+	0.0	2000 04 04	699	0.1−	0.1+
1998 12 17	704	0.0	0.3+	2000 01 11	704	0.1+	0.3−	2000 04 04	699	0.6−	0.4+
1998 12 17	704	0.3+	0.5−	2000 01 11	704	1.1−	0.5−	2000 04 04	699	0.1−	0.2+
1998 12 17	704	0.5+	0.7−	2000 01 11	704	1.3−	0.5−	2000 04 04	699	0.0	0.1+
1998 12 17	704	1.3+	0.8−	2000 01 11	704	1.5−	1.2−	2000 04 07	704	0.3−	0.1−
1998 12 17	704	0.2+	1.4−	2000 02 07	704	0.2−	0.1+	2000 04 07	704	0.3−	0.7+
1998 12 24	886	0.3−	0.3−	2000 02 07	704	1.4−	0.6−	2000 04 07	704	0.4+	0.1−
1998 12 24	886	0.9−	0.4−	2000 02 07	704	0.7+	0.5−	2000 04 07	704	0.3−	1.4+
1998 12 29	886	0.1−	0.4−	2000 02 07	704	0.4+	1.6−	2000 04 07	704	0.6+	1.6+

1998 XA₄₀

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	67.42466		(2000.0)	P	Q		
n	0.18217878	ω	77.32023	−0.22741414	−0.97048325		
a	3.0817981	Ω	26.24680	+0.80809286	−0.23407689		
e	0.1509024	i	10.45910	+0.54338636	−0.05805400		
P	5.41	H	14.0	G	0.15	U	4

Residuals in seconds of arc

1998 11 16	704	1.5+	0.7−	1998 12 14	704	0.1−	0.3−	2000 03 08	704	0.8+	0.1−
1998 11 16	704	0.7−	0.4−	1998 12 14	704	1.4−	0.4+	2000 03 08	704	0.5−	0.1+
1998 11 16	704	(1.1+	2.8−)	1998 12 17	704	0.9+	0.3−	2000 04 04	704	0.3+	1.4+
1998 11 16	704	0.8+	1.3+	1998 12 17	704	0.1+	0.1−	2000 04 04	704	0.7+	0.4+
1998 11 16	704	0.0	1.1+	1998 12 17	704	0.4−	0.7+	2000 04 04	704	0.6+	0.2−
1998 12 09	327	0.5−	0.8+	2000 03 01	703	0.2+	0.6−	2000 04 04	704	0.3−	0.8+
1998 12 09	327	0.1+	0.2+	2000 03 01	703	1.6−	0.1+	2000 04 08	704	0.5+	0.3−
1998 12 09	327	1.2−	0.1−	2000 03 01	703	0.1−	0.2+	2000 04 08	704	0.4+	0.1−
1998 12 14	704	0.4+	1.1−	2000 03 01	703	1.0−	0.0	2000 04 08	704	0.2−	1.2−
1998 12 14	704	0.9+	1.2−	2000 03 08	704	0.4+	0.8−	2000 04 08	704	0.4−	0.1−
1998 12 14	704	0.2−	0.2+	2000 03 08	704	0.1+	0.9−	2000 04 08	704	0.3+	1.7+

1998 XU₄₀ = 2000 GS₁₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	88.44879		(2000.0)	P	Q
n	0.23005635	ω	34.76842	−0.24284497	−0.94509470
a	2.6378285	Ω	70.15588	+0.82892902	−0.31926901
e	0.1533656	i	13.44362	+0.50388789	+0.06973745
P	4.28	H	13.8	G 0.15	U 4

Residuals in seconds of arc

1998 12 14	704	0.7−	0.8+	1999 01 16	704	0.1−	0.1+	2000 04 07	704	0.1+	0.4−
1998 12 14	704	1.5+	0.2−	1999 01 16	704	1.5−	0.2−	2000 04 07	704	0.7−	0.2+
1998 12 14	704	0.4−	0.1+	1999 01 16	704	1.0+	0.3−	2000 04 07	704	0.1−	0.7−
1998 12 14	704	0.1+	0.3+	1999 01 19	704	0.6−	0.4+	2000 04 07	704	0.0	0.3−
1998 12 14	704	0.9−	0.1−	1999 01 19	704	0.8−	0.1+	2000 04 07	704	0.4+	0.1+
1998 12 17	704	0.3+	1.0+	1999 01 19	704	0.3+	0.4−	2000 04 12	704	0.6+	0.1−
1998 12 17	704	0.2+	1.7−	1999 01 19	704	0.9+	0.3+	2000 04 12	704	0.2+	0.0

1998 12 17	704	0.3−	0.1+	1999 01 19	704	0.2+	0.0	2000 04 12	704	0.3+	0.6+
1998 12 17	704	0.3+	0.0	2000 04 03	691	0.1−	0.1−	2000 04 12	704	0.3+	0.1+
1999 01 16	704	0.3+	0.1−	2000 04 03	691	0.0	0.2−	2000 04 12	704	1.2−	1.0+
1999 01 16	704	0.2+	0.1+	2000 04 03	691	0.0	0.2−				

1998 XE₄₅ = 1989 XO₂ = 2000 GO₉₁

Id. G. V. Williams, M. E. Sansaturio, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	110.49160		(2000.0)	P	Q		
<i>n</i>	0.22343076	ω	1.15220	+0.28498328	−0.92762963		
<i>a</i>	2.6897220	Ω	72.32732	+0.87739719	+0.15103430		
<i>e</i>	0.1586593	<i>i</i>	14.67802	+0.38595169	+0.34160198		
<i>P</i>	4.41	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 12 01	364	1.4+	0.8−	1998 12 17	704	1.5−	0.2+	2000 04 04	704	0.7+	0.3+
1989 12 01	364	0.4−	1.4−	1999 01 16	704	0.0	0.1+	2000 04 04	704	0.1−	0.7+
1996 06 13	566	0.4−	1.6−	1999 01 16	704	0.1−	0.3−	2000 04 07	699	0.1−	0.2−
1996 06 13	566	0.5−	1.9−	1999 01 16	704	0.0	0.4−	2000 04 07	699	0.2−	0.3+
1996 06 13	566	1.1−	1.1−	1999 01 16	704	1.1−	0.3+	2000 04 07	699	0.2−	0.0
1998 12 14	704	0.7+	0.3−	1999 01 16	704	1.7−	1.8+	2000 04 07	699	0.4+	0.1+
1998 12 14	704	1.0+	0.9−	1999 01 19	704	0.6+	1.0+	2000 04 08	704	0.7+	0.1−
1998 12 14	704	0.6+	1.3−	1999 01 19	704	1.3+	1.2+	2000 04 08	704	0.1−	0.9+
1998 12 14	704	0.7+	0.5−	1999 01 19	704	0.1−	0.2+	2000 04 08	704	0.3−	0.2−
1998 12 14	704	0.7+	1.0−	1999 01 19	704	1.0+	0.4−	2000 04 09	699	0.6−	0.3−
1998 12 17	704	(2.1+ 0.9−)		2000 04 04	704	0.1+	0.1−	2000 04 09	699	0.2−	0.2−
1998 12 17	704	0.9−	0.8−	2000 04 04	704	0.6+	0.1−	2000 04 09	699	0.0	0.1−
1998 12 17	704	1.1−	0.0	2000 04 04	704	0.2−	0.2−	2000 04 09	699	1.0−	0.4−

1998 XN₄₆ = 2000 GU₆₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	200.65619		(2000.0)	P	Q		
<i>n</i>	0.30796476	ω	322.88135	+0.99295766	−0.08716594		
<i>a</i>	2.1717110	Ω	42.33922	+0.11499106	+0.87204159		
<i>e</i>	0.1847541	<i>i</i>	6.84154	−0.02849812	+0.48160726		
<i>P</i>	3.20	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	0.1−	0.3−	1999 01 16	704	0.7+	0.1+	2000 04 05	704	0.2+	0.3+
1998 12 14	704	0.5−	0.5−	1999 01 16	704	(3.2+ 0.1+)		2000 04 06	704	0.3−	0.5−
1998 12 14	704	0.5+	0.8−	1999 01 16	704	1.3+	0.5+	2000 04 06	704	0.2+	0.1+
1998 12 14	704	0.4+	0.6−	1999 01 19	704	1.3−	1.3−	2000 04 06	704	0.3−	0.0
1998 12 14	704	(2.1− 2.2−)		1999 01 19	704	0.7−	0.3+	2000 04 06	704	0.3+	0.3+
1998 12 17	704	0.2−	0.6+	1999 01 19	704	0.8−	0.7+	2000 04 06	704	0.0	0.2+
1998 12 17	704	0.6+	0.1−	1999 01 19	704	0.8+	0.2−	2000 04 07	704	0.2−	0.0
1998 12 17	704	0.6−	0.1+	2000 04 05	704	0.2+	0.2+	2000 04 07	704	0.4−	0.2−
1998 12 17	704	0.3−	0.6+	2000 04 05	704	0.1−	0.3−	2000 04 07	704	0.5+	0.5−
1998 12 17	704	0.1−	0.7+	2000 04 05	704	0.2+	0.0	2000 04 07	704	0.5−	0.5+
1999 01 16	704	0.1+	0.1+	2000 04 05	704	0.0	0.2−	2000 04 07	704	0.3+	0.2−

1998 XC₄₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	174.34421		(2000.0)	P	Q		
<i>n</i>	0.26685749	ω	322.79211	+0.97307355	−0.22660022		
<i>a</i>	2.3893684	Ω	50.35908	+0.22245808	+0.87536067		
<i>e</i>	0.2103939	<i>i</i>	3.14089	+0.06033462	+0.42707850		
<i>P</i>	3.69	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 02 24	691	0.1+	0.1−	1999 01 16	704	0.2+	0.4−	2000 04 05	704	0.4+	0.3+
1992 02 24	691	0.1+	0.3−	1999 01 16	704	0.6−	0.1+	2000 04 05	704	1.1+	0.3+
1992 02 24	691	0.1−	0.6+	1999 01 16	704	0.1+	0.7−	2000 04 05	704	0.5−	0.6+
1998 12 14	704	0.5−	0.0	1999 01 16	704	0.3+	0.5+	2000 04 05	704	0.7+	0.7−
1998 12 14	704	0.8+	0.5+	1999 01 16	704	(1.6− 2.2−)		2000 04 05	704	0.6−	1.3−

1998 12 14	704	0.8+	0.2+	1999 01 19	704	0.7+	0.6+	2000 04 06	704	0.3−	1.2+
1998 12 14	704	0.7+	0.9−	1999 01 19	704	0.6+	0.4+	2000 04 06	704	0.6−	0.2+
1998 12 14	704	1.3+	1.4−	1999 01 19	704	0.1−	0.2+	2000 04 06	704	0.2−	0.3−
1998 12 17	704	1.1−	0.7+	1999 01 19	704	0.3+	0.1+	2000 04 06	704	0.1+	1.3−
1998 12 17	704	0.6−	0.2−	2000 03 09	704	0.3−	0.1+	2000 04 06	704	0.3−	0.3−
1998 12 17	704	1.2−	0.1+	2000 03 09	704	0.7+	0.4−				
1998 12 17	704	1.8−	0.1+	2000 03 09	704	0.3−	1.3+				

1998 XP₄₇ = 2000 GM₁₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	57.48259		(2000.0)	P	Q		
<i>n</i>	0.22049038	ω	69.35513	−0.73186071	−0.65750320		
<i>a</i>	2.7135820	Ω	69.06888	+0.53179342	−0.71538018		
<i>e</i>	0.0567414	<i>i</i>	11.05386	+0.42611694	−0.23647567		
<i>P</i>	4.47	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 14	704	0.7+	0.5−	1999 01 16	704	0.4+	0.5−	2000 04 07	704	0.0	0.6+
1998 12 14	704	0.5−	0.4+	1999 01 16	704	0.5+	1.0−	2000 04 07	704	0.4+	0.5−
1998 12 14	704	0.2−	1.0−	1999 01 16	704	1.4−	0.3+	2000 04 07	704	0.7+	0.3−
1998 12 14	704	0.6−	0.7−	1999 01 19	704	0.6−	0.5+	2000 04 07	704	1.6+	0.1+
1998 12 14	704	0.7+	0.5−	1999 01 19	704	0.8+	0.6+	2000 04 10	608	0.4−	0.1+
1998 12 17	704	0.1−	0.7+	1999 01 19	704	0.5−	0.7+	2000 04 10	608	0.4−	0.0
1998 12 17	704	0.6+	0.3+	1999 01 19	704	0.3+	0.6+	2000 04 10	608	0.4−	0.3−
1998 12 17	704	(2.5− 0.5−)		2000 03 15	699	0.8−	0.1+	2000 04 13	704	0.1−	0.1+
1998 12 17	704	0.5−	0.2−	2000 03 15	699	0.1−	0.2−	2000 04 13	704	0.5+	0.8+
1998 12 17	704	0.1−	0.6+	2000 03 15	699	0.4−	0.3+	2000 04 13	704	0.3−	0.1−
1999 01 16	704	0.5+	0.1−	2000 03 15	699	0.8−	0.3+	2000 04 13	704	0.1+	0.0
1999 01 16	704	0.1−	0.2−	2000 04 07	704	0.2+	0.9−	2000 04 13	704	0.2−	0.2−

1998 XY₄₈ = 1999 BV₁₆ = 2000 FJ₂₄Id. A. Doppler (d, *MPC* 34061), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	141.58246		(2000.0)	P	Q		
<i>n</i>	0.22524035	ω	303.16271	+0.76584666	−0.59796019		
<i>a</i>	2.6752965	Ω	94.68240	+0.64011981	+0.67405179		
<i>e</i>	0.1748447	<i>i</i>	13.72554	+0.06103705	+0.43370242		
<i>P</i>	4.38	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.1+	0.4+	1999 01 16	704	0.8+	0.3−	2000 03 29	704	0.6+	0.2−
1998 12 14	704	1.2+	1.0−	1999 01 16	704	0.9−	0.7+	2000 03 29	704	1.5+	1.0−
1998 12 14	704	0.8−	0.9+	1999 01 19	704	0.2−	0.4−	2000 03 29	704	0.5+	0.2−
1998 12 14	704	0.1−	0.7−	1999 01 19	704	0.8+	0.8+	2000 03 29	704	0.7+	0.4+
1998 12 17	704	0.2−	0.5−	1999 01 19	704	0.7−	0.1+	2000 04 03	704	0.8−	0.2+
1998 12 17	704	0.1−	0.4−	1999 01 19	704	0.1−	0.7+	2000 04 03	704	1.3−	0.5+
1998 12 17	704	0.4−	1.3+	2000 03 12	699	1.2−	0.3−	2000 04 03	704	1.1+	0.3+
1998 12 17	704	0.6+	0.0	2000 03 12	699	0.0	0.7+	2000 04 03	704	0.4−	0.4−
1999 01 16	704	0.2+	0.4−	2000 03 12	699	0.2+	0.3+				
1999 01 16	704	0.2−	1.3−	2000 03 12	699	1.0−	0.3−				

1998 XT₅₁ = 2000 EC₁₀₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	339.45321		(2000.0)	P	Q		
<i>n</i>	0.17127491	ω	173.89178	−0.87721339	+0.46590047		
<i>a</i>	3.2112458	Ω	34.64821	−0.44866259	−0.70960165		
<i>e</i>	0.1194524	<i>i</i>	11.76286	−0.17087582	−0.52858515		
<i>P</i>	5.75	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 11 06	704	1.1+	0.5+	1999 01 19	704	1.3+

2000 APR. 18

M.P.C. 40055

1998 12 14	704	0.2+	0.8−	2000 03 08	704	0.6+	1.0+	2000 04 02	699	0.2−	0.4−
1998 12 14	704	0.8−	1.6−	2000 03 08	704	1.0+	1.5+	2000 04 04	704	0.2+	0.1+
1998 12 14	704	1.1−	0.0	2000 03 11	699	1.0−	0.2+	2000 04 04	704	0.2−	0.5−
1998 12 14	704	1.0−	0.5−	2000 03 11	699	0.1+	0.2+	2000 04 04	704	0.4+	1.9−
1998 12 17	704	0.4−	0.5−	2000 03 11	699	1.1−	0.4+	2000 04 04	704	0.1−	0.3−
1998 12 17	704	0.8−	0.8−	2000 03 11	699	0.7+	0.4+	2000 04 04	704	0.1−	1.5−
1998 12 17	704	(0.5−	3.3−)	2000 03 11	699	0.1−	0.2+	2000 04 08	704	0.3+	0.3−
1998 12 17	704	0.5+	1.0−	2000 03 11	699	0.3−	0.0	2000 04 08	704	0.4+	0.2+
1998 12 24	699	0.9+	0.5+	2000 03 11	699	0.5−	0.2−	2000 04 08	704	0.4+	0.5−
1998 12 24	699	0.8+	1.1+	2000 03 11	699	0.2+	0.1−	2000 04 08	704	0.0	0.5+
1998 12 24	699	0.8−	1.1+	2000 03 29	704	0.0	0.3−	2000 04 08	704	0.2−	0.9+
1999 01 19	704	0.2+	0.1−	2000 03 29	704	0.5+	0.2+				
1999 01 19	704	0.9+	0.2+	2000 03 29	704	0.2−	0.1−				

1998 XQ₆₃ = 1979 WJ₂ = 1990 SQ₂₀ = 2000 FW₄₈

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	124.72159		(2000.0)		P		Q
<i>n</i>	0.26025634	ω	90.81650	+0.52497240	−0.84744513		
<i>a</i>	2.4296022	Ω	327.12726	+0.71149807	+0.48789690		
<i>e</i>	0.1074593	<i>i</i>	8.36885	+0.46709152	+0.20926862		
<i>P</i>	3.79	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 11 16	095	0.2−	1.1+	1998 12 14	704	0.1+	0.2+	2000 03 14	704	0.0	0.4+
1990 09 20	675	0.3−	0.3+	1998 12 17	704	0.1+	0.4+	2000 03 14	704	0.4−	0.2−
1990 09 20	675	0.2+	1.0−	1998 12 17	704	1.2−	0.1+	2000 03 30	704	0.6+	0.2−
1998 08 31	704	1.5+	0.5+	1998 12 17	704	0.5−	0.1−	2000 03 30	704	0.3−	0.2+
1998 08 31	704	0.8+	0.7+	1998 12 17	704	0.3−	0.1−	2000 03 30	704	0.7+	0.1+
1998 08 31	704	1.1+	0.4+	1998 12 17	704	1.0−	0.8−	2000 03 30	704	0.6+	1.8+
1998 08 31	704	0.3+	0.3+	1999 01 08	704	0.1−	0.4+	2000 04 06	704	0.5−	0.3+
1998 08 31	704	0.3−	0.1+	1999 01 08	704	0.5+	0.1+	2000 04 06	704	0.2−	0.1+
1998 12 14	704	0.0	0.8−	1999 01 08	704	(2.2+	0.2−)	2000 04 06	704	0.5−	0.7−
1998 12 14	704	0.5+	0.8−	1999 01 08	704	0.1+	0.3−	2000 04 13	608	0.2−	0.4−
1998 12 14	704	0.9+	0.1−	2000 03 14	704	0.6+	0.0	2000 04 13	608	0.2+	0.5−
1998 12 14	704	0.6−	0.1−	2000 03 14	704	0.0	0.4−	2000 04 13	608	0.3−	0.2−

1998 XK₆₅ = 2000 GD₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	126.56007		(2000.0)		P		Q
<i>n</i>	0.25672765	ω	40.06472	+0.65760589	−0.75334033		
<i>a</i>	2.4518145	Ω	8.82298	+0.68127856	+0.59142040		
<i>e</i>	0.2060054	<i>i</i>	2.14111	+0.32158049	+0.28757653		
<i>P</i>	3.84	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 20	699	0.7−	0.7+	1998 11 24	704	0.7+	0.5−	2000 04 05	704	0.4−	0.1−
1998 11 20	699	0.7−	0.6+	1998 11 24	704	0.2−	0.5−	2000 04 05	704	0.2−	0.2−
1998 11 20	699	0.9−	0.4+	1998 12 14	704	0.2+	0.3−	2000 04 05	704	0.1+	0.2+
1998 11 21	704	0.6−	0.4+	1998 12 14	704	0.4+	1.2+	2000 04 05	704	0.0	0.4+
1998 11 21	704	0.1−	0.0	1998 12 14	704	(0.5−	3.9+)	2000 04 06	704	0.1+	0.2−
1998 11 21	704	0.2+	0.1+	1998 12 14	704	(0.3+	2.3+)	2000 04 06	704	0.3+	0.4+
1998 11 21	704	(4.5+	2.1+)	1998 12 17	704	0.2+	1.3−	2000 04 06	704	0.4+	0.4−
1998 11 21	704	1.1+	1.1+	1998 12 17	704	0.7+	0.6−	2000 04 06	704	0.2−	0.7+
1998 11 24	704	0.3−	0.5+	1998 12 17	704	0.3−	0.3+	2000 04 06	704	0.4−	0.1+
1998 11 24	704	0.7+	0.0	1998 12 17	704	0.9−	0.8−				
1998 11 24	704	0.5+	1.0−	2000 04 05	704	0.5+	0.2−				

1998 XK₇₄ = 2000 EW₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.85526		(2000.0)		P		Q
<i>n</i>	0.21745023	ω	331.39154	+0.80122548	−0.55719990		
<i>a</i>	2.7388156	Ω	64.11244	+0.58473079	+0.65175187		
<i>e</i>	0.1531973	<i>i</i>	14.02958	+0.12699464	+0.51453647		
<i>P</i>	4.53	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.7−	1.0+	1999 01 19	704	0.6−	0.3+	2000 04 05	704	0.7−	0.0
1998 12 14	704	0.4−	0.8−	1999 01 19	704	0.5−	0.3+	2000 04 05	704	0.2+	0.6−
1998 12 14	704	0.6+	0.6−	1999 01 19	704	0.3+	0.5−	2000 04 08	704	0.3+	0.2−
1998 12 14	704	0.3−	0.5−	1999 01 19	704	0.3−	0.2−	2000 04 08	704	0.5+	0.5−
1998 12 17	704	0.0	1.7+	1999 01 19	704	0.1−	0.6+	2000 04 08	704	0.8+	0.3−
1998 12 17	704	0.2+	0.6−	2000 03 07	704	0.5+	0.3+	2000 04 08	704	0.2−	0.0
1998 12 17	704	1.4+	0.2−	2000 03 07	704	0.6+	0.4−	2000 04 08	704	0.3−	0.2−
1998 12 17	704	0.7+	0.7−	2000 03 07	704	0.2−	0.9+	2000 04 13	704	0.1−	0.2−
1998 12 17	704	0.3−	0.8+	2000 03 12	699	0.7−	0.5+	2000 04 13	704	0.3+	0.3+
1999 01 16	704	0.4−	0.7−	2000 03 12	699	1.1−	0.2+	2000 04 13	704	0.7−	0.4−
1999 01 16	704	0.5+	0.4−	2000 03 12	699	0.1−	0.2+	2000 04 13	704	1.1+	0.1−
1999 01 16	704	0.2−	0.2+	2000 03 12	699	0.2−	0.2−				
1999 01 16	704	0.1+	0.0	2000 04 05	704	0.1+	0.7+				

1998 XS₇₆ = 1999 BO₂₁ = 2000 EU₁₄₇Id. A. Doppler (d, *MPC* 36125), G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	337.94161		(2000.0)		P		Q
<i>n</i>	0.21975621	ω	325.63851	−0.86333840	+0.50200866		
<i>a</i>	2.7196224	Ω	244.57432	−0.44929019	−0.81098787		
<i>e</i>	0.0383085	<i>i</i>	3.25774	−0.22975013	−0.30047626		
<i>P</i>	4.49	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 23	704	1.3+	1.0−	1999 01 23	704	(3.3+	0.1+)	2000 04 02	699	0.3+	0.2+
1998 11 23	704	1.3+	0.4−	1999 01 23	704	1.1−	0.6−	2000 04 02	699	0.2−	0.1+
1998 11 23	704	1.7−	0.2+	1999 01 23	704	1.3−	0.2+	2000 04 06	699	0.2−	0.5+
1998 11 23	704	1.8−	1.0+	1999 01 23	704	0.3−	1.0−	2000 04 06	699	0.2−	0.4+
1998 11 23	704	1.5−	1.5+	1999 01 23	704	1.1+	0.8−	2000 04 06	699	0.1−	0.5+
1998 12 15	704	0.8+	0.3−	1999 01 23	704	0.5−	0.5+	2000 04 06	699	0.1−	0.4+
1998 12 15	704	1.6+	0.7−	1999 01 23	704	0.8−	1.0−	2000 04 07	704	0.1+	0.3+
1998 12 15	704	1.0+	0.4−	2000 03 04	703	0.3−	0.0	2000 04 07	704	0.2+	0.3+
1998 12 15	704	0.1+	0.9+	2000 03 04	703	0.2+	0.3+	2000 04 07	704	0.4+	0.5+
1998 12 16	704	0.9+	0.1−	2000 03 04	703	0.1−	0.2+	2000 04 07	704	0.5+	0.3+
1998 12 16	704	1.3+	0.1+	2000 03 04	703	0.3−	0.3−	2000 04 07	704	0.5+	0.0
1998 12 16	704	0.9+	1.2+	2000 03 09	704	0.5+	0.4−	2000 04 08	704	0.4+	0.2+
1998 12 16	704	0.3+	1.7+	2000 03 09	704	0.4−	0.2−	2000 04 08	704	0.4+	0.3+
1998 12 16	704	2.0+	1.7+	2000 03 09	704	0.6−	0.4+	2000 04 08	704	0.2+	0.6+
1998 12 22	704	0.4−	0.4+	2000 03 27	699	0.4−	0.1−	2000 04 08	704	0.3+	0.7+
1998 12 22	704	0.2−	0.6−	2000 03 27	699	0.2−	0.2−	2000 04 10	704	0.2+	0.3+
1998 12 22	704	0.9−	0.2+	2000 03 27	699	0.6−	0.3+	2000 04 10	704	0.6+	0.0
1998 12 22	704	1.2−	0.1+	2000 03 27	699	0.4−	0.2+	2000 04 10	704	0.1+	0.1+
1998 12 22	704	0.7−	1.0+	2000 03 30	704	(2.7+	0.6−)	2000 04 10	704	0.6+	0.3+
1999 01 18	704	(2.0+	3.0−)	2000 03 30	704	1.1−	0.9−	2000 04 10	704	0.6+	0.1+
1999 01 18	704	0.0	0.9−	2000 03 30	704	0.7−	0.7−	2000 04 10	608	0.5+	1.6−
1999 01 18	704	0.8+	1.9−	2000 03 30	704	0.9−	0.7−	2000 04 10	608	(0.6+	2.2−)
1999 01 18	704	(0.8+	2.6−)	2000 04 02	699	0.4−	0.1+	2000 04 10	608	0.6+	1.7−
1999 01 23	704	1.3−	1.1−	2000 04 02	699	0.1+	0.0				

1998 XQ₇₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	180.42580	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28958598	ω	210.79980	+0.99835157	-0.03055519	
<i>a</i>	2.2626516	Ω	150.83163	+0.04438129	+0.94774300	
<i>e</i>	0.1776523	<i>i</i>	5.72115	-0.03639295	+0.31756823	
<i>P</i>	3.40	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1996 01 29	691	0.4-	0.2-	1998 12 22	704	0.7+	1.0-	2000 03 29	704	0.4+	0.9+
1996 01 29	691	0.4+	0.0	1998 12 22	704	0.2-	0.0	2000 04 02	699	0.8-	0.9+
1996 01 29	691	0.1-	0.2-	1998 12 22	704	0.3+	0.6-	2000 04 02	699	0.8-	0.1+
1998 08 31	704	0.9-	1.1+	1998 12 22	704	0.4-	0.3+	2000 04 02	699	0.5-	0.4+
1998 08 31	704	1.1-	1.5+	1998 12 22	704	0.0	0.0	2000 04 02	699	0.6-	0.1+
1998 08 31	704	0.4-	1.1+	1999 01 10	699	0.6-	0.2-	2000 04 04	704	0.0	0.5-
1998 08 31	704	0.1+	0.9+	1999 01 10	699	0.2-	0.2-	2000 04 04	704	0.4+	0.2+
1998 08 31	704	1.5+	0.6+	1999 01 10	699	0.6-	0.2+	2000 04 04	704	0.7-	0.2+
1998 11 13	704	0.4-	0.7-	1999 01 23	699	0.2+	0.9+	2000 04 04	704	1.0+	0.6+
1998 11 13	704	0.4-	0.1-	1999 01 23	699	0.0	0.9-	2000 04 04	704	0.3+	0.3+
1998 11 13	704	0.1+	0.2+	1999 01 23	699	0.2-	0.5+	2000 04 08	704	0.3-	0.6+
1998 11 13	704	0.6-	0.9-	2000 03 08	704	1.2-	0.4-	2000 04 08	704	0.4+	0.1+
1998 11 13	704	1.9-	0.6-	2000 03 08	704	0.9+	0.1-	2000 04 08	704	0.3-	0.5-
1998 12 15	704	0.1+	0.8+	2000 03 08	704	0.9+	0.2-	2000 04 08	704	0.0	0.2-
1998 12 15	704	0.4+	0.6+	2000 03 08	704	0.7+	0.5-	2000 04 08	704	0.3+	0.3-
1998 12 15	704	1.4+	0.0	2000 03 08	704	0.1-	0.1-	2000 04 10	704	0.1-	0.1-
1998 12 15	704	0.5-	1.0+	2000 03 29	704	0.4+	0.6+	2000 04 10	704	0.0	0.4-
1998 12 16	699	1.8+	0.2-	2000 03 29	704	0.3-	0.7-	2000 04 10	704	1.1+	1.0+
1998 12 16	699	0.6+	0.2-	2000 03 29	704	0.1-	0.6+	2000 04 10	704	0.3+	0.3-
1998 12 16	699	0.6+	0.0	2000 03 29	704	0.2-	0.2+	2000 04 10	704	0.2-	0.0

1998 XU₇₇ = 2000 EC₂₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	78.08600	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.18592725	ω	200.22733	+0.19310333	-0.97323444	
<i>a</i>	3.0402363	Ω	238.82284	+0.91905681	+0.22388179	
<i>e</i>	0.0326189	<i>i</i>	8.37417	+0.34357776	-0.05188134	
<i>P</i>	5.30	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 12 01	327	0.2-	0.3+	2000 02 08	704	0.4+	0.4-	2000 03 13	704	0.1-	0.0
1998 12 01	327	0.2-	0.3+	2000 02 08	704	0.3+	0.7-	2000 03 13	704	0.0	0.1-
1998 12 01	327	0.4-	0.1-	2000 02 08	704	0.1+	0.7-	2000 03 13	704	0.6+	1.2+
1998 12 15	704	0.2-	0.4-	2000 02 08	704	0.0	0.5-	2000 03 14	703	0.1+	0.3+
1998 12 15	704	1.3+	0.4+	2000 03 03	703	0.5-	0.3+	2000 03 14	703	0.2-	0.4+
1998 12 15	704	0.9-	0.3+	2000 03 03	703	0.2-	0.0	2000 03 14	703	0.1+	0.2-
1998 12 15	704	0.0	0.1+	2000 03 03	703	0.1+	0.3-	2000 03 14	703	0.3+	0.4+
1998 12 15	704	0.0	0.9-	2000 03 03	703	0.4-	0.1+	2000 03 30	703	0.6-	1.1+
1998 12 22	704	1.7-	1.1-	2000 03 03	608	0.3-	0.5-	2000 03 30	703	0.1-	0.5+
1998 12 22	704	1.7+	0.9-	2000 03 03	608	0.2-	0.1-	2000 03 30	703	0.1+	0.3-
1998 12 22	704	0.1+	0.3-	2000 03 03	608	0.4+	0.0	2000 03 30	703	0.4+	0.6+
1998 12 22	704	0.7+	0.6-	2000 03 04	703	0.1+	0.4+	2000 04 04	699	0.3-	0.5-
1999 01 07	704	0.5+	1.1+	2000 03 04	703	0.4-	0.1+	2000 04 04	699	0.2+	1.3-
1999 01 07	704	0.0	0.3+	2000 03 04	703	0.1-	0.1-	2000 04 04	699	0.5-	0.1+
1999 01 07	704	0.7-	1.7+	2000 03 04	703	0.1+	1.1-	2000 04 04	699	0.0	0.0
1999 01 07	704	(5.7-	1.0+)	2000 03 08	704	0.5-	0.2-	2000 04 04	704	0.7+	0.1+
2000 01 11	699	0.9+	0.5-	2000 03 08	704	0.2-	1.1+	2000 04 04	704	0.7+	0.4-
2000 01 11	699	0.1+	0.2+	2000 03 08	704	1.0-	0.3-	2000 04 04	704	0.4+	0.0
2000 01 11	699	0.1-	0.4+	2000 03 13	704	0.2-	0.2-	2000 04 04	704	0.3+	0.0
2000 02 08	704	0.3-	0.5+	2000 03 13	704	0.2+	0.2-	2000 04 04	704	0.1-	0.5+

1998 XB₇₈ = 2000 FK₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	66.37447	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21343528	ω	347.32682	-0.26114991	-0.94400979	
<i>a</i>	2.7730556	Ω	117.50935	+0.90429806	-0.31231956	
<i>e</i>	0.0890263	<i>i</i>	13.13874	+0.33770658	+0.10631091	
<i>P</i>	4.62	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 11 13	704	0.1+	0.2-	1999 01 07	704	0.1+	0.9-	2000 03 11	703	0.1+	0.0
1998 11 13	704	(1.1-	2.4+)	1999 01 07	704	0.7-	0.0	2000 03 29	704	0.1-	0.4-
1998 11 13	704	0.6-	0.6-	1999 01 10	699	0.6+	0.0	2000 03 29	704	0.1+	0.2-
1998 11 13	704	1.3+	0.8-	1999 01 10	699	1.2+	0.1+	2000 03 29	704	0.1-	0.1-
1998 11 13	704	1.3-	0.1-	1999 01 10	699	0.1+	0.2-	2000 03 29	704	0.1+	0.3-
1998 12 15	704	0.2-	0.4-	1999 01 14	699	0.6-	0.4-	2000 03 29	704	0.1-	0.1+
1998 12 15	704	0.7-	0.6+	1999 01 14	699	0.4-	0.7-	2000 04 03	704	0.0	0.4+
1998 12 15	704	0.3+	0.6+	1999 01 14	699	0.5+	0.6+	2000 04 03	704	0.3-	0.0
1998 12 15	704	0.7-	1.1+	2000 01 08	704	0.7+	0.7-	2000 04 03	704	0.1+	0.4+
1998 12 15	704	0.6-	1.0+	2000 01 08	704	0.2-	1.2-	2000 04 03	704	0.4+	0.7+
1998 12 17	699	0.1+	0.1+	2000 01 08	704	0.9+	0.6+	2000 04 03	704	(2.3+	0.5+)
1998 12 17	699	0.2+	0.7+	2000 01 08	704	0.0	0.6-	2000 04 08	704	0.0	0.0
1998 12 17	699	0.2+	0.1+	2000 01 08	704	0.2-	0.8-	2000 04 08	704	0.2-	0.2-
1998 12 22	704	0.4-	0.7+	2000 02 04	704	0.1-	0.6-	2000 04 08	704	0.1+	0.3-
1998 12 22	704	0.3+	0.4+	2000 02 04	704	0.3+	0.3+	2000 04 08	704	0.0	0.1-
1998 12 22	704	0.3-	0.2+	2000 02 04	704	0.8-	0.4+	2000 04 08	704	0.0	0.6-
1998 12 22	704	0.3+	0.1-	2000 02 04	704	0.2-	0.1-	2000 04 14	704	0.0	0.9+
1998 12 22	704	0.7-	0.1-	2000 02 04	704	0.2-	0.5+	2000 04 14	704	0.3+	0.4+
1999 01 07	704	(2.0-	2.3-)	2000 03 11	703	0.2+	0.4+	2000 04 14	704	0.2-	0.1-
1999 01 07	704	1.4+	0.1-	2000 03 11	703	0.5-	0.1-	2000 04 14	704	0.9-	0.3+
1999 01 07	704	0.8+	1.4-	2000 03 11	703	0.3+	0.2+	2000 04 14	704	0.5+	0.4+

1998 XM₇₉ = 2000 EW₃₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.52635	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.20469185	ω	298.00749	-0.52805286	-0.84906788	
<i>a</i>	2.8514713	Ω	183.97278	+0.83660315	-0.51696749	
<i>e</i>	0.0696267	<i>i</i>	13.02756	+0.14579212	-0.10875820	
<i>P</i>	4.82	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 12 15	704	1.5-	0.1-	2000 03 08	704	0.2+	0.1-	2000 04 05	704	0.2-	0.1+
1998 12 15	704	0.9+	0.2-	2000 03 09	691	1.5-	1.1-	2000 04 05	704	0.2-	0.6-
1998 12 15	704	1.0-	0.4+	2000 03 09	691	0.4-	0.9-	2000 04 05	704	0.1+	0.6-
1998 12 15	704	1.4+	2.0-	2000 03 09	691	0.6-	0.7-	2000 04 05	704	0.2-	0.9-
1998 12 15	704	0.8-	0.8-	2000 03 10	704	0.1+	0.3+	2000 04 05	704	0.2+	0.8-
1998 12 17	699	0.8-	0.5+	2000 03 10	704	0.0	0.4+	2000 04 06	704	0.3+	0.0
1998 12 17	699	0.4-	0.4+	2000 03 10	704	0.1-	0.3+	2000 04 06	704	0.4-	0.1-
1998 12 17	699	0.2+	0.8+	2000 03 10	704	0.3+	0.2+	2000 04 06	704	0.1+	0.4+
1998 12 22	704	0.8+	1.4+	2000 03 10	704	0.1-	0.2+	2000 04 06	704	0.0	0.6-
1998 12 22	704	0.2-	0.5-	2000 03 11	704	0.2+	0.1+	2000 04 06	704	0.0	0.1-
1998 12 22	704	1.3+	0.1+	2000 03 11	704	0.2+	0.1-	2000 04 06	704	0.1-	1.2+
2000 01 10	704	0.2-	0.3-	2000 03 11	704	0.2+	0.0	2000 04 06	704	0.1+	0.8-
2000 01 10	704	0.2+	0.5-	2000 03 11	704	0.2-	0.2-	2000 04 06	704	0.0	0.2-
2000 01 10	704	0.0	0.8-	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.9-	1.0+
2000 01 10	704	0.0	0.7+	2000 03 26	699	0.1-	0.3-	2000 04 07	699	0.3+	0.6+
2000 02 08	704	0.8-	0.0	2000 03 26	699	0.0	0.6-	2000 04 07	699	0.1-	0.3+
2000 02 08	704	0.7+	0.6+	2000 03 26	699	0.3-	0.6-	2000 04 07	699	0.1+	0.0
2000 02 08	704	0.1+	0.5+	2000 03 26	699	0.1-	0.2-	2000 04 07	699	0.1-	0.3+
2000 02 08	704	0.2+	0.4+	2000 04 04	704	0.1-	0.3-	2000 04 10	704	0.0	0.7+
2000 03 08	704	0.2+	0.5+	2000 04 04	704	0.3+	0.1+	2000 04 10	704	0.0	0.2+
2000 03 08	704	0.2+	0.0	2000 04 04	704	0.1-	0.5+	2000 04 10	704	0.4+	0.5-
2000 03 08	704	0.8+	0.2+	2000 04 04	704	0.3+	0.7+	2000 04 10	704	0.2+	0.3-
2000 03 08	704	0.3+	0.1+	2000 04 04	704	0.5+	0.7+	2000 04 10	704	0.1-	0.4+

2000 APR. 18

M.P.C. 40057

1998 XE₈₃ = 2000 EB₁₇₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.32048		(2000.0)		P		Q
<i>n</i>	0.18674016	ω	258.34786		-0.00012041		-0.99914452
<i>a</i>	3.0314068	Ω	191.89424		+0.97776064		+0.00855544
<i>e</i>	0.1359097	<i>i</i>	11.57485		+0.20972391		-0.04046023
<i>P</i>	5.28	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 05 06	691	0.5+	0.6-	2000 03 09	704	0.5-	0.5+	2000 04 06	704	0.2-	0.1-
1995 05 06	691	0.8-	0.2+	2000 03 10	704	0.1+	0.4+	2000 04 06	704	0.3+	0.3-
1995 05 06	691	0.0	0.8-	2000 03 10	704	0.1-	0.6+	2000 04 07	704	0.6-	0.1+
1998 12 15	704	(2.3+	0.3+)	2000 03 10	704	0.1+	0.9+	2000 04 07	704	0.1-	0.5+
1998 12 15	704	0.1-	0.4-	2000 03 10	704	0.1+	1.7+	2000 04 07	704	0.3+	0.1+
1998 12 15	704	1.7+	1.3+	2000 03 26	699	0.6-	0.8+	2000 04 07	699	0.2-	0.2-
1998 12 15	704	0.5+	0.3-	2000 03 26	699	0.2-	1.3+	2000 04 07	704	0.0	0.1-
1998 12 22	704	0.9+	0.7-	2000 03 26	699	0.7-	0.5+	2000 04 07	699	0.1+	0.0
1998 12 22	704	0.4+	0.5+	2000 03 26	699	0.9-	0.1+	2000 04 07	704	0.1-	0.1-
1998 12 22	704	0.9+	0.4-	2000 04 04	704	1.3+	0.5-	2000 04 07	699	0.3+	0.2+
1998 12 22	704	0.1+	1.0-	2000 04 04	704	0.2+	0.2+	2000 04 07	699	0.1+	0.2-
1998 12 22	704	0.5-	0.4+	2000 04 04	704	0.1+	1.1-	2000 04 08	704	0.8-	0.5+
1999 01 14	699	1.5-	0.5-	2000 04 04	704	0.3+	0.3-	2000 04 08	704	0.2-	0.9-
1999 01 14	699	1.0-	0.1+	2000 04 04	704	1.5+	0.7-	2000 04 08	704	0.8+	0.1-
1999 01 14	699	1.6-	0.5+	2000 04 05	704	0.1+	0.2+	2000 04 08	704	0.8+	0.5+
2000 03 03	703	0.1-	0.2-	2000 04 05	704	0.1+	0.3-	2000 04 08	704	0.2-	0.0
2000 03 03	703	0.2+	0.7-	2000 04 05	704	0.4+	0.4-	2000 04 08	704	0.7+	0.2+
2000 03 03	703	0.4-	0.3+	2000 04 05	704	0.2-	0.6-	2000 04 08	704	0.5+	0.2-
2000 03 03	703	0.9-	0.9-	2000 04 05	704	0.2-	0.6-	2000 04 08	704	0.5-	0.1-
2000 03 09	704	0.7-	1.2-	2000 04 06	704	0.3+	0.0	2000 04 08	704	0.0	0.1+
2000 03 09	704	(3.4-	0.5+)	2000 04 06	704	0.4+	0.2-	2000 04 08	704	0.1+	1.1+
2000 03 09	704	0.5-	0.3+	2000 04 06	704	0.0	0.2-				

1998 XS₉₃ = 1965 UZ₁ = 2000 EG₁₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	192.21018		(2000.0)		P		Q
<i>n</i>	0.24189142	ω	125.72408		+0.97856615		+0.08824501
<i>a</i>	2.5510702	Ω	229.98349		-0.13277755		+0.96101486
<i>e</i>	0.1326577	<i>i</i>	14.06087		+0.15741158		+0.26203675
<i>P</i>	4.07	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1965 10 20	330	0.0	1.2+	1999 01 18	704	1.3+	0.8+	2000 03 14	704	0.5-	0.3+
1998 12 15	704	0.7+	0.6-	1999 01 18	704	0.5+	0.1-	2000 03 14	704	0.2-	0.6-
1998 12 15	704	0.3-	0.9-	1999 01 18	704	1.3-	0.6+	2000 03 14	704	0.1-	0.1+
1998 12 15	704	1.0-	0.6-	1999 01 20	704	0.3+	0.8+	2000 03 14	704	0.3+	0.6+
1998 12 15	704	0.4-	0.4-	1999 01 20	704	0.7+	0.6-	2000 04 07	704	0.3+	0.2+
1998 12 15	704	0.8-	0.4-	1999 01 20	704	1.0+	1.0+	2000 04 07	704	0.2+	0.6+
1998 12 22	704	0.5-	0.6+	1999 01 20	704	(2.8+	1.1+)	2000 04 07	704	0.1+	0.6+
1998 12 22	704	0.1+	0.6-	2000 03 12	699	0.1-	0.9-	2000 04 07	704	0.2+	0.9+
1998 12 22	704	(2.3-	0.7-)	2000 03 12	699	0.3-	0.3-	2000 04 07	704	0.3+	1.0+
1998 12 22	704	0.7-	0.2-	2000 03 12	699	0.2+	1.7-				
1999 01 18	704	0.4+	0.4+	2000 03 12	699	0.1-	0.4-				

1998 XU₉₃ = 1969 VK₂ = 2000 EH₁₄₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	172.13024		(2000.0)		P		Q
<i>n</i>	0.24046088	ω	170.50612		+0.99110291		-0.11850342
<i>a</i>	2.5611780	Ω	196.66822		+0.10399428		+0.97361724
<i>e</i>	0.1922974	<i>i</i>	12.19644		+0.08306749		+0.19500360
<i>P</i>	4.10	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1969 11 15	095	0.1+	0.3-	1998 12 22	704	0.2+	0.9+	2000 03 09	704	0.2-	0.9-
1996 03 16	566	0.1-	0.1-	1999 01 18	704	1.2+	0.5+	2000 03 09	704	0.3-	0.9-
1996 03 16	566	0.3+	0.1-	1999 01 18	704	0.2+	1.4+	2000 04 05	688	0.0	1.1+
1996 03 16	566	0.2-	0.3-	1999 01 18	704	(2.1+	0.5+)	2000 04 05	688	0.0	0.1-
1996 04 22	566	0.3-	0.9-	1999 01 18	704	0.2+	0.9-	2000 04 07	704	0.1+	0.3-
1996 04 22	566	0.4-	0.8-	1999 01 20	704	0.5+	0.4-	2000 04 07	704	0.2+	0.1+
1996 04 22	566	0.4-	0.8-	1999 01 20	704	0.7-	1.2-	2000 04 07	704	0.4+	0.3+
1998 12 15	704	0.6-	0.7+	1999 01 20	704	0.7+	1.1-	2000 04 07	704	0.0	0.6+
1998 12 15	704	0.1-	0.2+	1999 01 20	704	0.1+	0.6-	2000 04 07	704	0.6-	0.2+
1998 12 15	704	1.1-	0.3+	2000 03 03	703	0.0	0.1+	2000 04 08	704	0.1+	0.2+
1998 12 15	704	0.9-	0.5-	2000 03 03	703	0.5+	1.0+	2000 04 08	704	0.6+	0.3+
1998 12 15	704	0.4-	0.9-	2000 03 03	703	1.6-	0.1+	2000 04 08	704	0.0	0.8+
1998 12 22	704	0.6-	0.2+	2000 03 03	703	0.4-	0.1-	2000 04 08	704	0.3+	0.6+
1998 12 22	704	0.3+	0.4+	2000 03 09	704	0.6+	0.4-	2000 04 08	704	1.1+	0.2+
1998 12 22	704	0.3+	0.4+	2000 03 09	704	0.1+	0.3+				
1998 12 22	704	0.7+	0.6+	2000 03 09	704	0.4+	0.1-				

1998 XG₉₅ = 2000 GR₁₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.58255		(2000.0)		P		Q
<i>n</i>	0.23851711	ω	325.42046		+0.03513859		-0.98650566
<i>a</i>	2.5750738	Ω	122.07035		+0.95423764		-0.01443004
<i>e</i>	0.1393461	<i>i</i>	10.87749		+0.29697778		+0.16309000
<i>P</i>	4.13	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 01	566	0.0	1.0+	1999 01 18	704	0.1-	0.3+	2000 03 09	704	1.8+	0.6+
1997 09 01	566	0.0	0.6+	1999 01 18	704	0.6-	0.6+	2000 04 07	704	0.1+	0.6+
1997 09 01	566	0.4-	0.4+	1999 01 20	704	0.1-	0.4-	2000 04 07	704	0.2-	0.7+
1998 12 15	704	1.2+	0.4+	1999 01 20	704	0.5-	0.6+	2000 04 07	704	0.2-	0.2+
1998 12 15	704	0.8+	0.0	1999 01 20	704	0.1+	1.0+	2000 04 07	704	0.5+	0.3+
1998 12 15	704	0.3-	0.5+	1999 01 20	704	0.8-	0.3+	2000 04 12	704	0.6+	0.5+
1998 12 15	704	0.6-	0.4-	1999 01 20	704	0.0	0.9+	2000 04 12	704	0.8-	0.2+
1998 12 15	704	0.3-	0.5-	1999 02 04	704	0.9+	1.8-	2000 04 12	704	0.0	0.4-
1998 12 22	704	0.3-	0.6+	1999 02 04	704	0.9+	2.0-	2000 04 12	704	0.7-	0.7+
1998 12 22	704	0.2+	0.2+	1999 02 04	704	1.1+	0.2-	2000 04 13	704	0.5-	1.4-
1998 12 22	704	(5.2-	0.0)	1999 02 04	704	(0.8+	2.7-)	2000 04 13	704	0.0	1.0-
1998 12 22	704	0.9-	0.3+	1999 02 04	704	(0.6+	2.6-)	2000 04 13	704	0.4+	0.3-
1999 01 18	704	0.9+	0.8+	2000 03 09	704	0.4+	0.0	2000 04 13	704	0.6+	0.6+
1999 01 18	704	0.5-	0.0	2000 03 09	704	0.8-	0.2-	2000 04 13	704	0.2-	0.1+
1999 01 18	704	0.6-	0.5+	2000 03 09	704	0.1-	1.0+				

1998 XJ₉₅ = 2000 FD₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	168.96582		(2000.0)		P		Q
<i>n</i>	0.22921882	ω	198.91857		+0.93423751		-0.35657249
<i>a</i>	2.6442501	Ω	182.01823		+0.34850680		+0.91717226
<i>e</i>	0.0939895	<i>i</i>	12.30500		+0.07578443		+0.17790757
<i>P</i>	4.30	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 16	327	0.1+	0.0	1999 01 20	704	0.9-	1.2-	2000 04 02	699	0.4+	0.4+
1997 10 16	327	0.2-	0.2+	1999 01 20	704	0.2+	0.1-	2000 04 04	704	0.3-	0.2-
1997 10 16	327	0.3+	1.2-	1999 01 20	704	0.2+	0.0	2000 04 04	704	0.2-	0.1-
1998 12 15	704	0.5-	0.5-	1999 01 20	704	0.7+	1.2+	2000 04 04	704	0.1-	0.1+
1998 12 15	704	0.3+	0.1-	2000 03 14	703	0.1-	0.1-	2000 04 04	704	0.0	0.3-
1998 12 15	704	0.7+	0.5+	2000 03 14	703	0.2-	0.7-	2000 04 04	704	0.3-	0.2+
1998 12 15	704	0.5+	0.4-	2000 03 14	703	0.8-	0.6-	2000 04 08	704	0.1-	1.2+
1998 12 15	704	0.8-	0.1-	2000 03 14	703	0.4-	1.3-	2000 04 08	704	0.3+	0.0
1998 12 22	704	0.1+	0.4-	2000 03 29	704	0.0	0.2+	2000 04 08	704	0.2-	0.4+
1998 12 22	704	1.1-	1.6-	2000 03 29	704	0.2+	0.5-	2000 04 08	704	0.3+	0.5-
1998 12 22	704	(0.9-	2.2-)	2000 03 29	704	0.3+	0.2-	2000 04 08	704	0.3-	0.3-
1998 12 22	704	1.3-	0.7-	2000 03 29	704	0.4+	0.1+	2000 04 08	704	0.4-	0.0
1999 01 18	704	1.6+	0.4-	2000 03 29	704	0.4+	0.6+	2000 04 08	704	0.4-	0.2+
1999 01 18	704	0.6+	1.5+	2000 04 02	699	0.4+	0.3+	2000 04 08	704	0.2-	0.7-

1999 01 18 704 0.4+ 0.2+ 2000 04 02 699 0.5+ 0.1+
 1999 01 18 704 0.6− 1.9+ 2000 04 02 699 0.6+ 0.6+

1998 XP₉₅ = 2000 GC₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	88.12159		(2000.0)		P		Q		Williams
<i>n</i>	0.20116041	ω	317.17726	−0.11530844	−0.98417933				
<i>a</i>	2.8847468	Ω	138.89907	+0.95771040	−0.14608875				
<i>e</i>	0.1306537	<i>i</i>	11.80753	+0.26361856	+0.10024532				
<i>P</i>	4.90	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 12 15	704	0.4−	1.3+	1999 01 20	704	0.7+	0.4−	2000 03 08	704	0.5−	1.4−
1998 12 15	704	0.3−	0.6−	1999 01 20	704	0.1+	0.3−	2000 03 08	704	0.5−	0.1+
1998 12 15	704	0.4−	0.2+	1999 01 20	704	0.8+	0.8−	2000 04 04	704	0.2−	0.2+
1998 12 15	704	0.3−	0.7+	1999 01 20	704	0.5+	0.6−	2000 04 04	704	0.0	0.5+
1998 12 22	704	0.2+	0.2+	1999 04 07	704	0.1+	0.0	2000 04 04	704	0.4−	0.4−
1998 12 22	704	1.2+	0.1−	1999 04 07	704	0.5−	0.4+	2000 04 04	704	0.0	0.2−
1998 12 22	704	0.3+	1.1−	1999 04 07	704	0.5+	1.0+	2000 04 04	704	0.1−	0.6−
1998 12 22	704	1.1−	0.5+	1999 04 07	704	0.1−	0.8−	2000 04 08	704	0.4+	0.2+
1998 12 22	704	0.7+	0.4+	1999 04 07	704	(3.4−	0.4+)	2000 04 08	704	0.1+	0.1+
1999 01 18	704	0.3−	0.3−	2000 02 08	704	0.2+	0.6+	2000 04 08	704	0.5−	0.1+
1999 01 18	704	1.1−	0.3−	2000 02 08	704	0.0	0.4−	2000 04 09	699	0.0	0.3+
1999 01 18	704	0.0	0.5+	2000 02 08	704	0.4+	0.4−	2000 04 09	699	0.2−	0.3+
1999 01 18	704	0.3−	0.6+	2000 03 08	704	1.0+	0.1−	2000 04 09	699	0.0	0.4+
1999 01 20	704	0.3−	0.0	2000 03 08	704	1.1+	0.5+	2000 04 09	699	0.3−	0.3+

1998 XV₉₅

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.62061		(2000.0)		P		Q		Williams
<i>n</i>	0.18851626	ω	244.37861	+0.16835346	−0.98527056				
<i>a</i>	3.0123367	Ω	196.01493	+0.93888653	+0.16954459				
<i>e</i>	0.0815579	<i>i</i>	6.23931	+0.30024857	+0.02228345				
<i>P</i>	5.23	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1997 10 04	691	0.3−	0.3+	2000 03 09	704	0.4−	0.1−	2000 04 06	699	0.1+	0.0
1997 10 04	691	0.2−	0.7+	2000 03 09	704	0.3−	0.2−	2000 04 06	704	0.6+	0.3+
1997 10 04	691	0.1−	0.6+	2000 03 09	704	0.7−	0.1−	2000 04 06	704	0.6+	0.3+
1998 12 15	704	1.4+	1.1−	2000 03 09	704	0.0	0.2−	2000 04 06	699	0.1−	0.3+
1998 12 15	704	0.9−	0.4−	2000 03 09	704	0.0	0.2+	2000 04 06	704	0.7+	0.4+
1998 12 15	704	0.3−	0.1+	2000 03 10	704	0.3+	0.3−	2000 04 06	699	0.0	0.2−
1998 12 22	704	0.2+	0.5+	2000 03 10	704	0.0	0.1−	2000 04 06	704	0.6+	0.7+
1998 12 22	704	1.1−	1.2−	2000 03 10	704	0.6+	0.4+	2000 04 07	704	0.2−	0.5+
1998 12 22	704	0.9−	0.8−	2000 03 10	704	(3.7+	1.5+)	2000 04 07	704	0.3+	0.7+
1998 12 22	704	0.5+	1.1+	2000 03 27	699	0.1−	0.0	2000 04 07	704	0.2+	1.0+
1999 01 18	704	0.4−	0.5−	2000 03 27	699	1.7−	0.8+	2000 04 07	704	0.1+	0.2+
1999 01 18	704	0.5+	1.0+	2000 03 27	699	0.8+	0.4−	2000 04 07	704	0.1−	0.3−
1999 01 18	704	(2.5+	0.4−)	2000 03 27	699	0.2+	0.3−	2000 04 08	704	0.1+	0.5+
1999 01 18	704	0.2+	0.9+	2000 04 02	699	0.5+	0.0	2000 04 08	704	0.6+	0.1+
1999 01 20	704	0.6+	0.2+	2000 04 02	699	0.7+	0.0	2000 04 08	704	1.4+	0.5+
1999 01 20	704	0.0	0.3−	2000 04 02	699	0.1+	0.6+	2000 04 08	704	0.1+	0.3+
1999 01 20	704	0.5+	0.1−	2000 04 02	699	0.1+	0.1+	2000 04 08	704	0.6−	0.9+
1999 01 20	704	0.1−	0.5+	2000 04 05	691	0.4−	0.2−	2000 04 10	704	0.0	0.1+
1999 01 20	704	0.2−	0.6+	2000 04 05	691	0.2−	0.3−	2000 04 10	704	0.1−	0.3−
2000 03 04	703	1.4−	0.3+	2000 04 05	691	0.3−	0.2−	2000 04 10	704	0.2+	0.5−
2000 03 04	703	0.6−	0.1−	2000 04 05	704	0.2−	0.1−	2000 04 10	704	0.4−	0.2−
2000 03 04	703	0.9−	1.6−	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.1+	0.8−
2000 03 04	703	0.3+	0.1+	2000 04 05	704	0.3+	0.3+	2000 04 11	691	0.7−	0.5−
2000 03 04	703	0.7−	1.0−	2000 04 05	704	1.0+	0.0	2000 04 11	691	0.7−	0.6−
2000 03 04	703	0.8+	0.6−	2000 04 05	704	0.1−	0.9+	2000 04 11	691	0.8−	0.5−
2000 03 04	703	0.1+	0.2+	2000 04 06	699	0.1−	0.1+				
2000 03 04	703	0.4+	0.2−	2000 04 06	704	0.0	0.2+				

1998 YB = 2000 GM₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	71.44698		(2000.0)		P		Q		Williams
<i>n</i>	0.16872004	ω	28.27181	−0.36283625	−0.93184786				
<i>a</i>	3.2435823	Ω	83.00281	+0.85437442	−0.33398205				
<i>e</i>	0.1196475	<i>i</i>	0.17725	+0.37201371	−0.14182936				
<i>P</i>	5.84	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1997 10 29	566	1.4−	0.3+	1998 12 22	120	0.5+	0.3+	2000 04 05	704	0.2+	0.1−
1997 10 29	566	0.9−	0.3+	1998 12 22	120	0.3+	0.1−	2000 04 05	704	0.1+	0.5−
1997 10 29	566	1.6−	0.3+	1998 12 23	120	0.0	0.2+	2000 04 05	704	0.0	0.2+
1997 10 30	704	0.5+	0.4−	1998 12 24	120	0.5−	0.1−	2000 04 06	704	0.1+	0.0
1997 10 30	704	0.4+	0.6+	1999 01 06	699	0.1−	0.1+	2000 04 06	704	0.2+	0.4+
1997 10 30	704	1.2+	0.4+	1999 01 06	699	0.2−	0.7−	2000 04 06	704	0.0	0.5+
1997 10 30	704	0.8+	1.1+	1999 01 06	699	0.2+	0.3−	2000 04 06	704	0.3+	0.1+
1998 12 11	691	0.6−	0.5−	1999 01 19	704	1.0−	0.9+	2000 04 06	704	0.3+	0.5+
1998 12 11	691	0.6−	0.4−	1999 01 19	704	0.3+	0.5−	2000 04 07	704	0.5+	0.6+
1998 12 11	691	0.7−	0.6−	1999 01 19	704	0.4+	0.8−	2000 04 07	704	0.4−	0.0
1998 12 16	120	1.1−	0.4+	1999 01 19	704	0.0	0.8+	2000 04 07	704	0.7+	0.4−
1998 12 16	120	1.0+	0.4+	1999 01 19	704	(2.5−	1.1+)	2000 04 08	704	0.2−	0.2−
1998 12 16	120	0.7+	0.8+	2000 03 14	703	0.0	0.5+	2000 04 08	704	0.3+	0.6+
1998 12 17	691	0.3−	0.4−	2000 03 14	703	0.1+	0.4+	2000 04 08	704	0.3−	0.8+
1998 12 17	691	0.1−	0.2−	2000 03 14	703	0.2−	1.2−	2000 04 08	704	0.4−	0.6+
1998 12 17	691	0.3−	0.4−	2000 03 14	703	0.4+	1.1+	2000 04 08	704	1.2−	1.3−
1998 12 17	120	1.1+	0.2+	2000 04 05	704	0.0	0.2−				
1998 12 18	120	0.7+	0.4+	2000 04 05	704	0.3+	0.3+				

1998 YV = 2000 GF₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.48208		(2000.0)		P		Q		Williams
<i>n</i>	0.18121950	ω	267.46755	−0.84694495	−0.53158717				
<i>a</i>	3.0926642	Ω	240.41953	+0.49224860	−0.77690903				
<i>e</i>	0.1235192	<i>i</i>	0.65666	+0.20093674	−0.33738322				
<i>P</i>	5.44	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1997 10 30	704	0.8+	0.3−	1998 12 17	411	0.6+	0.2+	2000 04 05	704	0.1+	0.7+
1997 10 30	704	1.2−	0.1−	1998 12 17	411	1.3+	0.2+	2000 04 07	704	0.3−	1.1−
1997 10 30	704	0.6+	0.1−	1998 12 24	411	1.2−	0.3+	2000 04 07	704	0.2+	0.6−
1997 10 30	704	0.7−	0.1+	1998 12 24	411	0.2−	0.7+	2000 04 07	704	0.9+	0.6+
1997 10 30	704	0.4+	0.7+	1999 01 05	411	0.1−	0.5+	2000 04 07	704	0.3+	0.5+
1998 12 15	704	0.1−	0.1+	1999 01 05	411	0.4+	0.4+	2000 04 07	704	0.3+	0.0
1998 12 15	704	0.4+	1.6−	1999 01 15	411	0.3−	0.3−	2000 04 07	704	0.3+	0.9+
1998 12 15	704	(0.6+	2.3−)	1999 01 15	411	0.4+	0.2−	2000 04 07	704	0.4−	0.7−
1998 12 15	704	0.5−	0.2−	2000 04 05	704	0.1−	0.2−	2000 04 07	704	0.7−	0.4−
1998 12 15	704	1.8−	0.8+	2000 04 05	704	0.1−	0.0	2000 04 07	704	0.2−	0.1−
1998 12 16	411	0.5+	0.9−	2000 04 05	704	0.1−	0.5+				
1998 12 16	411	0.6+	0.3−	2000 04 05	704	0.1−	0.0				

1998 YD₂ = 1980 TJ₆ = 1991 RR₃₂

Id. E. Bowell (2000 observations), G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	148.29544		(2000.0)		P		Q		Williams
<i>n</i>	0.17630435								

2000 APR. 18

M.P.C. 40059

1996 07 14	566	0.3+	0.3-	1998 12 22	910	0.1-	0.4+	2000 03 27	699	0.9+	0.6+
1996 07 14	566	0.5-	0.2-	1998 12 22	910	0.7-	0.4-	2000 03 27	699	0.9-	0.8+
1996 07 14	566	0.4-	0.2-	1998 12 22	910	0.2-	0.0	2000 03 27	699	0.5+	0.2+
1998 02 16	327	0.9+	0.6+	1998 12 22	910	0.1-	0.5+	2000 03 27	699	0.3+	0.1-
1998 02 16	327	0.0	0.0	1999 01 14	699	0.3+	1.1-	2000 04 03	699	0.6+	0.0
1998 02 16	327	0.2-	0.3+	1999 01 14	699	0.4+	1.0+	2000 04 03	699	0.6+	0.1+
1998 11 18	691	0.4+	1.1+	1999 01 14	699	0.9+	0.3-	2000 04 03	699	0.4-	0.4+
1998 11 18	691	0.5+	0.3-	1999 02 10	704	0.3+	1.3+	2000 04 03	699	0.1+	0.6-
1998 11 18	691	0.5+	1.1-	1999 02 10	704	1.5-	0.5-	2000 04 07	704	0.4-	0.3-
1998 12 17	910	0.3-	0.3-	1999 02 10	704	0.0	0.3+	2000 04 07	704	0.6+	0.4+
1998 12 17	910	0.1-	0.1-	1999 02 10	704	(2.5-	0.4+)	2000 04 07	704	0.1-	0.1+
1998 12 17	910	0.2+	0.1+	1999 02 10	704	0.3-	0.1+	2000 04 07	704	0.2-	0.4-

1998 YS₂ = 2000 GR₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.16983504	ω	238.71273	+0.97235244	-0.03526202				
<i>a</i>	3.2293704	Ω	122.35104	+0.09395297	+0.96406848				
<i>e</i>	0.0470690	<i>i</i>	15.85795	-0.21378395	+0.26330316				
<i>P</i>	5.80	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 11 25	699	0.4+	0.2+	1999 02 10	704	0.2+	1.0+	2000 02 06	704	0.3-	0.1-
1998 11 25	699	1.2+	0.0	1999 02 10	704	(0.0	2.6+)	2000 02 06	704	0.1-	0.4+
1998 11 25	699	0.0	0.7+	1999 02 12	699	0.2-	0.6+	2000 03 07	704	0.2-	1.3-
1998 12 17	910	0.1-	0.9-	1999 02 12	699	0.3+	0.2+	2000 03 07	704	0.3-	0.2+
1998 12 17	910	0.3-	0.7-	1999 02 12	699	0.3+	0.5+	2000 03 07	704	0.0	0.9+
1998 12 17	910	0.2-	0.4-	1999 02 13	704	0.3+	0.8-	2000 04 03	704	0.6-	0.1-
1998 12 17	910	0.4-	0.6-	1999 02 13	704	0.2-	1.1-	2000 04 03	704	0.4+	0.1+
1998 12 18	910	0.4-	0.8-	1999 02 13	704	0.7+	1.3+	2000 04 03	704	0.4+	0.6+
1998 12 18	910	0.7-	0.8-	1999 02 13	704	0.7-	0.2+	2000 04 08	704	0.6-	0.8+
1999 01 19	704	1.1-	1.2+	1999 02 13	704	1.0-	0.9+	2000 04 08	704	0.6-	1.0+
1999 01 19	704	0.6+	1.2+	1999 02 18	566	0.0	1.2-	2000 04 08	704	0.1+	0.2+
1999 01 19	704	1.0-	0.2+	1999 02 18	566	0.2-	1.4-	2000 04 14	704	0.1+	0.5+
1999 01 19	704	0.4-	1.1+	1999 02 18	566	0.1+	1.1-	2000 04 14	704	0.1-	0.3-
1999 02 10	704	0.6+	0.1-	2000 02 06	704	0.8+	1.2-	2000 04 14	704	0.4+	0.1-
1999 02 10	704	1.5+	0.2+	2000 02 06	704	0.9-	0.7-	2000 04 14	704	0.1+	1.5-
1999 02 10	704	0.8+	0.5+	2000 02 06	704	0.7+	0.3-	2000 04 14	704	0.6+	0.3+

1998 YT₂ = 2000 GT₁₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18986681	ω	180.91268	+0.52047266	+0.83609890				
<i>a</i>	2.9980349	Ω	120.47011	-0.78213827	+0.54826581				
<i>e</i>	0.0865818	<i>i</i>	11.60220	-0.34259003	+0.01852637				
<i>P</i>	5.19	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 12 17	910	0.0	0.2-	1999 01 19	704	0.8-	1.0+	1999 02 13	704	0.5-	1.4-
1998 12 17	910	0.0	0.1-	1999 01 19	704	0.3-	0.9+	1999 02 13	704	0.5+	1.1-
1998 12 17	910	0.2+	0.1-	1999 01 19	704	0.6-	0.3+	1999 02 18	566	0.8-	0.5-
1998 12 17	910	0.1+	0.0	1999 02 10	704	0.1+	1.1+	1999 02 18	566	0.7-	0.6-
1998 12 18	910	0.3+	0.2-	1999 02 10	704	0.3+	1.0+	1999 02 18	566	1.0-	0.7-
1998 12 18	910	0.3+	0.0	1999 02 10	704	0.1-	0.9+	1999 02 24	699	0.2-	0.8+
1998 12 21	910	0.2-	0.4-	1999 02 10	704	0.3-	1.4+	1999 02 24	699	0.5+	0.2-
1998 12 22	910	0.1-	0.1-	1999 02 10	704	(2.4-	1.8+)	1999 02 24	699	1.1+	0.1+
1998 12 22	910	0.2+	0.3-	1999 02 12	699	1.2+	0.0	2000 04 11	608	0.1-	0.1-
1998 12 22	910	0.1-	0.3-	1999 02 12	699	(2.3+	0.0)	2000 04 11	608	0.3+	0.1-
1998 12 22	910	0.1-	0.1-	1999 02 12	699	1.3+	0.7+	2000 04 11	608	0.2+	0.2-
1998 12 22	910	0.0	0.1-	1999 02 13	704	0.1-	1.4-	2000 04 16	608	0.1+	0.2+
1999 01 19	704	0.6-	0.3-	1999 02 13	704	0.5-	0.1-	2000 04 16	608	0.5-	0.1+
1999 01 19	704	0.8+	0.3+	1999 02 13	704	0.1+	0.8-	2000 04 16	608	0.0	0.1+

1998 YX₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.21440838	ω	276.97620	+0.77233521	-0.62089997				
<i>a</i>	2.7646588	Ω	121.49994	+0.62702100	+0.71139309				
<i>e</i>	0.1320736	<i>i</i>	9.04851	+0.10170049	+0.32924626				
<i>P</i>	4.60	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 12 15	704	0.4+	1.2+	1999 01 11	552	0.6+	0.2+	2000 03 26	699	0.3+	0.3+
1998 12 15	704	0.5+	0.0	1999 01 11	552	0.1-	0.6-	2000 03 26	699	0.5+	0.4+
1998 12 15	704	0.0	0.6-	1999 01 15	552	0.1+	1.3-	2000 03 26	699	0.8+	0.0
1998 12 15	704	0.0	0.4+	1999 01 15	552	0.1-	0.3+	2000 03 28	704	0.2-	0.2+
1998 12 15	704	0.2+	0.5+	1999 02 06	552	0.3+	0.6+	2000 03 28	704	0.7-	0.4+
1998 12 18	552	0.1-	1.2+	1999 02 06	552	0.0	0.3+	2000 03 28	704	1.5+	1.9-
1998 12 18	552	0.3-	0.2+	1999 02 08	552	0.1+	0.6-	2000 04 01	552	0.3-	0.2-
1998 12 19	552	0.0	1.1-	1999 02 08	552	0.2+	0.0	2000 04 01	552	0.6-	0.4-
1998 12 19	552	0.3-	0.0	2000 03 12	703	0.2-	0.1+	2000 04 01	552	0.8-	0.6-
1998 12 19	552	0.2+	0.4-	2000 03 12	703	0.4-	0.0	2000 04 03	704	0.3+	0.1+
1998 12 22	704	0.6-	0.1-	2000 03 12	703	0.6-	0.7+	2000 04 03	704	0.2+	0.7+
1998 12 22	704	0.2+	0.3+	2000 03 12	703	0.9-	0.0	2000 04 03	704	0.4+	0.5+
1998 12 22	704	0.2-	1.2-	2000 03 12	704	0.0	0.1-	2000 04 03	704	0.6-	0.1+
1998 12 22	704	0.5-	0.1-	2000 03 12	704	0.9+	0.7+	2000 04 08	704	0.5-	0.2+
1998 12 22	704	1.2+	0.3+	2000 03 12	704	0.1+	0.1+	2000 04 08	704	0.3+	0.9+
1998 12 22	552	0.2-	0.3+	2000 03 12	704	1.2+	0.2+	2000 04 08	704	0.4-	0.6-
1998 12 22	552	0.2-	0.5-	2000 03 12	552	0.2+	0.2-	2000 04 08	704	0.6-	0.1+
1999 01 06	552	0.6-	0.4+	2000 03 12	552	0.1-	0.1+	2000 04 08	704	1.0+	1.0-
1999 01 06	552	0.2-	0.0	2000 03 12	552	0.8-	0.9-				
1999 01 06	552	0.5-	0.2+	2000 03 26	699	0.6+	0.1+				

1998 YJ₄ = 2000 FK₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17299373	ω	304.67597	-0.38734022	-0.92107345				
<i>a</i>	3.1899397	Ω	167.91722	+0.89588913	-0.38625650				
<i>e</i>	0.1039518	<i>i</i>	10.98589	+0.21760104	-0.04929113				
<i>P</i>	5.70	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1996 06 20	691	0.2-	0.2+	1999 01 18	704	1.4+	0.6-	2000 03 29	704	0.4+	0.1-
1996 06 20	691	0.0	0.3+	1999 01 18	704	0.4-	0.4-	2000 03 29	704	0.1+	0.8-
1996 06 20	691	0.2+	0.1+	1999 01 18	704	0.1+	0.5+	2000 03 29	704	0.4-	0.4-
1998 12 16	426	0.3-	0.1-	1999 01 18	704	0.1+	0.3-	2000 03 29	704	0.4-	0.7-
1998 12 16	426	0.2-	0.2+	1999 01 18	704	1.5+	0.6-	2000 03 29	704	0.3-	0.4-
1998 12 16	426	0.4-	0.1-	1999 01 20	704	0.1+	0.3+	2000 04 02	699	0.2-	0.0
1998 12 18	426	0.9-	0.0	1999 01 20	704	0.9+	0.5-	2000 04 02	699	0.0	0.1+
1998 12 18	426	1.9-	0.2-	1999 01 20	704	0.1+	1.1-	2000 04 02	699	0.3-	0.1+
1998 12 18	426	0.6-	0.5-	1999 02 04	426	0.3-	0.5+	2000 04 02	699	0.3-	0.2-
1998 12 20	426	0.7-	0.1-	1999 02 04	426	0.0	0.4+	2000 04 04	704	0.3+	0.0
1998 12 20	426	0.6-	0.3-	1999 02 04	426	0.3+	0.4+	2000 04 04	704	0.3-	0.7-
1998 12 20	426	1.0-	0.2-	1999 02 10	426	0.1+	1.1+	2000 04 04	704	0.1-	0.3+
1998 12 22	704	0.1-	1.2-	1999 02 10	426	0.1+	0.4+	2000 04 04	704	0.6+	0.5+
1998 12 22	704	0.2-	0.3-	1999 02 10	426	0.7-	0.6+	2000 04 04	704	0.4+	0.9+
1998 12 22	704	(1.2-	2.9+)	2000 03 01	703	0.3+	0.4-	2000 04 06	699	1.1-	0.5+
1998 12 22	704	0.3+	0.7+	2000 03 01	703	0.8-	0.1-	2000 04 06	699	1.3-	1.3+
1998 12 22	704	1.4+	1.0+	2000 03 01	703	0.2+	1.2-	2000 04 06	699	1.0-	0.9+
1999 01 09	426	0.5-	0.1+	2000 03 01	703	0.1-	0.2-	2000 04 06	699	0.9-	0.9+
1999 01 09	426	0.3+	0.6+	2000 03 08	704	1.0+	0.0	2000 04 08	704	0.8+	0.1-
1999 01 09	426	0.6+	0.2+	2000 03 08	704	0.8+	0.5-	2000 04 08	704	0.3+	0.0
1999 01 11	426	0.3+	0.0	2000 03 08	704	0.5+	0.1+	2000 04 08	704	0.6+	0.1-
1999 01 11	426	1.2+	0.1+	2000 03 08	704	0.9+	0.1-	2000 04 08	704	0.1+	0.1-
1999 01 11	426	0.0	0.4+	2000 03 08	704	0.3+	0.2+	2000 04 08	704	0.0	0.0

1998 YR₄ = 2000 GW₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	23.81155		(2000.0)	P		Q	
<i>n</i>	0.18967020	ω	119.11655	-0.95221357	-0.27353041		
<i>a</i>	3.0001063	Ω	45.38815	+0.16841657	-0.84141556		
<i>e</i>	0.0289230	<i>i</i>	11.00596	+0.25480419	-0.46604824		
<i>P</i>	5.20	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 18	046	0.1-	0.4-	1998 12 29	046	0.0	0.2+	2000 04 04	704	0.8+	0.6-
1998 12 18	046	0.0	0.1-	1998 12 29	046	0.0	0.4+	2000 04 04	704	0.4+	1.3+
1998 12 18	046	0.2-	0.5-	1999 01 18	046	0.8+	0.4+	2000 04 04	704	0.6+	1.5+
1998 12 18	046	0.2+	0.3-	1999 01 18	046	0.7-	0.2+	2000 04 04	704	0.9-	1.2+
1998 12 18	046	0.1-	0.0	1999 01 18	046	0.2+	0.3-	2000 04 08	704	0.2+	0.6+
1998 12 18	046	0.2+	0.2-	1999 01 19	704	(0.8+	2.3-)	2000 04 08	704	0.5-	0.8+
1998 12 22	046	0.7-	0.7-	1999 01 19	704	0.9-	0.2+	2000 04 08	704	0.3+	0.5+
1998 12 22	046	0.8-	1.1-	1999 01 19	704	1.6+	1.2-	2000 04 08	704	1.6+	0.1-
1998 12 22	046	0.2+	0.4+	1999 01 19	704	0.1-	1.8+	2000 04 11	608	0.7-	1.9-
1998 12 22	046	0.7+	0.1-	1999 01 19	704	(4.3-	0.2+)	2000 04 11	608	0.7-	1.6-
1998 12 22	046	0.3+	0.1+	1999 01 20	046	0.1-	0.2+	2000 04 11	608	1.2-	1.8-
1998 12 29	046	0.2+	0.0	1999 01 20	046	0.2-	0.1+				
1998 12 29	046	0.5-	0.2+	1999 01 20	046	0.1-	0.4+				

1998 YA₇ = 2000 GF₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	96.03705		(2000.0)	P		Q	
<i>n</i>	0.19570275	ω	321.94477	+0.53976032	-0.81764547		
<i>a</i>	2.9381328	Ω	94.53093	+0.81321326	+0.44495076		
<i>e</i>	0.1597177	<i>i</i>	11.59044	+0.21758446	+0.36534189		
<i>P</i>	5.04	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 13	704	1.1-	0.8-	1998 12 26	120	0.1-	0.1-	2000 03 05	704	(4.3-	0.1-)
1998 11 13	704	1.1+	0.2-	1998 12 26	120	0.7+	0.0	2000 03 05	704	(3.7-	0.7-)
1998 11 13	704	0.8-	1.5+	1998 12 26	120	0.3+	0.3-	2000 03 05	704	(5.1-	0.3+)
1998 11 13	704	0.4-	0.1+	1999 01 05	120	0.4-	0.4-	2000 03 12	704	0.8-	0.2-
1998 12 15	704	0.0	1.5+	1999 01 05	120	0.4+	0.7-	2000 03 12	704	0.3-	0.2-
1998 12 15	704	0.3+	1.0-	1999 01 06	120	0.0	0.1-	2000 03 12	704	0.5+	0.2-
1998 12 15	704	0.8+	0.7-	1999 01 06	120	0.1+	0.1+	2000 03 12	704	0.3+	0.1-
1998 12 15	704	0.7-	0.1+	1999 01 06	120	0.1+	0.2-	2000 03 12	704	0.4-	1.0-
1998 12 16	699	0.1+	0.8-	1999 01 23	699	0.2-	0.7-	2000 04 04	704	0.2+	0.3-
1998 12 16	699	0.2+	0.9+	1999 01 23	699	0.6-	0.0	2000 04 04	704	0.1+	0.0
1998 12 16	699	0.1-	0.4+	1999 01 23	699	1.1+	0.1+	2000 04 04	704	0.7+	0.3+
1998 12 22	120	0.2-	0.2+	1999 02 02	699	0.2+	0.9-	2000 04 04	704	0.9+	0.4+
1998 12 22	120	0.1-	0.6+	1999 02 02	699	0.4-	1.1+	2000 04 04	704	0.2+	0.1-
1998 12 23	120	0.3-	0.1-	1999 02 02	699	0.1+	0.2+	2000 04 08	704	0.3-	0.3-
1998 12 23	120	0.5-	0.2+	2000 01 07	704	0.4+	0.5-	2000 04 08	704	0.4-	0.8+
1998 12 23	120	0.3-	0.2+	2000 01 07	704	0.6-	0.0	2000 04 08	704	0.3-	0.5+
1998 12 25	120	1.1+	0.0	2000 01 07	704	1.2+	0.7-	2000 04 08	704	1.0-	0.4+
1998 12 25	120	0.3-	0.2-	2000 01 07	704	0.4+	1.0+	2000 04 08	704	0.4-	0.6+
1998 12 25	120	0.2+	0.0	2000 03 05	704	(4.5-	0.7+)				

1998 YD₇ = 2000 GF₅₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	82.87695		(2000.0)	P		Q	
<i>n</i>	0.20196979	ω	80.56643	-0.21517302	-0.97651502		
<i>a</i>	2.8770348	Ω	21.86849	+0.88410734	-0.19953115		
<i>e</i>	0.1136047	<i>i</i>	1.67816	+0.41479488	-0.08127567		
<i>P</i>	4.88	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	1.1-	0.0	1999 01 19	704	0.5-	0.4+	2000 04 07	699	0.1-	0.2+
1998 12 14	704	0.1+	0.2-	1999 01 19	704	0.2+	0.1+	2000 04 07	699	0.2-	0.4+
1998 12 14	704	0.8+	1.0-	1999 01 19	704	0.9-	0.6+	2000 04 07	704	0.2-	0.1+

1998 12 14	704	0.4-	0.2-	2000 03 29	691	0.3+	0.1-	2000 04 07	699	0.1-	0.2+
1998 12 17	704	0.3-	0.4+	2000 03 29	691	0.2+	0.3-	2000 04 07	704	0.6-	0.4-
1998 12 17	704	0.6-	0.2-	2000 03 29	691	0.3+	0.3-	2000 04 07	699	0.0	0.2+
1998 12 17	704	0.3-	0.1-	2000 04 04	699	0.4-	0.6+	2000 04 07	704	0.0	0.4+
1998 12 17	704	0.0	0.7-	2000 04 04	699	0.2-	0.5+	2000 04 07	704	0.4-	0.5+
1998 12 17	704	1.2+	0.5+	2000 04 04	699	0.4-	0.3+	2000 04 07	691	0.3+	0.2-
1998 12 20	365	1.1+	0.1+	2000 04 04	699	0.1-	0.2+	2000 04 07	704	0.5-	0.1+
1998 12 20	365	0.6+	0.4-	2000 04 05	704	0.2+	0.1-	2000 04 07	691	0.2+	0.2-
1998 12 22	365	0.4-	0.5+	2000 04 05	704	0.2+	0.2-	2000 04 07	691	0.0	0.1-
1998 12 22	365	0.4-	0.4+	2000 04 05	704	0.2+	0.1-	2000 04 08	704	0.0	0.6+
1998 12 25	365	0.9-	0.2-	2000 04 05	704	0.3+	0.0	2000 04 08	704	0.1+	0.7-
1998 12 25	365	0.0	0.3-	2000 04 05	704	0.1+	0.1-	2000 04 08	704	0.1+	0.6-
1999 01 16	704	0.7+	0.5+	2000 04 06	704	0.2+	0.3+	2000 04 08	691	0.3-	0.4-
1999 01 16	704	0.5+	0.1-	2000 04 06	704	0.1+	0.2+	2000 04 08	704	0.5+	0.5-
1999 01 16	704	1.1+	0.4+	2000 04 06	704	0.1+	0.1-	2000 04 08	691	0.3-	0.4-
1999 01 16	704	(2.3+	0.5+)	2000 04 06	704	0.1-	0.1+	2000 04 08	704	0.3+	0.1-
1999 01 19	704	0.6-	0.3-	2000 04 06	704	0.1+	0.1+	2000 04 08	691	0.2-	0.4-

1998 YF₉ = 2000 DH₄₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	63.95137		(2000.0)	P		Q	
<i>n</i>	0.16986169	ω	318.03610	+0.16778065	-0.98532563		
<i>a</i>	3.2290326	Ω	122.28249	+0.91405416	+0.14357399		
<i>e</i>	0.1191866	<i>i</i>	2.12539	+0.36926229	+0.09230341		
<i>P</i>	5.80	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 24	704	0.1+	0.5-	1998 12 26	327	1.2+	0.5-	2000 03 03	704	0.4-	0.9+
1998 11 24	704	0.1+	0.0	1998 12 26	327	0.0	0.1-	2000 03 03	704	0.1-	1.6+
1998 11 24	704	1.0+	0.1-	2000 02 06	691	0.4+	0.8-	2000 03 03	704	0.0	1.2+
1998 11 24	704	0.2-	0.1+	2000 02 06	691	0.4+	0.7-	2000 03 03	704	0.2-	1.3+
1998 12 23	691	0.4-	0.4+	2000 02 06	691	0.3+	0.8-	2000 03 05	704	0.5-	1.2-
1998 12 23	691	0.3-	0.3+	2000 02 11	704	0.3-	0.4+	2000 03 05	704	0.6-	1.4-
1998 12 23	691	0.5-	0.4-	2000 02 11	704	1.3-	0.2+	2000 03 05	704	0.9-	0.7+
1998 12 23	327	0.1-	0.1-	2000 02 11	704	0.9-	1.3+	2000 03 05	704	0.2+	0.2-
1998 12 23	327	0.6-	0.2-	2000 02 29	704	1.1+	0.1+	2000 03 05	704	0.1+	0.3-
1998 12 23	327	0.4-	0.5+	2000 02 29	704	0.4+	0.7-	2000 03 09	704	0.3+	1.5-
1998 12 24	327	0.2-	0.1+	2000 02 29	704	1.0+	0.3+	2000 03 09	704	0.8+	0.3-
1998 12 24	327	0.4-	0.3+	2000 02 29	704	0.2+	0.4-	2000 03 09	704	0.2-	0.3+
1998 12 24	327	0.5-	0.1+	2000 02 29	704	0.0	0.8+	2000 03 09	704	0.1-	1.1-
1998 12 26	327	1.0+	0.1+	2000 03 03	704	0.6-	0.5+	2000 03 09	704	0.5+	0.1+

1998 YJ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	160.29298		(2000.0)	P		Q	
<i>n</i>	0.22525932	ω	94.51416	+0.88718703	-0.41962334		
<i>a</i>	2.6751463	Ω	290.39530	+0.29850533	+0.83907453		
<i>e</i>	0.1966365	<i>i</i>	11.81231	+0.35184334	+0.34622275		
<i>P</i>	4.38	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 16	699	0.6+	0.4+	1998 12 28	684	0.1-	0.2-	1999 02 20	684	0.1+	0.3-
1998 12 16	699	0.3+	0.2-	1999 01 18	704	1.2+	1.3-	1999 02 21	684	0.1-	0.2+
1998 12 16	699	0.5+	0.4-	1999 01 18	704	0.5+	1.4+	1999 02 21	684	0.2-	0.1-
1998 12 24	691	0.4-	0.1-	1999 01 18	704	0.4+	0.3-	2000 04 06	684	0.1+	0.4-
1998 12 24	691	0.6-	0.0	1999 01 22	684	0.3-	0.2+	2000 04 06	684	0.4+	0.2-
1998 12 24	691	0.6-	0.4-	1999 01 22	684	0.4-	0.4+	2000 04 07	684	0.0	0.4+
1998 12 27	684	0.3-	0.8+	1999 01 23	684	0.4-	0.0	2000 04 07	684	0.5-	0.

2000 APR. 18

M.P.C. 40061

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	217.72301	(2000.0)	P		Q	
<i>n</i>	0.22584865	ω	90.15371	+0.92318105	+0.38296179	
<i>a</i>	2.6704906	Ω	247.32913	-0.36528272	+0.84757502	
<i>e</i>	0.0861541	<i>i</i>	2.03822	-0.11960472	+0.36736475	
<i>P</i>	4.36	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1995 03 10	691	0.2+	0.6+	1999 01 20	704	0.7+	0.3+	2000 04 06	699	0.0	0.6+
1995 03 10	691	0.3+	0.3+	1999 01 20	704	0.7+	0.7+	2000 04 06	704	0.2-	0.1+
1995 03 10	691	0.1-	0.4+	2000 04 03	699	0.5-	1.1+	2000 04 06	704	0.0	0.0
1998 12 26	411	0.5+	0.2+	2000 04 03	699	0.5-	0.3+	2000 04 07	704	1.1+	0.0
1998 12 26	411	0.3+	1.0-	2000 04 03	699	0.9-	0.1-	2000 04 07	704	0.3+	1.0-
1998 12 27	411	0.6+	0.9-	2000 04 03	699	0.2-	0.4+	2000 04 07	704	1.5+	0.2-
1998 12 27	411	0.1+	0.0	2000 04 05	704	0.2-	0.2+	2000 04 07	704	0.3+	0.1+
1999 01 05	411	0.6-	0.1+	2000 04 05	704	0.3-	0.1+	2000 04 07	704	0.9+	0.2+
1999 01 05	411	1.2-	0.2+	2000 04 05	704	0.3-	0.1-	2000 04 08	704	0.1-	0.7-
1999 01 05	411	1.1-	0.3+	2000 04 05	704	0.3-	0.2-	2000 04 08	704	0.5-	0.0
1999 01 07	411	0.3-	0.7-	2000 04 05	704	0.1-	0.2-	2000 04 08	704	0.5+	1.5+
1999 01 07	411	0.4+	0.4+	2000 04 06	699	0.1+	0.6+	2000 04 08	704	0.8-	0.5-
1999 01 07	411	0.3+	1.0-	2000 04 06	704	0.0	0.1-	2000 04 08	704	0.0	0.5-
1999 01 17	411	0.0	1.0+	2000 04 06	699	0.4+	0.0	2000 04 10	704	0.1+	0.9-
1999 01 17	411	1.2-	0.1-	2000 04 06	704	0.7-	0.0	2000 04 10	704	0.3+	0.5-
1999 01 20	704	(2.1+	4.6+)	2000 04 06	699	0.4-	0.7+	2000 04 10	704	0.1+	1.0-
1999 01 20	704	0.7+	0.3-	2000 04 06	704	0.6-	0.1-	2000 04 10	704	0.8+	0.4-

1998 YE₁₂ = 2000 EX₁₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.44575	(2000.0)	P		Q	
<i>n</i>	0.19222081	ω	260.49888	+0.98127654	-0.01691089	
<i>a</i>	2.9735080	Ω	100.29144	+0.08605318	+0.92967889	
<i>e</i>	0.1265770	<i>i</i>	11.24458	-0.17231134	+0.36798257	
<i>P</i>	5.13	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 12 27	411	0.3+	0.1+	1999 01 22	426	0.4-	0.4+	2000 03 11	699	0.2-	0.5+
1998 12 27	411	0.5+	0.2+	1999 01 22	426	0.0	0.1+	2000 03 11	699	0.3-	0.3+
1998 12 28	411	0.3+	0.1-	1999 01 22	426	0.0	0.1-	2000 03 12	703	0.2-	0.2+
1998 12 28	411	0.0	0.0	1999 02 10	704	0.6-	0.7-	2000 03 12	703	0.4-	1.1-
1998 12 29	411	0.2-	0.4-	1999 02 10	704	0.0	0.9-	2000 03 12	703	1.0-	0.0
1998 12 29	411	0.5-	0.1+	1999 02 10	704	0.8-	0.1+	2000 03 12	703	0.4-	0.1+
1999 01 10	411	0.9-	0.3+	1999 02 10	704	0.6-	0.3+	2000 03 29	704	0.3+	0.4+
1999 01 10	411	0.0	0.3+	1999 02 13	704	0.5-	1.1-	2000 03 29	704	0.1+	0.5+
1999 01 19	704	0.7-	0.9+	1999 02 13	704	1.3+	0.4+	2000 03 29	704	0.2+	0.6-
1999 01 19	704	0.3+	1.2-	1999 02 13	704	0.5+	1.6-	2000 03 29	704	0.7+	0.7-
1999 01 19	704	0.7-	0.0	1999 02 13	704	(2.4-	0.7+)	2000 03 29	704	0.8+	0.2+
1999 01 19	704	1.0+	1.3+	2000 02 06	704	0.6+	0.5-	2000 04 03	704	0.2-	0.0
1999 01 20	426	0.5-	0.4+	2000 02 06	704	0.4-	0.6-	2000 04 03	704	0.2-	0.5+
1999 01 20	426	0.1+	0.1+	2000 02 06	704	0.6+	0.8-	2000 04 03	704	0.2-	0.1-
1999 01 20	426	0.4+	0.4+	2000 02 06	704	1.1+	1.7+	2000 04 03	704	0.3-	0.3-
1999 01 21	411	0.9+	0.5+	2000 03 11	699	0.3-	0.3+	2000 04 03	704	0.3-	0.3-
1999 01 21	411	0.7+	0.3-	2000 03 11	699	0.4+	0.6+				

1998 YL₁₃ = 2000 GX₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	164.02875	(2000.0)	P		Q	
<i>n</i>	0.24635534	ω	286.46188	+0.81926736	-0.53501832	
<i>a</i>	2.5201597	Ω	106.31543	+0.57292111	+0.74887956	
<i>e</i>	0.1704154	<i>i</i>	12.41248	+0.02371485	+0.39106879	
<i>P</i>	4.00	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1997 08 01	566	0.0	1.4+	1999 01 19	704	0.5+	0.5-	2000 04 04	704	0.8+	0.1-
1997 08 01	566	0.1+	1.5+	1999 01 19	704	1.9+	1.4+	2000 04 04	704	1.1+	0.8+
1997 08 01	566	0.3-	1.3+	1999 01 19	704	0.1-	0.0	2000 04 04	704	0.1+	0.3-

1998 11 15	699	0.4-	1.5+	1999 01 19	704	0.2-	0.3-	2000 04 05	704	0.5-	0.5-
1998 11 15	699	0.7+	0.1+	1999 02 10	704	0.0	0.6+	2000 04 05	704	0.4-	0.0
1998 11 15	699	0.0	0.5+	1999 02 10	704	0.3-	0.1+	2000 04 05	704	0.6-	0.5-
1998 11 25	699	0.6+	0.2+	1999 02 10	704	0.4-	0.6+	2000 04 07	699	0.7-	0.5+
1998 11 25	699	1.0+	0.9+	1999 02 10	704	0.3+	0.4-	2000 04 07	699	0.2+	0.1+
1998 11 25	699	0.1-	0.5+	1999 02 10	704	0.2-	1.3-	2000 04 07	699	0.3-	0.4-
1998 12 17	691	0.7-	0.1-	1999 02 13	704	0.2+	1.1+	2000 04 07	699	0.3-	0.3+
1998 12 17	691	1.0-	0.1+	1999 02 13	704	0.7+	0.7+	2000 04 13	704	0.4+	0.6+
1998 12 17	691	0.8-	0.3-	1999 02 13	704	0.3-	0.6-	2000 04 13	704	0.3+	0.1-
1998 12 25	691	1.0-	0.5+	1999 02 13	704	1.7+	0.7+	2000 04 13	704	0.1+	0.4+
1998 12 25	691	0.7-	0.4+	1999 02 13	704	0.8-	0.8-	2000 04 13	704	0.1-	0.4+
1998 12 25	691	0.5-	0.3+	2000 04 04	704	0.2+	0.2+	2000 04 13	704	0.1-	0.6+
1999 01 19	704	0.1-	0.8-	2000 04 04	704	0.4+	0.4-				

1998 YD₁₄ = 2000 EH₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	256.26863	(2000.0)	P		Q	
<i>n</i>	0.22741601	ω	174.12203	-0.09477552	+0.98496085	
<i>a</i>	2.6582064	Ω	90.37773	-0.91913635	-0.03084017	
<i>e</i>	0.0790182	<i>i</i>	8.30640	-0.38236889	-0.17000298	
<i>P</i>	4.33	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1998 11 24	704	0.1+	0.5-	1998 12 27	691	0.2+	0.3-	2000 03 11	699	0.3-	0.3+
1998 11 24	704	0.9+	0.9+	2000 02 03	704	0.5+	0.3+	2000 03 11	699	0.1+	0.0
1998 11 24	704	1.4-	0.5+	2000 02 03	704	0.1-	0.4+	2000 03 11	699	0.2-	0.1-
1998 11 24	704	(1.2-	2.9+)	2000 02 03	704	0.5+	0.6+	2000 03 11	699	0.2-	0.4+
1998 12 19	691	0.2-	0.2-	2000 02 03	704	0.4+	0.5+	2000 03 12	703	0.4+	0.6-
1998 12 19	691	0.4-	0.2-	2000 02 03	704	0.3+	0.3+	2000 03 12	703	0.2+	0.2-
1998 12 19	691	0.4-	0.0	2000 02 06	703	0.2+	0.0	2000 03 12	704	0.0	0.4+
1998 12 22	691	0.2-	0.1-	2000 02 06	703	0.5-	1.0-	2000 03 12	703	0.6-	0.8-
1998 12 22	691	0.2+	0.0	2000 02 06	703	0.6-	0.3-	2000 03 12	704	0.1+	0.2-
1998 12 22	691	0.1+	0.1+	2000 02 06	703	0.2-	0.0	2000 03 12	703	0.5+	0.4+
1998 12 26	691	0.3+	0.3-	2000 03 04	704	0.2+	0.7-	2000 03 12	704	0.6-	0.9+
1998 12 26	691	0.3+	0.1+	2000 03 04	704	0.1+	0.0	2000 03 12	704	0.7-	0.0
1998 12 26	691	0.1+	0.2-	2000 03 04	704	0.7+	0.2-	2000 03 12	704	0.2-	0.3-
1998 12 27	691	0.2+	0.2+	2000 03 04	704	0.0	0.2-				
1998 12 27	691	0.3+	0.2-	2000 03 04	704	0.1+	0.2+				

1998 YG₁₇ = 2000 GL₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	342.47721	(2000.0)	P		Q	
<i>n</i>	0.19797252	ω	314.56825	-0.73348692	+0.67957226	
<i>a</i>	2.9156324	Ω	268.24687	-0.61976704	-0.67674863	
<i>e</i>	0.0169231	<i>i</i>	0.76582	-0.27908019	-0.28318339	
<i>P</i>	4.98	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1997 11 03	691	0.0	0.5+	1999 01 17	691	1.5+	0.3+	2000 04 05	704	0.6-	0.3+
1997 11 03	691	0.4-	0.3+	1999 01 17	691	1.5+	0.6+	2000 04 05	704	0.4-	0.7-
1997 11 03	691	0.0	0.5+	1999 01 22	691	0.5+	0.1+	2000 04 06	704	0.1+	0.5+
1998 12 22	691	0.8+	0.5+	1999 01 22	691	0.4+	0.0	2000 04 06	704	0.2+	0.5+
1998 12 22	691	1.1+	0.2+	1999 01 22	691	0.7+	0.1-	2000 04 06	704	0.0	0.4-
1998 12 22	691	1.2+	0.6+	1999 02 09	691	0.4-	0.1-	2000 04 06	704	0.2-	0.1-
1998 12 23	691	1.1-	0.1+	1999 02 09	691	0.2-	0.4-	2000 04 06	704	0.1+	0.2-
1998 12 23	691	0.4-	0.4-	1999 02 09	691	0.3-	0.0	2000 04 07	704	0.0	0.1+
1998 12 23	691	1.6-	0.1+	1999 02 12	691	0.1-	0.2-	2000 04 07	704	0.3+	0.1-
1998 12 26	691	0.4-	0.1-	1999 02 12	691	0.2-	0.2-	2000 04 07	704	0.2-	0.3-
1998 12 26	691	0.6-	0.2-	1999 02 12	691	0.2-	0.0	2000 04 07	704	0.1-	0.5-
1998 12 26	691	0.7-	0.2+	1999 04 09	691	0.4-	0.3-	2000 04 08	704	0.1+	0.8+
1999 01 09	691	0.5-	0.2-	1999 04 09	691	0.5-	0.5-	2000 04 08	704	0.2+	0.9+
1999 01 09	691	1.0-	0.1+	1999 04 09	691	0.0	0.8-	2000 04 08	704	0.1-	0.1+
1999 01 09	691	0.7-	0.1-	2000 04 05	704	0.4-	0.1+	2000 04 08	704	0.7+	0.2+
1999 01 17	691	1.3+	0.1+	2000 04 05	704	0.9+	0.6+				

1998 YS₁₇ = 2000 GR₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23382782	ω	255.12865	+0.95036593	−0.22903462		
<i>a</i>	2.6093876	Ω	117.72795	+0.28376919	+0.91562304		
<i>e</i>	0.2068957	<i>i</i>	13.76316	−0.12759175	+0.33042034		
<i>P</i>	4.22	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 12 11	691	0.4−	0.4+	1999 01 08	691	0.0	0.4−
1998 12 11	691	0.6−	0.8+	1999 01 08	691	0.2+	0.2−
1998 12 11	691	0.4+	0.3−	1999 01 08	691	0.1+	0.3−
1998 12 16	699	1.4+	1.3+	1999 01 15	691	0.2−	0.3−
1998 12 16	699	0.4+	1.4+	1999 01 15	691	0.1−	0.2−
1998 12 16	699	0.6+	0.4−	1999 01 15	691	0.0	0.3−
1998 12 22	704	0.2+	0.2+	1999 01 23	691	0.2−	0.2−
1998 12 22	704	0.5−	0.1+	1999 01 23	691	0.0	0.2−
1998 12 22	704	0.9−	0.6−	1999 01 23	691	0.1−	0.1−
1998 12 22	704	0.4+	0.1+	1999 02 10	704	0.7+	0.3−
1998 12 22	704	(6.9−	1.0−)	1999 02 10	704	0.9+	0.4−
1998 12 23	691	0.0	0.2−	1999 02 10	704	0.3+	0.0
1998 12 23	691	0.1+	0.0	1999 02 10	704	0.6−	0.2+
1998 12 23	691	0.0	0.5−	1999 02 10	704	0.9−	1.3−
1998 12 28	691	0.0	0.5−	1999 02 12	699	0.5+	0.3−
1998 12 28	691	0.2+	0.4−	1999 02 12	699	0.0	1.3+
1998 12 28	691	1.4−	0.3−	1999 02 12	699	0.3+	0.3−

1998 YJ₂₁ = 2000 EX₁₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17096531	ω	120.69092	−0.45704015	+0.87245752		
<i>a</i>	3.2151215	Ω	121.12982	−0.86945454	−0.39722575		
<i>e</i>	0.0870665	<i>i</i>	11.66060	−0.18751828	−0.28465694		
<i>P</i>	5.76	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 12 26	691	0.4−	0.7+	1999 01 19	691	0.3−	0.3−
1998 12 26	691	0.7−	0.1+	2000 03 02	703	0.6+	1.1−
1998 12 26	691	0.3−	0.2+	2000 03 02	703	0.5−	0.2+
1998 12 28	691	0.1+	0.2+	2000 03 02	703	1.1−	1.0+
1998 12 28	691	0.3+	0.1−	2000 03 02	703	0.2+	0.1−
1998 12 28	691	0.5+	0.5+	2000 03 07	704	0.4−	0.8+
1999 01 07	691	0.1−	0.1−	2000 03 07	704	1.9+	0.4−
1999 01 07	691	0.4−	0.0	2000 03 07	704	0.6+	0.8+
1999 01 07	691	0.0	0.0	2000 04 04	699	0.0	0.4−
1999 01 15	691	0.5+	0.3−	2000 04 04	699	0.7−	0.0
1999 01 15	691	0.4+	0.3−	2000 04 04	699	0.1+	0.1−
1999 01 15	691	0.5+	0.4−	2000 04 04	699	0.3−	0.2−
1999 01 19	691	0.2−	0.3−	2000 04 05	704	0.5−	0.3−

1998 YG₂₂ = 1981 JT₆ = 2000 GK₁₀₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20960768	ω	162.61715	+0.44286902	−0.89206275		
<i>a</i>	2.8067125	Ω	261.01739	+0.81140080	+0.44145143		
<i>e</i>	0.0638538	<i>i</i>	5.22501	+0.38143909	+0.09666791		
<i>P</i>	4.70	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1981 05 01	413	0.3−	0.7−	1999 01 05	611	0.2−	0.6+
1998 12 15	704	0.6−	0.4−	1999 01 05	611	0.3+	0.2+
1998 12 15	704	0.7−	1.1−	1999 01 06	611	0.1+	0.0
1998 12 15	704	0.9+	0.7−	1999 01 06	611	0.1+	0.1+
1998 12 15	704	0.2+	0.6−	1999 01 06	611	0.1+	0.1−
1998 12 15	704	1.8−	1.0−	1999 01 14	611	0.2+	0.4+

1998 12 21	327	0.2−	0.8+	1999 01 14	611	0.3−	0.1+	2000 04 07	704	0.0	0.0
1998 12 21	327	0.1+	0.6+	1999 01 18	704	0.4+	1.6−	2000 04 07	704	0.2−	0.4−
1998 12 21	327	0.2+	0.9+	1999 01 18	704	1.5−	1.0−	2000 04 07	704	0.5−	1.6−
1998 12 22	704	0.5+	1.3−	1999 01 18	704	0.8+	1.6−	2000 04 07	704	0.6−	0.3−
1998 12 22	704	1.3+	0.3−	1999 01 18	704	(3.7−	1.1+)	2000 04 07	704	0.4−	0.3−
1998 12 22	704	0.6+	0.6−	1999 01 20	704	1.3+	0.4−	2000 04 08	704	0.1−	0.3−
1998 12 22	704	0.0	1.7+	1999 01 20	704	0.4−	1.2+	2000 04 08	704	0.4−	0.6+
1998 12 27	327	0.2−	0.6−	1999 01 20	704	0.4+	0.6−	2000 04 08	704	0.5−	0.4+
1998 12 27	327	0.2+	0.4−	1999 01 20	704	0.4+	0.9+	2000 04 08	704	0.5−	0.8+
1998 12 27	327	0.7−	1.9+	1999 01 20	704	1.4−	1.6+	2000 04 08	704	0.5−	0.2+
1998 12 29	611	0.4+	0.0	1999 02 12	611	0.6+	0.4+	2000 04 10	704	0.1+	0.5+
1998 12 29	611	0.3+	0.3+	1999 02 12	611	0.1+	0.3−	2000 04 10	704	0.6+	0.7−
1998 12 30	611	0.9−	0.1−	2000 03 14	704	0.2−	0.0	2000 04 10	704	1.1+	0.2+
1998 12 30	611	0.6−	0.7+	2000 03 14	704	0.1−	0.3−	2000 04 10	704	0.2−	1.7+
1999 01 05	611	0.2+	0.2+	2000 03 14	704	1.1+	0.4+	2000 04 10	704	1.1−	0.1+

1998 YK₂₇ = 2000 GY₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17612603	ω	345.04983	−0.90457866	+0.42337166		
<i>a</i>	3.1520059	Ω	220.11629	−0.38274509	−0.85814009		
<i>e</i>	0.1135014	<i>i</i>	4.44510	−0.18773293	−0.29043419		
<i>P</i>	5.60	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1997 10 29	704	0.6+	0.0	1999 01 06	120	0.4+	0.2−
1997 10 29	704	0.1+	0.4+	1999 01 10	699	1.3+	1.7+
1997 10 29	704	0.2−	0.9+	1999 01 10	699	0.1+	1.3−
1997 10 29	704	(5.2−	0.9−)	1999 01 10	699	0.7+	0.2+
1997 11 06	704	(3.2−	0.1+)	1999 01 10	327	0.3−	0.0
1997 11 06	704	1.4−	0.2+	1999 01 10	327	0.5−	0.5−
1997 11 06	704	(4.3−	0.5−)	1999 01 10	327	0.1−	0.4−
1997 11 06	704	(4.4−	0.0)	1999 01 11	327	0.4−	0.3+
1997 11 06	704	(4.5−	0.7+)	1999 01 11	327	0.1−	0.2+
1997 12 06	910	0.0	0.0	1999 01 11	327	0.7−	0.5+
1997 12 06	910	0.3+	0.0	1999 01 13	327	0.1+	0.7+
1997 12 06	910	0.2+	0.1−	1999 01 13	327	0.3+	0.6+
1998 12 25	120	(3.1−	0.7+)	1999 01 13	327	0.2−	0.6+
1998 12 25	120	0.2+	1.1−	1999 01 14	120	0.3−	0.5+
1999 01 05	120	0.7−	0.6−	1999 01 15	120	(2.8+	0.5+)
1999 01 05	120	(2.4+	1.4−)	1999 01 15	120	0.8−	0.5−
1999 01 05	120	0.5−	0.4−	2000 04 05	704	0.1+	0.1−
1999 01 06	120	0.9+	0.4−	2000 04 05	704	0.7+	0.3+
1999 01 06	120	0.5+	0.2−	2000 04 05	704	0.1−	1.0+

1998 YT₂₉ = 2000 GV₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17264611	ω	32.60488	+0.62552334	−0.77648248		
<i>a</i>	3.1942202	Ω	19.03022	+0.65641450	+0.47102327		
<i>e</i>	0.1184182	<i>i</i>	13.50172	+0.42171147	+0.41858337		
<i>P</i>	5.71	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1991 10 05	691	0.2+	0.4+	1998 12 27	699	0.2+	0.5−
1991 10 05	691	0.2−	0.1−	1998 12 27	699	0.1−	1.4−
1991 10 05	691	0.0	0.4−	1999 01 09	699	0.6+	0.7−
1997 10 22	704	0.2+	1.3+	1999 01 09	699	0.1+	0.4−
1997 10 22	704	0.8+	0.5+	1999 01 09	699	0.7+	1.6−
1997 10 22	704	1.4−	0.3−	1999 02 10	704	0.9−	0.0
1997 10 22	704	0.6−	0.7−	1999 02 10	704	0.7−	0.3−
1997 10 29	704	0.2+	1.2−	1999 02 10	704	0.4+	1.6+
1997 10 29	704	0.2+	1.0+	1999 02 10	704	0.0	0.5+
1997 10 29	704	0.1+	0.3+	1999 02 10	704	0.8+	0.9+
1997 10 29	704	0.3+	0.4−	1999 02 13	704	1.4−	0.4−

2000 APR. 18

M.P.C. 40063

1997 10 29 704 0.1− 0.1− 1999 02 13 704 0.0 0.1+ 2000 04 07 704 0.4− 0.3+
 1998 12 27 699 0.4− 0.4+ 1999 02 13 704 1.5+ 0.4+ 2000 04 07 704 0.1− 0.3+

1998 YC₃₀ = 2000 EV₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	70.72876	(2000.0)	P	Q
<i>n</i>	0.22300599	ω	321.41295	−0.22538999
<i>a</i>	2.6931365	Ω	141.01797	+0.94049551
<i>e</i>	0.1298161	<i>i</i>	13.04630	+0.25429813
<i>P</i>	4.42	<i>H</i>	14.4	<i>G</i> 0.15
				<i>U</i> 3

Residuals in seconds of arc

1997 07 11	691	0.4+	0.1+	1998 12 24	327	0.5−	0.6−	2000 03 29	704	0.6+	0.6+
1997 07 11	691	(4.4+	4.6−)	1998 12 24	327	0.6−	0.1−	2000 03 29	704	0.3+	0.2+
1997 07 11	691	0.1+	0.0	1998 12 24	327	0.4+	0.3+	2000 04 03	704	0.3+	0.0
1997 07 14	691	(2.7−	0.1−)	1998 12 25	327	0.5−	0.0	2000 04 03	704	0.3+	0.4−
1997 07 14	691	0.3−	0.0	1998 12 25	327	0.0	0.2+	2000 04 03	704	0.0	0.5−
1997 07 14	691	0.2−	0.1−	1998 12 25	327	0.1−	0.5+	2000 04 03	704	0.4+	0.4+
1998 11 13	704	(1.7+	2.2−)	2000 03 07	704	0.1+	1.0+	2000 04 03	704	1.0+	0.8+
1998 11 13	704	0.1+	0.1−	2000 03 07	704	0.1−	0.4+	2000 04 04	699	1.1−	0.2+
1998 11 13	704	0.9−	1.4+	2000 03 07	704	0.4+	0.0	2000 04 04	699	1.0−	0.4−
1998 11 13	704	1.0+	0.1+	2000 03 12	699	0.0	0.4−	2000 04 04	699	0.7−	0.4+
1998 12 19	327	1.1+	0.2−	2000 03 12	699	0.7−	0.4−	2000 04 04	699	1.1−	0.9+
1998 12 19	327	0.2+	0.4−	2000 03 12	699	0.2−	0.1+	2000 04 13	704	1.2+	1.0−
1998 12 19	327	0.1−	0.3−	2000 03 12	699	0.6−	0.1−	2000 04 13	704	0.5−	0.5−
1998 12 19	327	0.1−	0.2−	2000 03 29	704	0.3+	0.3−	2000 04 13	704	0.4+	0.4−
1998 12 19	327	0.0	0.5−	2000 03 29	704	0.8+	0.7−	2000 04 13	704	0.1−	0.2+
1998 12 19	327	0.1−	0.2−	2000 03 29	704	0.0	0.1+				

1999 AL = 1981 UY₁₁ = 1986 RE₉ = 2000 EL₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	139.10553	(2000.0)	P	Q
<i>n</i>	0.18080729	ω	241.55013	+0.85877027
<i>a</i>	3.0973629	Ω	148.85396	+0.50327179
<i>e</i>	0.2292461	<i>i</i>	7.32102	+0.09607880
<i>P</i>	5.45	<i>H</i>	13.0	<i>G</i> 0.15
				<i>U</i> 2

Residuals in seconds of arc

1981 10 22	095	0.3−	0.5+	1999 01 18	704	1.2−	1.4−	2000 03 29	704	0.9−	0.3−
1986 09 08	095	0.3+	0.5−	1999 01 18	704	0.2+	0.6+	2000 03 29	704	0.6−	0.3+
1994 02 12	809	1.3+	0.0	1999 01 18	704	1.3+	0.6+	2000 03 29	704	0.1−	0.5+
1994 02 12	809	0.3−	1.2−	1999 01 18	704	(2.3−	1.4+)	2000 03 29	704	0.1+	0.0
1994 02 12	809	1.0−	0.7−	1999 01 23	120	0.4+	0.2+	2000 03 29	704	0.3+	1.4+
1998 11 23	699	1.3−	1.0+	1999 01 23	120	0.3+	0.6+	2000 04 02	699	0.5−	0.4−
1998 11 23	699	0.3+	0.3+	1999 02 11	699	0.4+	0.5+	2000 04 02	699	0.6−	0.2−
1998 11 23	699	0.0	2.0−	1999 02 11	699	0.5+	0.4+	2000 04 02	699	0.4−	0.5−
1998 12 23	704	0.2−	0.1−	1999 02 11	699	1.0+	0.8+	2000 04 02	699	1.0−	0.9+
1998 12 23	704	1.1+	1.4+	2000 03 11	699	0.1−	0.1−	2000 04 05	704	0.3+	0.3−
1998 12 23	704	0.2−	1.4+	2000 03 11	699	0.0	0.2+	2000 04 05	704	0.1−	0.7+
1998 12 23	704	0.6−	0.2+	2000 03 11	699	0.5+	0.2+	2000 04 05	704	0.2−	0.5+
1998 12 23	704	1.3−	1.4−	2000 03 11	699	0.2−	0.3+	2000 04 05	704	0.5+	0.0
1999 01 06	120	0.1+	0.4−	2000 03 12	704	0.3−	0.0	2000 04 05	704	0.6+	1.0−
1999 01 06	120	1.0+	0.2−	2000 03 12	704	0.6−	0.8−	2000 04 07	699	1.1+	0.3−
1999 01 06	120	0.3+	0.5−	2000 03 12	704	1.2−	0.5−	2000 04 07	699	1.2+	0.9+
1999 01 06	120	0.2+	0.4−	2000 03 12	704	0.7−	0.3−	2000 04 07	699	0.9+	0.0
1999 01 06	120	0.7−	0.3−	2000 03 12	704	0.0	0.0	2000 04 07	699	0.4+	0.1+
1999 01 07	120	0.3−	0.1+	2000 03 12	704	0.1−	0.7−	2000 04 10	704	0.2−	0.3+
1999 01 13	120	0.2+	0.3−	2000 03 12	704	0.7−	0.2−	2000 04 10	704	0.5+	0.1−
1999 01 13	120	0.2−	0.0	2000 03 12	704	1.8+	1.8+	2000 04 10	704	0.1−	1.4−
1999 01 18	704	1.4−	0.4−	2000 03 12	704	(0.5+	4.2+)	2000 04 10	704	0.0	0.1−

1999 AY = 2000 EQ₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	260.68503	(2000.0)	P	Q
<i>n</i>	0.18536558	ω	325.60911	+0.38405351
<i>a</i>	3.0463747	Ω	326.76149	−0.81010799
<i>e</i>	0.0647541	<i>i</i>	8.57101	−0.44297623
<i>P</i>	5.32	<i>H</i>	13.1	<i>G</i> 0.15
				<i>U</i> 4

Residuals in seconds of arc

1999 01 07	411	0.3+	0.6−	1999 02 04	411	0.4+	0.2−	2000 03 27	699	0.1+	0.1+
1999 01 07	411	0.3+	0.9−	1999 02 08	716	0.8−	0.1−	2000 03 27	699	0.3−	0.2+
1999 01 08	411	0.2−	0.7+	1999 02 08	716	1.0−	0.7+	2000 03 27	699	0.5−	0.2+
1999 01 08	411	0.1−	0.6+	1999 02 12	699	0.3−	0.5+	2000 03 27	699	0.0	0.4+
1999 01 13	411	0.4−	1.0−	1999 02 12	699	0.6+	0.2+	2000 04 06	699	0.5−	0.0
1999 01 13	411	0.7−	0.6−	1999 02 12	699	0.7+	0.1−	2000 04 06	699	0.4−	0.1−
1999 01 19	704	0.3−	0.5−	2000 03 03	703	0.2+	0.4−	2000 04 06	699	0.5−	0.1+
1999 01 19	704	0.9+	0.8+	2000 03 03	703	0.3+	0.5−	2000 04 06	699	0.4−	0.3+
1999 01 19	704	1.2−	0.7+	2000 03 03	703	0.1+	0.2+	2000 04 07	704	0.4+	0.1−
1999 01 19	704	0.6−	1.4+	2000 03 03	703	0.1−	0.2−	2000 04 07	704	0.2+	0.1+
1999 01 26	411	0.7+	0.0	2000 03 09	704	0.2−	0.1+	2000 04 07	704	1.2+	0.3+
1999 01 26	411	0.2+	0.7−	2000 03 09	704	0.5+	0.1+	2000 04 07	704	0.3−	0.4−
1999 02 04	411	1.6+	0.7−	2000 03 09	704	0.4+	0.5−				

1999 AH₂ = 2000 GH₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	147.56071	(2000.0)	P	Q
<i>n</i>	0.23498144	ω	30.09998	+0.62639265
<i>a</i>	2.6008403	Ω	21.14800	+0.70052998
<i>e</i>	0.1123848	<i>i</i>	4.00471	+0.34189179
<i>P</i>	4.19	<i>H</i>	13.7	<i>G</i> 0.15
				<i>U</i> 5

Residuals in seconds of arc

1999 01 09	411	0.2−	1.5−	1999 02 04	411	0.7+	0.7−	2000 04 06	704	0.6−	0.5+
1999 01 09	411	0.8+	0.3−	1999 02 04	411	0.8−	0.3+	2000 04 06	704	0.1−	0.2+
1999 01 10	411	0.1−	0.2+	2000 04 05	704	0.1+	0.1+	2000 04 06	704	0.5−	0.0
1999 01 10	411	1.2−	0.7+	2000 04 05	704	1.4+	0.4−	2000 04 07	704	0.4−	0.3+
1999 01 14	411	0.4+	0.3+	2000 04 05	704	0.3+	0.2+	2000 04 07	704	0.4+	0.2−
1999 01 14	411	0.4+	0.3+	2000 04 05	704	0.6−	0.0	2000 04 07	704	0.3+	0.6−
1999 01 22	411	0.2+	0.3+	2000 04 06	704	0.7−	0.1−	2000 04 07	704	0.1+	0.8+
1999 01 22	411	0.2−	0.3+	2000 04 06	704	0.4+	0.7−				

1999 AJ₂ = 2000 GO₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	317.81113	(2000.0)	P	Q
<i>n</i>	0.18498518	ω	164.93094	−0.43928731
<i>a</i>	3.0505496	Ω	78.76300	−0.84114298
<i>e</i>	0.0538180	<i>i</i>	10.00612	−0.31544435
<i>P</i>	5.33	<i>H</i>	13.5	<i>G</i> 0.15
				<i>U</i> 4

Residuals in seconds of arc

1997 11 06	704(48.3+	31.7+)	1999 02 04	411	0.4−	1.1−	2000 04 08	704	0.4+	0.6+	
1997 11 06	704(49.6+	29.3+)	1999 02 10	704	0.6−	0.8+	2000 04 08	704	0.4+	0.2−	
1997 11 06	704(47.8+	26.9+)	1999 02 10	704	1.2+	0.0	2000 04 09	699	0.2−	0.4+	
1997 11 06	704(50.1+	28.1+)	1999 02 10	704	1.6+	1.1−	2000 04 09	699	0.5−	0.1−	
1997 11 06	704(49.9+	29.7+)	1999 02 10	704	1.4+	0.4−	2000 04 09	699	0.2−	0.4−	
1999 01 09	411	0.7+	0.1+	1999 02 13	704	0.3+	0.0	2000 04 09	699	0.2+	0.5−
1999 01 09	411	0.5+	0.7−	1999 02 13	704	0.3−	0.6+	2000 04 12	704	0.5−	0.9+
1999 01 10	411	0.3+	1.1−	1999 02 13	704	1.2−	1.2+	2000 04 12	704	0.5−	0.6−
1999 01 10	411	0.2−	0.0	1999 02 13	704	0.3−	1.2−	2000 04 12	704	0.3−	0.6+
1999 01 16	411	0.2−	0.5+	2000 04 04	704	0.1+	0.4+	2000 04 12	704	0.1+	0.2−
1999 01 16	411	0.0	0.7+	2000 04 04	704	0.4+	0.2−	2000 04 13	704	0.5+	1.3−
1999 01 16	411	0.4−	0.7+	2000 04 04	704	0.5+	0.3−	2000 04 13	704	0.0	0.4+
1999 01 22	411	1.1−	0.8+	2000 04 04	704	0.1+	0.1−	2000 04 13	704	0.4+	0.3+
1999 01 22	411	0.3−	0.1+	2000 04 04	704	0.6−	0.5+	2000 04 13	704	0.2−	0.0
1999 02 04	411	0.7−	0.0	2000 04 08	704	0.1+	0.4+	2000 04 13	704	0.0	0.4−

1999 AO₂ = 1986 RK₉ = 2000 EK₁₅₄

Id. G. V. Williams, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18423707	ω	34.47262	+0.95967523	−0.27647383		
<i>a</i>	3.0588020	Ω	341.37708	+0.20844794	+0.82123835		
<i>e</i>	0.1554907	<i>i</i>	9.16244	+0.18860783	+0.49912903		
<i>P</i>	5.35	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1986 09 08	095	0.4−	0.7+	1999 02 10	704	0.1+	0.5+	2000 03 12	699	0.2−	0.6+
1998 12 18	699	0.6+	0.3+	1999 02 10	704	0.3+	0.8+	2000 03 12	699	0.2+	0.1−
1998 12 18	699	0.6+	1.4−	1999 02 10	704	0.7+	0.0	2000 03 12	699	0.6+	0.0
1998 12 18	699	1.6−	0.7+	1999 02 13	704	0.3−	1.1−	2000 03 12	699	0.2+	0.2−
1999 01 09	411	0.5+	0.4−	1999 02 13	704	1.3+	0.0	2000 03 17	704	0.9+	0.7−
1999 01 09	411	0.3+	0.6+	1999 02 13	704	1.4−	1.6+	2000 03 17	704	1.6−	1.3+
1999 01 10	411	0.6+	0.1−	1999 02 13	704	(1.7−	2.4+)	2000 03 17	704	1.7−	0.5+
1999 01 10	411	0.3+	0.3−	1999 02 18	566	0.6+	0.3+	2000 04 07	699	0.5−	0.1+
1999 01 14	411	0.3+	1.3−	1999 02 18	566	0.4+	0.0	2000 04 07	699	0.8−	0.2+
1999 01 14	411	1.1+	1.2−	1999 02 18	566	0.5+	0.2+	2000 04 07	699	0.8−	0.1−
1999 01 16	411	1.2−	0.0	2000 03 03	703	0.2+	0.1−	2000 04 07	704	0.2−	0.2−
1999 01 16	411	1.0−	0.3−	2000 03 03	703	0.1+	0.5−	2000 04 07	699	0.1−	1.5+
1999 01 19	704	0.4+	0.7+	2000 03 03	703	0.0	0.3+	2000 04 07	704	0.1−	0.1−
1999 01 19	704	0.4−	1.4+	2000 03 03	703	0.2−	1.0+	2000 04 07	704	0.1+	0.1−
1999 01 19	704	0.9−	0.4−	2000 03 06	608	0.1+	0.6−	2000 04 07	704	0.4+	0.4−
1999 01 19	704	0.1−	0.7+	2000 03 06	608	0.2+	0.4−	2000 04 07	704	0.6+	0.0
1999 01 22	411	0.2−	0.1+	2000 03 06	608	0.1−	0.6−	2000 04 08	704	0.2−	0.6+
1999 01 22	411	0.3−	0.3−	2000 03 09	704	0.6+	0.3−	2000 04 08	704	0.3+	0.9−
1999 02 04	411	0.7−	0.1+	2000 03 09	704	0.4−	0.1−	2000 04 08	704	1.1+	0.2+
1999 02 04	411	0.2+	0.9−	2000 03 09	704	0.4+	0.2−	2000 04 08	704	0.6+	0.3−
1999 02 10	704	0.5−	0.1−	2000 03 09	704	0.1−	0.0	2000 04 08	704	0.7+	0.5+
1999 02 10	704	0.1−	0.4+	2000 03 09	704	0.4+	0.7−				

1999 AT₃ = 2000 GH₁₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21287622	ω	301.42635	+0.80354563	−0.57366902		
<i>a</i>	2.7779085	Ω	94.04545	+0.58574907	+0.71461072		
<i>e</i>	0.0345568	<i>i</i>	9.16042	+0.10588881	+0.40029411		
<i>P</i>	4.63	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 10	411	0.7−	1.2−	1999 01 28	411	0.5+	0.3+	2000 04 11	691	0.3+	0.3−
1999 01 10	411	0.4−	0.3+	1999 01 28	411	0.6−	0.3−	2000 04 12	704	0.4−	0.6+
1999 01 11	411	0.1−	0.3+	1999 02 07	411	1.0−	0.1+	2000 04 12	704	0.1−	0.9+
1999 01 11	411	0.2−	0.2+	1999 02 07	411	0.1+	0.7−	2000 04 12	704	0.2−	0.6−
1999 01 17	411	0.4+	0.2−	2000 04 10	691	0.2−	0.2−	2000 04 13	691	0.0	0.2−
1999 01 17	411	0.3−	0.3+	2000 04 10	691	0.1−	0.0	2000 04 13	691	0.1+	0.1+
1999 01 22	699	0.5+	0.5+	2000 04 10	691	0.1+	0.1+	2000 04 13	691	0.1+	0.0
1999 01 22	699	0.4+	0.1−	2000 04 11	691	0.3+	0.1−				
1999 01 22	699	1.4+	0.5+	2000 04 11	691	0.2+	0.3−				

1999 AP₄ = 2000 EB₁₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23428969	ω	193.92711	+0.61440147	+0.74679274		
<i>a</i>	2.6059571	Ω	114.61988	−0.69443029	+0.66500950		
<i>e</i>	0.1172550	<i>i</i>	16.26252	−0.37453625	−0.00793562		
<i>P</i>	4.21	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 11	411	0.2+	0.4−	1999 02 06	411	0.0	0.3−	2000 03 02	703	0.6+	0.0
1999 01 11	411	1.6+	1.0+	1999 02 06	411	0.2+	0.6−	2000 03 08	704	0.9−	0.0
1999 01 12	411	0.6+	0.2−	1999 02 10	704	0.9+	0.2−	2000 03 08	704	0.0	0.4+
1999 01 12	411	0.9+	1.0−	1999 02 10	704	0.2−	0.9−	2000 03 08	704	0.4+	0.0

1999 01 18	411	1.6−	1.0−	1999 02 10	704	0.0	0.9−	2000 04 04	704	1.3+	1.4−
1999 01 18	411	0.7−	0.2+	1999 02 10	704	0.3+	0.2+	2000 04 04	704	0.5−	0.2−
1999 01 19	411	1.6−	0.5−	1999 02 13	704	0.8−	0.3+	2000 04 04	704	0.6+	0.4+
1999 01 19	411	0.9−	0.1+	1999 02 13	704	0.2−	1.3−	2000 04 04	704	0.0	0.2+
1999 01 19	411	1.1−	0.3−	1999 02 13	704	1.4+	1.6+	2000 04 04	704	0.3−	0.3+
1999 01 22	699	0.7+	0.1+	1999 02 13	704	0.1−	0.3+	2000 04 14	704	0.1−	0.3−
1999 01 22	699	0.8+	1.7+	1999 02 13	704	0.1+	0.5+	2000 04 14	704	0.1−	0.1−
1999 01 22	699	0.3+	1.4+	2000 03 02	703	0.4+	0.5−	2000 04 14	704	0.8−	1.3+
1999 01 28	411	(2.1−	1.7+)	2000 03 02	703	0.4−	0.2+				
1999 01 28	411	0.7−	0.4+	2000 03 02	703	0.2−	0.5−				

1999 AT₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18189564	ω	221.77260	+0.81998593	+0.54432422		
<i>a</i>	3.0849954	Ω	104.41393	−0.46470155	+0.81364430		
<i>e</i>	0.0538382	<i>i</i>	10.53102	−0.33417891	+0.20419133		
<i>P</i>	5.42	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 11	411	0.4+	0.2+	1999 02 06	411	0.1−	0.5−	1999 02 13	704	0.2+	0.1−
1999 01 11	411	0.7−	0.6+	1999 02 06	411	0.2−	0.3−	2000 04 07	699	0.2+	0.3+
1999 01 12	411	0.9+	0.0	1999 02 10	704	0.3+	0.2−	2000 04 07	699	0.4+	0.4+
1999 01 12	411	0.2+	0.7−	1999 02 10	704	0.3+	0.9+	2000 04 07	699	0.3+	0.1−
1999 01 18	411	1.3−	1.0−	1999 02 10	704	0.7+	0.9+	2000 04 07	699	0.4+	0.3+
1999 01 18	411	0.1+	0.3+	1999 02 10	704	0.1+	0.8+	2000 04 09	699	0.2+	1.0−
1999 01 22	699	0.1+	0.2+	1999 02 10	704	0.3−	0.3+	2000 04 09	699	0.0	0.2−
1999 01 22	699	0.5−	0.2+	1999 02 13	704	1.7−	0.9+	2000 04 09	699	1.0−	0.5+
1999 01 22	699	0.1+	0.1−	1999 02 13	704	1.5+	1.5−	2000 04 09	699	0.4−	0.2−
1999 01 28	411	0.3+	0.4+	1999 02 13	704	0.6−	0.6−				
1999 01 28	411	0.1+	0.0	1999 02 13	704	0.1+	0.6−				

1999 AK₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19020898	ω	51.79454	+0.35352532	−0.93359985		
<i>a</i>	2.9944383	Ω	17.77356	+0.78727243	+0.26323308		
<i>e</i>	0.1073711	<i>i</i>	11.03053	+0.50519498	+0.24310424		
<i>P</i>	5.18	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 30	704	0.4+	1.2+	1999 01 19	704	0.2+	1.7+	2000 03 14	704	0.2−	0.1−
1997 10 30	704	0.4+	1.4+	1999 01 21	886	0.5−	1.0+	2000 03 14	704	0.5−	0.7+
1997 10 30	704	0.7−	0.3+	1999 01 21	886	0.3−	1.6+	2000 03 14	704	0.6−	0.2−
1997 10 30	704	1.1−	0.7+	1999 02 06	888	0.1−	0.1−	2000 03 14	704	0.4−	0.3−
1997 10 30	704	0.6−	0.7−	1999 02 06	888	0.1−	0.2−	2000 03 30	704	0.9+	0.2−
1997 12 30	566	0.2−	0.3−	1999 02 10	704	0.1+	0.2+	2000 03 30	704	0.1−	0.2−
1997 12 30	566	0.1−	0.2−	1999 02 10	704	0.0	0.1−	2000 03 30	704	1.0+	1.8+
1997 12 30	566	0.0	0.0	1999 02 10	704	0.0	1.0+	2000 04 07	704	0.4+	0.1−
1999 01 09	905	1.0+	0.0	1999 02 10	704	0.0	1.4+	2000 04 07	704	0.3+	0.2+
1999 01 09	905	1.3+	0.1+	1999 02 10	704	0.6−	0.1−	2000 04 07	704	0.5+	1.7+
1999 01 10	905	0.6+	1.2−	1999 02 13	704	0.8+	0.2+	2000 04 08	704	0.2−	0.2+
1999 01 10	905	1.2−	0.1+	1999 02 13	704	0.1+	0.5+	2000 04 08	704	0.3+	0.2−
1999 01 13	699	0.5−	0.2−	1999 02 13	704	0.8+	0.1−	2000 04 08	704	0.1−	1.7+
1999 01 13	699	0.1−	1.4−	1999 02 13	704	0.7+	0.2+	2000 04 08	704	0.4+	0.8+
1999 01 13	699	0.3−	1.6−	1999 02 13	704	0.2−	0.5+	2000 04 08	704	0.0	0.0
1999 01 13	905	0.2+	0.3−	1999 02 21	888	0.3+	0.2−	2000 04 11	888	0.1+	0.1−
1999 01 13	905	0.6+	1.4−	1999 02 21	888	0.1−	0.2−	2000 04 11	888	0.4−	0.5−
1999 01 18	888	0.9−	0.1−	1999 04 07	888	0.1−	1.3−	2000 04 11	888	0.1+	0.8−
1999 01 18	888	0.7−	0.5−	1999 04 07	888	0.3−	0.2−	2000 04 12	888	0.3−	0.4−
1999 01 19	704	0.2−	0.4+	1999 05 08	704	(1.7+	2.8−)	2000 04 12	888	0.5+	0.4−
1999 01 19	704	0.5−	0.4+	1999 05 08	704	(0.5−	4.5−)	2000 04 12	888	0.4+	0.4−
1999 01 19	704	1.0−	0.4+	1999 05 08	704	0.8−	1.9−				
1999 01 19	704	1.2+	0.5+	2000 03 14	704	0.2−	0.1+				

2000 APR. 18

M.P.C. 40065

1999 AR₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	162.41584	(2000.0)	P	Q
<i>n</i>	0.19228609	ω 312.06033	+0.73389418	-0.65458016
<i>a</i>	2.9728350	Ω 89.67578	+0.66442026	+0.63623172
<i>e</i>	0.0665338	<i>i</i> 10.45441	+0.14122698	+0.40833076
<i>P</i>	5.13	<i>H</i> 12.9	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 11 25	704	0.4-	0.1+	1999 01 20	411	0.5+	0.3+	1999 02 13	704	0.3-	0.4-
1998 11 25	704	(3.1+	1.6-)	1999 01 28	411	0.5-	0.3-	1999 02 13	704	0.6-	0.3-
1998 11 25	704	0.2-	1.9+	1999 01 28	411	0.4+	0.2-	1999 02 19	566	0.8-	0.5-
1998 11 25	704	0.9+	1.4-	1999 02 07	411	0.2+	0.2+	1999 02 19	566	0.5-	0.2+
1998 12 14	699	0.5-	0.3-	1999 02 07	411	0.1+	0.3+	1999 02 19	566	0.8-	0.5-
1998 12 14	699	1.1-	0.1+	1999 02 10	704	0.4+	0.5+	2000 04 07	699	0.5-	0.8-
1998 12 14	699	0.9+	0.4+	1999 02 10	704	0.5+	0.0	2000 04 07	699	0.3+	0.3+
1998 12 27	699	0.2+	0.3+	1999 02 10	704	0.3+	0.3+	2000 04 07	699	0.3-	0.2-
1998 12 27	699	0.2-	0.6-	1999 02 10	704	0.2-	0.1+	2000 04 07	699	0.1-	0.2+
1998 12 27	699	0.3+	0.7-	1999 02 10	704	1.8-	0.1-	2000 04 09	699	0.4+	0.0
1999 01 12	411	0.4-	0.6-	1999 02 13	716	1.3+	0.6-	2000 04 09	699	0.1+	0.2+
1999 01 12	411	0.4-	0.0	1999 02 13	716	0.0	0.7+	2000 04 09	699	0.2+	0.1+
1999 01 13	411	0.7+	0.2+	1999 02 13	704	1.3+	0.3+	2000 04 09	699	0.0	0.2+
1999 01 13	411	0.5-	0.0	1999 02 13	704	0.9+	0.2+				
1999 01 20	411	0.1+	0.1-	1999 02 13	704	0.3+	0.4+				

1999 AG₆ = 2000 AZ₂₄₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.64354	(2000.0)	P	Q
<i>n</i>	0.23220545	ω 87.11868	+0.96522236	+0.14027503
<i>a</i>	2.6215276	Ω 264.74558	-0.21576829	+0.90392331
<i>e</i>	0.2112005	<i>i</i> 12.79955	+0.14761383	+0.40403659
<i>P</i>	4.24	<i>H</i> 12.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 11 16	704	0.2+	0.4-	1999 01 11	704	(2.6-	0.1+)	2000 01 11	704	0.3-	0.4-
1998 11 16	704	(2.1-	0.6+)	1999 01 14	699	0.5+	0.0	2000 01 11	704	0.3-	0.9-
1998 11 16	704	0.0	0.4-	1999 01 14	699	0.3+	0.1+	2000 01 11	704	0.8-	0.2-
1998 11 16	704	0.5+	1.1-	1999 01 14	699	0.5-	0.0	2000 02 05	703	0.2+	0.4+
1998 11 16	704	0.3+	1.4-	1999 11 08	703	0.0	1.4+	2000 02 05	703	0.3-	0.5+
1998 12 09	704	0.1+	0.8+	1999 11 08	703	1.1+	0.0	2000 02 05	703	0.7+	0.8+
1998 12 09	704	0.0	1.0+	1999 11 08	703	0.8+	0.5-	2000 02 05	703	0.3+	0.1+
1998 12 09	704	(2.8+	1.8+)	1999 11 08	703	0.6+	0.4-	2000 02 08	704	0.5+	0.0
1998 12 09	704	0.4-	1.2+	1999 12 14	704	0.4-	0.2-	2000 02 08	704	0.5+	0.1+
1998 12 09	704	0.1-	1.0-	1999 12 14	704	0.1-	0.9-	2000 02 08	704	0.1-	0.3-
1999 01 08	704	0.3-	0.3-	1999 12 14	704	0.1+	1.3-	2000 02 08	704	0.2+	0.2-
1999 01 08	704	0.3+	0.0	1999 12 14	704	0.0	1.5-	2000 02 08	704	0.0	0.4-
1999 01 08	704	0.6+	0.8+	1999 12 14	704	1.6-	1.6-	2000 03 08	704	0.5-	0.7+
1999 01 08	704	0.1-	1.0+	2000 01 07	699	1.2+	0.5+	2000 03 08	704	0.8-	0.3+
1999 01 08	704	0.5+	0.2+	2000 01 07	699	0.2+	1.0+	2000 03 08	704	0.6-	0.2-
1999 01 11	704	0.2+	0.2-	2000 01 07	699	1.2+	0.1+	2000 03 08	704	0.5-	0.8+
1999 01 11	704	1.0-	0.1-	2000 01 11	704	0.2-	0.5-	2000 03 08	704	0.6-	1.5+
1999 01 11	704	1.5-	1.1+	2000 01 11	704	0.3-	0.7-				

1999 AE₇ = 2000 GP₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	270.42590	(2000.0)	P	Q
<i>n</i>	0.23960615	ω 159.38163	+0.64971186	+0.75611274
<i>a</i>	2.5672652	Ω 150.96868	-0.71815832	+0.64438571
<i>e</i>	0.1949838	<i>i</i> 9.31345	-0.24924512	+0.11428291
<i>P</i>	4.11	<i>H</i> 13.2	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1999 01 09	120	0.1-	0.3-	2000 04 04	704	0.0	0.0	2000 04 08	704	0.2+	0.2-
1999 01 09	120	0.8+	1.2+	2000 04 04	704	0.4+	0.4-	2000 04 08	704	0.4+	0.7-
1999 01 10	120	0.9+	0.2-	2000 04 04	704	0.2+	0.2-	2000 04 09	699	0.4-	0.4+
1999 01 13	120	0.2+	0.8-	2000 04 04	704	0.3+	0.1+	2000 04 09	699	0.2+	0.5+
1999 01 14	120	1.3+	0.2+	2000 04 04	704	0.4+	0.1-	2000 04 09	699	0.2-	0.5+
1999 01 14	120	0.5-	0.7+	2000 04 07	704	0.2+	0.0	2000 04 09	699	0.1-	0.4+
1999 01 16	120	0.7+	0.1-	2000 04 07	704	0.4+	0.4+	2000 04 13	704	0.1-	0.1-
1999 01 17	120	0.3-	0.1+	2000 04 07	704	0.1-	0.4+	2000 04 13	704	0.8-	1.0+
1999 01 20	120	1.8-	0.5+	2000 04 07	704	0.1+	0.3+	2000 04 13	704	0.1+	0.2+
1999 01 20	120	1.5-	0.8-	2000 04 07	699	0.2-	0.4-	2000 04 13	704	0.3+	0.9+
1999 01 20	120	0.9-	0.1-	2000 04 07	699	0.3-	0.4-	2000 04 13	704	0.6-	1.0+
1999 02 11	699	0.2-	0.4-	2000 04 07	699	0.6-	0.1+	2000 04 13	608	0.2+	1.3-
1999 02 11	699	0.1-	0.3+	2000 04 07	699	0.4-	0.2-	2000 04 13	608	0.1+	1.4-
1999 02 11	699	1.6+	0.2-	2000 04 08	704	0.3+	0.6+	2000 04 13	608	0.2+	1.5-

1999 AH₇ = 2000 GT₉₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	324.52735	(2000.0)	P	Q
<i>n</i>	0.21163748	ω 19.01373	-0.37352349	+0.92590544
<i>a</i>	2.7887377	Ω 229.09556	-0.86045130	-0.36854515
<i>e</i>	0.0117922	<i>i</i> 4.27843	-0.34655989	-0.08290711
<i>P</i>	4.66	<i>H</i> 13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 10 09	691	0.1-	0.6+	1999 01 14	120	0.3-	0.1-	1999 02 11	699	1.0+	0.6+
1997 10 09	691	0.2-	0.5+	1999 01 14	120	0.9-	0.5+	1999 02 11	699	0.8+	0.1-
1997 10 09	691	0.1-	0.7+	1999 01 14	120	0.5-	0.4+	1999 02 12	120	0.5+	0.4-
1997 10 23	691	0.1-	0.0	1999 01 14	120	0.5-	0.3-	1999 02 12	120	1.0-	1.3-
1997 10 23	691	0.0	0.0	1999 01 16	120	(2.4-	0.3-)	2000 04 06	704	0.2-	0.2-
1997 10 23	691	0.1+	0.4-	1999 01 16	120	0.6-	0.7-	2000 04 06	704	0.4-	0.1-
1999 01 09	120	0.9+	1.6-	1999 01 16	120	0.8-	1.2+	2000 04 06	704	0.3+	0.1-
1999 01 09	120	0.4+	0.3-	1999 01 17	120	0.7-	0.3+	2000 04 06	704	0.2-	0.4+
1999 01 10	699	0.6+	0.1+	1999 01 17	120	0.1-	0.1+	2000 04 06	704	1.0+	0.8+
1999 01 10	699	1.1+	0.4-	1999 01 20	120	1.2+	0.2+	2000 04 08	704	0.1+	0.2-
1999 01 10	699	(0.2+	2.9+)	1999 01 20	120	1.5-	0.3-	2000 04 08	704	0.8+	0.4+
1999 01 13	120	1.3+	0.1-	1999 01 20	120	0.6-	0.3-	2000 04 08	704	0.3-	0.5+
1999 01 14	120	0.2-	0.6+	1999 01 21	120	0.6-	0.5+	2000 04 08	704	0.7-	0.0
1999 01 14	120	0.6+	0.5+	1999 01 21	120	0.5-	0.3-				
1999 01 14	120	0.3+	0.4+	1999 02 11	699	0.4+	1.1+				

1999 AM₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	344.89219	(2000.0)	P	Q
<i>n</i>	0.18405894	ω 68.10581	-0.75843009	+0.64653887
<i>a</i>	3.0607752	Ω 151.97229	-0.64372542	-0.72333588
<i>e</i>	0.0418985	<i>i</i> 10.08555	-0.10198719	-0.24243082
<i>P</i>	5.35	<i>H</i> 13.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 09 13	566	0.0	0.1+	1999 01 20	120	0.1-	0.3-	2000 04 04	704	0.3-	1.1-
1996 09 13	566	0.1-	0.3+	1999 01 21	120	0.4-	0.0	2000 04 04	704	0.3+	0.0
1996 09 13	566	0.1-	0.2+	1999 01 21	120	0.5-	0.0	2000 04 04	704	0.3-	0.2-
1999 01 10	120	0.5+	0.4+	1999 01 21	120	0.2-	0.0	2000 04 04	704	0.0	0.1+
1999 01 10	120	1.0-	0.5+	1999 02 05	120	0.2+	0.2-	2000 04 04	704	1.2+	0.5-
1999 01 14	120	0.6-	0.6+	1999 02 05	120	0.4-	0.3-	2000 04 04	704	0.7-	0.4+
1999 01 14	120	1.4-	0.0	1999 02 11	699	(0.0	2.3+)	2000 04 04	704	(0.4-	2.4-)
1999 01 14	120	0.2-	0.4+	1999 02 11	699	1.1+	0.3-	2000 04 04	704	0.3-	0.8+
1999 01 14	120	0.1+	0.1+	1999 02 11	699	0.5-	1.2+	2000 04 09	699	0.2-	0.0
1999 01 16	120	0.5+	0.5+	1999 02 12	704	0.1+	0.1+	2000 04 09	699	0.2-	0.3+
1999 01 16	120	0.5-	0.3+	1999 02 12	704	0.2+	0.4-	2000 04 09	699	0.8-	0.3+
1999 01 18	704	0.7+	1.8-	1999 02 12	704	0.0	1.6-	2000 04 09	699	0.4-	0.1+
1999 01 18	704	0.8-	0.8+	1999 02 12	704	0.9+	1.2-	2000 04 13	704	(2.9+	0.4-)
1999 01 18	704	0.5-	0.9+	1999 02 12	704	0.7+	1.0-	2000 04 13	704	1.4+	0.7+
1999 01 18	704	1.2+	1.3+	1999 02 16	704	0.4+	0.9+	2000 04 13	704	1.0+	0.2-

M.P.C. 40066

2000 APR. 18

1999 01 18	704	(4.1– 2.0+)	1999 02 16	704	0.5– 0.6–	2000 04 13	704	0.4– 0.1–
1999 01 20	120	0.3+ 1.1+	1999 02 16	704	1.0+ 0.0			
1999 01 20	120	1.0– 0.5+	1999 02 16	704	1.1+ 1.6–			

1999 AO₇ = 2000 FK₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	292.83546		(2000.0)	P	Q			
<i>n</i>	0.18967089	ω	137.03172	–0.23831296	+0.95330090			
<i>a</i>	3.0000990	Ω	118.38426	–0.93841166	–0.17681596			
<i>e</i>	0.0542258	<i>i</i>	12.17460	–0.25018090	–0.24485404			
<i>P</i>	5.20	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1996 07 22	566	0.3+ 0.1–	1999 01 23	120	0.9+ 0.2+	2000 04 03	704	0.1– 0.4+
1996 07 22	566	0.3– 0.1+	1999 02 06	120	0.9– 0.4–	2000 04 03	704	0.6– 0.5+
1996 07 22	566	0.4+ 0.1–	1999 02 06	120	0.3– 0.5+	2000 04 03	704	0.3– 0.2+
1996 07 22	566	0.1+ 0.1–	1999 02 06	120	0.6– 0.7–	2000 04 03	704	0.1– 0.6+
1996 07 22	566	0.2+ 0.0	1999 02 06	120	0.3+ 0.5+	2000 04 08	704	0.1+ 0.2–
1996 07 22	566	0.8– 0.3+	1999 02 06	120	0.9+ 1.0+	2000 04 08	704	0.2+ 0.3–
1999 01 11	120	0.4– 0.0	1999 02 12	120	0.5+ 0.7+	2000 04 08	704	0.1– 0.3+
1999 01 11	120	0.4– 1.6+	1999 02 12	120	0.1– 0.7–	2000 04 08	704	0.2+ 0.5+
1999 01 11	120	1.2+ 0.1–	1999 02 12	120	0.1– 0.8–	2000 04 08	704	0.3– 0.7+
1999 01 13	120	0.0 0.4–	1999 02 12	120	1.2– 0.2–	2000 04 10	704	0.2+ 0.0
1999 01 13	120	0.6+ 0.6–	2000 03 11	703	1.1+ 1.2+	2000 04 10	704	0.5+ 0.3+
1999 01 15	120	1.8– 0.9+	2000 03 11	703	1.8– 0.0	2000 04 10	704	0.4+ 0.3–
1999 01 15	120	1.1+ 1.0–	2000 03 11	703	0.4– 0.1–	2000 04 10	704	0.2+ 0.2+
1999 01 19	120	0.3– 0.1–	2000 03 11	703	0.7– 0.2–	2000 04 10	704	0.0 0.1–
1999 01 20	704	1.1– 1.4+	2000 03 29	704	0.0 0.1–	2000 04 13	704	1.0+ 0.0
1999 01 20	704	0.2+ 0.0	2000 03 29	704	0.4– 0.4–	2000 04 13	704	1.3+ 0.9+
1999 01 20	704	1.6+ 1.4–	2000 03 29	704	0.5+ 0.9–	2000 04 13	704	0.4– 1.0+
1999 01 20	704	(1.0+ 2.7–)	2000 03 29	704	0.0 0.4–	2000 04 13	704	0.4+ 0.3–
1999 01 20	704	0.8– 0.3+	2000 03 29	704	0.5+ 0.9–	2000 04 13	704	0.8– 1.8–
1999 01 23	120	0.6+ 0.4–	2000 04 03	704	0.3– 0.5–			

1999 AW₇

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	211.22186		(2000.0)	P	Q			
<i>n</i>	0.23974240	ω	263.54936	+0.96768011	+0.01663384			
<i>a</i>	2.5662924	Ω	95.28948	+0.07856452	+0.92827854			
<i>e</i>	0.1332021	<i>i</i>	14.63781	–0.23963058	+0.37151349			
<i>P</i>	4.11	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1999 01 13	411	0.6– 0.1+	1999 01 26	411	0.2+ 0.6–	2000 04 07	699	0.3+ 0.4–
1999 01 13	411	0.0 0.8+	1999 02 06	411	0.6– 1.0–	2000 04 07	699	0.2– 0.1–
1999 01 14	411	0.5+ 0.3–	1999 02 06	411	0.3+ 1.3–	2000 04 07	699	0.2– 0.1–
1999 01 14	411	1.1+ 0.6+	1999 02 18	699	0.4+ 0.6+	2000 04 09	699	0.4+ 0.2–
1999 01 18	411	0.4– 0.1–	1999 02 18	699	0.4+ 0.5+	2000 04 09	699	0.1– 0.0
1999 01 18	411	0.2– 0.2–	1999 02 18	699	0.4– 1.1+	2000 04 09	699	0.1+ 1.0+
1999 01 26	411	0.6– 0.2–	2000 04 07	699	0.0 0.3–	2000 04 09	699	0.2– 0.1+

1999 AM₁₄ = 2000 GV₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	175.31890		(2000.0)	P	Q			
<i>n</i>	0.22664699	ω	62.38664	+0.89869736	–0.43836614			
<i>a</i>	2.6642159	Ω	323.60860	+0.39403337	+0.82042600			
<i>e</i>	0.0877806	<i>i</i>	1.28920	+0.19256366	+0.36706445			
<i>P</i>	4.35	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1999 01 08	691	1.1+ 0.6–	1999 02 10	704	1.5– 2.0–	2000 04 05	704	0.5– 0.9–
1999 01 08	691	0.6+ 0.4–	1999 02 13	704	0.9+ 1.3+	2000 04 05	704	0.3– 0.3+
1999 01 15	691	0.7– 0.1+	1999 02 13	704	0.2– 1.8+	2000 04 05	704	0.0 0.5+
1999 01 15	691	0.7– 0.2+	1999 02 13	704	0.3+ 0.4–	2000 04 06	704	0.6+ 0.4+

1999 01 15	691	0.8– 0.1–	2000 03 27	691	0.4– 0.9–	2000 04 06	704	0.3+ 0.2+
1999 02 10	704	0.1+ 0.3+	2000 03 27	691	0.6– 0.7–	2000 04 06	704	0.3– 1.0+
1999 02 10	704	1.4+ 1.6–	2000 03 27	691	0.5– 1.1–	2000 04 06	704	0.5+ 1.3+
1999 02 10	704	0.5+ 0.2+	2000 04 05	704	0.1+ 0.0	2000 04 06	704	0.7+ 0.8+
1999 02 10	704	1.1– 1.3+	2000 04 05	704	0.4+ 1.1–			

1999 AR₁₆ = 2000 GF₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	277.12481		(2000.0)	P	Q			
<i>n</i>	0.22248055	ω	120.63706	+0.39514552	+0.91860078			
<i>a</i>	2.6973751	Ω	172.63117	–0.85732375	+0.37100541			
<i>e</i>	0.0369219	<i>i</i>	2.55234	–0.32993334	+0.13611609			
<i>P</i>	4.43	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1992 07 26	809	0.3+ 0.2–	1999 01 10	691	0.4+ 0.4–	2000 04 05	704	0.7+ 0.8+
1992 07 26	809	0.1– 0.3–	1999 01 13	691	0.1– 0.2+	2000 04 07	704	0.5+ 0.4+
1992 07 26	809	0.2+ 0.5–	1999 01 13	691	0.2– 0.3+	2000 04 07	704	0.4– 0.5–
1997 10 30	704	0.8+ 0.8+	1999 01 13	691	1.0– 0.4–	2000 04 07	704	0.7+ 0.8+
1997 10 30	704	0.8– 1.6+	1999 01 18	691	0.0 0.3–	2000 04 07	704	0.1– 1.3+
1997 10 30	704	(1.8+ 2.3+)	1999 01 18	691	0.0 0.2–	2000 04 13	608	0.0 0.5–
1997 10 30	704	0.0 1.4–	1999 01 18	691	0.0 0.2–	2000 04 13	608	0.3– 0.5–
1997 10 30	704	0.3– 0.0	2000 04 05	704	0.2– 0.8–	2000 04 13	608	0.5– 0.2–
1999 01 10	691	0.1+ 0.1–	2000 04 05	704	0.2+ 0.6–			
1999 01 10	691	0.6+ 0.2+	2000 04 05	704	0.3– 0.4+			

1999 AK₂₁ = 1989 LB₁ = 2000 EZ₁₃₈

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	200.42392		(2000.0)	P	Q			
<i>n</i>	0.24121965	ω	224.60246	+0.97081417	+0.10433807			
<i>a</i>	2.5558043	Ω	128.16668	–0.05407488	+0.97244990			
<i>e</i>	0.2230586	<i>i</i>	15.94217	–0.23365736	+0.20845807			
<i>P</i>	4.09	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1989 06 05	809	0.5+ 0.3–	1999 01 17	691	0.7– 0.6+	2000 03 15	699	0.1– 1.2+
1989 06 05	809	0.5– 0.0	1999 01 17	691	0.8– 0.6+	2000 03 15	699	0.7+ 0.3+
1989 06 05	809	(1.6– 3.0+)	1999 01 17	120	0.0 0.1+	2000 03 15	699	1.6– 1.3+
1997 07 08	910	(2.8– 2.2+)	1999 01 17	120	0.0 0.3+	2000 03 29	704	0.2+ 0.3–
1997 07 08	910	(2.8– 2.6+)	1999 01 18	704	0.2+ 0.2+	2000 03 29	704	0.5– 0.1+
1997 07 08	910	(2.7– 2.2+)	1999 01 18	704	0.6– 1.0+	2000 03 29	704	0.3– 0.6–
1998 12 16	699	(2.7+ 0.1–)	1999 01 18	704	0.4+ 0.0	2000 03 29	704	0.6+ 0.2+
1998 12 16	699	0.1+ 0.2–	1999 01 18	704	0.2+ 1.2–	2000 03 29	704	0.1– 0.3+
1998 12 16	699	0.8+ 0.1+	1999 01 23	120	0.6– 0.1+	2000 04 03	704	0.5+ 0.1+
1999 01 14	120	0.2+ 0.2–	1999 01 23	120	0.0 0.1–	2000 04 03	704	0.7+ 0.5–
1999 01 14	120	0.1– 0.1–	1999 02 05	120	0.4– 0.7–	2000 04 03	704	0.8+ 0.2+
1999 01 14	120	0.1+ 0.1+	1999 02 05	120	0.1+ 0.5–	2000 04 03	704	0.4– 0.2–
1999 01 15	120	0.5+ 0.0	1999 02 05	120	0.2– 0.5–	2000 04 03	704	0.9+ 0.5–
1999 01 15	120	0.7+ 0.1+	2000 03 11	703	1.0– 0.4–	2000 04 08	704	0.3+ 0.5–
1999 01 15	120	0.4+ 0.1+	2000 03 11	703	0.1+ 0.2–	2000 04 08	704	0.4– 0.1+
1999 01 16	120	0.4+ 0.1+	2000 03 11	703	0.7+ 0.7–	2000 04 08	704	0.1+ 0.0
1999 01 16	120	0.1+ 0.2–	2000 03 11	703	0.5– 0.4–	2000 04 08	704	0.4– 0.2+
1999 01 17	691	0.6– 0.0	2000 03 15	699	0.3– 0.3+			

1999 AM₂₁ = 2000 FT₁₀

Id. P. G. Comba

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	199.30160		(2000.0)	P	Q			
<i>n</i>	0.25879693	ω	222.76911	+0.99650804	–0.07757996			
<i>a</i>	2.4387277	Ω	141.64795	+0.08349454	+0.92863137			
<i>e</i>	0.2138522	<i>i</i>	2.85187	–0.00062456	+0.36280177			
<i>P</i>	3.81	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4	

2000 APR. 18

M.P.C. 40067

Residuals in seconds of arc

1999 01 09	120	0.3+	0.2-	1999 02 09	691	0.6-	0.3-	2000 04 04	699	0.5-	0.2+
1999 01 09	120	0.1-	0.1-	1999 02 09	691	0.9-	0.3-	2000 04 05	704	0.7+	0.6+
1999 01 09	120	0.2+	0.6+	1999 02 09	691	0.8-	0.1-	2000 04 05	704	0.4+	0.1+
1999 01 14	120	0.2-	0.1-	1999 02 12	691	0.1+	0.4+	2000 04 05	704	(2.8+	0.3-)
1999 01 14	120	1.1-	0.3-	1999 02 12	691	0.2+	0.7+	2000 04 05	704	0.5+	0.7+
1999 01 15	120	0.9-	0.2+	1999 02 12	691	0.1+	0.1+	2000 04 07	704	0.0	1.2-
1999 01 15	120	1.3+	0.0	2000 03 30	684	0.5-	0.1-	2000 04 07	704	0.1+	0.6-
1999 01 17	120	0.7+	0.2+	2000 03 30	684	0.8-	0.2-	2000 04 07	704	0.8+	0.7+
1999 01 17	120	0.3+	0.4+	2000 04 02	684	0.0	0.6-	2000 04 08	704	0.3-	0.2+
1999 01 23	120	0.1-	0.2-	2000 04 02	684	0.3-	0.4-	2000 04 08	704	0.4+	1.2-
1999 01 23	120	0.3+	0.2-	2000 04 04	699	0.6-	0.2-	2000 04 08	704	0.4+	0.2+
1999 02 06	120	1.5+	0.7-	2000 04 04	699	0.5-	1.1+	2000 04 08	704	1.0+	0.5+
1999 02 06	120	0.3-	0.1-	2000 04 04	699	0.7-	0.4+				

1999 AC₂₃ = 2000 EH₁₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	262.34640		(2000.0)	<i>P</i>		<i>Q</i>
<i>n</i>	0.18077805	ω	160.40568	+0.38152622	+0.90544151	
<i>a</i>	3.0976968	Ω	131.53516	-0.87778214	+0.41797145	
<i>e</i>	0.1575207	<i>i</i>	14.39133	-0.28971756	-0.07399687	
<i>P</i>	5.45	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>
						4

Residuals in seconds of arc

1999 01 14	120	0.3+	0.1-	1999 01 20	120	0.6+	0.1-	2000 04 08	704	0.2+	0.5-
1999 01 14	120	(2.8+	1.6+)	1999 01 21	120	0.7-	0.0	2000 04 08	704	0.3+	0.1+
1999 01 14	120	0.1+	0.5+	1999 01 21	120	0.9-	0.9-	2000 04 08	704	0.0	0.1+
1999 01 16	120	0.8-	0.0	2000 03 08	608	0.3+	0.2-	2000 04 08	704	0.0	0.3+
1999 01 16	120	0.3-	0.4-	2000 03 08	608	0.1+	0.1+	2000 04 08	704	0.1-	0.5+
1999 01 17	120	0.3+	0.3+	2000 03 08	608	0.5+	0.2-	2000 04 13	704	0.0	0.3-
1999 01 17	120	1.2+	0.4+	2000 03 12	704	0.4-	0.6+	2000 04 13	704	0.4+	0.2-
1999 01 19	120	0.6+	0.2+	2000 03 12	704	0.4-	0.6-	2000 04 13	704	0.6-	0.3+
1999 01 19	120	(3.3+	0.1-)	2000 03 12	704	0.1-	0.2-	2000 04 13	704	0.1+	0.2-
1999 01 20	120	0.4-	0.0	2000 03 12	704	0.4-	0.5+				

1999 AE₂₆ = 2000 EF₁₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	314.83789		(2000.0)	<i>P</i>		<i>Q</i>
<i>n</i>	0.17128351	ω	177.56879	-0.77475583	+0.63072592	
<i>a</i>	3.2111383	Ω	41.64269	-0.58119995	-0.68304530	
<i>e</i>	0.0400248	<i>i</i>	3.79890	-0.24891772	-0.36828512	
<i>P</i>	5.75	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>
						3

Residuals in seconds of arc

1997 10 30	704	(1.0+	2.5+)	2000 02 11	704	1.0+	0.4+	2000 03 28	704	0.5-	0.0
1997 10 30	704	1.0-	1.5+	2000 02 11	704	0.3+	0.4+	2000 03 28	704	1.0-	0.0
1997 10 30	704	1.2+	0.4+	2000 03 02	703	0.4-	0.1-	2000 03 28	704	0.1-	1.2+
1997 10 30	704	0.4-	0.7-	2000 03 02	703	0.2+	1.2+	2000 04 02	699	0.9+	0.5-
1997 10 30	704	0.2+	0.9-	2000 03 02	703	0.2+	0.5+	2000 04 02	699	1.7+	0.6-
1999 01 15	595	0.2-	0.0	2000 03 02	703	0.5-	1.1-	2000 04 02	699	0.4-	0.6-
1999 01 15	595	0.3-	0.1+	2000 03 11	699	0.2-	0.0	2000 04 02	699	1.1+	0.0
1999 01 19	595	0.0	0.5+	2000 03 11	699	0.4-	0.1+	2000 04 08	704	0.8-	0.6-
1999 01 19	595	0.1-	0.4+	2000 03 11	699	0.4-	0.1+	2000 04 08	704	0.1+	0.8+
1999 01 24	595	0.4+	0.2+	2000 03 11	699	0.3-	0.4-	2000 04 08	704	0.9+	0.4+
1999 01 24	595	0.2-	0.1+	2000 03 12	704	0.1-	0.5+	2000 04 08	704	0.7-	0.2-
1999 02 06	595	0.1-	0.3-	2000 03 12	704	0.8-	0.9-	2000 04 08	704	0.3+	0.3+
1999 02 06	595	0.5+	0.9-	2000 03 12	704	0.2+	0.2-	2000 04 10	704	0.3-	0.0
1999 02 08	595	0.2+	0.2-	2000 03 12	704	0.2+	0.9-	2000 04 10	704	0.3+	0.1-
2000 02 11	704	0.9+	0.2-	2000 03 12	704	0.2-	0.7-	2000 04 10	704	0.4+	1.0+
2000 02 11	704	0.4-	0.7-	2000 03 28	704	0.7-	0.5+	2000 04 10	704	0.3-	0.5+

1999 AR₃₀ = 2000 GL₁₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	163.54057		(2000.0)	<i>P</i>		<i>Q</i>
<i>n</i>	0.18983894	ω	219.34344	+0.93184352	-0.36285017	
<i>a</i>	2.9983283	Ω	161.93133	+0.33509109	+0.85762944	
<i>e</i>	0.1205249	<i>i</i>	0.50265	+0.13921786	+0.36443311	
<i>P</i>	5.19	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>
						4

Residuals in seconds of arc

1998 12 13	691	0.1+	0.2-	2000 03 29	691	0.3+	0.4+	2000 04 06	704	0.7-	0.7-
1998 12 13	691	0.2+	0.0	2000 03 29	691	0.2+	0.2+	2000 04 06	704	1.0+	1.0-
1998 12 13	691	0.1+	0.0	2000 03 29	691	0.3+	0.1+	2000 04 06	704	(2.3+	0.4+)
1998 12 28	691	0.1-	0.2-	2000 03 29	691	0.9-	0.1-	2000 04 06	704	0.1-	0.9-
1998 12 28	691	0.1-	0.3-	2000 03 29	691	0.9-	0.2-	2000 04 06	704	0.2+	0.5+
1998 12 28	691	0.1-	0.1+	2000 03 29	691	0.8-	0.4-	2000 04 06	704	0.5+	1.1+
1999 01 14	691	0.7-	0.2+	2000 04 05	704	0.9+	1.0+	2000 04 07	691	0.2-	0.5-
1999 01 14	691	0.6-	0.0	2000 04 05	704	0.1+	0.2+	2000 04 07	691	0.2-	0.4-
1999 01 14	691	0.6-	0.1+	2000 04 05	704	0.5+	1.0+	2000 04 07	691	0.5-	0.6-
1999 01 22	691	0.6+	0.3+	2000 04 05	704	0.5+	0.8+	2000 04 11	691	0.0	0.1-
1999 01 22	691	0.7+	0.2+	2000 04 05	704	0.6+	0.9+	2000 04 11	691	0.1+	0.2-
1999 01 22	691	0.7+	0.3+	2000 04 06	704	0.0	0.1-	2000 04 11	691	0.2+	0.1-
1999 02 10	691	0.2-	0.8-	2000 04 06	704	0.4-	0.3+	2000 04 12	691	0.5-	0.4-
1999 02 10	691	0.2-	0.1+	2000 04 06	704	0.4+	0.2+	2000 04 12	691	0.6-	0.4-
1999 02 10	691	0.2-	0.1+	2000 04 06	704	0.5+	0.3-	2000 04 12	691	0.5-	0.5-

1999 AD₃₃ = 1999 BR₉ = 2000 GU₁₃₅Id. G. V. Williams (d, *MPC* 34061; unpublished)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	37.63939		(2000.0)	<i>P</i>		<i>Q</i>
<i>n</i>	0.19138128	ω	39.63302	-0.93534956	-0.31350935	
<i>a</i>	2.9821975	Ω	121.35760	+0.25582844	-0.91938440	
<i>e</i>	0.0244386	<i>i</i>	11.05943	+0.24428061	-0.23757990	
<i>P</i>	5.15	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>
						1

Residuals in seconds of arc

1994 01 12	691	0.4-	0.2-	1999 01 23	126	1.0+	0.1-	1999 02 23	699	0.1-	1.5+
1994 01 12	691	0.1-	0.4-	1999 01 23	126	0.1-	0.2+	1999 02 23	699	0.8+	0.6+
1994 01 12	691	0.3+	0.3-	1999 01 23	126	0.2+	0.5+	2000 03 08	704	0.5-	0.7-
1997 10 29	566	0.0	0.6+	1999 01 23	126	0.3-	0.0	2000 03 08	704	0.4+	0.2-
1997 10 29	566	0.3-	0.5+	1999 01 23	126	0.6-	0.2+	2000 03 08	704	1.3+	0.4+
1997 10 29	566	0.5-	0.7+	1999 02 01	126	0.2+	0.5+	2000 03 08	704	0.3+	0.7+
1998 12 16	699	0.9-	0.6+	1999 02 01	126	0.8-	0.4+	2000 03 08	704	1.1+	1.7+
1998 12 16	699	0.1-	0.4+	1999 02 01	126	0.0	0.5-	2000 04 07	699	0.5-	0.1+
1998 12 16	699	0.7+	0.9-	1999 02 06	126	0.0	0.5-	2000 04 07	699	0.3-	0.1-
1999 01 15	691	0.7-	0.2-	1999 02 06	126	0.0	0.4+	2000 04 07	699	0.5-	0.5-
1999 01 15	691	1.3-	0.2-	1999 02 06	126	0.3+	0.4-	2000 04 07	699	0.5-	0.2-
1999 01 15	691	0.6-	0.6-	1999 02 06	126	0.6+	0.4-	2000 04 08	704	1.1+	0.3-
1999 01 19	704	0.2-	0.1+	1999 02 06	126	0.1-	0.2-	2000 04 08	704	0.2-	0.1-
1999 01 19	704	0.2-	0.4+	1999 02 10	704	0.8+	0.7-	2000 04 08	704	0.1+	0.7+
1999 01 19	704	1.1+	1.3+	1999 02 10	704	0.5+	0.3+	2000 04 13	704	0.6-	0.2-
1999 01 19	691	1.1-	0.6-	1999 02 10	704	1.4+	0.8-	2000 04 13	704	0.2+	0.6+
1999 01 19	704	0.6+	1.9+	1999 02 10	704	1.4+	1.5-	2000 04 13	704	0.2-	0.0
1999 01 19	691	0.8-	0.7-	1999 02 13	704	(2.9-	1.5+)	2000 04 13	704	0.0	0.2-
1999 01 23	126	0.2-	0.5+	1999 02 13	704	1.1-	1.4-	2000 04 13	704	0.1-	0.5+
1999 01 23	126	0.1+	0.1+	1999 02 13	704	(2.0-	1.3-)				
1999 01 23	126	0.3-	0.4+	1999 02 23	699	0.1-	0.4+				

1999 BL₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	224.77299		(2000.0)	P	Q
n	0.29013344	ω	268.23020	+0.95836136	+0.26123456
a	2.2598044	Ω	76.61390	-0.19124281	+0.88707278
e	0.1736413	i	6.80821	-0.21206058	+0.38060265
P	3.40	H	13.5	G 0.15	U 3

Residuals in seconds of arc

1998 11 14	699	0.0	1.2+	1999 01 19	704	0.1+	0.1-	2000 01 08	699	0.2+	0.1-
1998 11 14	699	0.2-	1.1+	1999 01 24	106	0.0	0.1+	2000 02 08	704	0.4-	0.5+
1998 11 14	699	0.4-	0.1-	1999 01 24	106	0.2+	0.2-	2000 02 08	704	0.4-	0.1-
1998 11 15	699	0.2+	0.8+	1999 01 24	106	1.2-	0.6+	2000 02 08	704	0.1-	0.4-
1998 11 15	699	0.1+	0.2-	1999 01 25	106	0.1-	0.2+	2000 04 07	704	0.0	0.1-
1998 11 15	699	0.3-	0.7+	1999 01 25	106	0.1-	0.3-	2000 04 07	704	0.1+	0.4-
1998 12 17	704	0.2+	0.5-	1999 01 25	106	0.2-	0.5-	2000 04 07	704	0.6+	0.1+
1998 12 17	704	0.5+	0.1-	1999 02 06	106	0.2-	0.3-	2000 04 07	704	1.2+	0.7+
1998 12 17	704	1.6+	1.8-	1999 02 06	106	0.1-	0.0	2000 04 07	704	0.9+	0.1+
1998 12 17	704	0.4-	0.6-	1999 02 06	106	0.4-	0.0	2000 04 08	704	0.3-	0.1+
1998 12 17	704	0.3+	0.1-	1999 02 07	716	0.3+	0.0	2000 04 08	704	0.7-	0.1+
1999 01 16	704	0.4-	0.1+	1999 02 07	716	0.2+	0.0	2000 04 08	704	1.0-	0.2-
1999 01 16	704	0.4-	0.1-	1999 02 08	716	0.2+	0.1+	2000 04 13	704	0.1-	0.3+
1999 01 16	704	1.0+	1.2+	1999 02 08	716	0.2+	0.2+	2000 04 13	704	0.2+	0.4-
1999 01 16	704	0.2+	0.5+	1999 02 08	106	0.4+	0.1+	2000 04 13	704	0.5-	0.7+
1999 01 16	704	1.5-	0.2+	1999 02 08	106	0.2-	0.3+	2000 04 13	704	0.2+	0.7-
1999 01 19	704	0.4-	0.7-	1999 02 08	106	0.0	0.0	2000 04 13	704	0.5-	0.3-
1999 01 19	704	0.4+	1.3-	2000 01 08	699	0.3+	1.0+				
1999 01 19	704	0.2+	0.2-	2000 01 08	699	0.9+	0.0				

1999 BQ₁₂ = 1988 PA₃ = 2000 GM₁₂₇

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.07875		(2000.0)	P	Q		
<i>n</i>	0.23977608	ω	238.38884	+0.90187325	+0.33532314		
<i>a</i>	2.5660521	Ω	100.78645	-0.23798203	+0.91182504		
<i>e</i>	0.1637260	<i>i</i>	16.09701	-0.36054014	+0.23692506		
<i>P</i>	4.11	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1988 08 04	413	0.7-	1.6-	1999 02 10	704	0.4-	0.4+	2000 02 06	704	0.5+	0.0
1988 08 04	413	0.4-	0.6-	1999 02 10	704	0.2-	1.0+	2000 02 06	704	0.4+	0.1-
1998 12 21	704	0.5+	0.3-	1999 02 10	704	0.7-	1.1+	2000 02 06	704	0.3+	0.2+
1998 12 21	704	1.4-	0.7-	1999 02 10	704	1.1-	1.1+	2000 02 06	704	0.2-	0.2-
1998 12 21	704	1.0-	1.4-	1999 02 13	704	0.4+	0.3-	2000 02 06	704	0.5+	0.3+
1998 12 21	704	(2.1-	2.1-)	1999 02 13	704	0.6+	0.8-	2000 03 12	703	0.0	0.2+
1998 12 21	704	(2.1-	1.1+)	1999 02 13	704	0.0	0.1+	2000 03 12	703	0.4+	0.7-
1999 01 19	704	0.8+	0.6-	1999 02 13	704	1.0+	1.0-	2000 03 12	703	0.3-	0.1-
1999 01 19	704	1.2+	0.6-	1999 02 13	704	0.1+	1.0-	2000 03 12	703	0.6+	0.4-
1999 01 19	704	1.3-	0.5-	1999 02 18	699	0.6+	0.5+	2000 04 08	704	0.2-	0.1-
1999 01 19	704	0.4+	0.3+	1999 02 18	699	0.5+	0.5+	2000 04 08	704	0.0	0.1-
1999 01 19	704	0.9+	0.9+	1999 02 18	699	0.8+	0.4+	2000 04 08	704	0.1+	0.3-
1999 01 24	106	0.4-	0.1-	1999 02 19	566	0.3+	0.4+	2000 04 12	704	0.4-	0.2+
1999 01 24	106	1.0-	0.3-	1999 02 19	566	0.4+	0.4+	2000 04 12	704	0.2+	0.3+
1999 01 24	106	1.9-	0.7-	1999 02 19	566	0.0	0.4+	2000 04 12	704	0.1-	0.2-
1999 01 25	106	0.1+	0.2-	1999 03 13	106	0.4-	0.5-	2000 04 12	704	0.2+	0.2+
1999 01 25	106	0.1+	0.1+	1999 03 13	106	0.2+	0.8-	2000 04 12	704	0.1+	0.2+
1999 01 25	106	0.4+	0.3-	1999 05 08	704	0.5-	0.0	2000 04 14	704	0.2-	0.2+
1999 02 06	106	0.1-	0.4-	1999 05 08	704	0.5+	1.5+	2000 04 14	704	0.1-	0.5+
1999 02 06	106	0.3-	0.1-	1999 05 08	704	0.9-	0.8+	2000 04 14	704	0.5-	0.0
1999 02 06	106	0.7+	0.3+	1999 05 08	704	1.0+	1.1-	2000 04 14	704	0.1+	0.3+
1999 02 10	704	0.3-	0.4+	1999 05 08	704	(3.4-	0.7-)	2000 04 14	704	0.6-	0.2+

1999 BH₁₃ = 2000 GV₁₀₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	61.57135		(2000.0)	P	Q		
<i>n</i>	0.12447294	ω	323.27214	-0.54637145	-0.83711418		
<i>a</i>	3.9727028	Ω	159.80369	+0.78571339	-0.52337836		
<i>e</i>	0.0835724	<i>i</i>	4.45172	+0.29005639	-0.15910667		
<i>P</i>	7.92	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 13	699	0.2+	0.1-	1999 02 12	704	0.6+	0.7+	2000 04 07	704	0.3+	0.1+
1999 01 13	699	0.3-	0.3+	1999 02 12	704	(2.6+	0.4+)	2000 04 07	704	0.4+	0.0
1999 01 13	699	0.4+	0.2-	1999 02 16	704	0.4+	0.0	2000 04 07	704	0.4+	0.6-

1999 01 24	120	0.5+	0.0	1999 02 16	704	1.0-	0.3-	2000 04 07	704	0.3+	0.3+
1999 01 25	120	0.5-	0.1+	1999 02 16	704	0.7-	0.3+	2000 04 07	704	0.2+	0.8-
1999 01 25	120	0.4-	0.7-	1999 02 16	704	1.1-	1.3-	2000 04 08	704	0.4+	0.3-
1999 01 25	120	0.0	0.1+	1999 02 16	704	0.8-	0.2+	2000 04 08	704	0.0	0.7-
1999 01 27	120	1.1+	0.2+	2000 03 14	703	(4.4-	0.9-)	2000 04 08	704	0.9+	0.2+
1999 01 27	120	1.2+	0.1+	2000 03 14	703	0.2-	1.3-	2000 04 08	704	0.3+	0.3-
1999 01 28	120	0.7-	0.3+	2000 03 14	703	0.2+	0.9+	2000 04 10	704	0.3+	0.3-
1999 02 12	699	0.3+	0.2+	2000 03 14	703	2.0-	0.5-	2000 04 10	704	0.2-	0.7+
1999 02 12	699	0.7+	0.2+	2000 03 29	704	0.2-	0.2-	2000 04 10	704	0.2-	0.0
1999 02 12	699	0.6+	0.7+	2000 03 29	704	0.2-	0.0	2000 04 10	704	0.0	0.5+
1999 02 12	704	0.6+	0.6-	2000 03 29	704	0.1-	0.2+	2000 04 10	704	0.5-	1.0+
1999 02 12	704	0.3+	0.0	2000 03 29	704	0.1+	0.3+				
1999 02 12	704	1.3-	0.3-	2000 03 29	704	0.3-	0.6+				

1999 BN₁₄ = 2000 GU₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	35.03609		(2000.0)	P	Q		
<i>n</i>	0.17998626	ω	109.62332	-0.94946441	-0.31266734		
<i>a</i>	3.1067751	Ω	52.16634	+0.27334987	-0.86676386		
<i>e</i>	0.1188357	<i>i</i>	1.99568	+0.15426334	-0.38853512		
<i>P</i>	5.48	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 03 06	691	0.5-	0.5-	1999 01 26	757	1.0-	0.5+	2000 04 05	704	0.1+	0.4+
1994 03 06	691	0.5-	0.4-	1999 01 26	757	0.7-	0.1-	2000 04 05	691	0.2-	0.3+
1994 03 06	691	0.4+	0.5-	1999 01 27	757	0.7-	0.8+	2000 04 05	704	0.3+	0.9+
1996 07 14	809	0.6+	0.4-	1999 01 27	757	0.8+	0.0	2000 04 05	704	0.3-	0.6+
1996 07 14	809	0.3+	0.1-	1999 02 05	757	0.1+	0.4+	2000 04 06	704	0.7+	0.3-
1996 07 14	809	0.5+	0.0	1999 02 05	757	0.5-	0.2+	2000 04 06	704	0.1+	1.2-
1996 08 10	566	0.1-	0.1+	1999 02 15	757	0.1-	0.4-	2000 04 06	704	0.0	0.9-
1996 08 10	566	0.5-	0.2-	1999 02 15	757	0.2+	0.2-	2000 04 06	704	0.2-	0.3-
1996 08 10	566	0.2-	0.4-	1999 02 22	757	0.4-	1.2+	2000 04 06	704	1.2-	1.1-
1998 11 14	699	0.9+	0.9-	1999 02 22	757	1.5+	0.5+	2000 04 07	704	0.7+	0.7+
1998 11 14	699	0.9+	0.2+	1999 03 16	757	(4.6+	3.7+)	2000 04 07	704	1.4-	0.7+
1998 11 14	699	0.5-	0.9-	1999 03 16	757	1.8+	0.9-	2000 04 07	704	1.1+	0.2-
1999 01 19	704	0.2+	0.7+	2000 03 01	703	0.5-	0.2+	2000 04 07	704	0.0	0.3-
1999 01 19	704	0.6-	0.3+	2000 03 01	703	0.8-	0.4-	2000 04 08	704	0.2+	0.1-
1999 01 19	704	0.2-	1.1-	2000 03 01	703	0.7-	0.2+	2000 04 08	704	1.1+	0.5-
1999 01 19	704	0.5+	0.3+	2000 03 01	703	0.1-	0.5-	2000 04 08	704	0.2-	0.8+
1999 01 19	704	0.6+	0.2+	2000 04 05	691	0.1-	0.2+	2000 04 08	704	0.6+	1.0+
1999 01 25	757	0.5-	0.7-	2000 04 05	704	0.0	0.2+	2000 04 08	704	0.8+	0.6-
1999 01 25	757	1.3-	0.3-	2000 04 05	691	0.2-	0.3+				

1999 BE₂₀ = 2000 EU₂₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	124.54767		(2000.0)	P	Q		
<i>n</i>	0.18420998	ω	41.95695	+0.71060005	-0.70354150		
<i>a</i>	3.0591020	Ω	2.80246	+0.58838197	+0.58735724		
<i>e</i>	0.1434477	<i>i</i>	10.33419	+0.38581632	+0.40005103		
<i>P</i>	5.35	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 17	704	0.4+	0.2+	2000 03 06	608	0.3-	0.5-	2000 03 11	704	1.1+	0.6+
1998 12 17	704	0.1+	0.2-	2000 03 06	608	0.7-	0.4-	2000 03 11	704	1.0+	0.5+
1998 12 17	704	0.1-	0.5-	2000 03 08	704	0.1+	1.0+	2000 03 11	704	0.6+	0.4+
1998 12 17	704	0.0	1.6+	2000 03 08	691	0.4+	0.5-	2000 03 11	704	0.8+	0.3-
1998 12 17	704	0.2-	0.8+	2000 03 08	704	0.3	0.2+	2000 03 11	704	0.5-	0.1-
1999 01 09	699	0.7+	0.0	2000 03 08	704	0.6-	1.2+	2000 04 05	704	0.2+	0.7+
1999 01 09	699	0.4+	0.5-	2000 03 08	691	0.4-	0.6-	2000 04 05	704	0.4+	0.4+
1999 01 09	699	0.0	0.7-	2000 03 08	704	0.7-	1.8+	2000 04 05	704	0.2-	0.5+
1999 01 16	704	0.2-	0.5-	2000 03 08	691	0.3-	0.5-	2000 04 05	704	0.2-	0.0
1999 01 16	704	0.1+	0.1-	2000 03 08	704	0.6-	0.6+	2000 04 05	704	0.4+	0.5+
1999 01 16	704	1.6-	0.1-	2000 03 09	691	0.5-	0.5-	2000 04 06	704	0.5+	0.3+
1999 01 16	704	0.3-	0.4+	2000 03 09	691	0.5-	0.4-	2000 04 06	704	0.1+	0.6+
1999 01 19	704	0.4-	0.9+	2000 03 09	691	0.5-	0.4-	2000 04 06	704	0.5+	0.1+

2000 APR. 18

M.P.C. 40069

1999 01 19	704	0.2+	0.7−	2000 03 10	704	0.7+	0.4+	2000 04 06	704	0.1−	0.5−
1999 01 19	704	0.2−	0.2−	2000 03 10	704	0.3−	0.4−	2000 04 11	608	0.6−	0.8−
1999 01 19	704	0.2−	1.0−	2000 03 10	704	1.0+	0.4−	2000 04 11	608	0.7−	1.1−
1999 01 19	704	1.4+	0.4+	2000 03 10	704	0.5+	0.5+	2000 04 11	608	0.6−	0.9−
2000 03 06	608	0.8−	0.4−	2000 03 10	704	1.2+	1.4−				

1999 BZ₂₀ = 2000 FX₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	198.79365		(2000.0)	P	Q
n	0.22528766	ω	238.55931	+0.95271552	+0.23829078
a	2.6749219	Ω	107.07638	−0.16519068	+0.92696442
e	0.1943133	i	11.37587	−0.25503954	+0.28974898
P	4.37	H	13.5	G 0.15	U 4

Residuals in seconds of arc

1998 11 25	699	0.2+	0.0	1999 01 19	704	0.6−	0.4+	2000 04 03	704	1.1+	0.6−
1998 11 25	699	0.4+	0.5−	1999 01 19	704	(2.3−	1.3+)	2000 04 03	704	0.0	0.8+
1998 11 25	699	0.4+	0.6+	2000 03 12	704	0.2−	0.3−	2000 04 03	704	0.2−	0.5−
1998 11 26	691	0.9−	0.3+	2000 03 12	704	0.3+	0.3−	2000 04 08	704	0.9+	0.3−
1998 11 26	691	0.3−	0.3−	2000 03 12	704	0.3+	0.3−	2000 04 08	704	0.6−	0.4−
1998 11 26	691	0.7−	0.4−	2000 03 12	704	0.1+	0.6−	2000 04 08	704	0.2−	0.9+
1999 01 16	704	0.6+	0.1+	2000 03 29	704	0.4−	0.4−	2000 04 08	704	0.1+	0.4−
1999 01 16	704	0.5+	1.0−	2000 03 29	704	0.1+	0.0	2000 04 08	704	0.2+	0.3−
1999 01 16	704	0.9−	0.7+	2000 03 29	704	0.7−	0.5+	2000 04 13	704	0.8−	0.2+
1999 01 16	704	1.4+	1.6−	2000 03 29	704	0.1+	0.4+	2000 04 13	704	0.3−	1.6+
1999 01 19	704	0.3+	0.2+	2000 03 29	704	0.4−	1.0+	2000 04 13	704	0.2+	0.2−
1999 01 19	704	0.7−	0.3+	2000 04 03	704	0.3+	0.6−	2000 04 13	704	0.1−	0.3+
1999 01 19	704	0.2+	1.3+	2000 04 03	704	0.1−	0.6−				

1999 CB = 2000 GO₁₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	92.57917		(2000.0)	P	Q
n	0.17292914	ω	358.89965	−0.24700977	−0.94722115
a	3.1907339	Ω	105.37612	+0.89066310	−0.30500301
e	0.1525611	i	12.23573	+0.38171378	+0.09871806
P	5.70	H	13.0	G 0.15	U 4

Residuals in seconds of arc

1999 02 04	411	0.7−	0.2−	1999 02 13	704	0.8+	0.1−	2000 04 04	704	0.4−	0.5−
1999 02 04	411	0.5−	0.1+	1999 02 13	704	1.3+	0.1+	2000 04 04	704	0.7−	0.2−
1999 02 05	411	0.4+	0.8−	1999 02 13	704	0.2+	0.6+	2000 04 04	704	0.1−	0.1−
1999 02 05	411	0.0	0.2−	1999 02 13	704	0.5+	0.4+	2000 04 12	704	0.4−	0.6−
1999 02 10	704	0.7+	0.5+	1999 02 13	704	0.8+	0.3+	2000 04 12	704	0.3−	0.7+
1999 02 10	704	0.4−	0.8+	1999 02 20	699	0.2+	0.2−	2000 04 12	704	0.4−	0.1−
1999 02 10	704	0.1+	0.1−	1999 02 20	699	0.6+	0.9+	2000 04 13	704	0.3+	0.3−
1999 02 10	704	0.4−	0.1−	1999 02 20	699	0.2−	0.4+	2000 04 13	704	0.1+	0.5+
1999 02 10	704	0.3−	0.4−	1999 02 20	411	1.4−	0.9−	2000 04 13	704	0.6+	0.7+
1999 02 12	411	0.0	0.6−	1999 02 20	411	0.5−	0.9−	2000 04 13	704	0.5+	0.3+
1999 02 12	411	1.1−	0.2+	2000 04 04	704	0.5+	0.4−				

1999 CX₄ = 2000 GA₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	212.35866		(2000.0)	P	Q		
n	0.19924640	ω	329.60216	+0.98805912	+0.15350400		
a	2.9031918	Ω	21.57975	−0.13311376	+0.89379439		
e	0.0784415	i	2.06536	−0.07758804	+0.42138831		
P	4.95	H	14.0	G	0.15	U	4

Residuals in seconds of arc

1997 10 29	704	1.1−	0.7−	1997 11 06	704	0.8−	1.9+	2000 04 04	699	0.7+	0.8+
1997 10 29	704	0.2+	0.8−	1997 12 05	691	0.7+	0.0	2000 04 04	699	0.1−	0.7+
1997 10 29	704	1.0−	0.1−	1997 12 05	691	0.6+	0.1+	2000 04 05	704	0.5+	0.3+
1997 10 29	704	1.6−	1.7+	1997 12 05	691	1.0+	0.1+	2000 04 05	704	0.2−	0.7+
1997 10 29	704	0.8−	1.2+	1999 02 08	159	0.7−	0.6−	2000 04 05	704	0.4+	0.2+
1997 10 29	566	0.9+	0.2−	1999 02 08	159	0.8−	0.1−	2000 04 05	704	0.2+	0.6+

1997 10 29	566	0.8+	0.4−	1999 02 08	159	0.0	0.0	2000 04 05	704	0.4+	0.9+
1997 10 29	566	1.1+	0.2−	1999 02 08	159	0.6−	0.3−	2000 04 06	704	0.1+	0.5+
1997 10 31	704	0.3−	1.3+	1999 02 12	159	0.7+	1.2−	2000 04 06	704	0.0	0.9+
1997 10 31	704	0.7−	0.3+	1999 02 12	159	0.8+	0.5−	2000 04 06	704	0.4+	0.4+
1997 10 31	704	1.5−	0.4−	1999 02 12	159	1.2+	1.0−	2000 04 06	704	0.1+	0.5+
1997 10 31	704	0.1+	1.3+	1999 02 23	159	0.1−	0.6−	2000 04 06	704	0.6+	1.2+
1997 10 31	704	0.6+	0.4+	1999 02 23	159	0.3−	0.5+	2000 04 08	691	0.0	0.2−
1997 11 06	704	1.1−	1.3+	1999 02 23	159	0.1−	0.0	2000 04 08	691	0.0	0.2−
1997 11 06	704	0.1+	1.1+	1999 02 23	159	0.9−	1.3+	2000 04 08	691	0.0	0.0
1997 11 06	704	(0.5+	2.9+)	2000 04 04	699	0.4+	0.7+				
1997 11 06	704	(3.0−	2.6+)	2000 04 04	699	0.2+	0.6+				

1999 CY₄

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	218.70834		(2000.0)	P	Q
n	0.26737087	ω	243.87576	+0.97556489	+0.14334789
a	2.3863089	Ω	107.50903	−0.07888808	+0.93584323
e	0.1407633	i	10.05515	−0.20506053	+0.32194539
P	3.69	H	13.5	G 0.15	U 6

Residuals in seconds of arc

1999 02 10	143	1.5+	0.8+	1999 03 13	143	(3.4−	3.7−)	2000 04 07	699	0.3−	0.1+
1999 02 10	143	0.7−	1.3+	1999 03 13	143	0.5−	0.2−	2000 04 07	699	0.1−	0.3+
1999 02 12	143	1.7−	1.4+	1999 03 13	143	(2.7−	0.1−)	2000 04 09	699	0.3+	0.1−
1999 02 12	143	1.0+	0.2+	1999 03 15	143	0.7+	1.2−	2000 04 09	699	0.2+	0.3−
1999 02 12	143	0.7−	0.0	1999 03 15	143	0.0	0.8−	2000 04 09	699	0.1+	0.3+
1999 02 19	566	0.2−	0.5−	1999 03 15	143	0.6+	0.1+	2000 04 09	699	0.1+	0.2+
1999 02 19	566	0.3−	0.5−	2000 04 07	699	0.2−	0.1−				
1999 02 19	566	0.4+	0.9−	2000 04 07	699	0.0	0.2−				

1999 CL₁₂ = 2000 GQ₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	217.21889		(2000.0)	P	Q
n	0.17671785	ω	204.23179	+0.98386367	+0.09538873
a	3.1449646	Ω	149.09584	−0.07283874	+0.98628721
e	0.0927017	i	17.14099	−0.16342216	+0.13467936
P	5.58	H	12.9	G 0.15	U 4

Residuals in seconds of arc

1999 02 09	691	0.7−	0.3+	1999 02 23	699	0.5+	1.1+	2000 04 05	704	0.2−	1.2−
1999 02 09	691	0.6−	0.1+	1999 02 23	699	0.9+	1.0+	2000 04 05	704	1.1+	0.0
1999 02 09	691	0.5−	0.1+	1999 02 23	699	0.1+	0.1−	2000 04 07	699	0.7−	0.8+
1999 02 12	699	0.2+	0.3+	1999 03 10	691	0.3−	0.7−	2000 04 07	699	0.0	0.7+
1999 02 12	699	0.4−	0.4+	1999 03 10	691	0.1−	0.6−	2000 04 07	699	0.2−	0.2+
1999 02 12	699	1.4+	0.5+	1999 03 10	691	0.0	0.8−	2000 04 07	699	0.1−	0.6+
1999 02 14	470	0.9−	0.9−	1999 03 23	470	0.2+	0.8+	2000 04 08	704	0.1+	0.8−
1999 02 14	470	0.1−	1.0−	1999 03 23	470	1.4+	0.9+	2000 04 08	704	0.5+	0.7+
1999 02 14	470	1.3−	1.4−	2000 03 29	049	0.5+	1.2−	2000 04 08	704	0.2+	1.5+
1999 02 14	470	0.4−	0.5−	2000 03 29	049	0.9+	0.8−	2000 04 14	704	0.3−	0.7+
1999 02 16	470	(4.3+	6.4+)	2000 03 29	049	0.1+	0.8−	2000 04 14	704	0.3−	0.7+
1999 02 16	470	(1.6+	6.1+)	2000 04 05	704	0.9+	0.8−	2000 04 14	704	0.4−	0.3+
1999 02 19	470	0.4+	0.2+	2000 04 05	704	0.1−	1.3−	2000 04 14	704	0.5−	0.1+
1999 02 19	470	0.3+	0.3+	2000 04 05	704	0.3−	0.3−	2000 04 14	704	1.0−	0.7+

1999 CO₁₆ = 2000 GX₁₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	264.68230		(2000.0)	P	Q
n	0.19454813	ω	280.65494	+0.61970830	+0.78463400
a	2.9497463	Ω	27.66395	−0.70440333	+0.56597097
e	0.0257457	i	2.17718	−0.34608896	+0.25303428
P	5.07	H	13.7	G 0.15	U 1

Residuals in seconds of arc

1992 11 25	691	0.1+	0.2+	1997 12 15	327	0.9-	1.1+	1999 02 15	120	0.2+	0.3+
1992 11 25	691	0.1-	0.3+	1999 01 13	699	0.0	1.1-	1999 02 15	120	0.2-	0.2+
1992 11 25	691	0.1+	0.1-	1999 01 13	699	0.8-	0.6+	1999 02 15	120	0.8+	1.3+
1996 08 16	566	0.4+	0.4-	1999 01 13	699	0.4+	0.8-	1999 02 18	120	0.5+	0.4+
1996 08 16	566	0.2+	0.7-	1999 01 19	704	0.3-	0.4-	1999 02 18	120	0.6-	0.1+
1996 08 16	566	0.4+	0.9-	1999 01 19	704	0.2-	0.6-	1999 02 19	566	0.4-	0.2-
1996 09 08	809	0.7+	0.2-	1999 01 19	704	0.3-	0.8-	1999 02 19	566	0.1-	0.1-
1996 09 08	809	0.3+	0.4+	1999 01 19	704	0.5-	0.9-	1999 02 19	566	0.0	0.1+
1996 09 08	809	1.5-	0.6-	1999 01 19	704	0.9-	1.1-	2000 04 06	704	0.4-	0.3+
1997 11 29	704	0.6-	0.9-	1999 02 10	704	0.1+	0.0	2000 04 06	704	0.3-	0.3+
1997 11 29	704	(2.5+	0.7+)	1999 02 10	704	0.2+	0.2-	2000 04 06	704	0.8+	0.1-
1997 11 29	704	0.2+	0.6-	1999 02 10	704	0.4-	0.1-	2000 04 06	704	0.1+	0.1-
1997 11 29	704	1.5+	1.2-	1999 02 10	704	0.2-	0.1+	2000 04 06	704	1.3+	0.1-
1997 12 04	704	1.5-	0.8+	1999 02 10	704	0.9-	0.3-	2000 04 11	428	0.9-	1.2+
1997 12 04	704	0.2+	0.8+	1999 02 13	704	0.5+	0.8+	2000 04 11	428	0.1-	0.3+
1997 12 04	704	0.9+	1.1+	1999 02 13	704	0.3+	0.6-	2000 04 13	428	0.9+	0.3-
1997 12 04	704	0.9+	0.8+	1999 02 13	704	0.8+	1.3+	2000 04 13	428	0.5-	0.4+
1997 12 15	327	0.2-	0.5+	1999 02 13	704	0.0	0.5-				
1997 12 15	327	1.3-	0.1-	1999 02 13	704	0.2+	0.8-				

1999 CB₁₇ = 2000 FV₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22540140	ω	221.34490	+0.87955335	+0.41689539				
<i>a</i>	2.6740220	Ω	112.63907	-0.34445747	+0.89039755				
<i>e</i>	0.1898630	<i>i</i>	14.38619	-0.32823004	+0.18273051				
<i>P</i>	4.37	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1998 11 17	699	(2.3-	1.3+)	1999 02 10	704	0.1+	0.1-	2000 03 05	704	0.3-	0.9-
1998 11 17	699	1.9-	1.7+	1999 02 10	704	0.8+	0.8+	2000 03 29	704	0.3+	0.3+
1998 11 17	699	0.5-	0.5+	1999 02 10	704	0.2+	0.2-	2000 03 29	704	0.1+	0.2+
1998 11 25	699	0.5+	0.7+	1999 02 10	704	0.7-	0.2-	2000 03 29	704	0.2-	0.1+
1998 11 25	699	0.4-	0.7+	1999 02 10	704	1.3+	1.2-	2000 03 29	704	0.1+	0.1-
1998 11 25	699	0.0	0.5-	1999 02 13	704	0.4-	0.0	2000 03 29	704	0.4+	0.2+
1998 12 16	699	0.9+	0.2+	1999 02 13	704	1.2+	1.2+	2000 04 04	704	0.6-	0.1-
1998 12 16	699	0.4+	0.3+	1999 02 13	704	0.6-	0.6+	2000 04 04	704	0.3-	0.1+
1998 12 16	699	1.1+	0.3-	1999 02 13	704	(1.7+	3.0+)	2000 04 04	704	0.3-	0.1-
1998 12 21	704	0.6-	1.8-	1999 02 13	704	0.6+	0.5+	2000 04 04	704	0.2-	0.0
1998 12 21	704	0.3+	1.1-	2000 01 10	704	0.7+	0.2-	2000 04 04	704	0.2-	0.1+
1998 12 21	704	0.3-	0.2-	2000 01 10	704	0.1+	0.1-	2000 04 08	704	0.1-	1.0+
1998 12 21	704	1.7-	0.3-	2000 01 10	704	1.0+	0.3-	2000 04 08	704	0.1-	0.7+
1998 12 21	704	(2.4-	1.1+)	2000 01 10	704	1.0-	1.6-	2000 04 08	704	0.0	0.5+
1998 12 26	691	0.8-	0.1-	2000 02 04	704	0.3-	0.9-	2000 04 08	704	0.3-	0.5+
1998 12 26	691	1.0-	0.3-	2000 02 04	704	1.3+	0.2-	2000 04 08	704	0.3-	0.5-
1998 12 26	691	0.9-	0.3-	2000 02 04	704	0.1-	0.8+	2000 04 09	608	0.3-	0.1-
1999 01 06	699	1.0+	0.1-	2000 02 04	704	0.6+	0.6-	2000 04 09	608	0.5-	0.0
1999 01 06	699	1.0+	0.3+	2000 03 05	704	1.3+	0.1-	2000 04 09	608	0.1-	0.1+
1999 01 06	699	0.2-	0.3+	2000 03 05	704	0.3-	0.5+				

1999 CV₁₇ = 2000 GB₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17420873	ω	101.49169	-0.26198725	-0.96507048				
<i>a</i>	3.1750905	Ω	3.69706	+0.87751036	-0.23876946				
<i>e</i>	0.1475649	<i>i</i>	1.13849	+0.40166934	-0.10783370				
<i>P</i>	5.66	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 12 16	699	0.6+	0.1-	1999 02 13	704	0.8+	0.4+	2000 04 06	704	0.1+	0.3+
1998 12 16	699	0.5+	1.1+	1999 02 13	704	0.3+	0.7-	2000 04 06	704	0.4-	0.6+
1998 12 16	699	0.3+	0.5-	1999 02 13	704	0.6-	1.5+	2000 04 06	704	0.1+	0.2+
1999 01 15	691	0.4-	0.0	1999 02 23	699	0.3-	0.2-	2000 04 06	704	0.2+	0.3+
1999 01 15	691	0.8-	0.4-	1999 02 23	699	0.6+	0.2+	2000 04 06	704	0.8+	0.1-
1999 01 15	691	0.7-	0.0	1999 02 23	699	0.7+	0.7+	2000 04 07	704	0.2+	0.3-

1999 02 10	704	0.1+	0.1-	2000 04 05	704	0.2+	0.2+	2000 04 07	704	0.5-	0.2+
1999 02 10	704	0.4-	0.0	2000 04 05	704	0.5-	0.2-	2000 04 07	704	0.6+	0.2-
1999 02 10	704	0.2+	0.1+	2000 04 05	704	0.1-	0.0	2000 04 07	704	0.6+	0.3-
1999 02 10	704	0.0	0.6-	2000 04 05	704	0.6-	0.1-	2000 04 07	704	(2.2-	0.5-)
1999 02 10	704	0.6-	1.2-	2000 04 05	704	0.8-	0.5-				

1999 CD₁₈ = 2000 GU₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.17035036	ω	98.70560	-0.64670692	-0.75587052				
<i>a</i>	3.2228544	Ω	32.32313	+0.60292090	-0.58860952				
<i>e</i>	0.1192956	<i>i</i>	11.01121	+0.46717936	-0.28670297				
<i>P</i>	5.79	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1997 11 03	704	0.8+	0.8+	1999 02 10	704	0.7-	1.2-	1999 05 17	703	0.5+	0.8+
1997 11 03	704	0.7+	1.0-	1999 02 13	704	0.4+	1.5-	2000 02 10	704	0.5+	1.0+
1997 11 03	704	0.2-	0.5-	1999 02 13	704	1.0+	0.4+	2000 02 10	704	0.4-	0.9+
1997 11 03	704	0.9-	0.1-	1999 02 13	704	0.1+	0.1-	2000 02 10	704	0.9+	0.4+
1997 11 03	704	(3.1-	0.3-)	1999 02 13	704	0.3-	1.3-	2000 04 05	704	0.0	0.1+
1998 10 02	699	0.9-	0.2-	1999 02 13	704	1.5-	0.8-	2000 04 05	704	0.2-	0.3-
1998 10 02	699	0.0	0.6+	1999 02 18	699	0.3-	1.6+	2000 04 05	704	0.0	0.4-
1998 10 02	699	0.0	0.6+	1999 02 18	699	0.6+	0.0	2000 04 05	704	0.3-	0.8-
1998 12 17	699	0.1+	0.8+	1999 02 18	699	0.0	0.3+	2000 04 05	704	0.5-	0.6-
1998 12 17	699	0.5+	1.1+	1999 04 06	704	0.8+	0.6+	2000 04 06	704	0.2+	0.2+
1998 12 17	699	1.3+	0.8+	1999 04 06	704	1.7+	0.3+	2000 04 06	704	0.3-	0.2+
1998 12 21	704	1.3+	0.2-	1999 04 06	704	1.0+	0.1+	2000 04 06	704	0.4-	0.2-
1998 12 21	704	0.3-	1.6-	1999 04 06	704	1.2+	0.0	2000 04 06	704	0.6-	0.0
1998 12 21	704	1.8-	0.9-	1999 05 08	704	1.0-	0.6+	2000 04 06	704	0.8-	0.6-
1998 12 21	704	0.6-	0.1-	1999 05 08	704	1.2-	1.6+	2000 04 07	704	0.2+	0.1-
1998 12 21	704	(0.4-	3.1+)	1999 05 08	704	1.5-	0.4-	2000 04 07	704	0.1-	0.1+
1999 02 10	704	0.5-	0.2-	1999 05 08	704	(3.5-	0.9+)	2000 04 07	704	0.6+	0.3-
1999 02 10	704	0.0	0.4-	1999 05 17	703	0.2+	0.5+	2000 04 07	704	0.3+	0.5-
1999 02 10	704	0.2-	0.3-	1999 05 17	703	0.1-	0.6+	2000 04 07	704	0.4+	0.1-
1999 02 10	704	0.4-	0.7-	1999 05 17	703	0.9+	0.6+				

1999 CJ₁₈ = 2000 GF₉₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.19090320	ω	346.53829	+0.47328078	-0.86068726				
<i>a</i>	2.9871744	Ω	74.93506	+0.82515144	+0.35855045				
<i>e</i>	0.0863743	<i>i</i>	11.20716	+0.30843217	+0.36146787				
<i>P</i>	5.16	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1997 12 25	566	1.1+	1.5-	1999 02 18	699	0.2-	0.4+	2000 04 07	699	0.2+	0.1-
1997 12 25	566	(0.6+	2.1-)	1999 02 19	566	0.1-	0.1-	2000 04 07	699	0.4+	0.3-
1997 12 25	566	0.7+	1.7-	1999 02 19	566	0.3-	0.2-	2000 04 07	699	0.3+	0.3+
1999 01 19	704	0.2+	0.5+	1999 02 19	566	0.2-	0.2-	2000 04 08	704	0.5-	0.0
1999 01 19	704	0.5-	0.9-	1999 05 08	704	0.5+	0.8-	2000 04 08	704	0.2-	0.2-
1999 01 19	704	0.3+	0.3-	1999 05 08	704	1.7-	1.7-	2000 04 08	704	0.0	0.4+
1999 01 19	704	1.3+	0.4+	1999 05 08	704	0.6-	1.9-	2000 04 09	699	0.4+	0.1+
1999 01 19	704	0.3-	0.0	1999 05 08	704	(4.7-	0.6-)	2000 04 09	699	0.3+	0.2-
1999 02 10	704	1.2+	0.4+	2000 02 08	704	0.3-	0.8+	2000 04 09	699	0.4+	0.6-
1999 02 10	704	0.8+	0.4+	2000 02 08	704	0.2+	0.1+	2000 04 09	699	0.3+	0.2-
1999 02 10	704	0.8+	0.3+	2000 02 08	704	0.1+	0.3-	2000 04 12	704	1.7-	0.9+
1999 02 10	704	1.2+	0.3+	2000 03 08	704	1.0+	0.2-	2000 04 12	704	1.3+	0.1+
1999 02 10	704	0.5+	0.9-	2000 03 08	704	0.5-	0.1-	2000 04 12	704	0.2-	0.3+
1999 02 13	704	0.7-	0.3-	2000 03 08	704	0.5+	0.6-	2000 04 12	704	0.5-	0.1-
1999 02 13	704	1.2-	1.7+	2000 03 08	704	0.4-	1.4+	2000 04 12	704	1.0-	0.4-
1999 02 13	704	0.5+	0.8+	2000 04 04	704	0.4-	0.3+	2000 04 13	704	0.4+	0.5+
1999 02 13	704	1.1-	0.4+	2000 04 04	704	1.0-	0.8-	2000 04 13	704	1.0+	0.5-
1999 02 13	704	0.4-	0.2-	2000 04 04	704	0.4-	0.2-	2000 04 13	704	0.2-	0.7-
1999 02 18	699	0.3-	0.4+	2000 04 04	704	1.0-	1.0-	2000 04 13	704	0.6-	0.5-
1999 02 18	699	0.5-	0.4+	2000 04 07	699	0.6+	0.6+	2000 04 13	704	0.5+	0.7-

2000 APR. 18

M.P.C. 40071

1999 CE₂₈ = 2000 GY₇

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	260.77760	(2000.0)	P			Q		
<i>n</i>	0.22494875	ω	223.83378	+0.75817075	+0.61322625			
<i>a</i>	2.6776080	Ω	97.01948	-0.51965138	+0.77357487			
<i>e</i>	0.1987395	<i>i</i>	12.90460	-0.39387759	+0.15979828			
<i>P</i>	4.38	<i>H</i>	11.8	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 03 21	327	0.1+	0.3+	1999 02 13	704	0.6+	0.8-	2000 04 05	704	0.4+	0.6+
1998 03 21	327	0.0	0.2-	1999 02 13	704	0.4-	0.5+	2000 04 05	704	0.4+	0.4+
1998 03 21	327	0.1+	0.2-	1999 02 13	704	0.3+	0.5+	2000 04 07	699	0.5-	0.1+
1998 03 21	327	0.1-	0.3-	1999 02 13	704	0.9-	0.2+	2000 04 07	699	0.5-	0.1-
1998 11 25	704	0.7-	0.4-	1999 02 13	704	0.6-	0.2-	2000 04 07	699	0.3-	0.2-
1998 11 25	704	1.6-	0.2+	1999 02 20	699	0.9+	0.2+	2000 04 07	699	0.1-	0.1-
1998 11 25	704	(1.2+ 2.4-)		1999 02 20	699	0.5+	0.6+	2000 04 09	699	0.2+	0.0
1998 11 25	704	1.4+	0.8+	1999 02 20	699	0.8+	0.8+	2000 04 09	699	0.1-	0.1+
1998 12 14	699	0.7+	0.8+	2000 04 04	704	0.6+	0.7-	2000 04 09	699	0.3-	0.2-
1998 12 14	699	1.2+	0.0	2000 04 04	704	0.1-	0.1-	2000 04 09	699	0.0	0.2-
1998 12 14	699	0.3+	0.3+	2000 04 04	704	0.0	0.5-	2000 04 13	704	0.2+	0.2-
1999 02 10	704	0.3-	0.1-	2000 04 04	704	0.2+	0.5+	2000 04 13	704	0.1+	0.3-
1999 02 10	704	0.1-	0.7-	2000 04 04	704	1.5-	0.6+	2000 04 13	704	0.2+	0.5-
1999 02 10	704	0.4-	0.2-	2000 04 05	704	0.3+	0.4+	2000 04 13	704	0.0	0.4-
1999 02 10	704	0.9-	0.3-	2000 04 05	704	0.3+	0.6+	2000 04 13	704	0.2+	0.1-
1999 02 10	704	0.6-	2.0-	2000 04 05	704	0.3+	0.3+				

1999 CK₂₈ = 2000 CW₆₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	164.59831	(2000.0)	P			Q		
<i>n</i>	0.17245403	ω	267.88462	+0.78595647	-0.53041452			
<i>a</i>	3.1965916	Ω	123.99111	+0.59769458	+0.78330259			
<i>e</i>	0.0753141	<i>i</i>	22.53046	-0.15822015	+0.32418742			
<i>P</i>	5.72	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1998 12 17	699	0.4-	0.1-	1999 02 13	704	0.8-	1.1-	2000 03 27	699	0.9-	0.5-
1998 12 17	699	1.1-	0.4-	1999 02 13	704	0.6-	0.7+	2000 03 27	699	0.3-	0.4-
1998 12 17	699	0.1-	1.1-	1999 02 13	704	0.1-	0.3+	2000 03 27	699	0.0	0.0
1999 01 19	704	0.7+	0.9-	1999 02 13	704	0.4+	0.0	2000 03 27	699	0.2-	0.1+
1999 01 19	704	1.1+	0.1+	1999 02 13	704	0.3+	1.1+	2000 04 04	704	0.1-	1.1+
1999 01 19	704	1.3+	1.2+	1999 02 19	566	0.3-	1.2-	2000 04 04	704	0.2+	0.1-
1999 01 19	704	1.0+	1.1+	1999 02 19	566	0.5-	1.7-	2000 04 04	704	0.1+	0.3+
1999 02 10	704	0.4+	0.0	1999 02 19	566	0.6-	1.1-	2000 04 04	704	0.3+	0.7+
1999 02 10	704	0.6+	0.4-	1999 02 20	699	0.2-	1.2+	2000 04 04	704	0.2-	0.5-
1999 02 10	704	0.1-	0.1+	1999 02 20	699	0.3+	0.7+	2000 04 06	704	1.6+	0.1-
1999 02 10	704	0.5+	0.2+	1999 02 20	699	0.1+	0.8+	2000 04 06	704	0.5+	0.6+
1999 02 10	704	(2.7- 0.3-)		2000 02 04	704	0.1+	0.5-	2000 04 06	704	0.9+	0.0
1999 02 11	704	0.5+	0.4-	2000 02 04	704	0.3-	0.3-	2000 04 06	704	0.3+	0.6+
1999 02 11	704	0.3-	0.4+	2000 02 04	704	0.7-	0.2-	2000 04 06	704	0.6+	0.2+
1999 02 11	704	0.1+	0.1-	2000 02 04	704	0.1+	0.3-	2000 04 07	704	0.4-	0.5-
1999 02 11	704	0.7+	0.6-	2000 02 04	704	0.1-	0.0	2000 04 07	704	0.4+	0.2+
1999 02 11	704	0.0	1.3-	2000 02 08	704	0.2+	0.6-	2000 04 07	704	0.5+	0.1-
1999 02 11	704	0.3+	0.1+	2000 02 08	704	0.0	0.7+	2000 04 07	704	0.1-	0.0
1999 02 11	704	0.0	0.7-	2000 02 08	704	0.3-	0.6-	2000 04 08	704	0.3+	0.1+
1999 02 11	704	0.0	0.8-	2000 03 11	703	0.2-	0.6+	2000 04 08	704	0.8+	0.5-
1999 02 11	704	0.2-	0.0	2000 03 11	703	0.3-	0.3+	2000 04 08	704	0.3-	0.2+
1999 02 11	704	0.4+	0.1+	2000 03 11	703	0.1-	0.2+	2000 04 08	704	1.2+	0.7-
1999 02 11	704	0.8-	0.1+	2000 03 11	703	0.9-	0.3+	2000 04 08	704	0.2+	1.3-
1999 02 11	704	0.8-	0.5+	2000 03 12	699	0.5-	0.2+	2000 04 10	608	0.5-	0.1-
1999 02 11	704	0.1-	1.1+	2000 03 12	699	0.9-	0.1+	2000 04 10	608	0.2-	0.4-
1999 02 11	704	1.1-	1.1+	2000 03 12	699	0.7-	0.6+	2000 04 10	608	0.5-	0.0
1999 02 11	704	0.6-	1.1+	2000 03 12	699	0.0	0.2+				

1999 CN₃₂ = 2000 GB₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	261.27091	(2000.0)	P			Q		
<i>n</i>	0.18358480	ω	207.40804	+0.65784719	+0.73275981			
<i>a</i>	3.0660430	Ω	104.28216	-0.65393637	+0.67038067			
<i>e</i>	0.0844041	<i>i</i>	10.34768	-0.37363658	+0.11684528			
<i>P</i>	5.37	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1999 02 10	704	0.2+	0.3+	1999 02 18	566	0.5-	0.8-	2000 04 07	699	0.0	0.0
1999 02 10	704	0.1-	0.5+	1999 02 18	566	0.4-	0.7-	2000 04 07	699	0.1-	0.1-
1999 02 10	704	0.9+	0.5-	1999 02 18	566	0.8-	0.5-	2000 04 08	704	0.3-	0.1+
1999 02 10	704	1.9+	1.3+	1999 02 20	699	1.0+	0.5+	2000 04 08	704	0.5+	0.4-
1999 02 10	704	1.8-	1.3-	1999 02 20	699	0.7+	0.7+	2000 04 08	704	0.5-	0.1+
1999 02 12	699	0.2+	0.1+	1999 02 20	699	0.0	0.3+	2000 04 09	699	0.8-	0.2+
1999 02 12	699	1.4-	0.7+	2000 04 04	704	0.1+	0.0	2000 04 09	699	0.1+	0.2+
1999 02 12	699	0.1+	0.1+	2000 04 04	704	0.3+	0.3-	2000 04 09	699	0.3+	0.2+
1999 02 13	704	0.8+	0.2-	2000 04 04	704	0.3+	0.1-	2000 04 09	699	0.7-	0.3+
1999 02 13	704	0.9-	0.1-	2000 04 04	704	0.2+	0.2-	2000 04 13	704	0.3+	0.5+
1999 02 13	704	0.4-	0.1+	2000 04 04	704	0.3+	0.3+	2000 04 13	704	0.4+	1.0-
1999 02 13	704	0.1+	0.1-	2000 04 07	699	0.0	0.2+	2000 04 13	704	0.2-	0.4-
1999 02 13	704	0.5+	0.3-	2000 04 07	699	0.2-	0.3+				

1999 CY₄₆ = 1990 QT₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	205.89226	(2000.0)	P			Q		
<i>n</i>	0.28201416	ω	278.10242	+0.75178612	-0.65125990			
<i>a</i>	2.3029726	Ω	122.60197	+0.64295151	+0.68917796			
<i>e</i>	0.0947207	<i>i</i>	7.04580	+0.14639323	+0.31763859			
<i>P</i>	3.49	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1990 08 26	675	1.0+	0.7+	1999 02 10	704	0.7+	0.5+	1999 02 13	704	1.4+	0.6-
1990 08 26	675	0.1+	0.8-	1999 02 10	704	1.2+	0.2-	1999 02 13	704	0.2-	1.9+
1990 09 16	675	0.4-	0.2+	1999 02 10	704	0.1+	0.4+	1999 02 13	704	0.2-	1.0-
1990 09 16	675	0.6-	0.3-	1999 02 12	699	0.7-	0.3-	1999 02 13	704	1.4-	0.1+
1999 02 10	704	0.5+	0.3-	1999 02 12	699	0.7-	0.7-	1999 02 13	704	1.5-	0.0
1999 02 10	704	1.0+	0.1+	1999 02 12	699	0.2-	0.2-				

1999 CH₆₂ = 2000 GW₅₈

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	200.12171	(2000.0)	P			Q		
<i>n</i>	0.17600925	ω	157.29488	+0.99707344	-0.02212479			
<i>a</i>	3.1534000	Ω	204.31939	+0.00369921	+0.97004849			
<i>e</i>	0.0292094	<i>i</i>	10.23543	+0.07636008	+0.24190167			
<i>P</i>	5.60	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1999 02 12	704	0.2-	0.4-	2000 04 02	691	0.5-	0.7-	2000 04 07	699	0.4-	0.0
1999 02 12	704	0.2+	0.9-	2000 04 02	691	0.5-	0.6-	2000 04 07	704	0.0	0.2+
1999 02 12	704	0.3-	1.0-	2000 04 05	704	0.2-	0.1-	2000 04 07	699	0.1-	0.0
1999 02 12	704	1.0-	1.0-	2000 04 05	704	0.1-	0.3-	2000 04 07	704	0.3+	0.3+
1999 02 12	704	0.3+	0.3-	2000 04 05	704	0.1+	0.2-	2000 04 07	699	0.5-	0.2-
1999 02 16	704	0.4+	0.8+	2000 04 05	704	0.0	0.1-	2000 04 07	704	0.7-	0.4-
1999 02 16	704	0.2-	0.7+	2000 04 05	704	0.2-	0.0	2000 04 07	704	1.0+	1.1+
1999 02 16	704	0.5+	1.9+	2000 04 06	704	0.0	0.2-	2000 04 07	704	0.2+	0.0
1999 02 16	704	0.2+	0.4+	2000 04 06	704	0.3+	0.0	2000 04 08	704	0.6+	0.4+
1999 02 21	699	0.6+	0.5-	2000 04 06	704	0.2+	0.0	2000 04 08	704	0.3+	0.0
1999 02 21	699	0.6+	0.7-	2000 04 06	704	0.5+	0.5+	2000 04 08	704	0.1+	0.2+
1999 02 21	699	0.9-	1.1+	2000 04 06	704	0.3+	0.4+	2000 04 08	704	0.1+	0.1-
2000 04 02	691	(0.6-	2.6-)	2000 04 07	699	0.4-	0.1-	2000 04 08	704	0.6-	0.0

1999 CL₆₄ = 2000 GN₁₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	118.55252		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.19021376	ω	266.77260	+0.09653090	−0.99529415		
<i>a</i>	2.9943882	Ω	177.63768	+0.97508025	+0.09286051		
<i>e</i>	0.1021106	<i>i</i>	11.82494	+0.19975057	+0.02768545		
<i>P</i>	5.18	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 12 26	699	0.3+	0.1−	1999 02 16	704	0.5+	0.8−
1998 12 26	699	0.2−	0.7−	1999 02 16	704	0.5−	0.7−
1998 12 26	699	0.5−	0.1−	1999 02 16	704	0.5−	0.1+
1999 01 15	699	0.5−	1.0+	1999 02 16	704	1.0−	0.8+
1999 01 15	699	0.0	0.1+	1999 02 16	704	0.3−	0.3+
1999 01 15	699	0.8+	0.0	1999 02 20	699	0.5−	0.9+
1999 02 12	704	0.2+	0.0	1999 02 20	699	0.4+	0.5−
1999 02 12	704	0.2−	0.2−	1999 02 20	699	0.7+	0.2−
1999 02 12	704	0.4+	0.0	2000 04 07	704	0.3+	0.5−
1999 02 12	704	0.7+	0.0	2000 04 07	704	0.2−	0.1+
1999 02 12	704	0.0	0.2+	2000 04 07	704	0.1+	0.4−

1999 CT₆₄ = 1997 QT₃ = 2000 GB₃₀

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	164.70711		(2000.0)	$\mathbf{P}$		$\mathbf{Q}$					
n	0.18164189	ω	184.49777	+0.91771745		−0.38779348					
a	3.0878679	Ω	199.03806	+0.37219226		+0.91515804					
e	0.1985376	i	15.30222	+0.13880777		+0.11000900					
P	5.43 <th>H</th> <td>13.0</td> <th>G</th> <td>0.15</td> <th>U</th> <td>3</td> <td></td>	H	13.0	G	0.15	U	3				
Residuals in seconds of arc											
1997 08 30	910	0.3−	0.4+	1999 02 12	704	0.1−	0.5−	2000 04 06	704	0.0	0.0
1997 08 30	910	0.4−	0.5+	1999 02 12	704	1.2−	0.3+	2000 04 06	704	0.3+	0.5+
1997 08 30	910	0.2−	0.5+	1999 02 12	704	0.4−	1.1−	2000 04 06	704	0.1+	0.5+
1997 09 01	910	0.2−	0.5+	1999 02 16	704	0.1+	0.9−	2000 04 07	704	0.4−	0.3+
1997 09 01	910	0.2−	0.7+	1999 02 16	704	1.1+	1.5+	2000 04 07	704	0.3+	0.5+
1997 09 01	910	0.3−	0.7+	1999 02 16	704	1.6−	0.2+	2000 04 07	704	0.5+	0.0
1997 10 29	704	0.6+	0.4−	1999 02 16	704	0.1−	0.4−	2000 04 07	704	0.5+	0.2+
1997 10 29	704	1.0+	0.5+	1999 02 16	704	0.1+	0.3−	2000 04 07	704	0.2+	0.3−
1997 10 29	704	0.8+	0.8+	1999 02 18	566	0.1+	0.4−	2000 04 08	704	0.5+	0.7+
1997 10 29	704	0.5+	0.3+	1999 02 18	566	0.7+	0.2−	2000 04 08	704	0.3+	0.1−
1997 10 29	704	1.0+	0.6+	1999 02 18	566	0.4+	0.2−	2000 04 08	704	0.6−	0.3−
1997 10 30	704	(2.4+ 3.0−)		2000 03 14	703	0.7−	1.4−	2000 04 08	704	0.0	0.4−
1997 10 30	704	(3.0+ 2.8−)		2000 03 14	703	0.9−	0.8+	2000 04 10	704	0.1−	0.2+
1997 10 30	704	(2.2+ 3.0−)		2000 03 14	703	1.5+	0.2+	2000 04 10	704	0.2+	1.5+
1997 10 30	704	(2.9+ 2.3−)		2000 03 14	703	0.1−	0.0	2000 04 10	704	0.2+	0.8+
1997 10 30	704	(1.9+ 3.3−)		2000 04 03	699	0.1+	0.5+	2000 04 10	704	0.3−	0.1−
1997 11 06	704	1.4−	1.0+	2000 04 03	699	0.1+	0.8+	2000 04 10	704	0.3+	1.9+
1997 11 06	704	1.4−	0.7+	2000 04 03	699	(2.3+ 0.2+)		2000 04 10	704	0.0	0.5+
1997 11 06	704	(2.1− 0.8+)		2000 04 03	699	0.0	0.4+	2000 04 10	704	0.4+	1.2+
1997 11 06	704	1.1−	0.8+	2000 04 05	704	0.1−	0.5+	2000 04 10	704	0.8+	0.4+
1997 11 06	704	(2.1− 0.2+)		2000 04 05	704	0.0	0.2+	2000 04 11	608	0.9−	0.1+
1997 11 26	566	0.4+	0.6+	2000 04 05	704	0.1+	0.3+	2000 04 11	608	0.4−	0.2+
1997 11 26	566	0.5+	0.5+	2000 04 05	704	0.2+	0.3+	2000 04 11	608	0.7−	0.3+
1997 11 26	566	0.1+	0.5+	2000 04 05	704	0.6+	0.1+	2000 04 13	691	0.9−	0.1+
1999 02 12	704	0.0	1.1−	2000 04 06	704	0.1+	0.5−	2000 04 13	691	0.6−	0.1+
1999 02 12	704	0.2+	0.2−	2000 04 06	704	1.7+	0.1−	2000 04 13	691	1.0−	0.1+

1999 CQ₈₂ = 1996 HO₁₅ = 2000 GL₁₀₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	271.69486		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.23627391	ω	258.93099	+0.46340282	+0.87899857		
<i>a</i>	2.5913468	Ω	39.31476	−0.72798126	+0.44990220		
<i>e</i>	0.1682797	<i>i</i>	10.21272	−0.50527331	+0.15795421		
<i>P</i>	4.17	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1996 04 17	809	1.2−	2.0+	1997 11 03	704	1.0−	0.1−
1996 04 17	809	1.1−	2.1+	1998 01 08	691	0.4−	0.5+
1996 04 17	809	1.3−	1.9+	1998 01 08	691	0.6−	0.4+
1996 04 18	809(42.2− 23.6+)			1998 01 08	691	0.4−	0.4+
1996 04 18	809(43.3− 22.1+)			1998 11 24	699	0.2+	0.5−
1996 04 18	809	2.5+	2.9+	1998 11 24	699	0.5−	0.6−
1996 04 18	809	1.2+	1.9+	1998 11 24	699	1.0−	1.1+
1996 04 18	809	1.4+	1.8+	1998 12 17	699	0.5+	0.9+
1996 05 21	566	0.8+	1.0−	1998 12 17	699	0.3+	0.1−
1996 05 21	566	0.7+	2.3−	1998 12 17	699	0.2−	0.3+
1996 05 21	566	0.8+	0.9−	1999 01 19	704	0.0	0.6−
1996 05 21	566	0.0	0.5−	1999 01 19	704	0.6+	1.2−
1996 05 21	566	0.2−	0.4−	1999 01 19	704	1.1−	0.1+
1996 05 21	566	0.0	0.1−	1999 01 19	704	1.0−	0.1+
1997 10 30	704	0.4−	1.3+	1999 02 10	704	0.5+	0.8−
1997 10 30	704	0.8−	0.9+	1999 02 10	704	0.1−	0.2−
1997 10 30	704	0.6−	0.8+	1999 02 10	704	0.6+	0.0
1997 10 30	704	0.5−	1.1+	1999 02 10	704	0.7−	0.3+
1997 10 30	704	0.7−	1.3+	1999 02 10	704	0.0	0.4+
1997 10 30	566	0.2−	0.8+	1999 02 13	704	0.6+	0.8−
1997 10 30	566	0.2−	0.8+	1999 02 13	704	0.6−	0.3+
1997 10 30	566	0.3−	0.9+	1999 02 13	704	1.0+	0.4+
1997 11 03	704	0.6−	1.3+	1999 02 13	704	1.5+	1.1−
1997 11 03	704	0.8−	0.8+	1999 02 13	704	0.2+	0.1−
1997 11 03	704	0.0	1.7+	1999 02 19	566	0.2+	0.9+
1997 11 03	704	1.5−	0.7+	1999 02 19	566	0.1+	0.5−

1999 CH₉₄ = 2000 GK₂

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	276.59290		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.19124569	ω	270.91238	+0.49911924	+0.86289818		
<i>a</i>	2.9836070	Ω	29.45567	−0.71701928	+0.46264781		
<i>e</i>	0.0841206	<i>i</i>	9.27876	−0.48658332	+0.20338075		
<i>P</i>	5.15	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	6
Residuals in seconds of arc							
1999 02 10	704	1.3−	1.8−	1999 02 18	566	0.1−	0.3+
1999 02 10	704	1.1+	0.4+	1999 02 18	566	0.3−	0.4−
1999 02 10	704	1.0−	0.8+	1999 02 18	566	0.1−	0.2−
1999 02 10	704	0.6+	0.6+	2000 04 05	684	0.5−	0.2+
1999 02 13	704	0.1−	1.0+	2000 04 05	684	0.4−	0.1+
1999 02 13	704	1.3+	1.3−	2000 04 06	704	0.1+	0.3+
1999 02 13	704	1.0−	0.4+	2000 04 06	684	0.4−	0.4−
1999 02 13	704	0.2−	0.2−	2000 04 06	684	0.3−	0.2−
1999 02 13	704	1.2+	0.2+	2000 04 06	704	0.1+	0.3+

1999 CM₁₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	61.47189		(2000.0)	Marsden		<i>P</i>	<i>Q</i>
<i>n</i>	0.00333003	ω	294.45312	+0.60168485	−0.79762428		
<i>a</i>	44.4123884	Ω	118.49037	+0.74906907	+0.54520082		
<i>e</i>	0.1338212	<i>i</i>	2.74437	+0.27725599	+0.25797593		
<i>P</i>	296	<i>H</i>	7.9	<i>G</i>	0.15		

2000 APR. 18

M.P.C. 40073

Residuals in seconds of arc

1999 02 11	568	0.2−	0.0	1999 04 09	568	0.4+	0.1+	2000 04 06	568	0.0	0.1+
1999 02 11	568	0.2+	0.1+	1999 04 11	568	0.3−	0.2+	2000 04 07	568	0.1−	0.1+
1999 02 18	568	0.1−	0.2−	2000 04 05	568	0.0	0.2−	2000 04 07	568	0.1−	0.2+
1999 02 18	568	0.0	0.2−	2000 04 05	568	0.2+	0.2−				

1999 CW₁₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	150.00263		(2000.0)	P	Q
<i>n</i>	0.00347186	ω	209.86925	+0.90954158	−0.41541100
<i>a</i>	43.1944399	Ω	174.62678	+0.40344715	+0.87500208
<i>e</i>	0.0157675	<i>i</i>	7.95184	+0.09982243	+0.24860624
<i>P</i>	284	<i>H</i>	7.9	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 10	568	0.0	0.1−	1999 02 18	568	0.1−	0.2+	2000 04 07	568	0.1+	0.1−
1999 02 10	568	0.1−	0.0	2000 04 06	568	0.0	0.2−	2000 04 07	568	0.1−	0.4+
1999 02 18	568	0.2+	0.1−	2000 04 06	568	0.1+	0.1−				

1999 CM₁₃₈ = 2000 EX₁₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	14.98923		(2000.0)	P	Q
<i>n</i>	0.21827243	ω	68.43894	−0.86294938	−0.50312233
<i>a</i>	2.7319335	Ω	81.32731	+0.44433692	−0.79965569
<i>e</i>	0.0547325	<i>i</i>	2.71103	+0.24058902	−0.32774793
<i>P</i>	4.52	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 11 19	699	0.0	1.6−	1999 02 07	691	0.3+	0.4−	2000 03 11	699	0.1−	0.1−
1998 11 19	699	0.2+	1.2+	1999 02 13	691	0.3−	0.2+	2000 03 11	699	0.0	0.1+
1998 11 19	699	0.4−	1.1−	1999 02 13	691	0.3−	0.2+	2000 03 11	699	0.3+	1.0+
1998 11 23	691	0.1−	0.6+	2000 02 11	704	1.4+	0.2+	2000 03 12	704	0.4−	0.3−
1998 11 23	691	0.0	0.6+	2000 02 11	704	0.4+	0.3−	2000 03 12	704	0.8+	0.6−
1998 11 23	691	0.1+	0.5+	2000 02 11	704	0.8−	0.0	2000 03 12	704	0.8−	1.0+
1999 02 07	691	0.2+	0.4−	2000 02 11	704	0.9−	0.0	2000 03 12	704	0.1+	0.4+
1999 02 07	691	0.2+	0.1+	2000 03 11	699	0.1+	0.2+	2000 03 12	704	0.1−	1.6−

1999 CP₁₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	100.91264		(2000.0)	P	Q
<i>n</i>	0.00324816	ω	247.17570	+0.98372437	−0.17407879
<i>a</i>	45.1555723	Ω	122.82270	+0.17807773	+0.91145321
<i>e</i>	0.1621291	<i>i</i>	3.03752	+0.02397266	+0.37275947
<i>P</i>	303	<i>H</i>	7.7	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 10	568	0.1+	0.0	1999 03 15	568	0.0	0.2+	2000 04 06	568	0.1+	0.0
1999 02 10	568	0.3−	0.2−	2000 04 04	568	0.3+	0.1+	2000 04 07	568	0.1−	0.0
1999 02 10	568	0.2+	0.1−	2000 04 04	568	0.0	0.3−	2000 04 07	568	0.2−	0.2+
1999 03 15	568	0.1+	0.1+	2000 04 05	568	0.2−	0.0				

1999 CS₁₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	293.03470		(2000.0)	P	Q
<i>n</i>	0.00331892	ω	223.23255	−0.89437388	+0.44729315
<i>a</i>	44.5114339	Ω	343.33562	−0.40559239	−0.81553237
<i>e</i>	0.1192602	<i>i</i>	0.98299	−0.18865360	−0.36719993
<i>P</i>	297	<i>H</i>	8.1	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 11	568	0.2+	0.1+	1999 03 16	568	0.1−	0.2−	2000 04 06	568	0.2−	0.4−
1999 02 11	568	0.1−	0.1+	2000 04 04	568	0.1−	0.0	2000 04 07	568	0.1+	0.2−
1999 02 11	568	0.0	0.3+	2000 04 04	568	0.3+	0.3+				
1999 03 16	568	0.1−	0.3−	2000 04 05	568	0.1−	0.4+				

1999 CU₁₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	329.62145		(2000.0)	P	Q
<i>n</i>	0.00336580	ω	25.59763	−0.96503373	−0.26032068
<i>a</i>	44.0971182	Ω	139.27458	+0.23168168	−0.90187794
<i>e</i>	0.0454399	<i>i</i>	2.69783	+0.12261120	−0.34474531
<i>P</i>	293	<i>H</i>	7.3	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 12	568	0.1−	0.0	1999 03 15	568	0.1+	0.0	2000 04 06	568	0.0	0.2−
1999 02 12	568	0.0	0.1−	1999 03 15	568	0.1−	0.0	2000 04 07	568	0.0	0.2+

1999 CG₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	219.09458		(2000.0)	P	Q
<i>n</i>	0.00348935	ω	176.32321	+0.11369086	+0.99342899
<i>a</i>	43.0499586	Ω	100.20459	−0.91187406	+0.10959829
<i>e</i>	0.0859950	<i>i</i>	0.76626	−0.39441105	+0.03297058
<i>P</i>	282	<i>H</i>	7.4	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 11	568	0.2+	0.2+	1999 03 14	568	0.1−	0.2−	2000 04 05	568	0.3+	0.0
1999 02 11	568	0.1−	0.1+	1999 03 14	568	0.0	0.3−	2000 04 07	568	0.1−	0.0
1999 02 11	568	0.0	0.1+	2000 04 05	568	0.0	0.2+	2000 04 07	568	0.1−	0.2−

1999 CH₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	282.28168		(2000.0)	P	Q
<i>n</i>	0.00345168	ω	54.97992	−0.76987038	+0.63818843
<i>a</i>	43.3625973	Ω	164.67572	−0.59022623	−0.70966760
<i>e</i>	0.0842519	<i>i</i>	0.84309	−0.24276037	−0.29847516
<i>P</i>	286	<i>H</i>	7.8	<i>G</i>	0.15

Residuals in seconds of arc

1999 02 12	568	0.1−	0.0	1999 03 16	568	0.0	0.1−	2000 04 06	568	0.0	0.0
1999 02 12	568	0.2+	0.2+	2000 04 05	568	0.1−	0.0	2000 04 07	568	0.2+	0.1+
1999 03 16	568	0.0	0.2−	2000 04 05	568	0.0	0.1−				

1999 EF₁₂ = 1979 SB₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	277.54028		(2000.0)	P	Q
<i>n</i>	0.22863604	ω	210.80685	+0.96753849	+0.23166492
<i>a</i>	2.6487416	Ω	135.42818	−0.19247189	+0.93445611
<i>e</i>	0.0876729	<i>i</i>	8.27431	−0.16377987	+0.27041292
<i>P</i>	4.31	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1979 09 24	095	0.5+	1.6−	1999 03 15	704	0.6−	0.4−	1999 04 06	699	0.5+	0.4+
1994 01 17	010	0.9−	0.5+	1999 03 15	704	0.3−	0.4−	1999 04 12	704	0.5−	0.3+
1994 01 17	010	0.7−	0.1+	1999 03 20	704	0.2+	0.1−	1999 04 12	704	0.3−	0.1+
1994 01 17	010	0.6−	0.0	1999 03 20	704	0.9+	0.2−	1999 04 12	704	(2.2− 0.3+)	
1994 01 30	010	1.3+	0.9−	1999 03 20	704	0.2−	0.3−	1999 04 12	704	0.4−	0.6+
1994 01 30	010	0.6+	1.3−	1999 03 20	704	0.4+	0.6−	1999 04 12	704	1.6+	0.1+
1996 07 21	809	0.2+	0.6−	1999 03 20	704	0.2+	1.0−	1999 04 16	704	1.5+	0.5+
1996 07 21	809	0.3+	0.5−	1999 03 23	699	0.0	0.1−	1999 04 16	704	0.1−	0.5+
1996 07 21	809	0.1−	0.7−	1999 03 23	699	0.9−	0.0	1999 04 16	704	(1.1+ 3.4−)	
1999 03 15	704	0.5−	0.5−	1999 03 23	699	1.5−	1.2+	1999 04 16	704	1.4−	1.9−
1999 03 15	704	0.1−	0.3−	1999 04 06	699	0.3+	0.2+	1999 04 16	704	0.3+	0.5−
1999 03 15	704	0.2−	0.3−	1999 04 06	699	0.7+	0.3+				

1999 GZ₁₆ = 1993 OF₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	27.75743		(2000.0)	P	Q
<i>n</i>	0.30454628	ω	164.00760	+0.09929757	+0.99328487
<i>a</i>	2.1879321	Ω	111.66101	−0.91980601	+0.11438708
<i>e</i>	0.1357035	<i>i</i>	3.66279	−0.37960098	−0.01734227
<i>P</i>	3.24	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 07 19	809	0.2+	0.1+	1997 11 29	704	1.0−	0.2−	1999 04 12	704	0.0	0.5+
1993 07 19	809	0.4+	0.0	1997 11 29	704	(2.1+	1.5+)	1999 04 12	704	0.7+	0.2+
1993 07 19	809	0.7+	0.7+	1997 11 29	704	(4.6−	2.3+)	1999 04 12	704	0.4+	0.3−
1993 07 23	809	0.9+	0.6−	1998 02 27	327	0.1−	0.2−	1999 04 12	704	1.2+	0.3−
1993 07 23	809	0.3−	0.4−	1998 02 27	327	0.0	0.6−	1999 04 12	704	1.0+	0.0
1993 07 23	809	0.2−	0.6−	1998 02 27	327	0.9−	1.2−	1999 04 15	704	1.3−	0.1−
1993 07 26	809	(0.9+	5.5+)	1999 03 23	699	0.3+	0.3−	1999 04 15	704	1.1+	1.2−
1993 07 26	809	(0.2−	5.8+)	1999 03 23	699	1.2+	1.2+	1999 04 15	704	1.2−	0.3+
1993 07 26	809	(0.3−	5.2+)	1999 03 23	699	(2.1+	0.7+)	1999 04 16	704	0.4−	1.0+
1996 05 22	566	0.8−	0.7+	1999 04 06	704	0.7−	0.1+	1999 04 16	704	(2.5−	0.6+)
1996 05 22	566	0.9−	0.7+	1999 04 06	704	0.3−	0.3−	1999 04 16	704	0.1−	0.3+
1996 05 22	566	1.3−	0.3+	1999 04 06	704	0.7+	1.9−	1999 04 16	704	(0.1−	2.3+)
1997 11 29	704	0.2+	0.1−	1999 04 06	704	1.0+	0.0	1999 04 16	704	1.2−	0.4−
1997 11 29	704	0.4+	0.6+	1999 04 06	704	0.2−	0.9−				

1999 GS₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	273.73317		(2000.0)	P	Q
<i>n</i>	0.00338890	ω	275.11696	+0.49021654	+0.87080417
<i>a</i>	43.8964991	Ω	24.34834	−0.75960368	+0.44779541
<i>e</i>	0.0580704	<i>i</i>	5.18429	−0.42742249	+0.20292700
<i>P</i>	291	<i>H</i>	6.8	<i>G</i> 0.15	

Residuals in seconds of arc

1999 04 12	809	0.4+	0.1−	1999 05 16	809	0.1−	0.1+	2000 03 31	568	0.2−	0.2+
1999 04 12	809	0.2+	0.3+	1999 05 17	809	0.2−	0.1+	2000 03 31	568	0.2−	0.1+
1999 04 12	809	0.3+	0.2+	1999 05 17	809	0.1+	0.2−	2000 04 02	568	0.2+	0.5−
1999 04 13	809	0.1−	0.0	1999 05 17	809	0.1+	0.4−	2000 04 02	568	0.4+	0.5−
1999 04 13	809	0.1−	0.6+	1999 05 17	809	0.2−	0.6−	2000 04 02	568	0.2−	0.4+
1999 04 13	809	0.2−	0.4+	1999 05 17	809	0.3−	0.6−	2000 04 02	568	0.2+	0.5+

1999 HS₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	273.39221		(2000.0)	P	Q
<i>n</i>	0.00340198	ω	188.30665	+0.40418650	+0.91363081
<i>a</i>	43.7839086	Ω	105.54250	−0.83656958	+0.38857899
<i>e</i>	0.0149771	<i>i</i>	2.60133	−0.36984403	+0.11952033
<i>P</i>	290	<i>H</i>	6.7	<i>G</i> 0.15	

Residuals in seconds of arc

1999 04 17	695	0.1+	0.1+	1999 05 06	950	0.3+	0.2+	2000 04 05	709	1.3−	0.7+
1999 04 17	695	0.2+	0.0	2000 03 29	568	0.1−	0.2+	2000 04 05	709	0.4+	0.9−
1999 04 17	695	0.2−	0.1−	2000 03 29	568	0.0	0.3+	2000 04 05	709	0.7+	0.6−
1999 05 05	950	0.3−	0.3−	2000 03 29	568	0.4+	0.2+				
1999 05 05	950	0.1+	0.1−	2000 03 30	695	0.2+	0.1+				

1999 HT₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	57.23025		(2000.0)	P	Q
<i>n</i>	0.00344703	ω	52.94434	−0.77310047	−0.62815023
<i>a</i>	43.4016162	Ω	87.96944	+0.55041081	−0.73332901
<i>e</i>	0.0851866	<i>i</i>	5.05139	+0.31521992	−0.26010738
<i>P</i>	286	<i>H</i>	7.5	<i>G</i> 0.15	

Residuals in seconds of arc

1999 04 17	695	0.2+	0.3−	1999 05 06	950	0.6+	0.2−	2000 03 31	568	0.3+	0.0
1999 04 17	695	0.8−	0.1+	1999 06 05	950	0.1−	0.0	2000 03 31	568	0.1−	0.0
1999 04 17	695	0.1−	0.0	1999 06 05	950	0.2−	0.4+	2000 04 02	568	0.0	0.0
1999 05 06	950	0.5+	0.1−	1999 06 06	950	0.0	0.2+	2000 04 02	568	0.3−	0.0

1999 HU₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	274.76683		(2000.0)	P	Q
<i>n</i>	0.00339589	ω	246.43710	+0.47300374	+0.88104640
<i>a</i>	43.8362837	Ω	51.79329	−0.80603285	+0.43499623
<i>e</i>	0.0675159	<i>i</i>	0.36249	−0.35577873	+0.18583736
<i>P</i>	290	<i>H</i>	6.9	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1999 04 12	809	0.0	0.3−	1999 04 18	695	0.4+	0.1+	2000 03 29	568	0.1+	0.1−
1999 04 12	809	0.0	0.1−	1999 04 18	695	0.3−	0.0	2000 03 29	568	0.0	0.0
1999 04 12	809	0.1−	0.1+	1999 05 05	950	0.1−	0.0	2000 03 31	568	0.0	0.1−
1999 04 13	809	0.0	0.2−	1999 05 06	950	0.2−	0.2+	2000 03 31	568	0.1−	0.2−
1999 04 13	809	0.0	0.0	1999 05 21	697	0.1+	0.2+	2000 04 02	568	0.1+	0.1+
1999 04 13	809	0.3−	0.2−	1999 05 21	697	0.3+	0.3+	2000 04 02	568	0.1−	0.2+
1999 04 18	695	0.2+	0.1−	2000 03 29	568	0.1−	0.0				

1999 HV₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	103.06997		(2000.0)	P	Q
<i>n</i>	0.00351686	ω	294.71291	−0.10138842	−0.99468561
<i>a</i>	42.8251845	Ω	161.08031	+0.93155633	−0.10124310
<i>e</i>	0.0645472	<i>i</i>	3.16721	+0.34917503	−0.01871826
<i>P</i>	280	<i>H</i>	7.6	<i>G</i> 0.15	<i>U</i> 7

Residuals in seconds of arc

1999 04 18	695	0.2−	0.1−	1999 05 06	950	0.0	0.1−	2000 03 31	568	0.2+	0.0
1999 04 18	695	0.3+	0.5−	1999 05 06	950	0.5+	0.1−	2000 04 07	568	0.4−	0.1−
1999 04 18	695	0.3−	0.1−	1999 05 06	950	0.0	0.1+	2000 04 07	568	0.4+	0.0
1999 05 05	950	0.0	0.5+	1999 05 07	950	0.4−	0.4+				
1999 05 05	950	0.2+	0.1−	2000 03 31	568	0.1−	0.1+				

1999 HW₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	26.15130		(2000.0)	P	Q
<i>n</i>	0.00204746	ω	301.94771	−0.75836547	−0.64503057
<i>a</i>	61.4221630	Ω	198.44749	+0.65177881	−0.74859865
<i>e</i>	0.4469597	<i>i</i>	17.26225	+0.00813604	−0.15341323
<i>P</i>	481	<i>H</i>	6.9	<i>G</i> 0.15	

Residuals in seconds of arc

1999 04 18	695	0.0	0.2+	1999 05 07	950	0.6+	0.6−	2000 03 31	568	0.4+	0.3−
1999 04 18	695	0.3−	0.8+	1999 06 05	950	0.7−	0.1−	2000 04 02	568	0.2−	0.3+
1999 04 18	695	0.1−	0.8+	1999 06 05	950	0.4−	0.5−	2000 04 02	568	0.3−	0.2+
1999 05 06	950	0.7+	0.2−	1999 06 06	950	0.1−	0.3−				
1999 05 06	950	0.2+	0.3−	2000 03 31	568	0.2+	0.1+				

1999 HB₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Marsden

<i>M</i>	344.30809		(2000.0)	P	Q
<i>n</i>	0.00250669	ω	61.43686	−0.66472243	+0.74518875
<i>a</i>	53.6704356	Ω	166.48630	−0.74001116	−0.64695486
<i>e</i>	0.3801152	<i>i</i>	13.17747	−0.10260393	−0.16168838
<i>P</i>	393	<i>H</i>	7.5	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1999 04 18	695	0.1−	0.3−	2000 03 28	568	0.1+	0.1−	2000 04 07	709	(0.7−	2.6+)
1999 04 18	695	0.2+	0.1−	2000 03 28	568	0.4+	0.1−	2000 04 07	709	1.4+	0.5−

2000 APR. 18

M.P.C. 40075

1999 04 18	695	0.1−	0.1−	2000 03 28	568	0.1+	0.0	2000 04 07	568	0.8−	0.2−
1999 05 05	950	0.2−	0.2+	2000 04 02	568	0.7−	0.3−	2000 04 07	568	0.5−	0.3−
1999 05 05	950	0.3+	0.1+	2000 04 02	568	0.4−	0.3−				
1999 05 05	950	0.3+	0.1+	2000 04 07	709	1.1+	1.7+				

1999 JV₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	184.22176		(2000.0)	P	Q
<i>n</i>	0.97505896	ω	235.63197	+0.99706397	−0.00865545
<i>a</i>	1.0071994	Ω	124.74978	+0.03466134	+0.93698583
<i>e</i>	0.3112052	<i>i</i>	5.31303	−0.06827903	+0.34926013
<i>P</i>	1.01	<i>H</i>	19.6	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1999 05 13	704	0.2+	0.0	1999 05 15	704	0.7−	0.4−	1999 05 23	610	0.3−	0.6+
1999 05 13	704	0.7+	0.8−	1999 05 15	704	0.2+	1.0−	1999 05 23	587	0.6−	1.2+
1999 05 13	704	1.1−	1.2−	1999 05 15	704	(0.2+	2.1−)	1999 05 23	610	0.5−	0.6+
1999 05 13	704	0.8+	0.1+	1999 05 15	704	1.4+	0.1−	1999 05 23	610	0.7−	0.6+
1999 05 13	704	0.7−	0.3+	1999 05 15	704	0.1+	0.5+	1999 05 23	610	0.9−	0.6+
1999 05 14	704	0.1+	0.2−	1999 05 15	704	0.8+	1.2−	1999 05 23	610	1.0−	0.5+
1999 05 14	719	0.8−	0.5+	1999 05 15	704	0.6+	0.4+	1999 05 24	658	0.5+	0.5−
1999 05 14	719	0.4−	0.6+	1999 05 15	704	0.4+	1.3−	1999 05 24	658	0.2+	0.8−
1999 05 14	704	0.3+	0.2−	1999 05 15	704	0.2+	0.8−	1999 05 24	658	0.1−	0.3−
1999 05 14	704	0.6+	1.1+	1999 05 15	704	0.6−	0.5−	1999 05 25	688	0.0	0.4−
1999 05 14	704	0.3+	0.4+	1999 05 15	704	0.7−	0.4+	1999 05 25	688	0.7−	0.4−
1999 05 14	719	0.1−	0.1+	1999 05 15	704	1.1+	0.4−	1999 05 25	688	1.1+	0.7−
1999 05 14	704	0.9−	1.0−	1999 05 15	704	0.9+	0.0	1999 05 25	688	0.7+	1.0+
1999 05 14	719	0.0	0.1+	1999 05 15	426	0.0	0.3+	1999 05 25	688	1.3−	0.3+
1999 05 14	704	1.0+	0.3+	1999 05 15	426	0.2−	0.2+	1999 05 26	658	0.2+	0.2+
1999 05 14	704	0.6+	0.4+	1999 05 15	426	0.2−	0.1+	1999 05 26	658	1.4−	0.9−
1999 05 14	704	0.7+	0.8−	1999 05 16	118	0.6−	0.4−	1999 05 26	658	0.8+	0.3−
1999 05 14	704	0.1+	0.1−	1999 05 16	118	0.7−	0.6−	1999 06 03	118	1.0+	0.1+
1999 05 14	704	(2.2+	0.7+)	1999 05 16	118	0.6−	0.6−	1999 06 03	118	1.5+	0.5+
1999 05 14	704	1.0+	0.4+	1999 05 16	046	0.2+	0.1+	2000 03 13	413	0.1−	0.0
1999 05 14	704	(2.2+	1.4+)	1999 05 16	046	0.1+	0.4+	2000 03 13	413	0.5−	0.0
1999 05 14	704	0.4−	1.0−	1999 05 16	046	0.2+	0.6+	2000 03 13	413	0.3−	0.4+
1999 05 14	704	1.0+	0.8−	1999 05 16	046	0.1−	1.2+	2000 04 03	046	0.2+	0.0
1999 05 14	704	1.0+	0.1−	1999 05 19	118	0.5−	0.2+	2000 04 03	046	0.1+	1.5+
1999 05 14	704	0.6+	0.2−	1999 05 19	118	0.0	0.1+	2000 04 03	046	0.6−	0.2+
1999 05 14	704	1.5+	0.1+	1999 05 19	118	0.4−	0.0	2000 04 03	046	0.2+	0.1−
1999 05 14	704	0.2+	0.9−	1999 05 19	610	(0.0	2.4+)	2000 04 03	046	0.5−	0.3+
1999 05 14	704	0.3+	0.4−	1999 05 19	610	0.8−	2.0+	2000 04 03	046	1.0−	0.5−
1999 05 14	704	0.5+	0.2−	1999 05 19	610	1.5−	1.5+	2000 04 03	046	(2.4−	0.1+)
1999 05 14	557	0.5−	0.1+	1999 05 19	610	(2.3−	1.1+)	2000 04 03	046	0.1+	0.7+
1999 05 14	557	0.7−	0.5+	1999 05 19	610	(3.0−	0.8+)	2000 04 04	688	0.1−	0.3+
1999 05 14	557	0.2−	0.1−	1999 05 23	658	0.1+	0.2+	2000 04 04	688	0.0	0.2+
1999 05 14	620	1.6−	1.2+	1999 05 23	658	0.0	0.5+	2000 04 14	704	0.5+	0.6−
1999 05 14	620	0.9−	0.5+	1999 05 23	658	0.3−	0.5+	2000 04 14	704	0.1+	0.7−
1999 05 14	620	0.2−	0.3−	1999 05 23	118	0.2−	0.4−	2000 04 14	704	0.7+	0.3+
1999 05 14	620	0.4+	0.8−	1999 05 23	118	0.2+	0.2−	2000 04 14	704	0.1−	0.8−
1999 05 15	704	0.6+	0.1−	1999 05 23	587	0.9−	0.4−	2000 04 14	704	0.6+	0.4+
1999 05 15	704	0.5+	0.3−	1999 05 23	587	0.1+	0.6−				

1999 JX₇₅ = 1997 WU₄₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	38.17063		(2000.0)	P	Q
<i>n</i>	0.30919970	ω	266.80094	+0.14943434	+0.98869223
<i>a</i>	2.1659246	Ω	11.81542	−0.88113842	+0.13890753
<i>e</i>	0.1108385	<i>i</i>	3.50893	−0.44862508	+0.05650109
<i>P</i>	3.19	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1997 11 29	704	1.6−	0.7+	1999 03 25	704	0.5+	0.5−	1999 05 14	704	1.0−	0.6+
1997 11 29	704	0.9−	0.7+	1999 03 25	704	1.0+	0.7−	1999 05 14	704	0.5+	1.1+
1997 11 29	704	(2.6−	1.6−)	1999 03 25	704	(0.6−	3.4+)	1999 05 14	704	1.2−	0.8−

1997 11 29	704	0.5+	0.1+	1999 03 25	704	0.7−	1.0−	1999 05 17	699	1.5+	0.5+
1997 11 29	704	1.7−	1.1+	1999 05 10	704	0.9−	0.2+	1999 05 17	699	1.1+	0.7+
1997 12 04	704	(2.3+	1.2+)	1999 05 10	704	0.6+	0.2−	1999 05 17	699	1.4+	0.4+
1997 12 04	704	(2.6+	0.1+)	1999 05 10	704	1.4−	0.8+	1999 07 02	699	0.3−	1.0+
1997 12 04	704	1.8+	0.6−	1999 05 10	704	1.4−	0.5+	1999 07 02	699	0.7+	0.7−
1997 12 04	704	1.8+	0.8−	1999 05 14	704	0.7+	0.5−	1999 07 02	699	0.9+	0.6−
1999 03 25	704	(2.3+	0.3−)	1999 05 14	704	0.8−	0.2+				

1999 KD = 1996 TG₄₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	9.79157		(2000.0)	P	Q
<i>n</i>	0.27668223	ω	269.97666	+0.87369264	+0.47768870
<i>a</i>	2.3324654	Ω	61.48865	−0.39419017	+0.80605173
<i>e</i>	0.2670265	<i>i</i>	6.01354	−0.28508821	+0.34941968
<i>P</i>	3.56	<i>H</i>	17.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1996 10 09	691	0.1−	0.2+	1996 10 17	691	0.0	0.3+	1999 05 17	691	0.3+	0.3−
1996 10 09	691	0.4−	0.1−	1999 05 16	691	0.5+	0.3+	1999 05 20	691	0.0	1.0−
1996 10 09	691	0.2−	0.0	1999 05 16	691	0.2+	0.0	1999 05 20	691	0.8−	0.6−
1996 10 17	691	0.1+	0.0	1999 05 17	691	0.2+	0.0	1999 05 20	691	0.1+	0.1+
1996 10 17	691	0.5+	0.5−	1999 05 17	691	0.7−	1.6+				

1999 KJ = 1998 AY₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	280.64087		(2000.0)	P	Q
<i>n</i>	0.27931697	ω	287.96111	+0.81716619	−0.57586687
<i>a</i>	2.3177744	Ω	107.20623	+0.53818914	+0.74685639
<i>e</i>	0.1317154	<i>i</i>	1.48976	+0.20637797	+0.33254004
<i>P</i>	3.53	<i>H</i>	16.7	<i>G</i>	0.15
				<i>U</i>	6

Residuals in seconds of arc

1998 01 01	691	0.1+	0.3+	1998 01 06	691	0.3−	0.2+	1999 05 17	691	0.2+	0.3−
1998 01 01	691	0.1−	0.2−	1999 05 16	691	0.3+	0.4+	1999 05 20	691	0.3+	0.0
1998 01 01	691	0.1−	0.2−	1999 05 16	691	0.6−	0.6+	1999 05 20	691	0.5−	0.2−
1998 01 06	691	0.1−	0.0	1999 05 17	691	0.1+	0.1−	1999 05 20	691	0.1−	0.3−
1998 01 06	691	0.4+	0.1−	1999 05 17	691	0.3+	0.0				

1999 KZ₁ = 1979 QM₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	315.15936		(2000.0)	P	Q
<i>n</i>	0.18724759	ω	236.14256	+0.91867258	+0.39417790
<i>a</i>	3.0259278	Ω	100.63098	−0.35320878	+0.84890309
<i>e</i>	0.0725517	<i>i</i>	1.50289	−0.17687352	+0.35211833
<i>P</i>	5.26	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1979 08 22	809	0.2−	0.7−	1995 08 30	809	0.1+	0.1+	1999 05 16	691	0.2+	0.2−
1979 08 22	809	0.6+	0.1−	1995 09 20	809	0.4−	0.4+	1999 05 16	691	0.4−	0.0
1979 08 22	809	0.1−	0.1−	1995 09 22	809	0.3−	0.3+	1999 05 20	691	0.1−	0.6−
1979 08 23	809	0.2−	0.4−	1999 05 10	704	0.2−	0.9−	1999 05 20	691	0.1−	0.7−
1979 08 23	809	0.5+	0.4−	1999 05 10	704	0.6+	0.4−	1999 05 20	691	0.2−	0.1+
1994 06 03	809	0.1−	1.6+	1999 05 10	704	1.3+	1.3−	1999 06 04	703	1.0−	0.9+
1994 06 03	809	0.2+	1.1+	1999 05 10	704	0.5−	0.3−	1999 06 04	703	1.0+	0.3+
1994 06 03	809	0.4+	0.3+	1999 05 13	704	(2.5−	1.3−)	1999 06 04	703	0.3+	1.6−
1995 08 19	809	0.5+	0.2+	1999 05 13	704	0.6−	0.5+	1999 06 04	703	0.4−	1.6+
1995 08 27	809	0.3−	0.2+	1999 05 13	704	0.9−	0.1−				
1995 08 29	809	0.1+	0.4−	1999 05 13	704	(3.6−	1.7+)				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	323.71497		(2000.0)	P		Q	
<i>n</i>	0.22131924	ω	185.79083	+0.71942550		−0.68195500	
<i>a</i>	2.7068027	Ω	218.31987	+0.64548084		+0.72649405	
<i>e</i>	0.1522590	<i>i</i>	12.27012	+0.25647893		+0.08452086	
<i>P</i>	4.45	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 10 04	675	0.2−	0.6−	1998 05 01	704	(2.1+	1.3−)	1999 07 13	704	0.1+	0.1−
1986 10 04	675	0.7−	1.2+	1998 05 01	704	1.6+	0.4−	1999 07 13	704	0.2−	0.1+
1986 10 05	675	1.8−	0.6−	1998 05 01	704	0.2+	0.4−	1999 07 13	704	0.2+	0.2−
1986 10 05	675	0.1+	1.9+	1998 05 01	704	0.7−	1.3−	1999 07 13	704	0.8−	0.5−
1986 10 06	675	0.8+	0.9−	1998 05 23	704	1.2−	0.4+	1999 07 22	704	0.4+	0.3−
1986 10 06	675	1.3+	0.9+	1998 05 23	704	0.6+	0.6−	1999 07 22	704	0.1+	0.3−
1991 12 02	675	0.4−	1.3+	1998 05 23	704	1.2−	0.8+	1999 07 22	704	0.2−	0.1−
1991 12 02	675	0.4+	0.2−	1998 05 23	704	1.1+	0.3+	1999 07 22	704	0.3−	0.2+
1998 04 21	704	0.0	1.4+	1998 05 23	704	(5.3−	1.9−)	1999 07 22	704	0.1−	0.0
1998 04 21	704	0.5−	1.6+	1998 05 24	704	0.9−	0.7+	1999 09 08	704	0.1−	0.4+
1998 04 21	704	1.9−	1.5+	1998 05 24	704	1.8−	1.6−	1999 09 08	704	0.0	0.7+
1998 04 22	704	0.9+	0.3−	1998 05 24	704	0.9−	0.5+	1999 09 08	704	0.5+	0.9+
1998 04 22	704	0.7+	1.1+	1998 05 24	704	1.1+	0.5−	1999 09 08	704	0.7+	0.9−
1998 04 22	704	1.5+	0.0	1998 05 24	704	(3.4−	0.5+)				
1998 04 22	704	1.6+	0.2−	1999 07 13	704	0.0	0.5−				

1999 RB₁₂ = 1982 UC₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	9.81969		(2000.0)	P		Q	
<i>n</i>	0.17100196	ω	189.52672	+0.99186495		−0.12720469	
<i>a</i>	3.2146620	Ω	177.76460	+0.12336974		+0.95134536	
<i>e</i>	0.1561283	<i>i</i>	7.04385	+0.03136588		+0.28064384	
<i>P</i>	5.76	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1982 10 18	801	0.3−	1.2+	1999 09 09	704	0.1−	0.3−	1999 10 02	703	0.1+	0.8+
1997 04 03	704	0.7−	0.0	1999 09 09	704	0.4−	0.2−	1999 10 02	703	0.1−	1.0+
1997 04 03	704	0.2+	1.0+	1999 09 09	704	0.1+	0.2−	1999 10 06	704	0.6+	0.2+
1997 04 07	704	1.0+	0.3+	1999 09 09	704	0.3−	0.1+	1999 10 06	704	0.0	0.1−
1997 04 07	704	0.1−	0.2−	1999 09 09	704	0.7+	0.5−	1999 10 06	704	0.1−	0.8−
1999 08 22	699	0.5−	0.4+	1999 09 09	704	0.5−	0.9−	1999 10 06	704	0.0	0.7−
1999 08 22	699	0.2−	0.6−	1999 09 09	704	0.2+	0.1+	1999 10 06	704	0.1+	0.0
1999 08 22	699	0.4+	0.5+	1999 09 09	704	0.4+	0.3−	1999 10 08	704	0.3+	0.8−
1999 09 07	704	0.8−	0.6−	1999 09 14	704	0.7+	0.6−	1999 10 08	704	0.5−	0.5−
1999 09 07	704	0.2−	0.9+	1999 09 14	704	0.2+	0.9+	1999 10 08	704	0.1−	0.1−
1999 09 07	704	0.6−	0.2+	1999 09 14	704	0.5+	0.4+	1999 10 08	704	0.4−	0.2+
1999 09 07	704	0.3+	0.3−	1999 09 14	704	0.0	0.3+	1999 10 15	704	0.1+	0.5+
1999 09 07	704	0.8−	0.2+	1999 09 14	704	0.3−	0.1−	1999 10 15	704	0.7−	0.3+
1999 09 08	704	0.5−	0.1+	1999 09 29	704	1.2+	0.3−	1999 10 15	704	0.7+	0.5+
1999 09 08	704	0.0	0.1+	1999 09 29	704	1.0+	0.0	1999 10 15	704	0.8+	0.6−
1999 09 08	704	0.1−	0.4+	1999 09 29	704	(2.8+	0.8+)	1999 10 15	704	0.4−	1.2−
1999 09 09	704	0.1−	0.4−	1999 10 02	703	0.4−	0.9+				
1999 09 09	704	0.2+	0.1−	1999 10 02	703	0.3−	0.9+				

1999 RD₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	58.48220		(2000.0)	P		Q	
<i>n</i>	0.23249996	ω	294.80910	−0.34238152		+0.93599228	
<i>a</i>	2.6193134	Ω	314.90621	−0.81493832		−0.33917610	
<i>e</i>	0.7784718	<i>i</i>	6.63315	−0.46760071		−0.09422326	
<i>P</i>	4.24	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 01 02	675	0.8+	0.2+	1999 09 12	360	0.1+	0.2−	1999 10 01	118	0.2−	0.2−
1995 01 02	675	0.6−	0.3+	1999 09 12	360	0.1−	0.3−	1999 10 01	118	0.1−	0.4−
1999 09 08	704	0.3+	0.4−	1999 09 12	587	0.5−	0.5−	1999 10 02	118	0.5+	0.2−

1999 09 08	704	0.3+	0.9−	1999 09 12	587	0.5+	0.3+	1999 10 02	118	0.0	0.1−
1999 09 08	704	0.4+	0.6−	1999 09 13	704	0.9−	0.3−	1999 10 03	704	0.1−	1.0−
1999 09 08	704	0.5+	0.7−	1999 09 13	704	0.1+	0.2+	1999 10 03	704	0.0	0.8−
1999 09 08	704	0.6+	0.9−	1999 09 13	704	1.2+	0.5+	1999 10 03	704	0.4−	0.8−
1999 09 09	557	0.1−	0.4−	1999 09 13	848	0.2+	0.2+	1999 10 03	704	0.3−	0.8−
1999 09 09	557	0.2−	0.3−	1999 09 13	848	0.2−	0.2−	1999 10 03	704	0.3−	1.0−
1999 09 09	557	0.3−	0.5−	1999 09 13	704	0.5+	0.0	1999 10 03	703	(2.9−	6.2+)
1999 09 09	118	0.7−	0.1+	1999 09 13	848	0.1+	0.3−	1999 10 03	703	0.6−	0.5−
1999 09 09	118	1.4−	0.3−	1999 09 13	704	0.1−	0.0	1999 10 03	703	0.0	0.6+
1999 09 09	118	0.4−	0.0	1999 09 14	046	0.4−	0.1+	1999 10 03	703	0.5−	0.5+
1999 09 09	046	0.1+	0.2+	1999 09 14	046	0.4−	0.3+	1999 10 07	470	0.4−	1.4+
1999 09 09	046	0.1−	0.1+	1999 09 14	046	0.5−	0.3+	1999 10 07	470	1.6+	1.5+
1999 09 09	046	0.2−	0.0	1999 09 14	704	0.2+	0.1+	1999 10 07	470	(0.5−	2.1+)
1999 09 09	046	0.0	0.1+	1999 09 14	704	0.1+	0.1+	1999 10 08	118	0.1+	0.4+
1999 09 09	670	1.3−	0.1−	1999 09 14	704	0.3−	0.1+	1999 10 08	118	0.2+	0.4+
1999 09 09	704	0.0	0.3−	1999 09 14	704	1.3−	0.0	1999 10 08	699	0.4+	1.7+
1999 09 09	704	0.2−	0.4−	1999 09 14	704	0.3−	0.2+	1999 10 08	699	0.2+	1.0+
1999 09 09	704	0.3+	0.5−	1999 09 14	658	0.2+	0.4−	1999 10 08	699	0.0	1.3+
1999 09 09	704	0.0	0.4−	1999 09 14	658	0.2+	0.5−	1999 10 08	360	0.3+	0.0
1999 09 09	670	1.2−	1.0+	1999 09 14	658	0.1+	0.0	1999 10 08	360	0.4+	0.3+
1999 09 09	670	0.1+	1.2+	1999 09 14	118	1.7+	0.6+	1999 10 08	360	0.2+	0.2+
1999 09 09	704	0.1−	0.4−	1999 09 14	118	1.0+	0.6−	1999 10 08	108	0.2−	1.1−
1999 09 09	704	0.3−	0.5−	1999 09 14	118	0.7+	0.0	1999 10 08	108	1.8+	0.2−
1999 09 09	704	0.1−	0.7−	1999 09 15	658	0.4+	0.6+	1999 10 08	108	1.4−	1.9−
1999 09 09	704	0.1+	0.3−	1999 09 15	658	0.4+	0.5+	1999 10 09	703	1.7−	0.7+
1999 09 09	704	0.2+	0.1−	1999 09 15	658	0.3+	0.2+	1999 10 09	703	0.2−	0.5+
1999 09 09	704	0.1−	0.2−	1999 09 15	848	0.4−	0.4−	1999 10 09	703	0.5−	0.7+
1999 09 09	108	0.1+	0.7+	1999 09 15	848	0.1+	0.2+	1999 10 09	703	0.2+	0.1+
1999 09 09	108	0.0	0.6+	1999 09 15	848	0.2+	0.6+	1999 10 09	699	0.9+	0.0
1999 09 09	108	(2.1−	1.1−)	1999 09 15	595	0.2−	0.9+	1999 10 09	699	0.3+	1.1+
1999 09 09	118	0.3−	0.2−	1999 09 15	595	0.5−	0.7+	1999 10 09	699	0.8−	0.3−
1999 09 09	118	0.1−	0.4−	1999 09 15	595	0.5+	0.7+	1999 10 10	704	0.2+	0.2+
1999 09 09	118	0.4−	0.2−	1999 09 15	595	0.2−	0.8+	1999 10 10	704	0.2+	0.0
1999 09 10	946	1.6+	0.1−	1999 09 16	118	0.1−	0.5+	1999 10 10	704	0.6−	1.0−
1999 09 10	946	1.7+	0.2+	1999 09 16	118	0.3−	0.7+	1999 10 10	704	0.3+	0.3+
1999 09 10	046	0.1+	0.1+	1999 09 16	848	0.1+	0.6+	1999 10 10	704	0.4+	0.3−
1999 09 10	046	0.3−	0.1+	1999 09 16	848	0.2+	0.4+	1999 10 11	595	0.9−	0.4−
1999 09 10	046	0.1−	0.1−	1999 09 16	848	0.3−	0.7−	1999 10 11	595	0.7−	0.6−
1999 09 10	557	0.5−	0.1+	1999 09 17	848	0.2+	0.9+	1999 10 11	595	0.1−	0.8−
1999 09 10	557	0.4−	0.3+	1999 09 17	848	0.1−	0.6+	1999 10 11	595	1.1−	0.0
1999 09 10	557	0.3−	0.0	1999 09 17	848	0.1−	0.4+	1999 10 11	595	0.5+	0.8−
1999 09 10	106	0.0	0.5+	1999 09 18	704	0.5+	0.7−	1999 10 12	118	0.0	0.3−
1999 09 10	106	0.2−	0.2+	1999 09 18	704	0.6+	0.7−	1999 10 12	118	0.0	0.1+
1999 09 10	106	0.0	0.4+	1999 09 18	704	0.6+	0.7−	1999 10 12	071	0.3+	0.5+
1999 09 10	620	0.8−	0.3+	1999 09 18	704	0.3+	0.2−	1999 10 12	071	0.5+	0.6+
1999 09 10	620	0.6−	0.0	1999 09 18	704	0.4+	0.6−	1999 10 12	071	0.7−	0.3+
1999 09 10	620	0.1−	0.2+	1999 09 19	848	0.4−	0.1+	1999 10 14	595	0.5−	0.6−
1999 09 10	108	0.3−	1.3−	1999 09 19	848	0.1−	0.0	1999 10 14	595	0.6−	0.3−
1999 09 10	108	1.2−	1.5+	1999 09 19	848	0.1−	0.1+	1999 10 14	595	0.0	0.5−
1999 09 10	108	0.1−	2.0−	1999 09 19	658	0.3+	0.1+	1999 10 16	658	0.2+	0.4+
1999 09 11	046	0.2−	0.2+	1999 09 19	658	0.1+	0.2+	1999 10 16	658	0.2+	0.3+
1999 09 11	046	0.1−	0.1+	1999 09 19	658	0.4+	0.1−	1999 10 16	658	0.2+	0.5+
1999 09 11	046	0.0	0.0	1999 09 20	848	0.4+	0.2−	1999 10 16	413	0.1+	0.1+
1999 09 11	046	0.1−	0.2+	1999 09 20	848	0.3+	0.0	1999 10 16	413	0.2+	0.1+
1999 09 11	719	1.7+	0.4−	1999 09 20	658	0.3−	0.1+	1999 10 18	658	0.1+	0.2+
1999 09 11	719	(0.8+	3.4−)	1999 09 20	658	0.0	0.0	1999 10 18	658	0.1−	0.3+
1999 09 11	739	0.3+	1.0+	1999 09 20	848	0.2−	0.3−	1999 10 18	658	0.2+	0.2+
1999 09 11	739	0.4−	0.6+	1999 09 20	658	0.1−	0.2+	1999 10 18	557	0.4+	0.3+
1999 09 11	739	(2.8−	1.6+)	1999 09 22	118	0.1+	0.1−	1999 10 18	557	0.2+	0.3−
1999 09 11	848	0.3−	0.3+	1999 09 22	118	0.3+	0.1+	1999 10 18	557	0.4−	0.1−
1999 09 11	848	0.0	0.4+	1999 09 24	046	0.1−	0.2+	1999 10 18	557	0.2+	0.3+
1999 09 11	848	0.2+	0.1−	1999 09 24	046	0.3−	0.4+	1999 10 18	557	0.3+	0.3−
1999 09 11	848	0.0	0.5+	1999 09 24	046	0.3−	0.2+	1999 10 20	704	0.5+	0.4−
1999 09 11	848	0.2+	0.5+	1999 09 24	046	0.2−	0.5+	1999 10 20	704	1.1+	0.2+
1999 09 11	704	0.2+	0.0	1999 09 27	402	0.1−	0.3−	1999 10 20	704	0.7−	1.5−
1999 09 11	704	0.5+	0.1−	1999 09 27	402	0.0	0.1−	1999 10 20	704	0.1+	0.4−
1999 09 11	704	0.1−	0.2+	1999 09 27	402	0.0	0.4−	1999 10 20	402	0.5−	0.5−
1999 09 11	704	0.4+	0.2+	1999 09 28	848	0.0	0.3−	1999 10 20	402	0.4−	0.4−

2000 APR. 18

M.P.C. 40077

1999 09 11	704	0.3+	0.0	1999 09 28	848	0.8+	0.3-	1999 10 20	402	0.5-	0.4-
1999 09 11	108	(2.1-	0.1+)	1999 10 01	587	0.6-	0.1-	1999 11 04	711	0.4+	0.4+
1999 09 11	108	(5.2+	4.5+)	1999 10 01	587	0.1+	1.3-	1999 11 04	711	0.8+	0.4+
1999 09 11	108	(0.6-	4.3-)	1999 10 01	587	0.2+	0.3-				
1999 09 12	360	0.1-	0.3-	1999 10 01	118	0.3-	0.4-				

1999 RH₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	279.59926		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.51010919	ω	351.35812	-0.93908259	-0.34155410
a	1.5512934	Ω	168.44769	+0.32565055	-0.91985789
e	0.1708696	i	11.01729	+0.10988907	-0.19287888
P	1.93	H	19.2	G 0.15	U 4

Residuals in seconds of arc

1985 02 28	413	0.9+	0.6-	1999 09 15	658	1.2+	0.4+	1999 10 05	691	0.0	0.4+
1985 02 28	413	0.9-	0.4+	1999 09 15	658	0.6+	0.3+	1999 10 05	691	0.4+	0.9-
1999 09 05	691	0.5-	0.6-	1999 09 15	658	0.4+	0.6+	1999 10 06	413	0.7+	0.2+
1999 09 05	691	0.6-	0.6-	1999 09 18	691	(1.4-	2.3+)	1999 10 06	413	0.1+	0.1-
1999 09 05	691	0.4-	0.6-	1999 09 18	691	(0.3+	2.5+)	1999 10 07	413	0.1+	0.1-
1999 09 10	691	0.3-	0.8+	1999 09 20	658	0.1+	1.0+	1999 10 07	413	0.0	0.3+
1999 09 10	691	0.1+	0.5+	1999 09 20	658	0.3-	0.4-	1999 10 17	413	0.5-	0.3+
1999 09 10	691	0.2-	0.5+	1999 09 21	658	0.0	0.3-	1999 10 17	413	0.2+	0.8-
1999 09 12	658	0.6-	1.4-	1999 09 21	658	(3.5+	0.6+)				
1999 09 12	658	0.6-	1.3-	1999 09 21	658	0.0	1.2+				

1999 RU₅₉ = 1997 HK₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	348.54160		(2000.0)	P	Q		
<i>n</i>	0.17381319	ω	19.73381	+0.92683682	−0.37543809		
<i>a</i>	3.1799056	Ω	2.33175	+0.32814373	+0.80421596		
<i>e</i>	0.1904573	<i>i</i>	6.27145	+0.18246974	+0.46074172		
<i>P</i>	5.67	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 03 09	809	0.8+	1.1+	1999 08 13	699	0.1-	0.5-	1999 10 15	704	0.1+	0.6+
1997 03 09	809	0.5+	1.2+	1999 08 13	699	0.2-	0.6-	1999 10 15	704	0.2+	0.4+
1997 03 09	809	0.7+	0.2+	1999 08 13	699	0.1-	0.5-	1999 11 05	703	0.7-	1.4-
1997 04 27	691	0.5-	0.7-	1999 09 07	704	0.2-	0.8+	1999 11 05	703	0.1+	0.5+
1997 04 27	691	0.6-	0.7-	1999 09 07	704	1.3+	0.8+	1999 11 05	703	0.3-	0.4+
1997 04 27	691	0.6-	0.5-	1999 09 07	704	0.1-	0.7-	1999 11 05	703	0.1-	0.8+
1999 07 14	704	0.4+	0.1-	1999 09 07	704	0.2-	1.2-	1999 11 06	703	0.1-	0.5-
1999 07 14	704	0.1+	0.4+	1999 09 11	704	0.1+	0.5+	1999 11 06	703	0.2+	1.0-
1999 07 14	704	0.4+	0.2+	1999 09 11	704	0.0	0.1+	1999 11 06	703	0.7-	0.0
1999 07 14	704	0.0	0.2+	1999 09 11	704	0.2+	0.9+	1999 11 06	703	1.2-	0.1+
1999 07 14	704	0.3-	0.4+	1999 09 11	704	0.3+	0.3-	1999 11 10	704	0.7+	0.8-
1999 08 13	703	0.1+	0.5-	1999 09 11	704	0.2+	0.4+	1999 11 10	704	0.2-	0.8+
1999 08 13	703	0.1-	0.5-	1999 10 15	704	0.1+	0.9+	1999 11 10	704	1.0+	0.2+
1999 08 13	703	0.6-	0.4-	1999 10 15	704	0.4+	0.5+				
1999 08 13	703	1.6-	0.6-	1999 10 15	704	0.6+	0.7+				

1999 RJ₁₂₅ = 1990 EJ₄ = 1996 XT₃₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	323.69456		(2000.0)	P	Q		
<i>n</i>	0.26634257	ω	159.48343	+0.15570520	−0.98729163		
<i>a</i>	2.3924470	Ω	281.54838	+0.90170729	+0.15520446		
<i>e</i>	0.1503094	<i>i</i>	1.85988	+0.40333591	+0.03415874		
<i>P</i>	3.70	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 03 02	809	0.8+	0.4-	1999 09 07	704	0.3-	0.5+	1999 10 02	703	0.3+	0.2+
1990 03 02	809	0.4-	0.5+	1999 09 07	704	0.2-	0.5-	1999 10 02	703	0.7-	0.2+
1990 03 02	809	0.1-	0.3-	1999 09 07	704	1.7-	0.6+	1999 10 02	703	0.6+	0.8+

1990 03 04	809	0.4-	0.8+	1999 09 09	704	0.1+	0.5-	1999 10 06	704	0.4+	0.5-
1990 03 04	809	0.1-	0.9-	1999 09 09	704	0.2+	0.5+	1999 10 06	704	0.1+	0.1-
1990 03 04	809	(2.4-	0.8-)	1999 09 09	704	0.1-	0.0	1999 10 06	704	0.2+	0.2-
1996 12 10	327	0.1+	0.1+	1999 09 09	704	0.1+	0.1+	1999 10 06	704	0.1+	0.0
1996 12 10	327	0.6-	0.1+	1999 09 09	704	0.8-	0.4+	1999 10 06	704	0.1+	0.5-
1996 12 10	327	0.3+	0.0	1999 09 14	704	0.6+	0.3+	1999 10 08	704	0.1+	0.2+
1996 12 19	327	0.1+	0.3-	1999 09 14	704	0.0	1.2-	1999 10 08	704	0.6-	0.1-
1996 12 19	327	0.6+	0.1+	1999 09 14	704	0.7+	0.9-	1999 10 08	704	0.3+	0.7-
1996 12 19	327	0.4-	0.1-	1999 09 14	704	0.7+	0.7-	1999 10 08	704	0.2-	0.1+
1999 09 07	704	0.2+	0.9+	1999 09 14	704	0.7+	0.3-				
1999 09 07	704	0.1-	0.2-	1999 10 02	703	0.5-	1.3+				

1999 RM₁₃₀ = 1983 FA = 1988 GS₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	174.74858		(2000.0)	P	Q
n	0.20395669	ω	221.77985	-0.99131335	+0.11814899
a	2.8583194	Ω	324.88028	-0.07726178	-0.87866778
e	0.1247519	i	5.76445	-0.10643527	-0.46258378
P	4.83	H	13.6	G 0.15	U 4

Residuals in seconds of arc

1983 03 16	688	0.8-	2.0-	1999 08 08	699	0.1+	0.3-	1999 09 09	704	0.2+	0.7-
1983 03 16	688	0.6-	0.8-	1999 08 17	691	0.3+	0.7-	1999 09 09	704	0.1+	0.7-
1988 04 12	413	0.5-	1.0+	1999 08 17	691	0.2+	0.5-	1999 09 09	704	0.4-	0.1-
1988 04 12	413	1.0+	0.4+	1999 08 17	691	0.5+	0.6-	1999 09 09	704	0.1-	0.6-
1998 06 16	704	(2.3+	1.3+)	1999 08 22	703	0.2-	0.0	1999 09 13	704	0.2-	0.1+
1998 06 16	704	0.1-	1.5+	1999 08 22	703	0.3+	0.8-	1999 09 13	704	0.2+	0.3-
1998 06 16	704	0.3+	1.4+	1999 08 22	703	0.3+	0.1+	1999 09 13	704	0.4+	0.1+
1998 06 16	704	(3.5+	4.7+)	1999 08 22	703	1.0-	0.7+	1999 09 13	704	0.1+	0.8-
1998 06 18	704	0.2+	1.4-	1999 09 07	704	0.3+	0.4+	1999 09 13	704	0.6+	0.1+
1998 06 18	704	1.0-	0.6-	1999 09 07	704	0.5-	0.5+	1999 09 30	704	0.1-	0.2+
1998 06 18	704	0.7+	0.7-	1999 09 07	704	0.6+	0.8+	1999 09 30	704	0.3-	0.3+
1998 06 18	704	(5.9-	1.4-)	1999 09 07	704	0.3-	0.0	1999 09 30	704	1.0+	1.0+
1999 08 08	699	0.5-	0.6-	1999 09 07	704	0.2-	0.2+				
1999 08 08	699	0.1+	0.6+	1999 09 09	704	0.3-	0.5-				

1999 RN₂₀₀ = 1998 KS₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	324.78357		(2000.0)	P	Q
n	0.27989921	ω	205.71728	+0.10847643	-0.98002362
a	2.3145591	Ω	238.46671	+0.94249569	+0.15471249
e	0.0537520	i	11.27813	+0.31612456	-0.12497097
P	3.52	H	14.8	G 0.15	U 4

Residuals in seconds of arc

1998 04 22	704	1.2+	0.6+	1999 09 06	703	0.2-	1.1+	1999 10 03	704	0.3+	1.3-
1998 04 22	704	0.8-	0.6-	1999 09 06	703	0.9-	0.0	1999 10 03	704	0.3-	0.7-
1998 04 22	704	0.5+	1.3-	1999 09 06	703	0.7-	0.7-	1999 10 03	704	0.4-	0.6-
1998 04 22	704	(2.5+	1.1+)	1999 09 06	703	(3.5-	3.8-)	1999 10 03	704	0.1+	0.8-
1998 04 22	704	1.0-	0.7+	1999 09 08	704	0.1-	0.2-	1999 10 03	704	0.0	0.3-
1998 05 22	704	0.9-	1.0+	1999 09 08	704	0.2+	0.2-	1999 10 20	704	1.0+	0.7+
1998 05 22	704	0.4+	0.7-	1999 09 08	704	0.2+	0.7+	1999 10 20	704	0.0	0.4+
1998 05 22	704	1.6-	0.1-	1999 09 08	704	0.2+	0.2+	1999 10 20	704	0.3+	0.7+
1998 05 22	704	0.7+	0.6+	1999 09 08	704	0.4+	1.1+	1999 10 20	704	1.4+	1.5+
1998 05 22	704	0.1-	0.5+	1999 09 18	704	0.3+	0.1-	1999 10 20	704	0.4+	0.6+
1998 05 24	704	1.1+	1.1-	1999 09 18	704	0.5+	0.3+	1999 11 10	703	0.8-	0.4-
1998 05 24	704	0.1-	0.3+	1999 09 18	704	0.2+	0.0	1999 11 10	703	0.1+	0.5-
1998 05 24	704	0.6-	1.0-	1999 09 18	704	0.3+	0.1+	1999 11 10	703	0.2+	0.8-
1998 05 24	704	1.1+	0.1+	1999 09 18	704	0.3+	0.0	1999 11 10	703	0.0	0.5-
1999 07 22	704	0.6-	0.3-	1999 10 02	703	1.0-	0.4-	1999 12 05	704	1.1+	1.0-
1999 07 22	704	0.0	0.9+	1999 10 02	703	0.6-	0.1+	1999 12 05	704	0.8-	0.5+
1999 07 22	704	0.2+	0.1-	1999 10 02	703	0.5-	0.1-	1999 12 05	704	0.3-	0.4-
1999 07 22	704	0.3+	0.0	1999 10 02	703	0.3-	0.3-				

1999 RT₂₁₃ = 1995 UH₃₅ = 1998 HK₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21659498	ω	190.76906	+0.94440063	+0.32744324		
<i>a</i>	2.7460206	Ω	150.06419	-0.29705228	+0.88856867		
<i>e</i>	0.0876413	<i>i</i>	3.42416	-0.14095176	+0.32128903		
<i>P</i>	4.55	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 10 21	691	0.4+	0.3+	1998 04 21	704	1.6-	1.4-	1999 09 13	691	0.2-	0.4-
1995 10 21	691	0.2+	0.4+	1998 04 21	704	0.1+	1.2+	1999 09 19	691	0.0	0.1-
1995 10 21	691	0.2+	0.0	1998 04 21	704	(3.2-	0.1+)	1999 09 19	691	0.2-	0.5-
1995 10 26	691	0.0	0.0	1998 04 22	704	0.4-	0.8-	1999 09 19	691	0.1-	0.2-
1995 10 26	691	0.8-	0.3-	1998 04 22	704	0.6+	0.4+	1999 10 13	691	0.3+	0.0
1995 10 26	691	0.2-	0.2-	1998 04 22	704	1.6+	0.7-	1999 10 13	691	0.2-	0.1+
1998 04 21	704	1.1-	1.4+	1999 09 13	691	0.3-	0.2-	1999 10 13	691	0.0	0.1-
1998 04 21	704	0.8+	0.1+	1999 09 13	691	0.7+	1.3+				

1999 SU₁ = 1990 TL₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21941106	ω	29.49194	+0.92284082	-0.38425657		
<i>a</i>	2.7224738	Ω	352.94730	+0.29694875	+0.75385197		
<i>e</i>	0.1392593	<i>i</i>	12.54911	+0.24532887	+0.53296725		
<i>P</i>	4.49	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 10 13	095(31.0-	23.3-)	1999 10 10	681	0.2+	0.2-	1999 11 04	704	0.5+	1.0+	
1990 10 13	095(33.4-	24.9-)	1999 10 10	681	0.4+	0.2-	1999 11 04	704	0.5+	0.9+	
1992 02 24	691	0.1-	0.0	1999 10 12	704	0.1+	0.1+	1999 11 04	704	0.9+	1.2+
1992 02 24	691	0.2+	0.2+	1999 10 12	704	0.1-	0.2+	1999 11 10	703	0.7-	0.6-
1992 02 24	691	0.1+	0.0	1999 10 12	704	0.2+	0.5+	1999 11 10	703	0.3-	0.0
1999 09 21	681	0.2-	0.4-	1999 10 12	704	0.3-	0.7+	1999 11 10	703	0.0	0.5-
1999 09 21	681	0.0	0.4-	1999 10 12	704	0.1-	1.1+	1999 11 10	703	0.2+	0.4-
1999 09 21	681	0.3-	0.1+	1999 10 13	704	0.5-	0.3-	1999 11 10	703	0.4+	0.3-
1999 09 21	681	0.1+	0.2-	1999 10 13	704	0.4-	0.5-	1999 11 10	703	0.1-	0.3+
1999 09 22	681	0.3+	0.2-	1999 10 13	704	0.5-	0.6-	1999 11 10	703	0.2-	0.1-
1999 09 22	681	0.1-	0.5-	1999 10 13	704	0.3-	0.8-	1999 11 10	703	0.3-	0.0
1999 09 27	848	0.3-	0.0	1999 10 13	704	0.5-	1.1-	1999 12 05	699	0.1-	0.1-
1999 09 27	848	0.3-	0.3-	1999 10 13	611	0.5+	0.3-	1999 12 05	699	0.1-	0.0
1999 09 27	848	0.1-	0.7+	1999 10 13	611	0.5-	0.1-	1999 12 05	699	0.7-	0.1+
1999 09 28	848	0.4+	0.1-	1999 10 19	699	0.2-	0.0	2000 01 03	704	0.2-	0.4+
1999 09 28	848	0.1-	0.2-	1999 10 19	699	0.6-	0.1-	2000 01 03	704	0.6+	0.5-
1999 09 28	848	0.3+	0.0	1999 10 19	699	0.0	0.0	2000 01 03	704	0.8+	0.3-
1999 10 04	699	0.2+	0.1+	1999 10 28	703	0.3-	0.2-	2000 01 03	704	0.4+	0.0
1999 10 04	699	0.5+	0.3+	1999 10 28	703	0.1-	0.1-	2000 01 07	699	0.7-	0.1+
1999 10 04	699	0.2+	0.1+	1999 10 28	703	0.5-	0.2+	2000 01 07	699	0.6-	0.1-
1999 10 05	704	0.7+	0.1-	1999 10 28	703	0.1+	0.1-	2000 01 07	699	0.7-	0.5+
1999 10 05	704	0.7+	0.4+	1999 11 03	704	0.1-	0.0	2000 01 31	704	0.6+	0.5-
1999 10 05	704	0.6+	0.5+	1999 11 03	704	0.6-	0.1+	2000 01 31	704	0.3+	0.0
1999 10 05	704	0.6+	0.5+	1999 11 03	704	0.1-	0.3-	2000 01 31	704	0.0	0.3-
1999 10 05	704	0.8+	0.3+	1999 11 03	704	0.0	0.0	2000 01 31	704	0.0	0.4-
1999 10 09	681	0.2-	0.1-	1999 11 03	704	0.2-	0.4-	2000 01 31	704	0.1-	0.7-
1999 10 09	681	0.2-	0.1-	1999 11 04	704	0.1+	0.6+				
1999 10 09	681	0.0	0.1-	1999 11 04	704	0.3+	0.8+				

1999 TN₂₂ = 1998 HG₄₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26916790	ω	186.88549	-0.56046725	+0.82708698		
<i>a</i>	2.3756760	Ω	49.03630	-0.75713000	-0.49093218		
<i>e</i>	0.1596036	<i>i</i>	3.22405	-0.33560487	-0.27370188		
<i>P</i>	3.66	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 03 25	704	0.1-	0.8-	1998 04 20	704	0.6-	0.4-	1998 04 22	704	(0.1+	2.2+)
1998 03 25	704	0.2-	0.9+	1998 04 20	704	0.8-	1.0-	1998 04 22	704	0.9-	0.6-
1998 03 25	704	1.6+	2.0-	1998 04 20	704	1.2-	0.1+	1998 04 22	704	0.5+	0.3+
1998 03 25	704	0.3+	0.3-	1998 04 20	704	0.8+	1.1+	1998 04 22	704	0.4-	0.1+
1998 03 25	704	1.4+	1.2+	1998 04 20	704	(2.1-	0.2+)	1999 10 03	691	0.1-	0.1+
1998 03 29	704	1.9-	0.5-	1998 04 21	704	0.8+	1.1-	1999 10 03	691	0.1+	0.1+
1998 03 29	704	0.3+	0.3-	1998 04 21	704	0.9+	0.1-	1999 10 03	691	0.1-	0.0
1998 03 29	704	0.8-	0.5+	1998 04 21	704	0.4+	1.0-	1999 10 06	691	0.1-	0.0
1998 03 29	704	0.1-	1.0+	1998 04 21	704	0.0	1.2+	1999 10 06	691	0.3+	0.1+
1998 03 29	704	0.6-	0.7+	1998 04 22	704	1.0+	1.1+	1999 10 06	691	0.1-	0.1-

1999 TU₂₉ = 1992 EG₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20327105	ω	295.71035	+0.30485094	+0.95239282		
<i>a</i>	2.8647432	Ω	352.03614	-0.86391368	+0.27488273		
<i>e</i>	0.0317690	<i>i</i>	1.53728	-0.40089780	+0.13186129		
<i>P</i>	4.85	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 02 24	691	0.4-	0.2-	1999 09 30	703	0.7-	0.2-	1999 10 06	704	0.1-	0.3-
1992 02 24	691	0.9-	0.1-	1999 10 02	699	1.4+	1.3+	1999 10 06	704	0.2-	0.2-
1992 02 24	691	1.9+	0.6-	1999 10 02	699	0.8+	1.2+	1999 10 06	704	0.1-	0.4-
1992 02 25	675	(3.2-	0.3-)	1999 10 02	699	0.3-	0.9+	1999 10 06	704	0.5-	0.6-
1992 03 02	809	1.4-	1.0+	1999 10 04	704	0.5+	0.2-	1999 10 06	704	0.1-	0.4-
1992 03 04	809	0.8+	0.1+	1999 10 04	704	0.4+	0.2+	1999 11 09	704	0.9+	0.2+
1999 09 30	703	0.2+	0.1+	1999 10 04	704	0.6+	0.4-	1999 11 09	704	0.1-	0.1+
1999 09 30	703	0.2-	0.7+	1999 10 04	704	1.5-	1.6-	1999 11 09	704	0.6-	0.5-
1999 09 30	703	1.1-	1.2+	1999 10 04	704	0.4+	0.8-				

1999 TA₃₁ = 1953 VS₂ = 1953 XP₁ = 1985 VF₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27733743	ω	209.23144	+0.31924854	-0.94688429		
<i>a</i>	2.3287903	Ω	222.18387	+0.88025748	+0.31138285		
<i>e</i>	0.1587786	<i>i</i>	3.29591	+0.35103724	+0.08031727		
<i>P</i>	3.55	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1953 11 09	024	1.2+	2.2-	1999 10 09	704	0.1+	0.3+	1999 11 29	691	0.4-	0.2+
1953 12 08	024	1.5-	0.2-	1999 10 09	704	0.2+	0.2+	1999 11 29	691	0.2-	0.2+
1985 11 10	095	2.1+	0.7-	1999 10 09	704	0.3+	0.0	1999 12 03	691	0.4+	0.3-
1997 03 31	704	0.4+	1.1-	1999 10 09	704	0.2+	0.2+	1999 12 03	691	0.5+	0.4-
1997 03 31	704	0.1+	1.6+	1999 10 09	704	0.0	0.3+	1999 12 03	691	0.3+	0.2-
1997 04 01	704	1.2-	1.1+	1999 10 13	699	0.2+	0.2-	1999 12 03	704	(2.5-	3.5+)
1997 04 01	704	0.5+	1.6+	1999 10 13	699	0.3-	0.0	1999 12 03	704	1.0+	0.5-
1998 06 01	809	0.6+	1.4+	1999 10 13	699	0.4-	0.4+	1999 12 03	704	0.9+	1.3-
1998 06 01	809	1.1+	0.9+	1999 10 15	704	0.5+	0.4-	1999 12 07	704	0.7-	1.0+
1998 06 01	809	0.9-	0.3+	1999 10 15	704	0.5+	0.5-	1999 12 07	704	0.5-	0.7+
1999 09 18	703	0.2-	0.2+	1999 10 15	704	0.3+	0.4-	1999 12 07	704	0.3-	0.6+
1999 09 18	703	0.5-	0.5-	1999 10 15	704	0.3+	0.6-	1999 12 07	704	0.4-	0.6+
1999 09 18	703	0.5-	0.0	1999 10 19	704	0.5+	0.0	1999 12 07	704	0.5-	0.6+
1999 09 18	703	0.5-	0.4-	1999 10 19	704	0.5-	0.1-	1999 12 08	691	0.2-	1.0-
1999 10 01	703	0.5-	0.6+	1999 10 19	704	0.0	0.1-	1999 12 08	691	0.3-	0.4-
1999 10 01	703	0.4-	0.0	1999 10 19	704	0.2-	0.0	1999 12 08	691	0.0	0.5-
1999 10 01	703	0.4-	0.2+	1999 10 19	704	0.2-	0.0	1999 12 08	704	0.5-	0.9+
1999 10 01	703	0.9-	0.2+	1999 10 28	699	0.0	0.3+	1999 12 08	704	0.0	0.7+

2000 APR. 18

M.P.C. 40079

1999 10 04	704	0.1+	0.3-	1999 10 28	699	0.3+	1.0+	1999 12 08	704	0.4-	0.2+
1999 10 04	704	0.2+	0.5-	1999 10 28	699	0.8-	0.5+	1999 12 08	704	0.7-	0.5+
1999 10 04	704	0.6+	0.5-	1999 10 30	703	0.3+	0.2-	1999 12 08	704	0.1+	0.7+
1999 10 04	704	0.7+	0.4-	1999 10 30	703	0.5-	0.1-	1999 12 26	327	(2.1-	0.4+)
1999 10 04	704	0.4+	0.1-	1999 10 30	703	0.1+	0.6+	1999 12 26	327	0.7-	0.4+
1999 10 06	704	0.3+	0.0	1999 10 30	703	0.3+	0.1+	1999 12 26	327	0.3-	0.9-
1999 10 06	704	0.2+	0.2-	1999 11 05	704	0.1-	0.1+	1999 12 27	327	0.0	0.8+
1999 10 06	704	0.3+	0.1+	1999 11 05	704	0.0	0.1-	1999 12 27	327	0.5-	0.2+
1999 10 06	704	0.3+	0.1+	1999 11 05	704	0.4-	0.3+	1999 12 27	327	0.2-	0.6+
1999 10 06	704	0.5+	0.2+	1999 11 05	704	0.1-	0.0	2000 01 08	704	0.1+	0.1-
1999 10 07	704	0.5+	0.1-	1999 11 05	704	0.3-	0.3+	2000 01 08	704	0.0	0.3+
1999 10 07	704	0.2+	0.7+	1999 11 27	699	0.1-	0.3+	2000 01 08	704	0.5+	0.4+
1999 10 07	704	0.2-	0.6+	1999 11 27	699	0.4-	0.8+	2000 01 08	704	0.3+	0.3+
1999 10 07	704	0.1+	0.4-	1999 11 27	699	1.2-	0.4+	2000 01 08	704	0.3+	0.1-
1999 10 07	704	0.7-	0.4-	1999 11 29	691	0.4-	0.1+				

1999 TV₃₆ = 1998 FT₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	95.01327	(2000.0)	P		
<i>n</i>	0.31090661	ω	28.81394	+0.75728793	+0.64883438
<i>a</i>	2.1579899	Ω	290.53693	-0.61338342	+0.66754087
<i>e</i>	0.2024748	<i>i</i>	4.55426	-0.22422258	+0.36524395
<i>P</i>	3.17	<i>H</i>	15.7	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 03 24	704	0.6+	0.4+	1999 10 15	699	0.4+	0.3+	1999 11 03	704	0.2-	0.6-
1998 03 24	704	0.8+	0.3-	1999 10 15	699	0.1+	0.7+	1999 11 03	704	0.5-	0.1-
1998 03 24	704	0.4+	1.4-	1999 10 15	699	0.1-	0.4+	1999 11 03	704	0.8-	0.0
1998 03 24	704	0.4+	0.9-	1999 10 21	699	0.5+	0.9-	1999 12 04	703	1.8-	0.9-
1998 03 24	704	(4.0-	1.2+)	1999 10 21	699	1.7+	0.1+	1999 12 04	703	0.1-	0.9-
1998 03 25	704	1.4-	0.2-	1999 10 21	699	0.2-	0.5+	1999 12 04	703	0.4-	0.3+
1998 03 25	704	0.4+	1.3+	1999 10 30	699	0.8-	1.2-	1999 12 04	703	0.2-	0.2-
1998 03 25	704	0.3-	0.3-	1999 10 30	699	0.0	0.4-	1999 12 08	704	0.5-	0.3-
1998 03 25	704	1.1-	1.2+	1999 10 30	699	1.3+	0.3+	1999 12 08	704	0.5+	0.1-
1999 10 05	704	0.8+	0.1+	1999 11 01	699	1.6-	0.2+	1999 12 08	704	0.5+	0.0
1999 10 05	704	0.5-	0.5-	1999 11 01	699	0.2+	0.3+	1999 12 08	704	0.4+	1.6+
1999 10 05	704	0.3+	0.1-	1999 11 01	699	0.0	0.6-	1999 12 08	704	1.9+	1.0+
1999 10 05	704	0.0	0.1+	1999 11 03	704	0.3-	0.5+				
1999 10 05	704	0.2-	0.1-	1999 11 03	704	0.2-	0.4+				

1999 UB₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	28.10510	(2000.0)	P		
<i>n</i>	0.24070063	ω	346.01797	+0.81007085	-0.58240764
<i>a</i>	2.5594770	Ω	49.80809	+0.54611082	+0.70740883
<i>e</i>	0.0829863	<i>i</i>	5.08637	+0.21342025	+0.40046733
<i>P</i>	4.09	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1995 10 15	327	0.0	0.3+	1999 10 20	704	1.2+	0.6-	1999 11 05	704	0.2+	0.3+
1995 10 15	327	0.2+	0.3+	1999 10 20	704	0.0	0.1-	1999 11 05	704	0.7-	0.4-
1995 10 15	327	0.4-	0.3+	1999 10 20	704	0.9+	0.6-	1999 11 05	704	0.4+	0.4-
1995 10 28	327	0.0	0.4-	1999 10 29	703	0.9-	0.0	1999 11 09	704	0.0	0.1-
1995 10 28	327	0.4+	0.6+	1999 10 29	703	0.9-	0.5+	1999 11 09	704	0.4+	0.2-
1995 10 28	327	0.4-	0.4-	1999 10 29	703	0.6+	0.5+	1999 11 09	704	0.0	0.2-
1999 10 10	704	0.5-	0.3-	1999 10 29	703	0.7-	0.2+	1999 11 09	704	0.2+	0.1-
1999 10 10	704	0.3-	0.1+	1999 11 03	703	0.6-	0.4+	1999 11 09	704	1.0+	0.6-
1999 10 10	704	0.7-	0.3+	1999 11 03	703	(2.1-	0.5+)	1999 11 12	704	0.2-	0.2-
1999 10 10	704	0.2-	0.1+	1999 11 03	703	0.4-	0.1-	1999 11 12	704	0.8+	0.2+
1999 10 10	704	0.7-	0.7-	1999 11 03	699	0.5-	0.0	1999 11 12	704	0.1+	0.1+
1999 10 15	704	0.3-	0.2-	1999 11 03	703	(2.1-	0.8-)	1999 11 12	704	0.6+	0.1+
1999 10 15	704	0.0	0.7+	1999 11 03	699	1.8-	0.3-	1999 11 12	704	0.9+	0.0
1999 10 15	704	0.3+	0.5+	1999 11 03	699	0.6+	0.7+	1999 11 17	704	0.1+	0.6+
1999 10 15	704	0.6+	0.1+	1999 11 05	704	0.7+	0.3-	1999 11 17	704	0.3+	0.7+
1999 10 20	704	1.0+	0.1-	1999 11 05	704	0.1+	0.7-	1999 11 17	704	1.4-	0.4-

1999 UG₁₅ = 1991 JU₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	250.87315	(2000.0)	P		
<i>n</i>	0.17542932	ω	328.30613	-0.98627417	-0.08219941
<i>a</i>	3.1603458	Ω	208.06987	+0.10141808	-0.98597584
<i>e</i>	0.1356931	<i>i</i>	17.71774	-0.13029822	-0.14524086
<i>P</i>	5.62	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1991 05 13	809	0.8-	1.8+	1999 10 20	704	0.2-	0.3+	1999 11 03	703	0.4-	0.2+
1991 05 13	809	0.1-	0.2-	1999 10 20	704	0.1-	0.2-	1999 11 05	704	0.1-	0.5-
1991 05 13	809	1.0-	1.1-	1999 10 20	704	0.4+	0.9-	1999 11 05	704	0.2-	0.0
1991 05 17	809	1.2+	0.3+	1999 10 20	704	0.0	0.7+	1999 11 05	704	0.3-	0.6+
1991 05 17	809	0.0	0.4-	1999 10 29	703	1.3-	0.4+	1999 11 05	704	0.1-	0.1-
1991 05 17	809	0.6+	0.4-	1999 10 29	703	1.1-	0.2-	1999 11 15	704	0.3+	0.2-
1999 10 10	704	1.3+	0.3-	1999 10 29	703	(3.0-	0.3+)	1999 11 15	704	0.8+	0.3-
1999 10 10	704	0.0	0.1-	1999 10 29	703	0.6-	0.1+	1999 11 15	704	0.4+	0.5-
1999 10 10	704	0.8+	0.2+	1999 11 03	703	0.4-	1.0+	1999 11 15	704	0.4+	0.6-
1999 10 10	704	0.3+	1.0-	1999 11 03	703	0.2-	0.1-	1999 11 15	704	0.7+	0.4-
1999 10 10	704	0.2+	0.2+	1999 11 03	703	0.3-	1.6+				

1999 UZ₃₆ = 1995 US₃₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	76.11277	(2000.0)	P		
<i>n</i>	0.23402279	ω	117.45794	+0.62421735	+0.78124848
<i>a</i>	2.6079381	Ω	191.16742	-0.72015347	+0.57446979
<i>e</i>	0.1276216	<i>i</i>	0.55406	-0.30287239	+0.24420333
<i>P</i>	4.21	<i>H</i>	16.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1995 10 22	691	0.2+	1.1-	1998 04 22	704	1.0+	0.1-	1999 09 14	703	0.2+	0.7+
1995 10 22	691	0.4+	1.1-	1998 04 22	704	1.4-	1.1-	1999 10 16	691	0.1-	0.3-
1995 10 22	691	0.6+	0.7-	1999 09 14	704	0.0	0.2+	1999 10 16	691	0.0	0.4-
1995 10 28	691	0.3+	0.5-	1999 09 14	704	1.0+	0.7-	1999 10 16	691	0.0	0.6-
1995 10 28	691	0.1+	0.4-	1999 09 14	704	1.4+	0.3+	1999 10 18	691	0.0	0.4-
1995 10 28	691	0.0	0.6-	1999 09 14	703	1.6-	0.3+	1999 10 18	691	0.2+	0.1-
1998 04 22	704	0.2-	1.7-	1999 09 14	703	0.5-	0.5-	1999 10 18	691	0.6-	0.6+
1998 04 22	704	0.8-	1.4-	1999 09 14	703	0.2-	1.2+				

1999 VE₁₂ = 1991 HL₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams		Q	
<i>M</i>	331.47711	(2000.0)	P		
<i>n</i>	0.18475603	ω	71.23743	-0.17494806	-0.98110672
<i>a</i>	3.0530715	Ω	29.22622	+0.82758012	-0.19198209
<i>e</i>	0.0459783	<i>i</i>	9.73972	+0.53338946	-0.02392652
<i>P</i>	5.33	<i>H</i>	12.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 04 19	809	0.0	0.6+	1999 10 13	704	0.4+	0.0	1999 11 14	704	0.0	0.3+
1991 04 19	809	0.4+	0.2-	1999 10 13	704	0.6+	0.3+	1999 11 14	704	0.0	0.4+
1991 04 19	809	0.2-	1.0+	1999 10 13	704	0.5+	0.5+	1999 11 14	704	0.0	0.5+
1991 04 19	809	0.0	0.7-	1999 10 15	704	0.7+	0.3-	1999 11 14	704	0.1-	0.5+
1991 04 19	809	(2.4-	0.4-)	1999 10 15	704	0.8+	0.9-	1999 11 14	704	0.0	0.6+
1991 04 19	809	0.1-	0.7-	1999 10 15	704	0.3+	0.7-	1999 11 16	704	0.1-	0.7-
1996 06 06	327	0.6+	0.4-	1999 10 15	704	0.3+	0.4-	1999 11 16	704	0.3+	0.4-
1996 06 06	327	0.8-	0.1-	1999 10 15	704	0.3+	0.5-	1999 11 16	704	0.3+	0.4-
1996 06 06	327	0.5-	0.3-	1999 10 22	704	0.3+	0.7-	1999 11 16	704	0.2+	0.9-
1999 10 03	704	1.0+	0.3-	1999 10 22	704	0.4+	0.4-	1999 11 17	678	1.7-	0.3-
1999 10 03	704	0.3+	0.1-	1999 10 22	704	0.4+	0.4-	1999 11 17	678	1.0-	0.0
1999 10 03	704	0.0	0.1+	1999 10 22	704	0.1+	0.1-	1999 11 28	678	1.8-	0.3+
1999 10 03	704	1.7+	0.9+	1999 10 22	704	0.2+	0.2-	1999 11 28	678	1.2-	0.1-

1999 10 03	704	0.8−	0.3+	1999 10 29	703	0.2−	0.1−	1999 12 05	703	0.4+	0.1+
1999 10 03	703	0.1+	0.0	1999 10 29	703	0.0	0.6−	1999 12 05	703	0.1+	0.1−
1999 10 03	703	0.3−	0.5+	1999 10 29	703	0.2−	0.2+	1999 12 05	703	0.2−	0.1−
1999 10 03	703	0.3+	0.4+	1999 10 29	703	0.1+	0.2−	1999 12 05	703	0.4−	0.0
1999 10 03	703	0.4+	0.1+	1999 11 03	704	0.0	0.2+	1999 12 07	699	0.1−	0.3+
1999 10 07	704	1.5+	0.7−	1999 11 03	704	0.0	0.0	1999 12 07	699	0.1−	0.4+
1999 10 07	704	1.0+	0.7−	1999 11 03	699	0.0	0.1+	1999 12 07	699	0.1−	0.1+
1999 10 07	704	0.1+	0.2+	1999 11 03	704	0.3−	0.3+	1999 12 08	704	0.0	0.0
1999 10 07	704	1.0−	0.0	1999 11 03	704	0.2+	0.1+	1999 12 08	704	0.2+	0.4−
1999 10 10	699	0.2−	0.6+	1999 11 03	699	0.1−	0.4+	1999 12 08	704	0.3+	0.5−
1999 10 10	699	0.3−	0.2+	1999 11 03	704	0.3+	0.2−	1999 12 08	704	0.3−	0.7−
1999 10 10	699	0.6−	0.5+	1999 11 03	699	0.6+	1.1+	1999 12 08	704	1.1−	0.4−
1999 10 12	704	0.4+	0.2−	1999 11 09	699	0.1−	0.7+	1999 12 13	703	0.2+	0.0
1999 10 12	704	0.1+	0.0	1999 11 09	699	0.0	0.4+	1999 12 13	703	0.0	0.3+
1999 10 12	704	0.2−	0.3−	1999 11 09	699	0.0	0.2+	1999 12 13	703	0.0	0.2+
1999 10 12	704	0.1+	0.2−	1999 11 10	678	0.1−	0.6+	1999 12 13	703	0.2−	0.1+
1999 10 12	704	0.0	0.1+	1999 11 10	678	1.0−	0.5+	1999 12 15	704	0.3+	0.2−
1999 10 13	704	0.2+	0.3−	1999 11 11	678	0.2−	0.2+	1999 12 15	704	0.2+	0.4−
1999 10 13	704	0.3+	0.0	1999 11 11	678	1.4−	0.5+	1999 12 15	704	0.1−	0.9−

1999 VB₁₀₃ = 1997 GW₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Doppler		
<i>M</i>	82.90432	(2000.0)	P	Q	
<i>n</i>	0.21902185	ω	300.60899	+0.96893420	+0.24516120
<i>a</i>	2.7256981	Ω	45.22218	−0.20827360	+0.87992330
<i>e</i>	0.0393267	<i>i</i>	2.63196	−0.13337404	+0.40697786
<i>P</i>	4.50	<i>H</i>	15.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1997 04 03	704	0.2+	0.3−	1999 11 09	704	0.5−	0.3+	1999 11 12	704	0.4+	0.1+
1997 04 03	704	1.3−	0.4+	1999 11 09	704	0.1−	0.2+	1999 11 15	691	0.3−	0.4−
1997 04 07	704	0.4+	0.8+	1999 11 12	704	0.4+	0.3−	1999 11 15	691	0.4−	0.4−
1997 04 07	704	0.7+	0.9−	1999 11 12	704	0.1+	0.2−	1999 11 15	691	0.4−	0.4−
1999 11 09	704	0.1+	0.3−	1999 11 12	704	0.1−	0.4+				
1999 11 09	704	0.8+	0.5+	1999 11 12	704	0.1−	0.5+				

1999 VS₁₁₂ = 1998 KJ₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Marsden		
<i>M</i>	187.39292	(2000.0)	P	Q	
<i>n</i>	0.31323345	ω	202.63646	−0.06128062	+0.99216868
<i>a</i>	2.1472896	Ω	63.99634	−0.89621884	−0.00669632
<i>e</i>	0.2071184	<i>i</i>	6.95551	−0.43935917	−0.12472560
<i>P</i>	3.15	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 05 22	704	0.4+	0.0	1998 05 24	704	1.1−	0.1−	1999 11 09	704	0.3+	0.2+
1998 05 22	704	0.3+	0.4+	1998 06 03	704	0.7+	0.2−	1999 11 12	704	1.4+	0.1−
1998 05 22	704	0.2−	0.2+	1998 06 03	704	1.0+	0.5+	1999 11 12	704	0.4−	0.5+
1998 05 22	704	0.2+	0.6−	1998 06 03	704	(3.6+ 1.2+)		1999 11 12	704	0.2+	0.2−
1998 05 22	704	0.2+	0.1−	1998 06 03	704	0.7−	0.4+	1999 12 07	704	0.1+	0.2−
1998 05 24	704	0.9−	1.8+	1999 11 09	704	0.4−	0.3+	1999 12 07	704	0.6+	0.5−
1998 05 24	704	1.6+	2.5−	1999 11 09	704	0.3−	0.1−	1999 12 07	704	0.7−	0.4+
1998 05 24	704	0.5−	0.3+	1999 11 09	704	0.1−	0.2−	1999 12 07	704	0.0	0.3+
1998 05 24	704	0.8−	0.6+	1999 11 09	704	0.1−	0.2+	1999 12 07	704	0.8−	0.4+

1999 VH₁₁₄ = 1992 EQ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	46.64497	(2000.0)	P	Q	
<i>n</i>	0.21129012	ω	357.22494	+0.99879184	−0.03997995
<i>a</i>	2.7917932	Ω	5.32461	+0.04889139	+0.74990511
<i>e</i>	0.1496458	<i>i</i>	17.93348	+0.00494862	+0.66033622
<i>P</i>	4.66	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1992 03 01	809	0.8−	0.2+	1999 11 03	704	0.6+	0.2+	1999 11 09	699	0.1+	1.0+
1992 03 04	809	0.8+	0.3−	1999 11 03	704	0.6+	0.1−	1999 11 09	699	0.0	0.4−
1999 10 28	703	0.6−	0.3+	1999 11 03	704	0.7+	0.3−	1999 11 09	699	0.4−	0.2+
1999 10 28	703	0.4−	0.1−	1999 11 03	704	0.9+	0.2−	1999 11 11	703	0.0	0.1+
1999 10 28	703	0.5−	0.3+	1999 11 03	704	0.8+	0.6−	1999 11 11	703	0.4+	0.5+
1999 10 28	703	0.1−	0.2−	1999 11 09	703	0.6−	0.2+	1999 11 11	703	0.5−	0.0
1999 11 03	699	0.0	0.6−	1999 11 09	703	0.4−	0.1−	1999 11 11	703	0.3−	0.1−
1999 11 03	699	0.3−	0.7+	1999 11 09	703	0.5−	0.3−				
1999 11 03	699	0.1+	0.5+	1999 11 09	703	0.0	0.9−				

1999 VM₁₁₄ = 1977 RP₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	54.13375	(2000.0)	P	Q	
<i>n</i>	0.18198091	ω	357.72492	+0.98618834	+0.16273792
<i>a</i>	3.0840317	Ω	352.68954	−0.14788176	+0.78140223
<i>e</i>	0.1213411	<i>i</i>	14.00989	−0.07458922	+0.60243417
<i>P</i>	5.42	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1977 09 09	675	0.1−	0.2+	1999 10 28	703	0.3−	0.4−	1999 11 11	703	0.0	0.1−
1977 09 10	675	0.3+	0.4−	1999 10 28	703	0.2−	0.4−	1999 11 11	703	0.3−	0.4+
1999 10 03	704	0.3+	0.6−	1999 11 03	704	0.2+	0.2+	1999 11 11	703	0.3−	0.2−
1999 10 03	704	0.0	0.1−	1999 11 03	704	0.3+	0.2−	2000 01 06	704	0.4−	0.3−
1999 10 03	704	0.7−	0.0	1999 11 03	704	0.9+	0.2+	2000 01 06	704	0.3−	0.7−
1999 10 03	704	0.1−	0.2−	1999 11 03	704	1.0+	0.3+	2000 01 06	704	0.7+	0.1−
1999 10 03	704	0.4+	0.1−	1999 11 03	704	0.9+	0.2+	2000 01 06	704	0.5−	1.8−
1999 10 19	699	0.5−	0.6+	1999 11 09	703	0.1+	0.4+	2000 01 31	704	0.4−	0.7+
1999 10 19	699	0.2+	1.2+	1999 11 09	703	0.4−	0.1+	2000 01 31	704	0.0	0.5+
1999 10 19	699	0.6−	0.4+	1999 11 09	703	0.3−	0.6−	2000 01 31	704	0.5+	0.1+
1999 10 28	703	0.7−	0.5−	1999 11 09	703	0.9+	0.2+	2000 01 31	704	0.3+	0.3+
1999 10 28	703	0.5−	0.8+	1999 11 11	703	0.1−	0.2−				

1999 VR₁₁₄ = 1998 MG₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	333.69892	(2000.0)	P	Q	
<i>n</i>	0.19133215	ω	161.72793	+0.12818884	−0.98184344
<i>a</i>	2.9827080	Ω	280.72595	+0.89124291	+0.17589195
<i>e</i>	0.0378202	<i>i</i>	8.18163	+0.43503299	−0.07103158
<i>P</i>	5.15	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1993 07 22	691	0.2−	0.8−	1999 10 03	699	0.3−	0.3+	1999 11 11	703	0.4−	0.2+
1993 07 22	691	0.4−	0.6−	1999 10 28	703	0.2−	0.1+	1999 11 11	703	0.1+	0.0
1993 07 22	691	1.3+	0.7+	1999 10 28	703	0.3−	0.8+	1999 11 11	703	0.0	0.2−
1995 02 02	691	0.6−	0.4+	1999 10 28	703	0.1+	0.2−	1999 11 11	703	0.0	0.1−
1995 02 02	691	0.2−	0.9+	1999 10 28	703	0.6−	0.2+	1999 11 26	699	0.5−	0.5−
1995 02 02	691	(4.7+ 6.0+)		1999 11 03	699	0.0	0.3+	1999 11 26	699	0.5−	0.4+
1995 11 21	691	0.2+	0.2+	1999 11 03	699	0.3−	0.0	1999 11 26	699	0.4−	0.1+
1995 11 21	691	0.2+	0.3+	1999 11 03	699	0.7−	0.0	1999 12 03	699	0.1+	0.3−
1998 06 23	699	0.0	0.8+	1999 11 03	704	0.3+	0.4+	1999 12 03	699	0.8+	1.0+
1998 06 23	699	0.2−	0.9+	1999 11 03	704	0.5+	0.0	1999 12 03	699	0.3−	0.2+
1998 06 23	699	0.1−	0.8+	1999 11 03	704	0.1+	0.2−	1999 12 08	703	0.2+	0.2−
1998 07 02	699	0.2+	0.2+	1999 11 03	704	0.0	0.0	1999 12 08	703	0.5+	0.4+
1998 07 02	699	0.3−	0.5−	1999 11 03	704	0.3+	0.2−	1999 12 08	703	0.6−	0.4+
1998 07 02	699	0.7−	0.4−	1999 11 09	703	0.1+	0.4−	1999 12 08	703	0.0	0.1+
1999 10 03	704	1.4+	0.5−	1999 11 09	703	0.3−	0.3−	2000 01 06	704	0.1+	0.2−
1999 10 03	704	0.0	0.2+	1999 11 09	703	0.3+	0.5+	2000 01 06	704	0.1+	0.1+
1999 10 03	704	0.3−	0.6−	1999 11 09	703	0.1+	0.3+	2000 01 06	704	0.2−	0.5−
1999 10 03	704	0.7+	0.8−	1999 11 11	703	0.5−	0.5+	2000 01 06	704	0.0	0.8−
1999 10 03	704	0.2+	1.2−	1999 11 11	703	0.0	0.2+	2000 01 06	704	0.6−	1.1−
1999 10 03	699	0.5+	0.1−	1999 11 11	703	0.1−	0.2−				
1999 10 03	699	0.1+	0.7+	1999 11 11	703	0.5+	0.3+				

2000 APR. 18

M.P.C. 40081

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	240.18499	(2000.0)	P		Q	
<i>n</i>	0.17864317	ω	316.84391	-0.98439692	+0.12411826	
<i>a</i>	3.1223274	Ω	230.71227	-0.08199517	-0.95073847	
<i>e</i>	0.0378462	<i>i</i>	9.27387	-0.15569038	-0.28406165	
<i>P</i>	5.52	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 24	704	0.3-	0.7-	1999 10 06	704	0.2+	0.4+	1999 11 14	704	0.3-	0.0
1998 08 24	704	1.4+	1.3+	1999 10 06	704	0.0	0.2+	1999 11 14	704	0.2+	0.5-
1998 08 24	704	0.8-	0.9-	1999 10 13	704	1.0-	1.0+	1999 11 14	704	0.9+	0.4-
1998 08 24	704	1.2+	0.8-	1999 10 13	704	0.2-	0.2-	1999 11 14	704	0.3+	0.7-
1998 08 24	704	(1.6-	3.0-)	1999 10 13	704	0.9-	0.5-	1999 11 14	691	0.6-	0.2+
1998 08 27	704	0.4-	0.7-	1999 11 04	704	0.9+	0.6+	1999 11 14	691	0.6-	0.0
1998 08 27	704	0.0	0.1-	1999 11 04	704	1.3-	1.3-	1999 11 14	691	1.0-	0.5+
1998 08 27	704	0.4+	0.6+	1999 11 04	704	1.5-	0.6-	1999 11 16	704	0.7+	0.3-
1998 08 27	704	1.6-	1.2+	1999 11 09	691	0.4+	0.3+	1999 11 16	704	1.6+	0.9+
1999 10 06	704	1.0+	0.3-	1999 11 09	691	0.4+	0.3-	1999 11 16	704	0.7-	0.4+
1999 10 06	704	0.6+	0.1-	1999 11 09	691	0.3+	0.3+				
1999 10 06	704	0.4+	0.4+	1999 11 14	704	0.1+	0.0				

1999 VG₁₄₅ = 1991 RN₂₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	19.57792	(2000.0)	P		Q	
<i>n</i>	0.24344777	ω	358.05083	+0.98502004	-0.16364169	
<i>a</i>	2.5401860	Ω	11.79529	+0.16159164	+0.76587371	
<i>e</i>	0.1188644	<i>i</i>	15.42725	+0.06019687	+0.62181899	
<i>P</i>	4.05	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1991 09 14	675	0.1+	0.3-	1999 10 04	699	0.5-	1.4-	1999 11 15	704	0.3-	0.1+
1991 09 14	675	0.3-	0.7+	1999 10 04	699	0.3-	1.5-	1999 11 15	704	0.1-	0.0
1991 09 16	675	0.5+	0.5-	1999 10 04	699	0.6+	0.4+	1999 11 15	704	0.4+	0.9-
1991 09 16	675	0.1-	0.1-	1999 11 08	704	0.2+	0.6+	1999 11 15	704	0.6+	0.1+
1999 09 30	704	0.1+	0.1-	1999 11 08	704	0.3-	0.1-	1999 11 27	699	0.3-	0.3+
1999 09 30	704	0.1+	0.1-	1999 11 08	704	0.2-	0.1-	1999 11 27	699	0.9-	0.2+
1999 09 30	704	0.2-	0.6+	1999 11 08	704	1.1+	0.3+	1999 11 27	699	0.2-	0.1-
1999 09 30	704	0.3-	1.8+	1999 11 15	704	0.3+	0.2+				

1999 VJ₁₄₅ = 1994 GX₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.46954	(2000.0)	P		Q	
<i>n</i>	0.28665995	ω	219.93169	+0.47192524	-0.88100860	
<i>a</i>	2.2780227	Ω	201.97098	+0.82992581	+0.45668123	
<i>e</i>	0.2173983	<i>i</i>	5.10989	+0.29750584	+0.12355609	
<i>P</i>	3.44	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1994 04 06	691	0.1+	0.0	1999 10 13	699	(0.3+	2.2-)	1999 11 01	703	0.4+	1.0+
1994 04 06	691	0.6+	0.5+	1999 10 13	699	0.2-	0.8-	1999 11 01	703	0.3+	0.1+
1994 04 06	691	0.7-	0.1+	1999 10 15	704	0.1-	0.3-	1999 11 01	703	0.6-	0.9-
1994 04 07	691	0.2+	0.1-	1999 10 15	704	0.4+	0.4-	1999 11 01	703	0.2+	0.6+
1999 10 06	704	0.5-	0.6+	1999 10 15	704	0.1-	0.0	1999 11 09	704	0.4+	0.1+
1999 10 06	704	0.3-	0.3+	1999 10 15	704	1.0-	0.5-	1999 11 09	704	0.2+	0.3-
1999 10 06	704	0.9-	0.7+	1999 10 15	704	0.9-	0.7-	1999 11 09	704	0.6+	0.8-
1999 10 06	704	0.7+	0.3+	1999 10 16	120	1.3+	0.2-	1999 11 15	704	0.1-	0.1+
1999 10 09	704	0.3+	0.1+	1999 10 16	120	0.5-	0.4+	1999 11 15	704	0.6-	0.0
1999 10 09	704	0.1+	0.4+	1999 10 19	704	0.0	0.4+	1999 11 15	704	0.5-	0.6-
1999 10 09	704	0.2-	0.2-	1999 10 19	704	0.1+	0.6+	1999 11 15	704	0.0	1.0+
1999 10 09	704	0.3+	0.1-	1999 10 19	704	0.2+	0.5+	1999 11 15	704	0.2-	0.1-
1999 10 09	704	0.2-	0.5-	1999 10 19	704	0.6+	0.2+				
1999 10 13	699	0.6+	0.7-	1999 10 19	704	0.1-	0.1+				

1999 VG₁₅₇ = 1991 TB₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	37.27165	(2000.0)	P		Q	
<i>n</i>	0.24465027	ω	133.37301	+0.99765480	-0.03351515	
<i>a</i>	2.5318555	Ω	228.64118	+0.01065205	+0.93731710	
<i>e</i>	0.2075542	<i>i</i>	4.56043	+0.06761245	+0.34686221	
<i>P</i>	4.03	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1991 10 07	033	1.6+	0.6-	1999 09 16	704	0.5+	0.0	1999 11 16	704	0.4-	0.6-
1991 10 07	033	1.5-	0.0	1999 10 04	704	0.3+	0.1+	1999 11 16	704	0.0	1.2-
1991 10 08	033	0.9-	0.2+	1999 10 04	704	0.2+	0.0	1999 11 16	704	0.1+	0.0
1991 10 09	033	0.2+	0.7+	1999 10 04	704	0.5+	0.1-	1999 11 16	704	0.1+	0.4+
1995 11 07	327	0.0	0.2+	1999 10 04	704	0.3+	0.1-	1999 11 28	699	1.1-	0.1-
1995 11 07	327	0.6+	0.4-	1999 10 04	704	0.2-	0.1+	1999 11 28	699	0.1-	0.6-
1995 11 07	327	0.8+	0.1-	1999 10 30	699	1.4-	0.5+	1999 11 28	699	(2.2-	0.4+)
1999 07 23	704	0.2-	0.1+	1999 10 30	699	0.7-	0.3+	1999 12 07	704	0.2-	0.8+
1999 07 23	704	0.8-	0.5-	1999 10 30	699	0.3+	1.1+	1999 12 07	704	0.0	0.9+
1999 07 23	704	0.5-	0.4+	1999 11 14	704	0.2-	0.2-	1999 12 07	704	0.6+	0.7-
1999 07 23	704	0.8+	0.3-	1999 11 14	704	0.4-	0.0	1999 12 07	704	0.2-	0.4+
1999 09 16	704	0.2+	0.2-	1999 11 14	704	0.0	0.6-	1999 12 07	704	0.6+	0.1-
1999 09 16	704	0.3+	0.7+	1999 11 14	704	0.4+	0.3-				
1999 09 16	704	0.1+	0.4-	1999 11 16	704	0.1-	0.0				

1999 VS₁₅₈ = 1978 WQ₅ = 1998 QQ₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	1.76234	(2000.0)	P		Q	
<i>n</i>	0.18504902	ω	181.99229	+0.45324169	-0.88148174	
<i>a</i>	3.0498479	Ω	241.07839	+0.81991166	+0.47059600	
<i>e</i>	0.0282124	<i>i</i>	8.70831	+0.34973823	+0.03910675	
<i>P</i>	5.33	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1978 11 29	675	0.2-	0.5-	1999 10 29	703	0.3-	0.3+	1999 11 14	704	0.3+	0.5-
1978 11 30	675	0.3+	0.1-	1999 10 29	703	0.2-	0.2+	1999 11 16	704	0.4-	0.3-
1998 08 24	704	1.0+	1.3-	1999 10 29	703	0.2-	1.1+	1999 11 16	704	0.9+	0.4-
1998 08 24	704	0.9-	0.2+	1999 10 29	703	0.3+	0.3-	1999 11 16	704	0.1+	0.0
1998 08 24	704	1.6+	1.7+	1999 11 03	704	0.3+	0.2-	1999 11 16	704	0.5+	0.1+
1998 08 24	704	1.8-	1.3+	1999 11 03	704	0.2-	0.0	1999 11 16	704	0.1+	0.1-
1998 08 27	704	0.8-	0.4-	1999 11 03	704	0.1-	0.7-	1999 12 07	704	0.6-	0.2-
1998 08 27	704	0.4+	0.6-	1999 11 03	704	0.4-	0.0	1999 12 07	704	0.9-	0.2-
1998 08 27	704	1.1+	0.0	1999 11 03	704	0.1-	0.6-	1999 12 07	704	0.3+	1.1-
1998 08 27	704	0.5-	1.3-	1999 11 11	703	0.2-	0.0	1999 12 07	704	0.4-	0.6-
1999 10 03	704	0.6+	1.1+	1999 11 11	703	0.1+	0.2+	1999 12 07	704	0.3-	0.4-
1999 10 03	704	1.3+	0.0	1999 11 11	703	1.2-	0.2-	1999 12 12	703	0.1+	0.6+
1999 10 03	704	1.7+	0.4-	1999 11 11	703	0.1+	0.1+	1999 12 12	703	0.9-	1.0+
1999 10 03	704	0.8+	0.8-	1999 11 14	704	0.5+	0.2-	1999 12 12	703	1.6-	0.4-
1999 10 15	699	0.2+	0.2+	1999 11 14	704	0.9+	0.2-	1999 12 12	703	1.0-	0.7+
1999 10 15	699	0.6-	1.2+	1999 11 14	704	0.2+	0.0				
1999 10 15	699	0.2-	1.7+	1999 11 14	704	0.3+	0.2-				

1999 VD₁₆₅ = 1998 MC₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	172.74397	(2000.0)	P		Q	
<i>n</i>	0.25317711	ω	294.38127	-0.22729659	+0.97337749	
<i>a</i>	2.4746840	Ω	322.44239	-0.87499264	-0.21744886	
<i>e</i>	0.1605107	<i>i</i>	2.77756	-0.42746244	-0.07247241	
<i>P</i>	3.89	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 06 24	704	0.7+	0.6-	1999 11 03	704	0.5+	0.1-	1999 11 16	704	0.8-	0.2-
1998 06 24	704	(3.1+	0.1-)	1999 11 03	704	0.3-	0.1-	1999 11 16	704	0.2+	0.5-
1998 06 24	704	1.0-	0.4-	1999 11 03	704	0.0	0.3-	1999 11 16	704	0.2+	1.2-
1998 06 24	704	1.4+	1.1-	1999 11 03	704	0.4+	0.1-	1999 11 16	704	0.0	0.8-
1998 06 24	704	0.2+	0.1-	1999 11 05	699	0.9-	0.3+	1999 11 16	704	0.4-	1.0-

1998 06 26	704	0.3+	0.4−	1999 11 05	699	0.4−	0.4+	1999 12 08	704	1.0−	0.4+
1998 06 26	704	1.0−	0.5−	1999 11 05	699	0.4+	1.7+	1999 12 08	704	0.9−	0.8−
1998 06 26	704	0.5+	0.3+	1999 11 12	699	0.4+	0.7+	1999 12 08	704	0.5+	0.1+
1998 06 26	704	1.2−	1.9+	1999 11 12	699	(0.2−	2.2+)	1999 12 08	704	0.5−	0.8+
1998 06 26	704	0.2−	1.0+	1999 11 12	699	0.4+	1.0−	1999 12 08	704	0.8−	0.7+
1998 07 26	704	0.5−	1.0+	1999 11 14	704	0.1−	0.1−	1999 12 13	703	0.2+	1.1+
1998 07 26	704	1.6+	0.4−	1999 11 14	704	0.1+	0.2−	1999 12 13	703	0.5+	0.5+
1998 07 26	704	0.2+	0.5−	1999 11 14	704	0.7+	0.1+	1999 12 13	703	0.6+	0.8+
1998 07 26	704	1.0−	0.1+	1999 11 14	704	0.1−	0.0	1999 12 13	703	0.0	0.3+
1999 11 03	704	0.8+	1.2−	1999 11 14	704	0.1−	0.1+				

1999 VB₁₆₆ = 1994 VJ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams									
<i>M</i>	67.86011		(2000.0)	P		Q					
<i>n</i>	0.19696092	ω	114.64582	+0.93733110		+0.32062695					
<i>a</i>	2.9256071	Ω	226.97690	−0.34672540		+0.89705818					
<i>e</i>	0.1144288	<i>i</i>	10.75401	+0.03452409		+0.30411344					
<i>P</i>	5.00	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1994 11 05	691	0.1+	0.7+	1999 11 01	699	1.4+	0.0	1999 11 14	704	0.9+	0.3+
1994 11 05	691	0.1−	0.6+	1999 11 04	704	0.5−	0.2−	1999 11 14	704	1.0+	0.7+
1994 11 05	691	0.8−	0.5+	1999 11 04	704	0.2−	0.4−	1999 11 16	704	0.6+	0.9−
1994 11 10	691	0.2+	0.2−	1999 11 04	704	0.1+	0.5+	1999 11 16	704	1.6−	0.9−
1994 11 10	691	0.5+	0.5−	1999 11 04	704	0.3−	0.5+	1999 11 16	704	1.1+	1.3−
1994 11 10	691	0.1+	0.5−	1999 11 04	704	0.3−	1.1+	1999 11 16	704	0.9+	0.9+
1999 10 29	703	0.3+	0.1−	1999 11 11	703	0.9−	0.3−	1999 11 16	704	0.7+	0.7−
1999 10 29	703	0.4−	0.9−	1999 11 11	703	1.3−	0.0	1999 12 07	704	0.4+	0.1−
1999 10 29	703	0.0	0.2+	1999 11 11	703	0.0	0.3+	1999 12 07	704	0.9−	0.6+
1999 10 29	703	0.8−	0.1+	1999 11 11	703	0.2+	0.2−	1999 12 07	704	0.1+	0.3+
1999 11 01	699	0.0	0.8−	1999 11 14	704	0.2+	0.3+	1999 12 07	704	0.2−	0.0
1999 11 01	699	0.2−	0.6+	1999 11 14	704	0.2−	0.2−				

**1999 WQ₉ = 1950 BO₁ = 1976 UX₃ = 1982 BR₆ = 1991 AK₄
= 1991 BR₃**

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams									
<i>M</i>	16.50712		(2000.0)	P		Q					
<i>n</i>	0.21608927	ω	336.25957	+0.11560949		−0.98208264					
<i>a</i>	2.7503033	Ω	106.83126	+0.93441815		+0.05671273					
<i>e</i>	0.2468583	<i>i</i>	8.94482	+0.33689340		+0.17971463					
<i>P</i>	4.56	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2				

Residuals in seconds of arc

1950 01 19	012	0.9+	1.3−	1999 12 06	704	0.1−	0.4+	2000 01 06	704	0.0	0.2−
1976 10 27	095	0.0	1.3−	1999 12 06	704	0.1−	0.8+	2000 01 06	704	(1.4−	2.4+)
1982 01 26	381	0.6+	0.2−	1999 12 06	704	0.1−	0.9+	2000 01 06	704	1.2−	0.4+
1982 01 26	381	1.0−	0.1−	1999 12 06	704	0.2−	1.1+	2000 02 02	704	0.3−	0.2−
1991 01 13	071	1.7−	0.7−	1999 12 10	411	0.4+	0.4+	2000 02 02	704	0.0	0.3+
1991 01 13	071	(2.1−	2.2−)	1999 12 10	411	0.1+	0.0	2000 02 02	704	0.0	0.5+
1991 01 16	071	1.0−	0.9+	1999 12 14	704	0.3−	0.4−	2000 02 02	704	0.1+	0.7+
1991 01 17	071	1.1−	1.2+	1999 12 14	704	0.1+	0.5+	2000 02 02	704	0.0	0.9+
1998 08 17	704	1.1+	1.0+	1999 12 14	704	0.1+	0.6+	2000 02 12	704	(5.9−	0.1−)
1998 08 17	704	(1.6−	3.0+)	1999 12 14	704	0.4−	0.7+	2000 02 12	704	(3.3−	3.3+)
1998 08 17	704	0.2−	0.7+	1999 12 14	704	0.4+	0.6+	2000 02 12	704	(4.8−	4.4+)
1998 08 17	704	(0.2+	2.6+)	1999 12 25	411	0.1−	0.6−	2000 03 04	704	(2.5+	1.0−)
1998 08 17	704	1.3−	0.4+	1999 12 25	411	0.5−	0.8−	2000 03 04	704	(2.1+	0.1+)
1999 10 21	704	0.4+	0.7−	2000 01 05	704	0.0	0.4−	2000 03 04	704	1.8+	0.1−
1999 10 21	704	0.3+	0.4−	2000 01 05	704	0.0	0.4−	2000 03 04	704	1.7+	0.4+
1999 10 21	704	0.3+	0.3−	2000 01 05	704	0.0	0.5−	2000 03 04	704	(3.2+	0.5+)
1999 10 21	704	0.2+	0.5−	2000 01 05	704	0.2+	0.5−	2000 04 02	704	0.2+	0.3+
1999 10 21	704	0.6+	0.6−	2000 01 05	704	0.2+	0.3−	2000 04 02	704	0.2+	0.5−
1999 11 30	411	0.7+	0.4+	2000 01 05	106	0.6+	0.4+	2000 04 02	704	0.1+	0.1−
1999 11 30	411	0.3+	0.1+	2000 01 05	106	0.4+	0.2+	2000 04 02	704	0.6+	0.0
1999 12 02	411	0.6−	0.7−	2000 01 05	106	0.3+	0.3+	2000 04 02	704	0.0	1.0+

1999 12 02	411	0.8−	0.8−	2000 01 06	704	0.2+	0.5−
1999 12 06	704	0.2−	0.8+	2000 01 06	704	0.1−	0.4−

**1999 XH₁₂ = 1975 VE₅ = 1989 VX₂ = 1991 CM₄ = 1991 DA₁
= 1991 DO₁**

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams									
<i>M</i>	70.30837		(2000.0)	P		Q					
<i>n</i>	0.20883061	ω	234.54819	+0.78771797		−0.61544916					
<i>a</i>	2.8136708	Ω	163.38299	+0.59127953		+0.74309473					
<i>e</i>	0.0643748	<i>i</i>	5.39424	+0.17288412		+0.26274047					
<i>P</i>	4.72	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1				

Residuals in seconds of arc

1975 11 02	095	0.3−	0.8+	1999 10 10	704	0.2−	0.2+	2000 01 05	704	0.0	0.1−
1989 11 03	809	1.0+	0.3−	1999 10 10	704	0.3−	0.4−	2000 01 06	704	0.1−	0.3−
1989 11 03	809	0.4+	0.3+	1999 10 10	704	0.1−	0.2−	2000 01 06	704	0.2+	0.4−
1989 11 03	809	0.1−	0.5−	1999 10 10	704	0.9−	0.7+	2000 01 06	704	0.2+	0.1−
1991 02 12	511	(2.8−	1.8−)	1999 10 21	704	0.2+	0.1+	2000 02 02	704	0.3−	0.3+
1991 02 12	511	1.2−	0.4+	1999 10 21	704	0.3−	0.4−	2000 02 02	704	0.2−	0.3−
1991 02 17	046	(0.8+	3.1−)	1999 10 21	704	0.1+	0.6−	2000 02 02	704	0.3−	0.1−
1991 02 17	046	(2.4+	4.6−)	1999 10 21	704	0.0	0.3+	2000 02 02	704	0.2+	0.0
1991 02 22	511	(3.3−	0.9−)	1999 10 21	704	0.4+	0.1−	2000 02 02	704	0.3−	0.3+
1996 03 19	566	0.8+	0.3−	1999 12 05	704	0.2+	0.5−	2000 02 03	704	0.0	0.1+
1996 03 19	566	0.7+	0.3−	1999 12 05	704	0.4−	0.2+	2000 02 03	704	0.2−	0.1+
1996 03 19	566	1.2+	0.7−	1999 12 05	704	0.2−	0.1+	2000 02 03	704	0.6+	0.1+
1996 04 19	566	0.4−	0.6+	1999 12 05	704	0.0	0.1+	2000 02 03	704	0.4+	0.1+
1996 04 19	566	0.8−	0.7+	1999 12 05	704	0.7−	0.4+	2000 02 03	704	0.6+	0.0
1996 04 19	566	0.4−	0.8+	1999 12 06	704	1.3+	0.4+	2000 03 05	704	0.3−	0.0
1998 06 29	704	(1.0+	2.4−)	1999 12 06	704	0.4−	0.2+	2000 03 05	704	0.1−	0.3+
1998 06 29	704	(2.9+	0.8+)	1999 12 06	704	0.2+	0.9−	2000 03 05	704	0.6−	0.8+
1998 06 29	704	0.1+	0.2+	1999 12 06	704	1.0+	0.8−	2000 03 05	704	0.2−	0.3+
1998 06 29	704	1.0+	1.1+	1999 12 06	704	0.2−	1.0−	2000 03 05	704	0.0	0.3+
1998 06 29	704	(3.3−	1.2+)	1999 12 14	704	0.0	0.0	2000 04 03	704	0.4+	0.5+
1998 08 23	704	(2.4+	0.8+)	1999 12 14	704	0.2+	0.2−	2000 04 03	704	0.8+	1.1−
1998 08 23	704	0.9−	0.2−	1999 12 14	704	0.2−	0.4+	2000 04 03	704	0.9+	0.8−
1998 08 23	704	1.6−	0.4+	1999 12 14	704	0.5−	1.4+	2000 04 03	704	0.5+	0.4−
1998 08 23	704	(3.5−	0.9−)	1999 12 14	704	0.9−	0.3+	2000 04 04	704	0.4−	0.2+
1998 12 08	704	(1.3+	2.3+)	2000 01 05	704	0.1+	0.1−	2000 04 04	704	0.3−	0.6+
1998 12 08	704	(2.8+	0.2−)	2000 01 05	704	0.0	0.0	2000 04 04	704	0.8−	0.6+
1998 12 08	704	0.7+	0.8+	2000 01 05	704	0.0	0.2−	2000 04 04	704	0.4+	0.3+
1998 12 08	704	(4.1−	0.2−)	2000 01 05	704	0.1+	0.1−				

1999 XD₁₆ = 1977 VP₂ = 1990 WW₁₃

Id. S. Nakano, A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	87.93649		(2000.0)	P	Q
n	0.22963007	ω	329.43940	+0.99455422	+0.01168960
a	2.6410921	Ω	30.41896	+0.04760518	+0.83301580
e	0.3776330	i	11.80261	-0.09271275	+0.55312569
P	4.29	H	13.3	G 0.15	U 4

2000 APR. 18

M.P.C. 40083

1999 12 12 703 0.2+ 0.5+ 2000 01 08 704 0.4+ 0.0
 1999 12 12 703 1.1+ 0.9- 2000 01 08 704 0.3+ 0.2-

1999 XS₂₀ = 1981 UQ₁₇ = 1988 FX₁ = 1990 UN₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	58.01356	(2000.0)	P	Q	
<i>n</i>	0.21964868	ω 303.46052	+0.98371923	-0.03407554	
<i>a</i>	2.7205099	Ω 59.07219	+0.11721774	+0.86591211	
<i>e</i>	0.0842482	<i>i</i> 11.87044	-0.13622214	+0.49903415	
<i>P</i>	4.49	<i>H</i> 13.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1981 10 24	095	(3.8+ 1.6-)	1999 10 19	699	0.4+ 0.3+	1999 11 17	704	0.2- 0.2+
1988 03 18	033	0.6- 0.4+	1999 10 19	699	0.3- 0.2-	1999 11 17	704	0.5- 0.3+
1988 03 19	033	1.0+ 0.3+	1999 10 20	704	0.7+ 0.6-	1999 11 17	704	0.8- 0.1+
1990 10 24	809	0.6+ 0.7-	1999 10 20	704	0.1+ 0.2+	1999 11 17	704	0.1+ 0.3+
1990 10 24	809	0.7+ 1.7-	1999 10 20	704	0.4+ 0.1+	1999 12 05	704	0.2+ 0.2-
1990 10 24	809	(0.7+ 2.2-)	1999 10 20	704	0.6+ 0.7-	1999 12 05	704	0.2- 0.3-
1999 10 02	703	0.1+ 0.2-	1999 10 20	704	0.1+ 0.5-	1999 12 05	704	0.3+ 0.2+
1999 10 02	703	0.1- 0.3-	1999 10 30	703	0.2- 0.4-	1999 12 05	704	0.1- 0.1-
1999 10 02	703	0.5- 0.4-	1999 10 30	703	0.1+ 0.1-	1999 12 07	704	0.3- 0.3+
1999 10 02	703	0.5+ 0.4+	1999 10 30	703	0.3- 0.3-	1999 12 07	704	0.5- 0.5+
1999 10 07	704	0.9+ 1.2+	1999 10 30	703	0.1- 0.1+	1999 12 07	704	0.2- 0.3+
1999 10 07	704	0.7- 1.3+	1999 11 05	704	0.1- 0.1-	1999 12 07	704	0.3- 0.7+
1999 10 07	704	(0.3+ 2.5+)	1999 11 05	704	0.8- 0.0	1999 12 07	704	0.4- 0.4+
1999 10 09	704	(1.0+ 2.4+)	1999 11 05	704	0.8- 0.3-	2000 01 04	704	0.1- 0.4+
1999 10 09	704	(1.0+ 2.1+)	1999 11 05	704	0.3- 0.2+	2000 01 04	704	0.1- 0.6-
1999 10 09	704	1.0+ 2.0+	1999 11 05	704	0.6- 0.1-	2000 01 04	704	0.3+ 0.3-
1999 10 09	704	0.9+ 1.9+	1999 11 15	704	0.1- 0.0	2000 01 04	704	0.0 0.6-
1999 10 09	704	(0.6+ 2.2+)	1999 11 15	704	0.3- 0.1-	2000 01 04	704	0.0 0.0
1999 10 17	699	1.4- 0.5+	1999 11 15	704	0.3- 0.5-	2000 01 07	704	1.4+ 0.0
1999 10 17	699	0.0 0.3+	1999 11 15	704	0.6- 0.3-	2000 01 07	704	0.9+ 0.1-
1999 10 17	699	0.2+ 0.6+	1999 11 15	704	0.6- 0.6-	2000 01 07	704	0.7+ 0.3-
1999 10 19	699	0.3+ 1.4-	1999 11 17	704	0.2+ 0.2-	2000 01 07	704	0.9+ 0.1-

1999 XJ₃₂ = 1985 XC = 1991 PU₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	16.84809	(2000.0)	P	Q	
<i>n</i>	0.28454017	ω 322.58023	-0.38931842	-0.92053203	
<i>a</i>	2.2893226	Ω 150.29171	+0.86012648	-0.37591884	
<i>e</i>	0.1527189	<i>i</i> 3.75244	+0.32956578	-0.10632878	
<i>P</i>	3.46	<i>H</i> 15.0	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1985 12 15	801	0.0 1.8+	1999 12 07	704	0.5- 0.4-	2000 02 02	704	0.2- 0.0
1991 08 05	809	0.3- 0.2+	1999 12 07	704	0.7- 1.3-	2000 02 02	704	0.0 0.4-
1991 08 05	809	1.4- 0.5-	1999 12 07	704	0.1+ 1.1+	2000 02 02	704	0.4- 0.1+
1991 08 05	809	1.8+ 0.0	1999 12 07	704	0.6- 0.1-	2000 02 02	704	0.3- 1.3+
1999 11 17	704	0.7+ 0.9+	1999 12 07	704	0.7- 0.9-	2000 02 03	704	0.0 0.2-
1999 11 17	704	0.8+ 0.5+	1999 12 07	704	0.2+ 1.3-	2000 02 03	704	0.3- 0.5+
1999 11 17	704	0.7+ 0.1+	1999 12 07	704	0.6+ 0.7-	2000 02 03	704	0.4- 0.4+
1999 11 17	704	0.1- 0.1+	2000 01 05	704	0.0 0.4-	2000 02 03	704	0.4- 0.6+
1999 11 17	704	0.7- 0.2-	2000 01 05	704	0.5+ 0.3-	2000 02 03	704	0.2- 0.7+
1999 12 06	704	1.0- 0.5-	2000 01 05	704	0.3+ 0.2-	2000 02 08	704	0.2+ 0.0
1999 12 06	704	0.2+ 1.3-	2000 01 05	704	0.5+ 0.4-	2000 02 08	704	0.2+ 0.3-
1999 12 06	704	0.1+ 0.8+	2000 01 05	704	0.4+ 0.4-	2000 02 08	704	(0.0 2.3-)
1999 12 06	704	0.0 0.1-	2000 01 07	704	0.2+ 0.2+	2000 02 26	703	0.2+ 0.3+
1999 12 06	704	0.4+ 0.1+	2000 01 07	704	0.4+ 0.5+	2000 02 26	703	0.4+ 0.3-
1999 12 07	704	1.1- 0.5-	2000 01 07	704	0.4+ 0.4+	2000 02 26	703	0.5- 0.6-
1999 12 07	704	0.5- 0.0	2000 01 07	704	0.7+ 0.4+	2000 02 26	703	0.1+ 0.3-

1999 XO₃₈ = 1982 VP₄ = 1990 SL₁₉ = 1990 SZ₂₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	70.31663	(2000.0)	P	Q	
<i>n</i>	0.23842264	ω 340.71402	+0.71721118	-0.68973079	
<i>a</i>	2.5757540	Ω 63.31046	+0.65307921	+0.61552551	
<i>e</i>	0.2338946	<i>i</i> 6.38733	+0.24309602	+0.38131323	
<i>P</i>	4.13	<i>H</i> 14.2	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1982 11 14	381	0.7- 0.8+	1999 12 09	703	0.5- 0.5+	2000 02 05	704	0.0 0.1+
1982 11 14	381	0.5+ 0.2-	1999 12 09	703	0.2+ 0.2+	2000 02 05	704	0.2+ 0.0
1990 09 17	675	0.0 0.7-	1999 12 09	703	0.1- 0.8+	2000 02 05	704	0.6- 0.4+
1990 09 17	675	0.1- 0.5+	1999 12 09	704	0.2- 0.0	2000 02 05	704	0.1+ 0.4+
1990 09 20	675	0.1+ 0.4+	1999 12 09	704	0.5- 1.0-	2000 02 05	704	0.1+ 0.1+
1990 09 20	675	0.1- 0.1-	1999 12 09	704	0.3- 0.5-	2000 02 05	704	0.1+ 0.2+
1997 05 07	704	0.1- 0.8-	2000 01 03	704	0.5- 1.1-	2000 02 05	704	1.2- 0.9-
1997 05 07	704	0.3- 0.5+	2000 01 03	704	0.0 1.0-	2000 02 05	704	0.4+ 0.5+
1997 05 07	704	0.6- 0.1+	2000 01 03	704	1.3- 0.7-	2000 02 05	704	0.7+ 0.4-
1997 05 07	704	1.3+ 0.1+	2000 01 03	704	0.3+ 0.1+	2000 02 05	704	0.5+ 0.0
1999 11 16	704	0.2- 1.6-	2000 01 03	704	0.3- 0.1+	2000 02 05	704	0.2+ 0.1+
1999 11 16	704	1.8+ 0.1+	2000 01 06	699	0.3+ 0.3+	2000 02 05	704	0.9+ 0.5-
1999 11 16	704	0.0 0.5-	2000 01 06	699	0.5+ 0.3-	2000 02 08	704	0.3- 0.8+
1999 11 16	704	0.0 1.0-	2000 01 06	699	0.2- 0.3-	2000 02 08	704	0.1- 0.4-
1999 11 16	704	0.5+ 1.1-	2000 01 31	704	0.1+ 0.3-	2000 02 08	704	0.0 0.2-
1999 12 08	704	0.4- 0.4+	2000 01 31	704	0.0 0.2-	2000 02 08	704	0.6+ 0.3-
1999 12 08	704	0.7- 0.6-	2000 01 31	704	0.1+ 0.0	2000 02 08	704	0.3+ 0.6-
1999 12 08	704	0.0 0.3-	2000 01 31	704	0.9+ 1.5+	2000 02 16	704	0.3+ 0.4+
1999 12 08	704	0.2- 0.5+	2000 02 03	704	0.3- 0.3-	2000 02 16	704	1.4- 0.7+
1999 12 08	704	0.5+ 0.1-	2000 02 03	704	0.2- 0.0	2000 02 16	704	1.4- 1.0+
1999 12 09	699	1.5+ 0.8+	2000 02 03	704	0.5- 0.3+	2000 03 12	699	0.4- 0.5+
1999 12 09	699	0.8+ 1.7+	2000 02 03	704	0.5- 0.2+	2000 03 12	699	0.1+ 0.6+
1999 12 09	699	(0.6- 2.2+)	2000 02 03	704	0.1+ 0.2+	2000 03 12	699	0.1- 0.1-
1999 12 09	703	0.4+ 0.3+	2000 02 05	704	0.3+ 0.3-	2000 03 12	699	0.1+ 0.0

1999 XP₃₈ = 1978 YF₁ = 1985 DK₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	293.19470	(2000.0)	P	Q	
<i>n</i>	0.19507550	ω 120.98279	-0.73876818	+0.64670039	
<i>a</i>	2.9444277	Ω 100.02786	-0.66519309	-0.65440690	
<i>e</i>	0.0821057	<i>i</i> 11.10927	-0.10835004	-0.39182933	
<i>P</i>	5.05	<i>H</i> 12.4	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1978 12 22	095	0.6+ 1.0-	1999 11 16	704	1.1+ 0.2+	2000 01 04	704	0.8- 1.0-
1985 02 25	688	0.7- 1.0-	1999 11 16	704	0.2+ 0.0	2000 01 04	704	0.3- 0.0
1985 02 25	688	(2.1+ 3.1-)	1999 11 16	704	1.0+ 0.5-	2000 01 06	704	0.2+ 0.3-
1997 09 02	566	0.2+ 0.3-	1999 11 17	704	0.1- 0.4+	2000 01 06	704	0.0 0.1+
1997 09 02	566	0.1- 0.3-	1999 11 17	704	1.2+ 0.3+	2000 01 06	704	0.4+ 0.3-
1997 09 02	566	0.4+ 0.2-	1999 11 17	704	0.2+ 0.3+	2000 01 06	704	0.4- 0.2-
1998 10 19	699	0.1+ 0.1-	1999 11 17	704	1.2+ 0.4+	2000 01 06	699	0.1- 0.2+
1998 10 19	699	0.3+ 0.8-	1999 12 04	703	0.8+ 0.3+	2000 01 06	704	0.5- 0.4+
1998 10 19	699	0.9- 0.1+	1999 12 04	703	0.4- 0.6+	2000 01 06	699	0.3+ 0.6+
1998 11 13	704	0.3- 0.6+	1999 12 04	703	0.3- 0.6+	2000 01 06	699	0.0 0.5+
1998 11 13	704	1.1+ 0.2+	1999 12 04	703	0.0 0.4+	2000 02 06	106	0.4+ 0.9+
1998 11 13	704	(0.5- 3.7+)	1999 12 08	704	0.8- 1.3-	2000 02 06	106	0.0 0.2+
1998 11 13	704	(2.4- 0.1+)	1999 12 08	704	0.6- 0.3-	2000 02 07	106	0.2- 0.5+
1998 11 13	704	1.2- 0.6+	1999 12 08	704	0.5- 0.9-	2000 03 04	704	1.3+ 1.0+
1998 11 16	699	0.2- 1.0+	1999 12 08	704	0.2+ 0.5-	2000 03 04	704	0.4- 0.9+
1998 11 16	699	0.3+ 0.6+	1999 12 08	704	0.4+ 0.0	2000 03 04	704	0.6- 0.8+
1998 11 16	699	0.3- 0.6+	1999 12 09	704	0.8- 0.1+	2000 03 04	704	0.5- 0.4+
1999 01 10	699	0.0 0.6-	1999 12 09	704	0.3+ 0.9-	2000 03 12	704	0.5+ 0.1+
1999 01 10	699	0.6- 0.1+	1999 12 09	704	0.1+ 0.6-	2000 03 12	704	0.2+ 0.1-
1999 01 10	699	0.1- 0.6-	1999 12 15	704	0.4- 1.3-	2000 03 12	704	0

1999 11 16	703	0.5+	0.3+	2000 01 04	704	0.1-	0.9-	2000 03 12	703	0.2-	0.1+
1999 11 16	704	0.2+	0.3+	2000 01 04	704	0.4-	0.7-	2000 03 12	703	0.4-	0.2+
1999 11 16	704	0.3-	0.6-	2000 01 04	704	0.6-	1.1-	2000 03 12	703	1.1-	0.4+

1999 XC₄₄ = 1977 RX₁₀

Id. G. V. Williams, A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	349.10763	(2000.0)		P	Q		
<i>n</i>	0.27372797	ω	113.56256	-0.16629756	-0.98603720		
<i>a</i>	2.3492177	Ω	346.00172	+0.89108086	-0.14649123		
<i>e</i>	0.0663765	<i>i</i>	2.06208	+0.42227954	-0.07918936		
<i>P</i>	3.60	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1977 09 09	675	1.8+	0.3+	1999 11 14	704	0.1-	0.5-	1999 12 07	704	0.4+	0.0
1977 09 10	675	1.8-	0.4-	1999 11 14	704	0.5-	0.1-	1999 12 07	704	0.4+	0.9-
1999 11 04	704	0.2+	0.8+	1999 11 14	704	0.3+	0.5-	1999 12 08	704	0.1+	0.6+
1999 11 04	704	0.6-	1.3+	1999 11 14	704	0.9+	1.0-	1999 12 08	704	0.2-	0.3+
1999 11 04	704	0.3-	0.4-	1999 11 16	704	0.4+	0.2-	1999 12 08	704	0.4+	0.4-
1999 11 04	704	0.2-	0.8-	1999 11 16	704	0.2+	0.4-	1999 12 08	704	0.7+	0.2-
1999 11 09	703	0.2+	0.5+	1999 11 16	704	0.5-	0.3-	1999 12 08	704	0.1-	1.0+
1999 11 09	703	0.3-	0.5+	1999 11 16	704	0.5+	0.9-	1999 12 13	703	1.0-	0.4-
1999 11 09	703	0.3-	1.2+	1999 11 16	704	0.3+	0.0	1999 12 13	703	0.6-	0.1+
1999 11 09	703	0.8-	0.8+	1999 12 07	704	0.6+	0.0	1999 12 13	703	0.7-	0.4-
1999 11 14	704	0.2-	0.0	1999 12 07	704	0.1+	0.3-	1999 12 13	703	0.4+	1.1+

1999 XV₅₄ = 1975 HF = 1998 OK₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Doppler			
<i>M</i>	13.73194	(2000.0)		P	Q		
<i>n</i>	0.18633142	ω	279.47764	+0.31313768	-0.94963476		
<i>a</i>	3.0358384	Ω	152.26507	+0.88096462	+0.28581880		
<i>e</i>	0.2673376	<i>i</i>	1.44962	+0.35474798	+0.12845791		
<i>P</i>	5.29	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1975 04 20	805	0.1-	0.4-	1998 07 27	691	0.9+	0.3-	1999 12 08	704	0.8-	0.8-
1998 07 16	691	1.1-	0.4-	1999 12 07	704	0.4-	0.8+	1999 12 08	704	0.3-	1.1-
1998 07 16	691	1.0-	0.1+	1999 12 07	704	0.3+	1.2+	1999 12 08	704	0.8-	1.1-
1998 07 16	691	1.1-	0.1+	1999 12 07	704	0.9+	0.5+	1999 12 08	704	0.1+	1.5-
1998 07 27	691	1.3+	0.1-	1999 12 07	704	0.5+	1.2+				
1998 07 27	691	0.9+	0.3+	1999 12 07	704	0.8+	0.6+				

1999 XW₈₆ = 1984 PH = 1985 YG₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	46.63549	(2000.0)		P	Q		
<i>n</i>	0.21683272	ω	341.32079	+0.29688504	-0.94767861		
<i>a</i>	2.7440130	Ω	91.27581	+0.89038697	+0.23032929		
<i>e</i>	0.0188752	<i>i</i>	6.73927	+0.34506566	+0.22102866		
<i>P</i>	4.55	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1984 08 02	413	0.3+	1.8+	1999 12 08	704	0.1+	0.4-	2000 01 08	704	0.7-	0.4-
1984 08 02	413	0.8-	0.4-	1999 12 08	704	0.4+	0.2-	2000 01 08	704	0.6-	0.5-
1985 12 17	010	0.9-	1.9-	1999 12 08	704	0.0	0.4+	2000 01 08	704	0.7-	0.7-
1985 12 17	010	1.4+	0.0	1999 12 31	699	0.2+	0.2+	2000 01 30	704	0.2-	0.4+
1999 10 16	704	1.5+	0.4+	1999 12 31	699	1.2+	0.1-	2000 01 30	704	0.1+	0.4+
1999 10 16	704	0.5-	0.6+	1999 12 31	699	0.3+	0.0	2000 01 30	704	0.5+	0.7+
1999 10 16	704	0.4-	0.4+	2000 01 03	704	0.4+	0.1-	2000 01 30	704	0.3+	0.9+
1999 10 16	704	0.3-	1.0+	2000 01 03	704	0.5-	0.6+	2000 01 30	704	0.1+	1.9+
1999 12 07	704	0.4+	0.2-	2000 01 03	704	0.3-	0.1+	2000 01 31	704	0.2+	0.1+
1999 12 07	704	0.4+	0.1-	2000 01 03	704	0.5-	0.2+	2000 01 31	704	0.9+	1.2-
1999 12 07	704	0.4-	0.3+	2000 01 03	704	0.4-	0.4+	2000 01 31	704	0.4-	0.4-
1999 12 07	704	0.4+	0.3+	2000 01 04	704	0.2-	1.1-	2000 01 31	704	0.5+	0.1-
1999 12 07	704	0.0	0.2+	2000 01 04	704	1.2+	0.3+	2000 02 11	704	0.4+	0.3-

1999 12 07	691	0.1-	0.1-	2000 01 04	704	0.2-	0.3+	2000 02 11	704	0.5-	0.2+
1999 12 07	691	0.2-	0.1-	2000 01 04	704	0.1+	0.2+	2000 02 11	704	0.3-	0.1+
1999 12 07	691	0.1-	0.2-	2000 01 04	704	1.3-	0.4+	2000 02 11	704	0.1+	0.3+
1999 12 08	704	0.2+	0.2-	2000 01 08	704	0.4-	0.8-	2000 02 11	704	0.7-	0.2-
1999 12 08	704	0.2+	0.4-	2000 01 08	704	0.0	0.0				

1999 XT₉₄ = 1976 YE₅ = 1981 AH₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	40.69379	(2000.0)		P	Q		
<i>n</i>	0.26037887	ω	26.71696	+0.09338652	-0.99534328		
<i>a</i>	2.4288399	Ω	57.93329	+0.90835715	+0.07535221		
<i>e</i>	0.1695338	<i>i</i>	1.61542	+0.40763495	+0.06011488		
<i>P</i>	3.79	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1976 12 18	095	0.5-	0.6-	1999 12 09	699	0.6-	1.7+	2000 01 30	704	0.4-	0.9+
1981 01 08	381	0.3-	1.1-	2000 01 04	704	0.1+	0.7-	2000 02 03	704	0.1+	0.1+
1981 01 08	381	0.7+	0.5-	2000 01 04	704	0.1-	0.6-	2000 02 03	704	0.1+	0.1-
1998 08 17	704	0.1+	0.1-	2000 01 04	704	0.0	0.7-	2000 02 03	704	0.1+	0.1+
1998 08 17	704	(0.9-	2.1+)	2000 01 04	704	0.2+	0.7-	2000 02 03	704	0.0	0.0
1998 08 17	704	(1.0-	2.5+)	2000 01 04	704	0.1+	0.5-	2000 02 03	704	0.1-	0.0
1998 08 17	704	0.1+	0.2+	2000 01 05	699	0.2+	0.4+	2000 02 11	704	0.1+	0.2+
1998 08 17	704	(0.2-	2.6+)	2000 01 05	699	0.4+	0.1-	2000 02 11	704	0.2+	0.5+
1999 11 16	704	0.4-	0.8+	2000 01 05	699	0.4+	0.5+	2000 02 11	704	0.2-	0.7+
1999 11 16	704	0.4+	0.5+	2000 01 06	704	0.1-	0.4-	2000 02 11	704	0.2+	0.2+
1999 11 16	704	0.3+	0.2+	2000 01 06	704	0.0	0.4-	2000 02 26	703	0.8-	0.5+
1999 11 16	704	0.4+	0.6-	2000 01 06	704	0.2-	0.8-	2000 02 26	703	0.1-	0.2-
1999 11 16	704	0.9+	0.2+	2000 01 06	704	0.1-	0.1-	2000 02 26	703	0.2+	0.3-
1999 12 07	704	0.7+	0.1-	2000 01 06	704	0.2-	0.2-	2000 02 26	703	0.6+	0.2+
1999 12 07	704	0.5+	0.4+	2000 01 26	106	0.2-	0.0	2000 03 04	704	0.8+	0.1+
1999 12 07	704	0.3+	0.3-	2000 01 26	106	0.3-	0.0	2000 03 04	704	0.0	0.2-
1999 12 07	704	0.1+	0.2-	2000 01 26	106	0.2-	0.0	2000 03 04	704	0.4-	0.1-
1999 12 07	704	0.0	0.2-	2000 01 30	703	0.5-	0.1+	2000 03 04	704	0.3-	0.3+
1999 12 08	704	0.5-	0.5-	2000 01 30	703	0.5-	0.3-	2000 03 04	704	1.2-	1.0-
1999 12 08	704	0.5+	0.5-	2000 01 30	703	0.3-	0.8-	2000 03 26	699	0.7+	0.3+
1999 12 08	704	1.3+	0.8+	2000 01 30	704	0.2+	0.2+	2000 03 26	699	0.5+	0.4+
1999 12 08	704	0.6+	1.0+	2000 01 30	703	0.9-	0.1-	2000 03 26	699	0.0	0.0
1999 12 08	704	0.8+	0.3+	2000 01 30	704	0.3-	0.2+	2000 03 26	699	0.5+	0.2-
1999 12 09	699	(0.8+	2.9+)	2000 01 30	704	0.5-	0.5+				
1999 12 09	699	0.1-	1.1+	2000 01 30	704	0.7-	0.0				

1999 XA₁₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	345.68774	(2000.0)		P	Q		
<i>n</i>	0.39369796	ω	103.91787	-0.56895567	+0.60618126		
<i>a</i>	1.8437156	Ω	116.84210	-0.75197419	-0.65704413		
<i>e</i>	0.5821385	<i>i</i>	38.52353	+0.33290279	-0.44814874		
<i>P</i>	2.50	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 12 02	675	0.9-	1.1-	2000 01 06	046	0.4+	0.2+	2000 01 25	610	0.0	0.1-
1994 12 02	675	1.5+	1.0-	2000 01 06	046	0.3+	0.3+	2000 01 25	610	0.3+	0.2-
1999 12 14	704	0.0	0.8-	2000 01 06	046	0.2+	0.3+	2000 01 25	610	0.5+	0.2-
1999 12 14	704	0.3-	0.1+	2000 01 06	113	0.2+	0.2-	2000 01 25	610	0.8+	0.1-
1999 12 14	704	0.3+	0.6+	2000 01 06	113	0.2+	0.4-	2000 01 26	610	1.0+	0.2-
1999 12 14	704	0.5-	0.2+	2000 01 06	113	0.1+	0.3-	2000 01 26	118	0.1-	0.3+
1999 12 14	704	0.3+	1.2-	2000 01 06	113	0.2+	0.1-	2000 01 26	118	0.3-	0.1+
1999 12 15	704	0.3-	0.6-	2000 01 06	113	0.1-	0.3-	2000 01 26	610	0.9-	0.3-
1999 12 15	704	0.4-	0.4-	2000 01 06	118	0.0	0.1-	2000 01 26	610	0.8-	0.3-
1999 12 15	704	0.8-	0.0	2000 01 06	118	0.3+	0.0	2000 01 27	610	0.8-	0.2-
1999 12 15	704	0.9-	0.4-	2000 01 06	118	0.0	0.0	2000 01 27	610	0.8-	0.0
1999 12 15	704	1.3-	0.3+	2000 01 06	704	0.4+	0.0	2000 01 27	610	0.8-	0.0
2000 01 04	704	0.4+	0.3+	2000 01 06	651	0.1-	0.3-	2000 01 27	171	0.7+	1.7-
2000 01 04	704	0.2+	0.5+	2000 01 06	651	0.2-	0.1-	2000 01 28	610	0.2-	0.3-
2000 01 04	704	0.4+	0.8+	2000 01 06	651	0.2-	0.2-	2000 01 28	610	0.3-	0.3-

2000 APR. 18

M.P.C. 40085

2000 01 04	704	0.3+	0.2+	2000 01 06	704	0.1+	0.0	2000 01 28	171	(2.1+	2.9+)
2000 01 04	704	0.1+	0.0	2000 01 06	704	0.0	0.3+	2000 01 28	610	0.4-	0.4-
2000 01 05	704	0.2+	0.2+	2000 01 06	704	0.4+	0.3-	2000 01 28	610	0.5-	0.5-
2000 01 05	704	0.3+	0.6+	2000 01 06	704	0.5+	0.1-	2000 01 28	610	0.6-	0.5-
2000 01 05	704	0.4+	0.3+	2000 01 06	704	0.0	0.1+	2000 01 28	171	0.8-	0.1-
2000 01 05	678	0.3-	0.3+	2000 01 06	704	0.1+	0.2-	2000 01 30	610	(2.4-	3.3-)
2000 01 05	678	0.7-	0.3-	2000 01 06	704	0.2+	0.0	2000 01 30	610	(2.2-	3.1-)
2000 01 05	704	0.1+	0.2+	2000 01 06	704	0.1-	0.2+	2000 01 31	610	(2.1-	3.1-)
2000 01 05	678	0.5-	0.2-	2000 01 06	704	0.4+	0.3+	2000 01 31	610	(1.9-	2.9-)
2000 01 05	704	0.5+	0.6+	2000 01 06	670	0.5-	0.4-	2000 01 31	610	(1.8-	2.6-)
2000 01 05	678	0.1+	0.3+	2000 01 06	673	1.8+	1.1-	2000 02 02	118	0.8+	0.6+
2000 01 05	670	0.3+	0.1+	2000 01 06	673	(2.4+	1.6+)	2000 02 02	118	0.6+	0.3+
2000 01 05	670	0.6+	0.4+	2000 01 06	673	(1.5+	2.7+)	2000 02 02	118	0.7+	0.5+
2000 01 05	422	0.2-	0.4+	2000 01 06	670	1.0-	1.3-	2000 02 02	355	0.1+	0.5+
2000 01 05	422	0.0	0.0	2000 01 07	106	0.1-	0.5+	2000 02 02	355	0.8+	0.4+
2000 01 05	422	0.1-	0.0	2000 01 07	106	0.1-	0.3+	2000 02 02	355	0.0	0.2+
2000 01 05	587	0.2+	0.2+	2000 01 07	106	0.4+	0.4+	2000 02 05	151	(2.3-	0.4+)
2000 01 05	587	0.1+	0.0	2000 01 15	046	0.1+	0.6+	2000 02 05	151	0.6-	0.2-
2000 01 05	557	0.3-	0.4+	2000 01 15	046	0.0	0.4+	2000 02 05	151	0.0	0.2-
2000 01 05	557	0.1+	0.2+	2000 01 15	046	0.1-	0.4+	2000 02 05	151	1.4+	0.6+
2000 01 05	557	0.2-	0.5+	2000 01 15	046	0.1-	0.5+	2000 02 05	151	0.5-	0.9-
2000 01 05	611	0.2-	0.2-	2000 01 15	046	0.2-	0.4+	2000 02 13	587	0.8+	0.1-
2000 01 06	611	0.5-	0.6-	2000 01 18	402	0.3-	0.0	2000 02 13	587	0.9-	0.3-
2000 01 06	611	0.1+	0.2+	2000 01 18	402	0.4-	0.1-				
2000 01 06	046	0.2+	0.4+	2000 01 18	402	0.2-	0.2+				

1999 XV₁₆₄ = 1980 TZ₁₀ = 1986 AY

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	36.84763		(2000.0)	P	Q
n	0.21305452	ω	349.80798	+0.21032667	-0.97205085
a	2.7763585	Ω	87.99392	+0.90414519	+0.15282336
e	0.2835224	i	5.99090	+0.37186579	+0.17821943
P	4.63	H	13.8	G 0.15	U 2

Residuals in seconds of arc

1980 10 08	095	0.1+	0.7-	1999 12 08	704	0.5-	0.2-	2000 01 06	699	0.2-	1.0+
1986 01 11	688	(3.2+	4.5-)	1999 12 08	704	0.7-	0.3-	2000 01 30	704	0.2-	0.6+
1986 01 11	688	0.2+	1.4-	1999 12 08	704	0.4-	0.2-	2000 01 30	704	0.2-	0.8+
1998 08 17	704	0.3-	1.2+	1999 12 08	704	0.1-	0.0	2000 01 30	704	0.1-	0.5+
1998 08 17	704	0.2+	0.3+	1999 12 08	704	0.6+	0.3-	2000 01 30	704	0.3-	0.3+
1998 08 17	704	(0.3+	2.1+)	1999 12 09	699	0.5-	1.0+	2000 02 11	704	0.1-	0.2+
1998 08 17	704	0.7-	1.8+	1999 12 09	699	0.6-	0.6+	2000 02 11	704	0.1-	0.4+
1998 08 17	704	(3.2-	0.2-)	1999 12 09	699	0.0	0.2+	2000 02 11	704	0.0	0.5+
1999 10 22	704	0.2-	0.2-	1999 12 15	704	1.1-	1.1-	2000 02 11	704	0.2+	0.5+
1999 10 22	704	0.0	0.1-	1999 12 15	704	0.1+	1.2-	2000 02 11	704	0.0	0.3+
1999 10 22	704	0.3+	0.2+	1999 12 15	704	0.0	0.2-	2000 03 02	703	(1.2-	3.3+)
1999 10 22	704	0.8+	0.2-	1999 12 15	704	1.1+	0.5+	2000 03 02	703	(0.5+	2.6+)
1999 10 22	704	0.5+	0.3-	2000 01 04	704	0.0	0.5-	2000 03 02	703	1.2+	0.9+
1999 11 04	699	0.6-	1.3+	2000 01 04	704	0.5+	0.4-	2000 03 02	703	0.3-	0.5+
1999 11 04	699	0.7+	0.8+	2000 01 04	704	0.1-	0.7-	2000 03 30	608	0.1+	0.1+
1999 11 04	699	0.1-	1.2+	2000 01 04	704	0.3+	0.7-	2000 03 30	608	0.2-	0.3-
1999 11 10	699	0.4+	0.2+	2000 01 04	704	0.3-	0.6-	2000 03 30	608	0.2-	0.3+
1999 11 10	699	0.9+	0.6+	2000 01 06	704	0.1+	0.1+	2000 04 02	704	0.4-	0.2-
1999 11 10	699	0.2-	0.7+	2000 01 06	704	0.2+	0.0	2000 04 02	704	1.0-	0.2-
1999 11 16	704	0.2-	0.3-	2000 01 06	704	0.3+	0.1-	2000 04 02	704	0.4+	0.5-
1999 11 16	704	0.1-	0.1+	2000 01 06	699	0.5+	0.7+	2000 04 02	704	0.3+	0.3-
1999 11 16	704	0.4-	0.3-	2000 01 06	704	0.1+	0.3-	2000 04 02	704	0.2+	0.1+
1999 11 16	704	0.1+	0.0	2000 01 06	704	0.3+	0.3-				
1999 11 16	704	0.1-	0.2-	2000 01 06	699	0.4+	0.0				

1999 XC₁₇₀ = 1992 YJ₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	39.50493		(2000.0)	P	Q
n	0.27940043	ω	116.12929	+0.64981717	-0.75550475
a	2.3173129	Ω	293.08621	+0.66099775	+0.61584152
e	0.2606900	i	5.19960	+0.37525941	+0.22349897
P	3.53	H	15.3	G 0.15	U 4

Residuals in seconds of arc

1992 12 29	033	0.3+	0.0	1999 12 15	704	0.3+	0.4+	2000 01 04	704	0.6-	0.8-
1992 12 30	033	0.3-	0.5+	1999 12 15	704	0.7+	0.4+	2000 01 30	704	0.1-	1.0+
1993 01 01	033	0.1+	0.3-	1999 12 15	704	1.0+	0.1+	2000 01 30	704	0.2-	0.7+
1999 10 14	704	0.7-	0.6+	1999 12 15	704	1.1+	0.1+	2000 01 30	704	0.1-	0.0
1999 10 14	704	0.5+	0.1-	2000 01 03	704	0.3+	0.4-	2000 01 30	704	1.2-	0.2+
1999 10 14	704	0.5+	0.3-	2000 01 03	704	0.3-	0.1+	2000 01 30	704	0.4-	0.2-
1999 10 14	704	0.4-	0.1-	2000 01 03	704	0.4-	0.6-	2000 02 11	704	0.2+	0.5+
1999 10 14	704	0.7-	0.1-	2000 01 03	704	0.1+	1.1-	2000 02 11	704	0.0	0.3+
1999 12 10	704	0.0	0.5+	2000 01 03	704	0.4-	0.6-	2000 02 11	704	0.3+	0.0
1999 12 10	704	0.2-	0.6+	2000 01 04	704	0.2+	0.8-	2000 02 11	704	0.3+	0.2+
1999 12 10	704	0.2-	0.4+	2000 01 04	704	0.1-	0.1-	2000 02 11	704	0.2-	0.6+
1999 12 10	704	0.0	0.4+	2000 01 04	704	0.1-	1.1-				
1999 12 15	704	0.4+	0.5+	2000 01 04	704	0.3-	0.9-				

1999 XV₁₇₀ = 1987 UW₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	37.44562		(2000.0)	P	Q
n	0.17543014	ω	358.00063	+0.41341655	-0.89993728
a	3.1603358	Ω	67.55680	+0.83747272	+0.31608295
e	0.0647787	i	8.62216	+0.35738802	+0.30034056
P	5.62	H	12.3	G 0.15	U 1

Residuals in seconds of arc

1987 10 23	095	0.3+	0.7-	1999 11 03	704	0.8+	0.5-	2000 01 04	704	0.1-	0.4+
1996 05 19	809	1.2-	2.0-	1999 11 16	704	0.6+	1.0-	2000 01 04	704	0.3+	0.1-
1996 05 19	809	0.9-	1.8-	1999 11 16	704	0.0	0.5-	2000 01 04	704	0.6-	0.1+
1996 05 19	809	0.4-	1.5-	1999 11 16	704	0.7+	0.2+	2000 01 04	704	0.2-	0.1-
1998 11 15	699	0.2-	0.1+	1999 11 16	704	0.9-	0.1-	2000 01 29	704	0.7+	0.2+
1998 11 15	699	0.6-	0.4-	1999 12 10	704	0.7-	0.5-	2000 01 29	704	1.0-	0.0
1998 11 15	699	0.7-	0.2+	1999 12 10	704	0.5-	0.1-	2000 01 29	704	0.2-	0.6+
1998 12 16	699	0.1-	0.5+	1999 12 10	704	0.4-	0.4+	2000 01 29	704	0.0	1.0+
1998 12 16	699	1.7+	1.5-	1999 12 15	704	0.3-	0.2-	2000 01 29	704	0.4+	1.2+
1998 12 16	699	1.4+	1.0-	1999 12 15	704	0.1-	0.3-	2000 01 30	704	(3.9-	0.5-)
1999 10 13	704	0.6-	0.5+	1999 12 15	704	1.1+	0.5-	2000 01 30	704	0.4-	0.7+
1999 10 13	704	0.3+	0.3-	1999 12 15	704	1.6-	0.4-	2000 01 30	704	0.1-	0.7+
1999 10 13	704	0.3-	0.6-	1999 12 15	704	0.0	0.6-	2000 01 30	704	0.1+	0.9+
1999 10 13	704	0.5+	0.1+	2000 01 02	704	0.3-	0.3+	2000 01 30	704	0.2-	0.8+
1999 10 13	704	0.4+	0.9-	2000 01 02	704	0.5-	0.3-	2000 02 02	704	0.7+	0.2+
1999 11 03	704	0.2+	1.4-	2000 01 02	704	0.2-	0.5-	2000 02 02	704	0.2+	0.8-
1999 11 03	704	0.8+	0.5-	2000 01 02	704	0.5-	0.5-	2000 02 02	704	0.7+	0.2-
1999 11 03	704	1.5+	1.0-	2000 01 02	704	0.1-	0.6-	2000 02 02	704	0.1+	0.4+
1999 11 03	704	0.9+	0.2-	2000 01 04	704	0.2-	0.1+	2000 02 02	704	0.6-	0.7+

1999 XT₁₇₅ = 1988 AQ₂ = 1998 RD₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	12.77616		(2000.0)	P	Q
n	0.25193159	ω	99.96537	-0.39885239	-0.91658217
a	2.4828337	Ω	13.64504	+0.78760052	-0.35813969
e	0.1095601	i	6.85969	+0.46968307	-0.17780070
P	3.91	H	14.1	G 0.15	U 3

M.P.C. 40086

1988 01 11	033	0.2−	0.1+	1999 11 16	703	0.2+	0.1−	2000 01 29	704	0.2+	0.3+
1998 08 17	704	(0.4−	2.6−)	1999 11 16	703	0.1+	0.6+	2000 01 29	704	0.0	0.5+
1998 08 17	704	0.6+	0.0	1999 12 08	703	0.4−	0.2+	2000 01 29	704	0.3+	0.6+
1998 08 17	704	0.0	0.6+	1999 12 08	703	0.1−	0.1−	2000 01 29	704	0.1+	0.7+
1998 08 17	704	0.8−	0.5+	1999 12 08	703	0.5−	0.1+	2000 03 10	703	0.2−	0.3+
1998 08 23	704	0.5−	1.2+	1999 12 08	703	0.6−	0.2−	2000 03 10	703	0.2+	0.4+
1998 08 23	704	0.2−	0.0	1999 12 10	704	0.4+	1.5−	2000 03 10	703	0.2+	0.0
1998 08 23	704	0.8+	0.5−	1999 12 10	704	0.6+	0.8−	2000 03 10	703	0.3−	0.3+
1998 08 23	704	(2.2+ 1.6+)		1999 12 10	704	0.5+	0.2−	2000 03 12	704	0.4−	1.1−
1998 08 23	704	(3.9− 0.1+)		1999 12 10	704	0.7+	0.2−	2000 03 12	704	0.1−	0.4+
1998 09 14	704	1.5+	0.2−	1999 12 10	704	0.1−	0.9+	2000 03 12	704	0.3+	0.6+
1998 09 14	704	1.0−	0.6−	1999 12 15	704	0.2−	0.6−	2000 03 12	704	0.2+	0.4+
1998 09 14	704	0.2−	2.0−	1999 12 15	704	1.0+	0.1+	2000 04 02	704	0.4+	1.5−
1998 09 14	704	1.3−	1.6+	1999 12 15	704	0.1−	0.1+	2000 04 02	704	0.6−	0.4−
1998 09 18	704	1.5+	0.2−	1999 12 15	704	0.4−	0.9−	2000 04 02	704	0.8−	1.7−
1998 09 18	704	0.0	0.1−	2000 01 02	704	0.7−	0.0	2000 04 02	704	(0.3+ 2.3−)	
1998 09 18	704	1.4+	0.3−	2000 01 02	704	0.2−	0.1−				

1999 XO₁₈₀ = 1978 CD = 1984 WL₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	38.75080		(2000.0)	P	Q
<i>n</i>	0.26841948	ω	47.52888	−0.07956473	−0.98898146
<i>a</i>	2.3800899	Ω	47.48628	+0.85767038	−0.13174220
<i>e</i>	0.1708181	<i>i</i>	9.75081	+0.50800687	+0.06752534
<i>P</i>	3.67	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1978 02 03	801	0.4+	1.4+	1999 12 15	704	0.6−	0.3+	2000 03 11	699	0.0	0.2−
1984 11 19	675	0.9+	0.1−	1999 12 15	704	1.1−	0.4+	2000 03 11	699	0.1−	0.1+
1984 11 21	675	0.6−	0.3+	2000 01 03	704	0.8+	1.4−	2000 03 12	704	0.5−	0.2−
1998 08 20	699	0.3−	0.3−	2000 01 03	704	1.1+	0.8−	2000 03 12	704	0.4−	0.3−
1998 08 20	699	0.0	0.8+	2000 01 03	704	0.3+	0.6−	2000 03 12	704	0.8−	0.0
1998 08 20	699	0.3−	0.3+	2000 01 03	704	1.3+	0.8−	2000 03 12	704	0.6−	0.6−
1999 12 10	704	0.5−	0.1+	2000 01 03	704	1.1+	0.1+	2000 03 12	704	0.9−	0.8−
1999 12 10	704	0.6−	0.3+	2000 03 10	703	0.3+	0.3+	2000 04 02	704	0.2−	0.6+
1999 12 10	704	0.0	0.4+	2000 03 10	703	0.0	0.1−	2000 04 02	704	1.0+	0.6+
1999 12 10	704	0.2−	0.7+	2000 03 10	703	0.2+	0.2+	2000 04 02	704	0.3+	0.3+
1999 12 10	704	0.0	0.7+	2000 03 10	703	0.0	0.1+	2000 04 02	704	0.8+	0.2−
1999 12 15	704	0.8−	0.0	2000 03 11	699	0.1−	0.4+	2000 04 02	704	0.8+	0.2−
1999 12 15	704	1.1−	0.2+	2000 03 11	699	0.1−	0.1+				

1999 XS₁₈₀ = 1983 HQ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.93980		(2000.0)	P	Q
<i>n</i>	0.22636138	ω	137.36282	−0.89097590	+0.40730785
<i>a</i>	2.6664565	Ω	67.69346	−0.45261236	−0.76157542
<i>e</i>	0.1334146	<i>i</i>	12.52613	−0.03611092	−0.50408650
<i>P</i>	4.35	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1983 04 18	688	0.8+	1.8−	1999 12 10	704	0.3−	0.2+	2000 03 11	703	0.5−	0.3+
1983 04 18	688	(1.1− 3.3−)		1999 12 15	704	0.3−	0.5+	2000 03 11	703	0.1+	0.1+
1983 04 21	809	0.1−	0.6+	1999 12 15	704	0.4−	0.9+	2000 03 11	703	0.1−	0.4+
1983 04 21	809	0.2+	1.2+	1999 12 15	704	0.2+	1.9+	2000 03 11	703	0.5−	0.4+
1983 04 21	809	0.6−	0.6+	2000 01 03	704	0.1+	0.4−	2000 03 12	704	0.1+	0.4−
1999 12 10	704	0.2−	0.5−	2000 01 03	704	0.3+	0.3−	2000 03 12	704	0.3+	0.7−
1999 12 10	704	0.0	0.4−	2000 01 03	704	0.7+	0.6−	2000 03 12	704	0.3−	0.3−
1999 12 10	704	0.5−	0.3−	2000 01 03	704	0.5+	0.4+	2000 03 12	704	0.3+	0.2−
1999 12 10	704	0.0	0.0	2000 01 03	704	0.5+	0.1+	2000 03 12	704	0.2−	1.2−

1999 XL₁₈₈ = 1991 PZ₂₈

Id. A. Doppler

2000 APR. 18

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	338.73369		(2000.0)	P	Q
<i>n</i>	0.27677131	ω	164.05224	−0.66328472	−0.74701148
<i>a</i>	2.3319648	Ω	327.45893	+0.677114080	−0.57345204
<i>e</i>	0.1054995	<i>i</i>	4.80151	+0.31864356	−0.33634299
<i>P</i>	3.56	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1991 08 06	809	0.3+	0.4+	1999 12 12	704	0.0	0.2−	2000 01 04	704	0.0	0.4+
1991 08 06	809	0.5−	0.0	1999 12 12	704	0.2+	0.1−	2000 01 04	704	0.3+	0.5−
1991 08 06	809	0.4−	0.6+	1999 12 12	704	1.4−	0.1+	2000 01 04	704	0.5+	1.0−
1997 03 05	809	0.4+	0.6+	1999 12 12	704	0.3+	0.7−	2000 01 30	704	0.3+	1.0+
1997 03 05	809	0.1+	0.6+	1999 12 12	704	0.1+	1.0−	2000 01 30	704	0.5+	0.1+
1997 03 05	809	0.1+	0.2−	1999 12 15	704	0.3+	0.4−	2000 01 30	704	1.0−	0.7+
1998 08 17	704	0.4+	0.4−	1999 12 15	704	0.7+	0.0	2000 01 30	704	0.1+	0.7+
1998 08 17	704	(0.3+ 2.2+)		1999 12 15	704	0.4−	0.2−	2000 01 30	704	0.2−	0.0
1998 08 17	704	0.4−	0.3+	1999 12 15	704	0.1−	0.1+	2000 02 11	704	0.5−	0.3−
1998 08 17	704	(2.5− 2.6+)		2000 01 02	704	0.4−	0.1−	2000 02 11	704	0.2−	0.1−
1998 08 17	704	(4.3− 0.6+)		2000 01 02	704	0.2+	1.9+	2000 02 11	704	0.2+	0.6−
1999 10 14	704	0.3−	0.1+	2000 01 02	704	0.3−	0.6+	2000 02 11	704	0.0	0.5−
1999 10 14	704	0.5−	0.4−	2000 01 02	704	0.0	0.2+	2000 02 11	704	0.3−	0.3−
1999 10 14	704	0.6+	0.8+	2000 01 02	704	1.2+	0.1−				
1999 10 14	704	0.1−	1.2+	2000 01 04	704	0.1+	0.3−				

1999 XD₂₁₁ = 1962 VG = 1988 RO₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	69.62230		(2000.0)	P	Q
<i>n</i>	0.19011028	ω	0.22049	+0.96662874	−0.25207430
<i>a</i>	2.9954746	Ω	14.62669	+0.23476397	+0.80022926
<i>e</i>	0.2205297	<i>i</i>	10.42393	+0.10254153	+0.54414307
<i>P</i>	5.18	<i>H</i>	12.8	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1962 11 01	760	0.3−	0.1+	1999 12 13	704	0.1−	0.6−	1999 12 30	704	1.0−	1.4+
1988 09 12	071	0.7−	1.3+	1999 12 13	704	0.1+	0.7−	1999 12 30	704	(1.1− 2.5+)	
1988 09 12	071	0.0	1.0+	1999 12 13	704	0.0	0.6−	2000 01 21	704	0.2+	0.8+
1996 03 17	566	0.4+	0.2+	1999 12 13	704	0.0	0.5−	2000 01 21	704	0.2+	0.4+
1996 03 17	566	0.4+	0.4+	1999 12 13	704	0.1−	0.4−	2000 01 21	704	0.3−	1.1+
1996 03 17	566	0.1+	0.3+	1999 12 15	704	0.1+	0.5−	2000 01 21	704	0.3+	0.8+
1998 11 20	699	0.0	1.4−	1999 12 15	704	0.1−	0.9−	2000 01 21	704	0.0	0.6+
1998 11 20	699	0.0	0.2−	1999 12 15	704	0.6+	1.0−	2000 01 27	704	0.1+	0.9+
1998 11 20	699	0.0	0.4−	1999 12 15	704	0.3+	1.2−	2000 01 27	704	0.4−	0.3+
1999 11 21	699	0.3+	0.5+	1999 12 15	704	0.6+	1.2−	2000 01 27	704	0.2−	0.2−
1999 11 21	699	0.3+	0.1+	1999 12 30	704	0.6−	0.2−	2000 01 27	704	0.1−	0.3−
1999 11 21	699	0.2+	0.8+	1999 12 30	704	1.0−	0.1+				

1999 XW₂₃₀ = 1982 UU₂

Id. G. V. Williams M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	108.66825		(2000.0)	P	Q
<i>n</i>	0.24071500	ω	283.05216	+0.96160638	−0.06768989
<i>a</i>	2.5593752	Ω	81.30201	+0.17889661	+0.88950921
<i>e</i>	0.1839076	<i>i</i>	15.60761	−0.20810855	+0.45187547
<i>P</i>	4.09	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1982 10 18	807	0.3+	0.6−	2000 01 10	699	0.0	0.2−	2000 02 03	704	0.1+	0.4−
1982 10 20	695	2.3−	0.6+	2000 01 10	699	0.2+	0.2−	2000 02 03	704	0.3+	1.6+
1982 10 21	807	4.5−	0.1+	2000 01 29	704	0.3−	0.6−	2000 02 03	704	0.1−	0.1−
1982 10 22	695	2.4−	1.3+	2000 01 29	704	0.2−	0.6−	2000 02 03	704	0.2−	0.4+
1982 10 25	807	4.1−	0.6+	2000 01 29	704	0.2+	0.8−	2000 02 03	704	0.1+	0.2+
1982 10 26	695	2.8+	0.4+	2000 01 29	704	0.0	0.6−	2000 02 05	704	0.3−	0.1+
1982 10 27	807(10.1+ 2.8−)			2000 01 29	704	0.1+	0.4−	2000 02 05	704	0.4−	0.1+
1999 12 07	703	1.2−	0.2+	2000 01 30	704	0.5−	0.6−	2000 02 05	704	0.3−	0.2+

2000 APR. 18

M.P.C. 40087

1999 12 07	703	0.0	0.2+	2000 01 30	704	0.0	0.3-	2000 02 05	704	0.2-	0.1-
1999 12 07	703	0.4-	0.2+	2000 01 30	704	0.1-	0.0	2000 02 05	704	0.2-	0.0
1999 12 07	703	0.2+	0.4+	2000 01 30	704	0.2-	0.3+	2000 02 05	704	0.4+	0.2-
1999 12 10	704	0.1+	0.3+	2000 02 02	704	0.6+	0.2+	2000 02 05	704	0.9+	0.4+
1999 12 10	704	0.4+	0.3-	2000 02 02	704	0.1-	0.1-	2000 02 05	704	0.2-	0.2-
1999 12 10	704	0.1+	0.5+	2000 02 02	704	0.1+	0.2-	2000 02 05	704	0.2-	0.2-
1999 12 10	704	0.0	0.1+	2000 02 02	704	0.2+	0.3-	2000 02 27	704	0.2+	0.4-
2000 01 02	704	0.3-	0.0	2000 02 02	704	0.0	0.2+	2000 02 27	704	0.5+	0.1-
2000 01 02	704	0.1-	0.0	2000 02 02	704	0.3-	0.3-	2000 02 27	704	0.1-	0.8-
2000 01 02	704	0.3+	0.1+	2000 02 02	704	1.1+	0.5-	2000 03 27	704	0.0	0.4-
2000 01 02	704	0.4+	0.3+	2000 02 02	704	0.2-	0.1+	2000 03 27	704	0.1+	0.1+
2000 01 02	704	0.7+	1.3+	2000 02 02	704	0.5-	0.4+	2000 03 27	704	0.6+	1.1+
2000 01 10	699	0.0	0.2+	2000 02 02	704	0.8-	0.3+				

1999 YT

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	67.54087		(2000.0)	P	Q
<i>n</i>	0.41632915	ω	272.53120	+0.74138469	-0.48058002
<i>a</i>	1.7762803	Ω	116.57501	+0.59367938	+0.79510645
<i>e</i>	0.3521147	<i>i</i>	31.58241	-0.31287942	+0.36993049
<i>P</i>	2.37	<i>H</i>	16.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1954 12 21	675	1.2-	0.0	2000 01 07	704	0.3+	0.5+	2000 01 18	402	0.2-	0.1-
1954 12 21	675	1.0+	0.4+	2000 01 07	704	0.9+	0.9+	2000 01 18	402	0.3-	0.2-
1999 12 16	704	0.7-	0.3-	2000 01 07	704	1.0+	0.5+	2000 01 25	610	0.3-	0.4-
1999 12 16	704	0.6-	0.3-	2000 01 07	711	0.9+	0.5+	2000 01 25	610	0.2-	0.4-
1999 12 16	704	0.8-	0.3-	2000 01 07	711	0.9+	0.9+	2000 01 25	118	0.5-	0.4+
1999 12 16	704	0.7-	0.2-	2000 01 07	670	0.7+	0.2+	2000 01 25	610	0.2-	0.3-
1999 12 16	704	0.8-	0.6-	2000 01 07	711	0.7+	0.5+	2000 01 25	118	0.6-	0.3+
1999 12 17	704	1.5-	0.5-	2000 01 07	670	0.4+	0.5+	2000 01 25	610	0.3-	0.2-
1999 12 17	704	0.9-	0.1+	2000 01 07	348	1.0+	0.8-	2000 01 25	118	0.6-	0.3+
1999 12 17	704	0.9-	0.3-	2000 01 07	348	1.0+	0.3+	2000 01 25	610	0.2-	0.1-
1999 12 17	704	1.0-	0.5-	2000 01 07	900	0.2-	0.2+	2000 01 26	402	0.6-	0.0
1999 12 17	704	0.5-	0.7-	2000 01 07	900	0.3-	0.5+	2000 01 26	402	0.4-	0.0
2000 01 05	704	0.5+	0.3-	2000 01 08	678	0.1-	0.6-	2000 01 26	402	0.3-	0.1+
2000 01 05	704	0.5+	0.6-	2000 01 08	678	1.5-	0.1+	2000 01 27	151	0.7+	1.1+
2000 01 05	704	0.5+	0.8-	2000 01 08	678	0.6-	0.8+	2000 01 27	151	0.7-	0.9+
2000 01 05	704	0.6+	1.1-	2000 01 08	704	0.1-	0.3+	2000 01 27	151	(2.3-	0.8+)
2000 01 05	704	0.6+	1.3-	2000 01 08	704	0.2-	0.0	2000 01 27	151	1.2-	0.3+
2000 01 06	557	0.1-	0.3+	2000 01 08	704	0.1+	0.4-	2000 01 27	106	0.3+	1.9-
2000 01 06	557	0.0	0.3+	2000 01 08	670	0.2-	0.1+	2000 01 27	151	1.1-	0.9+
2000 01 06	557	0.1-	0.1+	2000 01 08	704	0.3+	0.5-	2000 01 27	106	0.2-	0.4+
2000 01 06	046	0.2+	0.2+	2000 01 08	670	0.3+	0.5-	2000 01 27	106	0.7-	0.0
2000 01 06	046	0.0	0.2+	2000 01 08	670	0.3+	0.5-	2000 01 27	610	0.8+	0.2-
2000 01 06	046	0.0	0.4+	2000 01 08	422	0.2-	0.1+	2000 01 27	610	0.5+	0.0
2000 01 06	046	0.2-	0.1+	2000 01 08	422	0.1+	0.0	2000 01 27	610	0.2+	0.1+
2000 01 06	704	0.6+	0.4-	2000 01 08	422	0.0	0.0	2000 01 27	610	0.2-	0.2+
2000 01 06	704	0.5+	0.4-	2000 01 08	402	0.4-	0.1-	2000 01 27	610	0.4-	0.3+
2000 01 06	704	0.4+	0.1-	2000 01 08	402	0.4-	0.4+	2000 01 29	704	0.9-	0.2-
2000 01 06	704	0.1+	0.2-	2000 01 08	402	0.2-	0.6+	2000 01 29	704	0.4+	1.5-
2000 01 06	673	(0.7+	3.1-)	2000 01 08	402	0.3-	0.1+	2000 01 29	670	0.3+	1.1-
2000 01 06	704	0.5+	0.3-	2000 01 09	046	0.5-	0.3+	2000 01 29	704	0.8-	0.3-
2000 01 06	673	(0.7-	2.6-)	2000 01 09	046	0.6-	0.1-	2000 01 29	704	0.7-	0.5-
2000 01 06	670	(2.9-	0.8-)	2000 01 09	046	0.0	0.3+	2000 01 29	704	0.1-	0.7-
2000 01 06	670	1.4+	1.9-	2000 01 09	704	0.2+	0.4-	2000 01 29	670	0.3+	1.2-
2000 01 06	118	0.4-	0.0	2000 01 09	704	0.5-	0.4-	2000 01 29	670	(1.1+	2.1-)
2000 01 06	118	0.6-	0.4+	2000 01 09	704	0.1+	0.0	2000 01 30	610	1.7+	0.5+
2000 01 06	118	0.6-	0.5+	2000 01 09	670	0.7+	0.2-	2000 01 30	610	1.0+	0.1+
2000 01 07	046	0.3+	0.7+	2000 01 09	704	0.1+	0.0	2000 01 30	610	0.4+	0.3-
2000 01 07	046	0.4+	0.5+	2000 01 09	711	0.1+	0.2+	2000 01 30	610	0.2-	0.7-
2000 01 07	046	0.5+	0.6+	2000 01 09	711	0.1-	0.7+	2000 01 30	610	0.9-	1.1-
2000 01 07	046	0.2+	0.5+	2000 01 09	711	0.0	0.1+	2000 02 02	360	0.5-	0.1+
2000 01 07	106	0.1+	0.3+	2000 01 09	670	1.0-	0.6+	2000 02 02	360	0.3-	0.1+
2000 01 07	106	0.3+	0.2+	2000 01 13	699	0.0	1.5-	2000 02 02	360	0.5-	0.4+
2000 01 07	106	0.4+	0.1-	2000 01 13	699	1.0+	1.0-	2000 02 10	118	0.4-	0.1+
2000 01 07	104	0.5+	1.0+	2000 01 13	699	0.7+	0.7-	2000 02 10	118	0.3-	0.2+

2000 01 07	104	0.5+	0.9+	2000 01 13	151	(4.3-	0.3-)	2000 02 26	704	(2.1-	0.5+)
2000 01 07	104	0.8+	0.6+	2000 01 13	151	(2.9+	1.2+)	2000 02 26	704	0.2+	0.7+
2000 01 07	704	0.5+	0.6+	2000 01 13	151	1.0+	0.3+	2000 02 26	704	0.7-	0.1-
2000 01 07	704	0.6+	0.7+	2000 01 13	151	(0.7+	4.2+)	2000 02 26	704	0.8-	0.5+
2000 01 07	651	0.5+	0.3+	2000 01 13	151	(2.5-	3.3+)	2000 02 26	704	0.0	0.5-
2000 01 07	651	0.6+	0.6+	2000 01 13	151	0.3-	0.0				
2000 01 07	651	0.4+	0.5+	2000 01 18	402	0.5-	0.1-				

1999 YV₁₃ = 1990 BF₆ = 1991 DD₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	121.85220		(2000.0)	P	Q
<i>n</i>	0.19817960	ω	241.15836	+0.98766654	-0.04896108
<i>a</i>	2.9136011	Ω	121.28722	+0.09341826	+0.94653228
<i>e</i>	0.0808492	<i>i</i>	10.02210	-0.12564965	+0.31887216
<i>P</i>	4.97	<i>H</i>	12.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1990 01 27	887	0.5-	2.0+	Y	2000 01 02	120	(3.1-	0.8+)	2000 02 03	704	0.2-	0.0
1991 02 23	493	0.0	0.2-		2000 01 02	120	(2.8+	0.6+)	2000 02 03	704	1.0-	0.3+
1991 02 23	493	0.1+	0.6-		2000 01 02	120	0.5-	0.1-	2000 02 05	704	0.1+	0.3+
1991 02 23	493	0.2+	1.0-		2000 01 04	704	0.5-	0.1-	2000 02 05	704	0.4-	0.4+
1998 10 17	699	0.0	0.1-		2000 01 04	704	0.5-	0.0	2000 02 05	704	0.3+	0.3+
1998 10 17	699	0.1-	0.5+		2000 01 04	704	0.5-	0.0	2000 02 05	704	0.5+	0.1+
1998 10 17	699	0.3-	0.2+		2000 01 04	704	0.2-	0.3-	2000 02 05	704	0.9+	0.5+
1998 11 13	704	0.5-	0.1+		2000 01 04	704	0.2-	0.6+	2000 02 08	865	0.9-	0.3-
1998 11 13	704	1.2+	0.9+		2000 01 05	699	0.8+	0.2-	2000 02 08	865	0.7-	0.4-
1998 11 13	704	1.4-	1.3-		2000 01 05	699	0.8-	0.6+	2000 02 08	865	0.1-	0.2+
1998 11 13	704	0.2+	1.3-		2000 01 05	699	0.2-	0.0	2000 02 09	865	0.9-	0.3+
1998 11 13	704	(2.5-	1.3-)		2000 01 06	704	0.2-	0.5+	2000 02 09	865	1.0-	0.4-
1998 12 14	699	0.3-	0.7-		2000 01 06	704	0.4-	0.2-	2000 02 09	865	0.4-	1.0-
1998 12 14	699	0.3+	0.0		2000 01 06	704	0.5-	0.1-	2000 02 09	865	0.7-	0.2-
1998 12 14	699	0.4-	0.2+		2000 01 06	704	0.6-	0.4-	2000 02 09	865	(3.3-	0.1+)
1999 01 17	699	0.7+	0.8+		2000 01 06	704	0.8-	0.0	2000 02 09	865	1.2-	0.1-
1999 01 17	699	0.3+	0.8+		2000 01 13	699	0.1+	0.2-	2000 02 11	704	0.1+	0.1+
1999 01 17	699	1.0+	1.0-		2000 01 13	699	0.2-	0.1+	2000 02 11	704	0.4+	0.2+
1999 10 10	704	0.8+	0.5+		2000 01 13	699	0.1+	0.0	2000 02 11	704	0.5+	0.1-
1999 10 10	704	1.0+	0.1+		2000 01 16	120	0.5-	0.2-	2000 02 11	704	0.5+	0.1-
1999 10 10	704	0.6+	0.6+		2000 01 16	120	0.1-	0.4-	2000 02 11	704	0.1+	0.2+
1999 10 10	704	1.2+	0.5+		2000 01 16	120	0.5-	0.2-	2000 02 24	703	0.1-	0.3+
1999 10 10	704	0.6+	0.4+		2000 01 29	691	1.0+	0.3-	2000 02 24	703	0.5-	0.1+
1999 10 21	704	0.9+	0.4+		2000 01 29	691	0.9+	0.4-	2000 02 24	703	1.0-	0.1+
1999 10 21	704	0.5+	0.6-		2000 01 29	691	1.1+	0.4-	2000 02 24	703	0.6-	

2000 AF₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Gnädig

<i>M</i>	203.88080	(2000.0)	P		Q	
<i>n</i>	1.19769231	ω 200.02106	+0.65474834	+0.75457129		
<i>a</i>	0.8781578	Ω 110.90629	−0.68691978	+0.61826563		
<i>e</i>	0.4113824	<i>i</i> 2.69324	−0.31535032	+0.21993132		
<i>P</i>	0.82	<i>H</i> 20.2	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1991 01 15	675	0.9+	1.1−	2000 01 13	046	0.2+	0.7+	2000 01 26	108	1.7+	0.1+
1991 01 15	675	1.0−	0.7+	2000 01 13	046	0.0	0.3+	2000 01 26	108	0.9+	1.8−
2000 01 04	704	0.0	0.4−	2000 01 13	046	0.2+	0.7+	2000 01 26	108(	1.8+	3.9−)
2000 01 04	704	0.2−	0.2−	2000 01 13	046	0.7+	0.4+	2000 01 27	360	0.2+	0.1−
2000 01 04	704	1.3−	0.1−	2000 01 17	587	1.4+	1.1−	2000 01 27	360	0.1−	0.1+
2000 01 04	704	1.0+	0.5+	2000 01 17	587	1.1+	0.7−	2000 01 27	360	0.1+	0.0
2000 01 05	422	0.1+	0.6−	2000 01 18	402	0.2+	0.2+	2000 01 27	118	0.5−	0.2+
2000 01 05	422	0.7−	0.6+	2000 01 18	402	0.9−	0.3−	2000 01 27	118	0.0	0.1+
2000 01 06	046(	0.2+	4.6+)	2000 01 18	402	0.3−	0.2−	2000 01 27	118	0.0	0.4+
2000 01 06	046	0.3+	0.9+	2000 01 24	658	0.1−	0.3+	2000 01 27	049(	2.8+	1.0−)
2000 01 06	046	0.1−	0.4+	2000 01 24	658	0.0	0.1+	2000 01 28	049(	2.3+	1.0−)
2000 01 06	595	1.2+	0.5−	2000 01 24	658	0.5−	0.1−	2000 01 28	049(	2.5+	1.0−)
2000 01 06	595	0.4+	0.6−	2000 01 24	540	0.6+	0.2−	2000 01 30	704	0.5−	0.0
2000 01 06	595	0.4−	0.9+	2000 01 24	540	0.3+	0.2+	2000 01 30	704	0.1−	0.2+
2000 01 06	595	0.4+	1.4+	2000 01 24	540	0.3+	0.0	2000 01 30	704	0.2+	0.5+
2000 01 06	118	0.4−	0.2+	2000 01 24	540	0.1−	0.1−	2000 01 30	704	0.1−	0.7+
2000 01 06	118	0.2−	0.7+	2000 01 25	106	0.4+	0.1−	2000 01 30	587	1.7−	1.0+
2000 01 06	118	0.2+	0.2+	2000 01 25	106	0.3−	0.4−	2000 01 30	587	1.0−	0.0
2000 01 06	651	0.5−	0.9−	2000 01 25	106	0.5+	1.0+	2000 01 31	704	0.1−	0.2+
2000 01 06	651	0.2−	0.7−	2000 01 25	118	0.3−	0.4−	2000 01 31	704	0.8−	0.2−
2000 01 06	651	0.7−	1.0−	2000 01 25	118	0.0	0.0	2000 01 31	704	0.2−	0.0
2000 01 06	704	0.7−	1.3−	2000 01 25	118	0.1+	0.3−	2000 02 08	413	0.3+	0.4−
2000 01 06	704	0.0	0.2−	2000 01 25	046	0.2−	0.6+	2000 02 08	413	0.2+	0.3−
2000 01 06	704	0.0	0.5−	2000 01 25	046	0.1−	0.2+	2000 02 12	360	0.0	0.2−
2000 01 07	704	0.1−	0.8−	2000 01 25	046	0.0	0.4+	2000 02 12	360	0.1−	0.1−
2000 01 07	704	0.2−	0.4+	2000 01 25	046	0.5−	0.4+	2000 02 12	360	0.2+	0.3−
2000 01 07	704	1.0+	0.4+	2000 01 25	046	0.4−	0.8+	2000 02 28	693	0.3+	0.2−
2000 01 07	704	0.4−	0.7−	2000 01 26	402	0.3−	0.5−	2000 02 28	693	0.2+	0.0
2000 01 08	587	0.6−	0.3+	2000 01 26	402	0.8+	0.1−	2000 02 28	693	0.1+	0.1−
2000 01 08	587	0.0	0.1+	2000 01 26	402	0.1−	0.0				

2000 AS₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	301.43766	(2000.0)	P		Q	
<i>n</i>	0.17772276	ω 233.39193	−0.96025562	−0.17000526		
<i>a</i>	3.1330982	Ω 295.85964	+0.25953355	−0.83569523		
<i>e</i>	0.0852115	<i>i</i> 14.24154	−0.10272039	−0.52221806		
<i>P</i>	5.55	<i>H</i> 13.6	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1997 07 08	910	0.3+	0.5−	1999 12 15	704	0.2+	0.8−	2000 01 29	704	0.1+	0.0
1997 07 08	910	0.1+	0.6−	1999 12 15	704	1.2−	1.1+	2000 01 29	704	0.1−	0.4+
1997 07 08	910	0.1+	0.5−	2000 01 02	704	0.5+	0.0	2000 01 29	704	0.3−	0.4+
1997 09 07	910	0.1+	0.2+	2000 01 02	704	0.6+	0.2−	2000 01 30	704	0.1−	0.2−
1997 09 07	910	0.0	0.3+	2000 01 02	704	0.9−	0.1+	2000 01 30	704	0.7+	0.1+
1997 09 07	910	0.1+	0.2+	2000 01 04	704	0.0	0.4−	2000 01 30	704	0.2−	0.4+
1998 09 19	699	0.4−	0.1+	2000 01 04	704	0.3+	1.0+	2000 02 11	704	0.0	0.3+
1998 09 19	699	0.6−	0.1−	2000 01 04	704	0.2+	0.4−	2000 02 11	704	0.6−	0.1−
1998 09 19	699	0.5+	0.6+	2000 01 04	704	0.1+	0.3+	2000 02 11	704	0.4−	0.4−
1999 12 15	704	0.5+	1.6−	2000 01 29	704	0.1−	0.0	2000 02 11	704	0.2−	0.4−
1999 12 15	704	0.5+	0.7−	2000 01 29	704	0.0	0.3−				

2000 AK₂₉ = 1984 WF₄ = 1991 PY₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	73.74230	(2000.0)	P		Q	
<i>n</i>	0.26657791	ω 57.67662	+0.93001299	−0.36551913		
<i>a</i>	2.3910387	Ω 323.72195	+0.31163900	+0.83961418		
<i>e</i>	0.2413424	<i>i</i> 3.71722	+0.19482549	+0.40180069		
<i>P</i>	3.70	<i>H</i> 15.1	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1984 11 27	010	1.2+	0.8−	2000 01 03	704	0.2−	0.3+	2000 01 08	704	0.4−	0.9+
1984 11 28	010	1.1−	0.1−	2000 01 03	704	0.1+	0.1+	2000 01 08	704	0.1−	0.1+
1991 08 06	809	0.1−	1.0+	2000 01 03	704	0.1+	0.5−	2000 01 08	704	0.1−	0.1+
1991 08 06	809	0.4−	0.8+	2000 01 03	704	0.2+	0.3+	2000 01 08	704	0.2−	0.3+
1991 08 06	809	0.5−	0.4+	2000 01 04	704	0.0	0.0	2000 01 30	704	0.4−	0.4+
1999 12 10	704	0.5−	1.9−	2000 01 04	704	0.5−	0.1+	2000 01 30	704	0.2+	0.6+
1999 12 10	704	0.2+	0.2−	2000 01 04	704	0.5+	0.0	2000 01 30	704	0.3+	0.3+
1999 12 10	704	0.1−	0.4−	2000 01 04	704	0.5+	0.4+	2000 01 30	704	0.5+	0.6+
1999 12 10	704	0.4−	0.3−	2000 01 04	704	0.0	0.7+	2000 01 30	704	0.7+	1.2+
2000 01 03	704	0.5−	0.2−	2000 01 08	704	0.4+	0.3+				

2000 AK₃₃ = 1998 UV₃₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	203.62105	(2000.0)	P		Q	
<i>n</i>	0.26507349	ω 222.68625	+0.32061422	+0.94099793		
<i>a</i>	2.4000770	Ω 66.27767	−0.83402375	+0.33465172		
<i>e</i>	0.1095504	<i>i</i> 6.79388	−0.44901103	+0.05031021		
<i>P</i>	3.72	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 4		

Residuals in seconds of arc

1998 09 21	699	0.7+	0.5+	2000 01 03	704	0.1−	1.1−	2000 02 02	704	0.2+	1.1−
1998 09 21	699	1.2−	0.5−	2000 01 04	704	0.1−	0.1+	2000 02 11	704	1.1−	0.7−
1998 09 21	699	0.8−	0.4−	2000 01 04	704	0.0	0.1−	2000 02 11	704	0.3+	0.2−
1998 09 21	910	0.5+	0.0	2000 01 04	704	0.9−	0.2−	2000 02 11	704	1.2+	0.4−
1998 09 21	910	0.5+	0.2+	2000 01 04	704	0.3−	0.2+	2000 02 11	704	0.2+	1.1−
1998 09 21	910	0.2+	0.1+	2000 01 29	704	0.7+	0.7+	2000 02 25	704	1.5−	1.2+
1998 10 28	704	0.6−	0.1−	2000 01 29	704	0.2−	1.1+	2000 02 25	704	0.1−	0.0
1998 10 28	704	0.1−	1.5+	2000 01 29	704	0.4+	0.1+	2000 02 25	704	0.1+	0.1−
1998 10 28	704	0.2+	1.4−	2000 01 29	704	0.0	1.2+	2000 02 26	704	0.4+	0.6−
1998 10 28	704	0.7+	0.3+	2000 01 29	704	1.0−	0.5+	2000 02 26	704	0.1+	0.4−
1998 10 28	704	(5.3−	1.1+)	2000 02 02	704	0.2+	0.6+	2000 02 26	704	1.0−	0.1+
2000 01 03	704	0.1−	0.5−	2000 02 02	704	1.6+	1.6+	2000 02 26	704	0.3+	0.3−
2000 01 03	704	0.2−	0.2+	2000 02 02	704	0.8+	0.6−				
2000 01 03	704	0.4+	0.5−	2000 02 02	704	0.3−	0.3+				

2000 AL₃₃ = 1992 BS₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	252.43467	(2000.0)	P		Q	
<i>n</i>	0.24495147	ω 275.23805	−0.40234360	+0.91292317		
<i>a</i>	2.5297796	Ω 330.73632	−0.77463224	−0.37935741		
<i>e</i>	0.1034082	<i>i</i> 8.05425	−0.48791856	−0.15052988		
<i>P</i>	4.02	<i>H</i> 14.6	<i>G</i> 0.15	<i>U</i> 3		

Residuals in seconds of arc

1992 01 29	691	0.1+	0.0	2000 01 03	704	0.3+	0.5+	2000 01 30	704	1.0+	0.8+
1992 01 29	691	0.2+	0.3−	2000 01 03	704	1.3+	0.1−	2000 01 30	704	0.2+	1.1+
1992 01 29	691	0.2−	0.2−	2000 01 03	704	0.5+	0.6+	2000 02 07	703	1.8−	0.4+
1992 02 09	691	0.0	0.4+	2000 01 03	704	0.2−	1.4−	2000 02 07	703	(2.3−	0.5+)
1992 02 09	691	0.1−	0.1−	2000 01 03	704	0.1−	0.2+	2000 02 07	703	0.1+	1.0+
1992 02 09	691	0.1−	0.3−	2000 01 04	704	1.2+	1.0−	2000 02 07	703	(2.3−	1.2−)
1998 10 17	327	0.0	0.0	2000 01 04	704	0.8+	0.8−	2000 02 11	704	1.2−	0.2+
1998 10 17	327	0.4−	0.1−	2000 01 04	704	0.4+	0.4−	2000 02 11	704	0.4−	0.2+
1998 10 17	327	0.1+	0.3+	2000 01 04	704	0.3−	1.4−	2000 02 11	704	0.0	0.3+
1999 12 15	704	1.2−	0.1−	2000 01 04	704	0.5+	0.5−	2000 02 11	704	0.3+	0.4+
1999 12 15	704	0.7−	0.0	2000 01 30	704	0.0	0.4+	2000 02 11	704	0.4+	0.8−
1999 12 15	704	1.2−	0.4+	2000 01 30	704	0.1−	0.4+				

2000 APR. 18

M.P.C. 40089

2000 AP₃₉ = 1974 OJ₁ = 1974 PK = 1979 EJ

Id. A. Doppler, B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	221.06973		(2000.0)		P		Q
<i>n</i>	0.17570203	ω	331.05617		−0.17933157		+0.96299137
<i>a</i>	3.1570747	Ω	288.00557		−0.85697654		−0.25336028
<i>e</i>	0.1711213	<i>i</i>	12.21482		−0.48314739		+0.09195757
<i>P</i>	5.61	<i>H</i>	11.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1974 07 19	808	0.7+	0.1+	2000 01 03	704	0.5+	0.2−	2000 01 26	704	0.3−	0.1+
1974 07 19	808	0.0	0.4−	2000 01 03	704	0.2+	0.7−	2000 01 26	704	0.8−	0.6+
1974 08 15	808	1.0−	1.0+	2000 01 04	704	0.6+	0.4+	2000 01 30	704	0.0	0.2−
1974 08 15	808	0.2−	0.1+	2000 01 04	704	0.4+	0.6−	2000 01 30	704	0.2−	0.2−
1979 03 05	809	0.1+	0.2−	2000 01 04	704	0.5+	0.1−	2000 01 30	704	0.8+	0.0
1998 11 01	699	0.0	0.2−	2000 01 04	704	0.5+	0.3−	2000 01 30	704	0.3+	0.2+
1998 11 01	699	0.7+	0.9+	2000 01 04	704	0.3+	0.1+	2000 01 30	704	0.4+	0.5+
1998 11 01	699	0.5−	1.0−	2000 01 25	704	0.5−	0.0	2000 02 11	704	0.5+	0.8+
1999 12 07	704	0.4+	0.5−	2000 01 25	704	0.1+	0.7+	2000 02 11	704	0.9−	0.0
1999 12 07	704	0.5−	0.3−	2000 01 25	704	0.2+	0.5+	2000 02 11	704	0.6−	0.3+
1999 12 07	704	0.9−	0.4−	2000 01 25	704	0.4+	1.1+	2000 02 11	704	0.3−	0.4+
1999 12 07	704	0.2−	0.2−	2000 01 26	704	0.0	0.5−	2000 02 11	704	0.6−	0.0
2000 01 03	704	0.1+	0.1−	2000 01 26	704	0.1+	0.1−				

2000 AS₄₀ = 1998 RS₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	44.91290		(2000.0)		P		Q
<i>n</i>	0.21794523	ω	88.24439		+0.24342037		−0.96976805
<i>a</i>	2.7346671	Ω	347.62620		+0.85488266		+0.22290125
<i>e</i>	0.1409300	<i>i</i>	4.60869		+0.45817264		+0.09932256
<i>P</i>	4.52	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 23	704	0.1−	1.1+	1999 10 22	704	0.2+	0.2−	2000 01 04	704	0.6+	0.7−
1998 08 23	704	0.0	0.1+	1999 10 22	704	0.2−	1.1−	2000 01 05	699	0.0	0.4+
1998 08 23	704	1.5+	1.6−	1999 11 16	704	0.0	0.9+	2000 01 05	699	0.5−	0.1−
1998 08 23	704	0.1−	0.4+	1999 11 16	704	0.5−	0.4+	2000 01 05	699	(2.3−	1.2+)
1998 09 14	704	0.7+	0.4−	1999 11 16	704	0.7−	0.6−	2000 01 30	704	0.1+	0.2−
1998 09 14	704	0.5+	1.7+	1999 11 16	704	(3.2−	1.6−)	2000 01 30	704	0.1−	0.2+
1998 09 14	704	1.2−	0.5+	2000 01 03	704	0.8−	0.6−	2000 01 30	704	0.2+	0.3−
1998 09 14	704	1.3+	0.6−	2000 01 03	704	0.1−	0.2+	2000 02 07	703	0.4−	0.6+
1998 09 18	704	(1.9+	2.1−)	2000 01 03	704	0.1−	0.2−	2000 02 07	703	0.1+	0.2+
1998 09 18	704	1.3−	0.5+	2000 01 03	704	0.2−	1.0+	2000 02 07	703	0.3+	0.3+
1998 09 18	704	0.3+	1.0−	2000 01 03	704	0.2−	0.5−	2000 02 07	703	0.0	0.0
1998 09 18	704	1.0−	0.1+	2000 01 04	704	0.1−	0.5−	2000 02 11	704	0.7+	0.5+
1998 09 18	704	1.2−	0.3+	2000 01 04	704	0.4−	0.3−	2000 02 11	704	0.4+	0.6+
1999 10 22	704	0.8+	0.0	2000 01 04	704	0.3+	0.3−	2000 02 11	704	0.8+	1.2+
1999 10 22	704	0.5−	0.5−	2000 01 04	704	0.2−	0.7−	2000 02 11	704	0.2+	0.7+

2000 AT₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	45.61009		(2000.0)		P		Q
<i>n</i>	0.25907169	ω	334.83120		+0.03142610		−0.99259486
<i>a</i>	2.4370031	Ω	113.18460		+0.93726895		−0.01151255
<i>e</i>	0.0893770	<i>i</i>	7.33352		+0.34718773		+0.12092520
<i>P</i>	3.80	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 05 31	327	0.1+	0.4−	2000 01 06	704	0.3−	0.5+	2000 02 10	704	0.5−	0.1−
1997 05 31	327	0.1+	0.0	2000 01 06	704	0.0	0.1+	2000 02 10	704	0.1+	0.7+
1997 05 31	327	0.5+	0.2+	2000 01 06	704	0.4−	0.5+	2000 02 10	704	0.2−	0.5+
1997 06 10	327	0.1−	0.3+	2000 01 30	704	0.5−	0.0	2000 02 10	704	1.2+	0.3−
1997 06 10	327	0.1−	0.3+	2000 01 30	704	0.5+	0.1+	2000 02 11	704	0.0	0.6+
1997 06 10	327	0.4−	0.1−	2000 01 30	704	0.2−	0.3−	2000 02 11	704	0.2−	0.1−
1999 12 06	704	0.6−	0.0	2000 02 03	704	0.1+	0.1−	2000 02 11	704	0.8+	0.2+

1999 12 06	704	0.3+	0.5−	2000 02 03	704	0.1+	0.0	2000 02 11	704	0.4+	0.2−
1999 12 06	704	0.0	0.4+	2000 02 03	704	0.0	0.0	2000 02 11	704	0.7+	1.0+
1999 12 06	704	0.4−	1.5+	2000 02 03	704	0.2−	0.0	2000 02 11	704	0.0	0.4+
1999 12 06	704	0.9+	0.0	2000 02 03	704	0.3−	0.1+	2000 02 11	704	0.2−	0.6−
2000 01 04	704	0.2−	0.2−	2000 02 05	704	0.6−	0.3+	2000 02 11	704	0.1−	0.3+
2000 01 04	704	0.4−	0.4+	2000 02 05	704	0.6−	0.2+	2000 02 11	704	0.3+	0.0
2000 01 04	704	0.2−	0.2+	2000 02 05	704	0.5+	0.2+	2000 02 11	704	0.1+	0.1−
2000 01 04	704	0.3+	0.8+	2000 02 08	704	0.4−	0.1+	2000 03 04	704	0.5+	0.2+
2000 01 05	704	0.1+	0.6−	2000 02 08	704	0.3−	0.4−	2000 03 04	704	0.5+	0.4+
2000 01 05	704	0.2−	0.8−	2000 02 08	704	0.6+	0.5−	2000 03 04	704	0.0	0.3−
2000 01 05	704	(0.1+	2.5−)	2000 02 08	704	0.0	0.4−	2000 03 04	704	0.3+	0.4−
2000 01 05	704	0.3−	1.0−	2000 02 08	704	1.3−	1.1−	2000 03 04	704	0.2−	0.3−
2000 01 06	704	0.3+	0.3−	2000 02 10	704	0.1+	0.3−				

2000 AL₅₆ = 1994 PM₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	52.03416		(2000.0)		P		Q
<i>n</i>	0.23716220	ω	103.85077		+0.49260029		−0.86910317
<i>a</i>	2.5848722	Ω	316.54430		+0.77119436		+0.45978852
<i>e</i>	0.1991936	<i>i</i>	3.73241		+0.40324212		+0.18235735
<i>P</i>	4.16	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 08 10	809	0.5+	0.4+	2000 01 06	704	0.2−	0.5+	2000 02 04	691	0.1+	0.3+
1994 08 10	809	1.4−	0.3+	2000 01 06	704	0.2−	0.8−	2000 02 11	704	0.3−	0.5−
1994 08 10	809	1.8−	0.2−	2000 01 06	704	0.4−	0.0	2000 02 11	704	0.3+	0.4−
1994 08 11	809	0.6−	0.0	2000 02 03	704	0.4−	0.7+	2000 02 11	704	0.9+	0.3−
1994 08 11	809	1.5+	0.3−	2000 02 03	704	0.1−	0.1−	2000 02 11	704	0.6+	0.4+
1994 08 11	809	1.5+	0.6+	2000 02 03	704	0.6−	0.3−	2000 02 12	691	0.5+	0.0
2000 01 04	704	0.2−	0.9−	2000 02 03	704	0.2−	1.3+	2000 02 12	691	0.7+	0.1+
2000 01 04	704	0.1+	0.4+	2000 02 03	704	0.9−	0.1+	2000 02 12	691	0.6+	0.2+
2000 01 04	704	0.3−	0.1−	2000 02 04	691	0.1+	0.3+				
2000 01 06	704	0.0	0.6−	2000 02 04	691	0.0	0.4+				

2000 AC₅₉ = 1977 DS₆ = 1998 TA₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	230.38577		(2000.0)		P		Q
<i>n</i>	0.25502128	ω	247.81640		+0.06825591		+0.99751910
<i>a</i>	2.4627393	Ω	26.11536		−0.90032311		+0.06902628
<i>e</i>	0.1426306	<i>i</i>	2.24291		−0.42983651		+0.01382063
<i>P</i>	3.86	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1977 02 19	381	0.9+	0.0	1998 10 19	691	0.4+	0.3+	2000 01 06	704	0.2+	0.2−
1977 02 19	381	0.7−	0.5+	1998 11 11	704	0.7−	0.3−	2000 02 07	703	0.3−	1.3−
1998 08 25	910	1.0−	0.5−	1998 11 11	704	0.0	1.3−	2000 02 07	703	0.1+	0.3+
1998 08 25	910	0.5+	0.0	1998 11 11	704	1.0−	0.3−	2000 02 07	703	0.7+	0.3+
1998 08 25	910	0.6+	0.3+	1998 11 11	704	(2.3−	0.7+)	2000 02 07	703	0.8−	0.2+
1998 10 13	691	0.1+	0.3+	2000 01 04	704	0.6+	0.3+	2000 02 11	704	0.6−	0.8−
1998 10 13	691	0.2+	0.3+	2000 01 04	704	0.6+	0.7−	2000 02 11	704	0.7−	0.2+
1998 10 13	691	0.1+	0.4+	2000 01 04	704	0.2+	0.7+	2000 02 11	704	0.3+	0.0
1998 10 19	691	0.3+	0.4+	2000 01 06	704	0.2−	0.1+	2000 02 11	704	0.3+	0.9+
1998 10 19	691	0.4+	0.4+	2000 01 06	704	0.3−	0.4−				

2000 AK₆₂ = 1950 DF = 1988 AN₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	353.19941		(2000.0)		P		Q
n	0.17706103	ω	195.28651		−0.83587788		−0.52667634
a	3.1408996	Ω	311.87041		+0.52288944		−0.67825624
e	0.0562865	i	11.98732		+0.16701740		−0.51242609
P	5.57	H	12.6	G	0.15	U	1

Residuals in seconds of arc (or two decimals in units of degrees)

1950 02 16	012(0.20+ 0.09+)	2000 01 06	704 0.0 0.3−	2000 02 07	691 0.4− 0.4−
1950 02 17	024 0.6− 0.5−	2000 01 06	704 0.2+ 0.4−	2000 02 08	704 0.0 0.2+
1950 02 23	024 1.1+ 0.2+	2000 01 06	704 0.1− 0.6−	2000 02 08	704 0.2+ 0.4+
1988 01 13	033 1.9− 0.6+	2000 01 06	704 0.0 0.2−	2000 02 08	704 0.1+ 0.9+
1988 01 13	033 1.6− 0.5+	2000 01 06	704 0.3− 0.8−	2000 02 08	704 0.4+ 0.5+
1997 10 31	910 0.1− 0.1+	2000 01 16	739 0.5− 0.4+	2000 02 08	704 0.8+ 1.2+
1997 10 31	910 0.1− 0.1−	2000 01 16	739 0.2+ 0.4+	2000 02 11	704 0.1+ 0.1−
1997 10 31	910 0.1− 0.0	2000 01 16	739 0.8− 0.7+	2000 02 11	704 0.2+ 0.2+
1998 12 24	699 0.9+ 0.3+	2000 01 16	739 0.5− 0.4+	2000 02 11	704 0.1+ 0.3+
1998 12 24	699 0.7+ 0.1−	2000 01 26	691 0.8− 0.0	2000 02 11	704 0.1+ 0.1+
1998 12 24	699 0.9+ 0.4−	2000 01 26	691 0.4− 0.3−	2000 02 11	704 0.3+ 0.3+
1999 11 08	699 0.7− 0.0	2000 01 26	691 0.4− 0.3−	2000 02 12	704 0.9+ 0.1+
1999 11 08	699 0.5+ 1.2−	2000 01 30	703 0.5− 0.7−	2000 02 12	704 0.4+ 0.1+
1999 11 08	699 0.1+ 0.9+	2000 01 30	703 0.3− 0.2+	2000 02 12	704 1.0+ 0.4+
1999 11 10	703 0.2+ 1.5−	2000 01 30	703 0.0 0.2−	2000 02 12	704 0.4+ 0.6+
1999 11 10	703 1.0− 0.5+	2000 01 30	703 0.1+ 0.0	2000 02 12	704 0.3+ 0.3+
1999 11 10	703 1.1+ 0.4−	2000 02 01	691 0.2− 0.6−	2000 02 13	704 0.3+ 0.3−
1999 11 10	703 0.3− 0.6+	2000 02 01	691 0.1+ 0.7−	2000 02 13	704 0.6+ 0.0
1999 11 16	704 0.2− 0.6−	2000 02 01	691 0.2− 0.7−	2000 02 13	704 0.1+ 0.7−
1999 11 16	704 0.3+ 0.3+	2000 02 02	704 0.2− 0.1+	2000 02 13	704 0.2− 0.1+
1999 11 16	704 0.3+ 0.2−	2000 02 02	704 0.1+ 0.0	2000 02 13	704 0.5− 0.4−
1999 11 16	704 0.1+ 0.4−	2000 02 02	704 0.1− 0.4+	2000 02 26	703 0.4− 0.2−
1999 11 16	704 0.3− 0.3−	2000 02 02	704 0.4− 0.4+	2000 02 26	703 0.4+ 0.3−
1999 12 04	703 0.2+ 0.1−	2000 02 02	704 0.0 0.2−	2000 02 26	703 0.1+ 0.3−
1999 12 04	703 0.1+ 0.2−	2000 02 03	704 0.1− 0.2+	2000 02 26	703 0.0 0.1−
1999 12 04	703 0.1+ 0.6+	2000 02 03	704 0.1− 0.2+	2000 03 02	106 0.5+ 0.3+
1999 12 04	703 0.2− 1.8−	2000 02 03	704 0.3+ 0.2−	2000 03 02	106 0.4+ 0.2−
1999 12 09	699 1.4− 0.6+	2000 02 03	704 0.4− 0.0	2000 03 02	106 0.0 0.5−
1999 12 09	699 0.2− 0.2+	2000 02 03	704 0.0 0.1+	2000 03 05	704 0.2+ 0.1+
1999 12 09	699 0.5+ 1.7+	2000 02 05	704 0.8− 0.2+	2000 03 05	704 0.1+ 0.1+
2000 01 04	704 0.7+ 0.2+	2000 02 05	704 0.8− 0.4+	2000 03 05	704 0.1+ 0.2+
2000 01 04	704 1.0+ 0.1+	2000 02 05	704 0.6− 0.2+	2000 03 05	704 0.5− 0.2−
2000 01 04	704 0.2− 0.4+	2000 02 05	704 0.2− 0.3+	2000 03 05	704 0.0 0.1−
2000 01 04	704 0.7+ 0.4−	2000 02 07	691 0.4− 0.5−		
2000 01 04	704 0.7+ 0.3−	2000 02 07	691 0.4− 0.6−		

2000 AS₆₉ = 1990 VO₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	273.40655		(2000.0)	P	Q
n	0.22329046	ω	93.94888	−0.94666677	+0.22289425
a	2.6908487	Ω	99.04276	−0.29570544	−0.88782259
e	0.1150996	i	13.62751	+0.12798561	−0.40260303
P	4.41	H	13.5	G 0.15	U 4

Residuals in seconds of arc

1990 11 15	809 (3.7+ 0.9+)	1999 11 04	704 0.4+ 0.8+	2000 01 05	704 0.2− 0.1−
1990 11 15	809 (5.4+ 0.2+)	1999 12 06	704 0.4+ 0.8−	2000 01 06	704 0.2− 0.9+
1990 11 15	809 (6.0+ 0.1−)	1999 12 06	704 0.3− 0.8−	2000 01 06	704 0.4− 0.2+
1990 11 17	809 (4.5+ 1.4+)	1999 12 06	704 0.3+ 0.7−	2000 01 06	704 0.2− 0.2+
1990 11 17	809 (0.8+ 3.1−)	1999 12 06	704 0.2− 0.6−	2000 01 06	704 0.6+ 0.2+
1990 11 17	809 (3.6+ 0.1+)	1999 12 06	704 0.1+ 0.2−	2000 01 06	704 0.4− 0.5+
1990 11 21	809 0.0 0.2+	1999 12 14	704 1.0− 0.8+	2000 02 02	704 0.7+ 0.4+
1990 11 21	809 (4.6− 0.7+)	1999 12 14	704 0.4− 0.2+	2000 02 02	704 1.4+ 0.5−
1990 11 21	809 (5.8− 0.8+)	1999 12 14	704 0.2− 0.1−	2000 02 02	704 0.2− 0.4+
1999 11 04	704 0.4− 0.3−	1999 12 14	704 0.3+ 0.2−	2000 02 02	704 0.3+ 0.1+
1999 11 04	704 1.1+ 0.2+	2000 01 05	704 0.1− 0.5+	2000 02 03	704 0.2+ 0.0
1999 11 04	704 0.0 0.3+	2000 01 05	704 0.2− 0.1−	2000 02 03	704 0.5− 0.7−
1999 11 04	704 0.7+ 0.1−	2000 01 05	704 0.3− 0.0	2000 02 03	704 1.2− 0.8−

2000 AA₈₀ = 1991 GD₁₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	216.96544		(2000.0)		P		Q	
<i>n</i>	0.08231029	ω	83.66152		−0.28800779		+0.95749302	
<i>a</i>	5.2339951	Ω	169.55724		−0.90995076		−0.26839737	
<i>e</i>	0.0247680	<i>i</i>	5.09029		−0.29839761		−0.10568804	
<i>P</i>	11.97	<i>H</i>	10.8		<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc								
1991 04 11	033 0.8+	0.5−	1997 11 06	704 (7.3−	1.9−)	2000 01 05	704 0.0	1.3−
1991 04 11	033 0.4−	0.1−	1999 10 10	704 1.0−	0.1+	2000 01 05	704 0.8+	0.5+
1991 04 12	033 0.6−	0.1+	1999 10 10	704 0.5−	0.1−	2000 01 06	704 0.4+	0.4−
1997 10 29	704 1.1+	1.4−	1999 10 10	704 0.4−	0.7+	2000 01 06	704 0.5+	0.5−
1997 10 29	704 (3.0+	0.3+)	1999 10 10	704 0.4−	0.1+	2000 01 06	704 0.1+	0.9−
1997 10 29	704 (3.5+	1.2−)	1999 10 10	704 1.5−	0.1−	2000 01 07	704 0.3+	0.1+
1997 10 29	704 0.3+	1.5−	1999 12 14	704 0.2+	1.3+	2000 01 07	704 0.0	0.4−
1997 10 30	704 (3.0+	1.9−)	1999 12 14	704 1.2−	0.7+	2000 01 07	704 0.1−	0.0
1997 10 30	704 (3.1+	1.4−)	1999 12 14	704 0.2−	1.7+	2000 01 07	704 0.4+	0.3+
1997 10 30	704 (3.7+	2.4−)	1999 12 14	704 0.1+	0.6+	2000 01 07	704 0.6+	0.1−
1997 10 30	704 (3.1+	0.4+)	1999 12 14	704 0.1−	1.6+	2000 02 02	704 0.7+	0.1+
1997 10 31	704 0.2−	0.0	2000 01 05	704 0.2+	0.9−	2000 02 02	704 0.4+	0.2−
1997 10 31	704 0.9−	0.8+	2000 01 05	704 0.4−	0.4−	2000 02 02	704 1.0−	0.3+
1997 10 31	704 (2.5−	0.9−)	2000 01 05	704 0.0	0.4−	2000 02 03	704 0.2−	0.6+
1997 10 31	704 0.2+	0.8+	2000 01 05	704 0.3+	0.2−	2000 02 03	704 0.3+	0.3+
1997 10 31	704 0.4−	0.6+	2000 01 05	704 0.4+	0.7−	2000 02 03	704 0.6+	0.4+
1997 11 06	704 (7.2−	1.7+)	2000 01 05	704 0.3+	0.1+	2000 02 03	704 0.3−	0.7−
1997 11 06	704 (2.6−	0.1+)	2000 01 05	704 0.2−	1.0−			
1997 11 06	704 (4.8−	0.7−)	2000 01 05	704 0.4+	0.5−			

2000 AK₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	154.51636		(2000.0)	P	Q
n	0.26737047	ω	187.43759	+0.75809925	+0.63913410
a	2.3863113	Ω	131.98896	−0.58899030	+0.75634107
e	0.1042164	i	10.04072	−0.27995706	+0.13948399
P	3.69	H	13.7	G 0.15	U 3

Residuals in seconds of arc

1997 03 02	327 0.3− 0.2−	1998 09 24	699 0.9− 0.8+	2000 01 06	704 0.4− 0.8−
1997 03 02	327 0.1− 0.2−	1999 10 20	704 0.9+ 0.4−	2000 01 28	704 1.0+ 0.2+
1997 03 02	327 0.2+ 0.3−	1999 10 20	704 1.1+ 0.0	2000 01 28	704 0.1− 1.6+
1998 08 17	704 0.6+ 0.1−	1999 10 20	704 0.3+ 0.5+	2000 01 28	704 0.1− 0.8+
1998 08 17	704 1.1− 0.2+	1999 12 14	704 0.8+ 0.9−	2000 01 28	704 0.7− 0.2+
1998 08 17	704 0.1− 0.4−	1999 12 14	704 0.2− 0.5−	2000 02 02	704 0.5+ 0.3−
1998 08 17	704 0.0 0.2−	1999 12 14	704 0.0 0.0	2000 02 02	704 0.9− 0.9+
1998 08 17	704 0.2− 0.0	1999 12 14	704 0.7+ 1.3−	2000 02 02	704 0.1− 0.7−
1998 08 27	699 0.3+ 0.1−	1999 12 14	704 0.8− 1.0−	2000 02 02	704 0.1+ 0.9+
1998 08 27	699 0.5+ 0.3−	2000 01 05	704 0.1− 0.3+	2000 02 03	704 0.2− 0.2−
1998 08 27	699 0.2+ 0.3−	2000 01 05	704 0.5− 0.3−	2000 02 03	704 0.3+ 0.4+
1998 09 01	327 0.3+ 0.1−	2000 01 05	704 0.4− 0.1−	2000 02 03	704 0.1+ 0.3+
1998 09 01	327 0.4+ 0.0	2000 01 05	704 0.1− 0.2+	2000 02 03	704 0.3− 0.3+
1998 09 01	327 0.2+ 0.1+	2000 01 05	704 0.3− 0.1−	2000 02 03	704 0.2− 0.5−
1998 09 24	699 0.6− 0.3−	2000 01 06	704 0.2+ 0.1−		
1998 09 24	699 0.4+ 0.9+	2000 01 06	704 0.1+ 0.0		

2000 AE₉₅ = 1991 VY₁₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	70.76263		(2000.0)	P	Q
n	0.26247835	ω	293.84242	+0.46562675	−0.88067464
a	2.4158709	Ω	128.11935	+0.84693590	+0.41486088
e	0.0931026	i	6.36371	+0.25669304	+0.22869766
P	3.76	H	14.9	G 0.15	U 2

2000 APR. 18

M.P.C. 40091

Residuals in seconds of arc

1991 11 12	809	1.8−	0.4−	2000 01 16	120	0.6−	0.6−	2000 02 11	704	0.1−	0.2−
1991 11 12	809	0.0	0.3+	2000 01 17	120	1.1+	0.9−	2000 02 11	704	0.2+	0.6+
1991 11 12	809	1.9+	0.1−	2000 01 17	120	0.6−	0.2−	2000 02 11	704	0.2−	0.1−
1998 08 17	704	0.7+	1.1+	2000 01 25	120	0.6−	0.5+	2000 02 11	704	0.6+	0.4+
1998 08 17	704	0.1−	0.1+	2000 01 26	120	0.4−	0.4−	2000 02 28	704	0.6+	0.1−
1998 08 17	704	0.8−	0.8−	2000 01 26	120	(2.2+	0.8−)	2000 02 28	704	0.2−	0.1−
1998 08 17	704	(7.1−	2.8−)	2000 02 03	704	0.4−	0.2+	2000 02 28	704	0.1−	0.0
2000 01 04	704	0.5+	1.2+	2000 02 03	704	0.8+	0.8+	2000 02 28	704	0.3−	0.5+
2000 01 04	704	0.3+	0.3−	2000 02 03	704	0.3+	0.0	2000 02 28	704	0.5−	0.1−
2000 01 04	704	0.2+	0.1−	2000 02 03	704	0.0	0.2−	2000 03 04	704	0.2+	0.1+
2000 01 04	704	1.5−	0.6−	2000 02 03	704	0.0	0.1+	2000 03 04	704	0.1+	0.3+
2000 01 07	704	1.2+	0.5+	2000 02 04	691	0.2−	0.3−	2000 03 04	704	0.4−	0.4−
2000 01 07	704	1.0+	0.3+	2000 02 04	691	0.0	0.2−	2000 03 08	608	0.1−	0.1−
2000 01 07	704	0.8−	0.6+	2000 02 04	691	0.0	0.2−	2000 03 08	608	0.0	0.3−
2000 01 07	704	0.1−	0.7−	2000 02 11	704	0.2+	0.2+	2000 03 08	608	0.3+	0.0

2000 AD₉₇ = 1953 RF₂ = 1974 DX = 1989 EL₈ = 1990 QK₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	332.33631		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26698378	ω	217.37540	−0.92779420	+0.37122019
<i>a</i>	2.3886149	Ω	344.28877	−0.30029709	−0.80239702
<i>e</i>	0.2134980	<i>i</i>	7.92373	−0.22140368	−0.46728428
<i>P</i>	3.69	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1953 09 06	675	1.3+	0.4−	2000 01 07	704	0.4+	1.1+	2000 03 09	704	0.4+	0.7+
1953 09 06	675	0.2−	0.4−	2000 01 10	699	0.1+	0.2+	2000 03 09	704	0.6+	0.5+
1974 02 16	095	(1.6+	3.2−)	2000 01 10	699	0.2−	0.5+	2000 03 09	704	0.5+	0.8−
1989 03 10	364	1.1−	0.6−	2000 01 10	699	0.0	0.8+	2000 03 09	704	0.0	0.5+
1989 03 10	364	(0.1−	2.7+)	2000 02 04	704	1.2+	0.2+	2000 03 09	704	0.7+	0.5+
1990 08 20	809	0.3+	0.7−	2000 02 04	704	0.8+	0.3−	2000 03 11	704	0.1+	0.4+
1990 08 20	809	0.2+	0.2+	2000 02 04	704	1.0+	1.1−	2000 03 11	704	0.5−	0.3+
1990 08 20	809	0.2+	0.9−	2000 02 04	704	0.2+	0.0	2000 03 11	704	0.4−	0.3+
1993 06 18	808	0.5−	0.3+	2000 02 04	704	0.9−	0.7−	2000 03 11	704	0.1−	0.2+
1993 06 18	808	(1.8+	3.9−)	2000 02 11	704	1.8−	0.5−	2000 03 11	704	0.5−	0.2+
1999 11 10	703	(4.9+	2.0−)	2000 02 11	704	0.3−	0.0	2000 03 15	636	0.8−	0.2+
1999 11 10	703	0.1+	0.3+	2000 02 11	704	0.1+	0.7+	2000 03 15	636	1.1−	0.1+
1999 11 10	703	0.3−	0.3−	2000 02 12	628	0.0	0.3+	2000 03 15	636	0.9−	0.0
1999 11 10	703	0.7−	0.5+	2000 02 12	628	0.3−	0.5+	2000 03 15	691	0.7−	0.4−
1999 11 16	704	0.6−	0.6−	2000 02 12	628	0.4−	0.5+	2000 03 15	691	0.7−	0.4−
1999 11 16	704	0.4−	0.3−	2000 02 12	628	0.2−	0.3+	2000 03 15	691	0.6−	0.5−
1999 11 16	704	0.4−	0.6−	2000 02 27	649	(2.7−	0.1+)	2000 04 04	699	0.1−	0.2−
1999 11 16	704	0.1+	1.0−	2000 02 27	649	(2.9−	0.1+)	2000 04 04	699	0.1−	0.3−
1999 11 16	704	0.3−	0.6−	2000 02 27	649	(3.1−	0.2+)	2000 04 04	699	0.0	0.4−
1999 11 17	703	0.5+	0.1+	2000 02 28	120	1.2−	0.3−	2000 04 04	699	0.0	0.2−
1999 11 17	703	0.5+	0.6−	2000 02 28	120	1.1−	0.6−	2000 04 05	704	0.5+	0.1+
1999 11 17	703	0.4−	0.5+	2000 02 29	704	0.3+	0.2+	2000 04 05	704	0.8+	0.2−
1999 11 17	703	0.4+	0.7+	2000 02 29	704	0.1−	0.4+	2000 04 05	704	0.8+	0.5−
1999 12 15	704	0.0	1.4−	2000 02 29	704	0.1−	0.6+	2000 04 05	704	1.0+	0.8−
1999 12 15	704	0.4−	0.0	2000 02 29	704	0.5+	0.5+	2000 04 05	704	0.3−	0.5−
1999 12 15	704	0.3−	0.8−	2000 03 03	704	0.3+	0.0	2000 04 08	704	0.3+	0.5+
1999 12 15	704	0.1−	0.0	2000 03 03	704	0.3+	0.1−	2000 04 08	704	0.8+	0.0
2000 01 04	704	0.4−	0.4−	2000 03 03	704	0.2+	0.2−	2000 04 08	704	0.9+	0.8−
2000 01 04	704	0.4−	0.3−	2000 03 03	704	0.3+	0.4−	2000 04 08	704	1.0+	0.4−
2000 01 04	704	0.1+	0.3+	2000 03 03	704	0.3+	0.5−	2000 04 08	704	0.2+	1.5−
2000 01 04	704	0.8−	0.3−	2000 03 03	608	0.2+	0.1+	2000 04 10	704	0.4+	0.4+
2000 01 04	704	0.4−	0.6−	2000 03 03	608	0.2+	0.4+	2000 04 10	704	1.2+	0.3−
2000 01 07	704	0.0	0.9+	2000 03 03	608	0.0	0.0	2000 04 10	704	1.0+	0.5−
2000 01 07	704	0.9+	0.6+	2000 03 06	704	0.2−	0.3+	2000 04 10	704	0.3−	1.1−
2000 01 07	704	0.1−	0.2+	2000 03 06	704	0.3−	0.8+				
2000 01 07	704	0.7+	1.5+	2000 03 06	704	0.2−	0.2+				

2000 AC₁₂₆ = 1986 OK

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	193.95270		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.25543126	ω	166.39394	+0.60687469	+0.78141384
<i>a</i>	2.4601034	Ω	140.68434	−0.74898292	+0.62340961
<i>e</i>	0.2614798	<i>i</i>	13.25217	−0.26594680	+0.02743832
<i>P</i>	3.86	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1986 07 27	413	1.1+	1.8+	2000 01 05	704	0.7+	0.7−	2000 02 02	704	0.5+	0.5+
1986 07 27	413	(0.3+	4.4+)	2000 01 05	704	0.2−	0.4−	2000 02 26	703	0.9−	0.6+
1986 08 01	413	0.5−	1.7−	2000 01 05	704	0.5−	0.6−	2000 02 26	703	0.2+	1.3+
1986 08 01	413	0.6−	0.7+	2000 01 05	704	0.0	0.6−	2000 02 26	703	0.1+	0.6−
1998 11 13	704	0.4+	0.0	2000 01 07	704	0.0	0.2−	2000 02 26	703	0.5−	1.5+
1998 11 13	704	0.5+	0.1+	2000 01 07	704	0.2−	0.3−	2000 02 26	703	0.2+	1.7+
1998 11 13	704	0.3−	0.5−	2000 01 07	704	0.0	0.4−	2000 02 26	703	0.3+	1.4+
1998 11 13	704	0.1+	0.2−	2000 01 07	704	0.1−	0.4−	2000 02 26	703	1.2+	0.1−
1998 11 13	704	0.4−	0.9+	2000 01 07	704	0.2+	0.2−	2000 02 26	703	0.3+	0.1+
1998 11 21	703	0.5−	0.2+	2000 01 30	703	0.1−	0.4+	2000 03 05	704	0.1+	1.0−
1998 11 21	703	0.4−	0.1+	2000 01 30	703	1.0−	0.0	2000 03 05	704	0.1+	0.0
1998 11 21	703	0.2−	0.2+	2000 01 30	703	0.2−	0.5+	2000 03 05	704	0.1−	0.2+
1999 02 04	704	0.1−	0.6−	2000 01 30	703	0.1−	0.0	2000 03 05	704	0.6+	0.5−
1999 02 04	704	0.6−	0.4+	2000 02 02	704	0.3−	0.0	2000 03 05	704	0.7−	0.4+
1999 02 04	704	0.6+	0.7−	2000 02 02	704	0.3−	0.5+	2000 03 10	691	0.3−	1.0−
1999 02 04	704	0.3+	1.3−	2000 02 02	704	0.0	0.3+	2000 03 10	691	0.3+	0.9−
1999 02 04	704	1.2+	1.2+	2000 02 02	704	0.1+	0.3+	2000 03 10	691	0.3+	0.9−

2000 AW₁₃₇ = 1993 QD₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	213.57630		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.24289000	ω	182.28169	+0.80501969	+0.56824660
<i>a</i>	2.5440734	Ω	141.42183	−0.53987524	+0.82079453
<i>e</i>	0.1263287	<i>i</i>	15.85918	−0.24592281	+0.05824207
<i>P</i>	4.06	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1993 08 18	033	1.1+	0.2+	2000 01 08	704	0.2+	0.1+	2000 03 12	704	0.7−	0.9−
1993 08 19	033	0.1+	0.1+	2000 02 02	703	0.1−	0.3−	2000 03 14	608	0.4−	0.8−
1993 08 19	033	1.3−	1.1+	2000 02 02	703	0.2−	0.1+	2000 03 14	608	0.2+	0.6−
1998 12 19	704	0.1+	0.7+	2000 02 02	703	0.1−	0.3−	2000 03 14	608	0.1−	0.8−
1998 12 19	704	0.6+	0.6−	2000 02 02	703	0.2−	0.4−	2000 03 28	704	0.0	0.0
1998 12 19	704	0.3+	0.0	2000 02 04	704	0.2+	0.1+	2000 03 28	704	0.1+	0.7+
1998 12 19	704	0.3+	0.6+	2000 02 04	704	0.2+	0.4+	2000 03 28	704	0.2+	0.3−
1998 12 19	704	1.4−	0.1+	2000 02 04	704	0.2+	0.6+	2000 03 28	704	0.3−	0.3−
1999 12 09	703	0.3+	1.0−	2000 02 04	704	0.1+	0.3+	2000 04 04	704	0.1+	0.2+
1999 12 09	703	0.2−	0.6+	2000 02 04	704	0.2+	1.5+	2000 04 04	704	0.1+	0.2+
1999 12 09	703	0.2+	1.2+	2000 03 05	704	0.1−	0.1+	2000 04 04	704	0.3+	0.2+
1999 12 09	703	0.3−	0.7−	2000 03 05	704	0.1−	0.3−	2000 04 04	704	0.3+	0.1−
2000 01 04	704	0.1+	0.9+	2000 03 05	704	0.0	0.3+	2000 04 04	704	0.4+	0.0
2000 01 04	704	0.2−	0.8+	2000 03 05	704	0.1−	0.4+	2000 04 08	704	0.8+	0.3+
2000 01 04	704	0.3+	0.2−	2000 03 05	704	0.2−	0.1+	2000 04 08	704	0.4+	0.9+
2000 01 08	704	0.3−	0.0	2000 03 12	704	0.2−	0.4−	2000 04 08	704	0.5+	0.7+
2000 01 08	704	0.3+	0.2−	2000 03 12	704	0.5−	0.6−	2000 04 08	704	0.6+	0.7+
2000 01 08	704	0.4+	0.0	2000 03 12	704	0.9−	0.8−	2000 04 08	704	0.1−	0.7+
2000 01 08	704	0.4−	0.1+	2000 03 12	704	0.6−	0.9−				

Residuals in seconds of arc

1996 04 19	566	0.3−	0.7−	2000 02 11	704	0.4+	0.1+	2000 03 28	704	0.3+	0.4−
1996 04 19	566	0.4−	0.7−	2000 02 11	704	0.3−	0.5+	2000 03 28	704	0.1−	0.2−
1996 04 19	566	0.8−	1.2−	2000 03 02	703	0.3−	0.1+	2000 04 02	699	0.5−	0.3−
1998 11 10	704	0.6−	1.6−	2000 03 02	703	0.0	0.0	2000 04 02	699	0.4−	0.2+
1998 11 10	704	0.9−	1.3+	2000 03 02	703	0.1+	0.0	2000 04 02	699	0.3−	0.3+
1998 11 10	704	1.2−	0.2−	2000 03 02	703	0.0	0.1+	2000 04 02	699	0.4−	0.2+
1998 11 10	704	1.1+	0.9−	2000 03 11	699	0.5+	0.1−	2000 04 05	704	0.2−	0.9+
1998 12 14	704	0.3+	0.3+	2000 03 11	699	0.4+	0.1−	2000 04 05	704	0.2+	0.3+
1998 12 14	704	0.2+	0.5+	2000 03 11	699	0.5+	0.2−	2000 04 05	704	0.1−	0.5+
1998 12 14	704	0.2+	0.9−	2000 03 11	699	0.5+	0.1−	2000 04 05	704	0.0	0.3+
1998 12 14	704	0.0	0.8+	2000 03 12	703	0.3−	0.4+	2000 04 05	704	0.7+	0.0
1998 12 17	704	0.0	0.7+	2000 03 12	703	0.2−	0.3+	2000 04 07	608	0.9+	0.4−
1998 12 17	704	(2.7+	0.2−)	2000 03 12	703	0.4−	0.1+	2000 04 07	608	0.7+	0.3−
1998 12 17	704	0.5+	1.4−	2000 03 12	703	0.3−	0.3+	2000 04 07	608	0.9+	0.3−
1998 12 17	704	0.7+	0.2+	2000 03 12	704	0.1+	0.1+	2000 04 08	704	0.4−	0.1−
1998 12 17	704	0.2−	0.5+	2000 03 12	704	0.1+	0.2+	2000 04 08	704	0.2−	0.1+
2000 01 04	704	0.1+	0.2+	2000 03 12	704	0.2−	0.1−	2000 04 08	704	0.2−	0.1+
2000 01 04	704	0.2−	0.9−	2000 03 12	704	0.1+	0.3+	2000 04 08	704	0.2−	0.2−
2000 01 04	704	0.7+	0.8−	2000 03 12	704	0.0	0.1−	2000 04 08	704	0.3−	0.2−
2000 01 08	704	0.1−	0.6−	2000 03 26	699	0.2−	0.1−	2000 04 10	704	0.4−	0.0
2000 01 08	704	0.4−	0.1+	2000 03 26	699	0.4−	0.2−	2000 04 10	704	0.2+	0.0
2000 01 08	704	0.1+	0.1−	2000 03 26	699	0.4−	0.1−	2000 04 10	704	0.0	0.0
2000 01 08	704	0.2−	0.8+	2000 03 26	699	0.2−	0.1−	2000 04 10	704	0.7+	0.4+
2000 01 08	704	0.1−	0.2+	2000 03 28	704	0.0	0.1+	2000 04 10	704	0.2+	0.9+
2000 02 11	704	1.4+	0.1−	2000 03 28	704	0.3−	0.1+				

2000 AB₁₃₈ = 1991 RQ₃₅ = 1998 VR₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	302.14638		(2000.0)	P	Q
<i>n</i>	0.28876911	ω	225.53532	−0.53978885	+0.84147037
<i>a</i>	2.2669167	Ω	11.86127	−0.73612175	−0.45825593
<i>e</i>	0.0812270	<i>i</i>	6.58515	−0.40835374	−0.28623263
<i>P</i>	3.41	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1991 09 13	675	0.3−	0.0	2000 01 13	699	0.3−	0.8+	2000 04 02	699	0.1−	0.3−
1991 09 13	675	0.7+	0.7−	2000 02 11	704	1.6+	0.7−	2000 04 05	704	0.0	0.2+
1998 10 19	699	0.1+	0.4+	2000 02 11	704	1.6+	0.1+	2000 04 05	704	0.2+	0.2−
1998 10 19	699	0.0	1.8+	2000 02 11	704	0.9−	0.7+	2000 04 05	704	0.4−	0.5+
1998 10 19	699	1.0+	0.6+	2000 02 27	703	0.2+	0.3−	2000 04 05	704	0.1−	0.0
1998 11 10	704	0.0	0.1+	2000 02 27	703	0.4+	0.1+	2000 04 05	704	0.1−	0.1+
1998 11 10	704	0.1+	0.8−	2000 02 27	703	0.3−	0.1−	2000 04 05	704	0.4+	0.1+
1998 11 10	704	1.1+	0.3−	2000 02 27	703	0.2−	0.1−	2000 04 05	704	0.2+	0.2+
1998 11 10	704	0.3−	0.6−	2000 03 08	704	0.4+	0.3−	2000 04 05	704	0.0	0.3+
1998 11 10	704	(2.8−	1.7−)	2000 03 08	704	0.2−	0.4−	2000 04 05	704	0.1+	0.3+
1998 11 11	704	0.2+	0.3−	2000 03 08	704	0.6+	0.4−	2000 04 05	704	0.4+	0.5+
1998 11 11	704	1.1−	1.0−	2000 03 08	704	0.1+	0.0	2000 04 06	704	0.1+	0.0
1998 11 11	704	0.9−	0.2+	2000 03 08	704	0.3+	0.0	2000 04 06	704	0.1−	0.2+
1998 11 11	704	0.7+	0.4+	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.1−	0.6+
1998 11 11	704	0.9−	0.1+	2000 03 11	704	0.0	0.3−	2000 04 06	704	0.2−	0.4+
2000 01 04	704	0.9+	1.2+	2000 03 11	704	0.1−	0.4−	2000 04 06	691	0.3−	0.1−
2000 01 04	704	0.5−	0.4+	2000 03 11	704	0.7+	0.5−	2000 04 06	691	0.4−	0.1−
2000 01 04	704	0.6+	0.5+	2000 03 11	704	(2.9−	0.8−)	2000 04 06	691	0.4−	0.0
2000 01 08	704	1.0−	0.7−	2000 03 26	699	0.5−	0.3−	2000 04 10	704	0.1−	0.3+
2000 01 08	704	0.1−	0.1+	2000 03 26	699	0.7−	0.1−	2000 04 10	704	0.3+	0.3−
2000 01 08	704	0.1−	0.6−	2000 03 26	699	0.7−	0.0	2000 04 10	704	0.1−	0.0
2000 01 08	704	0.1+	1.0−	2000 03 26	699	0.4−	0.1+	2000 04 10	704	0.0	0.1+
2000 01 08	704	0.2−	0.5−	2000 04 02	699	0.1−	0.1−	2000 04 10	704	0.2−	0.3−
2000 01 13	699	1.0−	0.1+	2000 04 02	699	0.1+	0.1+				
2000 01 13	699	0.4+	0.3−	2000 04 02	699	0.3+	0.3+				

2000 AC₁₄₀ = 1996 VP₂₈ = 1997 CH₁₁

Id. A. Doppler (MPC 39349), M. E. Sansaturio (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	64.99047		(2000.0)	P	Q
<i>n</i>	0.27616936	ω	224.23282	+0.98101062	+0.16527044
<i>a</i>	2.3353522	Ω	125.98804	−0.12399582	+0.93685426
<i>e</i>	0.2417864	<i>i</i>	7.20684	−0.14914157	+0.30820410
<i>P</i>	3.57	<i>H</i>	15.1	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1996 11 12	691	0.4−	0.3+	1999 10 04	703	0.2−	0.3+	1999 12 03	704	0.1−	1.2−
1996 11 12	691	0.6−	0.3+	1999 10 09	704	0.4−	0.5−	1999 12 03	704	0.3+	0.2−
1996 11 12	691	0.5−	0.3+	1999 10 09	704	0.3−	0.2−	1999 12 03	704	0.0	1.0−
1996 11 13	691	0.2+	0.0	1999 10 09	704	0.4−	0.7−	1999 12 03	704	0.6−	0.2−
1996 11 13	691	0.2+	0.1+	1999 10 09	704	0.6−	0.5−	1999 12 08	699	1.8+	1.7+
1996 11 13	691	0.3+	0.3−	1999 10 09	704	1.2−	0.8−	1999 12 08	699	0.2+	1.6+
1997 02 03	691	0.0	0.0	1999 10 31	703	0.2+	1.4−	1999 12 08	699	0.4+	1.8+
1997 02 03	691	0.0	0.3−	1999 10 31	703	0.2−	1.0+	1999 12 14	704	0.6−	0.2+
1997 02 03	691	0.3−	0.2−	1999 10 31	703	0.0	1.3+	1999 12 14	704	0.5−	0.3+
1997 02 07	691	0.7+	0.0	1999 10 31	703	0.3−	0.5+	1999 12 14	704	0.2+	0.3+
1997 02 07	691	0.7+	0.4−	1999 11 06	704	0.2+	0.0	1999 12 14	704	0.6+	0.1+
1997 02 07	691	0.6−	0.2−	1999 11 06	704	0.2+	0.4−	1999 12 14	704	0.0	0.1−
1998 04 23	704	1.1+	1.6+	1999 11 06	704	0.4−	0.2−	2000 01 05	704	0.4+	0.4−
1998 04 23	704	0.1+	0.7+	1999 11 06	704	0.4−	0.0	2000 01 05	704	1.0+	0.4−
1998 04 23	704	0.1+	0.1+	1999 11 06	704	0.3+	0.3−	2000 01 05	704	1.0−	1.0−
1998 04 23	704	0.3−	0.5+	1999 11 13	699	0.6−	0.3+	2000 01 05	704	0.5+	0.3−
1999 09 13	703	0.3−	1.0+	1999 11 13	699	0.1−	0.2+	2000 01 05	704	0.9+	0.2+
1999 09 13	703	0.3+	0.2+	1999 11 13	699	0.3−	0.4+	2000 01 08	704	0.1−	0.1−
1999 09 13	703	1.3+	0.1+	1999 11 17	703	0.2−	0.3+	2000 01 08	704	0.4+	0.4+
1999 09 13	703	0.3+	0.1+	1999 11 17	703	0.3−	0.2−	2000 01 08	704	0.2+	0.5−
1999 10 04	703	0.1+	0.3+	1999 11 17	703	0.2−	0.4+	2000 01 08	704	0.7+	0.5+
1999 10 04	703	0.1+	0.1+	1999 11 17	703	0.4−	0.0	2000 01 08	704	0.2+	0.1+
1999 10 04	703	0.0	0.2+	1999 12 03	704	0.1+	0.6−				

2000 AA₁₄₂ = 1980 FO₆

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	1.83057		(2000.0)	P	Q
<i>n</i>	0.29283322	ω	298.21952	−0.80812826	−0.58812283
<i>a</i>	2.2458935	Ω	205.79665	+0.56304805	−0.75527663
<i>e</i>	0.0462929	<i>i</i>	4.25034	+0.17293239	−0.28925553
<i>P</i>	3.37	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1980 03 23	809	0.2−	0.5−	2000 01 05	704	0.3+	0.6−	2000 02 08	704	0.2−	1.1+
1997 04 01	809	0.3−	0.5+	2000 01 05	704	0.2+	0.5+	2000 02 08	704	0.1−	0.5+
1997 04 01	809	0.2+	0.4+	2000 01 05	704	0.6−	0.6−	2000 02 08	704	0.1−	0.2+
1997 04 01	809	0.2+	0.4−	2000 01 05	704	0.2−	0.2−	2000 02 12	704	0.4+	0.2+
1998 08 17	704	0.2−	1.2+	2000 01 05	704	0.9−	0.3−	2000 02 12	704	0.4+	0.4+
1998 08 17	704	0.4+	0.2+	2000 01 08	704	0.8−	0.0	2000 02 12	704	0.6+	0.2+
1998 08 17	704	0.3−	0.7−	2000 01 08	704	0.3−	0.3−	2000 02 12	704	0.0	0.4+
1998 08 17	704	0.3−	0.3+	2000 01 08	704	0.4−	0.1+	2000 02 12	704	0.0	0.1−
1998 08 17	704	0.1−	1.3+	2000 01 08	704	0.5+	0.2+	2000 02 27	703	0.1−	0.1−

2000 APR. 18

M.P.C. 40093

2000 AO₁₄₂ = 1998 WG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	337.24367	ω	262.28158	-0.98106969	-0.12089057		
<i>a</i>	2.9950890	Ω	270.68567	+0.17209612	-0.90247944		
<i>e</i>	0.0336319	<i>i</i>	8.70214	-0.08879858	-0.41342029		
<i>P</i>	5.18	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 11	704	0.1+	0.7+	1998 12 11	699	0.2-	0.4+	2000 01 08	704	0.4+	0.9-
1998 11 11	704	0.4+	0.0	1998 12 11	699	0.2+	1.0+	2000 02 06	704	0.1+	0.0
1998 11 11	704	0.4-	0.2-	1999 01 22	699	0.6+	1.4+	2000 02 06	704	0.1+	0.0
1998 11 11	704	1.5+	1.2+	1999 01 22	699	(2.5-	1.0+)	2000 02 06	704	0.3+	0.1-
1998 11 18	704	0.0	0.1-	1999 01 22	699	0.1-	1.0+	2000 02 06	704	0.0	0.4+
1998 11 18	704	0.3-	0.4-	1999 12 05	704	0.4-	0.1-	2000 02 06	704	0.0	0.6+
1998 11 18	704	1.4-	0.5+	1999 12 05	704	0.8-	0.4+	2000 02 13	704	(0.2-	2.7+)
1998 11 18	704	0.9-	0.2-	1999 12 05	704	0.2-	0.8+	2000 02 13	704	(1.1+	2.7+)
1998 11 18	704	1.2-	0.2-	1999 12 05	704	0.5-	1.0+	2000 02 13	704	1.1-	1.0+
1998 11 20	699	0.5-	0.7+	1999 12 05	704	0.6-	0.7+	2000 02 13	704	1.1-	0.4+
1998 11 20	699	0.0	0.2+	1999 12 14	704	0.2-	0.0	2000 03 06	704	0.2+	0.3+
1998 11 20	699	0.1-	0.7+	1999 12 14	704	0.2-	0.2+	2000 03 06	704	0.2+	0.4+
1998 11 21	704	0.7+	0.8-	1999 12 14	704	0.1-	0.4-	2000 03 06	704	0.4+	0.2+
1998 11 21	704	1.7-	0.1+	1999 12 14	704	0.6+	0.3-	2000 03 06	704	1.3+	0.4+
1998 11 21	704	0.3+	0.7-	2000 01 05	704	0.8+	0.5-	2000 03 27	699	0.6-	0.1+
1998 11 21	704	0.8+	0.7+	2000 01 05	704	0.2-	0.6-	2000 03 27	699	0.2-	0.6+
1998 11 21	704	0.2+	0.6-	2000 01 05	704	0.7+	1.7-	2000 03 27	699	0.2-	0.3+
1998 11 24	704	0.1-	0.2-	2000 01 05	704	0.2-	1.3-	2000 03 27	699	0.1+	0.3+
1998 11 24	704	0.3+	1.7-	2000 01 05	704	0.5-	1.5-	2000 04 02	699	0.1+	0.1+
1998 11 24	704	1.5+	1.7-	2000 01 08	704	0.6+	0.1+	2000 04 02	699	0.3-	0.2+
1998 11 24	704	0.2+	1.1-	2000 01 08	704	0.1+	0.1-	2000 04 02	699	0.1-	0.1+
1998 11 24	704	(2.9+	3.2-)	2000 01 08	704	0.6+	0.9-	2000 04 02	699	0.1+	0.1+
1998 12 11	699	0.3+	0.9+	2000 01 08	704	0.3+	0.5-				

2000 AC₁₅₃ = 1998 WL₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	302.23964	ω	157.24175	-0.25449091	+0.96294336		
<i>a</i>	0.30164737	Ω	97.92235	-0.90057055	-0.20232590		
<i>e</i>	2.2019275	<i>i</i>	5.17284	-0.35243022	-0.17833767		
<i>P</i>	3.27	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 23	699	0.8-	0.1+	2000 01 10	704	(0.4-	2.4-)	2000 04 05	704	0.0	0.0
1998 11 23	699	0.6-	0.0	2000 01 10	704	0.3+	0.7-	2000 04 08	704	0.1-	0.1-
1998 11 23	699	0.1+	0.5+	2000 01 10	704	0.6-	1.1-	2000 04 08	704	1.5+	0.2-
1998 11 24	704	0.5-	0.3-	2000 01 10	704	0.4+	0.4-	2000 04 08	704	0.3-	0.4+
1998 11 24	704	0.2-	0.0	2000 02 08	704	0.3+	0.1+	2000 04 08	704	0.3-	0.3-
1998 11 24	704	0.4-	0.4-	2000 02 08	704	0.5+	0.1-	2000 04 09	608	1.0+	0.5-
1998 11 24	704	0.4+	1.3+	2000 02 08	704	0.9+	0.3+	2000 04 09	608	0.3+	1.6-
1998 11 24	704	0.4-	1.6+	2000 03 08	704	0.5+	0.4-	2000 04 09	608	0.8+	0.6-
1998 12 08	699	0.2+	0.3+	2000 03 08	704	0.7+	1.3+	2000 04 10	704	0.3-	0.1+
1998 12 08	699	1.0-	0.3+	2000 03 08	704	0.2-	0.6+	2000 04 10	704	0.1-	0.2+
1998 12 08	699	1.4+	0.7-	2000 03 08	704	1.3-	0.1+	2000 04 10	704	0.3-	0.1-
1998 12 12	691	0.0	0.3-	2000 03 08	704	(0.4-	3.0+)	2000 04 10	704	0.0	0.1+
1998 12 12	691	0.0	0.3-	2000 03 29	704	0.5-	0.1-	2000 04 10	704	0.2+	0.1-
1998 12 12	691	0.0	0.1-	2000 03 29	704	0.6-	0.0	2000 04 13	704	0.2+	0.2+
1998 12 25	691	0.3-	0.3-	2000 03 29	704	0.1-	0.3+	2000 04 13	704	0.2-	0.4+
1998 12 25	691	0.2-	0.2-	2000 03 29	704	0.0	0.3+	2000 04 13	704	0.2+	0.1+
1998 12 25	691	0.0	0.5-	2000 03 29	704	0.0	0.5+	2000 04 13	704	0.9+	0.3-
1998 12 28	691	(1.7-	3.2+)	2000 04 03	699	0.9-	0.3+	2000 04 13	704	0.4+	0.1-
1998 12 28	691	1.8+	1.7+	2000 04 03	699	0.3-	0.3+	2000 04 13	704	(2.4+	1.7+)
1998 12 28	691	0.1-	0.3+	2000 04 03	699	0.6-	0.5+	2000 04 13	704	0.4-	1.2+
2000 01 08	704	0.1-	1.8-	2000 04 03	699	0.2-	0.7+	2000 04 13	704	0.0	1.1+
2000 01 08	704	0.2+	0.2-	2000 04 05	704	0.3-	0.0	2000 04 13	704	0.5+	0.4-
2000 01 08	704	0.0	0.2-	2000 04 05	704	0.2-	0.1+	2000 04 13	704	0.4+	0.4+
2000 01 08	704	0.7-	1.7-	2000 04 05	704	0.2-	0.3+				
2000 01 10	704	1.3-	0.8-	2000 04 05	704	0.1-	0.3+				

2000 AX₁₄₄ = 1998 QA₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	55.47425	ω	133.08399	+0.07313880	-0.94742943		
<i>a</i>	2.3598092	Ω	309.94105	+0.75555787	+0.25650559		
<i>e</i>	0.1514357	<i>i</i>	23.97107	+0.65098619	-0.19126515		
<i>P</i>	3.63	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 24	704	0.0	0.5+	1999 11 17	703	0.4+	0.2-	2000 01 08	704	0.7-	0.4-
1998 08 24	704	0.7+	0.1+	1999 12 05	704	0.6+	0.6-	2000 01 08	704	0.2-	0.8-
1998 08 24	704	0.6+	0.4-	1999 12 05	704	0.3+	0.4+	2000 02 07	703	0.2-	0.4+
1998 08 24	704	0.7+	0.1-	1999 12 05	704	0.0	0.4-	2000 02 07	703	0.2+	0.3+
1998 08 24	704	0.3-	1.0-	1999 12 05	703	0.2-	0.1+	2000 02 07	703	0.3-	0.3+
1998 08 27	704	0.1+	0.0	1999 12 05	704	0.5-	0.7+	2000 02 07	703	0.7+	0.7+
1998 08 27	704	1.7-	1.1+	1999 12 05	703	0.8+	0.3-	2000 02 08	704	0.3+	0.7+
1998 08 27	704	0.2-	0.7+	1999 12 05	704	0.0	0.3-	2000 02 08	704	0.5+	0.1+
1998 08 27	704	0.1+	1.2+	1999 12 05	703	0.0	0.5-	2000 02 08	704	0.9+	0.1-
1998 09 18	699	0.9-	0.2+	1999 12 05	703	0.0	0.2-	2000 02 08	704	0.4+	0.0
1998 09 18	699	0.4-	0.8-	2000 01 05	704	0.2-	0.8-	2000 03 03	703	0.1-	0.3+
1998 09 18	699	0.2-	0.2+	2000 01 05	704	0.2-	0.7-	2000 03 03	703	0.1-	0.2+
1999 11 16	704	0.8-	0.3+	2000 01 05	704	0.6-	0.6-	2000 03 03	703	0.3+	0.4-
1999 11 16	704	0.4-	1.2+	2000 01 05	704	0.4-	0.5-	2000 03 03	703	0.1-	0.4+
1999 11 16	704	0.1+	1.1+	2000 01 06	699	0.0	0.2-	2000 03 09	704	0.1+	0.1+
1999 11 16	704	0.3-	0.9+	2000 01 06	699	0.1+	0.5+	2000 03 09	704	1.0+	0.2+
1999 11 16	704	0.3-	1.7+	2000 01 06	699	0.3+	0.1-	2000 03 09	704	0.2-	0.2+
1999 11 17	703	1.1-	0.2+	2000 01 08	704	0.0	0.7-	2000 03 09	704	0.2+	0.5+
1999 11 17	703	1.4+	0.5+	2000 01 08	704	0.3-	0.6-	2000 03 09	704	0.2-	0.2+
1999 11 17	703	0.5+	0.2-	2000 01 08	704	0.4-	0.7-				

2000 AJ₁₅₉ = 1980 FO

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	1.14357	ω	161.05180	-0.67586505	-0.73641416		
<i>a</i>	0.29254582	Ω	331.44577	+0.66783938	-0.59468842		
<i>e</i>	2.2473642	<i>i</i>	3.59965	+0.31176434	-0.32255211		
<i>P</i>	3.37	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 03 16	809	0.2+	0.9-	2000 01 04	704	0.0	0.5-	2000 02 11	704	0.3+	0.0
1980 03 16	809	0.6+	1.1-	2000 01 04	704	0.2-	0.7-	2000 02 11	704	0.0	0.1-
1980 03 16	809	0.0	0.2-	2000 01 04	704	0.5-	0.7-	2000 03 04	704	0.1-	0.1+
1980 03 16	809	0.2+	0.4-	2000 01 30	704	0.3-	0.2-	2000 03 04	704	0.2-	0.3-
1980 03 17	809	0.9-	0.6+	2000 01 30	704	0.3+	0.5+	2000 03 04	704	0.4+	0.0
1980 03 17	809	0.5-	0.2+	2000 01 30	704	0.4+	1.6+	2000 03 04	704	0.8+	0.1-
1980 03 17	809	0.4-	0.5+	2000 01 30	704	(1.5-	2.5+)	2000 03 04	704	0.3+	0.1+
1980 03 17	809	0.2+	0.2-	2000 01 31	704	0.2+	0.5+	2000 03 04	704	0.1-	0.0
1980 03 23	809	0.5-	0.5-	2000 01 31	704	0.1+	0.5-	2000 03 04	704	0.0	0.1-
1999 11 16	704	0.5+	0.4-	2000 01 31	704	0.1-	0.0	2000 03 04	704	1.2+	0.5+
1999 11 16	704	0.5-	1.2-	2000 01 31	704	0.4-	0.3-	2000 03 04	704	0.4-	0.

2000 AM₁₆₂ = 1997 KV

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	27.11236		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22697121	ω	351.58364	-0.45361752	-0.86877917		
<i>a</i>	2.6616781	Ω	125.16210	+0.83115118	-0.49283926		
<i>e</i>	0.0994153	<i>i</i>	14.06159	+0.32158804	+0.04829310		
<i>P</i>	4.34	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 05 31	327	0.1+	0.6+	2000 01 07	704	0.9+	0.5+	2000 02 11	704	0.3+	0.3-
1997 05 31	327	0.5+	0.8+	2000 01 07	704	0.2+	0.2-	2000 03 04	704	0.1+	0.2-
1997 05 31	327	0.0	0.4-	2000 01 07	704	0.5+	0.4-	2000 03 04	704	0.3+	0.5-
1997 06 01	327	0.4-	0.5-	2000 01 07	704	0.3+	1.0+	2000 03 04	704	0.0	0.3+
1997 06 01	327	0.2+	0.2-	2000 01 29	703	0.6+	0.3-	2000 03 04	704	0.9+	0.3-
1997 06 01	327	0.3-	0.3+	2000 01 29	703	0.5+	0.0	2000 03 04	704	0.1+	0.7+
1997 06 01	327	0.1-	0.5-	2000 01 29	703	0.1+	0.9+	2000 03 11	699	0.6-	0.7+
1999 12 04	703	0.1+	0.8+	2000 01 29	703	0.4-	0.1+	2000 03 11	699	0.5-	0.6+
1999 12 04	703	0.5+	0.7+	2000 02 03	704	0.1-	0.4+	2000 03 11	699	1.0-	0.6+
1999 12 04	703	0.0	0.4-	2000 02 03	704	0.1-	0.5+	2000 03 11	699	0.6-	0.2+
1999 12 04	703	1.0+	1.0+	2000 02 03	704	0.2+	0.4+	2000 03 12	704	0.2+	0.1+
1999 12 06	704	1.6-	1.2-	2000 02 03	704	0.3+	0.2+	2000 03 12	704	0.1+	0.8-
1999 12 06	704	0.5-	0.3-	2000 02 03	704	0.2-	0.3+	2000 03 12	704	0.6+	0.6-
1999 12 06	704	0.7-	0.2-	2000 02 06	703	0.2-	0.1+	2000 03 12	703	0.3+	0.3+
1999 12 06	704	0.1+	0.3-	2000 02 06	703	0.2-	0.3-	2000 03 12	704	0.1-	0.3-
2000 01 04	704	0.4-	1.1-	2000 02 06	703	0.3-	0.2+	2000 03 12	703	0.5+	0.3-
2000 01 04	704	0.5+	0.4-	2000 02 06	703	0.7-	0.6+	2000 03 12	704	0.2+	1.0-
2000 01 04	704	0.1+	0.7-	2000 02 11	704	0.3-	0.3+	2000 03 12	703	0.5-	0.1-
2000 01 04	704	0.1-	0.9-	2000 02 11	704	1.0-	0.3-	2000 03 12	703	0.5-	0.2-
2000 01 04	704	0.6+	1.5+	2000 02 11	704	0.2+	0.5-				
2000 01 07	704	0.0	1.1-	2000 02 11	704	0.2+	0.2-				

2000 AC₁₆₈ = 1999 AM₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	350.87645		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.24272806	ω	83.63221	-0.94455279	+0.23958616		
<i>a</i>	2.5452047	Ω	110.05174	-0.30247647	-0.90097375		
<i>e</i>	0.1035288	<i>i</i>	13.82929	+0.12778109	-0.36172471		
<i>P</i>	4.06	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 16	699	0.7-	0.6-	2000 01 08	704	1.1+	0.2-	2000 03 15	704	0.4-	0.8+
1998 11 16	699	0.1-	0.3+	2000 01 10	704	0.4-	1.0-	2000 03 15	704	0.1-	0.1-
1998 11 16	699	0.4+	0.3+	2000 01 10	704	0.8+	0.9-	2000 03 15	704	0.2+	0.3+
1998 11 16	566	0.3+	0.1+	2000 01 10	704	0.3-	0.4-	2000 03 15	704	1.0-	0.0
1998 11 16	566	0.0	0.0	2000 01 10	704	0.3+	0.1-	2000 03 29	704	0.9-	0.0
1998 11 16	566	0.1+	0.4+	2000 01 10	704	0.5+	0.1-	2000 03 29	704	0.9-	0.0
1998 12 17	699	0.9-	0.0	2000 02 04	704	0.2+	0.3-	2000 03 29	704	1.1-	0.2-
1998 12 17	699	0.7+	0.2-	2000 02 04	704	0.5-	0.7+	2000 03 29	704	0.9-	0.3-
1998 12 17	699	0.3+	0.5+	2000 02 04	704	0.4-	0.5+	2000 03 29	704	1.0-	0.4-
1999 01 10	699	0.6+	0.2-	2000 02 04	704	0.5-	0.8+	2000 04 04	704	0.3+	0.0
1999 01 10	699	0.3+	0.2+	2000 02 04	704	1.1-	0.5+	2000 04 04	704	0.6+	0.2+
1999 01 10	699	0.3-	0.5-	2000 03 05	704	0.2+	0.4+	2000 04 04	704	0.6+	0.2+
1999 01 15	699	0.4-	0.1+	2000 03 05	704	0.1-	0.1+	2000 04 04	704	0.3+	0.2+
1999 01 15	699	0.3-	0.1+	2000 03 05	704	0.6+	0.7+	2000 04 04	704	0.3+	0.1-
1999 01 15	699	0.4-	0.4+	2000 03 11	703	0.0	0.1+	2000 04 14	704	0.6+	0.2-
2000 01 08	704	0.3+	0.4-	2000 03 11	703	0.2+	0.2-	2000 04 14	704	0.4+	0.1-
2000 01 08	704	0.2+	0.9-	2000 03 11	703	0.9+	0.2+	2000 04 14	704	0.0	0.2-
2000 01 08	704	0.6-	0.6-	2000 03 11	703	0.2+	0.3+	2000 04 14	704	0.9+	0.5+
2000 01 08	704	0.0	0.5-	2000 03 15	704	0.5+	0.7-	2000 04 14	704	0.8+	0.4+

2000 AF₁₉₆ = 1998 QN₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	48.05281		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.24161349	ω	241.95171	+0.26906132	-0.96242707		
<i>a</i>	2.5530262	Ω	192.60221	+0.93204441	+0.26976875		
<i>e</i>	0.1746905	<i>i</i>	9.65918	+0.24269161	+0.03096707		
<i>P</i>	4.08	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 24	704	0.6+	1.6+	2000 01 08	704	0.2-	0.3-	2000 02 28	703	0.6-	0.8+
1998 08 24	704	0.1-	0.2+	2000 01 08	704	0.2-	0.0	2000 02 28	703	0.0	0.0
1998 08 24	704	0.2-	0.7-	2000 01 08	704	0.1+	0.4-	2000 02 28	703	0.4-	0.1+
1998 08 24	704	0.0	1.3-	2000 01 11	704	0.3+	0.3+	2000 03 06	704	0.2-	0.8-
1998 08 27	704	0.1+	1.1-	2000 01 11	704	0.2+	0.1-	2000 03 06	704	0.1+	0.6+
1998 08 27	704	(2.4+	2.7+)	2000 01 11	704	0.4-	0.0	2000 03 06	704	0.1+	0.1+
1998 08 27	704	0.4-	1.9+	2000 01 11	704	0.1+	0.6+	2000 03 11	608	0.5+	0.1+
1999 12 14	704	0.3-	0.2-	2000 01 11	704	0.0	0.1+	2000 03 11	608	0.3+	0.2-
1999 12 14	704	0.7-	0.4-	2000 02 06	704	0.9+	0.2+	2000 03 11	608	0.5+	0.5-
1999 12 14	704	0.0	0.3-	2000 02 06	704	0.7+	0.2-	2000 03 27	699	1.0-	0.4-
1999 12 14	704	0.2-	0.2+	2000 02 06	704	0.4+	0.9-	2000 03 27	699	0.6-	0.9-
1999 12 14	704	0.4+	0.8+	2000 02 06	704	0.3+	0.4-	2000 03 27	699	0.1-	0.6+
2000 01 08	704	0.3-	0.2+	2000 02 06	704	0.1-	0.1-	2000 03 27	699	0.6+	1.2+
2000 01 08	704	0.6-	0.2+	2000 02 28	703	0.2+	1.0+				

2000 AA₂₀₂ = 1979 OT₁₆ = 1982 BK = 1982 BX₉ = 1985 QV₂

Id. A. Doppler, G. V. Williams (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.47506		(2000.0)	Marsden		<i>P</i>	<i>Q</i>
<i>n</i>	0.16938787	ω	95.32336	+0.74129727	-0.60016496		
<i>a</i>	3.2350514	Ω	301.92450	+0.38382472	+0.74631782		
<i>e</i>	0.0461101	<i>i</i>	20.73296	+0.55059691	+0.28777027		
<i>P</i>	5.82	<i>H</i>	11.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 07 31	323	0.6+	1.4-	2000 01 06	699	1.1+	0.2-	2000 03 03	703	0.0	0.0
1979 07 31	323	1.2+	1.2-	2000 01 06	699	0.8+	0.3+	2000 03 03	703	0.5-	0.1-
1982 01 18	688	(4.0-	1.2-)	2000 01 06	699	0.2+	0.0	2000 03 03	703	0.1+	0.2+
1982 01 18	688	0.7-	1.2-	2000 01 07	699	0.6+	0.3+	2000 03 04	703	0.1-	0.1+
1982 01 19	095	(0.1+	9.4+)	2000 01 07	699	0.2+	0.7+	2000 03 04	703	0.1+	0.3+
1985 08 17	675	(2.9-	0.4-)	2000 01 07	699	0.1-	0.1-	2000 03 04	703	0.3-	0.3+
1985 08 17	675	0.6-	1.0+	2000 01 09	704	0.5+	0.3-	2000 03 04	703	0.2-	0.1+
1998 11 16	704	0.6+	0.8+	2000 01 09	704	0.4-	0.8-	2000 03 06	608	1.1-	0.0
1998 11 16	704	0.6-	2.0-	2000 01 09	704	0.3-	0.1-	2000 03 06	608	0.9-	1.0-
1998 11 16	704	0.7-	0.2-	2000 01 11	704	0.2-	0.3-	2000 03 06	608	0.8-	0.2-
1998 11 16	704	0.5+	1.2-	2000 01 11	704	0.4-	0.1-	2000 03 08	704	0.1+	0.2-
1998 11 16	704	0.6-	0.4-	2000 01 11	704	0.1-	1.3-	2000 03 08	704	0.2+	0.0
1998 12 12	704	0.3+	1.0+	2000 01 11	704	0.3-	0.5-	2000 03 08	704	0.0	0.5+
1998 12 12	704	0.2-	0.7+	2000 01 11	704	0.3-	1.3-	2000 03 08	704	0.3+	1.1+
1998 12 12	704	0.2+	0.3+	2000 02 08	704	0.1+	0.0	2000 03 08	704	0.4-	1.2+
1998 12 12	704	(0.0	2.3-)	2000 02 08	704	0.2+	0.3-	2000 03 13	704	0.5+	0.0
1998 12 12	704	0.0	0.5+	2000 02 08	704	0.2-	0.7-	2000 03 13	704	0.1+	0.2-
1999 11 06	699	0.2+	0.5-	2000 02 08	704	0.1-	1.2-	2000 03 13	704	0.3+	0.3-
1999 11 06	699	1.3-	0.9+	2000 02 08	704	0.0	0.8-	2000 03 13	704	0.2+	0.3-
1999 11 06	699	0.1+	0.3+	2000 02 13	704	0.1+	0.3-	2000 03 13	704	0.4+	0.2-
1999 11 09	703	0.8+	0.6+	2000 02 13	704	0.6-	0.3+	2000 04 04	704	0.3+	0.3-
1999 11 09	703	1.5+	0.9+	2000 02 13	704	0.4+	0.0	2000 04 04	704	0.9-	0.2+
1999 11 09	703	0.8+	0.6+	2000 02 13	704	0.2-	0.0	2000 04 04	704	1.0+	1.7+
1999 11 09	703	1.8+	0.6+	2000 02 13	106	0.0	1.0+	2000 04 04	704	(0.2+	2.2+)
1999 12 14	704	0.6-	0.3-	2000 02 13	106	0.2+	0.3-	2000 04 04	704	(0.4-	4.5+)

2000 APR. 18

M.P.C. 40095

2000 AB₂₀₃ = 1998 XQ₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.03630		(2000.0)	P		Q	
<i>n</i>	0.23717024	ω	357.80786	−0.05342566		+0.97282358	
<i>a</i>	2.5848137	Ω	269.07318	−0.91270916		−0.13910335	
<i>e</i>	0.1476991	<i>i</i>	13.02224	−0.40510206		+0.18510684	
<i>P</i>	4.16	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 19	704	0.0	1.6+	1998 12 17	704	(0.1+	2.2−)	2000 03 09	704	0.6+	0.1−
1998 11 19	704	0.9−	1.2+	1998 12 17	704	(1.1−	2.4−)	2000 03 09	704	0.3+	0.7−
1998 11 19	704	1.0+	0.9+	1998 12 17	704	0.6+	1.3−	2000 03 09	704	0.4−	0.3−
1998 11 19	704	1.5−	0.5+	1998 12 17	704	0.6−	1.5−	2000 03 09	704	0.7−	0.7−
1998 11 19	704	0.1+	0.2+	2000 01 10	704	0.4−	0.5+	2000 03 09	704	1.1−	1.2−
1998 12 14	704	1.2−	1.2+	2000 01 10	704	0.1−	1.5+	2000 04 04	699	0.4+	0.9+
1998 12 14	704	0.0	1.1−	2000 01 10	704	0.4+	0.3+	2000 04 04	699	1.0+	0.5+
1998 12 14	704	0.2+	1.0+	2000 01 10	704	0.5−	0.6+	2000 04 04	699	0.1+	0.3+
1998 12 14	704	1.6+	1.3−	2000 01 10	704	0.1−	1.0+	2000 04 04	699	0.6+	0.2+
1998 12 14	704	0.4+	1.0+	2000 01 11	704	0.1−	0.7+	2000 04 07	704	0.3+	0.2+
1998 12 16	704	0.4+	1.2−	2000 01 11	704	1.4+	1.6−	2000 04 07	704	0.7+	0.1−
1998 12 16	704	(0.9+	2.7+)	2000 01 11	704	0.3+	0.5−	2000 04 07	704	0.1+	0.2−
1998 12 16	704	0.3+	1.0−	2000 01 11	704	0.2+	0.1+	2000 04 07	704	0.3+	0.2−
1998 12 16	704	(0.6−	3.0+)	2000 03 05	608	0.6−	0.2−	2000 04 07	704	1.3−	0.5+
1998 12 16	704	(0.9−	2.9+)	2000 03 05	608	0.5−	0.2−				
1998 12 17	704	0.3−	0.2−	2000 03 05	608	0.4−	0.5−				

2000 AC₂₄₂ = 1987 SW₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	146.66670		(2000.0)	P		Q	
<i>n</i>	0.18785686	ω	149.56478	+0.99277842		+0.08236731	
<i>a</i>	3.0193817	Ω	206.14259	−0.10030432		+0.96874520	
<i>e</i>	0.0377245	<i>i</i>	11.41683	+0.06580308		+0.23398367	
<i>P</i>	5.25	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 09 29	054	0.4−	0.6+	2000 01 07	699	0.1−	1.2+	2000 02 08	704	0.1−	0.1−
1987 09 30	054	0.3+	0.4−	2000 01 07	699	0.6+	1.1+	2000 02 08	704	0.2+	0.0
1987 09 30	054	0.1+	0.2+	2000 01 07	699	1.2+	0.4+	2000 02 08	704	0.2+	0.1+
1998 10 19	699	0.4+	1.0+	2000 01 11	704	0.4−	0.8−	2000 03 01	703	0.9−	0.2−
1998 10 19	699	0.3−	0.0	2000 01 11	704	0.5−	0.7−	2000 03 01	703	0.3−	0.4+
1998 10 19	699	0.4−	0.5+	2000 01 11	704	0.4−	0.6−	2000 03 01	703	0.0	0.4+
1998 11 11	704	0.2+	0.2+	2000 01 11	704	0.2−	0.5−	2000 03 01	703	0.3+	0.2+
1998 11 11	704	0.4+	1.0−	2000 01 11	704	0.3−	0.6−	2000 03 06	608	0.1−	1.1−
1998 11 11	704	0.3+	0.7−	2000 02 05	703	0.1−	0.1+	2000 03 06	608	0.5−	1.2−
1998 11 11	704	0.7+	0.7−	2000 02 05	703	0.2+	0.2−	2000 03 06	608	0.3−	1.1−
1998 11 11	699	0.2−	0.3+	2000 02 05	703	0.5−	0.0	2000 04 05	704	0.0	0.2+
1998 11 11	704	(2.4−	1.4−)	2000 02 05	703	0.8−	0.2+	2000 04 05	704	0.1+	0.8+
1998 11 11	699	0.1−	0.1−	2000 02 08	704	0.7+	0.8+	2000 04 05	704	0.7+	0.1+
1998 11 11	699	0.9−	0.4+	2000 02 08	704	0.3+	0.5+	2000 04 05	704	1.2+	1.0+

2000 AF₂₄₂ = 1995 GS₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	354.65983		(2000.0)	P		Q	
<i>n</i>	0.18058795	ω	330.67057	−0.87042099		−0.49230737	
<i>a</i>	3.0998704	Ω	179.82954	+0.48920385		−0.86513022	
<i>e</i>	0.1571486	<i>i</i>	17.09025	+0.05519875		−0.09582880	
<i>P</i>	5.46	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 09 26	691	0.3+	0.0	2000 01 07	699	0.1+	0.5+	2000 03 27	699	0.1−	0.3+
1992 09 26	691	0.0	0.2+	2000 01 11	704	0.1+	0.2−	2000 03 27	699	0.1−	0.2+
1992 09 26	691	0.2−	0.2−	2000 01 11	704	0.1−	0.2−	2000 03 27	699	0.1−	0.6+
1995 04 01	691	0.0	0.2−	2000 01 11	704	0.6−	0.1−	2000 03 28	608	0.1−	0.3−
1995 04 01	691	0.2−	0.1−	2000 01 11	704	0.7−	0.2−	2000 03 28	608	0.2+	0.2−
1995 04 01	691	0.2−	0.1−	2000 01 11	704	1.1−	0.7−	2000 03 28	608	0.0	0.8−

1995 04 04	691	0.2−	0.2−	2000 02 08	704	0.8+	0.7+	2000 04 02	699	0.1−	0.1+
1995 04 04	691	0.0	0.3−	2000 02 08	704	0.5+	0.5+	2000 04 02	699	1.0−	0.2+
1995 04 04	691	0.4+	0.2−	2000 02 08	704	0.9+	0.6+	2000 04 02	699	0.2−	0.5+
1999 12 16	704	0.6−	0.1−	2000 02 08	704	0.7+	0.5+	2000 04 02	699	0.1+	0.0
1999 12 16	704	1.2−	0.7−	2000 03 08	704	0.5+	0.3+	2000 04 05	704	0.5−	0.1+
1999 12 16	704	0.4−	0.6−	2000 03 08	704	0.6+	0.0	2000 04 05	704	0.2−	0.1+
1999 12 16	704	0.2+	0.9−	2000 03 08	704	0.6+	0.1+	2000 04 05	704	0.4−	0.6+
1999 12 16	704	0.5+	0.3−	2000 03 08	704	0.4+	0.2−	2000 04 05	704	0.4−	0.8−
2000 01 07	699	0.1+	0.4+	2000 03 08	704	0.7+	0.1−	2000 04 05	704	0.1−	0.2+
2000 01 07	699	0.5+	0.3−	2000 03 27	699	0.3−	0.4+				

2000 AM₂₄₂ = 1995 FN₁₂ = 1998 RX₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.03820		(2000.0)	P		Q	
<i>n</i>	0.17476004	ω	241.55862	+0.33455861		−0.94163425	
<i>a</i>	3.1684094	Ω	189.12868	+0.92554619		+0.33576461	
<i>e</i>	0.2830367	<i>i</i>	13.51844	+0.17724194		+0.02422922	
<i>P</i>	5.64	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1995 03 27	691	0.5−	0.4+	1998 09 18	704	0.9+	1.4−	2000 01 09	704	0.2−	0.2+
1995 03 27	691	0.1−	0.2+	1998 09 18	704	0.4−	1.3+	2000 01 09	704	1.3−	0.6−
1995 03 27	691	0.1−	0.3+	1999 11 07	711	0.1−	0.2−	2000 01 09	704	1.0−	0.2−
1995 04 07	691	0.3+	0.6−	1999 11 07	711	0.6−	0.8−	2000 02 06	704	0.6−	0.6+
1995 04 07	691	0.2+	0.1−	1999 11 07	711	0.8+	0.1−	2000 02 06	704	0.1+	0.6−
1995 04 07	691	0.2+	0.1−	1999 12 13	703	0.7+	0.4+	2000 02 06	704	0.0	0.7−
1998 08 30	699	0.5+	0.2−	1999 12 13	703	1.3+	0.5+	2000 02 06	704	0.1−	0.7−
1998 08 30	699	0.6+	1.5+	1999 12 13	703	0.1+	0.8+	2000 02 06	704	0.2+	0.6−
1998 08 30	699	1.1+	0.5−	1999 12 13	703	0.3+	0.9+	2000 03 01	703	0.3+	0.9+
1998 09 14	704	0.2+	0.4−	1999 12 16	704	0.5−	0.2+	2000 03 01	703	0.1−	0.6+
1998 09 14	704	0.6−	0.1+	1999 12 16	704	0.1−	0.1+	2000 03 01	703	0.6−	0.8+
1998 09 14	704	0.4−	0.6+	1999 12 16	704	1.2−	0.2+	2000 03 01	703	0.1−	0.2−
1998 09 14	704	0.5+	0.8−	1999 12 16	704	1.2−	1.2−	2000 03 06	704	0.6+	0.2+
1998 09 14	704	1.3−	0.6−	2000 01 07	699	0.7+	0.0	2000 03 06	704	0.6+	0.3−
1998 09 18	704	1.1−	0.0	2000 01 07	699	1.2+	0.4+	2000 03 06	704	0.0	0.1−
1998 09 18	704	0.0	0.6+	2000 01 07	699	0.7+	0.5−				

2000 AB₂₄₃ = 1977 RU₆ = 1981 TV = 1996 FD₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	193.64364		(2000.0)	P		Q	
<i>n</i>	0.23925547	ω	133.48524	+0.79642103		+0.60367583	
<i>a</i>	2.5697732	Ω	189.57482	−0.59820797		+0.77772154	
<i>e</i>	0.1762506	<i>i</i>	12.46526	−0.08866096		+0.17528461	
<i>P</i>	4.12	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 09 11	095	0.2+	0.7+	2000 01 11	704	0.3+	0.1+	2000 03 13	704	0.5+	0.2+
1981 09 28	095	0.4−	2.4+	2000 01 11	704	0.1−	1.2−	2000 03 13	704	0.2−	0.3+
1981 10 05	688	(1.6−	3.1−)	2000 01 11	704	0.7−	0.7+	2000 03 13	704	0.5−	0.5+
1981 10 05	688	0.2+	0.6+	2000 02 07	703	0.1−	0.5+	2000 03 13	704	0.4−	2.0+
1996 03 19	691	1.2−	0.4−	2000 02 07	703	0.1−	0.1−	2000 03 13	704	0.0	1.0+
1996 03 19	691	1.2−	0.5−	2000 02 07	703	0.0	0.6+	2000 03 27	699	0.4+	0.1+
1996 03 19	691	1.3−	0.6−	2000 02 07	703	0.3+	0.2+	2000 03 27	699	1.8+	0.1+
1996 03 27	691	1.3−	0.7−	2000 02 08	704	0.2+	0.4+	2000 03 27	699	1.7−	0.0
1996 03 27	691	1.6−	0.5−	2000 02 08	704	0.2+	0.5−	2000 03 27	699	0.1+	0.0
1996 03 27	691	1.5−	0.5−	2000 02 08	704	0.3+	0.0	2000 04 05	704	0.5+	0.4+
1998 12 22	704	0.1+	0.0	2000 02 08	704	0.0	0.7+	2000 04 05	704	0.6+	0.3+
1998 12 22	704	0.3−	0.1−	2000 02 13	704	2.0+	1.0−	2000 04 05	704	0.7+	0.4+
1998 12 22	704	0.6−	0.2+	2000 02 13	704	0.2−	2.0+	2000 04 05	704	0.8+	0.0
1998 12 22	704	1.2−	0.2+	2000 02 13	704	(0.1+	2.9+)	2000 04 05	704	0.5+	0.0
1999 01 13	699	0.2+	0.9−	2000 03 01	703	0.0	0.6+	2000 04 08	704	0.8+	0.8−
1999 01 13	699	0.0	1.5−	2000 03 01	703	0.4+	0.3+	2000 04 08	704	1.2+	0.3+
1999 01 13	699	0.4+	0.9−	2000 03 01	703	0.4+	0.4+	2000 04 08	704	0.2+	1.0+
2000 01 07	699	0.4+	0.1−	2000 03 01	703	0.4+	0.4+	2000 04 10	704	1.2+	0.2−
2000 01 07	699	1.0+	0.2−	2000 03 06	608	1.0−	0.8−	2000 04 10	704	1.2+	0.8+

M.P.C. 40096

2000 APR. 18

2000 01 07 699 0.5+ 0.4+ 2000 03 06 608 0.9- 1.0- 2000 04 10 704 0.8+ 0.7+
 2000 01 11 704 0.1- 0.4- 2000 03 06 608 0.9- 1.0-

2000 AN₂₄₃ = 1980 RT₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.32150		(2000.0)		P		Q
<i>n</i>	0.17200331	ω	215.99999	+0.54945274		-0.83201578	
<i>a</i>	3.2021734	Ω	201.00276	+0.80778985		+0.55237590	
<i>e</i>	0.0436269	<i>i</i>	12.32320	+0.21348828		+0.05128949	
<i>P</i>	5.73	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 09 13	675	0.3-	1.7+	2000 01 11	704	0.9-	0.2-	2000 03 01	703	0.3+	0.5+
1980 09 14	675	0.3-	0.9+	2000 01 11	704	1.1-	0.7-	2000 03 01	703	0.4-	0.4+
1998 11 13	704	0.6+	1.8+	2000 01 11	704	0.9-	0.8-	2000 03 08	704	0.2+	0.2+
1998 11 13	704	1.0+	0.7-	2000 01 11	704	1.4-	0.6+	2000 03 08	704	0.6+	0.1-
1998 11 13	704	1.0+	1.5-	2000 02 05	703	0.2-	0.2+	2000 03 08	704	0.4+	0.4+
1998 11 13	704	0.6-	0.1-	2000 02 05	703	0.1+	0.0	2000 03 08	704	1.2+	0.8+
1998 11 13	704	1.9-	0.3+	2000 02 05	703	0.2-	0.2+	2000 03 08	704	1.3+	0.9+
1999 12 16	704	1.8-	1.6-	2000 02 05	703	0.3-	1.1+	2000 03 27	699	0.1-	0.1+
1999 12 16	704	1.0-	0.7-	2000 02 08	704	1.5+	0.2-	2000 03 27	699	0.3+	0.0
1999 12 16	704	0.1+	0.3-	2000 02 08	704	0.3+	0.1+	2000 03 27	699	0.9+	0.4+
1999 12 16	704	(2.8-	0.1-)	2000 02 08	704	0.3-	0.3-	2000 03 27	699	0.8+	0.2+
1999 12 16	704	0.9-	0.6-	2000 02 08	704	0.0	0.8-	2000 04 05	704	0.2+	0.3+
2000 01 07	699	0.4+	0.1-	2000 02 08	704	0.5+	0.8-	2000 04 05	704	0.6+	0.4+
2000 01 07	699	0.5+	0.7+	2000 03 01	703	0.4-	0.1+	2000 04 05	704	0.2+	0.4+
2000 01 07	699	0.4-	0.9+	2000 03 01	703	0.1+	0.2+	2000 04 05	704	0.5-	0.1+

2000 AG₂₄₆ = 1998 XK₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	300.82877		(2000.0)		P		Q
<i>n</i>	0.23762071	ω	220.05265	-0.40197540		+0.91254877	
<i>a</i>	2.5815460	Ω	26.50305	-0.79097084		-0.30463379	
<i>e</i>	0.0600923	<i>i</i>	9.71501	-0.46128181		-0.27286076	
<i>P</i>	4.15	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 15	566	0.3-	0.0	2000 01 16	327	0.8-	1.1-	2000 04 02	699	0.4-	0.1-
1996 03 15	566	0.2-	0.5-	2000 01 16	327	0.5-	0.3-	2000 04 03	699	0.4+	0.2+
1996 03 15	566	0.3+	0.1+	2000 01 16	327	1.2-	0.7-	2000 04 03	699	0.3+	0.1+
1998 11 16	704	0.2+	0.6+	2000 03 01	703	0.2-	0.7+	2000 04 03	699	0.2+	0.1+
1998 11 16	704	0.2-	1.6+	2000 03 01	703	0.1+	0.6+	2000 04 03	699	0.4-	0.4+
1998 11 16	704	0.5-	1.6+	2000 03 01	703	0.3+	0.8+	2000 04 04	704	0.3+	0.2-
1998 11 16	704	(1.2-	3.1+)	2000 03 01	703	0.4+	0.4+	2000 04 04	704	0.3+	0.2+
1998 12 14	704	0.9+	0.8+	2000 03 08	704	0.6+	0.1+	2000 04 04	704	0.3+	0.3+
1998 12 14	704	0.7+	0.6-	2000 03 08	704	0.3+	0.3+	2000 04 04	704	0.4+	0.6+
1998 12 14	704	1.1-	1.0-	2000 03 08	704	0.4+	0.0	2000 04 04	704	0.5+	0.6+
1998 12 14	704	0.0	1.8-	2000 03 08	704	0.0	0.3-	2000 04 08	704	0.2+	0.1+
1998 12 17	704	(0.8-	2.8+)	2000 03 08	608	0.0	1.7-	2000 04 08	704	0.1-	0.2+
1998 12 17	704	0.1-	1.3+	2000 03 08	608	0.2+	0.9-	2000 04 08	704	0.4+	0.0
1998 12 17	704	0.7+	0.4-	2000 03 08	608	0.3+	1.7-	2000 04 08	704	0.2+	0.3-
1998 12 17	704	0.8-	0.1-	2000 03 27	699	0.2-	0.1+	2000 04 08	704	0.1+	0.2+
2000 01 08	704	0.3+	0.5+	2000 03 27	699	0.1+	0.2+	2000 04 10	704	0.0	0.5-
2000 01 08	704	0.3-	0.2-	2000 03 27	699	0.1-	0.0	2000 04 10	704	0.0	0.2+
2000 01 08	704	0.4-	0.5-	2000 03 27	699	0.6-	0.1-	2000 04 10	704	0.0	0.1+
2000 01 08	704	0.6-	0.7-	2000 03 29	704	0.3+	0.3+	2000 04 10	704	0.2+	0.3+
2000 01 08	704	0.4-	0.0	2000 03 29	704	0.2-	0.1-	2000 04 10	704	0.1+	0.6+
2000 01 12	327	0.2-	0.6-	2000 03 29	704	0.4-	0.2+	2000 04 13	704	0.6+	0.1-
2000 01 12	327	0.4-	0.1-	2000 03 29	704	0.6-	0.3+	2000 04 13	704	0.3+	0.0
2000 01 12	327	0.8-	0.3-	2000 03 29	704	0.1+	0.4+	2000 04 13	704	0.2-	0.6+
2000 01 13	327	0.6+	0.4-	2000 04 02	699	0.0	0.2-	2000 04 13	704	0.1-	0.0
2000 01 13	327	0.1+	0.3-	2000 04 02	699	0.6-	0.3+	2000 04 13	704	0.1-	0.5+
2000 01 13	327	0.1-	0.1+	2000 04 02	699	0.1-	0.2+				

2000 AK₂₄₆ = 1991 VT₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	91.15180		(2000.0)		P		Q
<i>n</i>	0.27691383	ω	353.06656	+0.31229062		-0.94405756	
<i>a</i>	2.3311647	Ω	78.69429	+0.87670273		+0.24343868	
<i>e</i>	0.1655701	<i>i</i>	6.20397	+0.36587825		+0.22247008	
<i>P</i>	3.56	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 11 09	808	(8.1-	0.7+)	2000 01 16	327	0.6-	0.1-	2000 03 12	703	0.5+	1.3+
1991 11 09	808	0.4+	1.0+	2000 01 17	327	0.3-	1.8-	2000 03 12	703	0.1-	1.3+
1991 11 12	808	0.9-	0.8+	2000 01 17	327	0.1+	0.2-	2000 03 29	704	0.1-	0.4+
1991 11 12	808	0.4-	0.2+	2000 01 17	327	0.4+	0.0	2000 03 29	704	0.3-	0.8+
1998 09 24	699	0.2-	0.6+	2000 01 17	327	0.2+	0.3-	2000 03 29	704	0.1+	0.2+
1998 09 24	699	0.1-	1.0+	2000 01 18	327	0.9+	0.5-	2000 03 29	704	0.2+	0.6+
1998 09 24	699	0.4-	0.1+	2000 01 18	327	0.4-	0.1+	2000 03 29	704	0.4-	0.1+
2000 01 08	704	0.7-	0.8+	2000 01 18	327	0.1+	0.3+	2000 04 05	704	0.7-	0.1-
2000 01 08	704	0.5+	0.6-	2000 03 08	704	0.1+	0.7+	2000 04 05	704	0.1+	0.4+
2000 01 08	704	0.5+	0.8-	2000 03 08	704	0.1+	0.2-	2000 04 05	704	0.2-	0.7+
2000 01 08	704	0.8+	0.3-	2000 03 08	704	0.5-	0.3+	2000 04 05	704	0.4-	0.2+
2000 01 08	704	0.4+	0.6-	2000 03 08	704	0.1+	0.9+	2000 04 05	704	0.3+	0.3+
2000 01 13	327	0.3+	0.4-	2000 03 08	608	0.8+	0.6-	2000 04 08	704	0.2-	0.3-
2000 01 13	327	0.2+	0.2-	2000 03 08	608	0.4+	0.8-	2000 04 08	704	0.2-	0.1-
2000 01 13	327	0.1-	0.1-	2000 03 08	608	1.1+	1.0-	2000 04 08	704	0.1+	0.4+
2000 01 16	327	0.1+	0.1-	2000 03 12	703	0.2-	1.2+	2000 04 08	704	0.0	0.5+
2000 01 16	327	0.3-	0.3-	2000 03 12	703	0.0	0.2-	2000 04 08	704	0.1-	0.6+

2000 BE₁ = 1998 SF₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	19.58190		(2000.0)		P		Q
<i>n</i>	0.28696639	ω	326.74745	-0.87443917		-0.48387174	
<i>a</i>	2.2764006	Ω	184.73882	+0.48316802		-0.87511380	
<i>e</i>	0.2549304	<i>i</i>	25.05782	-0.04364407		+0.00663106	
<i>P</i>	3.43	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 18	704	1.0-	0.4+	2000 01 29	704	0.4-	0.2+	2000 04 05	704	0.4-	0.1+
1998 09 18	704	(0.1-	2.2+)	2000 01 29	704	0.0	1.0-	2000 04 07	628	0.4-	0.0
1998 09 18	704	1.0+	0.1-	2000 03 09	704	0.1+	1.3+	2000 04 07	628	0.2-	0.5+
1998 09 18	704	(2.4-	2.0+)	2000 03 09	704	0.6+	0.1+	2000 04 08	628	0.6+	0.7-
1998 09 27	704	0.3+	0.6+	2000 03 09	704	0.2+	0.3+	2000 04 08	628	0.2-	1.1-
1998 09 27	704	0.2+	1.6+	2000 03 09	704	0.1+	0.4+	2000 04 08	704	0.3+	0.0
1998 09 27	704	1.2-	0.3+	2000 03 14	703	(1.4-	2.2+)	2000 04 08	704	0.3+	0.8-
1998 09 27	704	1.8+	0.4+	2000 03 14	703	0.1+	0.1-	2000 04 08	704	0.5+	0.2-
1998 09 27	704	0.7-	1.1-	2000 03 14	703	0.0	0.5+	2000 04 09	699	0.1+	0.7+
1998 10 22	910	0.1-	0.4+	2000 03 14	703	0.1+	0.4+	2000 04 09	699	0.4+	0.5+
1998 10 22	910	0.1-	0.1+	2000 03 29	411	(4.3-	2.4+)	2000 04 09	699	0.3+	0.3+
1998 10 22	910	0.1-	0.1+	2000 03 29	411	(5.4-	2.6+)	2000 04 09	699	0.5+	0.6+
2000 01 28	704	0.1-	0.5+	2000 03 30	411	1.9-	1.1-	2000 04 13	704	0.2+	0.0
2000 01 28	704	0.3-	0.1+	2000 03 30	411	0.4-	0.3-	2000 04 13	704	0.2+	0.2+
2000 01 28	704	0.2-	0.6+	2000 04 05	704	0.0	0.0	2000 04 13	704	0.3+	0.1+
2000 01 28	704	0.2+	0.4-	2000 04 05	704	0.0	0.2-	2000 04 13	704	0.2+	0.1+
2000 01 29	704	1.0-	0.5+	2000 04 05	704	0.2-	0.1-	2000 04 13	704	0.2-	0.5+
2000 01 29	704	0.3+	0.1+	2000 04 05	704	0.3-	0.1-				

2000 BJ₄ = 1975 UD₁ = 1996 FM₃ = 1998 UO₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	325.53956		(2000.0)		P		Q
<i>n</i>	0.17149975	ω	99				

2000 APR. 18

M.P.C. 40097

Residuals in seconds of arc

1975 10 29	033	0.2−	0.7−	1998 11 16	566	0.3+	0.3+	2000 01 21	704	0.3+	0.2+
1975 10 30	033	1.5+	0.3−	1999 10 14	704	0.1+	0.1+	2000 01 21	704	0.2−	0.1−
1975 10 31	033	0.5−	0.0	1999 10 14	704	0.3−	0.0	2000 01 21	704	0.1+	0.0
1996 03 24	566	0.4+	0.4−	1999 10 14	704	0.7−	0.1−	2000 01 21	704	0.3+	1.2+
1996 03 24	566	0.7+	0.6−	1999 10 14	704	0.4−	0.6+	2000 01 27	704	0.3+	0.1−
1996 03 24	566	0.5−	0.6−	1999 11 01	704	0.2−	0.5−	2000 01 27	704	0.3+	0.7−
1996 03 25	566	0.4−	0.1−	1999 11 01	704	0.4+	0.1+	2000 01 27	704	0.4−	0.6−
1996 03 25	566	1.1−	0.3−	1999 11 01	704	0.8+	0.0	2000 01 27	704	0.5−	0.0
1996 03 25	566	0.3−	0.5−	1999 11 01	704	0.1+	0.1+	2000 02 26	704	0.2+	0.1+
1998 10 28	704	0.6−	0.4−	1999 11 01	704	0.2+	0.5+	2000 02 26	704	0.1+	0.5−
1998 10 28	704	0.0	0.1+	1999 12 13	704	0.4−	0.2−	2000 02 26	704	0.3+	0.1+
1998 10 28	704	0.4+	0.6+	1999 12 13	704	0.4−	0.4−	2000 02 26	704	1.0+	0.2−
1998 10 28	704	0.1+	0.2+	1999 12 13	704	0.3−	0.0	2000 02 26	704	1.2+	0.5+
1998 10 28	704	0.2+	1.0+	1999 12 13	704	0.2−	0.3−	2000 03 27	704	0.3+	0.1+
1998 10 29	704	0.1+	0.4−	1999 12 13	704	0.0	0.1+	2000 03 27	704	0.2−	0.7+
1998 10 29	704	0.5−	0.9−	1999 12 30	704	0.0	0.1−	2000 03 27	704	0.2−	1.1+
1998 10 29	704	0.2+	1.0−	1999 12 30	704	0.1−	0.2+	2000 03 27	704	0.7+	0.1−
1998 10 29	704	1.2+	0.8−	1999 12 30	704	1.4−	1.9−	2000 03 27	704	0.1+	0.0
1998 11 16	566	0.4−	1.0+	1999 12 30	704	0.3−	0.1+				
1998 11 16	566	0.8−	0.0	2000 01 21	704	0.2+	0.3−				

2000 BD₅ = 1984 CG₁ = 1998 QP₇₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
<i>M</i>	167.25530	(2000.0)	<i>P</i>				
<i>n</i>	0.17123685	<i>ω</i>	309.22442	−0.04380856	+0.94525947		
<i>a</i>	3.2117216	<i>Ω</i>	314.79451	−0.71705972	−0.25512743		
<i>e</i>	0.1835290	<i>i</i>	27.10849	−0.69563365	+0.20345644		
<i>P</i>	5.76	<i>H</i>	11.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1984 01 26	688	0.8−	1.0+	1998 08 27	704	0.1+	0.8−	2000 01 28	704	0.3+	0.2+
1984 01 26	688	0.4−	1.4−	1998 08 27	704	0.4+	0.4−	2000 01 28	704	0.0	0.2−
1984 02 04	688	0.3+	0.3+	1999 10 30	704	0.2+	0.2+	2000 01 28	704	0.3+	0.6+
1984 02 04	688	1.4+	0.6+	1999 10 30	704	1.4−	0.7−	2000 01 30	704	0.3+	0.0
1998 06 30	704	(3.3+	0.0)	1999 10 30	704	0.3−	1.3−	2000 01 30	704	0.7+	0.2−
1998 06 30	704	0.4+	0.4+	1999 10 30	704	1.2−	1.8−	2000 01 30	704	0.1+	0.0
1998 06 30	704	1.7−	1.1+	1999 12 17	704	0.0	0.2−	2000 01 30	704	1.2−	1.2+
1998 06 30	704	0.7−	0.1−	1999 12 17	704	0.4+	1.1+	2000 01 31	704	0.2+	0.6+
1998 08 19	704	0.5−	0.1−	1999 12 17	704	0.2−	0.2−	2000 01 31	704	0.0	1.2+
1998 08 19	704	0.1+	0.7+	1999 12 17	704	0.9−	0.5+	2000 01 31	704	1.5+	0.6−
1998 08 19	704	0.5−	1.2+	1999 12 17	704	0.3−	0.7+	2000 01 31	704	0.2−	0.0
1998 08 19	704	1.0+	0.7+	1999 12 29	704	0.4+	0.4−	2000 02 02	704	0.0	0.2+
1998 08 19	704	1.6−	1.0−	1999 12 29	704	0.3+	0.7−	2000 02 02	704	0.4+	0.4+
1998 08 24	704	0.8+	1.0+	1999 12 29	704	0.5+	0.4−	2000 02 02	704	0.2−	0.2−
1998 08 24	704	0.7+	0.7−	1999 12 29	704	0.7+	0.3−	2000 02 02	704	0.3−	0.2+
1998 08 24	704	0.2+	0.7−	2000 01 27	704	0.1+	0.0	2000 02 03	704	0.3−	1.0+
1998 08 24	704	0.2+	0.4−	2000 01 27	704	0.1−	0.8−	2000 02 03	704	0.6−	0.3+
1998 08 27	704	0.1+	0.3+	2000 01 27	704	0.2−	0.5−	2000 02 03	704	0.5+	0.3+
1998 08 27	704	0.4−	0.1−	2000 01 27	704	0.7−	0.4−	2000 02 03	704	0.7+	0.8+
1998 08 27	704	0.1+	0.0	2000 01 28	704	0.3−	0.1−	2000 02 03	704	0.5+	0.1−

2000 BV₅ = 1992 SQ₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
<i>M</i>	349.69657	(2000.0)	<i>P</i>				
<i>n</i>	0.18340556	<i>ω</i>	73.15403	−0.77672094	−0.62860519		
<i>a</i>	3.0680402	<i>Ω</i>	67.88069	+0.56042546	−0.71837319		
<i>e</i>	0.1170862	<i>i</i>	2.44360	+0.28745068	−0.29798570		
<i>P</i>	5.37	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1992 09 27	691	0.8+	0.1+	2000 01 27	704	0.7+	0.2+	2000 02 01	691	0.7−	0.2+
1992 09 27	691	0.2−	0.1+	2000 01 27	704	1.1−	1.6−	2000 02 01	691	0.7−	0.1+
1992 09 27	691	0.1−	0.5−	2000 01 27	704	1.1+	0.8−	2000 02 01	691	0.7−	0.3+

1992 09 28	691	0.0	0.4+	2000 01 29	704	1.1−	0.3+	2000 02 03	691	0.5+	0.6−
1992 09 28	691	0.1+	0.0	2000 01 29	704	0.2−	0.2+	2000 02 03	691	0.6+	0.5−
1992 09 28	691	0.2−	0.2+	2000 01 29	704	0.1+	1.5+	2000 02 03	691	0.6+	0.5−
2000 01 27	704	1.0+	0.1−	2000 01 29	704	0.2−	1.3+				

2000 BS₆ = 1979 HO = 1998 SZ₅₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Q			
<i>M</i>	238.80753	(2000.0)	<i>P</i>				
<i>n</i>	0.27076824	<i>ω</i>	159.17209	−0.41662443	+0.90735031		
<i>a</i>	2.3663060	<i>Ω</i>	86.17097	−0.84180468	−0.36179061		
<i>e</i>	0.1787241	<i>i</i>	3.21923	−0.34320397	−0.21406302		
<i>P</i>	3.64	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 04 19	807	1.7−	0.2+	1998 09 18	704	1.1+	1.8+	2000 01 03	704	1.3−	1.1+
1979 04 26	807	1.5+	0.4−	1998 09 18	704	(1.4−	2.2+)	2000 01 03	704	0.1−	0.2−
1979 04 26	807	0.0	0.1−	1998 09 25	699	0.4+	0.3+	2000 01 04	704	0.6−	0.4−
1998 08 28	704	0.3+	0.2−	1998 09 25	699	0.3−	0.3+	2000 01 04	704	0.1+	0.5−
1998 08 28	704	1.0+	0.1−	1998 09 25	699	0.2+	0.5−	2000 01 04	704	0.5+	0.7−
1998 08 28	704	0.6+	0.1+	1998 09 26	704	0.5+	0.6−	2000 01 04	704	0.3+	0.9−
1998 08 28	704	(4.3−	1.2−)	1998 09 26	704	0.8+	0.6−	2000 01 04	704	0.1−	1.0−
1998 09 14	704	1.1+	1.7−	1998 09 26	704	0.3−	0.6−	2000 01 25	704	0.8+	1.1+
1998 09 14	704	1.4−	1.6−	1998 09 26	704	0.6−	0.6−	2000 01 25	704	0.7+	0.6+
1998 09 14	704	1.7−	0.2+	1998 09 26	704	0.6−	0.3−	2000 01 25	704	(2.8+	0.2+)
1998 09 17	699	1.1−	0.6+	1998 09 27	704	0.6+	0.6−	2000 01 30	704	0.1+	0.1+
1998 09 17	699	0.2−	0.8+	1998 09 27	704	0.4−	0.1−	2000 01 30	704	0.4+	0.3+
1998 09 17	699	0.6−	0.7+	1998 09 27	704	0.6+	0.3+	2000 01 30	704	0.3+	0.4+
1998 09 18	704	0.6−	0.1+	1998 09 27	704	1.0+	0.4−	2000 01 31	704	1.4−	0.4−
1998 09 18	704	0.3−	0.6+	1998 09 27	704	0.7+	0.6+	2000 01 31	704	0.2−	0.1+
1998 09 18	704	0.7−	1.2+	2000 01 03	704	(1.6+	2.8+)	2000 01 31	704	0.3+	0.3+

2000 BL₇ = 1998 SQ₁₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Doppler				Q			
<i>M</i>	12.56627	(2000.0)	<i>P</i>				
<i>n</i>	0.19933037	<i>ω</i>	26.30749	−0.40580086	−0.91260122		
<i>a</i>	2.9023764	<i>Ω</i>	87.66840	+0.82950318	−0.39065148		
<i>e</i>	0.0595002	<i>i</i>	2.85955	+0.38373186	−0.12062516		
<i>P</i>	4.94	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 09 26	704	1.0−	0.1−	1998 09 27	704	0.8+	0.2−	2000 01 30	704	0.4−	0.6+
1998 09 26	704	0.7+	1.3+	2000 01 29	704	0.0	0.0	2000 01 30	704	0.4+	0.6+
1998 09 26	704	0.4+	0.4−	2000 01 29	704	1.1+	0.1+	2000 02 06	704	0.7−	0.2+
1998 09 26	704	0.8−	0.6−	2000 01 29	704	0.0	0.2+	2000 02 06	704	1.3+	0.1+
1998 09 27	704	(3.1+	0.6−)	2000 01 30	704	0.6−	0.6−	2000 02 06	704	0.6−	0.0
1998 09 27	704	(3.7+	1.0+)	2000 01 30	704	0.5−	1.0−	2000 02 06	704	0.0	0.2−

2000 BY₈ = 1996 EC₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	41.49815		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22595192	ω	79.32497	+0.31174276	−0.94968597
a	2.6696768	Ω	352.30593	+0.75946042	+0.26815785
e	0.2150178	i	13.04336	+0.57099591	+0.16182682
P	4.36	H	15.6	G 0.15	U 4

M.P.C. 40098

2000 APR. 18

2000 01 02	704	0.4+	0.6+	2000 01 30	704	0.0	0.6+	2000 02 02	704	0.1+	1.2-
2000 01 02	704	0.6+	0.1-	2000 01 30	704	0.6+	0.1-	2000 02 02	704	0.9-	0.7+
2000 01 02	704	0.2+	0.7-	2000 01 30	704	0.9-	0.2-				

2000 BF₁₄ = 1994 RP₁₇

Id. G. V. Williams, M. E. Sansaturio, A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	59.13837		(2000.0)	P	Q	Williams
<i>n</i>	0.24560579	ω	84.64367	+0.35829282	-0.93352043	
<i>a</i>	2.5252845	Ω	344.34216	+0.83656116	+0.32714222	
<i>e</i>	0.1462878	<i>i</i>	2.73515	+0.41447760	+0.14668872	
<i>P</i>	4.01	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 6

Residuals in seconds of arc

1994 09 03	809	0.1-	1.3+	2000 02 03	704	0.9-	1.1+	2000 02 09	120	(1.5+	4.7+)
1994 09 03	809	1.0+	1.8+	2000 02 03	704	0.3+	0.9+	2000 02 10	120	0.2+	0.6+
1994 09 03	809	1.5+	1.7+	2000 02 03	704	0.6+	0.4+	2000 02 10	120	0.3+	0.1-
1994 09 04	809	0.6-	1.8-	2000 02 03	704	0.7+	1.5+	2000 02 11	704	0.5-	0.1+
1994 09 04	809	0.7-	1.5-	2000 02 03	704	1.0+	0.0	2000 02 11	704	0.7+	0.3+
1994 09 04	809	1.2-	1.3-	2000 02 04	376	0.4+	0.9-	2000 02 11	704	0.3-	0.4+
2000 01 28	376	0.2+	0.3-	2000 02 04	376	0.0	0.5+	2000 02 29	704	0.1-	0.5-
2000 01 28	376	0.0	0.2-	2000 02 06	120	0.7-	0.9-	2000 02 29	704	0.8+	0.2-
2000 01 30	376	0.3-	0.2-	2000 02 06	120	1.1-	1.2-	2000 02 29	704	0.1+	0.2+
2000 01 30	376	1.2-	0.1+	2000 02 09	376	0.7-	2.0+	2000 02 29	704	0.6-	0.4+
2000 02 02	376	1.0+	1.6-	2000 02 09	376	(1.8+	2.8+)				
2000 02 02	376	0.2+	1.6-	2000 02 09	120	0.0	0.5-				

2000 BB₁₅ = 1993 TQ₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	326.43931		(2000.0)	P	Q	Williams
<i>n</i>	0.21886453	ω	163.00197	-0.91328058	+0.39423866	
<i>a</i>	2.7270041	Ω	40.70016	-0.38960404	-0.77207145	
<i>e</i>	0.2441904	<i>i</i>	9.03839	-0.11885823	-0.49847925	
<i>P</i>	4.50	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1993 10 09	809	1.0+	0.1-	2000 01 03	704	0.3+	0.4+	2000 03 11	699	0.2-	0.2-
1993 10 09	809	0.5+	0.2+	2000 01 03	704	1.2+	0.9+	2000 03 11	699	0.2-	0.2+
1993 10 09	809	0.0	0.1-	2000 01 31	704	0.7+	0.4+	2000 03 11	699	0.1-	0.2-
1993 10 11	809	0.5-	0.8-	2000 01 31	704	0.5+	0.6+	2000 03 12	703	0.3-	0.0
1993 10 11	809	0.7-	0.9-	2000 01 31	704	0.4+	1.0+	2000 03 12	703	0.0	0.2+
1993 10 11	809	1.4-	0.8-	2000 01 31	411	(2.7-	4.6-)	2000 03 12	704	0.1+	0.0
1993 10 20	809	0.5+	1.1+	2000 01 31	411	(3.2-	4.6-)	2000 03 12	704	0.0	0.1+
1993 10 20	809	0.4+	0.4+	2000 02 01	411	0.4-	0.1-	2000 03 12	703	0.0	0.2+
1993 10 20	809	0.4+	0.8+	2000 02 01	411	0.7-	0.1-	2000 03 12	704	0.1+	0.3+
1999 12 15	704	0.5-	0.6-	2000 02 09	411	0.1+	0.6-	2000 03 12	703	0.1-	0.1-
1999 12 15	704	0.5-	0.0	2000 02 09	411	0.0	0.3-	2000 03 12	704	0.0	0.3+
1999 12 15	704	0.2+	0.3+	2000 02 27	411	0.9-	1.1-	2000 03 12	704	0.2+	0.6+
1999 12 15	704	0.7-	0.6-	2000 02 27	411	0.1+	0.4-	2000 04 02	704	0.0	0.5+
1999 12 15	704	0.3+	0.3+	2000 03 04	704	0.0	0.4-	2000 04 02	704	0.4-	0.7+
1999 12 15	704	0.4+	0.9-	2000 03 04	704	0.1+	0.2+	2000 04 02	704	0.2+	0.1+
1999 12 15	704	0.2-	0.3-	2000 03 04	704	0.1-	0.0	2000 04 02	704	0.9-	0.2+
1999 12 15	704	0.0	0.5+	2000 03 04	704	0.2-	0.0	2000 04 02	704	0.3-	0.4-
2000 01 03	704	0.7-	0.0	2000 03 08	411	0.5+	0.2-	2000 04 07	608	0.4+	0.6-
2000 01 03	704	0.0	0.3-	2000 03 08	411	0.0	0.2-	2000 04 07	608	0.3+	0.3-
2000 01 03	704	0.8+	0.2-	2000 03 11	699	0.2+	0.1-	2000 04 07	608	0.5+	0.6-

2000 BE₁₇ = 1976 UV₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	60.51968		(2000.0)	P	Q	Williams
<i>n</i>	0.26192087	ω	302.69651	+0.71247663	-0.70006617	
<i>a</i>	2.4192977	Ω	101.78642	+0.65903269	+0.64421544	
<i>e</i>	0.2074123	<i>i</i>	2.79858	+0.24094184	+0.30804842	
<i>P</i>	3.76	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1976 10 22	381	0.5-	0.3+	2000 01 04	704	0.9-	0.0	2000 01 30	704	0.1-	0.4-
1976 10 22	381	0.3+	0.3+	2000 01 11	691	0.1+	0.6-	2000 01 31	704	0.4+	0.2-
1976 10 24	381	0.1-	0.0	2000 01 11	691	0.2+	0.6-	2000 01 31	704	1.1+	0.5+
1999 10 22	704	0.5-	0.1-	2000 01 11	691	0.2+	0.6-	2000 01 31	704	0.0	0.3-
1999 10 22	704	0.1+	0.4-	2000 01 13	699	0.2+	1.1+	2000 01 31	704	0.1-	0.3+
1999 10 22	704	0.1+	0.3+	2000 01 13	699	0.3+	0.9+	2000 02 04	120	0.6-	0.5+
1999 10 22	704	0.0	0.0	2000 01 13	699	1.7+	0.0	2000 02 04	120	0.6-	0.2+
1999 11 17	704	0.2+	0.8-	2000 01 27	120	1.7-	0.0	2000 02 11	704	0.0	0.1+
1999 11 17	704	0.6+	0.2-	2000 01 27	120	0.5-	0.2+	2000 02 11	704	0.3-	0.4+
1999 11 17	704	0.1+	1.4-	2000 01 30	704	0.7+	0.4-	2000 02 11	704	0.5+	0.2+
2000 01 04	704	0.6-	0.4-	2000 01 30	704	0.3+	0.1-	2000 02 11	704	0.0	0.4+
2000 01 04	704	0.4-	0.4+	2000 01 30	704	0.5+	0.6-	2000 02 11	704	0.0	0.4+
2000 01 04	704	1.6-	1.0+	2000 01 30	704	0.8+	0.5-				

2000 BF₁₇ = 1998 RN₄₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	75.84659		(2000.0)	P	Q	Williams
<i>n</i>	0.21223566	ω	59.72804	+0.78589647	-0.61759931	
<i>a</i>	2.7834952	Ω	338.36622	+0.53496556	+0.70391334	
<i>e</i>	0.0871269	<i>i</i>	4.76478	+0.31012671	+0.35082346	
<i>P</i>	4.64	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.5-	0.2-	1999 12 15	704	0.2-	0.8+	2000 01 30	704	0.0	0.1-
1998 09 14	704	0.9+	1.5-	2000 01 03	704	1.1-	1.4-	2000 01 30	704	0.0	0.7+
1998 09 14	704	0.4+	1.3-	2000 01 03	704	1.3+	0.1-	2000 01 31	704	0.2+	0.4+
1998 09 14	704	(2.1+	1.1-)	2000 01 03	704	0.4+	1.0-	2000 01 31	704	0.1-	0.0
1998 09 18	704	0.8+	0.3+	2000 01 03	704	0.2+	0.5+	2000 01 31	704	0.4+	0.2+
1998 09 18	704	(2.2-	0.9-)	2000 01 03	704	0.6+	0.3+	2000 01 31	704	0.1-	0.1+
1998 09 18	704	0.4+	1.5+	2000 01 04	704	0.3+	0.2-	2000 02 11	704	0.8-	0.1+
1998 09 18	704	1.0-	0.1-	2000 01 04	704	0.1-	0.2+	2000 02 11	704	0.4+	1.2-
1998 09 18	704	1.1-	1.4+	2000 01 04	704	0.1+	0.2+	2000 02 11	704	0.5-	1.0+
1999 12 15	704	0.8-	0.6-	2000 01 04	704	0.5+	1.4-	2000 02 11	704	1.0+	0.7+
1999 12 15	704	0.9-	1.0+	2000 01 30	704	0.7-	0.5-	2000 02 11	704	0.4-	0.5+

2000 BN₁₈ = 1998 SY₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	43.01572		(2000.0)	P	Q	Williams
<i>n</i>	0.20656584	ω	348.64451	+0.10897292	-0.99232265	
<i>a</i>	2.8341993	Ω	95.07987	+0.91655528	+0.07752946	
<i>e</i>	0.0304187	<i>i</i>	3.36618	+0.38477439	+0.09635844	
<i>P</i>	4.77	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.0	0.4+	1998 09 27	704	0.6-	0.0	2000 01 30	704	0.9-	0.1-
1998 09 26	704	0.4-	1.7-	1998 09 27	704	(0.9+	3.0-)	2000 01 31	704	0.1-	0.2-
1998 09 26	704	0.1+	0.5+	2000 01 13	699	0.4+	0.0	2000 01 31	704	1.0-	0.2+
1998 09 26	704	1.0+	0.4+	2000 01 13	699	0.1-	0.5-	2000 01 31	704	0.5+	0.5-
1998 09 26	704	0.7+	0.5+	2000 01 13	699	0.5+	0.5+	2000 02 11	704	1.1+	0.4-
1998 09 27	704	0.1-	0.6-	2000 01 30	704	0.7-	0.1+	2000 02 11	704	0.5+	0.4-
1998 09 27	704	0.7-	0.5+	2000 01 30	704	0.0	0.5+	2000 02 11	704	0.2-	0.8+

2000 BO₂₉ = 1998 XX₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.78122		(2000.0)	P	Q	Williams
<i>n</i>	0.21614021	ω	242.76632	-0.64503244	-0.75819222	
<i>a</i>	2.7498711	Ω	247.73044	+0.73246356	-0.57792175	
<i>e</i>	0.1046192	<i>i</i>	5.90944	+0.21778495	-0.30191226	
<i>P</i>	4.56	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 15	704	0.0	0.4-	2000 01 28	704	2.0+	0.6-	2000 04 07	704	0.3-	0.2+
1998 12 15	704	1.8+	0.3-	2000 02 02	704	0.8-	0.2-	2000 04 07	704	0.1+	0.0

2000 APR. 18

M.P.C. 40099

1998 12 15	704	0.1+	0.5−	2000 02 02	704	0.5−	0.0	2000 04 07	704	0.5+	0.0
1998 12 15	704	0.4+	0.4+	2000 02 02	704	0.2−	0.8+	2000 04 07	704	0.3+	0.2−
1998 12 15	704	0.6+	0.8+	2000 03 14	704	0.1−	0.2−	2000 04 07	704	0.2+	0.0
1998 12 22	704	0.1+	0.0	2000 03 14	704	0.3−	1.1+	2000 04 08	704	0.2−	0.3+
1998 12 22	704	1.5−	0.4−	2000 03 14	704	0.3+	0.6+	2000 04 08	704	0.3−	0.1+
1998 12 22	704	0.7−	0.3−	2000 03 14	704	0.6−	0.3−	2000 04 08	704	0.6−	0.0
1998 12 22	704	1.1−	0.5+	2000 03 30	704	(3.3−	3.8+)	2000 04 08	704	0.6+	0.3+
1998 12 22	704	0.0	0.2+	2000 03 30	704	(2.4−	1.7+)	2000 04 08	704	0.2−	0.5−
2000 01 28	704	0.0	0.2−	2000 03 30	704	0.8+	0.7−				
2000 01 28	704	0.8−	0.7−	2000 03 30	704	(0.6+	3.0−)				

2000 CP₁₁ = 1998 SV₂₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	322.07534		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24415486	ω	14.11222	−0.99789729	−0.06224418
a	2.5352793	Ω	162.28923	+0.05220033	−0.93709526
e	0.0766236	i	3.40606	+0.03842039	−0.34347946
P	4.04	H	15.2	G 0.15	U 5

Residuals in seconds of arc

1998 09 18	691	0.1+	0.0	2000 02 02	704	0.6−	0.1+	2000 02 06	704	0.5+	1.1+
1998 09 18	691	0.1+	0.0	2000 02 02	704	0.6−	0.1+	2000 02 06	704	1.2+	0.0
1998 09 18	691	0.0	0.1+	2000 02 02	704	0.3−	0.0	2000 02 08	704	0.6+	0.4+
1998 09 25	691	0.5−	0.0	2000 02 02	704	0.2−	0.4−	2000 02 08	704	0.0	0.0
1998 09 25	691	0.2+	0.1−	2000 02 02	704	0.0	0.0	2000 02 08	704	0.5−	0.2−
1998 09 25	691	0.1+	0.0	2000 02 03	704	0.3−	0.1−	2000 02 08	704	1.5+	1.9−
1999 12 31	699	0.1−	0.5+	2000 02 03	704	0.6−	0.2+	2000 02 08	704	0.1+	1.0−
1999 12 31	699	0.9−	0.1−	2000 02 03	704	0.3−	0.4+	2000 02 11	704	0.7−	0.1−
1999 12 31	699	0.2+	0.2−	2000 02 03	704	0.9−	0.1+	2000 02 11	704	0.3−	0.6+
2000 01 05	704	0.0	0.2+	2000 02 03	704	0.4−	0.1+	2000 02 11	704	0.1−	0.1+
2000 01 05	704	0.3+	0.2−	2000 02 06	704	0.1+	0.2+	2000 02 11	704	0.1+	1.0+
2000 01 05	704	0.2+	0.3−	2000 02 06	704	0.8+	0.9−				
2000 01 05	704	0.8+	0.2+	2000 02 06	704	0.4+	0.0				

2000 CR₁₂ = 1996 TG₆₅ = 1997 XV₁₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	59.08123		(2000.0)	P	Q
n	0.08221357	ω	235.48499	+0.48174342	−0.87621741
a	5.2380989	Ω	185.76050	+0.84022649	+0.46603553
e	0.0863520	i	7.38265	+0.24888296	+0.12269451
P	11.99	H	11.8	G 0.15	U 2

Residuals in seconds of arc

1996 10 13	566	0.5+	0.1+	1997 12 05	809	1.6−	0.0	2000 02 04	704	0.6−	0.3+
1996 10 13	566	0.4+	0.1−	1997 12 05	809	0.6−	0.7+	2000 02 04	704	0.3+	0.6−
1996 10 13	566	0.3−	0.0	1998 12 15	704	1.7+	0.5−	2000 02 04	704	0.4+	0.1−
1996 10 14	327	0.2−	0.6−	1998 12 15	704	0.4+	0.0	2000 02 04	704	0.1+	1.2−
1996 10 14	327	0.5+	0.2−	1998 12 15	704	1.2−	0.4+	2000 02 06	704	0.7−	0.1−
1996 10 14	327	0.2−	0.2−	1998 12 15	704	(1.7+	3.5−)	2000 02 06	704	0.8+	1.1+
1997 11 06	704	0.0	0.1−	1998 12 15	704	(0.1+	3.0−)	2000 02 06	704	0.2+	0.1+
1997 11 06	704	0.9+	1.4+	2000 02 02	704	0.5+	0.2−	2000 02 06	704	0.3+	0.1+
1997 11 06	704	1.3+	0.6−	2000 02 02	704	0.0	0.4−	2000 02 08	704	0.2−	0.1+
1997 11 06	704	1.6+	0.4−	2000 02 02	704	0.1+	0.2−	2000 02 08	704	0.8−	0.2+
1997 12 04	809	1.4−	0.0	2000 02 02	704	0.9−	0.3−	2000 02 08	704	0.3+	0.0
1997 12 04	809	1.3−	0.2+	2000 02 02	704	0.5+	0.3+	2000 02 08	704	0.9−	0.1+

2000 CC₂₈ = 1989 SG₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	40.67587		(2000.0)	P	Q
n	0.22820603	ω	112.10948	−0.75772107	−0.64537206
a	2.6520679	Ω	27.98082	+0.49654905	−0.66634952
e	0.1386602	i	11.89605	+0.42343573	−0.37346113
P	4.32	H	13.0	G 0.15	U 1

Residuals in seconds of arc

1989 09 26	809	0.7−	0.0	1998 12 24	699	0.1−	0.7+	2000 04 05	704	0.2−	0.2−
1989 09 26	809	0.6−	0.4+	1998 12 24	699	0.2+	1.1+	2000 04 05	704	0.2−	0.3−
1989 09 26	809	0.3−	0.3+	1998 12 24	699	0.7−	0.3+	2000 04 05	704	0.2−	0.3−
1989 09 28	809	0.4−	0.6+	1999 11 09	703	(0.9−	2.7+)	2000 04 05	704	0.2−	0.1−
1989 09 28	809	0.4−	0.1+	1999 11 09	703	0.8+	0.3−	2000 04 06	704	0.0	0.1−
1989 09 28	809	0.6−	0.0	1999 11 09	703	0.2+	0.3−	2000 04 06	704	0.0	0.3−
1989 09 29	675	1.4−	1.2+	1999 11 09	703	1.0−	0.3−	2000 04 06	704	0.0	0.2−
1989 09 29	675	1.0−	0.3+	2000 01 08	699	0.2+	0.1−	2000 04 06	704	0.0	0.0
1989 10 03	809	2.4+	1.6−	2000 01 08	699	0.1+	0.6+	2000 04 06	704	0.0	0.1+
1989 10 03	809	2.0+	1.5−	2000 01 08	699	0.4+	0.4+	2000 04 07	704	0.2+	0.3−
1989 10 03	809	1.6+	1.1−	2000 02 08	704	0.3+	0.1+	2000 04 07	704	0.2+	0.2−
1998 08 31	704	(1.2−	2.1−)	2000 02 08	704	0.5+	0.6+	2000 04 07	699	0.0	0.4−
1998 08 31	704	(2.1+	1.0−)	2000 02 08	704	0.1+	0.3+	2000 04 07	704	0.0	0.5−
1998 08 31	704	0.4+	0.3−	2000 02 10	704	0.4+	0.3+	2000 04 07	699	0.3−	0.3−
1998 08 31	704	0.2−	0.3+	2000 02 10	704	0.1+	0.7+	2000 04 07	699	0.2−	0.2−
1998 12 14	704	0.4−	0.7+	2000 02 10	704	0.0	0.8+	2000 04 07	704	0.2+	0.2−
1998 12 14	704	0.1−	0.0	2000 03 14	703	0.3−	0.1−	2000 04 07	699	0.2−	0.4−
1998 12 14	704	0.1−	0.7−	2000 03 14	703	0.2−	0.2−	2000 04 10	608	0.2−	0.2+
1998 12 14	704	0.2−	1.7−	2000 03 14	703	0.5−	0.0	2000 04 10	608	0.2−	0.4+
1998 12 14	704	1.7+	1.2−	2000 03 14	703	0.3−	0.6−	2000 04 10	608	0.1−	0.2+

2000 CU₂₉ = 1998 QD₉₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	77.49392		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.18181361	ω	70.92613	+0.81134679	−0.56904710
a	3.0859232	Ω	323.41205	+0.41537490	+0.72226351
e	0.3294059	i	12.97180	+0.41131507	+0.39309137
P	5.42	H	14.0	G 0.15	U 4

Residuals in seconds of arc

1998 08 23	704	0.8−	0.3−	2000 02 02	704	0.2−	0.0	2000 02 06	704	0.4−	0.3−
1998 08 23	704	0.2−	0.2−	2000 02 02	704	0.1+	0.8−	2000 02 06	704	1.4−	0.5−
1998 08 23	704	1.0−	0.5+	2000 02 02	704	0.2+	0.3+	2000 03 03	704	1.3+	0.5−
1998 08 23	704	1.3+	1.2+	2000 02 02	704	0.2+	1.0−	2000 03 03	704	0.0	0.9−
1998 08 23	704	1.7−	1.5−	2000 02 02	704	0.4−	0.6−	2000 03 03	704	0.0	0.6−
1998 08 27	704	0.8+	0.5+	2000 02 04	704	0.1+	0.5−	2000 03 05	704	0.3−	0.5−
1998 08 27	704	1.5+	0.1+	2000 02 04	704	1.0+	1.7+	2000 03 05	704	0.6−	0.4+
1998 08 27	704	0.2+	0.3+	2000 02 04	704	1.2+	1.8+	2000 03 05	704	0.5−	0.1+
1998 08 27	704	0.0	0.0	2000 02 06	704	0.4−	0.1−	2000 03 05	704	0.2+	0.6+
1998 08 27	704	0.0	0.6−	2000 02 06	704	0.0	0.4+	2000 03 05	704	0.0	0.7+

2000 CB₃₉ = 1998 XY₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	193.33556		(2000.0)	P	Q
n	0.21379558	ω	223.73784	+0.80982726	+0.55937156
a	2.7699392	Ω	101.44235	−0.47631869	+0.80291279
e	0.1545588	i	10.39640	−0.34249134	+0.20599637
P	4.61	H	13.7	G 0.15	U 3

Residuals in seconds of arc

1997 09 02	566	0.0	0.7+	1998 12 22	704	0.1+	0.9+	2000 03 04	704	0.0	0.1−
1997 09 02	566	0.1−	0.5+	1998 12 22	704	(0.1−	2.2−)	2000 03 04	704	0.0	0.8+
1997 09 02	566	0.2−	0.6+	1998 12 22	704	0.2−	0.4+	2000 03 11	699	0.1−	0.6+
1998 12 15	704	0.5+	0.5−	1998 12 22	704	0.5+	0.5+	2000 03 11	699	0.2−	0.3−
1998 12 15	704	0.1+	0.4+	2000 02 03	704	0.1+	0.5−	2000 03 11	699	0.4−	0.3−

M.P.C. 40100

2000 APR. 18

1998 12 15	704	0.5−	1.4−	2000 02 03	704	0.2+	0.2−	2000 03 11	699	0.3+	0.5+
1998 12 15	704	1.2−	0.7+	2000 02 03	704	0.6−	0.6+	2000 03 12	704	0.1+	0.1+
1998 12 15	704	0.8+	0.6−	2000 02 03	704	0.2+	0.5−	2000 03 12	704	0.5−	0.1−
1998 12 16	704	0.6+	0.6−	2000 02 03	704	0.8+	0.7−	2000 03 12	704	0.5+	1.0+
1998 12 16	704	(0.3−	2.8+)	2000 02 05	704	0.2+	0.6−	2000 03 12	704	0.3−	0.2+
1998 12 16	704	(0.5−	2.1+)	2000 02 05	704	0.1−	1.1+	2000 03 12	704	0.1−	0.7+
1998 12 16	704	0.6+	1.3+	2000 02 05	704	0.3+	0.3−				
1998 12 22	704	1.2−	0.7−	2000 03 04	704	0.1+	0.5−				

2000 CO₄₃ = 1991 OL = 1998 VX₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	248.04076		(2000.0)	P	Q
<i>n</i>	0.29998473	ω	54.86703	+0.08349299	+0.99510576
<i>a</i>	2.2100560	Ω	220.02465	−0.93893150	+0.06079080
<i>e</i>	0.1744708	<i>i</i>	4.71404	−0.33382114	+0.07790387
<i>P</i>	3.29	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 07 16	675	0.1−	1.4+	1998 11 11	704	0.3+	0.6−	2000 02 06	704	0.0	0.2−
1991 07 16	675	(2.9+	0.5+)	1998 11 11	704	0.2−	1.7−	2000 02 28	703	0.8−	0.3−
1991 07 18	675	0.3−	0.7−	2000 02 02	704	1.0+	0.1+	2000 02 28	703	1.2−	0.1+
1991 07 18	675	0.3+	0.2−	2000 02 02	704	0.6+	0.6+	2000 02 28	703	0.1−	0.2−
1998 10 19	699	1.6+	1.1+	2000 02 02	704	0.5+	0.2+	2000 02 28	703	1.0−	0.3−
1998 10 19	699	0.4+	0.1+	2000 02 02	704	0.2+	0.9+	2000 03 05	608	0.4+	0.2+
1998 10 19	699	0.8+	1.0+	2000 02 02	704	0.3+	0.2+	2000 03 05	608	0.2−	0.1−
1998 11 10	704	1.7−	0.1−	2000 02 06	704	0.4+	0.3+	2000 03 05	608	0.4−	0.1+
1998 11 10	704	0.5−	0.7−	2000 02 06	704	0.5+	0.1−	2000 03 06	704	1.0−	0.4+
1998 11 10	704	(2.4−	0.5+)	2000 02 06	704	0.2+	0.0	2000 03 06	704	0.4−	0.8−
1998 11 11	704	0.8−	0.8+	2000 02 06	704	0.6+	0.4−	2000 03 06	704	0.7+	0.2−

2000 CQ₄₃ = 1998 VQ₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	251.45226		(2000.0)	P	Q
<i>n</i>	0.28853341	ω	77.29780	−0.01039443	+0.99957753
<i>a</i>	2.2681511	Ω	192.20444	−0.96002900	−0.01756857
<i>e</i>	0.1458089	<i>i</i>	7.37676	−0.27970747	+0.02315382
<i>P</i>	3.42	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 10 14	699	0.1+	1.0+	2000 01 08	704	0.1−	1.9−	2000 02 28	703	0.5−	1.0+
1998 10 14	699	0.2−	0.6+	2000 01 08	704	1.1−	0.1+	2000 03 06	704	0.0	0.2−
1998 10 14	699	0.7−	0.7+	2000 01 08	704	(1.3−	2.2−)	2000 03 06	704	0.0	0.6+
1998 11 10	704	0.4−	0.1−	2000 02 02	704	0.4+	0.2−	2000 03 06	704	1.4+	0.1+
1998 11 10	704	0.1−	0.2−	2000 02 02	704	1.2+	0.9+	2000 03 06	704	0.5+	0.1+
1998 11 10	704	(3.1−	0.4−)	2000 02 02	704	0.2−	1.1+	2000 03 06	704	1.8−	0.4+
1998 11 11	704	0.8+	1.1−	2000 02 02	704	0.3+	0.0	2000 03 10	608	0.3−	0.6−
1998 11 11	704	0.3+	0.4−	2000 02 02	704	0.2−	0.1+	2000 03 10	608	0.6−	0.1−
1998 11 11	704	(1.0−	2.4−)	2000 02 06	704	0.5−	1.5−	2000 03 10	608	0.9−	0.2+
1998 11 11	704	0.7+	1.6−	2000 02 06	704	0.3−	0.5+	2000 04 08	704	0.1+	0.5−
1998 11 11	704	0.1−	0.4−	2000 02 06	704	0.2+	0.6−	2000 04 08	704	0.5+	0.3−
1998 11 19	699	0.0	0.8+	2000 02 06	704	0.5−	0.1+	2000 04 08	704	0.9−	0.5+
1998 11 19	699	0.6−	0.3+	2000 02 28	703	0.3+	0.4+	2000 04 08	704	0.8+	0.3+
1998 11 19	699	0.1+	0.7+	2000 02 28	703	(3.6−	1.3+)	2000 04 08	704	0.7+	0.4−
2000 01 08	704	0.7+	0.1+	2000 02 28	703	0.7+	0.2−				

2000 CA₄₅ = 1986 WP₆ = 1990 TN₇ = 1998 RG₂₇

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	35.17788		(2000.0)	P	Q
<i>n</i>	0.23347235	ω	249.12167	−0.14285208	−0.98913780
<i>a</i>	2.6120355	Ω	209.15793	+0.93244666	−0.12276549
<i>e</i>	0.2055364	<i>i</i>	4.07664	+0.33186820	−0.08083967
<i>P</i>	4.22	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1986 11 28	010	0.3−	2.0−	1999 11 06	703	0.4−	0.2−	2000 02 02	704	0.0	0.7+
1986 11 28	010	(1.4−	4.8−)	1999 11 06	703	0.4−	0.4+	2000 02 02	704	0.2−	0.9+
1986 11 28	010	(0.9−	4.0−)	1999 11 17	704	0.6−	1.1−	2000 02 06	704	0.0	0.5+
1990 10 13	033	0.2+	0.3+	1999 11 17	704	0.2−	0.1+	2000 02 06	704	0.1+	0.0
1990 10 13	033	1.0+	0.3+	1999 11 17	704	0.4−	0.3−	2000 02 06	704	0.1+	0.5+
1990 10 14	033	0.3−	0.5+	1999 11 17	704	0.3−	0.7−	2000 02 06	704	0.1+	0.5+
1990 10 18	033	0.5−	0.0	1999 12 05	703	0.2−	0.9+	2000 02 06	704	0.1+	0.4+
1996 03 21	566	0.3+	0.3+	1999 12 05	703	0.2+	0.1+	2000 02 12	704	(1.8−	6.4−)
1996 03 21	566	0.0	0.5+	1999 12 05	704	0.4−	0.4+	2000 02 12	704	0.0	0.2+
1996 03 21	566	0.3+	0.5+	1999 12 05	703	0.3+	0.3+	2000 02 12	704	(1.1+	4.7+)
1998 08 17	704	0.0	0.1−	1999 12 05	704	0.3−	0.7−	2000 02 13	704	(0.9−	4.5+)
1998 08 17	704	0.3−	0.4+	1999 12 05	703	0.0	0.1+	2000 02 13	704	0.9+	1.1+
1998 08 17	704	1.6−	1.1+	1999 12 05	704	2.0−	1.7+	2000 02 13	704	0.4+	0.7−
1998 08 17	704	1.7+	1.6+	1999 12 05	704	0.4−	0.2+	2000 03 06	704	0.1+	0.3−
1998 08 17	704	0.2+	1.4+	1999 12 05	704	0.1+	0.1+	2000 03 06	704	0.3−	0.1−
1998 09 14	704	0.4+	0.2−	1999 12 14	704	0.2+	0.4+	2000 03 06	704	0.6+	0.3−
1998 09 14	704	0.1−	0.6+	1999 12 14	704	0.2+	0.7−	2000 03 06	704	0.2+	0.3−
1998 09 14	704	0.1−	0.6+	1999 12 14	704	0.3+	0.3−	2000 03 08	608	0.3−	0.7−
1998 09 14	704	1.7−	1.4−	1999 12 14	704	0.1+	0.8−	2000 03 08	608	0.2−	0.6−
1998 09 14	704	0.6+	1.5+	1999 12 14	704	0.1+	0.1−	2000 03 08	608	0.1−	0.5−
1998 09 18	704	1.2−	0.7+	1999 12 16	699	1.2+	0.5+	2000 03 14	608	0.1+	0.9−
1998 09 18	704	0.5−	1.1+	1999 12 16	699	0.3−	1.2+	2000 03 14	608	0.5+	1.3−
1998 09 18	704	0.4+	1.5−	1999 12 16	699	0.5−	1.0+	2000 03 14	608	0.2+	1.2+
1998 09 18	704	0.2+	1.0−	2000 02 02	704	0.1+	0.4+	2000 04 02	699	0.4−	0.1+
1999 11 06	703	1.3+	0.2+	2000 02 02	704	0.4+	0.4+	2000 04 02	699	0.1−	0.3+
1999 11 06	703	0.2−	1.2−	2000 02 02	704	0.1+	0.7+	2000 04 02	699	0.0	0.2+

2000 CN₄₅ = 1998 RT₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	57.02010		(2000.0)	P	Q
<i>n</i>	0.23038662	ω	262.30164	+0.16148482	−0.98686462
<i>a</i>	2.6353070	Ω	178.38385	+0.95723008	+0.15550625
<i>e</i>	0.1298929	<i>i</i>	9.32096	+0.24006921	+0.04377237
<i>P</i>	4.28	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	0.2+	0.7−	1998 09 25	699	0.4−	0.6−	2000 02 13	704	0.3+	0.1−
1998 09 14	704	(0.5+	2.0−)	2000 02 02	704	0.4−	1.5+	2000 02 13	704	0.2−	0.5−
1998 09 14	704	1.4+	0.5−	2000 02 02	704	0.6+	0.2+	2000 03 09	608	0.1−	0.3+
1998 09 18	704	0.4+	1.8+	2000 02 02	704	0.7+	0.3−	2000 03 09	608	0.2+	0.3+
1998 09 18	704	0.1−	0.1−	2000 02 02	704	0.2−	0.2−	2000 03 09	608	0.1−	0.2−
1998 09 18	704	0.3−	1.0−	2000 02 06	704	0.5+	0.4+	2000 03 13	704	0.2−	0.3−
1998 09 18	704	0.5−	1.1+	2000 02 06	704	0.5−	1.2−	2000 03 13	704	0.1−	0.0
1998 09 18	704	0.8−	0.5−	2000 02 06	704	0.1+	0.4+	2000 03 13	704	0.0	0.1+
1998 09 25	699	0.1+	0.3+	2000 02 06	704	0.2+	0.3+	2000 03 13	704	0.4+	0.2−
1998 09 25	699	(0.3+	2.5+)	2000 02 13	704	1.1−	0.3−				

2000 CK₄₆ = 1997 JM₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	62.46029		(2000.0)	P	Q
<i>n</i>	0.28237623	ω	272.45976	+0.21737267	−0.97554616
<i>a</i>	2.3010036	Ω	164.86607	+0.93775836	+0.19947019
<i>e</i>	0.1087916	<i>i</i>	7.15973	+0.27084751	+0.09231109
<i>P</i>	3.49	<i>H</i>	16.2	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1997 05 01	691	1.4+	0.4−	2000 02 02	704	0.4−	0.5−	2000 02 06	704	0.4−	0.1+
1997 05 01	691	1.0+	0.2+	2000 02 02	704	0.3+	0.4−	2000 02 06	704	0.2+	0.5−
1997 05 01	691	0.4+	0.2+	2000 02 02	704	0.3+	0.1−	2000 02 29	704	0.1+	0.1−
1997 05 10	691	0.9−	0.0	2000 02 02	704	0.1−	0.8+	2000 02 29	704	0.1+	0.5−
1997 05 10	691	1.1−	0.4+	2000 02 02	704	0.5−	0.7+	2000 02 29	704	0.7−	0.0
1997 05 10	691	0.9−	0.3−	2000 02 06	704	0.8+	0.0	2000 02 29	704	0.7−	0.5+

2000 APR. 18

M.P.C. 40101

2000 CD₄₈ = 1998 SY₁₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22118635	ω	197.54894	-0.17980138	-0.97845690		
<i>a</i>	2.7078868	Ω	262.90059	+0.91434908	-0.12819326		
<i>e</i>	0.0845580	<i>i</i>	5.86824	+0.36281845	-0.16182889		
<i>P</i>	4.46	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 26	704	0.5-	0.1-	1999 11 17	704	0.2-	0.5-	2000 03 06	704	0.2-	0.8+
1998 09 26	704	(0.2+	2.6-)	1999 11 17	704	1.2-	0.2+	2000 03 06	704	1.6+	1.0+
1998 09 26	704	0.0	0.9-	1999 11 17	704	1.3+	0.2-	2000 03 08	704	0.6+	0.1+
1998 09 26	704	(0.4-	2.6-)	1999 11 17	704	0.9-	0.2-	2000 03 08	704	0.4-	0.8-
1998 09 26	704	0.8-	0.5-	2000 02 02	704	0.3+	0.1-	2000 03 08	704	0.1-	0.6+
1998 09 27	704	0.1-	1.1-	2000 02 02	704	0.8+	0.1-	2000 03 08	704	0.4-	0.9+
1998 09 27	704	0.4-	1.0+	2000 02 02	704	0.1-	0.1+	2000 03 08	704	0.1-	0.7+
1998 09 27	704	1.1+	0.7+	2000 02 02	704	0.3+	0.2+	2000 03 10	608	0.0	1.0-
1998 09 27	704	0.6-	0.1-	2000 02 02	704	0.6+	0.2+	2000 03 10	608	0.3+	0.5-
1998 09 27	704	0.4+	1.3+	2000 02 06	704	0.0	0.3-	2000 03 10	608	0.4-	1.5-
1998 11 11	704	0.1-	0.1+	2000 02 06	704	0.5-	0.1-	2000 03 13	704	0.8-	0.9+
1998 11 11	704	0.1+	0.2+	2000 02 06	704	0.4-	0.2-	2000 03 13	704	0.2-	0.8-
1998 11 11	704	1.3+	0.1+	2000 02 06	704	0.1+	0.3-	2000 03 13	704	0.3-	0.5+
1998 11 11	704	0.5-	0.2-	2000 02 06	704	0.2-	0.2-				
1998 11 11	704	(2.4-	0.4-)	2000 03 06	704	0.2+	0.6+				

2000 CT₄₈ = 1976 GA₅ = 1998 VV₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24472944	ω	12.38271	-0.89315827	+0.44903264		
<i>a</i>	2.5313095	Ω	194.37961	-0.42082080	-0.85421764		
<i>e</i>	0.1684215	<i>i</i>	5.83751	-0.15867630	-0.26207233		
<i>P</i>	4.03	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1976 04 02	095	0.3-	1.0-	2000 02 02	704	0.3+	0.1-	2000 03 11	699	0.4-	0.1+
1998 11 10	704	0.3+	0.3+	2000 02 02	704	0.4+	0.0	2000 03 11	699	0.3-	0.1+
1998 11 10	704	1.3-	0.6-	2000 02 02	704	0.2-	0.0	2000 03 13	704	0.4+	0.1+
1998 11 10	704	0.1-	0.1-	2000 02 02	704	0.0	0.4+	2000 03 13	704	0.2+	0.4+
1998 11 10	704	(2.0+	0.5-)	2000 02 06	704	0.1-	0.4-	2000 03 13	704	0.1-	0.3-
1998 11 11	704	0.0	1.1+	2000 02 06	704	0.1+	0.4-	2000 03 13	704	0.5+	0.0
1998 11 11	704	0.6+	0.3+	2000 02 06	704	0.2-	0.0	2000 03 13	704	0.3+	0.0
1998 11 11	704	0.3+	0.0	2000 02 06	704	0.6-	0.4-	2000 04 03	704	0.1+	0.4-
1998 11 11	704	(2.7-	1.1+)	2000 02 06	704	0.2-	0.0	2000 04 03	704	0.3-	0.7+
1999 12 05	703	0.2-	0.1-	2000 02 12	704	0.0	0.2-	2000 04 03	704	0.3-	0.3+
1999 12 05	703	(1.2-	2.7-)	2000 02 12	704	0.0	0.7-	2000 04 03	704	0.2+	0.7+
1999 12 05	703	0.0	0.2+	2000 02 12	704	0.0	0.1-	2000 04 03	704	1.1+	1.7+
1999 12 05	703	0.4+	0.4+	2000 02 12	704	0.1+	0.0	2000 04 04	699	0.3-	0.2+
1999 12 14	704	1.0+	0.2-	2000 02 12	704	0.2-	0.3+	2000 04 04	699	0.4-	0.0
1999 12 14	704	0.2+	0.6-	2000 03 06	608	0.3-	0.4-	2000 04 04	699	0.2-	0.1+
1999 12 14	704	0.5-	0.4-	2000 03 06	608	0.2-	0.5-	2000 04 04	699	0.1-	0.5+
1999 12 14	704	0.1+	0.5-	2000 03 06	608	0.6-	0.3-	2000 04 08	704	(3.3+	0.8-)
1999 12 14	704	0.1-	0.4-	2000 03 11	699	0.1-	0.3+	2000 04 08	704	(2.3+	0.0)
2000 02 02	704	0.1-	0.3-	2000 03 11	699	0.1-	0.3+	2000 04 08	704	1.3+	1.1+

2000 CR₄₉ = 1993 BT₁₃ = 1998 WK₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28783298	ω	13.67579	+0.17167835	+0.98190345		
<i>a</i>	2.2718292	Ω	266.25374	-0.91122828	+0.12742775		
<i>e</i>	0.1771329	<i>i</i>	4.59559	-0.37441898	+0.14009918		
<i>P</i>	3.42	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 01 23	809	0.5+	0.7-	1998 11 21	704	0.7+	0.7+	2000 02 06	704	1.2+	0.6+
1993 01 28	809	0.8+	0.4+	1998 11 21	704	0.3+	1.5+	2000 02 06	704	0.2-	1.0-

1993 01 28	809	1.2-	0.4-	1998 11 21	704	1.1-	0.1+	2000 03 11	699	0.6-	0.0
1995 10 21	327	0.2-	0.3-	1998 11 21	704	(0.5-	2.1+)	2000 03 11	699	0.4-	0.1-
1995 10 21	327	0.3-	0.2+	1998 11 21	704	(0.0	2.3+)	2000 03 11	699	0.2-	0.1+
1995 10 21	327	0.5-	0.2+	1998 12 16	699	1.9-	1.3+	2000 03 11	699	0.2-	0.3-
1998 10 19	699	0.1+	0.2+	1998 12 16	699	0.2+	1.1+	2000 03 13	704	0.3+	0.3-
1998 10 19	699	0.7-	1.1+	1998 12 16	699	0.1+	0.3-	2000 03 13	704	0.4-	0.0
1998 10 19	699	0.3-	1.1-	1999 12 05	703	1.0+	0.9+	2000 03 13	704	0.6-	0.3+
1998 11 10	699	0.1+	0.7-	1999 12 05	703	1.9+	0.3-	2000 03 13	704	0.4-	0.2-
1998 11 10	704	0.3-	0.3+	1999 12 05	703	0.2+	0.2-	2000 03 13	704	0.0	0.2+
1998 11 10	704	(0.1+	2.2-)	1999 12 05	703	0.3+	1.4-	2000 03 27	699	0.1+	0.0
1998 11 10	704	0.1-	0.5-	2000 02 02	704	0.0	0.2-	2000 03 27	699	0.5+	0.1+
1998 11 10	699	0.4+	1.2-	2000 02 02	704	0.0	0.0	2000 03 27	699	0.2+	0.0
1998 11 10	704	(0.0	2.7-)	2000 02 02	704	0.0	0.2+	2000 03 27	699	0.2-	0.1+
1998 11 10	699	0.5+	0.1+	2000 02 02	704	0.4-	0.9+	2000 04 05	704	0.3+	0.4-
1998 11 18	704	0.5+	0.1+	2000 02 02	704	0.2-	0.1-	2000 04 05	704	0.7+	0.4+
1998 11 18	704	1.0+	1.6-	2000 02 06	704	0.6-	0.3+	2000 04 05	704	0.4+	1.4+
1998 11 18	704	(2.5-	0.5+)	2000 02 06	704	0.7-	0.7-				
1998 11 18	704	0.2+	0.6-	2000 02 06	704	0.3-	0.1+				

2000 CS₄₉ = 1998 SU₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27825766	ω	234.64623	-0.61783255	-0.78356964		
<i>a</i>	2.3236531	Ω	253.64528	+0.74178476	-0.55314702		
<i>e</i>	0.0516432	<i>i</i>	3.91934	+0.26084154	-0.28292579		
<i>P</i>	3.54	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	1.6+	1.2-	2000 02 02	704	0.2+	0.3+	2000 03 11	699	0.1-	0.0
1998 09 26	704	0.2-	0.9+	2000 02 02	704	0.1+	0.4-	2000 03 11	699	0.5-	0.7-
1998 09 26	704	0.1+	1.4-	2000 02 02	704	0.4+	0.5-	2000 03 11	699	0.3-	0.1+
1998 09 26	704	1.3-	0.9+	2000 02 02	704	0.7+	0.0	2000 03 11	699	0.5-	0.3+
1998 09 26	704	0.8-	1.3-	2000 02 02	704	0.1+	0.5-	2000 03 13	704	0.1-	0.0
1998 09 27	704	0.3-	0.2+	2000 02 06	704	0.8-	0.3+	2000 03 13	704	0.1-	0.1-
1998 09 27	704	0.8+	0.9-	2000 02 06	704	0.0	0.1+	2000 03 13	704	(2.2+	0.8+)
1998 09 27	704	0.0	0.7+	2000 02 06	704	0.9+	0.9+	2000 03 13	704	1.0+	0.9-
1998 09 27	704	1.0-	1.1-	2000 02 13	704	0.8-	0.2-	2000 03 27	699	0.1+	0.4-
1998 10 17	327	0.6+	1.0+	2000 02 13	704	0.5-	0.1-	2000 03 27	699	0.0	0.1-
1998 10 17	327	0.5+	1.3+	2000 02 13	704	0.1+	0.0	2000 03 27	699	0.4-	0.4+
1998 10 17	327	0.4+	0.2+	2000 02 13	704	0.7+	0.5+	2000 03 27	699	0.4-	0.3+

2000 CC₅₀ = 1979 OY₆ = 1994 AR₇ = 1996 NY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17731807	ω	278.59769	-0.78147296	+0.60979453		
<i>a</i>	3.1378635	Ω	299.08557	-0.49633178	-0.73585258		
<i>e</i>	0.1681739	<i>i</i>	8.69435	-0.37809361	-0.29440043		
<i>P</i>	5.56	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 07 24	675	1.2+	1.3+	1996 07 14	809	(0.7+	2.7+)	2000 02 06	704	0.2-	0.5-
1979 07 24	413	2.3-	0.3-	1996 07 16	809	0.3+	1.0+	2000 02 06	704	1.7+	0.7-
1979 07 25	675	0.1+	1.7+	1996 07 16	809	1.1-	1.3+	2000 03 08	704	0.2-	0.3+
1994 01 07	691	0.3+	0.4+	1996 07 16	809	1.7-	1.8+	2000 03 08	704	0.7+	0.5-
1994 01 07	691	0.3+	0.8+	2000 02 02	704	0.2+	0.0	2000 03 08	704	1.0-	1.6-
1994 01 07	691	0.5+	0.6+	2000 02 02	704	0.3+	1.5+	2000 03 08	704	0.4+	1.1-
1994 01 12	691	0.1+	1.2+	2000 02 02	704	0.0	1.2+	2000 03 11	699	0.5-	0.5+
1994 01 12	691	0.2-	0.7+	2000 02 02	704	0.4+	0.9+	2000 03 11	699	0.6-	0.7+
1994 01 12	691	0.9+	0.8+	2000 02 02	704	0.0	1.2+	2000 03 11	699	0.5-	0.7+
1996 07 14	809	0.2-	0.9+	2000 02 06	704	0.0	1.1+	2000 03 11	699	0.7-	0.5+
1996 07 14	809	(1.3-	2.7+)	2000 02 06	704	1.9+	0.9-				

2000 CL₅₂ = 1981 XH₁ = 1991 RK₁₉
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18102585	ω	34.69356	+0.27355964	+0.96079772		
<i>a</i>	3.0948693	Ω	251.21906	-0.89291654	+0.23624725		
<i>e</i>	0.1739306	<i>i</i>	2.72963	-0.35758240	+0.14510335		
<i>P</i>	5.44	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 12 04	511	0.1-	0.3+	1997 11 06	704	1.1-	0.6+	2000 03 09	608	0.5-	0.4-
1981 12 04	511	0.0	0.3+	1997 11 06	704	0.7-	0.4+	2000 03 09	608	0.0	0.6-
1991 09 14	675	0.7-	0.4-	1998 12 15	704	0.2-	1.9-	2000 03 09	608	0.1-	0.6-
1991 09 14	675	0.4-	0.6+	1998 12 15	704	(0.8+ 2.3-)		2000 03 11	699	0.8-	0.5+
1991 09 15	691	0.3-	0.7+	1998 12 15	704	(2.6- 2.6-)		2000 03 11	699	0.2-	0.4+
1991 09 15	691	0.2-	0.2+	1998 12 15	704	(3.5- 2.1-)		2000 03 11	699	0.4-	0.5+
1991 09 15	691	0.3-	0.4+	2000 02 02	704	0.0	0.1+	2000 03 11	699	0.7-	0.5+
1991 09 17	675	0.0	0.5+	2000 02 02	704	0.5+	0.2+	2000 03 13	704	0.7-	0.5-
1991 09 17	675	0.7+	0.8+	2000 02 02	704	0.6+	0.6+	2000 03 13	704	0.7+	0.1+
1997 10 29	704	0.4+	1.1-	2000 02 02	704	0.3+	0.3+	2000 03 13	704	0.1+	0.3+
1997 10 29	704	0.3+	0.2-	2000 02 02	704	0.3-	0.2+	2000 03 13	704	0.4+	0.0
1997 10 29	704	1.9+	0.1+	2000 02 06	704	0.7+	0.1-	2000 03 27	699	0.2+	0.3-
1997 10 29	704	0.2-	0.6+	2000 02 06	704	1.4+	0.7-	2000 03 27	699	0.2+	0.1+
1997 10 30	704	1.8+	0.5-	2000 02 06	704	0.0	0.1+	2000 03 27	699	0.6-	0.5+
1997 10 30	704	(2.4+ 0.5+)		2000 02 06	704	0.6-	0.9+	2000 03 27	699	0.0	0.6+
1997 10 30	704	0.4+	1.3+	2000 02 12	704	1.1+	0.5+	2000 04 04	699	0.2-	0.2+
1997 10 30	704	1.2+	1.3+	2000 02 12	704	0.5+	0.5+	2000 04 04	699	0.3-	0.2+
1997 10 31	704	0.4-	1.1-	2000 02 12	704	1.0+	1.4+	2000 04 04	699	0.5-	0.1+
1997 10 31	704	0.7-	0.9-	2000 02 12	704	0.7+	0.7+	2000 04 04	699	0.6-	0.4-
1997 10 31	704	0.7-	1.2-	2000 02 12	704	0.1+	0.6+	2000 04 05	704	0.3+	0.1+
1997 10 31	704	1.2-	1.7-	2000 03 03	704	0.1+	0.1-	2000 04 05	704	0.2-	0.1-
1997 10 31	704	(2.1- 2.3-)		2000 03 03	704	0.1+	0.1-	2000 04 05	704	0.3+	0.7-
1997 11 06	704	0.5-	0.6+	2000 03 03	704	0.1-	0.3-	2000 04 05	704	0.7-	0.9-
1997 11 06	704	0.3-	0.9+	2000 03 03	704	0.1+	0.1-	2000 04 05	704	0.2-	0.6-
1997 11 06	704	0.1-	0.1+	2000 03 03	704	0.2-	0.3-				

2000 CC₅₃ = 1998 RW₁
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23877444	ω	125.63449	-0.06137029	-0.99067792		
<i>a</i>	2.5732234	Ω	327.23832	+0.82763015	+0.01759961		
<i>e</i>	0.1355084	<i>i</i>	12.98768	+0.55790862	-0.13508333		
<i>P</i>	4.13	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	703	0.4+	0.3-	2000 02 02	704	0.0	1.9+	2000 03 09	608	0.6+	0.4-
1998 09 14	703	0.2-	0.0	2000 02 02	704	0.2-	0.8+	2000 03 11	699	0.6-	0.3+
1998 09 14	703	0.3+	0.0	2000 02 02	691	0.3-	0.8-	2000 03 11	699	0.3-	0.4-
1998 09 15	703	0.3+	0.1+	2000 02 02	691	0.3-	1.0-	2000 03 11	699	0.3+	0.3-
1998 09 15	703	1.4-	0.2-	2000 02 02	691	0.3-	0.8-	2000 03 11	699	0.7-	0.3+
1998 09 25	699	0.2+	0.2-	2000 02 06	704	0.3+	0.3-	2000 03 27	699	0.2+	0.2+
1998 09 25	699	1.4+	0.8+	2000 02 06	704	0.3+	0.6-	2000 03 27	699	0.6+	0.1-
1998 09 25	699	1.1-	0.3-	2000 02 06	704	0.5+	0.5-	2000 03 27	699	0.6-	0.2+
2000 02 02	704	1.2+	0.3+	2000 03 09	608	0.2+	0.5-	2000 03 27	699	0.2-	0.7+
2000 02 02	704	1.1-	1.3+	2000 03 09	608	0.3+	0.2-				

2000 CM₅₅ = 1995 UE₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28109706	ω	195.78955	+0.89705587	-0.44167155		
<i>a</i>	2.3079790	Ω	190.45783	+0.41372885	+0.85108407		
<i>e</i>	0.1152865	<i>i</i>	4.65516	+0.15530360	+0.28386994		
<i>P</i>	3.51	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 10 17	691	0.1+	0.0	2000 02 04	704	0.2+	0.5-	2000 02 06	704	0.5-	0.7+
1995 10 17	691	0.1-	0.1+	2000 02 04	704	0.6-	0.5-	2000 02 08	704	0.1-	0.4+
1995 10 17	691	0.2+	0.2+	2000 02 04	704	0.6+	0.5-	2000 02 08	704	0.1+	0.4-
1995 10 23	691	0.0	0.0	2000 02 06	704	0.5-	0.9-	2000 02 08	704	0.1-	0.3+
1995 10 23	691	0.1-	0.2-	2000 02 06	704	0.4-	0.1+	2000 02 08	704	1.5+	0.3-
2000 02 04	704	0.4+	0.3+	2000 02 06	704	0.5-	1.4+				

2000 CD₅₆ = 1998 VZ₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24200808	ω	23.74450	+0.98050773	+0.15649213		
<i>a</i>	2.5502503	Ω	326.56329	-0.19624866	+0.80939659		
<i>e</i>	0.1780839	<i>i</i>	12.45145	+0.00954238	+0.56602771		
<i>P</i>	4.07	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 08 29	704	0.3+	1.0-	1999 01 09	699	0.8-	1.2-	2000 02 29	704	0.7-	1.1-
1998 08 29	704	0.6+	0.6-	1999 01 09	699	0.7+	0.4-	2000 02 29	704	0.1+	0.6-
1998 08 29	704	0.1-	0.5+	1999 01 09	699	0.2-	0.1-	2000 02 29	704	0.1-	1.4-
1998 08 29	704	0.9-	0.7-	2000 02 04	704	0.4+	0.4+	2000 02 29	704	0.5-	0.6-
1998 08 29	704	0.7-	1.0-	2000 02 04	704	0.2+	0.3-	2000 02 29	704	0.2-	1.3-
1998 11 01	699	(2.4+ 1.0-)		2000 02 04	704	0.1+	1.6+	2000 03 03	704	0.2+	0.7-
1998 11 01	699	0.9+	0.1+	2000 02 04	704	0.3+	0.7+	2000 03 03	704	0.4+	0.1-
1998 11 01	699	0.8+	0.1-	2000 02 04	704	0.9+	1.1+	2000 03 03	704	0.4-	0.1+
1998 11 14	704	0.3+	0.8-	2000 02 06	704	0.6+	0.4+	2000 03 03	704	0.3+	0.8-
1998 11 14	704	0.7-	0.8+	2000 02 06	704	0.6+	0.5-	2000 03 05	704	0.4-	0.1+
1998 11 14	704	0.1-	0.3+	2000 02 06	704	0.2+	0.2-	2000 03 05	704	1.0-	0.1+
1998 11 14	704	1.0+	0.4-	2000 02 06	704	0.5+	0.2-	2000 03 05	704	0.0	0.3-
1998 11 14	704	0.6+	0.2-	2000 02 11	691	0.6-	0.0	2000 03 05	704	0.3+	0.1-
1998 11 15	699	0.1-	0.2+	2000 02 11	691	0.6-	0.1-	2000 03 05	704	0.1-	0.1+
1998 11 15	699	0.1+	0.7+	2000 02 11	691	0.4-	0.0	2000 03 08	608	0.3+	0.8-
1998 11 15	699	0.2+	0.9+	2000 02 11	704	0.2-	0.3+	2000 03 08	608	0.4+	0.5-
1998 11 16	704	0.1-	0.6+	2000 02 11	704	0.2-	1.0+	2000 03 08	608	0.2+	1.1-
1998 11 16	704	0.2-	0.2+	2000 02 11	704	0.3+	0.4+	2000 03 11	704	0.5-	0.0
1998 11 16	704	0.3+	0.2+	2000 02 11	704	0.3+	0.6+	2000 03 11	704	0.2-	0.1-
1998 11 16	704	0.0	0.3-	2000 02 11	704	0.3-	0.6+	2000 03 11	704	0.1+	0.1+
1998 11 16	704	1.7-	1.1-	2000 02 25	703	0.1+	0.4+	2000 03 11	704	0.4+	0.0
1998 12 24	699	0.3+	0.8+	2000 02 25	703	0.0	0.9+	2000 03 11	704	0.1+	0.5+
1998 12 24	699	0.7-	0.5+	2000 02 25	703	1.0-	0.1+				
1998 12 24	699	0.1-	0.6+	2000 02 25	703	0.2+	0.5+				

2000 CN₅₆ = 1996 TW₆₆ = 1999 CH₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17792851	ω	208.98125	-0.68488615	+0.72459041		
<i>a</i>	3.1306825	Ω	18.15730	-0.61197853	-0.51480169		
<i>e</i>	0.1719445	<i>i</i>	14.26927	-0.39549114	-0.45820079		
<i>P</i>	5.54	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 10 07	809	2.1-	2.0+	1999 02 10	704	0.0	0.7+	2000 02 11	704	0.6+	0.8+
1996 10 07	809	1.7-	2.8+	1999 02 10	704	0.2+	0.3+	2000 04 07	704	0.2+	0.1+
1996 10 07	809	1.5-	2.4+	1999 02 10	704	0.5-	0.0	2000 04 07	704	0.2+	0.4+
1996 10 08	809	(2.6-	4.6+)	1999 02 13	704	0.2+	0.0	2000 04 07	704	0.0	0.5+
1996 10 08	809	(2.2-	3.8+)	1999 02 13	704	0.5-	0.3+	2000 04 07	704	0.3+	0.1-
1996 10 08	809	(1.1-	3.9+)	1999 02 13	704	0.0	0.1-	2000 04 07	704	0.1-	0.2-
1999 01 14	704	0.0	0.3-	1999 02 13	704	0.6-	0.2+	2000 04 08	704	0.5+	0.1+
1999 01 14	704	0.9+	0.2-	1999 02 13	704	2.0-	0.7-	2000 04 08	704	0.0	0.3+
1999 01 14	704	0.1-	0.5+	2000 02 10	704	0.8+	0.1+	2000 04 08	704	0.3+	1.0+
1999 01 14	704	0.7+	0.5+	2000 02 10	704	0.3+	0.0	2000 04 08	704	0.3-	0.3+
1999 01 14	704	1.6+	1.0+	2000 02 10	704	0.8+	0.2-	2000 04 08	704	0.1-	1.3+
1999 02 10	704	0.3+	0.3-	2000 02 11	704	0.3+	0.9+				
1999 02 10	704	0.5+	0.6+	2000 02 11	704	1.4+	1.2+				

2000 APR. 18

M.P.C. 40103

2000 CD₅₈ = 1994 CL₈ = 1998 XX₉₅
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 276.99116 (2000.0)			Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18328186	ω	138.69524	−0.05868864	+0.98782662			
<i>a</i>	3.0694205	Ω	127.44080	−0.95692504	−0.01456396			
<i>e</i>	0.0589773	<i>i</i>	10.45388	−0.28434154	−0.15487565			
<i>P</i>	5.38	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1992 11 30	808	1.9+	1.6−	2000 01 08	704	0.1+	0.6−	2000 03 12	704	0.5+	0.3+
1992 11 30	808	1.7−	1.4+	2000 01 08	704	1.5+	0.2+	2000 03 12	704	0.0	0.4+
1994 02 08	303	0.1−	1.2+	2000 01 08	704	0.0	0.4−	2000 03 26	699	0.1+	0.1−
1994 02 08	303	0.2+	1.6+	2000 01 08	704	0.1−	0.4+	2000 03 26	699	0.2+	0.4+
1994 02 08	303	(2.2−	1.5+)	2000 01 08	704	0.0	0.7−	2000 03 26	699	0.1+	0.4+
1994 02 09	303	(2.4+	0.7−)	2000 01 08	704	0.1−	0.0	2000 03 26	699	0.0	0.2+
1998 12 15	704	0.7+	1.7−	2000 02 05	704	0.0	0.4−	2000 03 29	704	0.5−	0.2+
1998 12 15	704	0.5+	0.7+	2000 02 05	704	0.3+	0.2−	2000 03 29	704	0.5−	0.1−
1998 12 15	704	0.6−	1.4−	2000 02 05	704	0.0	0.4+	2000 03 29	704	0.2+	0.7+
1998 12 22	704	1.9−	0.5−	2000 02 05	704	1.0−	0.1+	2000 04 03	704	0.5+	0.2−
1998 12 22	704	0.1−	0.4+	2000 02 06	704	0.4+	0.0	2000 04 03	704	0.5+	0.1−
1998 12 22	704	(5.0−	0.2+)	2000 02 06	704	0.1−	0.1+	2000 04 03	704	0.7+	0.8−
1999 01 20	704	1.1+	0.6+	2000 02 06	704	0.1+	0.2+	2000 04 03	704	0.4−	0.4−
1999 01 20	704	0.5−	0.7+	2000 02 06	704	1.0−	0.4−	2000 04 03	704	0.5−	0.8−
1999 01 20	704	0.5−	0.1+	2000 02 06	704	0.1−	0.5+	2000 04 08	704	0.4−	0.1−
1999 01 20	704	0.4+	0.3−	2000 03 12	703	0.2+	0.1−	2000 04 08	704	0.0	0.1+
1999 01 20	704	0.8+	0.4−	2000 03 12	703	0.3−	0.4−	2000 04 08	704	0.0	0.2−
2000 01 08	704	0.4+	0.0	2000 03 12	703	0.0	0.0	2000 04 08	704	0.1+	0.1−
2000 01 08	704	0.0	0.2−	2000 03 12	703	0.0	0.1+	2000 04 08	704	1.0−	0.3−
2000 01 08	704	0.2+	0.6−	2000 03 12	704	0.0	0.1+				
2000 01 08	704	0.0	0.0	2000 03 12	704	0.1+	0.1+				

2000 CJ₅₈ = 1998 VT₁₂
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 317.28996 (2000.0)			Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.30344044	ω	169.80025	−0.70369569	+0.70361805			
<i>a</i>	2.1932447	Ω	55.39067	−0.66002509	−0.59596480			
<i>e</i>	0.0594968	<i>i</i>	6.88480	−0.26301948	−0.38697234			
<i>P</i>	3.25	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 10 20	699	0.2+	0.7+	2000 02 05	704	0.1+	0.1+	2000 03 29	704	0.2−	0.1+
1998 10 20	699	0.0	0.3+	2000 02 05	704	0.9+	0.3+	2000 03 29	704	0.3−	0.1−
1998 10 20	699	0.0	0.1+	2000 02 06	704	0.2+	0.3+	2000 03 29	704	0.0	0.0
1998 11 10	704	0.0	0.5−	2000 02 06	704	0.2−	0.9−	2000 03 29	704	0.1−	0.2+
1998 11 10	704	0.2−	0.4+	2000 02 06	704	0.9+	0.2+	2000 03 29	704	0.3−	0.2−
1998 11 10	704	0.4+	0.1−	2000 02 06	704	0.6+	0.4−	2000 04 05	704	0.4+	0.1+
1998 11 10	704	1.5−	1.5+	2000 03 11	699	0.2−	0.4−	2000 04 05	704	0.3+	0.3+
1998 11 10	704	1.3−	1.1+	2000 03 11	699	0.4−	0.1+	2000 04 05	704	0.3+	0.4+
1998 11 11	704	0.2+	0.7−	2000 03 11	699	0.5−	0.1+	2000 04 05	704	0.5+	0.3+
1998 11 11	704	0.1+	1.1+	2000 03 11	699	0.4−	0.0	2000 04 05	704	0.2−	0.6+
1998 11 11	704	0.6+	0.2−	2000 03 12	703	0.1+	0.3+	2000 04 08	704	0.1+	0.3+
1998 11 11	704	0.2−	0.4−	2000 03 12	703	0.1+	0.1−	2000 04 08	704	0.0	0.8+
1998 11 11	704	0.1−	0.9+	2000 03 12	703	0.2+	0.5−	2000 04 08	704	0.3+	0.3+
1999 01 06	699	0.2−	1.5−	2000 03 12	703	0.2+	0.2−	2000 04 08	704	0.2+	0.1−
1999 01 06	699	0.2+	1.1−	2000 03 15	699	0.1−	0.1−	2000 04 08	704	0.0	0.4+
1999 01 06	699	1.3+	0.7−	2000 03 15	699	0.1−	0.2−	2000 04 13	704	1.1−	1.0+
2000 02 05	704	0.4+	0.4−	2000 03 15	699	0.0	0.1−	2000 04 13	704	0.0	0.1−
2000 02 05	704	0.8−	0.4−	2000 03 15	699	0.0	0.5−	2000 04 13	704	0.6+	0.4−

2000 CL₅₈ = 1979 MT₅ = 1979 OF₈
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 31.76821 (2000.0)			Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22372829	ω	11.37265	−0.80781499	−0.56209947			
<i>a</i>	2.6873369	Ω	132.93074	+0.52000992	−0.82134243			
<i>e</i>	0.1230504	<i>i</i>	14.02370	+0.27753309	−0.09716377			
<i>P</i>	4.41	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1979 06 24	413	0.9+	0.1−	2000 01 08	704	0.2−	0.4−	2000 04 03	704	0.2−	0.0
1979 06 25	413	1.3−	0.2−	2000 02 05	704	0.2−	0.3+	2000 04 03	704	0.3−	0.4+
1979 06 29	413	0.4+	0.4+	2000 02 05	704	0.2+	0.6+	2000 04 03	704	0.0	0.4+
1979 07 24	413	2.2−	1.2−	2000 02 05	704	0.7−	0.5+	2000 04 03	704	0.2−	0.6+
1979 07 26	675	1.6+	1.0+	2000 02 05	704	0.0	0.5+	2000 04 03	704	0.4−	0.2+
1979 07 27	675	0.7+	1.7+	2000 02 06	704	0.2+	0.4−	2000 04 08	704	0.1+	0.8+
1998 11 13	704	1.0−	0.9+	2000 02 06	704	0.0	0.2−	2000 04 08	704	0.3+	0.2−
1998 11 13	704	0.2+	0.2−	2000 02 06	704	1.1+	1.1−	2000 04 08	704	0.0	0.3+
1998 11 13	704	0.7+	1.7+	2000 02 06	704	0.0	0.1+	2000 04 08	704	0.0	0.3−
1998 11 13	704	0.5−	0.6−	2000 02 06	704	0.2+	0.1−	2000 04 08	704	0.4+	0.1−
1998 11 13	704	(6.1−	1.3+)	2000 03 29	704	0.0	0.2−	2000 04 14	704	0.3+	0.1+
2000 01 08	704	0.9+	0.1+	2000 03 29	704	0.4+	0.0	2000 04 14	704	0.4−	0.2−
2000 01 08	704	0.7+	0.4+	2000 03 29	704	0.2+	0.1+	2000 04 14	704	0.3−	0.6+
2000 01 08	704	0.2+	0.3−	2000 03 29	704	0.1+	0.3−	2000 04 14	704	0.1−	0.3−
2000 01 08	704	0.3−	0.2+	2000 03 29	704	0.0	0.2−	2000 04 14	704	0.7−	0.1−

2000 CM₅₈ = 1998 VB₃₈
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 42.11841 (2000.0)			Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26272912	ω	68.94016	−0.72184460	−0.67335179			
<i>a</i>	2.4143334	Ω	68.34691	+0.55382192	−0.70051867			
<i>e</i>	0.0901857	<i>i</i>	9.90053	+0.41499597	−0.23637038			
<i>P</i>	3.75	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 11 10	704	0.1+	0.7+	2000 02 06	704	0.3−	0.8−	2000 04 05	704	0.0	0.1−
1998 11 10	704	0.0	0.3+	2000 02 06	704	1.1+	0.6−	2000 04 05	704	0.2−	0.0
1998 11 10	704	0.3−	0.2−	2000 02 06	704	0.1−	0.5−	2000 04 05	704	0.3−	0.1−
1998 11 10	704	0.7−	1.1+	2000 02 06	704	0.1−	0.8−	2000 04 08	704	0.3+	0.1+
1998 11 10	704	0.1+	0.5−	2000 03 02	703	0.4−	0.1+	2000 04 08	704	0.1+	0.1+
1998 11 11	704	0.4+	0.4−	2000 03 02	703	0.0	0.3+	2000 04 08	704	0.5−	0.0
1998 11 11	704	0.2−	0.4+	2000 03 02	703	0.3+	0.6−	2000 04 08	704	0.5−	0.1+
1998 11 11	704	0.3−	0.6+	2000 03 02	703	0.1−	0.2+	2000 04 08	704	0.3−	0.2−
1999 01 06	699	0.5+	1.5−	2000 03 08	704	0.1−	0.5−	2000 04 12	608	0.3−	0.0
1999 01 06	699	0.4−	0.5+	2000 03 08	704	0.2−	0.4−	2000 04 12	608	0.1−	0.1−
1999 01 06	699	0.3+	0.3+	2000 03 08	704	0.5+	0.2−	2000 04 12	608	0.2−	0.1−
2000 02 05	704	0.1−	0.2−	2000 03 08	704	0.1+	0.1+	2000 04 13	704	0.5+	1.9+
2000 02 05	704	0.3+	1.2+	2000 03 08	704	0.3−	0.9+	2000 04 13	704	1.5+	1.4+
2000 02 05	704	0.0	0.3−	2000 04 05	704	0.4−	0.2−	2000 04 13	704	0.9+	0.2+
2000 02 06	704	0.2−	0.3−	2000 04 05	704	0.2−	0.1+				

2000 CQ₅₈ = 1991 PP = 1999 BR₂₂
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

$\dot{M}$	90.65383		(2000.0)				P		Q	
n	0.17981477	ω	292.63353				+0.11936670		−0.98181370	
a	3.1087501	Ω	149.34612				+0.98360711		+0.09669913	
e	0.1550938	i	16.83087				+0.13516156		+0.16337422	
P	5.48	H	12.6			G	0.15		U	3

Residuals in seconds of arc

1991 08 05	675	0.1+	0.1+	1999 01 20	704	0.2+	0.2+	2000 03 11	699	0.5+	0.2−
1991 08 05	675	0.3−	0.1−	2000 01 10	699	0.4−	0.9+	2000 03 11	699	0.3+	0.4+
1991 08 08	675	0.8−	0.0	2000 01 10	699	1.5−	1.7+	2000 03 29	704	0.7−	0.1−
1991 08 08	675	1.0+	0.6+	2000 01 10	699	0.5+	0.7−	2000 03 29	704	0.1−	0.3+
1998 12 15	704	0.1−	1.2−	2000 02 05	704	0.2−	0.5−	2000 03 29	704	0.0	0.4+
1998 12 15	704	(0.4−	2.8−)	2000 02 05	704	0.6+	0.2−	2000 03 29	704	0.1+	0.3+

1998 12 15	704	0.6−	0.2+	2000 02 05	704	0.6−	0.1+	2000 03 29	704	0.4−	0.5+
1998 12 15	704	(7.8−	0.4−)	2000 02 06	704	1.9+	0.1+	2000 04 03	704	0.1+	0.1+
1998 12 22	704	0.3+	0.5−	2000 02 06	704	0.2+	0.1−	2000 04 03	704	0.1+	0.1+
1998 12 22	704	(0.3−	2.5+)	2000 02 06	704	0.2+	0.5−	2000 04 03	704	0.1−	0.2−
1998 12 22	704	0.5+	0.6+	2000 02 06	704	0.2+	0.3−	2000 04 03	704	0.1+	0.2+
1998 12 22	704	(2.7−	0.4+)	2000 03 06	608	0.4−	0.4−	2000 04 03	704	0.1−	0.4+
1999 01 18	704	0.6−	0.7−	2000 03 06	608	0.4−	0.3−	2000 04 08	704	0.6−	0.1+
1999 01 18	704	0.7+	0.1+	2000 03 06	608	0.2−	0.3−	2000 04 08	704	0.3−	0.4−
1999 01 18	704	0.9+	0.0	2000 03 07	704	0.5+	0.4−	2000 04 08	704	0.3−	0.5−
1999 01 18	704	0.1−	0.2+	2000 03 07	704	0.5+	0.2−	2000 04 08	704	0.3−	0.2−
1999 01 20	704	1.2−	0.1−	2000 03 07	704	0.2−	0.2+	2000 04 08	704	0.2+	0.2+
1999 01 20	704	0.7−	1.1+	2000 03 11	699	0.4+	0.2−				
1999 01 20	704	0.6+	0.4+	2000 03 11	699	0.4+	0.1+				

2000 CT₆₁ = 1979 ON₉ = 1998 XV₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	206.55661		(2000.0)	P	Q		
<i>n</i>	0.17315143	ω	116.94747	+0.73728705	+0.67419576		
<i>a</i>	3.1880026	Ω	200.75374	−0.65500059	+0.69769457		
<i>e</i>	0.0298819	<i>i</i>	7.00561	−0.16547519	+0.24224445		
<i>P</i>	5.69	<i>H</i>	12.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 07 24	413	0.2−	1.4−	2000 02 02	704	0.2+	0.1+	2000 03 11	699	0.0	0.1−
1979 07 26	675	1.7+	0.3−	2000 02 02	704	0.0	0.3−	2000 03 11	699	0.1−	0.1−
1979 07 28	413	1.0−	0.8−	2000 02 02	704	0.8+	0.4+	2000 04 04	699	0.7−	0.4−
1997 10 30	704	0.0	0.5+	2000 02 02	704	0.4−	0.0	2000 04 04	699	0.6−	0.0
1997 10 30	704	1.1+	0.6+	2000 02 02	704	0.2+	0.6+	2000 04 04	699	1.1−	0.1−
1997 10 30	704	1.0−	0.7+	2000 02 08	704	0.1+	0.0	2000 04 04	699	0.4−	0.4−
1997 10 30	704	0.4+	0.1−	2000 02 08	704	0.0	0.4−	2000 04 05	704	0.4+	0.9+
1997 10 30	704	0.9−	0.1−	2000 02 08	704	0.4+	0.3−	2000 04 05	704	0.7+	0.8−
1998 12 15	704	0.3+	0.4−	2000 02 08	704	0.6+	0.8−	2000 04 05	704	0.1−	1.1+
1998 12 15	704	0.3−	0.2+	2000 02 08	704	0.3+	1.1−	2000 04 05	704	0.1−	0.3+
1998 12 15	704	0.6−	0.1+	2000 03 08	704	0.0	0.3+	2000 04 08	704	0.2+	1.3−
1998 12 15	704	1.1+	1.6−	2000 03 08	704	0.6+	0.8+	2000 04 08	704	0.7−	1.3−
1998 12 15	704	1.9−	1.1−	2000 03 08	704	1.1+	0.6+	2000 04 08	704	0.9−	1.5+
1998 12 22	704	0.1−	0.5−	2000 03 08	704	0.0	0.1−	2000 04 08	704	0.1−	0.4−
1998 12 22	704	0.1+	0.0	2000 03 08	704	0.2+	0.7+	2000 04 08	704	0.5−	0.5+
1998 12 22	704	0.0	0.9−	2000 03 11	699	0.1+	0.3+				
1998 12 22	704	1.2+	1.2+	2000 03 11	699	0.5−	0.1−				

2000 CY₆₁ = 1969 OQ = 1990 ED

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	266.32531		(2000.0)	P	Q		
<i>n</i>	0.18472619	ω	351.31906	+0.30784196	+0.93779011		
<i>a</i>	3.0534003	Ω	296.47824	−0.86180333	+0.20333001		
<i>e</i>	0.2866126	<i>i</i>	10.33412	−0.40314804	+0.28143671		
<i>P</i>	5.34	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1969 07 17	095	0.3+	1.1−	1998 12 17	704	0.4−	2.0−	2000 02 08	704	0.8+	0.3−
1990 03 04	413	0.4+	1.7−	2000 01 11	699	0.1+	0.9+	2000 02 08	704	0.0	0.4−
1990 03 04	413	0.6−	0.1+	2000 01 11	699	0.2+	0.1+	2000 02 08	704	0.4−	0.8−
1990 03 07	413	0.0	0.5−	2000 01 11	699	0.5+	0.3−	2000 03 08	704	0.3+	0.0
1990 03 07	413	0.3+	0.1+	2000 02 02	704	0.5+	0.4+	2000 03 08	704	0.9+	0.3+
1997 11 26	704	0.9−	0.1+	2000 02 02	704	0.0	0.7+	2000 03 08	704	0.3+	0.3+
1997 11 26	704	0.9−	0.3+	2000 02 02	704	0.3−	0.0	2000 03 08	704	0.0	1.1+
1997 11 26	704	0.4+	0.4+	2000 02 02	704	0.2+	1.0+	2000 03 08	704	0.4−	0.4+
1997 12 30	566	0.0	0.1+	2000 02 02	704	0.2+	0.6+	2000 03 13	704	0.6−	0.5+
1997 12 30	566	0.5+	0.5−	2000 02 07	704	0.1−	0.5+	2000 03 13	704	0.5−	0.3−
1997 12 30	566	0.7+	0.0	2000 02 07	704	1.0−	0.1−	2000 03 13	704	(2.1+	0.4−)
1998 12 17	704	1.4−	0.2−	2000 02 07	704	1.4−	1.0−	2000 04 04	704	0.5+	0.2+
1998 12 17	704	1.4+	0.7−	2000 02 07	704	1.2−	0.1+	2000 04 04	704	0.6+	0.4+
1998 12 17	704	0.5−	0.8−	2000 02 08	704	0.3+	0.5−	2000 04 04	704	0.2+	0.4−
1998 12 17	704	(2.4−	1.7−)	2000 02 08	704	1.0+	0.8−	2000 04 04	704	(2.3+	1.6−)

2000 CE₆₂ = 1979 HC = 1991 PR₁ = 1998 XT₄₀

Id. G. V. Williams; 1991 PR₁ = 1994 CL₃ (*MPC* 23339) is invalid

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	270.45848		(2000.0)	P	Q		
<i>n</i>	0.18506198	ω	319.39596	−0.14777435	+0.98072667		
<i>a</i>	3.0497056	Ω	301.74165	−0.86404945	−0.19090291		
<i>e</i>	0.0607214	<i>i</i>	8.64435	−0.48122894	+0.04160868		
<i>P</i>	5.33	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 04 21	809	0.3+	0.7+	1998 12 17	704	1.0−	0.5+	2000 03 08	704	0.1+	1.1+
1979 04 21	809	0.5+	1.0+	1999 01 16	704	1.0+	0.5+	2000 03 08	704	0.2−	0.4+
1979 04 21	809	0.1−	0.6+	1999 01 16	704	0.8−	0.0	2000 03 10	608	0.6+	1.4−
1991 08 10	809	1.3−	0.4+	1999 01 16	704	0.2+	0.1−	2000 03 10	608	0.2+	1.4−
1991 08 10	809	0.5−	0.3+	1999 01 16	704	0.6+	0.2−	2000 03 10	608	1.1+	1.9−
1991 08 10	809	0.3−	0.4−	1999 01 16	704	1.0+	0.4+	2000 03 30	703	0.6−	0.1+
1991 08 11	809	0.5+	0.5−	2000 01 11	699	0.6−	1.1+	2000 03 30	703	0.1+	0.4+
1991 08 11	809	0.4+	1.3−	2000 01 11	699	0.7−	0.3+	2000 03 30	703	0.2−	0.6+
1991 08 11	809	(0.4+	2.2−)	2000 01 11	699	0.1+	1.2+	2000 03 30	703	0.5−	0.1+
1991 08 14	809	0.0	0.5+	2000 02 02	704	0.3+	0.4+	2000 04 04	699	0.4−	0.3+
1991 08 14	809	1.3+	0.4+	2000 02 02	704	0.2−	0.3+	2000 04 04	699	0.5−	0.4+
1991 08 14	809	1.1+	0.8+	2000 02 02	704	0.3+	0.7+	2000 04 04	699	0.5−	0.3+
1997 10 28	327	0.1−	0.0	2000 02 02	704	0.7+	0.5+	2000 04 04	699	0.3−	0.9+
1997 10 28	327	0.2−	0.1−	2000 02 02	704	0.2+	1.5+	2000 04 04	704	0.6+	0.3−
1997 10 28	327	0.8−	0.1−	2000 02 07	704	0.4−	0.5−	2000 04 04	704	0.1+	0.4+
1997 10 30	566	0.3−	0.0	2000 02 07	704	0.7−	0.6−	2000 04 04	704	0.2−	0.3+
1997 10 30	566	0.4−	0.2+	2000 02 07	704	0.6−	1.5−	2000 04 04	704	0.0	0.2+
1997 10 30	566	0.2−	0.1−	2000 02 07	704	1.2−	1.8−	2000 04 04	704	0.4−	0.6+
1998 12 14	704	0.9+	1.0−	2000 02 08	704	0.9+	0.6+	2000 04 07	608	0.0	1.0−
1998 12 14	704	0.6−	0.0	2000 02 08	704	0.2+	0.6−	2000 04 07	608	0.6+	0.2−
1998 12 14	704	0.2+	0.8+	2000 02 08	704	0.6+	0.3+	2000 04 07	608	0.7+	0.7−
1998 12 14	704	0.5−	0.6+	2000 02 08	704	0.2+	0.0	2000 04 11	608	0.3−	0.6−
1998 12 17	704	0.6+	0.6−	2000 02 08	704	0.2−	0.5−	2000 04 11	608	0.6−	0.8−
1998 12 17	704	0.2−	0.5+	2000 03 08	704	0.2+	0.2+	2000 04 11	608	0.6−	0.7−
1998 12 17	704	0.0	1.1−	2000 03 08	704	0.4+	0.7+				
1998 12 17	704	0.0	0.2−	2000 03 08	704	0.0	0.3−				

2000 CF₆₂ = 1996 JD₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.17166		(2000.0)	P	Q		
<i>n</i>	0.21566755	ω	72.13131	−0.23640090	+0.97158103		
<i>a</i>	2.7538874	Ω	184.24971	−0.94161957	−0.23213226		
<i>e</i>	0.1178798	<i>i</i>	9.34909	−0.23972320	−0.04631321		
<i>P</i>	4.57	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 10	691	0.1+	0.0	2000 02 02	704	0.1+	0.3+	2000 03 08	704	1.9+	0.9+
1996 05 10	691	0.1+	0.1−	2000 02 08	704	0.8−	0.7+	2000 03 11	699	0.2+	0.1+
1996 05 10	691	0.1+	0.3−	2000 02 08	704	0.6−	0.5−	2000 03 11	699	0.1+	0.5+
1996 05 17	691	0.4−	0.2+	2000 02 08	704	0.4−	0.2−	2000 03 11	699	0.2+	0.2−
1996 05 17	691	0.2−	0.3+	2000 03 05	608	0.1+	1.3−	2000 03 11	699	0.0	0.2+
1996 05 17	691	0.3+	0.0	2000 03 05	608	0.2−	1.3−	2000 04 04	699	0.4−	0.1−
2000 02 02	704	0.2−	0.4−	2000 03 05	608	0.2−	1.1−	2000 04 04	699	0.1+	0.3−
2000 02 02	704	0.2−	0.1+	2000 03 08	704	0.3+	0.0	2000 04 04	699	0.1−	0.0
2000 02 02	704	0.4+	0.4+	2000 03 08	704	0.4−	0.5+	2000 04 04	699	0.3+	0.3+
2000 02 02	704	0.3+	0.4+	2000 03 08	704	0.6−	1.1+				

2000 APR. 18

M.P.C. 40105

Residuals in seconds of arc

1989 10 02	071	0.4−	0.3+	1999 12 16	704	0.4−	0.4−	2000 03 08	704	0.4+	0.7+
1989 10 02	071	0.1−	1.0+	1999 12 16	704	0.3−	1.4−	2000 03 08	704	0.6−	0.5+
1996 03 16	566	0.2+	0.9−	2000 02 02	704	1.8+	0.0	2000 04 04	699	0.7−	1.1+
1996 03 16	566	0.3+	1.0−	2000 02 02	704	0.0	1.8+	2000 04 04	699	1.0−	0.8+
1996 03 16	566	0.1+	1.1−	2000 02 02	704	0.7+	0.2−	2000 04 04	699	0.0	0.7+
1998 11 21	683	0.5+	0.3+	2000 02 02	704	1.0+	0.3−	2000 04 04	699	0.6−	0.7+
1998 11 21	683	0.5+	0.0	2000 02 02	704	0.1−	0.9+	2000 04 05	704	0.6+	0.4+
1998 11 21	683	0.8+	0.3+	2000 02 07	704	1.8−	1.7−	2000 04 05	704	0.4+	0.0
1998 11 22	683	0.1+	0.9+	2000 02 07	704	0.5−	0.0	2000 04 05	704	0.3+	0.2+
1998 11 22	683	0.6−	1.2+	2000 02 07	704	1.5−	1.3−	2000 04 05	704	0.1+	0.2+
1998 11 22	683	0.2−	1.2+	2000 02 07	704	2.0−	1.1−	2000 04 05	704	0.3−	0.0
1998 12 19	704	0.7−	0.3−	2000 02 08	704	0.1−	0.2−	2000 04 07	608	0.4+	0.2+
1998 12 19	704	0.5+	1.8−	2000 02 08	704	0.4+	0.2+	2000 04 07	608	0.7+	0.2+
1998 12 19	704	0.5+	1.9−	2000 02 08	704	0.2+	0.3+	2000 04 07	608	0.9+	0.4+
1998 12 19	704	(0.1+ 2.3−)		2000 02 08	704	0.2+	0.3+	2000 04 11	608	0.1−	0.0
1998 12 19	704	(0.3+ 2.4−)		2000 02 08	704	0.3+	0.2+	2000 04 11	608	0.0	0.2−
1999 12 16	704	0.0	0.8+	2000 03 08	704	0.3+	0.3+	2000 04 11	608	0.0	0.0
1999 12 16	704	1.4−	0.6+	2000 03 08	704	0.3+	0.7+				
1999 12 16	704	0.7+	1.2−	2000 03 08	704	0.7+	0.5+				

2000 CD₆₃ = 1998 SR₉₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	6.40035	(2000.0)	P	Q	
<i>n</i>	0.27546101	ω	201.50291	−0.91220540	−0.40636138
<i>a</i>	2.3393541	Ω	314.40806	+0.38581739	−0.80879206
<i>e</i>	0.1224336	<i>i</i>	4.21105	+0.13793565	−0.42511862
<i>P</i>	3.58	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.7+	1.1−	2000 02 02	704	0.2+	1.2+	2000 03 06	608	0.3+	1.2−
1998 09 26	704	0.3+	0.1−	2000 02 08	704	0.4−	0.5+	2000 03 06	608	0.1+	1.2−
1998 09 26	704	(2.1− 1.7−)		2000 02 08	704	0.0	1.1−	2000 03 06	608	0.4+	1.2−
1998 09 26	704	1.6−	0.8+	2000 02 08	704	0.0	1.3−	2000 03 08	704	0.4−	0.4−
1998 09 27	704	(2.2+ 0.2−)		2000 02 27	703	0.9−	0.2−	2000 03 08	704	0.2−	0.5−
1998 09 27	704	0.5−	0.4+	2000 02 27	703	0.6−	0.4+	2000 03 08	704	0.0	0.2+
1998 09 27	704	1.0+	0.2+	2000 02 27	703	0.0	0.1+	2000 03 08	704	0.2−	0.2−
1998 09 27	704	(0.4+ 2.7+)		2000 02 27	703	0.5−	0.2+	2000 03 08	704	0.0	0.2−
2000 02 02	704	0.2−	0.3+	2000 02 29	704	0.3−	0.5−	2000 04 08	704	0.6+	1.1+
2000 02 02	704	0.4+	0.8+	2000 02 29	704	0.8−	0.2+	2000 04 08	704	0.3−	0.0
2000 02 02	704	1.0+	1.3+	2000 02 29	704	0.0	0.4+	2000 04 08	704	1.3+	0.3+
2000 02 02	704	0.5+	0.8+	2000 02 29	704	1.1+	0.7−	2000 04 08	704	0.6−	1.7+

2000 CF₇₀ = 1993 FZ₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	331.58152	(2000.0)	P	Q	
<i>n</i>	0.27736489	ω	265.39436	−0.95022520	+0.30797411
<i>a</i>	2.3286367	Ω	292.53700	−0.26177038	−0.87124867
<i>e</i>	0.1104662	<i>i</i>	2.92672	−0.16896252	−0.38220113
<i>P</i>	3.55	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1993 03 21	809	1.6−	0.1+	2000 02 07	704	0.5+	0.3−	2000 03 11	699	0.2+	0.1+
1993 03 22	809	0.9+	0.9−	2000 02 07	704	0.9−	0.4+	2000 03 11	699	0.2−	0.6−
1993 03 26	809	0.2+	0.3−	2000 02 07	704	1.6−	1.4+	2000 03 11	699	0.0	0.3−
2000 02 06	704	1.3+	0.3+	2000 03 08	704	0.0	0.2−	2000 03 11	699	0.1+	0.1−
2000 02 06	704	0.1+	0.7−	2000 03 08	704	0.2−	0.7−	2000 04 04	699	0.1+	0.1+
2000 02 06	704	0.0	0.1+	2000 03 08	704	0.6+	0.4+	2000 04 04	699	0.4+	0.5+
2000 02 07	704	0.2+	0.8−	2000 03 08	704	0.2−	0.4+	2000 04 04	699	0.0	0.3+
2000 02 07	704	0.4−	1.2−	2000 03 08	704	0.0	1.5+	2000 04 04	699	0.4+	0.4+

2000 CW₇₀ = 1998 VH₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	352.15749	(2000.0)	P	Q	
<i>n</i>	0.25923038	ω	254.47008	−0.99164906	−0.10515404
<i>a</i>	2.4360084	Ω	279.45023	+0.12659761	−0.90414475
<i>e</i>	0.1636175	<i>i</i>	4.34096	−0.02460050	−0.41408321
<i>P</i>	3.80	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1998 11 10	704	0.1+	0.1−	2000 02 02	704	1.6−	0.7−	2000 03 08	704	0.2−	0.0
1998 11 10	704	1.5+	0.4+	2000 02 07	704	1.0−	1.5−	2000 03 10	608	0.6−	0.9−
1998 11 10	704	0.5−	1.3−	2000 02 07	704	0.0	1.5−	2000 03 10	608	0.6−	0.7−
1998 11 10	704	0.3−	0.5+	2000 02 07	704	0.9−	1.3−	2000 03 10	608	0.8−	0.8−
1998 11 11	704	0.5−	1.1+	2000 02 07	704	0.6−	1.3−	2000 04 04	699	0.1−	0.5+
1998 11 11	704	0.7−	0.9+	2000 02 07	704	0.3−	1.0−	2000 04 04	699	0.4−	0.7+
1998 11 11	704	(2.2+ 0.1+)		2000 02 08	704	0.3+	0.4+	2000 04 04	699	0.2+	0.4+
1999 12 16	699	0.5+	1.2+	2000 02 08	704	0.3+	0.2+	2000 04 04	699	0.2−	0.6+
1999 12 16	699	0.5+	1.0+	2000 02 08	704	0.1+	0.7+	2000 04 04	704	0.7+	0.5−
1999 12 16	699	0.4−	1.5+	2000 02 08	704	0.4+	0.6+	2000 04 04	704	0.7+	1.2+
2000 02 02	704	0.4+	0.2−	2000 02 08	704	0.0	0.7+	2000 04 04	704	0.9+	1.3+
2000 02 02	704	0.2+	0.5−	2000 03 08	704	0.8+	0.1−	2000 04 04	704	0.0	0.4+
2000 02 02	704	1.2+	0.1−	2000 03 08	704	0.5+	0.5+	2000 04 04	704	0.1+	1.5+
2000 02 02	704	0.4+	0.1−	2000 03 08	704	0.2+	0.1+				

2000 CP₇₅ = 1998 QQ₅₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	33.77977	(2000.0)	P	Q	
<i>n</i>	0.21385825	ω	282.66313	−0.09919692	−0.99464803
<i>a</i>	2.7693980	Ω	172.83902	+0.97903327	−0.10275030
<i>e</i>	0.1644176	<i>i</i>	13.40557	+0.17791521	+0.01084752
<i>P</i>	4.61	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 08 30	691	0.2+	0.1−	2000 01 11	704	0.2+	0.7+	2000 02 10	704	0.2−	0.8−
1998 08 30	691	0.1+	0.3+	2000 01 11	704	0.2+	0.7+	2000 02 10	704	1.1+	0.1−
1998 08 30	691	0.2+	0.1−	2000 01 11	704	0.0	1.4−	2000 02 10	704	1.1−	0.4−
1998 08 31	691	0.0	0.0	2000 02 06	704	0.5+	0.6−	2000 02 11	704	1.3−	0.8+
1998 08 31	691	0.5−	0.1−	2000 02 06	704	0.7+	0.6+	2000 02 11	704	0.1−	0.1−
1998 08 31	691	0.1−	0.0	2000 02 06	704	0.7+	0.6+	2000 02 11	704	0.2−	1.5−
2000 01 11	704	0.9−	0.2−	2000 02 06	704	0.9+	1.2+	2000 02 11	704	0.4−	0.4+

2000 CQ₇₅ = 1951 CH₂ = 1986 AE₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams		
<i>M</i>	117.27931	(2000.0)	P	Q	
<i>n</i>	0.22444013	ω	296.44542	+0.52758010	−0.81832862
<i>a</i>	2.6816517	Ω	119.85077	+0.84252139	+0.46969106
<i>e</i>	0.2611734	<i>i</i>	15.24289	+0.10870581	+0.33125303
<i>P</i>	4.39	<i>H</i>	12.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1951 02 04	675	0.2+	0.1−	2000 02 10	704	0.7+	0.4+	2000 04 03	704	0.3+	0.2−
1951 02 04	675	0.2−	0.3−	2000 02 10	704	0.3+	0.4−	2000 04 03	704	0.2−	0.2−
1986 01 11	688	1.3−	1.3+	2000 02 10	704	0.2+	0.8+	2000 04 08	704	0.4−	0.0
1986 01 11	688	1.3+	1.5−	2000 02 11	704	0.1+	0.3+	2000 04 08	704	0.1−	0.1+
2000 01 08	699	0.2−	0.4+	2000 02 11	704	0.2−	0.3+	2000 04 08	704	0.2+	1.2−
2000 01 08	699	0.3−	1.4+	2000 02 11	704	0.1+	0.2+	2000 04 08	704	0.3+	0.3−
2000 01 08	699	0.2−	0.5+	2000 03 02	703	0.4−	0.5+	2000 04 08	704	0.2+	0.6−
2000 02 06	704	0.1+	0.0	2000 03 02	703	0.8−	0.5+	2000 04 14	704	0.7+	0.0
2000 02 06	704	0.1+	0.3−	2000 03 02	703	0.1+	0.0	2000 04 14	704	0.6−	0.5−
2000 02 06	704	0.2+	0.5+	2000 03 02	703	1.0−	0.5−	2000 04 14	704	0.7+	0.4+
2000 02 06	704	0.1+	0.4+	2000 04 03	704	0.1+	0.1−	2000 04 14	704	0.4−	0.2−
2000 02 06	704	0.2+	0.2+	2000 04 03	704	0.2−	0.2−	2000 04 14	704	0.4+	0.5−

2000 CU₈₀ = 1997 RB₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	303.37498		(2000.0)	P		Q	
<i>n</i>	0.25275501	ω	334.28264	-0.39771038	+0.91685342		
<i>a</i>	2.4774384	Ω	272.26588	-0.83568654	-0.37760886		
<i>e</i>	0.2118668	<i>i</i>	1.99192	-0.37875382	-0.12958147		
<i>P</i>	3.90	<i>H</i>	18.0	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 09 06	910	0.2-	0.5+	2000 02 10	809	0.8+	0.7-	2000 02 11	809	0.0	0.2-
1997 09 06	910	0.2+	0.1-	2000 02 10	809	0.3+	0.7+	2000 02 12	809	0.6+	0.1+
1997 09 06	910	0.0	0.4-	2000 02 10	809	0.4+	0.1-	2000 02 12	809	0.6+	0.6-
1997 09 06	910	(1.4+	4.4-)	2000 02 11	809	1.0-	0.2+	2000 02 12	809	0.4+	0.3+
1997 09 06	910	(1.1+	4.9-)	2000 02 11	809	1.1-	0.1+				
1997 09 06	910	(1.4+	5.1-)	2000 02 11	809	1.0-	0.1+				

2000 CP₈₅ = 1998 VO₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	227.17710		(2000.0)	P		Q	
<i>n</i>	0.30472053	ω	248.57444	+0.49671118	+0.86737984		
<i>a</i>	2.1870980	Ω	51.24489	-0.78111429	+0.46207662		
<i>e</i>	0.1688696	<i>i</i>	2.24143	-0.37833644	+0.18476312		
<i>P</i>	3.23	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 18	327	0.4-	0.1+	2000 02 04	704	0.6+	0.4+	2000 03 06	608	1.9-	1.8+
1998 10 18	327	0.3-	0.0	2000 02 04	704	0.9-	1.5-	2000 03 11	699	0.1-	0.0
1998 10 18	327	0.3-	0.3+	2000 02 04	704	0.4+	0.7-	2000 03 11	699	0.4-	0.7-
1998 10 19	699	0.7+	0.4-	2000 02 04	704	1.2-	0.3-	2000 03 11	699	0.3-	0.3+
1998 10 19	699	0.2+	0.5-	2000 02 11	704	0.0	0.1+	2000 03 11	699	0.4+	0.1-
1998 10 19	699	0.1-	0.4-	2000 02 11	704	0.5+	0.6-	2000 03 12	704	0.2+	0.1-
1998 11 10	704	0.4+	0.2+	2000 02 11	704	0.9-	0.3-	2000 03 12	704	0.2+	0.2+
1998 11 10	704	0.1+	0.4-	2000 02 11	704	1.2+	0.4+	2000 03 12	704	0.0	0.0
1998 11 10	704	0.3+	0.4+	2000 02 25	703	1.2+	0.3+	2000 03 12	704	0.2-	0.9-
1998 11 10	704	0.8-	0.6+	2000 02 25	703	0.6-	0.1-	2000 03 12	704	0.8+	0.4+
1998 11 11	704	0.7+	1.3-	2000 02 25	703	1.3+	0.3+	2000 03 12	704	0.8+	0.9-
1998 11 11	704	0.3+	0.3-	2000 02 25	703	0.2-	0.9-	2000 03 12	704	0.5+	0.7+
1998 11 11	704	1.2+	0.0	2000 03 05	704	0.1+	0.1-	2000 03 12	704	0.1+	0.3-
1998 11 11	704	0.2-	0.6+	2000 03 05	704	0.0	0.2+	2000 03 12	704	0.2-	0.4-
1998 11 11	704	0.1-	0.3-	2000 03 05	704	0.8+	0.2+	2000 03 12	704	0.6+	0.5-
1998 11 14	699	0.2-	0.6+	2000 03 05	704	0.2+	0.9+	2000 04 03	699	0.1-	0.7-
1998 11 14	699	0.2-	0.1+	2000 03 05	704	0.4+	0.9+	2000 04 03	699	1.0-	0.5+
1998 11 14	699	1.5-	0.9+	2000 03 06	608	0.7-	0.8+	2000 04 03	699	0.1-	0.4-
2000 02 04	704	0.7-	0.1-	2000 03 06	608	1.6-	1.1+	2000 04 03	699	0.7+	0.1-

2000 CC₈₉ = 1996 NZ₁ = 1998 UO₄₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	204.31626		(2000.0)	P		Q	
<i>n</i>	0.17383727	ω	224.50883	+0.87383409	+0.47389527		
<i>a</i>	3.1796120	Ω	106.91535	-0.40835468	+0.83674284		
<i>e</i>	0.1531214	<i>i</i>	6.52975	-0.26393266	+0.27438055		
<i>P</i>	5.67	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 07 15	566	0.1-	0.6-	1997 11 06	704	(7.4-	0.2+)	2000 02 26	703	0.6+	1.8-
1996 07 15	566	0.5-	0.4+	1997 11 06	704	(7.5-	0.2+)	2000 02 26	703	0.3+	1.0-
1996 07 15	566	0.4-	0.1+	1998 10 24	691	0.8+	0.6+	2000 03 02	703	1.0-	0.1+
1996 07 23	566	0.4+	0.1-	1998 10 24	691	0.1-	0.2+	2000 03 02	703	0.3+	0.5-
1996 07 23	566	0.3+	0.2-	1998 10 24	691	0.1-	0.1+	2000 03 02	703	1.0-	0.5-
1996 07 23	566	0.4+	0.1+	1998 10 27	691	0.3-	0.1-	2000 03 02	703	0.2-	0.6+
1997 10 29	704	1.0-	0.6+	1998 10 27	691	0.1-	0.2-	2000 03 12	704	0.3+	0.6+
1997 10 29	704	0.2-	0.6+	1998 10 27	691	0.2-	0.0	2000 03 12	704	0.3-	0.0
1997 10 29	704	1.4-	1.4+	2000 02 04	704	0.5+	0.0	2000 03 12	704	0.1+	0.3-
1997 10 29	704	1.0-	1.1+	2000 02 04	704	0.5-	0.8+	2000 03 12	704	0.2-	0.7-

1997 10 30	704	(1.8+	2.3-)	2000 02 04	704	0.5+	0.1+	2000 03 12	704	1.0+	0.7+
1997 10 30	704	(1.8+	2.7-)	2000 02 04	704	0.8-	0.3-	2000 04 08	704	0.3+	0.2-
1997 10 30	704	1.5+	1.6-	2000 02 11	704	0.2+	1.0+	2000 04 08	704	0.4-	0.3-
1997 10 30	704	1.4+	1.7-	2000 02 11	704	1.2+	0.8-	2000 04 08	704	0.4-	0.5-
1997 10 30	704	1.1+	1.5-	2000 02 11	704	0.2+	0.3+	2000 04 08	704	0.6-	0.4-
1997 11 06	704	(6.5-	0.3-)	2000 02 11	704	0.8-	1.2+	2000 04 08	704	0.0	0.0
1997 11 06	704	(6.9-	0.5+)	2000 02 26	703	0.0	1.2+				
1997 11 06	704	(7.0-	0.3-)	2000 02 26	703	0.3+	0.5-				

2000 CD₈₉ = 1990 SU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.94656		(2000.0)	P		Q	
<i>n</i>	0.26416670	ω	222.91697	-0.08650582	+0.99406546		
<i>a</i>	2.4055663	Ω	42.24741	-0.88541267	-0.04636318		
<i>e</i>	0.1121635	<i>i</i>	5.63005	-0.45668495	-0.09840897		
<i>P</i>	3.73	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 09 15	809	0.7+	0.3+	2000 02 04	704	0.9+	0.2-	2000 03 12	704	0.6-	0.2-
1990 09 15	809	0.2-	0.5+	2000 02 04	704	0.5+	0.4+	2000 03 12	704	0.3-	0.2-
1990 09 15	809	0.5+	0.1-	2000 02 04	704	0.4-	0.4-	2000 03 12	704	0.5-	0.6-
1990 09 22	809	0.0	0.8-	2000 02 04	704	0.3-	0.0	2000 04 03	704	0.1+	0.1+
1990 09 22	809	0.0	0.1-	2000 02 04	704	0.5+	1.0+	2000 04 03	704	0.1+	0.2-
1990 09 22	809	0.4-	1.0-	2000 02 11	704	0.1-	0.1-	2000 04 03	704	0.6+	0.1-
1990 09 25	809	0.3+	1.2+	2000 02 11	704	0.1-	0.2-	2000 04 03	704	0.3+	0.3+
1990 09 25	809	0.5-	0.6+	2000 02 11	704	0.3-	0.1+	2000 04 03	704	0.3+	0.4+
1990 09 25	809	0.7-	0.1+	2000 02 11	704	0.1-	0.8+	2000 04 08	704	0.5+	1.0-
1994 11 01	691	0.2+	0.2+	2000 02 11	704	0.3-	1.3+	2000 04 08	704	0.2+	0.4+
1994 11 01	691	0.2-	0.3-	2000 03 02	703	0.1+	0.2+	2000 04 08	704	0.5+	0.2+
1994 11 01	691	0.1+	0.2+	2000 03 02	703	0.3-	0.6+	2000 04 08	704	0.1+	0.4-
2000 01 08	704	0.4+	1.1-	2000 03 02	703	0.1-	0.4+	2000 04 08	704	0.1-	0.4-
2000 01 08	704	0.1-	0.1-	2000 03 02	703	0.9-	0.5-	2000 04 10	704	0.1+	0.1-
2000 01 08	704	0.7+	0.1-	2000 03 12	704	0.3+	0.7+	2000 04 10	704	0.4+	0.4+
2000 01 08	704	1.3-	0.8-	2000 03 12	704	(2.0-	2.9+)	2000 04 10	704	0.0	0.1+

2000 CE₉₂ = 1998 WB₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	34.40431		(2000.0)	P		Q	
<i>n</i>	0.17095204	ω	106.11140	-0.49536416	-0.86848706		
<i>a</i>	3.2152879	Ω	13.62878	+0.76386642	-0.44566806		
<i>e</i>	0.1380318	<i>i</i>	4.51844	+0.41366949	-0.21704888		
<i>P</i>	5.77	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 21	704	0.5-	1.4-	1998 12 14	704	(2.4-	0.4+)	2000 03 28	704	0.0	0.5+
1998 11 21	704	(0.0	2.5-)	2000 02 06	704	0.3+	0.6-	2000 03 28	704	0.2-	0.0
1998 11 21	704	0.0	1.5-	2000 02 06	704	0.1-	0.9-	2000 03 28	704	0.7-	0.1+
1998 11 21	704	0.7-	1.4-	2000 02 06	704	0.6-	0.6-	2000 04 02	699	0.2+	0.3+
1998 11 21	704	(3.7-	0.9+)	2000 02 11	704	0.1-	0.1-	2000 04 02	699	0.4-	0.4+
1998 11 24	704	1.1+	0.7+	2000 02 11	704	0.6-	0.2+	2000 04 02	699	0.0	0.4-
1998 11 24	704	0.6+	0.9+	2000 02 11	704	0.1+	0.5+	2000 04 02	699	1.0-	1.3-
1998 11 24	704	0.7+	0.4+	2000 02 11	704	0.4-	1.2+	2000 04 03	704	0.8+	0.5-
1998 11 24	704	0.2-	1.1+	2000 03 11	704	0.4+	0.1+	2000 04 03	704	0.5-	0.7+
1998 11 24	704	0.0	1.9+	2000 03 11	704	0.2+	0.1-	2000 04 03	704	0.0	0.4+
1998 12 14	704	0.5-	0.5-	2000 03 11	704	0.2+	0.1-	2000 04 03	704	0.4+	0.2+
1998 12 14	704	(2.2+	0.8-)	2000 03 11	704	0.7+	0.3+	2000 04 03	704	0.6+	0.1-
1998 12 14	704	1.1-	0.3-	2000 03 11	704	0.5+	0.1-				
1998 12 14	704	0.6+	0.3+	2000 03 28	704	0.0	0.1-				

2000 APR. 18

M.P.C. 40107

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	294.59199	(2000.0)	Williams	
<i>n</i>	0.30616921	ω	161.78052	P
<i>a</i>	2.1801935	Ω	83.42613	Q
<i>e</i>	0.1223054	i	3.24307	G
<i>P</i>	3.22	H	14.9	0.15
				U
				4

Residuals in seconds of arc

1997 04 11	809	0.5−	0.0	2000 02 06	704	0.3−	0.9+	2000 03 12	704	0.3−	0.1+
1997 04 11	809	0.2−	0.3+	2000 02 11	704	0.6+	0.5−	2000 04 03	704	0.6+	0.1+
1997 04 11	809	0.6−	1.1+	2000 02 11	704	0.2+	0.0	2000 04 03	704	0.3+	0.2−
1997 04 12	809	0.8+	0.2+	2000 02 11	704	0.8+	0.7+	2000 04 03	704	0.5+	0.2−
1997 04 12	809	0.4+	0.4−	2000 02 11	704	0.4+	0.2−	2000 04 03	704	0.2+	1.2−
1997 04 12	809	0.7+	0.3+	2000 02 26	703	0.6−	0.2+	2000 04 03	704	0.1+	1.6−
1999 12 05	704	0.6+	0.3+	2000 02 26	703	0.4−	0.6−	2000 04 08	704	0.1+	0.4−
1999 12 05	704	0.2+	0.2−	2000 02 26	703	0.5−	0.5−	2000 04 08	704	0.6−	0.1−
1999 12 05	704	0.3−	0.5+	2000 02 26	703	0.0	0.2−	2000 04 08	704	0.4−	0.2−
2000 01 10	699	1.1−	1.2+	2000 03 02	703	0.1−	0.4+	2000 04 08	704	0.0	0.0
2000 01 10	699	0.3+	0.7+	2000 03 02	703	0.6+	0.1−	2000 04 08	704	0.1−	0.2+
2000 01 10	699	0.7+	0.6+	2000 03 02	703	0.0	0.2+	2000 04 10	704	0.0	0.0
2000 02 06	704	0.1+	0.1+	2000 03 02	703	0.3−	1.2−	2000 04 10	704	0.2+	0.2+
2000 02 06	704	0.8−	0.9−	2000 03 12	704	0.6−	0.1+	2000 04 10	704	0.1−	0.7+
2000 02 06	704	0.9+	1.3+	2000 03 12	704	0.3−	0.4+				
2000 02 06	704	0.0	0.5−	2000 03 12	704	0.3−	0.3+				

2000 CY₉₂ = 1984 YW₁ = 1991 RM₈ = 1993 FS₄₀ = 1997 GC₄₅
 = 1997 HV₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.49071	(2000.0)	Williams	
<i>n</i>	0.27387526	ω	9.03820	P
<i>a</i>	2.3483754	Ω	30.17216	Q
<i>e</i>	0.2472277	i	5.37094	G
<i>P</i>	3.60	H	14.5	0.15
				U
				1

Residuals in seconds of arc

1984 12 23	095	(1.1−	4.1−)	1998 09 14	699	1.1+	0.2+	2000 02 26	703	0.1−	0.1+
1991 09 12	675	0.5+	0.7−	1998 09 14	699	0.8+	0.2−	2000 02 26	703	1.2−	0.3−
1991 09 12	675	0.5+	0.0	1998 09 14	699	0.2−	0.5−	2000 02 26	703	(2.5+	0.7−)
1991 09 14	675	0.0	0.2−	1998 10 17	699	0.3+	0.3+	2000 02 26	703	0.2−	0.0
1991 09 14	675	0.0	0.4−	1998 10 17	699	0.3−	0.5+	2000 03 02	703	0.1−	0.4+
1993 03 19	809	0.9−	0.5+	1998 10 17	699	0.3−	0.2+	2000 03 02	703	0.1+	0.6−
1993 03 20	809	0.3−	0.2+	1998 12 08	704	0.5−	0.3−	2000 03 02	703	0.4−	0.4+
1993 03 24	809	1.1+	0.3+	1998 12 08	704	1.0−	0.2−	2000 03 02	703	0.4+	0.2+
1997 04 02	704	0.0	0.3+	1998 12 08	704	0.8−	0.0	2000 03 08	608	0.4+	0.9−
1997 04 02	704	0.1+	0.3−	1998 12 08	704	0.4−	0.1+	2000 03 08	608	0.4+	1.3−
1997 04 30	704	0.6−	0.5+	1998 12 08	704	1.4−	0.2+	2000 03 08	608	0.4+	1.1−
1997 04 30	704	0.8−	1.0+	2000 01 08	704	0.1+	0.1+	2000 03 12	704	0.4+	0.3−
1997 04 30	704	0.1−	0.7−	2000 01 08	704	0.6−	1.0−	2000 03 12	704	0.3+	0.1−
1997 04 30	704	0.3−	0.1+	2000 01 08	704	0.6+	0.9+	2000 03 12	704	0.3+	0.5+
1997 04 30	704	2.0−	0.3−	2000 01 08	704	0.0	0.1−	2000 03 12	704	0.1−	0.7+
1997 05 01	704	1.4+	0.9−	2000 02 06	704	0.0	0.6+	2000 03 12	704	0.4+	0.2+
1997 05 01	704	0.2+	0.5−	2000 02 06	704	0.0	0.2+	2000 04 08	704	0.4+	0.3+
1997 05 01	704	(2.4−	0.1−)	2000 02 06	704	0.7+	0.3−	2000 04 08	704	0.3−	0.3+
1997 05 01	704	0.6−	0.0	2000 02 11	704	0.7−	0.6+	2000 04 08	704	0.4+	0.9+
1997 05 01	704	0.6+	0.7−	2000 02 11	704	0.7+	0.3+	2000 04 08	704	0.3+	0.9−
1998 07 31	699	0.9+	1.8+	2000 02 11	704	0.4−	0.6+	2000 04 08	704	0.3−	0.0
1998 07 31	699	0.0	0.8+	2000 02 11	704	0.0	0.4+				
1998 07 31	699	0.9−	0.2+	2000 02 11	704	0.2+	0.7+				

2000 CZ₉₂ = 1998 SU₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.43369	(2000.0)	Williams	
<i>n</i>	0.23625538	ω	356.28727	P
<i>a</i>	2.5914823	Ω	131.93613	Q
<i>e</i>	0.1225764	i	5.52923	G
<i>P</i>	4.17	H	14.8	0.15
				U
				3

Residuals in seconds of arc

1998 09 20	809	0.1+	0.9−	2000 02 11	704	0.3+	0.1+	2000 03 12	704	0.7+	0.8−
1998 09 20	809	1.2−	1.4−	2000 03 02	703	0.1+	0.0	2000 03 12	704	0.3−	1.0−
1998 09 20	809	1.1−	0.5−	2000 03 02	703	0.3−	1.5+	2000 03 12	704	0.1−	0.2−
1998 09 21	809	1.3+	0.4+	2000 03 02	703	0.5−	0.0	2000 03 12	704	0.7−	0.7−
1998 09 21	809	0.3+	1.1+	2000 03 02	703	0.6+	0.1−	2000 03 12	704	0.2−	1.1−
1998 09 21	809	0.6+	1.5+	2000 03 08	608	0.4+	0.2−	2000 03 28	704	0.1+	0.7+
2000 02 06	704	0.2−	0.5−	2000 03 08	608	0.2+	0.5−	2000 03 28	704	0.3+	0.5+
2000 02 06	704	0.3+	0.3+	2000 03 08	608	0.3+	0.5−	2000 03 28	704	0.0	0.8+
2000 02 06	704	0.1−	1.1+	2000 03 11	699	0.5−	0.1+	2000 04 08	704	0.0	0.5+
2000 02 11	704	0.2+	0.1+	2000 03 11	699	0.7−	0.2+	2000 04 08	704	0.2+	0.4+
2000 02 11	704	0.4−	0.4−	2000 03 11	699	0.7−	0.3+	2000 04 08	704	0.3+	0.7−
2000 02 11	704	0.8+	0.0	2000 03 11	699	0.2−	0.3−	2000 04 08	704	0.4+	0.6+

2000 CF₉₃ = 1983 RU₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.96803	(2000.0)	Williams	
<i>n</i>	0.21043837	ω	199.22611	P
<i>a</i>	2.7993214	Ω	154.96724	Q
<i>e</i>	0.1609863	i	9.84595	G
<i>P</i>	4.68	H	13.1	0.15
				U
				4

Residuals in seconds of arc

1983 09 02	688	(0.5+	3.4−)	2000 03 02	703	0.2−	0.6+	2000 04 05	704	0.3−	0.1−
1983 09 02	688	(0.0	3.0−)	2000 03 12	703	0.4+	0.3+	2000 04 05	704	0.3+	0.4+
1983 09 06	688	0.3−	1.3+	2000 03 12	703	0.5+	0.1−	2000 04 05	704	0.8−	1.2+
1983 09 06	688	(2.5+	4.2−)	2000 03 12	703	0.0	0.2+	2000 04 07	608	0.1+	0.4−
1997 09 02	566	0.2−	0.1−	2000 03 12	703	0.3+	0.5+	2000 04 07	608	0.3−	0.2−
1997 09 02	566	0.1−	0.0	2000 03 12	704	0.1−	0.6+	2000 04 07	608	0.2−	0.2+
1997 09 02	566	0.3+	0.1−	2000 03 12	704	0.2+	0.2+	2000 04 08	704	0.5−	0.5+
2000 02 06	704	0.3−	0.2+	2000 03 12	704	0.3+	0.5+	2000 04 08	704	0.4−	0.1+
2000 02 06	704	0.4−	0.1−	2000 03 12	704	0.2+	0.7+	2000 04 08	704	0.3+	0.0
2000 02 06	704	0.6−	0.1+	2000 03 12	704	0.8+	1.2+	2000 04 08	704	0.2+	0.7−
2000 02 11	704	0.5+	0.3−	2000 03 26	699	0.4−	0.1−	2000 04 08	704	0.3+	0.9+
2000 02 11	704	1.3+	0.6−	2000 03 26	699	0.2−	0.6−	2000 04 10	704	0.6−	0.6+
2000 02 11	704	0.7+	0.4+	2000 03 26	699	0.5−	0.6−	2000 04 10	704	0.8−	0.7−
2000 02 11	704	1.6+	0.4−	2000 03 26	699	0.8−	0.2−	2000 04 10	704	0.3+	0.3−
2000 02 11	704	1.1+	0.5+	2000 03 28	704	0.5−	0.1+	2000 04 10	704	0.1+	1.0−
2000 03 02	703	0.6+	0.7−	2000 03 28	704	0.4−	0.4−	2000 04 10	704	1.1−	1.4−
2000 03 02	703	0.6+	0.1+	2000 03 28	704	0.9−	0.0				
2000 03 02	703	0.3+	0.9−	2000 04 05	704	0.0	0.5+				

2000 CG₉₃ = 1998 QJ₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.13049	(2000.0)	Williams	
<i>n</i>	0.28828835	ω	279.49240	P
<i>a</i>	2.2694362	Ω	148.72971	Q
<i>e</i>	0.1665625	i	5.28078	G
<i>P</i>	3.42	H	14.9	0.15
				U
				3

Residuals in seconds of arc

1997 05 07	704	0.5+	0.5−	2000 02 11	704	0.7+	1.1+	2000 03 26	699	0.5−	0.3+
1997 05 07	704	0.6−	0.3−	2000 02 11	704	0.2+	0.2+	2000 03 26	699	0.4−	0.3+
1997 05 07	704	0.4−	0.5−	2000 02 27	703	0.7−	0.4−	2000 03 26	699	0.1−	0.6+
1997 05 07	704	0.0	0.6−	2000 02 27	703	0.5+	0.4−	2000 03 28	704	0.6+	0.8−
1997 05 07	704	0.1−	0.2−	2000 02 27	703	0.3+	0.6+	2000 03 28	704	0.5−	0.2−
1998 08 17	704	0.3−	0.6+	2000 02 27	703	0.0	0.0	2000 03 28	704	0.7−	0.2+

1998 08 17	704	0.8+	0.8+	2000 03 02	703	0.7+	0.2+	2000 04 02	699	0.2+	0.6-
1998 08 17	704	0.7+	0.2-	2000 03 02	703	0.2-	0.1+	2000 04 02	699	0.3-	0.2+
1998 08 17	704	0.3-	0.3-	2000 03 02	703	0.6-	0.0	2000 04 02	699	0.6-	0.2-
1998 08 17	704	1.4+	0.1+	2000 03 02	703	0.1+	0.6+	2000 04 02	699	0.2-	0.3+
1998 08 23	699	0.2-	0.2+	2000 03 06	608	(0.0	2.6-)	2000 04 05	704	0.4+	0.0
1998 08 23	704	0.3+	0.1-	2000 03 06	608	0.1+	0.5-	2000 04 05	704	0.3+	0.1-
1998 08 23	704	1.2-	0.7+	2000 03 06	608	0.1-	0.3-	2000 04 05	704	1.1+	0.4+
1998 08 23	699	0.2-	0.5+	2000 03 11	699	(0.3-	2.1-)	2000 04 08	704	0.1+	1.3+
1998 08 23	704	1.4-	0.7+	2000 03 11	699	0.8-	0.4-	2000 04 08	704	0.9+	0.4-
1998 08 23	699	0.1-	0.7+	2000 03 11	699	0.5-	0.3-	2000 04 08	704	0.7+	0.7+
1998 08 23	704	0.9-	1.1+	2000 03 11	699	1.0-	0.5-	2000 04 08	704	0.3+	0.8+
2000 02 06	704	0.3-	0.0	2000 03 12	704	0.1+	0.1+	2000 04 08	704	0.3+	0.4+
2000 02 06	704	0.1-	0.9+	2000 03 12	704	0.2+	0.3-	2000 04 10	704	0.2-	0.5+
2000 02 06	704	0.4+	1.5+	2000 03 12	704	0.2+	0.1+	2000 04 10	704	0.0	0.2-
2000 02 06	704	0.5-	0.6+	2000 03 12	704	0.3-	0.4-	2000 04 10	704	0.7+	0.2+
2000 02 11	704	1.5+	0.0	2000 03 12	704	0.2+	0.1-				
2000 02 11	704	0.7+	0.9+	2000 03 26	699	0.0	0.0				

2000 CS₉₃ = 1998 XY₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18769259	ω	97.53349	+0.96679017	-0.18183409		
<i>a</i>	3.0211431	Ω	273.06753	+0.09707200	+0.91130681		
<i>e</i>	0.0912755	<i>i</i>	10.36098	+0.23641870	+0.36939988		
<i>P</i>	5.25	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.1-	0.8-	2000 01 11	704	0.5-	0.0	2000 03 01	703	0.3-	0.7+
1998 12 14	704	0.5-	0.0	2000 01 11	704	0.1+	0.2-	2000 03 01	703	1.4+	0.5+
1998 12 14	704	0.8+	0.8+	2000 02 08	704	0.4-	0.5+	2000 03 05	608	0.2-	1.3-
1998 12 14	704	0.0	0.5+	2000 02 08	704	0.2-	0.2+	2000 03 05	608	0.3-	1.4-
1998 12 14	704	1.4-	0.5-	2000 02 08	704	0.1+	0.5+	2000 03 05	608	0.6-	1.6-
1998 12 17	704	0.0	0.2+	2000 02 08	704	0.7+	0.4-	2000 03 08	704	0.9-	0.2+
1998 12 17	704	0.6+	0.1-	2000 02 11	704	0.6+	0.9+	2000 03 08	704	0.4+	0.9+
1998 12 17	704	0.6+	0.2-	2000 02 11	704	0.2-	0.4-	2000 03 08	704	1.4+	0.7+
2000 01 11	704	1.5+	0.8-	2000 02 11	704	0.2+	0.1+	2000 03 08	704	0.4-	0.5+
2000 01 11	704	0.3-	0.4+	2000 02 11	704	0.5+	0.8+	2000 03 08	704	1.2+	0.6+
2000 01 11	704	0.9-	0.2+	2000 03 01	706	0.3-	0.4-	2000 03 27	699	0.4-	0.6-
2000 01 11	704	0.6-	0.4+	2000 03 01	706	(2.9+	4.3-)	2000 03 27	699	0.5-	0.7-
2000 01 11	704	0.2+	0.5-	2000 03 01	703	0.3-	0.5+	2000 03 27	699	1.2-	0.5-
2000 01 11	704	0.4-	0.6-	2000 03 01	703	0.5+	0.7+	2000 03 27	699	(2.2-	0.2-)

2000 CO₉₄ = 1994 BT₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18427551	ω	22.57116	-0.99837609	+0.03298897		
<i>a</i>	3.0583767	Ω	159.15817	-0.04480155	-0.95823586		
<i>e</i>	0.0717952	<i>i</i>	7.50043	+0.03518517	-0.28407001		
<i>P</i>	5.35	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 01 16	010	0.6+	0.8-	2000 03 08	704	(2.2+	0.3-)	2000 04 05	704	0.4+	0.3+
1994 01 16	010	0.1+	0.1-	2000 03 08	704	0.6+	0.6-	2000 04 05	704	0.1-	0.3-
1994 01 17	010	0.8-	0.4-	2000 03 08	704	0.6+	1.8+	2000 04 05	704	0.2-	0.1+
1994 01 17	010	0.2-	1.9-	2000 03 08	704	0.9-	0.4+	2000 04 05	704	0.1+	0.4-
1994 01 17	010	(0.7-	2.9-)	2000 03 12	704	0.2-	0.0	2000 04 05	704	0.1+	0.3-
1998 12 15	704	0.6+	0.7+	2000 03 12	704	0.4-	0.2-	2000 04 07	699	1.0-	0.0
1998 12 15	704	1.6-	0.7+	2000 03 12	704	0.6-	0.4-	2000 04 07	699	0.3-	0.1+
1998 12 15	704	0.6+	0.6+	2000 03 12	704	0.8-	1.0-	2000 04 07	699	0.4-	0.7-
1998 12 15	704	0.2-	0.5+	2000 03 14	703	0.6-	0.3+	2000 04 07	699	0.8-	0.4-
1998 12 15	704	0.4+	0.5+	2000 03 14	703	1.0+	0.5-	2000 04 08	704	0.1-	0.3-
2000 02 08	704	0.5+	0.6-	2000 03 14	703	0.2-	0.2-	2000 04 08	704	0.0	0.3+
2000 02 08	704	0.6+	0.1-	2000 03 14	703	0.6-	0.7-	2000 04 08	704	0.6-	0.4+
2000 02 08	704	1.2+	0.1-	2000 03 26	699	0.0	0.0	2000 04 08	704	1.0-	0.8+
2000 02 08	704	0.5-	0.7-	2000 03 26	699	0.1+	0.0	2000 04 08	704	0.6-	0.5+
2000 02 08	704	0.4-	0.4+	2000 03 26	699	0.2-	0.5+	2000 04 10	704	0.3+	0.2+

2000 02 11	704	0.6+	0.1+	2000 03 26	699	0.4+	0.2+	2000 04 10	704	0.2+	0.1-
2000 02 11	704	0.5+	0.7+	2000 03 29	704	0.5+	0.1+	2000 04 10	704	1.2+	0.3+
2000 02 11	704	1.0+	0.3-	2000 03 29	704	0.0	0.0	2000 04 10	704	0.7+	0.8+
2000 02 11	704	0.2+	0.3+	2000 03 29	704	0.2-	0.2-				
2000 02 11	704	(1.9+	2.1+)	2000 03 29	704	0.4+	0.1+				

2000 CQ₉₄ = 1981 AO₃ = 1998 XE₇₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21667553	ω	342.03900	+0.96557534	-0.25587122		
<i>a</i>	2.7453400	Ω	32.90034	+0.24798628	+0.85110933		
<i>e</i>	0.1167161	<i>i</i>	4.94715	+0.07853065	+0.45841337		
<i>P</i>	4.55	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1981 01 08	381	1.5-	0.8-	2000 02 08	704	0.2+	0.6+	2000 03 29	704	0.1+	0.3-
1981 01 08	381	1.3+	0.1-	2000 02 08	704	0.1+	0.1+	2000 03 29	704	0.2-	0.2+
1998 12 14	704	0.0	0.3-	2000 02 11	704	0.8+	0.1-	2000 03 29	704	0.3+	0.1-
1998 12 14	704	0.2+	0.1-	2000 02 11	704	0.2+	0.7+	2000 03 29	704	0.0	0.1+
1998 12 14	704	0.5-	0.4-	2000 02 11	704	0.9-	0.7+	2000 04 04	704	0.5+	1.3+
1998 12 14	704	1.5+	1.0+	2000 02 11	704	0.2-	1.3-	2000 04 04	704	0.1+	0.4-
1998 12 14	704	(1.0+	2.2+)	2000 02 27	703	0.1-	0.2-	2000 04 04	704	0.4+	0.3-
1998 12 17	704	0.1-	0.9+	2000 02 27	703	0.2-	0.2+	2000 04 04	704	0.1+	0.1-
1998 12 17	704	(2.5+	0.2-)	2000 02 27	703	0.4-	1.0+	2000 04 04	704	0.3+	0.6+
1998 12 17	704	0.7-	0.0	2000 02 27	703	0.1-	0.2+	2000 04 07	699	0.6+	0.7-
1998 12 17	704	1.4+	0.2-	2000 03 12	704	0.1+	0.5-	2000 04 07	699	0.1-	1.6-
1999 01 16	704	0.2+	0.0	2000 03 12	704	0.4-	0.1-	2000 04 07	699	0.4-	0.1-
1999 01 16	704	1.0-	0.6-	2000 03 12	704	0.2+	0.2+	2000 04 07	699	0.9-	0.6-
1999 01 16	704	0.8+	1.1+	2000 03 12	704	0.2+	0.2+	2000 04 08	704	0.1+	0.3-
1999 01 16	704	1.8-	0.9-	2000 03 14	703	0.3-	0.6-	2000 04 08	704	0.2-	0.3+
2000 02 08	704	0.4+	0.2+	2000 03 14	703	1.0-	0.3+	2000 04 08	704	0.1+	0.2+
2000 02 08	704	0.2+	0.1-	2000 03 14	703	0.0	0.1-	2000 04 08	704	0.6-	0.2-
2000 02 08	704	1.7+	0.9+	2000 03 14	703	0.1-	0.1-	2000 04 08	704	0.1+	0.1+

2000 CY₉₄ = 1979 HQ₁ = 1993 FC₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28254528	ω	144.11451	-0.80495072	+0.58996907		
<i>a</i>	2.3000857	Ω	72.16105	-0.55868276	-0.71776705		
<i>e</i>	0.1473480	<i>i</i>	3.80516	-0.19981971	-0.36979313		
<i>P</i>	3.49	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 04 20	095	0.7-	0.1+	2000 02 08	704	0.0	0.0	2000 04 04	704	0.2+	0.6+
1993 03 17	809	0.0	0.0	2000 02 11	704	0.4+	0.9+	2000 04 04	704	0.4-	0.4+
1993 03 18	809	0.5+	1.4-	2000 02 11	704	0.4-	0.3-	2000 04 04	704	0.2-	0.7+
1993 03 23	809	0.5+	0.4-	2000 02 11	704	1.1+	0.6-	2000 04 04	704	(2.8-	2.2+)
1997 08 02	566	0.0	1.3+	2000 03 01	703	0.3-	0.4+	2000 04 06	704	0.2+	0.4+
1997 08 02	566	(0.8-	2.1+)	2000 03 01	703	0.2-	0.1+	2000 04 06	704	0.1+	0.3+
1997 08 02	566	0.4-	1.5+	2000 03 01	703	0.2-	0.4+	2000 04 06	704	0.5+	0.7-
1998 10 18	699	0.4-	0.8+	2000 03 01	703	0.0	0.2-	2000 04 06	704	0.2-	0.1+
1998 10 18	699	0.1+	1.0+	2000 03 08	704	1.3+	1.2-	2000 04 06	704	0.2+	1.0+
1998 10 18	699	0.2-	0.2-	2000 03 08	704	0.4+	0.2+	2000 04 07	704	0.1+	0.3+
1998 11 10	704	0.1+	0.6-	2000 03 08	704	0.5+	0.3+	2000 04 07	704	0.2+	0.1+
1998 11 10	704	1.3-	1.0+	2000 03 08	704	0.3+	0.4+	2000 04 07	704	0.3+	0.4+
1998 11 10	704	1.1-	0.4+	2000 03 08	704	1.1-	1.0+	2000 04 07	704	0.2+	0.6+
1998 11 10	704	1.2+	0.9+	2000 03 29	704	0.0	0.3+	2000 04 07	704	0.3+	0.4+
1998 11 14	691	0.3+	0.2-	2000 03 29	704	0.1+	0.2+	2000 04 10	704	0.0	0.3+
1998 11 14	691	(3.1-	1.4+)	2000 03 29	704	0.0	0.0	2000 04 10	704	0.0	0.0
1998 11 14	691	0.5+	0.2-	2000 03 29	704	0.3+	0.2+	2000 04 10	704	0.1-	0.1-
2000 01 13	699	0.8+	1.0+	2000 03 29	704	0.1-	0.2-	2000 04 10	704	0.4-	0.3-
2000 01 13	699	0.1-	0.4+	2000 04 02	699	0.2-	0.2+	2000 04 10	704	0.4-	0.2-
2000 01 13	699	0.2-	0.9+	2000 04 02	699	0.2-	0.1+	2000 04 15	608	0.6-	1.3-
2000 02 08	704	0.2+	0.0	2000 04 02	699	0.3-	0.1+	2000 04 15	608	0.3-	1.3-
2000 02 08	704	0.4-	0.0	2000 04 02	699	0.2-	0.4+	2000 04 15	608	0.1-	1.3-

2000 APR. 18

M.P.C. 40109

2000 CA₉₅ = 1977 KG = 1992 EK₃₀ = 1999 BQ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.56991		(2000.0)		P		Q
<i>n</i>	0.25471655	ω	213.34370	+0.11180858			+0.99226589
<i>a</i>	2.4647031	Ω	63.12757	-0.89800344			+0.12412453
<i>e</i>	0.1549620	<i>i</i>	3.46542	-0.42554514			-0.00122293
<i>P</i>	3.87	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 05 23	095	0.2+	0.5+	2000 02 11	704	1.4+	0.5-	2000 04 07	704	0.8+	0.5+
1992 03 03	809	(3.7-	0.4-)	2000 03 09	704	0.8+	0.0	2000 04 07	704	0.8+	0.5+
1992 03 07	809	0.6-	0.9-	2000 03 09	704	0.4+	0.2+	2000 04 08	704	0.0	0.2+
1999 01 16	704	0.1+	0.3+	2000 03 09	704	0.6+	0.7+	2000 04 08	704	0.5-	0.2-
1999 01 16	704	1.2-	1.2+	2000 03 09	704	0.3-	0.9+	2000 04 08	704	0.6-	0.6-
1999 01 16	704	0.2-	0.4-	2000 03 09	704	0.9-	1.4+	2000 04 08	704	1.0-	0.4-
1999 01 18	704	1.1+	0.3+	2000 03 29	704	0.1-	0.4-	2000 04 08	704	0.9-	0.9-
1999 01 18	704	1.1+	0.0	2000 03 29	704	0.3-	0.2-	2000 04 10	704	0.1-	0.1-
1999 01 18	704	0.8-	0.5-	2000 03 29	704	0.3-	0.1-	2000 04 10	704	0.1-	0.2-
2000 02 08	704	0.0	0.5-	2000 03 29	704	0.2-	0.3+	2000 04 10	704	0.0	0.5-
2000 02 08	704	0.1+	0.1-	2000 03 29	704	0.1-	0.1+	2000 04 10	704	0.5-	0.1-
2000 02 08	704	0.2+	0.1-	2000 04 07	704	0.9+	0.1-	2000 04 10	704	0.3-	0.2-
2000 02 11	704	0.8-	0.1-	2000 04 07	704	0.6+	0.7+				
2000 02 11	704	0.4+	0.5-	2000 04 07	704	0.9+	0.4+				

2000 CC₉₅ = 1987 GN

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	311.17283		(2000.0)		P		Q
<i>n</i>	0.23319646	ω	76.65738	-0.43835990			+0.89680440
<i>a</i>	2.6140953	Ω	166.84534	-0.89229452			-0.42622388
<i>e</i>	0.0512583	<i>i</i>	15.24816	-0.10794023			-0.11863841
<i>P</i>	4.23	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 04 01	675	1.9-	0.3+	2000 03 08	704	0.4+	0.3+	2000 04 08	704	0.2-	0.0
1987 04 01	675	0.3+	2.1-	2000 03 08	704	0.1-	0.2-	2000 04 08	704	0.1-	0.3+
1987 04 03	675	0.4-	1.3+	2000 03 08	704	0.4+	0.5+	2000 04 08	704	0.0	0.4+
1987 04 03	675	1.9+	0.8-	2000 03 08	704	0.1+	0.4+	2000 04 08	704	0.3-	0.1+
1999 02 04	704	1.0+	0.7-	2000 03 08	704	0.2+	0.0	2000 04 08	704	0.2-	0.4+
1999 02 04	704	0.1+	0.6+	2000 04 04	699	0.2-	0.1+	2000 04 12	608	0.2+	0.2-
1999 02 04	704	1.2-	0.8+	2000 04 04	699	0.3-	0.3+	2000 04 12	608	0.0	0.3-
1999 02 04	704	(3.7-	0.2+)	2000 04 04	699	0.6-	0.1+	2000 04 12	608	0.1+	0.1-
2000 02 08	704	0.3-	0.1-	2000 04 04	699	0.5-	0.1+	2000 04 13	704	0.4+	0.2+
2000 02 08	704	0.0	0.9+	2000 04 05	704	0.2+	0.2+	2000 04 13	704	0.1+	0.2-
2000 02 08	704	0.4+	0.1+	2000 04 05	704	0.0	0.1-	2000 04 13	704	0.2+	0.2-
2000 02 11	704	0.3+	0.7-	2000 04 05	704	0.2+	0.3-	2000 04 13	704	0.1-	0.4-
2000 02 11	704	0.0	0.3-	2000 04 05	704	0.1-	0.2-	2000 04 13	704	0.3+	0.0
2000 02 11	704	0.3-	0.4-	2000 04 05	704	0.0	0.4+				

2000 CG₉₅ = 1996 AC₅ = 1998 XP₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	289.85863		(2000.0)		P		Q
<i>n</i>	0.29339699	ω	184.51059	+0.18399466			+0.97659604
<i>a</i>	2.2430155	Ω	96.12062	-0.89827758			+0.21307110
<i>e</i>	0.1731939	<i>i</i>	6.43185	-0.39905308			-0.02934080
<i>P</i>	3.36	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 01 12	691	0.1-	0.5+	1998 12 22	704	1.2+	0.4-	2000 04 08	704	1.1-	0.1-
1996 01 12	691	0.1+	0.5+	1998 12 22	704	0.4-	1.3-	2000 04 09	699	0.3-	0.4+
1996 01 12	691	0.2-	0.7+	2000 02 08	704	0.7+	0.3-	2000 04 09	699	0.2-	0.0
1996 01 18	691	0.1+	0.4+	2000 02 08	704	0.6+	0.7-	2000 04 09	699	0.7-	0.2-
1996 01 18	691	0.2+	0.4+	2000 02 08	704	0.4+	0.3+	2000 04 09	699	0.2-	0.1+
1996 01 18	691	0.1+	0.4+	2000 02 11	704	1.1+	0.3+	2000 04 11	608	0.4-	1.3-
1997 08 01	566	0.1-	0.6+	2000 02 11	704	0.7-	0.8+	2000 04 11	608	0.2-	1.8-
1997 08 01	566	0.2-	0.6+	2000 02 11	704	0.1+	1.0+	2000 04 11	608	0.1-	1.3-

1997 08 01	566	0.2+	0.2+	2000 04 04	704	0.1-	0.1+	2000 04 13	704	0.2+	0.1+
1998 12 15	704	0.5-	0.3-	2000 04 04	704	0.3-	0.2+	2000 04 13	704	0.2+	0.2-
1998 12 15	704	(1.1+	2.4+)	2000 04 04	704	0.0	0.0	2000 04 13	704	1.7+	0.9+
1998 12 15	704	0.8+	0.8+	2000 04 04	704	0.1-	0.5+	2000 04 13	704	(1.0+	3.5+)
1998 12 22	704	(0.0	3.2-)	2000 04 04	704	0.2-	0.3+	2000 04 13	704	0.4+	0.9+
1998 12 22	704	0.7-	0.3-	2000 04 08	704	0.2-	0.1+				
1998 12 22	704	(0.1+	2.2-)	2000 04 08	704	0.1-	0.1-				

2000 CO₉₆ = 1978 NX₁ = 1991 XD₃ = 1993 OA₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	295.39115		(2000.0)		P		Q
<i>n</i>	0.26105808	ω	60.02952	-0.57229629			+0.81998479
<i>a</i>	2.4246252	Ω	175.02429	-0.78677539			-0.54556425
<i>e</i>	0.1250119	<i>i</i>	6.68360	-0.23121731			-0.17316059
<i>P</i>	3.78	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1978 07 06	095	0.1+	2.1+	1999 12 05	703	0.2+	1.0-	2000 02 12	704	0.2-	0.2+
1991 12 01	809	1.5+	1.8-	1999 12 14	704	0.8+	0.0	2000 02 12	704	0.1-	0.3+
1991 12 01	809	0.2+	0.6-	1999 12 14	704	0.1-	0.5+	2000 02 12	704	0.3-	0.6+
1991 12 01	809	0.0	0.4-	1999 12 14	704	0.5-	0.3+	2000 03 03	704	0.3+	0.4-
1991 12 09	809	0.9-	1.6-	1999 12 14	704	0.0	0.1-	2000 03 03	704	0.1+	0.2-
1991 12 09	809	(0.7-	2.2-)	2000 01 05	704	0.3-	1.7+	2000 03 03	704	0.1+	0.2-
1991 12 09	809	1.6-	1.7-	2000 01 05	704	0.4-	0.4-	2000 03 03	704	0.0	0.1-
1993 07 16	675	0.3-	1.2-	2000 01 05	704	0.6-	1.1+	2000 03 03	704	0.1+	0.2+
1993 07 16	675	0.1-	1.8-	2000 01 05	704	1.2+	0.5-	2000 03 11	704	0.4-	0.3-
1993 07 18	675	(2.4-	0.8-)	2000 02 02	704	0.0	0.3+	2000 03 11	704	0.7-	0.1-
1998 11 11	704	1.3-	0.6+	2000 02 02	704	0.1-	0.2+	2000 03 11	704	1.1-	0.1+
1998 11 11	704	0.2-	1.6+	2000 02 02	704	0.4+	0.6+	2000 03 11	704	1.2-	0.1-
1998 11 11	704	0.6-	0.4-	2000 02 02	704	(2.6+	1.4+)	2000 03 11	704	0.8-	0.6-
1998 12 11	699	0.1+	0.5+	2000 02 02	704	(0.3-	3.1+)	2000 04 03	704	0.3+	0.3-
1998 12 11	699	1.1+	0.0	2000 02 05	704	0.3+	0.3+	2000 04 03	704	0.7-	0.4-
1998 12 11	699	0.9+	0.4+	2000 02 05	704	0.1+	0.0	2000 04 03	704	0.1-	0.3-
1999 11 09	703	0.0	0.9+	2000 02 05	704	0.2+	0.8+	2000 04 03	704	0.1-	0.1-
1999 11 09	703	1.1+	0.4+	2000 02 06	704	0.3-	1.4-	2000 04 03	704	0.3-	0.4+
1999 11 09	703	0.5-	1.4+	2000 02 06	704	0.5+	0.3+	2000 04 08	704	0.7+	1.4-
1999 11 09	703	0.2-	0.4+	2000 02 06	704	0.5+	0.5+	2000 04 08	704	1.5+	0.1-
1999 12 05	703	0.1+	0.1+	2000 02 06	704	1.0+	1.0+	2000 04 08	704	1.3+	0.1+
1999 12 05	703	0.3+	0.2+	2000 02 12	704	0.0	0.6-	2000 04 08	704	0.2+	1.1+
1999 12 05	703	0.2-	0.3-	2000 02 12	704	0.1-	0.1-				

2000 CX₉₆ = 1997 TO₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	221.27412		(2000.0)		P		Q
<i>n</i>	0.22024453	ω	130.94590	+0.55600319			+0.83064471
<i>a</i>	2.7156010	Ω	172.65051	-0.81533640			+0.55202732
<i>e</i>	0.1789094	<i>i</i>	13.48497	-0.16151476			+0.07276819
<i>P</i>	4.48	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 03 19	691	0.0	0.3-	1998 12 19	704	1.3-	0.6-	2000 02 12	704	1.5-	0.1+
1996 03 19	691	0.2-	0.3-	1998 12 19	704	0.8-	0.8-	2000 02 12	704	0.0	0.4+
1996 03 19	691	(1.0-	4.4-)	1998 12 19	704	0.9+	0.3+	2000 03 13	704	0.9+	1.1+
1997 10 09	327	0.3-	0.7+	1998 12 19	704	1.3+	0.0	2000 03 13	704	0.4-	0.4+
1997 10 09	327	0.2-	0.7+	2000 02 02	704	0.1+	0.0	2000 03 13	704	0.4-	0.8+
1997 10 09	327	0.5-	0.4+	2000 02 02	704	0.2+	0.1-	2000 03 13	704	0.7-	0.3+
1997 10 09	327	0.1-	0.7+	2000 02 02	704	0.5+	0.2+	2000 04 03	704	0.7+	0.7-
1997 10 09	327	0.1-	0.4+	2000 02 02	704	0.1-	0.2+	2000 04 03	704	0.4+	0.1-
1997 10 09	327	0.2+	0.7+	2000 02 02	704	0.8+	0.7+	2000 04 03	704	0.1-	0

2000 CZ₉₆ = 1998 SA₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.31218062	ω	51.92079	+0.62642386	+0.77533636		
<i>a</i>	2.1521148	Ω	257.05793	−0.73847762	+0.55734491		
<i>e</i>	0.0756987	<i>i</i>	4.72561	−0.24948739	+0.29701884		
<i>P</i>	3.16	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 08 27	699	1.4+	0.3+	1998 09 27	704	1.5−	0.2−
1998 08 27	699	0.4−	1.5+	1998 09 27	704	1.3−	0.3+
1998 08 27	699	0.1+	0.1−	1998 09 29	704	1.2+	0.2−
1998 09 25	699	0.7+	0.1−	1998 09 29	704	0.4+	0.8+
1998 09 25	699	0.2+	0.3+	1998 09 29	704	0.8+	1.0+
1998 09 25	699	0.8+	0.2−	1998 09 29	704	0.4+	0.3+
1998 09 26	704	0.6+	0.8−	1998 09 29	704	0.9+	0.2+
1998 09 26	704	0.4−	0.9−	2000 02 08	704	0.7+	0.2+
1998 09 26	704	0.5−	0.4+	2000 02 08	704	1.3+	0.3−
1998 09 26	704	0.7−	0.5−	2000 02 08	704	0.7−	0.7−
1998 09 26	704	0.7−	0.8−	2000 02 12	704	0.4+	0.4−
1998 09 27	704	0.6+	1.0−	2000 02 12	704	1.1−	0.7−
1998 09 27	704	1.1−	0.3+	2000 02 12	704	1.2−	0.6+
1998 09 27	704	1.6−	0.4+	2000 02 12	704	0.0	1.0+

2000 CN₁₀₁ = 1988 XU₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.48739348	ω	118.29851	+0.52819600	+0.84893436		
<i>a</i>	1.5991268	Ω	183.73382	−0.84296379	+0.52171833		
<i>e</i>	0.6348723	<i>i</i>	15.92935	−0.10208348	+0.08438264		
<i>P</i>	2.02	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1984 03 07	413	0.5−	1.1+	2000 02 11	704	0.6+	0.4+
1984 03 07	413	0.5+	0.9−	2000 02 11	658	0.1−	1.0+
1988 12 08	675	0.2−	0.1+	2000 02 11	658	0.3+	0.1−
1988 12 08	675	0.2+	0.1−	2000 02 11	704	0.5+	0.7+
2000 02 08	704	1.0+	1.0+	2000 02 11	854	1.2−	1.1−
2000 02 08	704	0.1+	0.5−	2000 02 11	854	(2.6+	0.4−)
2000 02 08	704	0.7+	0.3+	2000 02 11	854	0.9−	0.8−
2000 02 08	704	0.9+	0.3+	2000 02 11	704	0.2+	0.2+
2000 02 08	704	0.3+	0.8+	2000 02 11	046	0.3−	0.4−
2000 02 10	704	0.2+	0.3−	2000 02 11	046	0.2−	0.1+
2000 02 10	704	0.3+	0.3−	2000 02 11	046	0.3+	0.0
2000 02 10	704	1.0−	0.5+	2000 02 11	046	1.6+	0.3+
2000 02 10	704	0.2+	0.2−	2000 02 11	046	0.0	0.4+
2000 02 11	118	0.1+	0.2−	2000 02 11	046	0.7+	0.5−
2000 02 11	118	0.1+	0.8+	2000 02 11	046	0.1+	0.2+
2000 02 11	118	0.4+	1.3+	2000 02 11	611	0.6+	1.0+
2000 02 11	704	0.8+	0.9+	2000 02 11	611	0.3+	0.7+
2000 02 11	704	0.6+	0.1+	2000 02 12	858	0.0	0.2+
2000 02 11	858	0.5+	0.1−	2000 02 12	858	0.7+	0.3+
2000 02 11	858	0.1+	0.4+	2000 02 12	858	0.3+	0.4+
2000 02 11	858	0.7+	0.1−	2000 02 12	711	0.4−	1.0−
2000 02 11	658	2.0+	0.9+	2000 02 12	711	1.2−	0.3+

2000 CY₁₀₁ = 1978 GK₄ = 1990 OF₅ = 1999 BT₂₃Id. G. V. Williams (*MPC* 39433, unpublished), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17867407	ω	23.93457	−0.86290176	+0.50519269		
<i>a</i>	3.1219674	Ω	186.45856	−0.48082401	−0.82889039		
<i>e</i>	0.1028341	<i>i</i>	6.86720	−0.15559183	−0.24025210		
<i>P</i>	5.52	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1978 04 11	095	0.4+	0.1−	1999 01 18	704	0.9−	0.1+
1990 07 27	675	0.4−	0.1+	1999 01 20	704	0.7−	0.1+
1990 07 27	675	0.4−	1.3+	1999 01 20	704	1.4−	0.4−
1990 07 29	675	0.5−	0.2+	1999 01 20	704	1.2−	0.0
1990 07 29	675	1.0−	0.1+	1999 01 20	704	1.2−	0.6+
1994 03 14	675	0.5+	0.3−	2000 02 02	704	0.4−	0.6+
1994 03 14	675	0.3+	1.1−	2000 02 02	704	0.5+	0.4+
1997 10 29	704	0.4+	1.3+	2000 02 02	704	0.3+	0.2+
1997 10 29	704	0.7+	0.6+	2000 02 10	704	0.8+	0.6+
1997 10 29	704	1.8+	0.4+	2000 02 10	704	0.0	0.3+
1997 10 29	704	1.9+	1.2+	2000 02 10	704	1.2+	1.5+
1997 10 29	704	1.3+	0.0	2000 02 12	621	0.1+	0.2+
1997 10 30	704	(3.1+	0.1−)	2000 02 12	621	0.3+	0.5+
1997 10 30	704	1.8+	0.8−	2000 02 12	621	0.0	0.1+
1997 10 30	704	(2.6+	1.1−)	2000 02 12	621	0.2+	0.5+
1997 10 30	704	(3.0+	0.7−)	2000 02 12	621	0.3+	0.0
1997 10 31	704	0.1−	0.3+	2000 02 12	621	0.3+	0.2+
1997 10 31	704	0.8−	1.1+	2000 02 12	621	0.2+	0.4+
1997 10 31	704	0.4−	1.1+	2000 02 12	621	0.2+	0.2+
1997 10 31	704	1.1+	1.1+	2000 02 26	621	1.1+	0.0
1997 10 31	704	0.3−	1.5+	2000 02 26	621	0.8+	0.1+
1997 11 03	704	0.3−	0.2−	2000 02 26	621	1.0+	0.2−
1997 11 03	704	0.8−	0.5+	2000 02 27	621	0.0	0.3+
1997 11 03	704	0.6−	0.7−	2000 02 27	621	0.2−	0.3+
1997 11 03	704	0.3−	1.1−	2000 03 14	703	0.8+	0.6+
1997 11 03	704	(2.1−	0.1−)	2000 03 14	703	0.5+	0.6−
1997 11 06	704	1.6−	0.4+	2000 03 14	703	0.4−	0.3+
1997 11 06	704	(2.0−	0.4+)	2000 03 14	703	0.2−	0.2+
1997 11 06	704	1.7−	1.0+	2000 04 03	621	1.0−	0.2−
1997 11 06	704	(2.2−	0.7+)	2000 04 03	621	0.1−	0.2+
1997 11 06	704	(2.9−	0.2+)	2000 04 03	621	0.1−	0.0
1999 01 18	704	(1.4−	2.4−)	2000 04 04	699	0.1−	0.3+
1999 01 18	704	1.0+	0.9−	2000 04 04	699	0.5−	0.2+

2000 DA = 1984 WR = 1998 VJ₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27588160	ω	288.43015	+0.98192137	+0.13020353		
<i>a</i>	2.3369758	Ω	64.28099	−0.05443342	+0.88941734		
<i>e</i>	0.1471483	<i>i</i>	8.77203	−0.18129377	+0.43815959		
<i>P</i>	3.57	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1984 11 18	688	2.2+	0.6−	1999 12 15	704	1.0+	0.9−
1984 11 18	688	0.7+	2.1−	1999 12 15	704	0.7+	0.3−
1984 11 20	010	1.4−	0.0	1999 12 17	699	0.7+	0.6+
1984 11 21	010	0.3+	0.1−	1999 12 17	699	(2.1+	0.7−)
1984 11 24	688	(0.7−	2.8−)	1999 12 17	699	0.2+	0.9−
1984 11 24	688	0.1−	2.1−	2000 01 31	704	0.3−	0.1+
1998 09 27	699	0.5−	0.5+	2000 01 31	704	0.8+	1.2−
1998 09 27	699	0.7−	0.4+	2000 01 31	704	0.2−	1.1−
1998 09 27	699	0.8−	0.8+	2000 02 16	704	0.9+	1.1+
1998 11 15	699	0.0	0.1−	2000 02 16	704	1.1+	0.6+
1998 11 15	699	0.6+	0.0	2000 02 16	704	0.4+	1.5+
1998 11 15	699	0.3−	0.8+	2000 02 16	704	0.2+	0.3+
1998 12 08	704	0.9−	1.0+	2000 02 16	704	0.9+	1.4+
1998 12 08	704	0.8−	1.6+	2000 02 17	704	0.3−	0.4+
1998 12 08	704	0.4−	1.5+	2000 02 17	704	0.6+	0.3+

2000 APR. 18

M.P.C. 40111

1998 12 08	704	(1.0− 2.3+)	2000 02 17	704	0.5+ 0.1+	2000 04 02	704	0.3+ 0.7−
1998 12 08	704	0.3+ 1.2+	2000 03 04	704	1.1− 0.2+	2000 04 02	704	0.3− 0.0
1999 12 15	704	0.2+ 0.6−	2000 03 04	704	0.7− 0.9+	2000 04 02	704	0.7− 0.7−
1999 12 15	704	0.5+ 0.7−	2000 03 04	704	0.8− 0.5+			

2000 DF₁ = 1998 WY₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	293.59398	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28737296	ω	218.33097	−0.25571099	+0.96475257	
<i>a</i>	2.2742530	Ω	36.97168	−0.85952690	−0.19744504	
<i>e</i>	0.1301381	<i>i</i>	5.93281	−0.44252164	−0.17397682	
<i>P</i>	3.43	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 20	699	0.1− 0.0	2000 03 03	652	0.4− 1.9−	2000 04 05	704	0.1+ 0.1−
1998 11 20	699	0.3+ 0.6+	2000 03 12	641	0.1+ 1.1−	2000 04 05	704	0.1+ 0.1+
1998 11 20	699	0.0 0.3+	2000 03 12	641	0.4− 0.8−	2000 04 05	704	0.2+ 0.2+
1998 11 21	704	0.5+ 0.9+	2000 03 12	704	0.4+ 0.1+	2000 04 07	699	0.2− 0.1+
1998 11 21	704	0.5+ 0.4+	2000 03 12	704	0.2+ 0.2+	2000 04 07	699	0.4− 0.0
1998 11 21	704	0.3− 0.9−	2000 03 12	704	0.6+ 0.7+	2000 04 07	699	0.6− 0.0
1998 11 21	704	0.1− 0.3+	2000 03 12	704	0.5+ 0.6+	2000 04 07	699	0.2+ 0.3+
1998 11 21	704	1.1− 0.6−	2000 03 26	699	0.0 0.1+	2000 04 08	704	0.4+ 0.1−
2000 01 08	704	0.5+ 0.1−	2000 03 26	699	0.2+ 0.0	2000 04 08	704	0.2− 0.2+
2000 01 08	704	0.3− 0.2−	2000 03 26	699	0.2+ 0.2+	2000 04 08	704	0.2− 0.5+
2000 01 08	704	0.2− 0.1+	2000 03 26	699	0.3+ 0.4+	2000 04 08	704	0.2− 0.4+
2000 01 08	704	0.5− 0.2+	2000 03 27	652	0.4− 0.2+	2000 04 08	704	0.1+ 0.7+
2000 01 08	704	0.1+ 0.1+	2000 03 27	652	0.3− 0.4+	2000 04 10	704	0.2+ 0.1+
2000 02 26	652	0.9− 0.2+	2000 03 29	704	0.5+ 0.0	2000 04 10	704	0.1+ 0.1+
2000 02 26	652	1.2− 0.2−	2000 03 29	704	0.3+ 0.0	2000 04 10	704	0.3+ 0.0
2000 02 27	652	(0.6− 2.6−)	2000 03 29	704	0.3+ 0.2+	2000 04 10	704	0.1+ 0.0
2000 02 27	652	(0.9− 2.2−)	2000 03 29	704	0.3+ 0.2+	2000 04 10	704	0.1− 0.2−
2000 02 27	652	0.0 1.0−	2000 04 05	704	0.4+ 0.0			
2000 03 03	652	0.4− 0.6−	2000 04 05	704	0.2+ 0.4−			

2000 DZ₃ = 1982 XW = 1998 SB₂₃

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	159.80355	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.30262421	ω	284.88156	+0.94414259	+0.32195377	
<i>a</i>	2.1971866	Ω	56.38350	−0.26048672	+0.85978079	
<i>e</i>	0.2027832	<i>i</i>	4.84179	−0.20184506	+0.39638714	
<i>P</i>	3.26	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1982 12 13	381	0.8− 0.2+	1998 10 17	699	0.6+ 0.6+	2000 02 28	704	0.4+ 0.2+
1982 12 13	381	1.0+ 0.3−	1998 10 17	699	0.4+ 1.1+	2000 02 28	704	0.2+ 0.1−
1982 12 14	381	0.1+ 0.7−	1998 10 17	699	0.2+ 0.5+	2000 02 28	704	1.0+ 1.4−
1982 12 14	381	(17.6− 4.9+)	2000 01 30	703	0.2− 0.2−	2000 02 29	704	0.4+ 0.2−
1998 08 20	699	0.6− 0.5+	2000 01 30	703	1.4− 0.5+	2000 02 29	704	0.3− 0.0
1998 08 20	699	0.4− 0.6+	2000 01 30	703	0.4− 0.0	2000 02 29	704	0.6+ 0.1−
1998 08 20	699	0.5− 0.1+	2000 01 30	703	0.5− 1.2+	2000 02 29	704	0.3+ 0.5+
1998 09 17	699	0.2− 0.6+	2000 02 11	704	0.1+ 0.7+	2000 02 29	704	0.6+ 0.9+
1998 09 17	699	0.2− 0.0	2000 02 11	704	0.1− 0.9+	2000 03 04	704	1.0+ 0.2+
1998 09 17	699	0.3− 0.4+	2000 02 11	704	0.7− 1.5+	2000 03 04	704	0.1+ 0.2−
1998 09 24	699	0.1+ 0.0	2000 02 11	704	0.1− 0.7+	2000 03 04	704	0.1+ 0.7−
1998 09 24	699	0.1+ 0.4−	2000 02 28	704	0.1− 0.1−	2000 03 04	704	0.6+ 0.1+
1998 09 24	699	0.2+ 0.8−	2000 02 28	704	0.6− 0.3+	2000 03 04	704	0.6+ 0.8−

2000 DN₄ = 1998 VU₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	113.16059	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21178080	ω	6.33910	+0.84225558	−0.53710930	
<i>a</i>	2.7874793	Ω	26.30995	+0.48992132	+0.72702982	
<i>e</i>	0.0198566	<i>i</i>	5.96156	+0.22490585	+0.427771630	
<i>P</i>	4.65	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 19	910	0.7+ 0.6−	2000 02 03	704	0.3− 0.0	2000 02 28	704	1.0+ 0.2+
1998 09 19	910	0.8+ 0.4−	2000 02 03	704	0.2+ 0.6−	2000 02 29	704	0.6+ 0.1−
1998 09 19	910	0.6+ 0.3−	2000 02 03	704	0.1− 0.7−	2000 02 29	704	0.3+ 0.2+
1998 10 18	699	0.4+ 0.8+	2000 02 03	704	0.0 0.5−	2000 02 29	704	0.4+ 0.6−
1998 10 18	699	0.9− 0.7+	2000 02 03	704	0.0 0.2−	2000 02 29	704	0.5+ 0.1−
1998 10 18	699	0.1− 0.4+	2000 02 06	703	0.1+ 0.2−	2000 02 29	704	0.8+ 0.1+
1998 11 10	704	0.2+ 0.3+	2000 02 06	703	1.1− 0.3+	2000 03 04	704	0.2+ 0.0
1998 11 10	704	0.2+ 1.1+	2000 02 06	703	0.2− 0.2−	2000 03 04	704	0.0 0.0
1998 11 10	704	0.1− 1.1−	2000 02 06	703	1.1− 1.1+	2000 03 04	704	0.2+ 0.3−
1998 11 10	699	0.6+ 1.7+	2000 02 11	704	0.1+ 0.5+	2000 03 04	704	0.0 0.5−
1998 11 10	699	0.4+ 0.4−	2000 02 11	704	0.9− 1.6+	2000 03 04	704	0.2− 0.6−
1998 11 10	699	1.5− 0.7−	2000 02 11	704	0.1− 0.6+	2000 03 11	699	0.5− 0.5+
1998 11 11	704	0.1+ 0.7+	2000 02 11	704	0.2+ 0.5+	2000 03 11	699	0.1− 0.0
1998 11 11	704	0.8+ 0.2−	2000 02 11	704	0.4− 0.1+	2000 03 11	699	0.2+ 0.4−
1998 11 11	704	0.7− 1.4−	2000 02 28	704	0.5+ 0.3−	2000 03 11	699	0.4− 0.3−
1998 11 11	704	0.5− 1.1−	2000 02 28	704	0.1+ 0.0			
1998 11 11	704	0.7− 0.4+	2000 02 28	704	0.0 0.1−			

2000 DR₄ = 1980 TK₁₀ = 1983 EB₂ = 1987 DP₅

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	275.02161	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22580951	ω	238.04414	−0.43848975	+0.89857228	
<i>a</i>	2.6707991	Ω	6.02470	−0.75949713	−0.36027733	
<i>e</i>	0.0979368	<i>i</i>	9.41196	−0.48051104	−0.25053563	
<i>P</i>	4.36	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1980 10 15	095	0.1+ 0.6−	1999 12 15	704	1.1− 1.8−	2000 02 29	704	0.3+ 0.0
1983 03 11	381	0.0 0.3−	1999 12 15	704	0.2+ 0.5+	2000 03 04	704	0.1+ 0.0
1983 03 11	381	0.3+ 0.5−	1999 12 15	704	0.4+ 0.1+	2000 03 04	704	0.3+ 0.4+
1987 02 23	010	1.4− 1.4−	2000 02 03	704	0.1+ 0.2+	2000 03 04	704	1.2+ 0.4−
1987 02 23	010	0.9+ 0.5−	2000 02 03	704	0.1+ 0.3+	2000 03 04	704	0.8− 0.6+
1987 02 23	010	1.1− 0.7+	2000 02 03	704	0.4+ 0.2+	2000 03 11	699	0.2+ 0.1−
1996 03 17	566	0.2+ 0.6−	2000 02 03	704	1.3+ 0.4+	2000 03 11	699	0.2− 0.3−
1996 03 17	566	0.1+ 0.6−	2000 02 06	703	0.6− 0.1+	2000 03 11	699	0.0 0.2−
1996 03 17	566	0.0 0.4−	2000 02 06	703	0.1− 0.2−	2000 03 11	699	0.0 0.3−
1997 08 30	566	0.1− 0.3+	2000 02 06	703	0.4− 0.0	2000 03 12	704	0.5+ 0.4+
1997 08 30	566	0.6− 0.3+	2000 02 06	703	0.2− 0.0	2000 03 12	704	0.5+ 0.1+
1997 08 30	566	0.5− 0.3+	2000 02 28	704	0.3+ 0.7+	2000 03 12	704	0.1− 0.2+
1998 12 24	699	0.6+ 0.2−	2000 02 28	704	0.8− 0.1+	2000 03 12	704	0.2− 0.3+
1998 12 24	699	0.8+ 0.4−	2000 02 28	704	1.3− 0.6+	2000 03 12	704	0.1+ 0.4+
1998 12 24	699	0.6+ 0.4+	2000 02 28	704	0.5− 0.2−	2000 04 02	704	0.7+ 1.1+
1999 11 16	703	0.4− 0.9+	2000 02 29	704	0.1− 0.4+	2000 04 02	704	0.4+ 0.0
1999 11 16	703	0.3− 0.2+	2000 02 29	704	0.1+ 0.4+	2000 04 02	704	0.2+ 0.1+
1999 11 16	703	0.2+ 0.1−	2000 02 29	704	0.2− 0.1+	2000 04 02	704	0.0 0.3−
1999 11 16	703	0.5+ 0.4+	2000 02 29	704	0.1+ 0.2+	2000 04 02	704	0.4− 1.0−

2000 DE₇ = 1998 XD₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	260.17997	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.25746614	ω	204.95136	+0.30335488	+0.94465469	
<i>a</i>	2.4471239	Ω	82.90818	−0.85176735	+0.32759195	
<i>e</i>	0.1287014	<i>i</i>	7.23136	−0.42716297	+0.01763608	
<i>P</i>	3.83	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 15	704	0.5+	0.8+	2000 03 12	703	0.5-	1.0+	2000 03 29	704	0.0	0.1+
1998 12 15	704	0.8-	0.5-	2000 03 12	703	0.1-	0.3+	2000 03 29	704	0.1-	0.1+
1998 12 15	704	0.2-	0.9+	2000 03 12	704	0.0	0.3+	2000 03 29	704	0.2+	0.9+
1998 12 15	704	0.2+	0.8+	2000 03 12	704	0.5-	0.1-	2000 03 29	704	0.0	0.9+
1998 12 16	704	0.9-	0.1-	2000 03 12	704	0.6-	1.1-	2000 03 29	704	0.1+	1.1+
1998 12 16	704	1.0+	1.5-	2000 03 12	704	1.3-	0.4-	2000 04 03	704	0.3+	0.2+
1998 12 16	704	(0.2+ 2.5-)		2000 03 24	411	0.5-	0.5-	2000 04 03	704	0.2-	0.4-
2000 02 29	411	0.5+	0.5-	2000 03 24	411	0.2-	0.7-	2000 04 03	704	0.2-	0.7+
2000 02 29	411	1.2+	0.2-	2000 03 26	699	0.5+	0.2-	2000 04 03	704	0.3+	0.1-
2000 03 01	411	0.1-	0.3-	2000 03 26	699	0.1+	1.0-	2000 04 03	704	0.2-	0.1-
2000 03 01	411	0.3+	1.5-	2000 03 26	699	0.9+	0.1-	2000 04 08	704	0.9+	0.4-
2000 03 08	411	0.3+	0.7-	2000 03 26	699	0.4-	0.1+	2000 04 08	704	0.5+	0.1-
2000 03 08	411	0.4-	0.0	2000 03 28	704	0.2-	0.3+	2000 04 08	704	0.1+	0.3+
2000 03 12	703	0.9-	0.7+	2000 03 28	704	0.7-	0.3+	2000 04 08	704	0.3+	0.1-
2000 03 12	703	0.7-	0.2+	2000 03 28	704	0.9+	0.2+	2000 04 08	704	0.1+	1.0+

2000 DH₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	348.65098	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.39535631	ω	25.23540	-0.96556906
<i>a</i>	1.8385563	Ω	159.26863	-0.09953977
<i>e</i>	0.3052205	<i>i</i>	37.59720	+0.24035022
<i>P</i>	2.49	<i>H</i>	18.3	<i>U</i>
				2

Residuals in seconds of arc

1995 02 26	675	0.7+	1.5+	2000 02 28	413	0.4+	0.3-	2000 03 02	344	0.1-	0.3+
1995 02 26	675	1.0-	0.3-	2000 02 28	413	0.4+	0.1-	2000 03 02	344	0.1-	0.0
2000 02 26	703	1.0+	0.7+	2000 02 28	413	0.3+	0.0	2000 03 03	106	0.2+	0.2+
2000 02 26	703	0.0	1.6+	2000 02 28	344	1.8+	0.3-	2000 03 03	106	0.3+	0.4+
2000 02 26	703	0.8+	1.2+	2000 02 28	344	1.7+	0.0	2000 03 03	104	0.1+	0.4-
2000 02 26	703	0.1-	0.6+	2000 02 28	344	1.0+	0.2-	2000 03 03	104	1.2-	1.0-
2000 02 26	046	0.3+	0.3+	2000 02 28	422	0.0	0.1-	2000 03 04	866	0.2+	1.0+
2000 02 26	046	0.1+	0.1-	2000 02 28	422	0.2-	0.1-	2000 03 04	866	0.1+	0.9+
2000 02 26	046	0.1+	0.3+	2000 02 28	422	0.3-	0.0	2000 03 04	704	1.3-	1.3-
2000 02 26	046	0.0	0.1+	2000 02 28	595	1.2-	0.8-	2000 03 04	704	0.2+	0.3-
2000 02 26	046	0.4+	0.0	2000 02 28	595	0.3+	0.1-	2000 03 04	704	0.4+	0.0
2000 02 26	046	0.3+	0.4+	2000 02 28	595	0.5-	0.9-	2000 03 04	866	0.1-	0.8-
2000 02 26	118	0.2+	0.1-	2000 02 28	595	1.7-	0.4-	2000 03 04	704	0.5+	0.4+
2000 02 26	557	0.0	0.1-	2000 02 28	046	0.1-	0.5+	2000 03 04	704	0.8+	0.3-
2000 02 26	118	0.0	0.1-	2000 02 28	046	0.8-	0.2-	2000 03 04	118	0.2+	0.4-
2000 02 26	557	0.1-	0.1-	2000 02 28	046	0.8-	0.7+	2000 03 04	118	0.6+	0.6-
2000 02 26	557	0.2-	0.2-	2000 02 28	046	0.7+	0.8-	2000 03 04	118	0.1-	0.7-
2000 02 26	557	0.0	0.1+	2000 02 29	344	0.0	0.9+	2000 03 05	610	0.8-	0.0
2000 02 26	118	0.2-	0.1+	2000 02 29	344	0.0	0.7+	2000 03 05	610	0.6-	0.0
2000 02 26	611	0.4+	0.6-	2000 03 01	858	0.6-	0.2-	2000 03 05	610	0.4-	0.1+
2000 02 26	611	0.3+	0.2+	2000 03 01	858	0.5-	0.1-	2000 03 05	610	0.2-	0.2+
2000 02 26	611	0.2-	0.7+	2000 03 01	858	0.3-	0.2+	2000 03 05	610	0.0	0.3+
2000 02 26	611	0.2-	0.7+	2000 03 01	858	0.6-	0.5-	2000 03 05	610	0.3+	0.3+
2000 02 26	611	0.4+	0.3+	2000 03 01	344	0.3-	0.1-	2000 03 10	703	0.3+	1.2+
2000 02 27	734	0.0	0.8+	2000 03 01	344	0.3-	0.0	2000 03 10	703	0.0	1.1+
2000 02 27	734	0.5-	0.2+	2000 03 01	344	0.4-	0.1+	2000 03 10	703	0.1+	1.0+
2000 02 27	734	0.0	1.4-	2000 03 01	900	0.6-	0.1-	2000 03 10	703	0.2+	1.5+
2000 02 27	651	0.9+	1.0-	2000 03 01	900	0.2-	0.2-	2000 03 12	670	0.2+	0.0
2000 02 27	651	0.9+	0.9-	2000 03 01	422	0.1-	0.1-	2000 03 12	670	0.5+	1.3+
2000 02 27	651	0.8+	1.0-	2000 03 01	422	0.5-	0.3-	2000 03 14	402	0.4-	0.5-
2000 02 27	413	0.1-	0.3-	2000 03 01	422	0.2-	0.2-	2000 03 14	402	0.1+	0.3-
2000 02 27	413	0.2-	0.3-	2000 03 01	402	0.1+	0.7-	2000 03 14	402	0.3+	0.3+
2000 02 27	046	0.3+	0.4+	2000 03 01	402	0.1-	0.1-	2000 03 14	360	0.1-	0.3-
2000 02 27	046	0.3+	0.4-	2000 03 01	402	0.2-	0.2-	2000 03 14	360	0.1-	0.0
2000 02 27	046	0.1+	0.2-	2000 03 01	402	0.1-	1.0-	2000 03 14	360	0.0	0.2-
2000 02 27	046	0.0	0.2+	2000 03 02	670	1.0-	1.1-	2000 03 24	658	0.5-	0.2+
2000 02 27	046	0.1+	0.2+	2000 03 02	670	1.0-	1.0-	2000 03 24	658	0.1-	0.4+
2000 02 28	118	0.0	0.4-	2000 03 02	474	0.1-	0.6+	2000 03 24	658	0.2-	0.1-
2000 02 28	118	0.3+	0.6+	2000 03 02	474	0.0	0.1-	2000 03 25	704	0.4+	0.3+
2000 02 28	118	0.7+	0.5+	2000 03 02	474	0.1-	0.0	2000 03 25	704	0.0	0.8-
2000 02 28	734	0.4-	1.0-	2000 03 02	474	0.4+	0.3+	2000 03 25	704	0.3-	0.0

2000 02 28	734	0.4-	0.2+	2000 03 02	474	0.4+	0.3+	2000 03 25	704	0.5+	1.2-
2000 02 28	734	0.3-	0.6+	2000 03 02	344	0.0	0.3+	2000 03 25	704	0.5+	0.2-

2000 DN₈ = 1987 AB

Id. DANEOPS

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	80.41412	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.38386013	ω	269.19073	+0.57133213
<i>a</i>	1.8750839	Ω	135.38343	+0.75185956
<i>e</i>	0.3990087	<i>i</i>	36.94499	-0.32906960
<i>P</i>	2.57	<i>H</i>	15.3	<i>U</i>
				3

Residuals in seconds of arc

1978 08 24	413	0.2+	1.2-	2000 02 28	850	0.6-	1.2+	2000 03 01	402	0.0	0.1-
1978 08 24	413	1.0-	0.0	2000 02 28	850	0.2+	0.1-	2000 03 02	651	0.8-	0.6+
1987 01 10	413	1.1+	0.6+	2000 02 28	850	1.5-	0.6+	2000 03 02	651	0.7-	0.5+
1987 01 10	413	0.7-	1.3-	2000 02 28	850	0.8-	0.2-	2000 03 02	651	0.5-	0.7+
2000 01 07	704	0.4-	0.1+	2000 02 28	344	0.3-	0.0	2000 03 02	344	0.5+	0.5+
2000 01 07	704	0.1+	0.8+	2000 02 28	344	0.2-	0.1+	2000 03 02	344	0.4+	0.4+
2000 01 07	704	(2.3+ 0.2-)		2000 02 28	344	0.4-	0.1-	2000 03 02	344	0.4+	0.4+
2000 01 07	704	0.3+	0.1-	2000 02 28	344	0.7-	0.1+	2000 03 06	360	0.5+	0.2-
2000 02 27	704	0.3-	0.2+	2000 02 28	344	0.6-	0.2+	2000 03 06	360	0.5+	0.2-
2000 02 27	704	0.6-	0.1-	2000 02 28	413	0.1+	0.2+	2000 03 06	360	0.5+	0.4-
2000 02 27	704	0.3-	0.5+	2000 02 28	413	0.9-	0.3+	2000 03 09	587	0.6-	1.6-
2000 02 27	704	0.6+	0.2-	2000 02 28	413	0.0	0.5-	2000 03 09	587	0.3-	1.2-
2000 02 27	704	0.5-	0.5-	2000 02 28	557	0.2+	0.2-	2000 03 09	587	0.1-	0.6-
2000 02 28	046	0.1-	1.0-	2000 02 28	557	0.2-	0.3-	2000 03 14	402	0.0	0.0
2000 02 28	046	0.1-	0.2-	2000 02 28	557	0.0	0.1+	2000 03 14	402	0.2+	0.5-
2000 02 28	046	0.2+	0.4-	2000 02 29	118	1.0+	0.1-	2000 03 14	402	0.0	0.7-
2000 02 28	046	0.1+	0.0	2000 02 29	118	0.4-	0.3+	2000 03 26	704	0.7+	1.4+
2000 02 28	046	0.1-	0.3-	2000 02 29	118	0.8+	0.0	2000 03 26	704	0.4-	1.0+
2000 02 28	046	0.5-	0.2+	2000 02 29	704	0.5+	0.0	2000 03 26	704	1.1+	1.0+
2000 02 28	118	0.6+	0.3-	2000 02 29	704	0.8+	0.3-	2000 03 26	704	1.3+	1.3+
2000 02 28	118	0.2+	0.7-	2000 02 29	704	0.6+	0.0	2000 04 10	699	0.1+	0.2+
2000 02 28	118	0.2-	0.7-	2000 02 29	704	0.3+	0.2-	2000 04 10	699	0.2-	0.2-
2000 02 28	858	0.0	0.4-	2000 02 29	704	0.7+	0.4+	2000 04 10	699	0.1+	0.5+
2000 02 28	858	0.7-	0.7-	2000 03 01	402	0.3+	0.7-	2000 04 10	699	0.3-	1.5+
2000 02 28	858	0.2+	0.9-	2000 03 01	402	0.4+	0.0				
2000 02 28	850	0.6-	0.9+	2000 03 01	402	0.3-	0.4-				

2000 DR₈ = 1971 TM₃ = 1990 UE₁₃ = 1998 XD₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.68560	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26191846	ω	265.66021	+0.52493255
<i>a</i>	2.4193125	Ω	36.33284	-0.72113993
<i>e</i>	0.1636260	<i>i</i>	7.37237	-0.45210952
<i>P</i>	3.76	<i>H</i>	13.4	<i>U</i>
				2

Residuals in seconds of arc

1971 10 11	095	0.3-	0.4+	2000 02 27	652	0.3+	0.8-	2000 04 05	704	1.0-	0.2+
1990 10 23	095	(1.7-	2.0+)	2000 02 27	652	0.7+	0.5-	2000 04 07	704	0.0	0.2+
1996 05 15	327	0.1+	1.0-	2000 02 27	652	0.0	1.0-	2000 04 07	704	0.8+	0.5+
1996 05 15	327	0.5-	0.2-	2000 03 02	849	(1.2+	3.1-)	2000 04 07	704	0.0	0.0
1996 05 15	327	0.1+	0.3-	2000 03 02	849	0.3-	0.9+	2000 04 07	704	0.2-	0.1+
1998 12 14	704	0.3-	0.0	2000 03 06	608	(0.5+	2.4-)	2000 04 07	704	0.1+	0.1-
1998 12 14	704	0.2+	1.8-	2000 03 06	608	(0.6+	2.7-)	2000 04 07	608	0.1-	0.9-
1998 12 14	704	0.1+	1.3-	2000 03 06	608	(0.0	2.5-)	2000 04 07	608	0.8+	0.8-
1998 12 14	704	1.1+	0.2-	2000 03 11	699	0.0	0.1+	2000 04 07	608	0.7+	1.7-
1998 12 14	704	1.2+	0.8-	2000 03 11	699	0.1+	0.5+	2000 04 08	704	0.4+	0.2+
1998 12 17	704	0.9-	1.4+	2000 03 11	699	0.2-	0.0	2000 04 08	704	0.6+	0.1-
1998 12 17	704	0.1-	0.1+	2000 03 11	699	0.1+	0.3+	2000 04 08	704	0.3+	0.3+
1998 12 17	704	0.9+	0.3-	2000 03 12	641	0.0	1.3-	2000 04 08	704	0.5+	0.1-
1998 12 17	704	0.4-	0.8+	2000 03 12	641	0.3+	1.4-	2000 04 08	704	0.2+	0.0
1998 12 17	704	0.0	0.5+	2000 03 12	704	0.2-	0.1+	2000 04 08	704	0.4+	0.1-
1999 01 16	704	0.4+	0.0	2000 03 12	704	1.8-	0.2-	2000 04 08	704	0.1+	0.3-
1999 01 16	704	0.6-	0.4+	2000 03 12	704	1.4-	0.3-	2000 04 08	704	0.4+	0.3-

2000 APR. 18

M.P.C. 40113

1999 01 16	704	1.1−	0.6+	2000 03 12	704	1.7−	0.6−	2000 04 08	704	0.4−	0.2+
1999 01 16	704	0.2−	0.2+	2000 03 27	652	0.1−	0.9+	2000 04 08	704	0.5−	0.1−
1999 01 16	704	0.4−	1.0+	2000 03 27	652	0.2+	0.9+	2000 04 10	704	0.4+	0.3+
2000 01 08	704	0.2−	0.8+	2000 03 29	704	0.2+	0.2+	2000 04 10	704	0.5+	0.4+
2000 01 08	704	0.2+	1.0−	2000 03 29	704	0.1+	0.2+	2000 04 10	704	0.6+	0.1+
2000 01 08	704	0.3+	0.0	2000 03 29	704	0.4+	0.5+	2000 04 10	704	0.6+	0.4+
2000 01 08	704	0.4−	0.7−	2000 03 29	704	0.3+	0.3+	2000 04 10	704	0.4+	0.9+
2000 01 08	704	0.7−	0.3−	2000 04 05	704	0.5−	0.8+	2000 04 11	608(13.6+	0.0	)
2000 01 13	699	1.8−	1.6+	2000 04 05	704	0.2+	0.8+	2000 04 11	608(14.0+	0.1−	)
2000 01 13	699	0.1+	0.3+	2000 04 05	704	0.0	0.4+	2000 04 11	608(16.3+	0.2+	)
2000 01 13	699	0.1−	1.3+	2000 04 05	704	0.3−	0.3−				

2000 DZ₁₂ = 1979 OZ₄ = 1983 UM = 1996 EU₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	184.21675	(2000.0)	
<i>n</i>	0.26861076	<i>ω</i>	235.03721
<i>a</i>	2.3789599	<i>Ω</i>	122.24532
<i>e</i>	0.2346209	<i>i</i>	1.42788
<i>P</i>	3.67	<i>H</i>	14.9

Residuals in seconds of arc

1979 07 24	675	0.1−	0.8+	1996 03 24	691	0.3+	0.2+	2000 03 03	691	0.0	0.6−
1979 07 24	413	0.2−	1.1−	1996 03 24	691	0.4+	0.0	2000 03 10	704	0.2−	0.6+
1979 07 25	675	0.7+	0.9+	2000 02 27	691	0.3−	0.5−	2000 03 10	704	0.3+	0.4−
1979 07 27	675	0.5−	0.5−	2000 02 27	691	0.2−	0.4−	2000 03 10	704	0.6+	0.7+
1983 10 30	675	0.8−	0.8−	2000 02 27	691	0.2−	0.5−	2000 03 10	704	0.6+	0.4−
1983 11 04	675	0.8+	0.9+	2000 03 02	691	0.4−	0.2−	2000 03 10	704	0.3+	1.9+
1996 03 12	691	0.5−	0.3+	2000 03 02	691	0.4−	0.4−	2000 04 05	688	0.2+	0.3+
1996 03 12	691	0.2−	0.0	2000 03 02	691	0.4−	0.3−	2000 04 05	688	0.1+	0.5+
1996 03 12	691	0.3−	0.2+	2000 03 03	691	0.2−	0.5−				
1996 03 24	691	0.7+	0.2+	2000 03 03	691	0.2−	0.6−				

2000 DF₁₃ = 1998 XO₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	196.16273	(2000.0)	
<i>n</i>	0.22088192	<i>ω</i>	159.68127
<i>a</i>	2.7103743	<i>Ω</i>	166.21213
<i>e</i>	0.1944245	<i>i</i>	8.63997
<i>P</i>	4.46	<i>H</i>	13.5

Residuals in seconds of arc

1993 10 11	809(40.3+	13.8+)	2000 02 02	704	0.6+	0.2+	2000 03 03	704	0.3+	0.2+	
1993 10 11	809(40.3+	13.5+)	2000 02 02	704	(2.2+	1.8+)	2000 03 03	704	0.2−	0.1−	
1993 10 11	809(39.6+	14.0+)	2000 02 28	691	0.3−	0.9−	2000 03 04	704	0.5−	0.0	
1997 05 31	691	0.6−	0.2−	2000 02 28	691	0.2−	0.8−	2000 03 04	704	0.0	0.4−
1997 05 31	691	0.3+	0.1−	2000 02 28	691	0.6−	0.8−	2000 03 04	704	0.3−	0.0
1997 05 31	691	0.4+	0.2+	2000 02 29	704	0.5+	0.5−	2000 03 04	704	0.4−	0.2+
1998 12 15	704	0.7−	0.3+	2000 02 29	704	1.1+	0.7+	2000 03 04	704	0.1−	0.0
1998 12 15	704	0.8+	0.4+	2000 02 29	704	0.2+	0.4+	2000 03 11	704	0.2−	0.6+
1998 12 15	704	0.2+	0.5+	2000 02 29	704	0.6+	0.8+	2000 03 11	704	0.4−	0.3+
1998 12 15	704	0.6−	0.6+	2000 02 29	704	0.8+	0.6+	2000 03 11	704	0.4−	0.4−
1998 12 22	704	0.8+	1.0−	2000 03 02	691	0.8−	0.9−	2000 03 11	704	0.4−	0.3+
1998 12 22	704	0.4−	0.8−	2000 03 02	691	1.0−	0.7−	2000 03 11	704	0.4−	0.7+
1998 12 22	704	1.3+	0.5+	2000 03 02	691	1.0−	0.9−	2000 04 03	704	0.4+	0.0
1998 12 22	704	1.4−	0.4−	2000 03 03	704	0.0	0.0	2000 04 03	704	0.7+	0.9+
2000 02 02	704	0.3+	0.2+	2000 03 03	704	0.1−	0.1−	2000 04 03	704	0.9+	0.1−
2000 02 02	704	0.1+	0.1+	2000 03 03	704	0.2+	0.2+	2000 04 03	704	0.7+	0.4+

2000 DH₁₅ = 1998 TJ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	87.91961	(2000.0)	
<i>n</i>	0.23132060	<i>ω</i>	45.55337
<i>a</i>	2.6282086	<i>Ω</i>	21.58621
<i>e</i>	0.1307951	<i>i</i>	6.12972
<i>P</i>	4.26	<i>H</i>	14.1

Residuals in seconds of arc

1998 10 15	691	0.1+	0.0	2000 03 02	703	0.4+	0.5+	2000 04 02	699	0.3+	0.7−
1998 10 15	691	0.0	0.1−	2000 03 02	703	0.2−	0.5+	2000 04 02	699	0.0	1.1−
1998 10 15	691	0.1+	0.4+	2000 03 11	699	0.3−	0.4−	2000 04 05	704	1.0−	0.2+
1998 10 20	691	0.1−	0.2+	2000 03 11	699	0.6−	0.1−	2000 04 05	704	0.9−	0.5−
1998 10 20	691	0.1+	0.2−	2000 03 11	699	0.7−	0.0	2000 04 05	704	0.6−	0.5−
1998 10 20	691	0.0	0.4−	2000 03 11	699	0.1+	0.0	2000 04 05	704	0.3−	0.3+
2000 02 11	704	0.5+	0.4+	2000 03 12	704	0.3+	0.3−	2000 04 08	704	0.1+	0.2−
2000 02 11	704	0.2+	0.3+	2000 03 12	704	0.4+	0.2−	2000 04 08	704	0.1+	0.2+
2000 02 11	704	0.7+	0.4+	2000 03 12	704	0.2−	0.1+	2000 04 08	704	0.2−	1.5+
2000 02 11	704	0.9+	0.7+	2000 03 12	704	0.7+	1.0+	2000 04 08	704	0.3−	0.5+
2000 02 26	703	0.0	0.3−	2000 03 12	704	0.2−	0.2+	2000 04 08	704	0.5+	0.4+
2000 02 26	703	1.1−	1.8−	2000 03 28	704	0.5−	0.3−	2000 04 10	704	0.4+	0.5−
2000 02 26	703	0.0	0.3+	2000 03 28	704	0.1−	0.0	2000 04 10	704	0.0	0.9+
2000 02 26	703	1.5−	0.9−	2000 03 28	704	1.0−	0.3−	2000 04 10	704	0.4+	0.0
2000 03 02	703	1.1+	0.8+	2000 04 02	699	0.7+	1.0−	2000 04 10	704	1.5+	0.3+
2000 03 02	703	0.2−	0.0	2000 04 02	699	0.6+	0.2−				

2000 DP₁₅ = 1994 SJ = 1998 XL₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	252.80352	(2000.0)	
<i>n</i>	0.28436331	<i>ω</i>	258.68616
<i>a</i>	2.2902717	<i>Ω</i>	33.52780
<i>e</i>	0.1504914	<i>i</i>	5.07960
<i>P</i>	3.47	<i>H</i>	14.1

Residuals in seconds of arc

1994 09 30	372	(1.8+	2.8+)	2000 02 26	703	0.0	0.1−	2000 04 02	699	0.2+	0.1+
1994 10 01	372	0.3+	0.7−	2000 03 02	703	0.1−	0.4−	2000 04 02	699	1.1+	0.3+
1998 12 14	704	0.3−	0.5−	2000 03 02	703	0.0	0.0	2000 04 02	699	0.6+	0.2+
1998 12 14	704	1.0+	1.2+	2000 03 02	703	0.0	0.3+	2000 04 02	699	0.0	0.2−
1998 12 14	704	0.8−	1.2−	2000 03 02	703	0.2+	0.2+	2000 04 03	704	0.1+	0.0
1998 12 14	704	0.5+	1.1+	2000 03 11	699	0.3−	0.2−	2000 04 03	704	0.5+	0.3+
1998 12 17	704	0.7−	0.7−	2000 03 11	699	0.0	0.3+	2000 04 03	704	0.2+	0.3−
1998 12 17	704	0.5−	0.2+	2000 03 11	699	0.0	0.0	2000 04 03	704	0.0	0.5+
1998 12 17	704	0.7−	0.4+	2000 03 11	699	0.5−	0.1+	2000 04 03	704	0.1−	0.6+
1998 12 17	704	1.7+	1.2−	2000 03 11	699	0.4−	0.1−	2000 04 06	608	0.3−	0.9−
1998 12 17	704	0.0	0.1−	2000 03 11	699	0.5−	0.2+	2000 04 06	608	0.0	0.9−
2000 01 08	704	0.1−	1.1+	2000 03 11	699	0.2−	0.1−	2000 04 06	608	0.4−	2.0+
2000 01 08	704	0.1−	1.0+	2000 03 11	699	0.4−	0.1+	2000 04 08	704	0.1+	0.3−
2000 01 08	704	0.7+	0.2−	2000 03 12	704	0.2−	0.2+	2000 04 08	704	0.0	0.3−
2000 02 11	704	0.4+	0.5+	2000 03 12	704	0.2+	0.1+	2000 04 08	704	0.6+	1.3−
2000 02 11	704	0.4+	0.2−	2000 03 12	704	0.1+	0.2−	2000 04 08	704	0.0	1.3−
2000 02 11	704	0.4+	0.4+	2000 03 12	704	0.0	0.1−	2000 04 08	704	0.3−	1.1−
2000 02 11	704	0.8−	0.3+	2000 03 12	704	0.0	0.2+	2000 04 10	704	0.0	0.7−
2000 02 26	703	0.7−	0.3−	2000 03 28	704	0.0	0.2+	2000 04 10	704	0.5−	0.1−
2000 02 26	703	0.4−	0.5+	2000 03 28	704	0.1+	0.2−	2000 04 10	704	0.3+	0.7−
2000 02 26	703	0.0	0.3+	2000 03 28	704	0.1+	0.7+	2000 04 10	704	0.0	0.8−

2000 DV₁₅ = 1997 SK₂₇ = 1998 XC₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	149.04807	(2000.0)	
<i>n</i>	0.19380107	<i>ω</i>	350.96884
<i>a</i>	2.9573219	<i>Ω</i>	27.95903
<i>e</i>	0.0606000	<i>i</i>	2.17007
<i>P</i>	5.09	<i>H</i>	12.9

Residuals in seconds of arc

1997 08 05	327	0.2+	0.1+	2000 02 27	703	0.3−	0.1−	2000 03 11	699	1.6−	0.3+
1997 08 05	327	0.0	0.1+	2000 02 27	703	0.3−	0.1−	2000 03 11	704	0.4+	0.3−
1997 08 05	327	0.1−	0.0	2000 02 27	703	0.1+	0.1−	2000 03 11	699	0.4−	0.5+
1997 09 29	691	0.7−	1.1+	2000 03 02	703	0.3−	0.2+	2000 03 11	704	0.2+	0.2−
1997 09 29	691	0.8−	1.0+	2000 03 02	703	0.0	0.4−	2000 03 11	699	0.4−	0.5+
1997 09 29	691	0.6−	1.2+	2000 03 02	703	0.5−	0.1+	2000 04 05	704	0.2+	0.4−
1997 10 05	691	0.4−	1.1+	2000 03 02	703	0.1+	0.3+	2000 04 05	704	0.3−	0.4+
1997 10 05	691	0.2−	1.1+	2000 03 03	704	0.0	0.1+	2000 04 05	704	0.5−	0.2+

1997 10 05	691	0.3−	0.9+	2000 03 03	704	0.2+	0.4+	2000 04 05	704	0.3−	0.5+
1998 12 14	704	0.3+	0.6−	2000 03 03	704	0.2−	0.2+	2000 04 05	704	0.1−	0.5+
1998 12 14	704	0.6−	0.2+	2000 03 03	704	0.0	0.2+	2000 04 05	704	0.2−	0.6+
1998 12 14	704	1.1+	0.2+	2000 03 03	704	0.6−	0.1−	2000 04 05	704	0.7+	0.3+
1998 12 14	704	0.9+	0.7+	2000 03 05	608	(0.4+	2.5−)	2000 04 05	704	0.6+	0.0
1998 12 17	704	1.2−	0.0	2000 03 05	608	(0.3+	3.0−)	2000 04 05	704	1.0+	0.1+
1998 12 17	704	1.4+	0.9−	2000 03 05	608	(0.5+	2.4−)	2000 04 05	704	0.1+	0.6+
1998 12 17	704	(1.6−	2.9+)	2000 03 08	704	0.1−	0.1−	2000 04 06	704	0.3+	0.2+
1998 12 17	704	1.1−	0.0	2000 03 08	704	0.7+	0.4+	2000 04 06	704	0.6+	0.7+
1998 12 17	704	0.7−	0.4+	2000 03 08	704	(2.3+	1.3−)	2000 04 06	704	0.2+	0.3+
2000 02 06	704	0.8+	0.4+	2000 03 08	704	1.0+	0.6+	2000 04 06	704	0.1−	0.9+
2000 02 06	704	1.0+	0.7+	2000 03 11	704	0.4+	0.4−	2000 04 10	704	0.4+	0.2+
2000 02 06	704	0.7+	0.7−	2000 03 11	699	0.6−	0.5+	2000 04 10	704	0.2+	0.0
2000 02 06	704	0.5−	0.5−	2000 03 11	704	0.1+	0.4−	2000 04 10	704	0.3+	0.2+
2000 02 27	703	0.3+	0.3+	2000 03 11	704	0.2+	0.2−	2000 04 10	704	0.1−	0.4−

2000 DL₁₆ = 1975 WE = 1991 GC₈

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	89.10748	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.21417366	ω	65.26314	+0.24752981	−0.96799022
<i>a</i>	2.7666784	Ω	10.65886	+0.78792657	+0.17617664
<i>e</i>	0.1816337	<i>i</i>	12.97232	+0.56382684	+0.17876443
<i>P</i>	4.60	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

1975 11 27	095	0.0	0.6−	2000 01 10	699	1.3−	0.2−	2000 04 05	704	0.5+	0.2−
1975 11 27	095	1.2+	2.1−	2000 01 10	699	0.0	0.9+	2000 04 05	704	0.4−	0.3−
1991 04 08	809	(2.5−	1.1−)	2000 01 10	699	0.1+	0.7+	2000 04 06	699	0.3−	1.1+
1991 04 08	809	(2.5−	0.9−)	2000 02 29	120	0.3+	0.2−	2000 04 06	699	0.2−	0.1+
1991 04 08	809	(2.6−	1.3−)	2000 02 29	120	1.5−	1.3−	2000 04 06	704	0.1+	0.1+
1991 04 10	809	1.0−	0.6−	2000 02 29	120	1.1−	0.1+	2000 04 06	699	0.8+	0.6+
1991 04 10	809	1.0−	1.2−	2000 03 03	120	1.6−	0.6−	2000 04 06	704	0.1+	0.1−
1991 04 10	809	1.0−	1.5−	2000 03 03	120	1.8−	0.5−	2000 04 06	699	0.2−	0.1+
1998 08 31	704	0.2+	0.2−	2000 03 03	120	0.5−	0.9−	2000 04 06	704	0.1+	0.0
1998 08 31	704	1.1+	1.0−	2000 03 03	120	1.1−	1.1−	2000 04 06	699	0.5+	0.6+
1998 08 31	704	(2.1+	2.3−)	2000 03 05	120	0.5−	0.5−	2000 04 06	699	0.0	0.3−
1998 08 31	704	(2.2−	2.7−)	2000 03 05	120	0.7−	0.2−	2000 04 06	704	0.2+	0.3−
1998 11 14	704	0.4−	0.2+	2000 03 09	704	0.1+	0.6+	2000 04 06	699	0.4+	0.5+
1998 11 14	704	0.9−	0.2+	2000 03 09	704	0.3+	1.9+	2000 04 06	699	0.4+	0.0
1998 11 14	704	1.2+	0.7+	2000 03 09	704	0.1−	0.2−	2000 04 06	704	0.2+	0.2−
1998 11 14	704	1.0−	1.1−	2000 03 09	704	0.5+	1.5+	2000 04 07	704	0.1−	0.2+
1998 11 16	704	0.0	0.1+	2000 03 09	704	0.1+	1.6+	2000 04 07	704	0.3+	0.1−
1998 11 16	704	(3.6+	0.5+)	2000 03 10	704	0.2+	0.1−	2000 04 07	704	0.3+	0.4+
1998 11 16	704	1.1−	1.0+	2000 03 10	704	0.1−	0.5−	2000 04 07	704	0.4−	0.2−
1998 11 16	704	0.7+	0.5+	2000 03 10	704	0.2+	0.0	2000 04 08	704	0.8+	0.4+
1998 11 16	704	0.1+	0.5+	2000 03 10	704	0.4+	1.2+	2000 04 08	704	0.7+	0.3−
1998 12 14	704	0.3−	0.7−	2000 03 10	704	0.6+	0.5+	2000 04 08	704	0.6+	1.4−
1998 12 14	704	0.1−	0.4−	2000 03 29	691	0.1+	0.1−	2000 04 08	704	0.8+	0.1+
1998 12 14	704	0.6−	0.5+	2000 03 29	691	0.0	0.1−	2000 04 08	704	0.7−	0.1+
1998 12 14	704	0.7+	0.5+	2000 03 29	691	0.0	0.1−	2000 04 10	704	0.4+	0.3−
1998 12 14	704	0.1−	1.1+	2000 04 03	688	0.3+	0.4+	2000 04 10	704	1.0+	0.1+
1999 01 14	699	0.2+	0.2+	2000 04 03	688	0.3+	0.6+	2000 04 10	704	0.9+	0.1−
1999 01 14	699	0.5−	0.3−	2000 04 05	691	0.2−	0.3−	2000 04 10	704	0.7+	1.1+
1999 01 14	699	0.0	0.4−	2000 04 05	704	0.6+	0.0	2000 04 10	704	0.8+	0.1−
1999 02 06	704	0.9+	0.6−	2000 04 05	691	0.2−	0.5−	2000 04 11	691	0.2−	0.5−
1999 02 06	704	0.6+	0.4−	2000 04 05	704	0.4+	0.0	2000 04 11	691	0.2−	0.6−
1999 02 06	704	0.4+	0.1+	2000 04 05	691	0.2−	0.3−	2000 04 11	691	0.2−	0.6−
1999 02 06	704	1.4−	0.7+	2000 04 05	704	0.2+	0.1−				

2000 DF₂₂ = 1997 GT₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	97.31925	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.28893504	ω	302.54042	+0.76715327	−0.64122225
<i>a</i>	2.2660487	Ω	97.34888	+0.59432341	+0.70018242
<i>e</i>	0.0787151	<i>i</i>	1.01703	+0.24136185	+0.31397231
<i>P</i>	3.41	<i>H</i>	15.9	<i>G</i>	0.15

Residuals in seconds of arc

1997 04 03	704	0.2−	0.2−	2000 02 11	704	0.3−	0.7−	2000 03 02	691	0.1−	0.1−
1997 04 03	704	0.4−	1.4+	2000 02 11	704	0.1−	0.6+	2000 03 03	704	0.3−	0.2−
1997 04 07	704	0.3−	1.4−	2000 02 29	704	0.6+	0.3+	2000 03 03	704	0.7+	0.5+
1997 04 07	704	0.8+	0.1+	2000 02 29	704	0.4+	0.1−	2000 03 03	704	0.5−	0.1−
2000 02 07	691	0.0	0.1−	2000 02 29	704	0.8+	0.9+	2000 03 03	704	0.4−	0.5+
2000 02 07	691	0.2+	0.2−	2000 02 29	704	0.0	0.2+	2000 03 03	704	0.1−	0.2−
2000 02 07	691	0.2+	0.2−	2000 03 02	691	0.0	0.0				
2000 02 11	704	0.6−	0.9−	2000 03 02	691	0.3−	0.2−				

2000 DJ₂₄ = 1997 GP₁₄ = 1998 QH₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.30408	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.28620321	ω	46.67380	+0.86181067	−0.50647911
<i>a</i>	2.2804456	Ω	343.69385	+0.43229347	+0.76185711
<i>e</i>	0.1301472	<i>i</i>	5.63954	+0.26533887	+0.40379778
<i>P</i>	3.44	<i>H</i>	15.0	<i>G</i>	0.15

Residuals in seconds of arc

1997 04 03	704	0.4−	0.1+	1998 08 23	704	0.1−	1.6−	2000 02 11	704	0.3−	0.1−
1997 04 03	704	0.5+	0.2+	1998 08 23	704	1.8+	0.7−	2000 02 11	704	0.4−	0.5−
1997 04 06	704	0.9−	0.2+	1998 08 23	704	0.3−	0.1−	2000 02 11	704	0.5+	0.3−
1997 04 06	704	0.6−	0.8+	1998 08 23	704	1.6+	0.9+	2000 02 29	704	0.1+	0.3+
1997 04 07	704	0.4+	0.2+	2000 01 07	704	0.1+	0.5+	2000 02 29	704	0.0	0.3+
1997 04 07	704	1.1+	0.2−	2000 01 07	704	0.6+	0.5−	2000 02 29	704	0.2+	0.6+
1997 04 07	704	0.1−	0.1+	2000 01 07	704	0.2−	0.1+	2000 02 29	704	0.0	0.4+
1997 04 07	704	0.1+	1.6−	2000 01 07	704	0.0	0.1−	2000 02 29	704	0.2−	0.7+
1998 07 31	699	0.4+	0.6−	2000 01 07	704	1.1−	0.3−	2000 03 03	704	0.3−	0.4−
1998 07 31	699	0.2+	0.4−	2000 02 03	704	0.5+	0.6−	2000 03 03	704	0.5+	0.8−
1998 07 31	699	0.7+	0.6+	2000 02 03	704	0.4+	0.4+	2000 03 03	704	0.3+	0.2−
1998 08 17	704	0.4−	0.4+	2000 02 03	704	0.3−	0.1−	2000 03 03	704	0.9+	0.7−
1998 08 17	704	1.2−	0.9+	2000 02 03	704	0.5+	0.5+	2000 03 03	704	1.0+	1.0−
1998 08 17	704	0.1+	1.3+	2000 02 03	704	1.0+	0.6+	2000 03 11	704	0.3−	0.3−
1998 08 17	704	1.1−	0.0	2000 02 06	703	0.1−	0.1+	2000 03 11	704	0.7−	0.1−
1998 08 17	704	0.8−	1.2+	2000 02 06	703	0.4−	0.1−	2000 03 11	704	0.7−	1.0+
1998 08 19	566	0.3+	0.4−	2000 02 06	703	0.1+	0.5−	2000 03 11	704	0.5−	1.0+
1998 08 19	566	0.9−	0.0	2000 02 06	703	0.1−	0.1−	2000 03 11	704	0.6−	0.5+
1998 08 19	566	0.3−	1.0−	2000 02 11	704	0.6+	0.0				
1998 08 23	704	(1.5+	2.4−)	2000 02 11	704	1.3−	0.2−				

2000 DA₂₇ = 1993 BH₁₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	101.32446	(2000.0)	<i>P</i>	Williams	<i>Q</i>
<i>n</i>	0.28795791	ω	61.39744	+0.87377463	−0.48443243
<i>a</i>	2.2711721	Ω	327.52397	+0.41360449	+0.78664528
<i>e</i>	0.2021059	<i>i</i>	4.58598	+0.25583046	+0.38277204
<i>P</i>	3.42	<i>H</i>	14.1	<i>G</i>	0.15

Residuals in seconds of arc

1993 01 21	691	0.2−	0.5−	2000 01 07	704	1.9+	0.0	2000 02 25	703	0.7−	0.8+
1993 01 21	691	0.1+	0.5−	2000 01 07	704	0.6+	0.4+	2000 02 29	704	0.1+	0.1−
1993 01 21	691	0.3+	0.6−	2000 01 07	704	0.6−	0.5+	2000 02 29	704	0.1+	0.1−
1993 01 31	691	0.8−	0.8−	2000 01 13	699	1.0+	0.2+	2000 02 29	704	0.4+	0.1−
1993 01 31	691	0.7−	1.0−	2000 01 13	699	0.5+	0.8+	2000 02 29	704	0.1+	0.2−
1998 07 20	566	0.3−	0.1+	2000 01 13	699	1.1+	0.4+	2000 02 29	704	0.1+	0.4−
1998 07 20	566	0.1+	0.3+	2000 02 02	703	0.1−	0.1−	2000 03 03	704	0.1−	0.2+

2000 APR. 18

1998 07 20	566	0.0	0.2+	2000 02 02	703	0.4+	0.2+	2000 03 03	704	0.6−	0.4+
1999 11 16	704	1.6−	0.6−	2000 02 02	703	0.2−	0.1−	2000 03 03	704	0.1−	0.4+
1999 11 16	704	0.3−	0.3−	2000 02 02	703	0.7−	0.0	2000 03 03	704	0.2+	0.4+
1999 11 16	704	0.6+	0.4+	2000 02 04	704	0.1+	0.4−	2000 03 03	704	0.3+	0.4+
1999 11 16	704	1.3+	0.8−	2000 02 04	704	0.3+	0.2+	2000 03 05	704	0.3+	0.0
1999 11 17	703	0.8−	0.7−	2000 02 04	704	0.1+	0.1−	2000 03 05	704	0.1−	0.0
1999 11 17	703	1.2+	1.5+	2000 02 04	704	0.1−	0.2+	2000 03 05	704	0.2−	0.1+
1999 11 17	703	0.3+	1.6+	2000 02 04	704	0.6−	0.6+	2000 03 05	704	0.3−	0.2+
1999 11 17	703	0.8+	0.6+	2000 02 12	704	(1.9−	5.0+)	2000 03 05	704	0.1−	0.1+
1999 12 05	703	0.0	0.0	2000 02 12	704	(0.2+	4.2+)	2000 03 11	704	0.6+	0.0
1999 12 05	703	0.4+	0.2+	2000 02 12	704	(1.5−	2.7+)	2000 03 11	704	0.3+	0.3−
1999 12 05	703	1.3+	0.1+	2000 02 12	704	(0.8+	4.2+)	2000 03 11	704	0.4+	0.4−
1999 12 05	703	0.4−	0.9+	2000 02 13	704	(0.2+	4.4−)	2000 03 11	704	0.2+	0.3−
1999 12 06	704	0.5−	0.3−	2000 02 13	704	0.3+	0.9+	2000 03 11	704	0.4+	0.5−
1999 12 06	704	0.1+	0.4−	2000 02 13	704	(2.6+	3.0+)	2000 04 02	699	1.0−	0.1+
1999 12 06	704	0.3−	0.0	2000 02 25	703	0.4−	0.4−	2000 04 02	699	0.5−	0.8−
1999 12 06	704	0.3−	0.1+	2000 02 25	703	0.4−	0.0	2000 04 02	699	(2.4−	0.6−)
1999 12 06	704	0.4−	0.1−	2000 02 25	703	0.9−	0.4+	2000 04 02	699	0.2−	1.4−

2000 DQ₂₇ = 1995 YC₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	0.50027	(2000.0)	
<i>n</i>	0.25751416	ω	306.06728
<i>a</i>	2.4468197	Ω	205.66696
<i>e</i>	0.1412308	<i>i</i>	2.30563
<i>P</i>	3.83	<i>H</i>	16.8
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1995 12 18	691	0.0	0.6+	2000 02 29	704	0.6−	0.5−	2000 03 05	704	0.0	0.8+
1995 12 18	691	0.2−	0.2−	2000 02 29	704	0.6−	0.2−	2000 03 05	704	0.3+	1.1+
1995 12 18	691	0.3−	0.2−	2000 02 29	704	0.2+	0.1+	2000 03 29	691	0.5−	0.1+
1995 12 30	691	1.1+	0.8−	2000 03 03	704	0.3+	0.1−	2000 03 29	691	0.6−	0.3−
1995 12 30	691	0.1−	0.3+	2000 03 03	704	0.2−	0.0	2000 03 29	691	0.7−	0.1−
1995 12 30	691	0.5−	0.3+	2000 03 03	704	0.3+	0.7+	2000 04 06	691	0.3+	0.0
2000 02 29	704	0.1+	0.4−	2000 03 03	704	1.3+	0.7−	2000 04 06	691	0.5+	0.1+
2000 02 29	704	0.2−	0.2−	2000 03 05	704	0.1−	0.1−	2000 04 06	691	0.2+	0.2−

2000 DF₂₈ = 1997 GO₃₄

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	236.45356	(2000.0)	
<i>n</i>	0.29263913	ω	168.77071
<i>a</i>	2.2468864	Ω	120.73399
<i>e</i>	0.1705199	<i>i</i>	1.09442
<i>P</i>	3.37	<i>H</i>	15.9
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1997 04 03	704	0.9+	0.4−	2000 02 29	704	0.7+	0.3+	2000 03 05	704	0.2−	0.3+
1997 04 03	704	1.3+	1.0+	2000 02 29	704	0.4−	0.3+	2000 03 05	704	0.0	0.6+
1997 04 04	566	1.0−	0.1+	2000 02 29	704	0.4−	0.5−	2000 03 05	704	0.9−	0.9−
1997 04 04	566	1.2−	0.0	2000 03 03	704	0.1+	0.6−	2000 03 09	704	0.6+	0.3−
1997 04 04	566	0.2+	0.1−	2000 03 03	704	0.3+	0.5−	2000 03 09	704	1.0+	0.7+
1997 04 11	704	0.7−	1.0+	2000 03 03	704	0.1+	0.4−	2000 03 09	704	0.1−	0.5+
1997 04 11	704	1.0+	0.8−	2000 03 03	704	0.7−	1.1−	2000 03 11	704	1.0+	0.7−
1998 09 29	910	0.4+	0.3+	2000 03 04	691	0.5−	0.1−	2000 03 11	704	0.5+	0.6−
1998 09 29	910	0.1−	0.3+	2000 03 04	691	0.6−	0.2+	2000 03 11	704	(2.2+	0.5−)
1998 09 29	910	0.5−	0.2+	2000 03 04	691	0.6−	0.0	2000 03 12	691	0.2−	0.3−
2000 02 29	704	0.8−	0.4+	2000 03 05	704	1.0+	0.5+	2000 03 12	691	0.2−	0.4−
2000 02 29	704	0.4+	1.3+	2000 03 05	704	0.2+	1.3+	2000 03 12	691	0.3−	0.3−

2000 DO₂₈ = 4507 P-L

Id. M. E. Sansaturio

M.P.C. 40115

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	35.70122	(2000.0)	
<i>n</i>	0.25823009	ω	93.95778
<i>a</i>	2.4422952	Ω	12.41018
<i>e</i>	0.1346144	<i>i</i>	1.47110
<i>P</i>	3.82	<i>H</i>	16.0
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	5

1960 09 24	675	0.9−	0.2−	2000 02 25	703	0.4+	0.4+	2000 03 05	704	0.3−	0.4−
1960 09 24	675	0.3−	0.2+	2000 02 29	704	1.6+	0.3−	2000 03 11	704	0.1−	0.1+
1960 09 26	675	0.1−	0.0	2000 02 29	704	0.4−	0.1+	2000 03 11	704	0.4−	0.1−
1960 09 26	675	0.1+	1.0−	2000 02 29	704	0.6+	0.0	2000 03 11	704	0.9+	1.3+
1960 09 28	675	0.9+	0.6−	2000 02 29	704	0.4+	0.2−	2000 03 11	704	0.2+	0.0
1960 09 28	675	0.4+	1.1+	2000 02 29	704	0.7+	0.8−	2000 03 11	699	0.5−	0.1−
2000 02 04	704	0.4−	0.1−	2000 03 03	704	0.2−	0.1−	2000 03 11	699	0.3−	0.1−
2000 02 04	704	0.0	0.5+	2000 03 03	704	0.1+	0.1−	2000 03 11	699	0.2−	0.4−
2000 02 04	704	0.7+	1.3+	2000 03 03	704	0.3−	0.2−	2000 03 11	699	1.2−	0.2+
2000 02 04	704	0.5−	0.2−	2000 03 03	704	0.0	0.2−	2000 03 12	691	0.3+	0.5−
2000 02 04	704	0.6+	0.4−	2000 03 03	704	0.2−	0.1−	2000 03 12	691	0.0	0.5−
2000 02 25	703	0.0	0.3−	2000 03 05	704	0.5−	0.1+	2000 03 12	691	0.0	0.5−
2000 02 25	703	0.7−	0.6+	2000 03 05	704	0.1+	0.2+				
2000 02 25	703	0.6−	0.8+	2000 03 05	704	0.1+	0.4−				

2000 DK₂₉ = 1998 WF₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	194.07645	(2000.0)	
<i>n</i>	0.21383278	ω	341.68564
<i>a</i>	2.7696179	Ω	338.02625
<i>e</i>	0.0628885	<i>i</i>	4.30175
<i>P</i>	4.61	<i>H</i>	14.0
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1998 11 21	704	0.9−	1.0+	2000 02 11	704	0.9+	0.3−	2000 03 05	704	0.2+	0.9+
1998 11 21	704	0.2+	0.1+	2000 02 11	704	1.3−	0.6+	2000 03 05	704	0.7+	0.6−
1998 11 21	704	0.4+	1.0+	2000 02 29	704	0.7+	0.0	2000 03 05	608	0.2+	0.9−
1998 11 21	704	(2.8−	0.8−)	2000 02 29	704	0.6−	0.0	2000 03 05	608	0.0	1.4−
1998 11 24	704	0.7+	0.9+	2000 02 29	704	0.2+	0.6−	2000 03 05	608	0.0	1.1−
1998 11 24	704	0.2+	0.0	2000 02 29	704	0.4+	0.2−	2000 03 11	704	0.6+	0.2+
1998 11 24	704	0.5+	0.2+	2000 02 29	704	0.0	0.4−	2000 03 11	704	0.1−	1.0+
1998 11 24	704	0.8−	0.4+	2000 03 03	704	0.0	0.3+	2000 03 11	704	0.6−	0.6+
1998 12 14	704	0.7−	0.9−	2000 03 03	704	0.0	0.2+	2000 03 11	704	0.6+	0.2+
1998 12 14	704	0.3−	0.6−	2000 03 03	704	0.3−	0.3+	2000 03 11	704	0.3−	0.7+
1998 12 14	704	0.1−	0.1+	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.4−	1.0−
1998 12 14	704	0.8+	0.3−	2000 03 03	704	0.1−	0.2−	2000 03 11	699	0.3−	0.8−
2000 02 11	704	0.1−	0.0	2000 03 05	704	0.1+	0.2+	2000 03 11	699	0.3+	0.7−
2000 02 11	704	0.2+	0.4+	2000 03 05	704	0.5+	0.3+	2000 03 11	699	0.7−	0.2−
2000 02 11	704	0.3−	0.4+	2000 03 05	704	0.6−	1.9+				

2000 DS₂₉ = 1998 XC₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	276.69669	(2000.0)	
<i>n</i>	0.28072543	ω	258.47682
<i>a</i>	2.3100154	Ω	25.06918
<i>e</i>	0.1503584	<i>i</i>	2.43925
<i>P</i>	3.51	<i>H</i>	14.9
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1997 08 02	566	0.5+	0.0	2000 03 10	704	0.2−	0.1+	2000 04 06	704	0.0	0.1+
1997 08 02	566	0.2−	0.0	2000 03 11	120	1.9−	0.6−	2000 04 06	691	0.4−	0.4−
1997 08 02	566	0.0	0.0	2000 03 11	120	0.0	1.1−	2000 04 06	699	0.3−	0.4−
1997 08 02	566	0.1+	0.4−	2000 03 11	120	1.9−	0.3+	2000 04 06	704	0.3−	0.3+
1997 08 02	566	0.2+	0.2−	2000 03 30	691	0.3−	0.5−	2000 04 06	704	0.0	0.6+
1997 08 02	566	0.7−	0.9−	2000 03 30	691	0.2−	0.4−	2000 04 06	691	0.4−	0.5−
1997 08 02	566	0.1+	0.3+	2000 03 30	691	0.1−	0.4−	2000 04 06	699	0.8−	0.6−
1997 08 02	566	0.0	0.3−	2000 04 02	691	0.2−	0.5−	2000 04 06	704	0.1−	0.3+

1997 08 02	566	0.2+	0.3+	2000 04 02	691	0.1−	0.3−	2000 04 06	699	0.0	1.1−
1998 12 14	704	0.8+	0.7−	2000 04 02	691	0.1+	0.6−	2000 04 06	704	0.1−	0.8+
1998 12 14	704	0.1−	0.3−	2000 04 02	699	0.6+	0.7+	2000 04 07	704	0.5+	0.3+
1998 12 14	704	0.0	0.1+	2000 04 02	699	0.2+	0.5+	2000 04 07	704	0.3+	0.2+
1998 12 14	704	0.0	1.1+	2000 04 02	699	0.2+	0.4+	2000 04 07	704	0.2+	0.3+
1998 12 17	704	0.8−	1.0−	2000 04 02	699	0.6+	0.4+	2000 04 07	704	0.6−	0.3+
1998 12 17	704	0.6−	0.3+	2000 04 03	688	0.2+	0.2−	2000 04 07	704	0.5+	0.0
1998 12 17	704	0.7+	0.4−	2000 04 03	688	0.1−	0.2−	2000 04 10	704	0.0	0.2+
2000 02 29	120	0.3+	0.4−	2000 04 05	704	0.1−	0.2+	2000 04 10	704	0.1+	0.0
2000 02 29	120	0.0	0.1+	2000 04 05	704	0.2−	0.2+	2000 04 10	704	0.4+	0.2+
2000 03 04	703	0.3−	0.7−	2000 04 05	704	0.0	0.4+	2000 04 10	704	0.0	0.7+
2000 03 04	703	0.0	0.2+	2000 04 05	704	0.2−	0.4+	2000 04 10	704	0.3+	0.4+
2000 03 04	703	0.5+	1.0+	2000 04 05	704	0.1−	0.5+	2000 04 10	704	0.4+	0.5−
2000 03 04	703	0.7+	0.3−	2000 04 06	704	0.0	0.1−	2000 04 10	704	0.2+	0.2+
2000 03 06	120	1.2+	0.8−	2000 04 06	704	0.0	0.3−	2000 04 10	704	0.5+	0.2+
2000 03 06	120	0.3+	1.2−	2000 04 06	704	0.2−	0.4+	2000 04 10	704	0.4+	0.3−
2000 03 07	120	0.1−	0.8+	2000 04 06	704	0.2+	0.4+	2000 04 10	704	0.2+	0.3+
2000 03 10	704	0.3+	0.4−	2000 04 06	704	0.1−	0.3+	2000 04 10	704	0.0	0.5+
2000 03 10	704	0.1+	0.1+	2000 04 06	691	0.4−	0.4−	2000 04 10	704	0.1+	0.6−
2000 03 10	704	0.2+	0.1−	2000 04 06	699	0.6−	0.3−	2000 04 10	704	(2.2+	1.2−)

2000 DQ₃₁ = 1994 BD₂ = 1997 SD₃₀
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5				Williams	
M	237.85673		(2000.0)	P	Q
n	0.18187565	ω	359.66768	+0.33188179	+0.94309735
a	3.0852214	Ω	289.71528	−0.86542974	+0.29574204
e	0.1684676	i	1.25020	−0.37534764	+0.15200010
P	5.42	H	14.4	G 0.15	U 3

Residuals in seconds of arc

1992 11 25	691	0.1−	0.0	1997 10 11	691	0.2−	0.2+	2000 03 06	608	0.6−	0.1+
1992 11 25	691	0.2−	0.4+	1997 10 11	691	0.1−	0.2+	2000 03 11	699	0.2−	1.5+
1992 11 25	691	0.1−	0.2+	1997 10 31	910	0.9+	0.1+	2000 03 11	699	0.1−	1.1+
1994 01 18	691	0.2−	0.6−	1997 10 31	910	0.5+	0.1+	2000 03 11	699	0.3−	0.8+
1994 01 18	691	0.0	0.3−	1997 10 31	910	0.4+	0.4+	2000 03 11	699	0.3−	0.3+
1994 01 18	691	0.7+	0.6−	2000 02 29	704	0.8+	1.0−	2000 03 30	691	0.5−	0.2−
1994 01 19	691	0.2−	0.4−	2000 02 29	704	0.5−	0.3−	2000 03 30	691	0.3−	0.4−
1994 01 19	691	0.2−	0.1−	2000 02 29	704	1.6+	0.6−	2000 03 30	691	0.1−	0.1−
1994 01 19	691	0.1−	0.2−	2000 02 29	704	1.0+	0.3−	2000 03 31	691	1.0−	0.5−
1997 09 30	691	0.0	0.0	2000 03 03	704	0.8+	0.6+	2000 03 31	691	0.9−	0.1−
1997 09 30	691	0.0	0.0	2000 03 03	704	0.1+	0.5+	2000 03 31	691	0.6−	0.5−
1997 09 30	691	0.3+	0.0	2000 03 03	704	0.5+	0.3+	2000 04 08	691	0.2+	0.4−
1997 10 06	691	0.6−	0.2+	2000 03 03	704	0.1+	0.5+	2000 04 08	691	0.3+	0.3−
1997 10 06	691	0.6−	0.2−	2000 03 03	704	0.7+	0.2+	2000 04 08	691	0.2+	0.2−
1997 10 06	691	0.4−	0.4−	2000 03 06	608	0.4−	0.4+				
1997 10 11	691	0.1−	0.1−	2000 03 06	608	0.3−	0.1+				

2000 DZ₃₃ = 1998 UG₄₂
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5				Williams	
M	112.14751		(2000.0)	P	Q
n	0.21688815	ω	201.73820	+0.92461222	−0.38090953
a	2.7435455	Ω	180.65229	+0.35475205	+0.86152371
e	0.2042332	i	2.14142	+0.13871998	+0.33568561
P	4.54	H	15.3	G 0.15	U 4

Residuals in seconds of arc

1998 10 28	704	0.4+	0.1−	2000 02 02	691	0.3−	0.3−	2000 03 03	704	0.1−	0.5+
1998 10 28	704	0.2+	0.6+	2000 02 02	691	0.5−	0.4−	2000 03 25	691	0.1+	0.1+
1998 10 28	704	0.5+	0.7+	2000 02 29	704	0.0	0.2−	2000 03 25	691	0.0	0.4−
1998 10 28	704	0.5−	0.6+	2000 02 29	704	0.4+	0.4+	2000 03 25	691	0.0	0.2+
1998 10 29	704	0.0	0.8+	2000 02 29	704	0.7+	0.5−	2000 03 30	691	0.7−	0.0
1998 10 29	704	0.1−	0.8−	2000 02 29	704	1.2+	0.7+	2000 03 30	691	0.4−	0.0
1998 10 29	704	0.7−	0.7+	2000 03 03	704	0.1+	0.1−	2000 03 30	691	0.7−	0.3+
1998 10 29	704	0.6+	1.0−	2000 03 03	704	0.1−	0.3+	2000 04 08	691	0.1+	0.3−
1998 10 29	704	0.4−	1.5−	2000 03 03	704	0.5+	0.7+	2000 04 08	691	0.0	0.3−
2000 02 02	691	0.6−	0.3−	2000 03 03	704	0.2−	0.2−	2000 04 08	691	0.3+	0.3−

2000 DU₃₅ = 1998 SQ₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	113.91932		(2000.0)		P		Q
n	0.25982857	ω	220.98790		+0.87977221		−0.47538877
a	2.4322681	Ω	167.39605		+0.43912894		+0.81061170
e	0.1271925	i	0.66271		+0.18211708		+0.34192717
P	3.79	H	15.3	G	0.15	U	4

Residuals in seconds of arc

1998 09 14	704	0.2−	1.0−	1998 09 26	704	0.7+	1.4−	2000 02 29	704	0.6−	0.3−
1998 09 14	704	1.4+	0.8−	1998 09 26	704	0.0	0.1−	2000 02 29	704	0.3+	0.1−
1998 09 14	704	1.0+	0.4+	1998 09 26	704	0.1+	0.7−	2000 02 29	704	0.5+	0.4+
1998 09 15	691	0.1+	0.2+	1998 09 26	704	0.5−	0.8−	2000 02 29	704	0.1+	0.4−
1998 09 15	691	0.1+	0.0	1998 09 26	704	0.6−	0.5+	2000 02 29	704	0.0	0.1+
1998 09 15	691	0.0	0.0	1998 09 27	704	0.5+	0.0	2000 03 03	704	0.1+	0.2−
1998 09 16	699	0.1−	0.4+	1998 09 27	704	0.7+	0.7+	2000 03 03	704	0.1−	0.4+
1998 09 16	699	0.2+	0.4+	1998 09 27	704	0.2+	0.7+	2000 03 03	704	0.4−	0.2+
1998 09 16	699	0.5−	0.8+	1998 09 27	704	0.6+	1.3+	2000 03 03	704	0.4+	0.5+
1998 09 18	704	0.1−	1.5−	1998 09 27	704	0.2+	0.8+	2000 03 03	704	0.2+	0.3+
1998 09 18	704	0.4−	1.0+	2000 02 04	704	0.8−	0.3+	2000 03 11	699	0.1−	0.3−
1998 09 18	704	0.9−	0.2+	2000 02 04	704	0.2+	0.0	2000 03 11	699	0.9−	0.1−
1998 09 18	704	0.4+	1.2−	2000 02 04	704	0.6+	0.8+	2000 03 11	699	0.2−	0.2−
1998 09 18	704	1.0−	1.0−	2000 02 25	703	0.1+	0.8−	2000 03 11	699	0.6−	0.4+
1998 09 25	699	0.4−	0.2−	2000 02 25	703	0.5+	0.0	2000 04 03	691	0.2−	0.9−
1998 09 25	699	0.5−	0.4+	2000 02 25	703	0.3−	0.0	2000 04 03	691	0.1−	0.6−
1998 09 25	699	0.7−	0.1−	2000 02 25	703	0.9+	0.1+	2000 04 03	691	0.0	0.7−

2000 DV₃₅ = 1995 DZ₉

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	139.94505		(2000.0)		P		Q
n	0.19032912	ω	84.77721		+0.98849995		−0.15111467
a	2.9931781	Ω	283.91423		+0.13632386		+0.90673409
e	0.0868652	i	0.33499		+0.06544964		+0.39369742
P	5.18	H	14.7	G	0.15	U	5

Residuals in seconds of arc

1995 02 25	691	0.1−	0.5−	2000 02 04	691	0.2−	0.4−	2000 03 03	704	0.1+	0.7+
1995 02 25	691	0.0	0.2−	2000 02 04	691	0.1−	0.2−	2000 03 03	704	1.2+	0.1−
1995 02 25	691	0.5−	0.3+	2000 02 29	704	0.6−	0.6+	2000 03 11	704	1.8+	0.6−
1995 03 02	691	0.2−	0.5−	2000 02 29	704	0.8−	0.6+	2000 03 11	704	0.6−	0.8+
1995 03 02	691	0.3+	1.0+	2000 02 29	704	0.4−	0.3+	2000 03 11	704	0.0	1.2+
1995 03 02	691	0.4+	0.5−	2000 02 29	704	0.6−	0.8−	2000 03 11	704	1.0+	0.7+
2000 01 12	691	0.3−	0.1−	2000 02 29	704	0.1+	1.3−	2000 04 08	691	0.1+	0.5−
2000 01 12	691	0.0	0.0	2000 03 03	704	0.3−	0.1−	2000 04 08	691	0.0	0.5−
2000 01 12	691	0.2−	0.2−	2000 03 03	704	0.3−	0.2+	2000 04 08	691	0.1+	0.6−
2000 02 04	691	0.3−	0.1−	2000 03 03	704	0.2+	0.7+				

2000 DZ₃₅ = 1997 SN₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	181.82220		(2000.0)		P		Q
n	0.18869033	ω	158.53503	+0.89239210		+0.45125758	
a	3.0104838	Ω	174.63963	−0.41664371		+0.82538524	
e	0.0800539	i	1.04933	−0.17333305		+0.33927245	
P	5.22	H	15.0	G	0.15	U	4

Residuals in seconds of arc

2000 APR. 18

2000 02 03	691	0.1−	0.6−	2000 03 11	699	0.1−	0.2−	2000 04 08	691	0.2−	0.0
2000 02 29	704	0.5+	0.9+	2000 03 11	699	0.5+	0.6−	2000 04 08	691	0.0	0.3+

2000 DS₃₉ = 1998 XY₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	130.10681		(2000.0)	P		Q	
<i>n</i>	0.18238682	ω	194.07042	+0.97621448		−0.21679321	
<i>a</i>	3.0794542	Ω	178.44404	+0.20661260		+0.92683306	
<i>e</i>	0.1794829	<i>i</i>	5.16994	+0.06570019		+0.30656352	
<i>P</i>	5.40	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	1.6+	0.5+	2000 02 29	704	0.5−	0.7−	2000 03 09	704	0.1−	0.3−
1998 12 15	704	(2.8−	0.4+)	2000 02 29	704	0.1+	1.0+	2000 03 09	704	1.1+	0.9+
1998 12 15	704	0.1+	1.1+	2000 02 29	704	0.3−	0.2+	2000 03 09	704	0.0	0.5−
1998 12 15	704	1.7−	1.1+	2000 02 29	704	1.0+	0.9+	2000 03 11	699	0.5−	0.8−
1998 12 16	704	0.3−	0.4−	2000 03 03	704	0.3+	0.5−	2000 03 11	699	0.5−	0.4−
1998 12 16	704	0.5+	0.0	2000 03 03	704	0.2+	0.0	2000 03 11	699	0.9−	0.1+
1998 12 16	704	0.2−	1.0−	2000 03 03	704	0.5+	0.4−	2000 03 11	699	0.9−	1.2+
1998 12 16	704	0.1−	1.3−	2000 03 03	704	0.1+	0.6+	2000 04 05	688	0.0	0.3−
2000 02 29	704	0.2−	1.2−	2000 03 09	704	0.0	0.3+	2000 04 05	688	0.5+	0.2−

2000 DP₄₅ = 1993 TP₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	119.48967		(2000.0)	P		Q	
<i>n</i>	0.21144164	ω	186.16672	+0.85176031		−0.52379643	
<i>a</i>	2.7904594	Ω	205.43157	+0.48187452		+0.79210382	
<i>e</i>	0.0692803	<i>i</i>	1.58833	+0.20567286		+0.31338290	
<i>P</i>	4.66	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 10	809	0.5+	0.7+	2000 02 28	691	0.7−	0.9−	2000 03 11	704	0.0	0.0
1993 10 10	809	0.3+	0.3−	2000 02 28	691	0.6−	1.0−	2000 03 11	704	0.6+	0.1−
1993 10 10	809	1.6−	0.5−	2000 02 28	691	0.5−	1.0−	2000 03 11	704	0.4−	0.4−
1993 10 22	809	1.2+	1.7−	2000 02 29	704	0.4−	0.3−	2000 03 27	699	0.0	0.1+
1993 10 22	809	1.0+	1.8−	2000 02 29	704	0.3+	0.5−	2000 03 27	699	0.5+	0.7−
1993 10 22	809	(0.9−	2.4−)	2000 02 29	704	0.4+	0.3−	2000 03 27	699	0.2+	0.1−
1998 12 16	910	0.3+	0.9+	2000 02 29	704	0.4+	0.0	2000 03 27	699	0.7+	0.3+
1998 12 16	910	0.6−	0.6+	2000 03 03	704	1.2−	1.1+	2000 04 04	699	0.9−	0.6−
1998 12 16	910	0.2−	0.6+	2000 03 03	704	0.3+	0.3−	2000 04 04	699	1.6−	0.4+
2000 02 02	704	0.5+	1.1+	2000 03 03	704	0.4−	0.0	2000 04 04	699	0.7−	0.5−
2000 02 02	704	0.2+	0.5+	2000 03 03	704	0.2+	0.2+	2000 04 04	699	0.2−	1.0−
2000 02 02	704	0.6+	0.2−	2000 03 11	704	0.5+	0.6−				
2000 02 02	704	1.0+	1.7+	2000 03 11	704	0.2+	0.1+				

2000 DA₄₇ = 1989 GX

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	260.77270		(2000.0)	P		Q	
<i>n</i>	0.26188501	ω	73.58775	+0.17780751		+0.98397728	
<i>a</i>	2.4195186	Ω	206.66511	−0.91368308		+0.16010877	
<i>e</i>	0.2092340	<i>i</i>	1.68048	−0.36546918		+0.07844676	
<i>P</i>	3.76	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1989 04 05	809	(0.0	3.3+)	2000 02 06	704	0.6+	0.2+	2000 03 11	699	0.5+	0.1−
1989 04 05	809	1.3+	1.6+	2000 02 06	704	0.5+	0.2−	2000 03 11	699	0.8+	0.2+
1989 04 05	809	(2.4+	2.6+)	2000 02 29	704	0.3+	0.3−	2000 03 27	699	0.3+	0.5−
1989 04 06	809	0.6+	0.4−	2000 02 29	704	0.2+	0.7−	2000 03 27	699	0.4+	0.4+
1989 04 06	809	0.1+	0.4+	2000 02 29	704	0.3−	0.5−	2000 03 27	699	0.5−	0.1−
1989 04 06	809	0.5+	0.0	2000 02 29	704	0.1+	1.0−	2000 03 27	699	0.2+	0.5+
1989 04 07	809	0.9−	0.7−	2000 02 29	704	0.2−	1.0−	2000 04 03	704	0.0	0.1−
1989 04 07	809	0.2−	0.0	2000 03 03	704	0.4−	0.2+	2000 04 03	704	0.5+	0.7+
1989 04 07	809	0.6−	0.6+	2000 03 03	704	0.3−	0.0	2000 04 03	704	0.5+	0.1+
1989 04 08	809	1.5−	1.2−	2000 03 03	704	0.1+	0.3+	2000 04 03	704	0.3−	0.7+
1989 04 08	809	0.6+	1.6−	2000 03 03	704	0.0	0.0	2000 04 03	704	0.1+	0.9+

M.P.C. 40117

1989 04 08	809	0.6−	0.4−	2000 03 03	704	0.2−	0.0	2000 04 04	699	1.1+	0.1−
1996 02 10	691	0.0	0.6−	2000 03 11	704	0.5−	0.3+	2000 04 04	699	0.1+	0.0
1996 02 10	691	0.1+	0.6−	2000 03 11	704	0.3+	0.1+	2000 04 04	699	0.6−	1.4+
1996 02 10	691	0.3−	0.0	2000 03 11	704	0.6−	0.8+	2000 04 04	699	0.1−	0.2+
2000 01 27	691	0.4−	0.4−	2000 03 11	699	0.2−	0.1−	2000 04 08	704	0.1−	0.2−
2000 01 27	691	0.4−	0.4−	2000 03 11	704	0.2−	0.6+	2000 04 08	704	0.4+	0.5+
2000 01 27	691	0.6−	0.6−	2000 03 11	704	1.0−	0.5+	2000 04 08	704	0.4+	0.3+
2000 02 06	704	0.3+	0.3+	2000 03 11	699	0.4+	0.2−	2000 04 08	704	0.2−	0.2+

2000 DX₄₈ = 1978 RK₇ = 1997 MD

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	203.44679		(2000.0)	P		Q	
<i>n</i>	0.25337763	ω	149.25844	+0.73476553		+0.67791085	
<i>a</i>	2.4733782	Ω	167.97117	−0.64309501		+0.70724817	
<i>e</i>	0.1621833	<i>i</i>	6.49947	−0.21575084		+0.20059140	
<i>P</i>	3.89	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1978 09 02	809	0.1+	0.4−	2000 02 06	704	0.2+	0.3+	2000 03 29	691	(1.9−	2.3−)
1978 09 02	809	0.8−	0.5−	2000 02 29	704	0.1+	0.6+	2000 03 29	691	0.0	0.6−
1978 09 02	809	0.8+	0.2−	2000 02 29	704	1.2+	0.2+	2000 03 29	691	0.1+	0.5−
1978 09 02	809	0.3−	0.6−	2000 02 29	704	0.5+	0.7+	2000 03 30	691	0.2−	0.3−
1978 09 06	809	0.6+	0.2+	2000 02 29	704	0.9+	0.9+	2000 03 30	691	0.1−	0.3−
1997 04 16	704	0.1+	0.0	2000 03 03	704	0.3−	0.5+	2000 03 30	691	0.3+	0.3−
1997 04 16	704	0.5+	0.4+	2000 03 03	704	0.4−	0.0	2000 04 08	691	0.1−	0.4−
1997 06 23	599	0.1−	0.9+	2000 03 03	704	0.5−	0.3+	2000 04 08	691	0.0	0.2−
1997 06 23	599	1.1+	0.2+	2000 03 03	704	1.2−	0.6−	2000 04 08	691	0.3+	0.2−
1997 06 26	599	0.1+	0.7−	2000 03 03	704	0.1+	1.0−	2000 04 11	691	0.2+	0.6−
1997 06 26	599	1.5−	0.4−	2000 03 25	691	0.6−	0.0	2000 04 11	691	0.2−	0.5−
2000 02 06	704	(0.2+	2.4+)	2000 03 25	691	0.6−	0.1−	2000 04 11	691	0.5−	0.6−
2000 02 06	704	0.2+	0.3+	2000 03 25	691	0.4−	0.0				

2000 DW₅₁ = 1992 OG₅ = 1992 OT₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	148.54210		(2000.0)	P		Q	
<i>n</i>	0.19877241	ω	218.92042	+0.99231325		−0.12024232	
<i>a</i>	2.9078052	Ω	147.94942	+0.12278009		+0.92703913	
<i>e</i>	0.0739511	<i>i</i>	3.16089	+0.01547491		+0.35516228	
<i>P</i>	4.96	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 07 26	809	0.1+	0.3-	2000 02 11	704	0.2-	1.0+	2000 03 11	704	0.5+	0.1+
1992 07 26	809	0.3-	0.1-	2000 02 11	704	0.0	0.8+	2000 03 11	704	0.2+	0.3-
1992 07 26	809	0.0	2.0-	2000 02 11	704	0.2+	0.5+	2000 03 22	049	(2.0+	2.2-)
1992 07 26	809	0.4+	0.1-	2000 02 29	704	0.2+	0.2-	2000 03 22	049	1.1+	0.9-
1992 07 26	809	0.2+	1.1+	2000 02 29	704	0.1+	0.1-	2000 03 22	049	0.5+	0.7-
1992 07 30	809	(3.1-	1.0-)	2000 02 29	704	0.1-	0.3-	2000 03 23	049	0.7-	1.7-
1992 07 30	809	(5.8-	1.6-)	2000 02 29	704	0.3+	0.1+	2000 03 23	049	0.1-	1.4-
1992 07 30	809	(6.8-	1.0-)	2000 02 29	704	0.3+	0.0	2000 03 23	049	0.6-	1.8-
1992 07 31	809	(2.2-	2.0-)	2000 03 03	704	0.7+	0.4-	2000 04 03	699	0.4-	0.9+
1992 07 31	809	(2.8-	1.3-)	2000 03 03	704	0.5+	0.1-	2000 04 03	699	1.5-	1.1+
1992 07 31	809	(3.7-	2.4-)	2000 03 03	704	0.1+	0.1-	2000 04 03	699	0.0	0.4+
1998 12 15	704	0.3-	1.3-	2000 03 03	704	0.0	0.2-	2000 04 03	704	0.5+	0.3+
1998 12 15	704	0.1-	0.7-	2000 03 03	704	0.3+	0.4+	2000 04 03	699	0.3+	0.7+
1998 12 15	704	1.2+	0.2+	2000 03 11	704	0.2-	0.4+	2000 04 03	704	1.2-	0.2+
1998 12 15	704	0.8-	1.2+	2000 03 11	704	0.4+	0.1-	2000 04 03	704	0.2+	0.9+
2000 02 11	704	1.1-	1.2-	2000 03 11	704	0.2+	0.1+	2000 04 03	704	1.4-	0.4+

Residuals in seconds of arc

1994 06 11	691	0.3−	0.0	1998 08 17	704	0.5+	1.8+	2000 03 03	704	0.4+	0.4+
1994 06 11	691	0.1−	0.1−	1998 08 17	704	1.0−	0.7+	2000 03 03	704	0.7+	0.5+
1994 06 11	691	0.7−	0.5+	1998 08 17	704	(2.7−	3.6+)	2000 03 03	704	0.5+	0.5+
1997 04 03	704	1.3+	0.1+	2000 02 02	704	0.6+	1.3+	2000 03 03	704	0.7+	0.4+
1997 04 03	704	1.5+	1.0+	2000 02 02	704	0.6+	0.6+	2000 03 11	704	0.0	0.5−
1997 04 04	566	0.8−	0.1−	2000 02 02	704	0.3+	0.5−	2000 03 11	704	0.1−	0.7−
1997 04 04	566	1.0−	0.0	2000 02 29	704	0.4−	0.4+	2000 03 11	704	1.6−	0.9−
1997 04 04	566	0.4+	0.1−	2000 02 29	704	0.3+	0.2+	2000 03 11	704	0.2−	0.3−
1997 04 11	704	0.2+	0.2+	2000 02 29	704	0.5−	0.2+	2000 04 10	012	0.6−	0.5−
1997 04 11	704	0.5+	0.7−	2000 02 29	704	0.3+	0.4+	2000 04 10	012	0.7−	0.4−
1998 08 17	704	1.3−	0.7+	2000 02 29	704	1.1−	0.1+				
1998 08 17	704	1.2+	1.0−	2000 03 03	704	0.3+	0.3+				

2000 DV₅₅ = 1993 TC₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	225.06644	(2000.0)		P		Q	
<i>n</i>	0.22099947	<i>ω</i>	310.85133	+0.56454859		+0.82535476	
<i>a</i>	2.7094131	<i>Ω</i>	353.50233	−0.73250497		+0.49616738	
<i>e</i>	0.1135646	<i>i</i>	4.37160	−0.38042261		+0.26945770	
<i>P</i>	4.46	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	691	0.4−	0.0	2000 03 03	704	0.3−	1.1+	2000 03 06	608	1.3−	0.8−
1993 10 09	691	0.1−	0.0	2000 03 03	704	0.1+	0.2−	2000 03 11	704	0.6−	0.1+
1993 10 09	691	0.3−	0.4−	2000 03 03	704	0.2−	0.8−	2000 03 11	704	0.4+	0.3+
1993 10 10	691	0.3+	0.0	2000 03 03	704	0.2−	0.3−	2000 03 11	704	0.4−	0.1+
1993 10 10	691	0.2+	0.2+	2000 03 05	704	0.9+	0.8+	2000 03 11	704	0.0	0.3+
1993 10 10	691	0.3+	0.2+	2000 03 05	704	0.7−	0.8−	2000 03 11	704	0.1+	0.1−
2000 02 29	704	0.1+	1.0+	2000 03 05	704	0.5+	0.4+	2000 04 03	704	0.8+	0.1−
2000 02 29	704	0.3−	0.1−	2000 03 05	704	0.9+	0.2−	2000 04 03	704	0.8+	0.9+
2000 02 29	704	0.2+	0.1−	2000 03 05	704	0.4+	1.0−	2000 04 03	704	0.6−	0.4−
2000 02 29	704	0.3+	0.1+	2000 03 06	608	0.2−	0.3−	2000 04 03	704	0.9−	0.3−
2000 03 03	704	0.2+	0.5+	2000 03 06	608	0.2−	0.1−				

2000 DA₅₆ = 1998 VH₄₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	109.17171	(2000.0)		P		Q	
<i>n</i>	0.23358621	<i>ω</i>	41.68576	+0.70580474		−0.70839895	
<i>a</i>	2.6111866	<i>Ω</i>	3.42442	+0.63468142		+0.63030255	
<i>e</i>	0.0633700	<i>i</i>	3.12419	+0.31467311		+0.31763127	
<i>P</i>	4.22	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 19	699	0.0	0.6−	2000 02 11	704	0.4+	0.4+	2000 03 05	704	0.4−	0.5+
1998 10 19	699	0.4+	0.5−	2000 02 11	704	0.2+	0.6+	2000 03 05	704	0.3+	0.4+
1998 10 19	699	0.7−	0.1−	2000 02 29	704	0.1−	0.2+	2000 03 06	704	0.6+	0.1+
1998 11 11	704	(1.2+	4.8−)	2000 02 29	704	0.9−	0.3−	2000 03 06	704	0.5−	0.7+
1998 11 11	704	0.2+	0.1−	2000 02 29	704	0.4−	0.5+	2000 03 06	704	0.0	0.3−
1998 11 11	704	0.5−	0.2+	2000 02 29	704	0.7+	0.3−	2000 03 11	704	0.1−	0.5−
1998 11 11	704	0.7−	0.5+	2000 02 29	704	0.9−	1.5+	2000 03 11	704	0.3+	0.1−
1998 11 15	699	1.5+	0.5+	2000 03 03	704	0.1−	0.2−	2000 03 11	704	0.5−	0.5−
1998 11 15	699	1.0+	0.3−	2000 03 03	704	0.3+	0.3−	2000 03 11	704	0.2−	0.4−
1998 11 15	699	0.2−	0.9+	2000 03 03	704	0.0	0.2−	2000 03 11	704	0.8+	0.1−
1998 11 18	691	0.1−	0.2−	2000 03 03	704	0.0	0.5−	2000 03 11	699	0.9−	0.1−
1998 11 18	691	0.0	0.2−	2000 03 03	704	0.1−	0.3−	2000 03 11	699	0.2−	0.2−
1998 11 18	691	0.9−	0.3−	2000 03 05	704	0.0	0.3−	2000 03 11	699	0.0	0.1+
2000 02 11	704	0.1−	0.6−	2000 03 05	704	0.7+	0.5−	2000 03 11	699	0.1−	0.1−
2000 02 11	704	1.3+	0.6+	2000 03 05	704	0.0	0.0				

2000 DA₅₇ = 1993 RB₂₀

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	271.26197	(2000.0)		P		Q	
<i>n</i>	0.22826730	<i>ω</i>	282.20509	−0.22470091		+0.97390943	
<i>a</i>	2.6515933	<i>Ω</i>	334.74150	−0.86256639		−0.21397204	
<i>e</i>	0.0616867	<i>i</i>	4.27116	−0.45330864		−0.07560686	
<i>P</i>	4.32	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 15	809	0.3+	1.6+	2000 03 03	704	0.2−	0.4−	2000 03 05	704	0.8+	0.2+
1993 09 15	809	0.3−	0.0	2000 03 03	704	0.5−	0.7−	2000 03 11	704	0.1+	0.3−
1993 09 15	809	0.7−	0.9−	2000 03 03	704	0.5−	0.5−	2000 03 11	704	0.1−	0.2−
1993 09 22	809	(2.9−	0.0)	2000 03 04	704	0.5−	0.2+	2000 03 11	704	0.5−	0.2+
1993 09 22	809	0.0	0.5−	2000 03 04	704	0.1+	0.3+	2000 03 11	704	0.3+	0.7−
1993 09 22	809	0.7+	0.1−	2000 03 04	704	0.4−	0.2+	2000 03 11	704	0.0	0.1−
2000 02 29	704	1.0+	0.1+	2000 03 04	704	0.1+	0.0	2000 03 27	699	0.1−	0.5+
2000 02 29	704	0.1+	0.6+	2000 03 04	704	0.1+	0.0	2000 03 27	699	0.3+	0.9+
2000 02 29	704	0.1+	0.8+	2000 03 05	704	0.5−	0.4−	2000 03 27	699	0.1+	0.4+
2000 02 29	704	0.1+	0.3+	2000 03 05	704	0.1+	0.5+	2000 03 27	699	0.2−	1.1−
2000 03 03	704	0.1+	0.3−	2000 03 05	704	0.1+	0.3+				
2000 03 03	704	0.1−	0.4−	2000 03 05	704	0.1+	0.4−				

2000 DK₅₈ = 1975 PG

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	252.38351	(2000.0)		P		Q	
<i>n</i>	0.26727151	<i>ω</i>	87.41578	+0.34530611		+0.93821045	
<i>a</i>	2.3869002	<i>Ω</i>	202.82601	−0.88281182		+0.31644011	
<i>e</i>	0.2064615	<i>i</i>	3.38558	−0.31844462		+0.14009573	
<i>P</i>	3.69	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1975 08 14	805	0.3+	0.9+	2000 03 03	704	0.6+	0.2−	2000 03 11	699	0.6−	0.7+
1975 08 15	805	0.7−	0.1+	2000 03 03	704	0.2+	0.7−	2000 03 11	699	1.8−	0.1−
1975 08 16	805	0.4+	0.8−	2000 03 03	704	0.6+	0.2−	2000 03 11	699	0.8−	0.9+
2000 02 02	704	0.0	0.9−	2000 03 03	704	0.5+	0.3−	2000 03 27	699	1.0−	0.0
2000 02 02	704	0.2+	0.4+	2000 03 03	704	0.6+	0.3−	2000 03 27	699	0.3−	0.2−
2000 02 02	704	0.9+	0.3−	2000 03 11	704	0.1+	0.1+	2000 03 27	699	0.2−	1.3+
2000 02 02	704	0.0	2.0+	2000 03 11	704	0.1−	0.5−	2000 03 27	699	0.3−	1.1−
2000 02 29	704	0.5+	0.2−	2000 03 11	704	0.0	0.0	2000 04 04	699	1.1+	0.3−
2000 02 29	704	0.1+	0.0	2000 03 11	704	0.2−	0.3−	2000 04 04	699	0.7−	0.3+
2000 02 29	704	0.2+	0.1−	2000 03 11	704	0.5−	0.2−	2000 04 04	699	1.7+	0.5−
2000 02 29	704	0.8−	0.2−	2000 03 11	699	0.3−	0.7+	2000 04 04	699	0.7+	0.4+

2000 DQ₅₈ = 1997 RD₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	277.15921	(2000.0)		P		Q	
<i>n</i>	0.22011504	<i>ω</i>	76.21065	−0.30139929		+0.95348486	
<i>a</i>	2.7166659	<i>Ω</i>	176.23652	−0.90164665		−0.28329679	
<i>e</i>	0.0672862	<i>i</i>	4.37582	−0.31014801		−0.10300265	
<i>P</i>	4.48	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 09 03	910	0.2−	0.1+	2000 02 25	691	0.0	0.3−	2000 03 03	704	0.1−	0.3−
1997 09 03	910	0.4−	0.4−	2000 02 29	704	0.6+	0.7+	2000 03 03	704	0.5+	0.0
1997 09 03	910	0.4−	0.2+	2000 02 29	704	0.1−	0.4+	2000 03 11	704	0.5+	1.6+
1997 09 05	910	0.4+	0.1+	2000 02 29	704	0.3−	0.8+	2000 03 11	704	0.3−	0.0
1997 09 05	910	0.4+	0.1−	2000 02 29	704	0.0	0.3+	2000 03 11	704	0.1−	0.2+
1997 09 05	910	0.2+	0.1+	2000 03 03	704	0.0	0.2−	2000 03 11	704	0.2+	1.0−
2000 02 25	691	0.3−	0.4−	2000 03 03	704	0.1+	0.1+	2000 03 11	704	0.8−	1.1−
2000 02 25	691	0.3−	0.6−	2000 03 03	704	0.3+	0.3−				

2000 APR. 18

M.P.C. 40119

2000 DY₅₉ = 1998 XD₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	161.70410		(2000.0)	P	Q
<i>n</i>	0.23095562	ω	192.92944	+0.99337155	+0.11290400
<i>a</i>	2.6309769	Ω	160.54848	-0.09885268	+0.93489465
<i>e</i>	0.2760739	<i>i</i>	3.71538	-0.05866105	+0.33648876
<i>P</i>	4.27	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 23	704	0.9-	0.6-	2000 02 05	691	0.5-	0.6-	2000 03 10	704	0.3+	0.5-
1998 11 23	704	0.9+	0.2-	2000 02 29	704	0.2-	0.1-	2000 03 11	704	0.8+	0.3+
1998 11 23	704	1.0+	0.4+	2000 02 29	704	0.1-	0.3-	2000 03 11	704	0.4-	0.1-
1998 11 23	704	0.1+	0.9+	2000 02 29	704	0.9-	0.3+	2000 03 11	704	0.4-	0.3-
1998 12 15	704	0.8-	0.2-	2000 02 29	704	0.4+	0.3-	2000 03 11	704	0.3-	0.9-
1998 12 15	704	0.0	1.0-	2000 03 03	704	0.0	0.5+	2000 03 11	699	0.2+	0.0
1998 12 15	704	1.2-	0.3+	2000 03 03	704	0.5-	0.0	2000 03 11	699	0.8-	0.5+
1998 12 15	704	0.0	0.8+	2000 03 03	704	0.0	0.1-	2000 03 11	699	0.6+	0.6+
1998 12 16	704	0.0	0.0	2000 03 03	704	0.0	0.4+	2000 03 11	699	0.4+	0.6-
1998 12 16	704	1.0+	0.1-	2000 03 03	704	0.3-	0.0	2000 03 27	699	0.0	0.8+
1998 12 16	704	(0.7-	3.0-)	2000 03 10	704	0.6-	0.1+	2000 03 27	699	0.1+	0.7-
2000 02 05	691	0.3-	0.7-	2000 03 10	704	0.1+	0.0	2000 03 27	699	1.0+	0.9+
2000 02 05	691	0.3-	0.6-	2000 03 10	704	1.0+	0.2+	2000 03 27	699	0.6+	1.1+

2000 DM₆₂ = 1998 RK₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	103.45659		(2000.0)	P	Q
<i>n</i>	0.28522700	ω	71.66630	+0.64769744	-0.76077779
<i>a</i>	2.2856460	Ω	337.80370	+0.65124245	+0.58094458
<i>e</i>	0.0872825	<i>i</i>	6.27533	+0.39543811	+0.28934504
<i>P</i>	3.46	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 14	704	0.7+	0.1+	2000 03 03	704	0.1+	0.1+	2000 03 11	704	0.5+	0.1-
1998 09 14	704	0.0	0.8-	2000 03 03	704	0.0	0.0	2000 03 11	704	0.2+	0.3+
1998 09 14	704	0.8-	0.6-	2000 03 03	704	0.1-	0.0	2000 03 11	704	0.4-	0.2+
1998 09 14	704	1.3+	0.4-	2000 03 03	704	0.1+	0.5+	2000 03 11	704	0.2-	0.5+
1998 09 18	704	0.1-	1.2+	2000 03 03	704	0.2+	0.3+	2000 03 11	699	0.3+	0.2+
1998 09 18	704	1.3-	1.1-	2000 03 03	691	0.1+	0.3-	2000 03 11	699	0.1+	0.7-
1998 09 18	704	0.4+	1.1+	2000 03 03	691	0.0	0.4-	2000 03 11	699	0.2+	0.5-
1998 09 18	704	0.9+	0.8-	2000 03 03	691	0.2-	0.4-	2000 03 11	699	0.6-	0.4+
1998 09 18	704	0.9-	1.1+	2000 03 04	691	0.7-	0.4-	2000 03 27	699	0.1-	0.4+
2000 02 29	704	0.1-	0.3+	2000 03 04	691	0.7-	0.5-	2000 03 27	699	0.2-	0.2-
2000 02 29	704	0.5+	0.6+	2000 03 04	691	0.9-	0.5-	2000 03 27	699	0.8+	0.7-
2000 02 29	704	0.9+	0.1-	2000 03 11	704	0.7+	0.2+	2000 03 27	699	0.3-	0.3+

2000 DV₆₂ = 1998 QN₁₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	120.48940		(2000.0)	P	Q
<i>n</i>	0.30376388	ω	58.40926	+0.87580182	-0.48234336
<i>a</i>	2.1916875	Ω	330.41834	+0.42974457	+0.79600756
<i>e</i>	0.1486944	<i>i</i>	2.06379	+0.21975162	+0.36567314
<i>P</i>	3.24	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1997 03 11	809	0.4-	0.0	1998 08 23	704	0.7+	0.2-	2000 03 03	704	0.3+	0.0
1997 03 11	809	1.0-	0.4+	1998 08 23	699	0.4+	0.0	2000 03 03	704	0.2+	0.1-
1997 03 11	809	0.0	0.6+	1998 09 21	699	0.8-	0.6+	2000 03 03	704	0.1-	0.2-
1997 04 06	566	0.4+	0.4-	1998 09 21	699	0.7+	1.5+	2000 03 03	704	0.1-	0.1-
1997 04 06	566	0.1-	0.8-	1998 09 21	699	0.6+	0.8+	2000 03 03	704	0.3+	0.1-
1997 04 06	566	0.6+	0.7-	1998 12 15	910	0.4-	0.4+	2000 03 11	704	0.1-	0.5+
1998 08 17	704	0.3-	0.3-	1998 12 15	910	0.1-	0.6+	2000 03 11	704	0.2+	0.2+
1998 08 17	704	0.1-	0.5+	1998 12 15	910	0.6-	0.4+	2000 03 11	704	0.1-	0.7+
1998 08 17	704	0.0	0.7+	2000 02 25	691	0.2+	0.0	2000 03 11	704	0.1+	0.2+
1998 08 17	704	0.2-	0.5+	2000 02 25	691	0.2+	0.2-	2000 03 11	704	0.4+	0.8+

1998 08 17	704	0.7-	0.2+	2000 02 25	691	2.0+	0.2-	2000 03 11	699	0.3-	0.1+
1998 08 21	566	1.8-	1.1-	2000 02 26	703	0.2+	0.7+	2000 03 11	699	1.3+	0.1+
1998 08 21	566	(2.1-	1.2-)	2000 02 26	703	0.3+	0.4+	2000 03 11	699	0.4-	0.3+
1998 08 21	566	(2.5-	1.2-)	2000 02 26	703	0.3-	1.8+	2000 03 11	699	0.1-	0.1+
1998 08 23	704	0.3-	0.9+	2000 02 26	703	0.2-	0.5+	2000 04 04	699	1.1-	0.6+
1998 08 23	699	0.5+	0.4-	2000 02 29	704	0.3+	0.7+	2000 04 04	699	0.1-	0.5+
1998 08 23	704	0.1+	0.6+	2000 02 29	704	0.8+	0.1+	2000 04 04	699	0.1-	0.7-
1998 08 23	699	0.1+	0.3+	2000 02 29	704	0.1-	0.6+	2000 04 04	699	0.8-	0.8-
1998 08 23	704	0.4-	0.2+	2000 02 29	704	0.1-	0.4+				

2000 DS₆₆ = 1996 JM₁₅ = 1998 YT₁₈

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	104.11520		(2000.0)	P	Q
<i>n</i>	0.20270256	ω	268.85085	+0.65258972	-0.75711948
<i>a</i>	2.8700969	Ω	140.35882	+0.71251939	+0.59974324
<i>e</i>	0.0781703	<i>i</i>	2.69037	+0.25776496	+0.25899449
<i>P</i>	4.86	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 05 13	691	0.0	0.5+	1998 12 28	691	0.1-	0.2+	2000 03 03	704	0.4+	0.3+
1996 05 13	691	0.1-	0.4+	1998 12 28	691	0.4+	0.3-	2000 03 03	704	0.3+	0.2-
1996 05 13	691	1.8-	1.4-	1998 12 28	691	0.3-	0.2+	2000 03 11	704	0.3-	0.4+
1996 05 20	691	0.5+	0.0	2000 02 29	704	0.3-	0.7-	2000 03 11	704	0.2-	0.1-
1996 05 20	691	0.8+	0.3+	2000 02 29	704	0.1+	0.0	2000 03 11	704	0.3-	0.0
1996 05 20	691	0.6+	0.2+	2000 02 29	704	0.2-	0.0	2000 03 11	699	0.4-	0.0
1998 12 25	691	0.1-	0.1-	2000 03 03	704	0.7+	0.2+	2000 03 11	699	0.1-	0.3-
1998 12 25	691	0.1+	0.1+	2000 03 03	704	0.7+	0.2+	2000 03 11	699	0.7-	0.1+
1998 12 25	691	0.0	0.0	2000 03 03	704	0.3+	0.3+	2000 03 11	699	0.1+	0.3-

2000 DW₇₀ = 1997 TT₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	286.83377		(2000.0)	P	Q
<i>n</i>	0.18375826	ω	27.54044	-0.34284795	+0.93930588
<i>a</i>	3.0641132	Ω	222.41242	-0.86528419	-0.32101049
<i>e</i>	0.0751472	<i>i</i>	1.07374	-0.36570283	-0.12106497
<i>P</i>	5.36	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 10 03	910	0.3+	0.3+	2000 03 03	704	0.0	0.1+	2000 03 11	704	0.8+	0.5+
1997 10 03	910	0.4+	0.4+	2000 03 03	704	0.2-	0.4+	2000 03 11	704	0.8+	0.1-
1997 10 03	910	0.4+	0.3+	2000 03 04	704	0.5+	0.0	2000 03 11	699	0.1+	0.4-
1997 10 04	910	0.2+	0.2-	2000 03 04	704	0.4+	0.5-	2000 03 11	704	0.9+	0.3+
1997 10 04	910	0.2+	0.0	2000 03 04	704	0.2+	0.1-	2000 03 11	699	0.7-	0.4+
1997 10 04	910	0.2+	0.3-	2000 03 04	704	0.3+	0.5+	2000 03 11	704	0.7+	0.1+
2000 02 27	703	0.3-	0.0	2000 03 04	704	0.3-	0.5+	2000 03 11	699	0.7-	0.2+
2000 02 27	703	0.2+	0.4-	2000 03 05	704	0.2-	0.6+	2000 04 02	699	0.4-	0.2+
2000 02 27	703	0.1+	0.2-	2000 03 05	704	0.4+	0.7-	2000 04 02	699	0.4-	0.6-
2000 02 27	703	0.2-	0.4+	2000 03 05	704	0.3+	0.2-	2000 04 02	699	0.5-	0.3-
2000 02 29	704	0.1-	0.1-	2000 03 05	704	0.3+	0.0	2000 04 02	699	0.8-	0.3-
2000 02 29	704	0.1+	0.4-	2000 03 05	704	0.3+	0.4+	2000 04 05	704	1.3+	0.8-
2000 02 29	704	0.4-	0.2-	2000 03 08	608	0.1+	0.0	2000 04 05	704	0.1-	1.5+
2000 02 29	704	0.9-	0.2-	2000 03 08	608	0.2+	0.3+	2000 04 05	704	0.0	0.4-
2000 02 29	704	1.1-	0.2+	2000 03 08	608	0.2-	1.3-	2000 04 05	704	0.1-	0.1+
2000 03 03	704	0.1-	0.2+	2000 03 11	704	0.7+	0.0	2000 04 05	704	0.1-	0.1-
2000 03 03	704	0.4-	0.2+	2000 03 11	699	0.4-	0.4+				

2000 DY₇₀ = 1993 ST₇ = 1997 RT₁₂Id. G. V. Williams (*MPC* 39462), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	281.91214	(2000.0)	P		Q	
<i>n</i>	0.23488802	ω	35.49973	−0.14251411	+0.98957842	
<i>a</i>	2.6015298	Ω	226.31678	−0.91456951	−0.13961231	
<i>e</i>	0.1411816	<i>i</i>	1.63216	−0.37848690	−0.03525546	
<i>P</i>	4.20	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1993 09 17	809	(2.8+ 1.2+)	1997 09 06	910	0.1+ 0.1+	2000 03 08	608	0.6+ 0.8−
1993 09 17	809	1.0+ 0.1+	1997 09 06	910	0.0 0.2+	2000 03 08	608	0.1+ 0.1−
1993 09 17	809	1.6+ 1.6+	2000 02 27	703	0.3+ 0.8+	2000 03 08	608	0.5+ 0.2−
1993 09 18	809	1.9+ 0.5+	2000 02 27	703	0.5− 0.9+	2000 03 11	704	0.3+ 0.3+
1993 09 18	809	(2.5+ 0.5+)	2000 02 27	703	0.6− 0.4+	2000 03 11	699	0.5− 0.4−
1993 09 18	809	1.4+ 0.3−	2000 02 27	703	0.3− 0.4+	2000 03 11	704	0.1+ 0.4+
1993 09 22	809	0.2+ 0.8−	2000 02 29	704	0.1− 0.5−	2000 03 11	704	0.5− 0.6+
1993 09 22	809	1.5− 0.4−	2000 02 29	704	0.1+ 0.4+	2000 03 11	699	0.2− 0.3−
1993 09 22	809	1.2− 0.9+	2000 02 29	704	0.0 0.4+	2000 03 11	704	0.1− 0.5+
1993 09 24	809	1.5− 0.6−	2000 02 29	704	0.1− 0.3−	2000 03 11	699	0.4− 0.3−
1993 09 24	809	0.1− 0.7−	2000 02 29	704	0.8− 0.8−	2000 03 11	704	0.3+ 0.8+
1993 09 24	809	1.6− 0.5−	2000 03 03	704	0.2+ 0.3−	2000 03 11	699	0.6− 0.0
1997 09 06	910	0.1+ 0.0	2000 03 03	704	0.0 0.3−	2000 04 05	704	0.3+ 0.2−
1997 09 06	910	0.0 0.0	2000 03 03	704	0.4+ 0.4−	2000 04 05	704	0.9+ 0.0
1997 09 06	910	0.3− 0.1+	2000 03 03	704	0.4+ 0.0	2000 04 05	704	0.2− 0.4−
1997 09 06	910	0.1− 0.0	2000 03 03	704	0.3+ 0.3+	2000 04 05	704	0.3+ 0.5−

2000 DC₇₁ = 1997 WK₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	218.58919	(2000.0)	P		Q	
<i>n</i>	0.17126732	ω	139.52278	+0.73012390	+0.68321904	
<i>a</i>	3.2113407	Ω	177.29739	−0.67269355	+0.72161435	
<i>e</i>	0.0847157	<i>i</i>	14.03932	−0.12001034	+0.11173393	
<i>P</i>	5.75	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 11 25	809	(3.2+ 1.1+)	2000 02 29	704	0.2+ 0.6+	2000 04 02	699	0.1+ 0.6+
1997 11 25	809	1.7+ 0.5+	2000 02 29	704	0.2+ 0.3+	2000 04 05	704	0.4+ 0.8−
1997 11 26	809	1.3− 0.2+	2000 02 29	704	0.0 0.7+	2000 04 05	704	0.3+ 0.1−
1997 11 26	809	0.7− 0.1−	2000 03 03	704	0.4+ 0.4+	2000 04 05	704	0.4+ 0.3+
1997 11 27	809	0.2+ 0.2+	2000 03 03	704	0.2+ 0.4+	2000 04 05	704	0.5− 0.3−
1997 11 27	809	0.2+ 0.3−	2000 03 03	704	0.5+ 0.8+	2000 04 05	704	0.1− 0.4−
1997 11 28	809	0.4− 0.4−	2000 03 03	704	0.5+ 0.9+	2000 04 06	704	0.1− 0.4−
1997 11 28	809	0.2+ 0.0	2000 03 03	704	0.5+ 1.5+	2000 04 06	704	0.0 0.2+
2000 02 08	704	0.6+ 1.0−	2000 03 11	704	0.1− 0.1−	2000 04 06	704	0.0 0.3−
2000 02 08	704	(0.6− 2.6−)	2000 03 11	704	0.5− 0.1−	2000 04 07	704	0.4+ 0.4−
2000 02 08	704	0.7− 1.8−	2000 03 11	704	0.2− 0.0	2000 04 07	704	0.8− 0.4−
2000 02 27	703	1.4− 0.3−	2000 03 11	704	0.1− 0.3+	2000 04 07	704	0.1− 0.1−
2000 02 27	703	0.0 0.5−	2000 03 11	704	0.4− 0.6+	2000 04 07	704	0.7− 0.3−
2000 02 27	703	0.5− 0.4−	2000 04 02	699	0.3+ 0.1−	2000 04 07	704	0.1− 0.2−
2000 02 27	703	0.3− 1.0−	2000 04 02	699	0.8+ 1.3+			
2000 02 29	704	1.1+ 0.1+	2000 04 02	699	0.0 0.2−			

2000 DO₇₁ = 1997 LZ₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	183.88600	(2000.0)	P		Q	
<i>n</i>	0.26275429	ω	172.19860	+0.96951440	+0.24489347	
<i>a</i>	2.4141792	Ω	173.60769	−0.22865150	+0.91636230	
<i>e</i>	0.1953243	<i>i</i>	4.27938	−0.08809269	+0.31671330	
<i>P</i>	3.75	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1997 06 08	809	0.7− 0.0	2000 02 29	704	0.0 0.7+	2000 03 11	704	0.2+ 0.1−
1997 06 08	809	0.9− 0.5−	2000 02 29	704	0.4− 0.7−	2000 03 11	704	0.1− 0.3−
1997 06 08	809	0.6− 0.3+	2000 03 03	704	0.4+ 0.6+	2000 03 11	704	0.1− 0.1−
1997 06 09	809	1.2+ 0.3−	2000 03 03	704	0.5+ 0.9+	2000 03 11	704	0.1− 0.2−
1997 06 09	809	0.4+ 0.1−	2000 03 03	704	0.6− 0.7−	2000 03 11	704	0.0 0.5−

1997 06 09	809	0.6+ 0.5+	2000 03 03	704	0.6+ 0.3+	2000 03 25	732	1.0− 0.1+
1998 12 15	704	(1.5+ 2.6+)	2000 03 04	704	0.1− 0.6−	2000 03 25	732	(2.6− 1.4+)
1998 12 15	704	1.3+ 0.9−	2000 03 04	704	0.7− 0.4−	2000 03 27	732	0.6+ 0.1+
1998 12 15	704	1.3+ 0.3+	2000 03 04	704	0.2+ 0.1−	2000 04 05	704	1.7+ 0.0
1998 12 15	704	(2.6+ 1.3+)	2000 03 04	704	0.7− 0.2−	2000 04 05	704	0.6+ 0.2−
1998 12 15	704	(3.7− 0.2+)	2000 03 04	704	0.2− 0.1−	2000 04 05	704	0.5+ 1.2+
1998 12 22	704	0.4− 1.2+	2000 03 08	732	1.3− 1.1−	2000 04 05	704	0.1+ 0.1+
1998 12 22	704	0.8− 0.7+	2000 03 08	732	0.3+ 0.1+	2000 04 05	704	0.3+ 0.4+
1998 12 22	704	0.2− 0.5−	2000 03 08	732	0.6− 0.7−	2000 04 06	704	0.2− 0.4+
1998 12 22	704	1.3− 0.6−	2000 03 09	732	(2.9+ 0.1−)	2000 04 06	704	0.3+ 0.5+
2000 02 29	704	0.2+ 0.3−	2000 03 09	732	0.1− 0.3−	2000 04 06	704	0.5+ 0.0
2000 02 29	704	0.1− 0.1+	2000 03 09	732	0.7− 0.5+	2000 04 06	704	0.6+ 0.8+

2000 DT₇₁ = 1981 EM₄₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	232.80009	(2000.0)	P		Q	
<i>n</i>	0.25872095	ω	322.86832	+0.64323248	+0.76560532	
<i>a</i>	2.4392051	Ω	347.15475	−0.69121893	+0.57500508	
<i>e</i>	0.1792692	<i>i</i>	2.58423	−0.32934537	+0.28847472	
<i>P</i>	3.81	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1981 03 03	413	(5.0+ 0.4+)	2000 03 03	704	0.7+ 0.5+	2000 04 02	699	0.2+ 0.3−
1981 03 07	413	0.9− 0.6+	2000 03 11	704	0.2+ 0.0	2000 04 02	699	0.5− 0.6+
1981 03 07	413	2.1+ 1.6−	2000 03 11	699	0.4− 0.2+	2000 04 05	704	0.5+ 0.2−
1981 03 11	413	1.7− 0.1+	2000 03 11	704	0.2+ 0.3+	2000 04 05	704	0.5+ 0.0
2000 02 29	704	0.7+ 0.0	2000 03 11	704	0.3− 0.6−	2000 04 05	704	0.1+ 0.1+
2000 02 29	704	0.1+ 0.4−	2000 03 11	699	0.6− 0.0	2000 04 05	704	0.1− 0.0
2000 02 29	704	0.1− 1.3−	2000 03 11	704	1.5− 1.2+	2000 04 05	704	0.1+ 0.6+
2000 02 29	704	0.1− 0.5+	2000 03 11	699	1.2+ 0.2+	2000 04 06	704	0.9− 0.1+
2000 03 03	704	0.1+ 0.0	2000 03 11	704	0.5− 1.4−	2000 04 06	704	0.7+ 0.0
2000 03 03	704	0.1− 0.2+	2000 03 11	699	0.3− 0.8+	2000 04 06	704	0.9+ 0.3+
2000 03 03	704	0.2+ 0.4+	2000 04 02	699	0.9− 0.1−			
2000 03 03	704	0.6+ 0.2−	2000 04 02	699	0.2− 0.6−			

2000 DY₇₂ = 1995 YA₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	50.82886	(2000.0)	P		Q	
<i>n</i>	0.26942437	ω	57.33521	−0.15076419	−0.98856071	
<i>a</i>	2.3741681	Ω	41.33667	+0.90483805	−0.13971575	
<i>e</i>	0.1660560	<i>i</i>	0.36676	+0.39816863	−0.05680868	
<i>P</i>	3.66	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1995 12 22	566	0.8+ 1.4+	2000 02 26	703	1.3+ 1.3+	2000 03 11	704	0.5+ 0.3+
1995 12 22	566	0.8+ 1.1+	2000 02 29	704	0.3+ 0.5+	2000 03 11	699	0.1+ 0.0
1995 12 22	566	1.0+ 1.3+	2000 02 29	704	0.2− 0.3−	2000 03 11	699	0.8− 0.4+
1995 12 24	566	0.8− 1.4−	2000 02 29	704	0.9+ 0.3−	2000 03 11	704	0.3+ 0.6+
1995 12 24	566	0.7− 1.3−	2000 02 29	704	0.5+ 0.0	2000 03 11	699	0.1− 0.3−
1995 12 24	566	1.1− 1.5−	2000 03 03	704	0.4− 0.2−	2000 03 11	699	1.5− 0.6+
1998 08 17	704	(1.2− 2.0+)	2000 03 03	704	0.1− 0.3−	2000 03 14	691	0.6− 0.2−
1998 08 17	704	0.5− 1.3−	2000 03 03	704	0.1+ 0.1+	2000 03 14	691	0.6− 0.2−
1998 08 17	704	(4.2− 0.6−)	2000 03 03	704	0.1+ 0.4−	2000 03 14	691	0.7− 0.1−
1998 08 17	704	1.1+ 0.0	2000 03 03	704	0.5+ 0.0	2000 04 05	704	1.6− 1.2−
2000 02 11	704	1.4+ 0.4+	2000 03 08	608	0.3− 0.4+	2000 04 05	704	0.1+ 0.1−
2000 02 11	704	0.2− 0.8+	2000 03 08	608	0.1− 0.1+	2000 04 05	704	0.3− 0.1−
2000 02 11	704	0.0 1.1−	2000 03 08	608	0.1− 0.3+	2000 04 05	704	0.2− 0.0
2000 02 16	703	0.2− 0.5−	2000 03 11	704	0.1+ 0.2+	2000 04 05	704	0.3− 0.8−
2000 02 16	703	1.9− 0.3−	2000 03 11	699	0.3− 0.0	2000 04 05	704	1.5+ 0.2+
2000 02 16	703	0.8+ 0.4−	2000 03 11	699	0.8− 0.1+	2000 04 05	704	1.3+ 0.2+
2000 02 16	703	0.2− 0.0	2000 03 11	704	0.2+ 0.1−	2000 04 05	704	0.1+ 1.0+
2000 02 26	703	0.5− 0.9−	2000 03 11	704	0.1+ 0.2+	2000 04 06	704	0.2+ 0.2−
2000 02 26	703	0.8+ 0.3+	2000 03 11	699	0.1+ 0.1+	2000 04 06	704	0.4+ 0.7−
2000 02 26	703	1.3+ 0.5−	2000 03 11	699	1.2− 0.3+	2000 04 06	704	0.1+ 0.7−

2000 APR. 18

M.P.C. 40121

2000 DK₇₃ = 1995 EJ₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	203.99252		(2000.0)	P		Q	
<i>n</i>	0.19790746	ω	180.69050	+0.85300020	+0.52132821		
<i>a</i>	2.9162714	Ω	147.84976	-0.47862129	+0.80020861		
<i>e</i>	0.0699304	<i>i</i>	2.65488	-0.20811614	+0.29645079		
<i>P</i>	4.98	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1995 03 02	691	0.2+	0.2-	2000 03 03	704	0.2+	0.1+
1995 03 02	691	0.7+	0.3-	2000 03 03	704	0.2+	0.0
1995 03 02	691	0.3-	0.2-	2000 03 03	704	0.3-	0.4-
1995 03 08	691	0.1+	0.2-	2000 03 03	704	0.1+	0.1+
1995 03 08	691	0.0	0.0	2000 03 11	704	0.4+	0.3-
1995 03 08	691	0.1+	0.6-	2000 03 11	699	0.9-	0.3-
2000 02 29	704	0.3+	0.1-	2000 03 11	704	0.2+	0.3+
2000 02 29	704	0.2+	0.6+	2000 03 11	704	0.3+	0.3+
2000 02 29	704	0.4+	1.2+	2000 03 11	699	0.9-	0.3-
2000 02 29	704	0.4+	0.1+	2000 03 11	704	0.5+	0.0
2000 03 03	704	0.4+	0.4-	2000 03 11	699	0.4-	0.7-

2000 DE₇₄ = 1993 RD₁₇ = 1996 FB₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.56998		(2000.0)	P		Q	
<i>n</i>	0.22294609	ω	200.06076	+0.92190686	-0.38739774		
<i>a</i>	2.6936188	Ω	182.73848	+0.36414331	+0.86939180		
<i>e</i>	0.0604340	<i>i</i>	3.93178	+0.13223989	+0.30672609		
<i>P</i>	4.42	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1993 09 15	809	0.9+	1.2-	1998 12 17	910	0.0	0.1+
1993 09 15	809	(0.4+	2.2-)	2000 02 29	704	1.2+	1.0-
1993 09 15	809	(0.6-	2.6-)	2000 02 29	704	0.1-	0.5-
1993 09 22	809	0.4-	0.8+	2000 02 29	704	0.3-	0.2-
1993 09 22	809	0.5-	1.0-	2000 02 29	704	0.1+	0.8-
1993 09 22	809	0.4+	0.1+	2000 03 03	704	0.6-	0.3+
1996 03 24	809	(0.1-	3.3+)	2000 03 03	704	0.1+	0.4+
1996 03 24	809	(0.2+	2.4+)	2000 03 03	704	0.5+	0.0
1996 03 24	809	0.1+	0.6+	2000 03 03	704	0.1-	0.0
1996 03 26	809	0.5-	1.2+	2000 03 03	704	0.8+	0.0
1996 03 26	809	0.0	1.0-	2000 03 11	704	0.8-	0.1+
1996 03 26	809	0.4+	1.8-	2000 03 11	704	0.8-	1.4-
1998 12 17	910	0.0	0.0	2000 03 11	704	0.2-	0.1+
1998 12 17	910	0.3+	0.1-	2000 03 11	704	0.1-	0.5-

2000 DP₇₄ = 1993 TQ₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	212.05220		(2000.0)	P		Q	
<i>n</i>	0.22257216	ω	137.92682	+0.76892843	+0.63932128		
<i>a</i>	2.6966350	Ω	182.34373	-0.61039089	+0.73216227		
<i>e</i>	0.0377521	<i>i</i>	5.85057	-0.19018949	+0.23496109		
<i>P</i>	4.43	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1993 10 09	809	0.1+	0.9+	2000 03 03	704	0.5+	0.8+
1993 10 09	809	0.2+	0.5+	2000 03 03	704	0.4+	0.5+
1993 10 09	809	0.3-	0.4+	2000 03 03	704	0.4+	0.8+
1993 10 20	809	0.6+	0.3-	2000 03 11	704	0.6-	0.3+
1993 10 20	809	0.5-	0.1+	2000 03 11	704	0.3+	0.0
1993 10 20	809	0.3-	1.4-	2000 03 11	704	0.3+	0.3+
2000 02 29	704	0.5+	0.3-	2000 03 11	704	0.1+	0.4-
2000 02 29	704	1.2-	0.2-	2000 03 11	704	0.2+	0.6+
2000 02 29	704	0.3-	0.2-	2000 03 25	691	0.2-	0.9-
2000 02 29	704	0.4-	0.6-	2000 03 25	691	0.5-	0.9-

2000 03 03	704	0.1+	0.1+	2000 03 25	691	0.4-	0.9-	2000 04 06	704	0.1+	0.2+
2000 03 03	704	0.1+	0.6-	2000 04 02	699	0.5-	0.2-	2000 04 06	704	0.3+	0.4+

2000 DT₇₄ = 1993 RX₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	256.26387		(2000.0)	P		Q	
<i>n</i>	0.23739946	ω	104.05852	+0.28519552	+0.95843426		
<i>a</i>	2.5831496	Ω	182.55614	-0.93497556	+0.27631159		
<i>e</i>	0.1219026	<i>i</i>	10.59769	-0.21091283	+0.07110323		
<i>P</i>	4.15	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1993 09 15	809	(0.5+	3.8+)	2000 02 29	704	0.4-	0.4-
1993 09 15	809	(1.4-	3.0+)	2000 02 29	704	0.0	0.4-
1993 09 15	809	(0.1-	3.3+)	2000 02 29	704	0.0	0.3-
1993 09 22	809	0.4-	2.0+	2000 02 29	704	0.2+	0.1+
1993 09 22	809	0.6-	0.9+	2000 03 03	704	0.4+	0.1+
1993 09 22	809	0.0	1.7+	2000 03 03	704	0.0	0.1+
1996 02 15	566	0.1+	0.8-	2000 03 03	704	0.1+	0.4+
1996 02 15	566	0.5-	0.9-	2000 03 08	704	0.3-	0.3+
1996 02 15	566	1.1+	0.8-	2000 03 08	704	(2.6-	0.1-)
1996 03 19	566	0.0	0.9+	2000 03 08	704	1.0+	0.4+
1996 03 19	566	0.4-	1.0+	2000 03 08	704	1.1-	0.2+
1996 03 19	566	0.1-	0.3+	2000 03 08	704	0.5-	0.5+
2000 02 08	704	0.5+	0.0	2000 03 11	704	0.2-	0.2+
2000 02 08	704	0.2-	0.6+	2000 03 11	704	0.2-	0.4+
2000 02 08	704	0.5+	0.4-	2000 03 11	704	0.0	0.5+
2000 02 08	704	0.2+	0.1-	2000 03 11	704	0.1-	0.7+
2000 02 27	703	0.3-	0.3-	2000 03 11	704	0.1+	0.9+
2000 02 27	703	0.1-	0.1-	2000 03 30	703	0.1-	0.0
2000 02 27	703	0.6-	0.2-	2000 03 30	703	1.8-	0.1+
2000 02 27	703	0.1+	0.2+	2000 03 30	703	(0.5-	3.1-)
2000 02 29	704	0.2-	0.2-	2000 03 30	703	1.1-	0.6+

2000 DU₇₄ = 1993 PJ₆ = 1998 XH₇₆Id. G. V. Williams (*MPC* 39466), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	165.06738		(2000.0)	P		Q	
<i>n</i>	0.22975343	ω	135.41176	+0.99813889	-0.05022928		
<i>a</i>	2.6401466	Ω	227.50053	+0.03399653	+0.92909789		
<i>e</i>	0.1056982	<i>i</i>	2.68826	+0.05062592	+0.36640706		
<i>P</i>	4.29	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1993 08 15	010	0.5+	0.5+	2000 02 27	703	1.0-	0.3+
1993 08 15	010	0.1-	0.1+	2000 02 29	704	0.0	0.4+
1993 08 15	010	0.6-	0.2+	2000 02 29	704	0.2-	0.2+
1993 08 17	010	0.3+	1.1-	2000 02 29	704	0.6-	0.7-
1998 12 15	704	(2.5+	0.4-)	2000 02 29	704	0.1-	0.2-
1998 12 15	704	1.3+	1.1+	2000 03 03	704	0.4+	0.0
1998 12 15	704	0.5-	0.5-	2000 03 03	704	1.0+	0.1+
1998 12 16	704	0.1+	0.5-	2000 03 03	704	0.4+	0.7+
1998 12 16	704	0.2+	1.0-	2000 03 08	704	1.3+	0.4-
1998 12 16	704	0.9+	0.4+	2000 03 08	704	0.8+	0.9-
1998 12 16	704	1.2+	1.6+	2000 03 08	704	0.6-	0.6+
1998 12 22	704	1.5-	0.7+	2000 03 08	704	0.2-	0.7+
1998 12 22	704	0.6-	0.5-	2000 03 08	704	1.0+	0.2+
1998 12 22	704	1.0-	1.6-	2000 03 11	704	0.3-	0.0
1998 12 22	704	(3.9-	0.9-)	2000 03 11	704	0.1-	0.5+
2000 02 27	703	0.8-	0.1-	2000 03 11	704	0.1-	0.6+
2000 02 27	703	1.1-	0.5-	2000 03 11	704	0.1-	0.6+
2000 02 27	703	0.7+	0.1+	2000 03 11	704	0.4-	0.8+

2000 DF₇₅ = 1997 SL₃₄ = 1998 XC₇₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	178.19307		(2000.0)	P		Q	
<i>n</i>	0.21372014	ω	70.82119	+0.99345912	+0.10796556		
<i>a</i>	2.7705910	Ω	282.96732	−0.11374632	+0.90706073		
<i>e</i>	0.0872529	<i>i</i>	2.18659	−0.01003773	+0.40692048		
<i>P</i>	4.61	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 26	327	0.2+	0.1+	2000 03 03	704	1.8+	0.5+	2000 04 01	732	0.7−	1.4+
1997 09 26	327	0.0	0.3+	2000 03 03	704	0.9+	0.9−	2000 04 01	732	0.2+	1.2−
1997 09 26	327	0.2+	0.2−	2000 03 08	704	(2.3−	3.4−)	2000 04 02	732	0.5−	1.2+
1997 09 27	327	0.0	0.1+	2000 03 08	704	(0.1−	2.9−)	2000 04 03	691	0.7−	1.0−
1997 09 27	327	0.4−	0.3−	2000 03 08	704	1.2−	1.0−	2000 04 03	691	0.6−	1.2−
1998 12 14	704	1.0+	0.2−	2000 03 08	704	1.0−	0.8+	2000 04 03	691	0.7−	1.3−
1998 12 14	704	0.7+	0.2−	2000 03 11	704	0.7−	0.2−	2000 04 04	704	0.7−	1.2+
1998 12 14	704	1.2−	1.1−	2000 03 11	704	0.2−	0.0	2000 04 04	704	0.1+	0.8+
1998 12 14	704	1.8−	0.3−	2000 03 11	704	0.9+	0.4−	2000 04 04	704	0.2−	0.0
1998 12 16	704	0.5+	1.2+	2000 03 11	704	0.2−	0.9+	2000 04 05	704	0.6+	0.0
1998 12 16	704	0.5+	0.5−	2000 03 11	704	0.3+	0.3+	2000 04 05	704	0.8+	0.2+
1998 12 16	704	0.3+	1.1+	2000 03 27	732	(1.0+	2.2−)	2000 04 05	704	0.2+	0.1−
1998 12 16	704	(0.3+	3.4+)	2000 03 27	732	1.1−	0.5+	2000 04 05	704	0.7+	0.1−
2000 02 29	704	0.5−	0.2+	2000 03 27	732	(1.0+	2.3+)	2000 04 05	704	0.0	0.3+
2000 02 29	704	0.4−	0.2−	2000 03 28	732	0.1+	1.0−	2000 04 06	704	0.0	0.2+
2000 02 29	704	0.6−	0.1+	2000 03 28	732	0.1−	1.2−	2000 04 06	704	1.4+	0.9+
2000 02 29	704	0.5+	0.7+	2000 03 28	732	0.0	0.6−	2000 04 06	704	0.8+	0.5+
2000 03 03	704	1.0+	0.1−	2000 04 01	732	0.2−	0.5−				

2000 DU₇₅ = 1996 NQ₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	210.72223		(2000.0)	P		Q	
<i>n</i>	0.17319444	ω	279.52810	+0.79970344	+0.60013589		
<i>a</i>	3.1874747	Ω	43.59494	−0.54032718	+0.73219701		
<i>e</i>	0.1866638	<i>i</i>	1.46624	−0.26176507	+0.32206281		
<i>P</i>	5.69	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 07 14	566	0.1+	0.3+	1997 11 06	704	1.0−	0.3+	2000 03 03	704	0.4+	0.6+
1996 07 14	566	0.2+	0.5+	1997 11 06	704	0.2+	0.4+	2000 03 11	704	0.1+	0.2−
1996 07 14	566	0.5+	0.8+	1997 11 06	704	1.2+	0.3+	2000 03 11	704	0.2+	0.3−
1996 07 23	566	0.5−	0.4+	1997 11 06	704	0.9−	1.3+	2000 03 11	704	0.7−	0.2+
1996 07 23	566	0.6−	0.5+	1997 11 06	704	1.1−	0.2+	2000 03 11	704	0.4+	1.4−
1996 07 23	566	0.4−	0.4+	2000 02 29	704	0.4−	0.0	2000 03 11	704	0.5+	0.1−
1997 08 31	910	0.3+	0.3−	2000 02 29	704	0.3−	0.6+	2000 03 11	699	0.5+	1.3+
1997 08 31	910	0.3+	0.4−	2000 02 29	704	0.6−	0.6+	2000 03 11	699	0.3−	0.0
1997 08 31	910	0.0	0.4−	2000 03 03	704	1.2+	1.3+	2000 03 11	699	0.2+	1.3+
1997 11 02	327	0.1+	0.0	2000 03 03	704	1.2+	0.6−	2000 03 11	699	0.1−	0.5+
1997 11 02	327	0.0	0.0	2000 03 03	704	0.4−	0.3−				
1997 11 02	327	0.4+	1.0+	2000 03 03	704	0.4−	0.4−				

2000 DD₇₆ = 1979 MG₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	310.91566		(2000.0)	P		Q	
<i>n</i>	0.27332359	ω	65.25215	−0.67384906	+0.73839099		
<i>a</i>	2.3515342	Ω	162.30101	−0.70555170	−0.63236897		
<i>e</i>	0.1472469	<i>i</i>	5.01462	−0.21937238	−0.23428238		
<i>P</i>	3.61	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1979 06 24	413	1.6−	0.2+	2000 02 29	704	1.2+	1.0−	2000 03 11	704	0.1−	1.2−
1979 06 29	413	1.5+	0.2−	2000 03 03	704	0.0	0.6+	2000 03 11	704	0.1+	1.0−
2000 02 25	691	0.5−	1.0−	2000 03 03	704	0.4−	0.6+	2000 03 11	699	0.3+	0.3+
2000 02 25	691	0.6−	0.4−	2000 03 03	704	0.3+	0.5+	2000 03 11	699	0.1−	0.1−
2000 02 25	691	0.6−	0.8−	2000 03 03	704	1.0+	0.9+	2000 03 11	699	0.6−	0.8+

2000 02 26	703	1.0−	0.5+	2000 03 03	704	0.1−	1.1+	2000 03 11	699	0.1+	0.1−
2000 02 26	703	0.7+	0.1+	2000 03 03	691	0.1+	0.0	2000 04 03	704	0.1−	0.7+
2000 02 26	703	(2.5+	0.0)	2000 03 03	691	0.2+	0.0	2000 04 03	704	0.5+	0.4+
2000 02 26	703	1.1−	1.1+	2000 03 03	691	0.1+	0.0	2000 04 03	704	0.2+	0.0
2000 02 29	704	0.5+	0.4+	2000 03 11	704	0.4−	0.4−	2000 04 03	704	0.3−	0.9−
2000 02 29	704	0.7+	0.2+	2000 03 11	704	0.2−	0.5−				
2000 02 29	704	0.0	0.1−	2000 03 11	704	0.4−	0.5−				

2000 DU₇₆ = 1052 T-1 = 1994 LK₆Id. G. V. Williams (*MPC* 39468), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	255.50383		(2000.0)	P		Q	
<i>n</i>	0.30507625	ω	50.59146	+0.15262729	+0.98815882		
<i>a</i>	2.1853975	Ω	228.19518	−0.91309006	+0.13491177		
<i>e</i>	0.0831632	<i>i</i>	1.20824	−0.37811565	+0.07308189		
<i>P</i>	3.23	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1971 03 24	675	0.0	1.9−	2000 02 29	704	1.1−	0.2+	2000 03 11	704	0.9+	1.0−
1971 03 25	675	0.4+	0.0	2000 02 29	704	0.1−	0.7+	2000 03 11	704	0.2+	0.0
1971 03 25	675	1.8−	0.5+	2000 02 29	704	0.4−	0.3+	2000 03 11	699	0.5−	0.7+
1971 03 26	675	0.5+	0.8−	2000 03 03	704	0.0	0.7+	2000 03 11	699	0.3+	0.4+
1971 03 27	675	0.3−	0.9−	2000 03 03	704	0.0	0.4+	2000 03 11	699	0.6−	0.6+
1994 06 03	809	0.1+	0.4−	2000 03 03	704	0.1+	0.2−	2000 03 11	699	0.5−	0.1−
1994 06 03	809	0.4+	1.2+	2000 03 03	704	0.5−	0.2−	2000 03 12	704	0.8+	0.4+
1994 06 03	809	1.3−	0.1+	2000 03 03	704	0.1−	0.5−	2000 03 12	704	0.6+	0.2−
1994 06 04	809	0.6−	0.1+	2000 03 11	704	0.3+	0.2+	2000 03 12	704	0.5+	0.2−
1994 06 04	809	0.1+	0.3−	2000 03 11	704	0.4+	0.2+	2000 03 12	704	0.7+	0.6+
1994 06 04	809	0.5−	0.1−	2000 03 11	704	0.1+	0.2−	2000 03 12	704	0.1+	0.2+

2000 DV₇₆ = 1992 EM₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	337.98745		(2000.0)	P		Q	
<i>n</i>	0.12498823	ω	235.45116	−0.95644543	+0.28984238		
<i>a</i>	3.9617765	Ω	321.36461	−0.24630729	−0.86508833		
<i>e</i>	0.1290547	<i>i</i>	3.18520	−0.15666796	−0.40940637		
<i>P</i>	7.89	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 03 02	809	0.4+	1.6+	2000 03 03	704	0.1+	0.4−	2000 03 11	699	0.0	0.0
1992 03 05	809	0.2−	1.2−	2000 03 03	704	0.1+	0.5−	2000 03 11	704	0.1+	0.2−
2000 02 27	703	0.4−	0.5−	2000 03 05	704	(2.3+	0.3+)	2000 03 11	699	1.5−	0.5+
2000 02 27	703	0.3+	1.7+	2000 03 05	704	1.0+	0.2+	2000 04 05	704	1.8+	0.5+
2000 02 27	703	0.5−	0.5+	2000 03 05	704	0.6−	0.9+	2000 04 05	704	0.3−	0.3−
2000 02 27	703	0.9+	0.8+	2000 03 05	704	0.3−	1.6+	2000 04 05	704	0.7−	0.3+
2000 02 29	704	0.0	0.8−	2000 03 11	704	0.3+	0.2+	2000 04 05	704	0.3−	0.4+
2000 02 29	704	0.7+	1.8−	2000 03 11	699	0.2+	0.2−	2000 04 05	704	0.1−	0.3+
2000 02 29	704	0.9−	1.5−	2000 03 11	704	0.2+	0.5−	2000 04 06	704	0.3+	0.9−
2000 03 03	704	0.5+	0.4−	2000 03 11	704	0.1−	0.2−	2000 04 06	704	0.4−	0.6+
2000 03 03	704	0.4+	0.5−	2000 03 11	699	1.2−	0.3+	2000 04 06	704	0.2+	0.2+
2000 03 03	704	0.3+	0.5−	2000 03 11	704	0.1−	0.2−				

2000 DO₇₇ = 1994 TQ = 1998 XR₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	189.21504		(2000.0)	P		Q	
<i>n</i>	0.26526140	ω	317.29346	+0.93318203	+0.35892639		
<i>a</i>	2.3989435	Ω	21.69321	−0.31474844	+0.84103107		
<i>e</i>	0.1733313	<i>i</i>	2.87256	−0.17350711	+0.40476980		
<i>P</i>	3.72	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 10 02	400	(0.3+	4.9+)	1998 12 17	704	0.7+	0.6−	2000 03 04	704	0.1−	0.5

2000 APR. 18

M.P.C. 40123

1994 10 07	400	0.7+	0.1−	2000 02 11	704	0.6+	0.8+	2000 03 04	704	0.2+	0.5−
1994 10 07	400	1.3+	1.7−	2000 02 11	704	0.5+	0.0	2000 03 04	704	0.1−	0.1+
1994 10 11	397	(0.0	2.0+)	2000 02 11	704	0.7−	1.4−	2000 03 04	704	0.1−	0.1−
1994 10 11	397	0.6+	0.5−	2000 02 29	704	0.0	0.0	2000 03 11	699	0.3+	0.0
1998 11 24	704	0.1+	0.2+	2000 02 29	704	0.0	0.5−	2000 03 11	699	0.0	0.4−
1998 11 24	704	0.3+	0.6+	2000 02 29	704	0.2+	0.6−	2000 03 11	699	0.2−	0.5−
1998 11 24	704	0.5+	1.2+	2000 02 29	704	0.6−	0.2+	2000 03 11	699	0.3−	0.5−
1998 11 24	704	0.5+	1.6+	2000 03 03	704	0.6+	0.2+	2000 04 02	699	1.4−	0.6−
1998 11 24	704	(5.7−	3.9−)	2000 03 03	704	0.2+	0.0	2000 04 02	699	0.7−	0.9−
1998 12 14	704	0.1−	0.5−	2000 03 03	704	0.1−	0.0	2000 04 02	699	0.2+	0.9−
1998 12 14	704	0.2−	1.0−	2000 03 03	704	0.0	0.0	2000 04 02	699	0.4−	1.2+
1998 12 14	704	0.4−	1.5+	2000 03 03	704	0.2+	0.3+	2000 04 03	704	0.7−	0.5+
1998 12 14	704	0.4−	0.4+	2000 03 04	704	0.9+	0.8+	2000 04 03	704	0.4−	0.6−
1998 12 14	704	(2.8−	1.6+)	2000 03 04	704	0.6+	0.8+	2000 04 03	704	1.3+	0.1+
1998 12 17	704	0.9−	0.5+	2000 03 04	704	0.3−	0.4−	2000 04 03	704	0.6−	0.5+

2000 DY₇₇ = 1998 YZ₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.54470		(2000.0)		P		Q
<i>n</i>	0.17697354	ω	304.32444		−0.41737395		−0.90868411
<i>a</i>	3.1419347	Ω	170.33017		+0.85139864		−0.39471138
<i>e</i>	0.1514430	<i>i</i>	3.27660		+0.31767806		−0.13600042
<i>P</i>	5.57	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 01 11	691	0.3−	0.1−	1998 12 19	691	0.2+	0.2−	2000 03 10	691	0.8−	0.3−
1994 01 11	691	1.7+	0.3−	1998 12 22	691	0.4−	0.3−	2000 03 10	691	0.5−	0.6−
1994 01 11	691	1.4−	0.6+	1998 12 22	691	0.3+	0.0	2000 03 10	691	0.8−	0.6−
1998 11 21	704	1.0+	1.6+	1998 12 22	691	0.1+	0.2+	2000 03 11	704	0.8+	0.5+
1998 11 21	704	0.5+	0.1+	2000 02 27	703	1.3−	0.7+	2000 03 11	699	0.2−	1.3+
1998 11 21	704	0.7+	0.8+	2000 02 27	703	0.9+	0.4−	2000 03 11	704	0.7+	0.1+
1998 11 21	704	(3.3−	2.0+)	2000 02 27	703	1.0−	0.3−	2000 03 11	704	0.7+	0.2−
1998 11 23	699	0.1+	0.1+	2000 02 27	703	1.8−	0.4+	2000 03 11	699	0.3−	0.1+
1998 11 23	699	(3.3+	0.1+)	2000 02 29	704	0.8−	0.3−	2000 03 11	704	0.3+	0.4−
1998 11 23	699	0.4+	0.1+	2000 02 29	704	0.1−	0.4+	2000 03 11	699	0.0	0.3−
1998 11 24	704	1.3−	0.3−	2000 02 29	704	0.4+	0.8+	2000 03 11	704	0.3+	0.3−
1998 11 24	704	1.0−	0.2−	2000 03 03	704	0.8+	0.2+	2000 03 11	699	0.2+	0.8+
1998 11 24	704	0.4−	1.9−	2000 03 03	704	0.4+	0.1−	2000 04 05	704	0.2−	1.7−
1998 11 24	704	(6.9−	1.6−)	2000 03 03	704	0.3+	0.2+	2000 04 05	704	0.1−	0.7+
1998 12 19	691	0.0	0.3−	2000 03 03	704	0.3+	0.5+	2000 04 05	704	0.8+	0.5−
1998 12 19	691	0.1−	0.3−	2000 03 03	704	0.9+	0.1−	2000 04 05	704	0.2+	0.7−

2000 DA₇₉ = 1982 PC₁ = 1987 RB = 1997 YE₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	200.00083		(2000.0)		P		Q
<i>n</i>	0.20094249	ω	153.25288		+0.91902083		+0.39415920
<i>a</i>	2.8868321	Ω	183.55126		−0.37736698		+0.87505023
<i>e</i>	0.1546842	<i>i</i>	5.80496		−0.11399511		+0.28093703
<i>P</i>	4.90	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1982 08 15	095	(3.2−	1.9+)	1999 11 08	703	0.5+	0.6+	2000 04 03	691	1.6−	0.9−
1987 08 27	095	1.1+	2.1−	2000 02 08	704	0.4+	0.0	2000 04 03	691	0.7−	0.2−
1987 09 01	046	0.0	0.7+	2000 02 08	704	1.6−	0.8−	2000 04 03	691	0.6−	0.0
1987 09 01	046	(3.4−	0.2−)	2000 02 08	704	0.2−	0.4−	2000 04 04	704	0.5+	0.4+
1987 09 02	809	(1.7−	2.9+)	2000 02 08	704	0.5+	0.0	2000 04 04	704	0.4+	0.2+
1987 09 02	809	(1.0−	4.1+)	2000 02 08	704	0.4−	0.8−	2000 04 04	704	0.0	0.6+
1987 09 02	809	(0.7−	3.6+)	2000 02 29	704	0.7+	0.5−	2000 04 04	704	0.1−	0.5+
1987 09 02	095	0.2+	0.8+	2000 02 29	704	0.1−	0.4+	2000 04 04	704	0.5+	1.1+
1992 09 03	095	(0.2+	2.9−)	2000 02 29	704	0.0	1.3+	2000 04 05	704	0.2+	1.5−
1992 09 03	095	1.2−	0.5−	2000 03 03	704	0.2+	0.3+	2000 04 05	704	0.3−	0.1+
1997 09 30	566	0.3+	0.4+	2000 03 03	704	0.3+	0.1+	2000 04 05	704	0.2+	0.4−
1997 09 30	566	0.1+	0.4+	2000 03 03	704	0.5+	0.3+	2000 04 05	704	0.6+	0.5−
1997 09 30	566	0.7+	0.1−	2000 03 03	704	0.5+	0.3+	2000 04 05	704	0.1+	0.7−
1997 12 27	566	0.1+	0.1−	2000 03 03	704	0.5+	0.1+	2000 04 06	704	0.3−	0.3+
1997 12 27	566	0.2+	0.1+	2000 03 06	608	0.3−	0.8−	2000 04 06	704	0.7+	0.2+

1997 12 27	566	0.4+	0.6−	2000 03 06	608	0.4−	0.7−	2000 04 06	704	0.3+	0.7−
1997 12 28	566	0.5−	0.1+	2000 03 06	608	0.4−	0.6−	2000 04 06	704	0.4+	0.3−
1997 12 28	566	0.7−	0.0	2000 03 08	704	0.3+	0.5−	2000 04 06	704	0.0	0.3−
1997 12 28	566	0.6−	0.3+	2000 03 08	704	0.3−	0.6+	2000 04 08	704	0.6+	0.5+
1998 12 22	704	0.8+	1.2−	2000 03 08	704	0.3−	0.1+	2000 04 08	704	0.3+	0.4−
1998 12 22	704	0.6+	1.0−	2000 03 08	704	0.2+	1.0+	2000 04 08	704	0.3+	0.1−
1998 12 22	704	0.7−	1.1+	2000 03 11	704	0.1−	0.3+	2000 04 08	704	0.0	0.3−
1998 12 22	704	(1.2+	4.4+)	2000 03 11	704	0.3−	0.2+	2000 04 08	704	0.5+	0.5+
1999 11 08	703	0.5−	0.5+	2000 03 11	704	0.5−	0.2−	2000 04 12	608	0.3+	0.4−
1999 11 08	703	1.2−	0.0	2000 03 11	704	0.4−	0.1−	2000 04 12	608	0.2+	0.1+
1999 11 08	703	1.9−	0.3+	2000 03 11	704	0.5−	0.3−	2000 04 12	608	0.0	0.1+

2000 DB₇₉ = 1984 SO₈ = 1999 BJ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	203.03622		(2000.0)		P		Q
<i>n</i>	0.22420965	ω	157.45938		+0.91134559		+0.41158455
<i>a</i>	2.6834892	Ω	178.19207		−0.40306528		+0.89562800
<i>e</i>	0.1776520	<i>i</i>	12.60206		−0.08359189		+0.16866726
<i>P</i>	4.40	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1984 09 21	010	0.1−	0.7+	2000 02 29	704	0.2−	1.2−	2000 04 02	699	0.4+	1.0+
1998 12 15	704	1.2+	0.7−	2000 03 03	704	0.6−	0.0	2000 04 05	704	0.2−	0.4+
1998 12 15	704	1.4−	0.6−	2000 03 03	704	0.1−	0.1−	2000 04 05	704	0.1−	0.3+
1998 12 15	704	0.5+	0.1+	2000 03 03	704	0.5−	0.6+	2000 04 05	704	0.2−	0.5+
1998 12 15	704	1.3−	1.3−	2000 03 08	704	0.6−	0.1+	2000 04 05	704	0.2−	0.2+
1999 01 18	704	1.2+	1.8+	2000 03 08	704	0.0	0.6+	2000 04 05	704	0.1−	0.2+
1999 01 18	704	0.4−	0.1−	2000 03 08	704	0.3+	0.3+	2000 04 05	704	0.2−	0.1+
1999 01 18	704	1.3+	1.2−	2000 03 08	704	0.8+	1.6+	2000 04 05	704	0.1−	0.6−
1999 01 18	704	(3.7−	1.0−)	2000 03 08	704	0.7+	0.3+	2000 04 05	704	0.3+	0.2−
1999 01 20	704	1.6−	0.2−	2000 03 10	608	(0.1+	3.3−)	2000 04 05	704	0.5−	0.1+
1999 01 20	704	0.8+	1.8+	2000 03 10	608	0.3−	1.8−	2000 04 05	704	1.3+	0.0
1999 01 20	704	0.3−	0.5+	2000 03 10	608	0.1−	0.9−	2000 04 06	704	0.8+	0.7+
2000 02 08	704	0.6+	0.0	2000 03 11	704	0.1+	0.3+	2000 04 06	704	0.3+	0.2+
2000 02 08	704	0.2+	0.0	2000 03 11	704	0.0	0.1+	2000 04 06	704	0.0	0.3+
2000 02 08	704	0.2−	0.4−	2000 03 11	704	0.1−	0.3−	2000 04 06	704	0.4+	0.3+
2000 02 08	704	0.1+	0.0	2000 03 11	704	0.3+	0.1+	2000 04 06	704	0.3+	0.6+
2000 02 08	704	0.5+	0.8+	2000 03 11	704	0.1+	0.1+	2000 04 07	608	0.2+	0.5−
2000 02 27	703	0.9−	0.0	2000 03 25	691	0.6−	0.6−	2000 04 07	608	0.0	0.3−
2000 02 27	703	0.1+	0.1−	2000 03 25	691	0.7−	0.7−	2000 04 07	608	0.3−	0.0
2000 02 27	703	0.1+	0.4−	2000 03 25	691	0.7−	0.6−	2000 04 10	704	0.4+	0.4−
2000 02 27	703	0.4−	0.1+	2000 04 02	699	0.6+	0.4+	2000 04 10	704	0.2+	0.2−
2000 02 29	704	1.5−	0.5−	2000 04 02	699	0.1+	0.7+	2000 04 10	704	0.4−	0.0
2000 02 29	704	0.5+	0.4−	2000 04 02	699	0.2+	0.2+	2000 04 10	704	0.1−	0.6−

2000 DK₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	73.99338		(2000.0)		P		Q
n	0.41628606	ω	2.37589		+0.71072809		−0.36677560
a	1.7764029	Ω	43.50437		+0.63018651		−0.04725445
e	0.4141662	i	60.69034		+0.31261884		+0.92910854
P	2.37	H	15.8	G	0.15	U	5

2000 DN₇₉ = 1976 SH₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	132.19297		(2000.0)	P		Q	
<i>n</i>	0.30953811	ω	1.13624	+0.99942342	+0.03359928		
<i>a</i>	2.1643457	Ω	356.92550	−0.03182652	+0.87688096		
<i>e</i>	0.1692941	<i>i</i>	5.23130	−0.01182786	+0.47953193		
<i>P</i>	3.18	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1976 09 24	095	1.4−	1.2+	2000 02 28	704	0.2+	0.3−	2000 03 04	704	0.6+	0.7+
1976 09 29	095	1.3+	1.0−	2000 02 28	704	0.3+	0.7+	2000 03 08	608	0.3+	1.2−
2000 02 11	704	0.0	0.7+	2000 02 28	704	0.3+	0.7+	2000 03 08	608	0.3+	0.4−
2000 02 11	704	0.5−	0.2−	2000 02 28	704	0.2−	0.6+	2000 03 08	608	0.0	1.0−
2000 02 11	704	0.2+	1.0+	2000 03 04	704	0.4+	0.0	2000 03 26	699	0.0	0.3+
2000 02 11	704	0.2−	0.2−	2000 03 04	704	0.3−	0.2−	2000 03 26	699	0.5−	0.3−
2000 02 11	704	1.0−	1.7−	2000 03 04	704	0.0	0.5−	2000 03 26	699	0.2+	0.5+
2000 02 28	704	0.4−	0.2+	2000 03 04	704	0.3+	0.0	2000 03 26	699	0.3+	0.8+

2000 DP₈₂ = 1993 FO₅₄ = 1997 JS₁₁ = 1998 RB₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	76.23847		(2000.0)	P		Q	
<i>n</i>	0.26841598	ω	342.77388	+0.49466669	−0.86719835		
<i>a</i>	2.3801106	Ω	77.54560	+0.80410953	+0.43172274		
<i>e</i>	0.0984577	<i>i</i>	3.35825	+0.32971613	+0.24815821		
<i>P</i>	3.67	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 03 17	809	0.9−	0.9+	1998 09 18	704	0.7−	0.7+	2000 02 11	704	0.3+	0.3+
1993 03 18	809	1.2+	0.5−	1998 09 18	704	0.0	1.6+	2000 02 11	704	0.5+	0.5+
1993 03 23	809	0.2−	1.1−	1998 09 18	704	0.8+	0.3+	2000 02 11	704	0.6+	0.7+
1997 04 11	704	1.0+	0.3−	1998 09 18	704	0.8−	1.0−	2000 02 25	703	0.5+	0.5+
1997 04 11	704	0.8+	0.1+	1998 09 18	704	(2.4−	2.2+)	2000 02 25	703	0.1+	1.0+
1997 05 03	809	0.2−	0.8+	1998 09 22	699	0.4+	2.0+	2000 02 25	703	0.1−	0.1+
1997 05 03	809	0.8−	0.0	1998 09 22	699	(0.6−	2.7+)	2000 02 25	703	0.8−	0.5+
1997 05 03	809	1.5−	1.2+	1998 09 22	699	0.9−	1.3+	2000 02 28	704	0.5+	0.4+
1997 05 04	809	(1.1+	2.7+)	1999 11 16	704	0.8−	0.1+	2000 02 28	704	0.1−	0.1+
1997 05 04	809	1.1+	0.6+	1999 11 16	704	0.2−	0.4−	2000 02 28	704	0.2+	0.5+
1997 05 04	809	0.1+	1.6+	1999 11 16	704	0.6−	1.1+	2000 02 28	704	0.0	0.3+
1998 08 17	704	0.9−	0.2+	2000 02 03	704	0.3+	0.0	2000 03 04	704	0.7+	0.4+
1998 08 17	704	0.5−	1.4+	2000 02 03	704	0.4+	0.0	2000 03 04	704	0.2+	0.0
1998 08 17	704	0.3−	1.0+	2000 02 03	704	0.0	0.8+	2000 03 04	704	0.7+	0.2−
1998 08 17	704	0.1+	0.5+	2000 02 03	704	0.8+	0.3+	2000 03 04	704	0.1+	0.3−
1998 08 17	704	1.1−	0.7+	2000 02 03	704	0.4+	0.6+	2000 03 04	704	0.1+	0.1−
1998 09 14	704	0.5+	0.7+	2000 02 05	695	0.4−	0.3+	2000 03 12	704	0.4+	0.4+
1998 09 14	704	1.7−	0.4−	2000 02 05	695	0.6+	0.3+	2000 03 12	704	0.5−	0.5+
1998 09 14	704	0.1−	1.1+	2000 02 11	704	0.4+	0.4+	2000 03 12	704	0.7−	1.2+
1998 09 14	704	0.9+	1.1+	2000 02 11	704	0.4−	1.0+				

2000 DY₈₄ = 1993 FJ₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	52.84519		(2000.0)	P		Q	
<i>n</i>	0.26776555	ω	70.36919	+0.17568164	−0.98429206		
<i>a</i>	2.3839634	Ω	9.56296	+0.85923964	+0.14465384		
<i>e</i>	0.1572299	<i>i</i>	6.03523	+0.48046144	+0.10121462		
<i>P</i>	3.68	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	0.3−	0.1−	2000 02 06	703	0.7−	0.1+	2000 02 29	704	0.2−	0.7−
1993 03 22	809	0.3+	0.1+	2000 02 06	703	0.4+	0.5−	2000 02 29	704	0.4−	0.5−
2000 02 03	704	0.0	0.2−	2000 02 11	704	0.0	0.8+	2000 03 04	704	0.1+	0.7+
2000 02 03	704	0.7+	0.2−	2000 02 11	704	0.5+	0.6−	2000 03 04	704	0.1+	0.7+
2000 02 03	704	0.2−	0.7−	2000 02 11	704	0.9−	0.4+	2000 03 04	704	0.3+	0.2+
2000 02 03	704	0.2+	0.1−	2000 02 11	704	0.2+	0.8+	2000 03 04	704	0.0	0.5−
2000 02 03	704	0.8−	0.0	2000 02 29	704	0.4+	0.1+	2000 03 04	704	0.2−	0.2−

2000 02 06	703	0.0	0.6+	2000 02 29	704	0.5+	0.1−
2000 02 06	703	0.5+	0.0	2000 02 29	704	0.6−	0.3−

2000 DE₈₅ = 1998 SG₁₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	289.92225		(2000.0)	P		Q	
<i>n</i>	0.27468490	ω	163.37628	−0.69641063	+0.71520731		
<i>a</i>	2.3437585	Ω	62.43895	−0.66577678	−0.61315520		
<i>e</i>	0.0555212	<i>i</i>	3.82134	−0.26786847	−0.33543883		
<i>P</i>	3.59	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	0.9+	0.9+	2000 02 03	704	0.9+	0.5+	2000 02 25	703	1.2−	0.2+
1998 09 26	704	0.4−	1.6−	2000 02 06	703	0.1−	0.1+	2000 02 25	703	1.6−	0.7+
1998 09 26	704	1.1+	0.4+	2000 02 06	703	0.0	0.3−	2000 02 29	704	0.1−	0.0
1998 09 26	704	0.1+	0.1+	2000 02 06	703	0.4+	0.1−	2000 02 29	704	0.2+	0.2+
1998 09 26	704	0.0	0.2−	2000 02 06	703	0.3−	0.1+	2000 02 29	704	0.9+	0.4+
1998 09 27	704	0.0	0.6+	2000 02 11	704	1.6+	0.7+	2000 02 29	704	0.2+	0.2−
1998 09 27	704	(0.5−	2.4+)	2000 02 11	704	0.2−	1.0+	2000 02 29	704	0.1+	0.2+
1998 09 27	704	(1.1−	2.2−)	2000 02 11	704	1.0+	0.3−	2000 03 04	704	0.4+	0.2+
1998 09 27	704	1.6−	0.2−	2000 02 11	704	0.8−	0.9−	2000 03 04	704	0.6+	0.0
2000 02 03	704	0.1+	0.2−	2000 02 11	704	0.1−	0.6−	2000 03 04	704	0.2+	0.2−
2000 02 03	704	0.1−	0.2−	2000 02 25	703	1.8−	0.1−	2000 03 04	704	1.0+	0.0
2000 02 03	704	0.4−	0.2−	2000 02 25	703	1.9−	0.4−	2000 03 04	704	1.0+	0.7−

2000 DO₈₆ = 1995 UY₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	52.87396		(2000.0)	P		Q	
<i>n</i>	0.29405378	ω	51.90079	+0.06428551	−0.99593900		
<i>a</i>	2.2396743	Ω	34.57202	+0.87729423	+0.02629775		
<i>e</i>	0.1369258	<i>i</i>	6.37751	+0.47562823	+0.08610419		
<i>P</i>	3.35	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 10 20	691	0.1−	0.0	2000 02 29	704	0.3−	0.2−	2000 03 11	699	0.2−	0.4−
1995 10 20	691	0.1+	0.0	2000 02 29	704	0.4+	0.1−	2000 03 12	704	0.5−	0.3−
1995 10 20	691	0.2−	0.0	2000 02 29	704	0.1+	0.0	2000 03 12	704	0.1+	0.2−
1995 10 25	691	0.1+	0.2+	2000 02 29	704	0.3+	0.5+	2000 03 12	704	0.1+	0.3−
1995 10 25	691	0.1+	0.0	2000 03 04	704	0.4−	0.1+	2000 03 12	704	0.1+	0.3+
1995 10 25	691	0.1−	0.1+	2000 03 04	704	0.2−	0.1+	2000 03 12	704	0.1+	0.0
2000 02 03	704	0.0	0.3−	2000 03 04	704	0.0	0.3+	2000 04 04	704	0.2+	0.6+
2000 02 03	704	0.2+	0.2+	2000 03 04	704	0.3+	0.5+	2000 04 04	704	0.3−	0.1−
2000 02 03	704	0.2+	0.2+	2000 03 04	704	0.1+	0.6+	2000 04 04	704	0.1−	0.5+
2000 02 03	704	0.2−	0.4−	2000 03 11	699	0.1+	0.1−	2000 04 04	704	1.1+	0.3−
2000 02 03	704	0.2−	0.3−	2000 03 11	699	0.5−	0.0				
2000 02 29	704	0.2+	0.2−	2000 03 11	699	0.5−	0.1−				

2000 DY₈₇ = 1980 WK₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	99.71024		(2000.0)	P		Q					
n	0.26658720	ω	299.09478	+0.84658472	−0.51837034						
a	2.3909832	Ω	92.36721	+0.52063639	+0.75935467						
e	0.1495984	i	6.94276	+0.11059867	+0.39328447						
P	3.70	H	15.0	G	0.15	U	4				
Residuals in seconds of arc											
1980 11 29	675	0.2−	0.3+	2000 02 03	704	0.2−	0.1−	2000 02 29	704	0.0	0.3+
1980 12 01	675	0.1+	0.3−	2000 02 03	704	1.4+	0.3+	2000 02 29	704	0.1+	0.2+
1993 03 23	010	(3.9−	1.3+)	2000 02 06	703	1.0−	0.2−	2000 02 29	704	0.3−	0.4+
1993 03 23	010	0.2−	0.4−	2000 02 06	703	0.8−	1.3−	2000 03 04	704	0.1+	0.1+
1993 03 23	010	(1.5+	3.7−)	2000 02 06	703	1.7−	0.4+	2000 03 04	704	0.3+	0.1+
1997 04 07	809	(10.8+	0.4−)	2000 02 06	703	0.4+	1.3+	2000 03 04	704	1.1+	0.4+
1997 04 07	809	(10.6+	0.6+)	2000 02 11	704	0.4+	0.4+	2000 03 04	704	0.1+	0.1−
1997 04 07	809	(8.8+	0.6+)	2000 02 11	704	0.2+	0.8−	2000 03 04	704	0.0	0.0
1999 12 04	703	0.0	0.3−	2000 02 11	704	1.0+	0.2+	2000 03 12	703	0.1+	0.4+

2000 APR. 18

1999 12 04	703	0.4+	0.2+	2000 02 11	704	0.0	1.4-	2000 03 12	703	0.8-	0.6+
1999 12 04	703	0.5-	0.2-	2000 02 11	704	0.0	0.3+	2000 03 12	703	0.1-	0.3+
1999 12 04	703	(2.4+	0.6+)	2000 02 29	704	0.1+	0.6-	2000 03 12	703	0.6-	0.7+
2000 02 03	704	0.2-	0.5-	2000 02 29	704	0.3+	0.5-				

2000 DS₉₂ = 1997 LU₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	150.01280	(2000.0)		P	Q		
<i>n</i>	0.24482399	ω	191.28071	+0.99981034	+0.00929462		
<i>a</i>	2.5306576	Ω	168.14660	-0.00329792	+0.94687592		
<i>e</i>	0.1970001	<i>i</i>	4.77926	-0.01919383	+0.32146479		
<i>P</i>	4.03	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 06 07	691	0.1+	0.7-	1997 06 11	691	0.3-	0.0	2000 02 28	691	0.1-	0.2-
1997 06 07	691	0.1-	0.3-	1997 06 11	691	0.2+	0.3+	2000 03 04	691	0.2+	0.1+
1997 06 07	691	0.1-	0.5+	2000 02 28	691	0.1-	0.2-	2000 03 04	691	0.0	0.0
1997 06 11	691	0.1+	0.2+	2000 02 28	691	0.1+	0.2+	2000 03 04	691	0.1-	0.0

2000 DY₉₂ = 1998 VH₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	350.48130	(2000.0)		P	Q		
<i>n</i>	0.22241106	ω	87.71888	-0.89010532	-0.45292478		
<i>a</i>	2.6979370	Ω	65.34601	+0.39282875	-0.81886086		
<i>e</i>	0.0044780	<i>i</i>	3.19865	+0.23108026	-0.35259899		
<i>P</i>	4.43	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 20	699	0.5+	0.1-	2000 01 30	703	0.6-	0.9-	2000 02 11	704	0.3-	0.3+
1998 10 20	699	0.2+	0.1+	2000 01 30	703	1.4+	0.0	2000 02 28	704	1.2+	0.3+
1998 10 20	699	0.7+	0.3+	2000 02 03	704	0.6-	0.2-	2000 02 28	704	0.0	0.3-
1998 11 10	704	1.2+	0.5+	2000 02 03	704	0.1-	0.2+	2000 02 28	704	0.2+	0.3-
1998 11 10	704	(2.2+	0.9+)	2000 02 03	704	0.4-	0.3+	2000 02 28	704	0.1-	0.2-
1998 11 10	704	0.6+	0.1+	2000 02 03	704	0.1+	0.3+	2000 02 28	704	0.3-	0.3-
1998 11 10	704	0.4-	1.4+	2000 02 03	704	0.1-	0.2-	2000 03 05	704	0.2+	0.4-
1998 11 11	704	0.9-	0.0	2000 02 08	049	(1.0+	2.5-)	2000 03 05	704	0.4+	0.1-
1998 11 11	704	0.6+	1.2-	2000 02 08	049	(1.7+	2.5-)	2000 03 05	704	0.3+	0.2-
1998 11 11	704	0.9-	1.5-	2000 02 09	049	0.7+	0.6-	2000 03 05	704	0.2-	0.6+
1998 11 11	704	1.6-	0.4+	2000 02 11	704	0.3-	0.1+	2000 03 05	704	0.1-	0.7+
2000 01 30	703	0.1+	0.2-	2000 02 11	704	0.9-	0.5+				
2000 01 30	703	0.4-	0.5+	2000 02 11	704	0.2-	0.2+				

2000 DM₉₃ = 1998 YY₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	273.37433	(2000.0)		P	Q		
<i>n</i>	0.23222756	ω	157.33979	-0.29517738	+0.95328688		
<i>a</i>	2.6213612	Ω	95.44424	-0.88617998	-0.24806603		
<i>e</i>	0.1637867	<i>i</i>	3.69439	-0.35714893	-0.17235828		
<i>P</i>	4.24	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 22	327	0.0	0.5+	2000 02 03	704	0.1-	0.4-	2000 02 25	703	0.6+	0.4+
1998 12 22	327	0.7-	0.2+	2000 02 03	704	0.5+	1.1-	2000 02 25	703	0.0	1.1+
1998 12 22	327	0.1-	0.4+	2000 02 03	704	0.1+	0.2-	2000 02 25	703	(2.1-	1.5+)
1998 12 23	691	0.3+	0.2+	2000 02 03	704	0.4+	0.6+	2000 02 25	703	0.4+	0.0
1998 12 23	691	0.2+	0.0	2000 02 06	703	0.0	0.2+	2000 02 28	704	0.2-	0.3-
1998 12 23	691	0.1+	0.2-	2000 02 06	703	0.6-	0.2-	2000 02 28	704	0.0	0.0
1998 12 24	327	0.5-	0.0	2000 02 06	703	0.4-	0.7-	2000 02 28	704	0.3-	0.2-
1998 12 24	327	0.0	0.1-	2000 02 06	703	1.1-	0.8+	2000 02 28	704	0.3-	0.2-
1998 12 24	327	0.2-	0.1+	2000 02 11	704	0.0	0.4-	2000 02 28	704	0.1-	0.0
1998 12 26	327	0.7+	0.2-	2000 02 11	704	0.1+	1.0+	2000 03 05	704	0.4-	0.3-
1998 12 26	327	0.2+	0.5-	2000 02 11	704	0.1+	0.4+	2000 03 05	704	0.5+	0.5+
1998 12 26	327	0.2-	0.2-	2000 02 11	704	0.0	0.2-	2000 03 05	704	0.8+	0.4-
2000 02 03	704	0.9+	0.3-	2000 02 11	704	0.3-	0.3+	2000 03 05	704	0.7-	0.4-

M.P.C. 40125

2000 DU₉₃ = 1998 XA₈₅

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	210.64079	(2000.0)		P	Q		
<i>n</i>	0.21124441	ω	174.65660	+0.60276890	+0.78897049		
<i>a</i>	2.7921959	Ω	132.34725	-0.73791542	+0.60800093		
<i>e</i>	0.2126374	<i>i</i>	9.27692	-0.30356298	+0.08865909		
<i>P</i>	4.67	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	(2.2+	0.6-)	2000 01 07	704	1.2+	0.4+	2000 03 05	704	0.5-	0.7+
1998 12 15	704	0.3+	0.7+	2000 01 07	704	0.2+	0.2-	2000 03 05	704	0.3-	1.0+
1998 12 15	704	0.6-	0.5-	2000 02 11	704	1.0+	1.4-	2000 03 05	704	0.1+	0.3+
1998 12 15	704	(2.6-	2.0+)	2000 02 11	704	0.2-	0.3-	2000 03 05	704	0.8+	0.3+
1998 12 22	704	0.8-	0.2+	2000 02 11	704	0.8-	0.4-	2000 03 09	704	0.2+	0.3+
1998 12 22	704	0.3+	1.1-	2000 02 11	704	1.0-	0.5+	2000 03 09	704	0.4+	0.4+
1998 12 22	704	0.6+	0.3-	2000 02 28	704	0.5+	0.2+	2000 03 09	704	0.3-	0.0
1998 12 22	704	0.2-	0.6+	2000 02 28	704	0.1+	0.5-	2000 03 09	704	0.1-	0.0
1998 12 22	704	0.4+	0.4+	2000 02 28	704	0.2+	0.2-	2000 03 09	704	0.0	0.2-
2000 01 07	704	0.4-	0.2-	2000 02 28	704	0.1-	0.5-	2000 03 12	704	0.2-	0.2-
2000 01 07	704	0.3-	0.4+	2000 02 28	704	0.0	0.3-	2000 03 12	704	0.3+	0.9-
2000 01 07	704	0.2-	0.4+	2000 03 05	704	0.4-	1.0+	2000 03 12	704	0.1-	0.2-

2000 DG₉₅ = 1998 QD₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	117.50127	(2000.0)		P	Q		
<i>n</i>	0.29101083	ω	22.15354	+0.93232278	-0.36162332		
<i>a</i>	2.2552600	Ω	359.04159	+0.31492899	+0.81419930		
<i>e</i>	0.1483727	<i>i</i>	5.75430	+0.17774693	+0.45421149		
<i>P</i>	3.39	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	(1.2+	2.8-)	2000 02 06	703	0.1-	0.1+	2000 02 25	703	0.0	0.3-
1998 08 17	704	1.0-	1.6+	2000 02 06	703	0.4-	1.1+	2000 02 28	704	1.5+	0.7+
1998 08 17	704	0.5-	0.0	2000 02 06	703	0.3+	1.7+	2000 02 28	704	0.6+	1.0-
1998 08 17	704	0.3-	0.5+	2000 02 06	703	1.6-	0.4-	2000 02 28	704	(2.7+	0.1-)
1998 08 23	704	0.7-	0.1+	2000 02 11	704	0.8+	0.5+	2000 03 05	704	0.0	1.2+
1998 08 23	704	0.5+	0.2-	2000 02 11	704	0.1-	0.1+	2000 03 05	704	0.6+	1.0-
1998 08 23	704	0.5-	0.2-	2000 02 11	704	0.3+	0.3+	2000 03 05	704	0.2+	0.2+
1998 08 23	704	0.6-	1.3-	2000 02 11	704	0.7-	1.3+	2000 03 05	704	0.3+	0.3-
1998 09 24	699	0.3+	0.8+	2000 02 25	703	1.1-	0.2+	2000 03 05	704	0.3+	0.8-
1998 09 24	699	0.6+	0.7+	2000 02 25	703	0.9+	0.2-				
1998 09 24	699	1.1+	1.4+	2000 02 25	703	0.1+	0.2+				

2000 DE₉₆ = 1993 FF₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	46.28080	(2000.0)		P	Q		
<i>n</i>	0.26894854	ω	133.40039	+0.00658503	-0.99859900		
<i>a</i>	2.3769676	Ω	316.13938	+0.89417105	+0.02938603		
<i>e</i>	0.0907360	<i>i</i>	4.34568	+0.44767708	-0.04400568		
<i>P</i>	3.66	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	1.3-	0.7+	2000 02 11	704	0.4-	0.0	2000 02 29	704	0.1+	1.1+
1993 03 22	809	1.3+	0.8-	2000 02 12	691	0.3-	0.9-	2000 03 05	704	1.0+	0.2+
2000 02 03	704	0.2+	0.2+	2000 02 12	691	0.2-	0.8-	2000 03 05	704	0.0	1.0-
2000 02 03	704	0.4-	0.3+	2000 02 12	691	0.1-	1.0-	2000 03 05	704	0.4-	0.3+
2000 02 03	704	0.2+	0.2-	2000 02 28	691	0.4-	0.2-	2000 03 05	704	0.8+	0.1-
2000 02 03	704	0.2-	0.4+	2000 02 28	691	0.5-	0.4-	2000 03 09	704	0.3-	0.3+
2000 02 03	704	0.1-	0.5+	2000 02 28	691	0.8-	0.4-	2000 03 09	704	0.6-	0.5+
2000 02 11	704	0.3-	0.7+	2000 02 29	704	0.3+	0.8+	2000 03 09	704	0.4+	0.5-
2000 02 11	704	0.3+	0.1+	2000 02 29	704	1.0+	1.3+	2000 03 09	704	0.2+	0.5-
2000 02 11	704	1.0+	0.4-	2000 02 29	704	0.7-	0.0				

2000 DO₉₆ = 1998 UE₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22491230	ω	134.59274	−0.14845623	−0.98809873		
<i>a</i>	2.6778973	Ω	323.88791	+0.88686199	−0.11500856		
<i>e</i>	0.0301379	<i>i</i>	3.91791	+0.43753465	−0.10214663		
<i>P</i>	4.38	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 23	566	0.0	0.1+	2000 02 02	691	0.6−	0.2+	2000 02 28	691	0.4−	0.0
1996 03 23	566	0.0	0.3+	2000 02 03	704	0.0	0.7+	2000 02 28	691	0.3−	0.1−
1996 03 23	566	0.3+	0.3+	2000 02 03	704	0.1+	0.1+	2000 02 28	691	0.1−	0.1−
1998 10 11	699	0.5+	0.9+	2000 02 03	704	0.1−	0.8+	2000 02 29	704	0.9+	0.2−
1998 10 11	699	(0.9+	2.3+)	2000 02 03	704	0.1+	0.2+	2000 02 29	704	0.5+	0.1+
1998 10 11	699	0.5−	1.1+	2000 02 03	704	0.0	0.9+	2000 02 29	704	0.1−	0.1+
1998 10 28	704	0.3−	0.4−	2000 02 04	691	0.0	0.4+	2000 02 29	704	0.1−	0.8+
1998 10 28	704	0.6+	0.3−	2000 02 04	691	0.2−	0.3+	2000 02 29	704	1.1−	0.3+
1998 10 28	704	0.8+	0.2−	2000 02 04	691	0.1−	0.4+	2000 03 05	704	0.0	0.3+
1998 10 28	704	0.3+	0.2+	2000 02 05	691	0.1+	0.3+	2000 03 05	704	0.4+	0.5+
1998 10 29	704	0.3−	0.5−	2000 02 05	691	0.3−	0.3+	2000 03 05	704	0.4+	1.0−
1998 10 29	704	0.6−	1.0−	2000 02 05	691	0.1+	0.1+	2000 03 05	704	0.3−	0.8+
1998 10 29	704	0.3+	0.1+	2000 02 07	691	0.1−	0.2+	2000 03 09	704	0.3+	0.0
1998 10 29	704	0.7+	0.7−	2000 02 07	691	0.0	0.3+	2000 03 09	704	0.3+	0.4−
1998 11 10	704	0.6−	1.7+	2000 02 07	691	0.1+	0.1+	2000 03 09	704	0.1−	0.3+
1998 11 10	704	(2.9+	2.1+)	2000 02 11	704	0.2+	0.4−	2000 03 09	704	0.3−	0.6−
1998 11 10	704	0.4−	0.6−	2000 02 11	704	0.4+	0.3+	2000 03 09	704	0.3+	0.3−
1998 11 10	704	0.8−	0.1+	2000 02 11	704	1.4+	0.9+	2000 03 09	608	0.1−	1.1−
2000 01 07	704	(2.2+	0.4+)	2000 02 11	704	1.3+	0.3+	2000 03 09	608	0.3−	1.3−
2000 01 07	704	0.7−	1.2−	2000 02 11	704	1.1+	0.0	2000 03 09	608	0.1+	0.8−
2000 01 07	704	0.3+	1.4−	2000 02 26	703	1.1−	0.0	2000 03 11	691	0.5−	0.5−
2000 01 07	704	0.1−	1.3−	2000 02 26	703	0.3+	1.3+	2000 03 11	691	0.4−	0.5−
2000 02 02	691	0.6−	0.1+	2000 02 26	703	0.4+	1.0−	2000 03 11	691	0.4−	0.7−
2000 02 02	691	0.5−	0.1+	2000 02 26	703	0.6−	0.8+				

2000 DU₉₇ = 1992 TQ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18021112	ω	26.66140	+0.95231097	−0.30167488		
<i>a</i>	3.1041902	Ω	350.54751	+0.20558573	+0.74524579		
<i>e</i>	0.1192153	<i>i</i>	16.18705	+0.22547355	+0.59464357		
<i>P</i>	5.47	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 10 01	675	0.8−	0.0	2000 01 10	699	0.4+	0.1+	2000 03 05	704	0.1+	0.4+
1992 10 04	675	0.2+	0.3−	2000 01 10	699	0.8−	0.5−	2000 03 05	704	0.3+	1.0+
1992 10 04	675	0.7+	0.2+	2000 02 03	704	0.6−	0.1−	2000 03 05	704	0.0	0.8+
1997 09 01	566	0.6−	0.9+	2000 02 03	704	0.3+	0.4+	2000 03 05	704	0.2−	0.9+
1997 09 01	566	0.8−	0.9+	2000 02 03	704	0.6+	1.1−	2000 03 05	704	0.1−	0.7+
1997 09 01	566	0.5−	1.0+	2000 02 03	704	0.4−	0.3−	2000 03 12	704	0.2+	0.5+
1998 11 14	704	1.0+	1.3+	2000 02 06	703	0.4+	0.5−	2000 03 12	704	0.5+	0.3−
1998 11 14	704	0.2−	0.8−	2000 02 06	703	0.4+	0.4+	2000 03 12	704	0.4−	0.3+
1998 11 14	704	1.3+	1.8−	2000 02 06	703	1.0+	0.0	2000 03 12	704	0.2+	0.5+
1998 11 14	704	(3.5−	0.4−)	2000 02 06	703	0.6−	0.0	2000 03 12	704	0.5−	0.5+
1998 11 16	704	(0.6−	2.5+)	2000 02 11	704	1.0+	0.1−	2000 04 03	699	1.0−	0.1−
1998 11 16	704	0.7+	0.5+	2000 02 11	704	0.3−	0.2+	2000 04 03	699	0.7−	0.7−
1998 11 16	704	0.1+	0.9+	2000 02 11	704	0.6+	0.5+	2000 04 03	699	0.2−	0.5−
1998 11 16	704	0.3−	0.7+	2000 02 11	704	0.1−	0.8−	2000 04 03	699	0.2+	0.0
1998 12 12	704	1.2−	0.1−	2000 02 11	704	0.5+	0.1+	2000 04 04	704	1.0+	0.5−
1998 12 12	704	0.8−	1.0−	2000 02 29	704	0.2−	0.0	2000 04 04	704	1.0+	0.0
1998 12 12	704	0.5−	0.9−	2000 02 29	704	0.1−	0.1+	2000 04 04	704	0.6−	0.8+
1998 12 12	704	0.0	1.5+	2000 02 29	704	0.2+	0.3+	2000 04 04	704	0.2−	0.4−
1998 12 12	704	(7.2−	0.6−)	2000 02 29	704	0.1−	0.1+				
2000 01 10	699	0.3+	0.0	2000 02 29	704	0.1−	0.2+				

2000 DM₉₉ = 1998 RC₂₉

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29303948	ω	24.42893	+0.89293833	−0.45011876		
<i>a</i>	2.2448395	Ω	2.36115	+0.37801441	+0.74081377		
<i>e</i>	0.0880263	<i>i</i>	10.29808	+0.24447137	+0.49858606		
<i>P</i>	3.36	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 17	704	1.1−	1.3+	1998 09 18	704	0.7−	0.5−	2000 03 05	704	0.1+	0.3+
1998 08 17	704	0.4−	0.2−	1998 09 18	704	1.4−	0.0	2000 03 05	704	1.6+	0.4−
1998 08 17	704	0.4+	1.9−	1998 09 18	704	1.5−	0.3+	2000 03 05	704	1.0−	0.2−
1998 08 17	704	0.8+	0.9+	1998 09 18	704	1.3+	0.7+	2000 03 08	704	0.2+	0.5+
1998 09 14	704	0.2−	0.7−	2000 02 29	704	0.1−	0.3+	2000 03 08	704	0.6−	0.7−
1998 09 14	704	0.5+	0.9+	2000 02 29	704	0.1+	0.2−	2000 03 08	704	0.3+	1.0−
1998 09 14	704	0.9+	0.0	2000 02 29	704	(2.3−	0.3+)	2000 03 08	704	0.3−	0.3−
1998 09 14	704	1.4+	1.0−	2000 02 29	704	0.4−	0.8+				
1998 09 18	704	0.1+	0.0	2000 02 29	704	0.0	0.6+				

2000 DT₉₉ = 1998 XO₅₉

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17455352	ω	235.88890	+0.97864534	+0.13293216		
<i>a</i>	3.1709080	Ω	116.02494	−0.07670443	+0.94381892		
<i>e</i>	0.0871608	<i>i</i>	10.04835	−0.19070849	+0.30254734		
<i>P</i>	5.65	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 23	704	0.6+	1.0+	2000 02 03	704	1.0+	0.2+	2000 03 05	704	0.2−	0.0
1998 11 23	704	1.6−	1.4+	2000 02 03	704	0.0	0.8+	2000 03 05	704	0.5−	0.5−
1998 11 23	704	(2.4−	0.3+)	2000 02 03	704	0.1+	0.3+	2000 03 05	704	0.3−	0.2+
1998 11 23	704	(2.0−	4.2+)	2000 02 03	704	1.0+	0.8−	2000 03 05	704	0.2+	0.4−
1998 12 15	704	0.6−	1.4−	2000 02 06	703	1.2−	0.8−	2000 03 11	699	0.1−	0.7−
1998 12 15	704	0.1−	0.2−	2000 02 06	703	0.0	0.3−	2000 03 11	699	0.5−	0.5−
1998 12 15	704	0.3−	0.5−	2000 02 06	703	0.0	1.6+	2000 03 11	699	0.0	0.0
1998 12 15	704	0.2−	0.1−	2000 02 06	703	0.7−	1.2+	2000 03 11	699	0.2+	0.0
1998 12 15	704	0.3−	0.6+	2000 02 11	704	0.7+	0.9+	2000 03 12	704	0.2−	1.3+
1998 12 16	704	1.8+	1.0−	2000 02 11	704	0.3+	0.1−	2000 03 12	704	0.3+	0.7−
1998 12 16	704	0.8−	0.2+	2000 02 11	704	0.1+	0.1+	2000 03 12	704	0.6+	0.7+
1998 12 16	704	0.1+	0.9−	2000 02 11	704	0.3+	0.6−	2000 03 12	704	0.3−	0.8+
1998 12 16	704	1.0+	0.7+	2000 02 11	704	0.1+	0.1−	2000 03 12	704	0.1−	0.4+
1998 12 22	704	0.3−	0.3+	2000 02 29	704	0.1+	0.4−	2000 04 03	699	0.2−	0.1+
1998 12 22	704	0.8−	0.3−	2000 02 29	704	0.4+	0.1−	2000 04 03	699	0.3+	0.8−
1998 12 22	704	0.8−	0.7−	2000 02 29	704	0.1−	0.4+	2000 04 03	699	0.5−	0.7−
1998 12 22	704	0.6+	0.5+	2000 02 29	704	0.4−	0.0	2000 04 03	699	0.4−	0.7−
1998 12 22	704	1.7+	0.1+	2000 02 29	704	0.0	0.4−				
2000 02 03	704	0.6+	0.4−	2000 03 05	704	0.4−	0.1+				

2000 DH₁₀₁ = 1991 PA₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17379410	ω	223.79620	+0.98241457	+0.09305142		
<i>a</i>	3.1801384	Ω	130.14411	−0.04784034	+0.96347275		
<i>e</i>	0.1532179	<i>i</i>	12.22542	−0.18047966	+0.25112086		
<i>P</i>	5.67	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	4

2000 APR. 18

M.P.C. 40127

2000 02 29 704 0.2+ 0.2+ 2000 03 12 704 0.3+ 0.5−
 2000 02 29 704 0.4+ 0.7+ 2000 03 12 704 0.1+ 0.5−

2000 DB₁₀₂ = 1999 BN₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	237.43406		(2000.0)	P	Q
<i>n</i>	0.15364423	ω	284.36028	+0.38349643	+0.92310777
<i>a</i>	3.4524327	Ω	8.35777	−0.75433382	+0.33078344
<i>e</i>	0.1116002	<i>i</i>	11.23873	−0.53283297	+0.19609784
<i>P</i>	6.41	<i>H</i>	12.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1999 01 16	704	1.0−	0.1+	2000 02 29	704	0.2−	0.7−	2000 03 12	704	0.6+	0.1+
1999 01 16	704	0.0	0.5+	2000 02 29	704	0.2−	0.2+	2000 03 12	704	0.3+	0.3+
1999 01 16	704	1.1+	0.0	2000 02 29	704	0.2−	0.2+	2000 03 28	704	0.2−	0.1−
1999 01 16	704	0.2−	0.6−	2000 03 02	703	0.8+	0.6+	2000 03 28	704	0.3+	0.6+
1999 01 19	704	0.2+	0.2−	2000 03 02	703	0.5−	0.3+	2000 03 28	704	0.9−	0.4−
1999 01 19	704	0.9−	0.1−	2000 03 02	703	0.4−	0.4−	2000 03 28	704	0.7−	0.4+
1999 01 19	704	0.8+	0.1+	2000 03 02	703	0.3−	0.1−	2000 04 03	699	0.4+	0.1−
2000 02 04	704	1.0+	0.2−	2000 03 03	608	0.6+	1.5−	2000 04 03	699	0.2−	0.4+
2000 02 04	704	0.4+	0.3+	2000 03 03	608	0.2+	0.2+	2000 04 03	704	0.8+	0.1+
2000 02 04	704	(2.4+ 1.0+)		2000 03 03	608	0.2−	1.4−	2000 04 03	699	0.2−	0.3+
2000 02 11	704	0.1−	0.1+	2000 03 05	704	0.0	0.1−	2000 04 03	704	0.1+	0.2+
2000 02 11	704	0.3−	0.8+	2000 03 05	704	0.2−	0.0	2000 04 03	699	0.1−	0.4+
2000 02 11	704	0.5−	0.2−	2000 03 05	704	0.3−	0.3+	2000 04 03	704	0.5+	0.6−
2000 02 11	704	0.4−	0.4+	2000 03 05	704	0.3−	0.1+	2000 04 03	704	0.1−	0.5+
2000 02 11	704	0.1−	0.9+	2000 03 12	704	0.5+	0.3−	2000 04 03	704	0.5−	0.4−
2000 02 29	704	0.3−	0.5−	2000 03 12	704	0.1+	0.2−				
2000 02 29	704	0.4+	0.4−	2000 03 12	704	0.5+	0.1−				

2000 DF₁₀₇ = 1991 GC₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	339.64916		(2000.0)	P	Q
<i>n</i>	0.21466611	ω	161.59984	−0.96769642	+0.23892230
<i>a</i>	2.7624455	Ω	32.56229	−0.24600146	−0.82489343
<i>e</i>	0.1310933	<i>i</i>	8.60159	−0.05519894	−0.51231530
<i>P</i>	4.59	<i>H</i>	13.9	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 04 11	033	0.7+	0.3−	2000 03 12	704	0.1+	0.4+	2000 04 05	704	0.3+	0.8+
1991 04 11	033	0.1+	0.2−	2000 03 12	704	0.3−	0.3+	2000 04 05	704	0.1+	0.3−
1991 04 12	033	0.8−	0.5+	2000 03 12	704	0.4−	0.0	2000 04 05	704	0.6+	0.2−
2000 02 29	704	0.3+	0.3−	2000 03 12	704	0.1+	0.3−	2000 04 05	704	0.1+	0.2−
2000 02 29	704	0.1−	0.5+	2000 04 03	704	0.5+	1.0+	2000 04 06	704	0.1−	0.1+
2000 02 29	704	0.0	0.3−	2000 04 03	704	0.3−	0.3+	2000 04 06	704	0.9−	0.8−
2000 03 05	704	0.1+	0.2+	2000 04 03	704	0.5+	0.3−	2000 04 06	704	0.0	0.0
2000 03 05	704	0.0	0.3−	2000 04 04	704	0.3+	0.1−	2000 04 08	704	1.6−	1.1+
2000 03 05	704	0.2+	0.1−	2000 04 04	704	0.3+	0.8−	2000 04 08	704	0.4−	0.2+
2000 03 05	704	0.2−	0.2−	2000 04 04	704	0.0	0.2−	2000 04 08	704	0.5+	0.7−
2000 03 05	704	0.4−	0.2−	2000 04 04	704	0.2+	0.1−				
2000 03 12	704	0.3+	0.6+	2000 04 04	704	0.4+	0.3−				

2000 DX₁₀₈ = 1981 UB₂₇ = 1998 XZ₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.38831		(2000.0)	P	Q
<i>n</i>	0.17803642	ω	274.14471	+0.99334566	+0.05998338
<i>a</i>	3.1294173	Ω	82.43671	−0.01476709	+0.91295500
<i>e</i>	0.1948504	<i>i</i>	5.69199	−0.11422051	+0.40362751
<i>P</i>	5.54	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1981 10 25	675	1.1−	1.4+	1998 12 17	704	0.5−	0.7−	2000 03 05	704	0.4−	0.9+
1981 10 26	675	0.1−	1.4+	1998 12 17	704	0.2+	0.3−	2000 03 05	704	0.1+	0.3+
1997 09 01	566	0.5−	1.3+	1998 12 17	704	0.5+	1.5−	2000 03 05	704	0.0	0.0
1997 09 01	566	0.5−	1.3+	1998 12 17	704	2.0−	0.5−	2000 03 05	704	0.4−	0.6+

1997 09 01	566	0.3−	1.3+	2000 02 06	703	0.3−	0.8+	2000 03 05	704	(2.2− 0.0)	
1998 12 14	704	0.0	0.7+	2000 02 06	703	0.1+	0.0	2000 03 05	704	0.7+	1.1+
1998 12 14	704	1.0−	0.6−	2000 02 06	703	0.9−	0.7+	2000 03 05	704	0.6+	0.7−
1998 12 14	704	0.2−	1.5−	2000 02 06	703	0.9+	0.4−	2000 03 05	704	0.0	1.1+
1998 12 14	704	0.4+	0.6−	2000 02 11	704	0.6+	0.9+	2000 03 05	704	1.2+	0.0
1998 12 14	704	0.1+	0.1+	2000 02 11	704	0.2−	0.2+	2000 03 09	704	0.2+	0.7−
1998 12 16	704	1.1+	0.8+	2000 02 11	704	0.5−	0.1−	2000 03 09	704	0.2+	0.4+
1998 12 16	704	1.1+	1.0+	2000 02 29	704	0.9+	0.3−	2000 03 09	704	0.0	0.4+
1998 12 16	704	0.8+	0.6+	2000 02 29	704	0.3−	0.6+	2000 03 09	704	1.3−	0.7−
1998 12 16	704	(0.2− 2.2+)		2000 02 29	704	0.3+	0.8+	2000 03 09	704	0.9−	0.4+
1998 12 17	704	0.3+	0.4−	2000 02 29	704	1.7+	0.9+				

2000 ES = 6181 P-L = 1998 XF₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	324.16764		(2000.0)	P	Q
<i>n</i>	0.28870045	ω	339.78340	−0.77498552	+0.63049900
<i>a</i>	2.2672761	Ω	239.37883	−0.57270604	−0.72957555
<i>e</i>	0.1681352	<i>i</i>	2.87918	−0.26721759	−0.26493494
<i>P</i>	3.41	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1960 09 24	675	0.0	0.3+	2000 03 01	703	0.4−	0.1+	2000 03 08	952	0.4−	0.3+
1960 09 25	675	0.5+	0.2−	2000 03 01	703	0.7−	0.3+	2000 03 08	952	0.6+	0.8+
1960 09 26	675	0.2−	0.9−	2000 03 04	952	0.8−	0.4−	2000 03 13	704	0.0	0.3−
1997 06 29	704	0.4−	0.2−	2000 03 04	952	0.6−	0.6−	2000 03 13	704	0.5−	0.2+
1997 06 29	704	0.7+	0.1−	2000 03 04	952	0.1−	0.4+	2000 03 13	704	0.5−	0.1−
1997 06 29	704	0.3+	0.2−	2000 03 04	952	0.2−	0.3−	2000 03 13	704	0.7−	0.3−
1997 06 29	704	0.3−	0.6−	2000 03 04	952	0.0	0.4−	2000 03 13	704	0.5−	0.3+
1997 06 29	704	0.3−	0.2−	2000 03 04	952	0.6+	0.7−	2000 04 04	704	0.3+	0.0
1998 11 16	691	0.2+	0.0	2000 03 04	952	0.2−	0.4+	2000 04 04	704	0.1+	0.1−
1998 11 16	691	0.0	0.2+	2000 03 04	952	0.1−	0.6−	2000 04 04	704	0.2−	0.2−
1998 11 16	691	0.1+	0.3+	2000 03 04	952	0.0	0.2−	2000 04 04	704	0.3+	0.4+
1998 12 11	691	0.0	0.5−	2000 03 04	952	0.9+	0.2+	2000 04 04	704	0.3+	0.1+
1998 12 11	691	0.5+	0.5−	2000 03 04	952	0.8+	0.1+	2000 04 08	704	0.1−	0.5−
1998 12 11	691	0.3+	0.4−	2000 03 04	952	0.4−	1.2+	2000 04 08	704	0.2+	0.2−
1998 12 15	691	0.3−	0.4−	2000 03 04	952	1.0+	0.5+	2000 04 08	704	0.3+	0.3−
1998 12 15	691	0.2−	0.5−	2000 03 04	952	0.6+	0.1+	2000 04 08	704	0.0	0.3−
1998 12 15	691	0.2+	0.2−	2000 03 08	952	0.5+	0.2−	2000 04 08	704	0.4−	0.0
2000 03 01	703	0.0	0.2+	2000 03 08	952	0.3−	0.9−				
2000 03 01	703	0.1−	0.4+	2000 03 08	952	0.0	0.9−				

2000 EX = 1993 TW₁₃ = 1998 XA₈₀

Id. M. E. Sansaturio, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	96.28507		(2000.0)	P	Q
<i>n</i>	0.21507612	ω	246.46719	+0.25491985	−0.96667041
<i>a</i>	2.7589336	Ω	188.86401	+0.93386077	+0.25249125
<i>e</i>	0.1442992	<i>i</i>	8.86745	+0.25083846	+0.04238505
<i>P</i>	4.58	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1993 10 09	809	0.9+	0.7+	2000 03 06	120	0.7−	0.0	2000 04 06	699	0.2−	0.4+
1993 10 09	809	0.1+	1.0+	2000 03 07	120	0.2+	0.4+	2000 04 06	704	0.2+	0.2+
1993 10 09	809	0.1+	0.9+	2000 03 09	704	0.0	0.5−	2000 04 06	699	0.3−	0.4+
1993 10 11	809	(1.9+ 2.7+)		2000 03 09	704	0.1+	0.4+	2000 04 06	691	0.5−	0.2−
1993 10 11	809	(0.9+ 2.8+)		2000 03 09	704	1.5−	0.1−	2000 04 06	704	0.4+	0.1+
1993 10 11	809	0.6+	1.7+	2000 03 09	704	0.4−	0.2+	2000 04 06	704	0.0	0.0
1993 10 20	809	0.7−	1.3−	2000 03 09	704	0.2+	1.4+	2000 04 06	699	0.2−	0.3+
1993 10 20	809	1.3−	1.4−	2000 03 10	704	0.2+	0.4+	2000 04 06	691	0.4−	0.2−
1993 10 20	809	(1.4− 2.0−)		2000 03 10	704	0.3+	0.2−	2000 04 06	704	0.1−	0.2+
1998 12 15	704	0.7+</									

1998 12 22	704	0.1+	1.1−	2000 04 02	699	0.4+	0.3+	2000 04 08	691	0.1−	0.3−
1998 12 22	704	(2.4−	0.3−)	2000 04 02	699	0.5−	0.3+	2000 04 08	691	0.0	0.4−
1998 12 22	704	1.1−	0.1+	2000 04 02	699	0.2+	0.5+	2000 04 08	691	0.1−	0.3−
2000 03 03	120	1.3−	0.4+	2000 04 03	699	0.2+	0.4−	2000 04 10	704	0.3−	0.2+
2000 03 03	120	0.2+	0.3−	2000 04 03	699	1.4+	0.6−	2000 04 10	704	0.1−	0.6−
2000 03 03	120	1.4−	0.6+	2000 04 03	699	0.2+	0.0	2000 04 10	704	0.6−	0.3−
2000 03 04	703	0.4−	0.1+	2000 04 03	699	0.3+	0.5+	2000 04 10	704	0.0	0.1−
2000 03 04	703	0.6−	0.1−	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.4+	0.7−
2000 03 04	703	0.6−	0.5−	2000 04 05	704	0.4+	0.1+	2000 04 12	691	0.0	0.3−
2000 03 04	703	0.5−	0.6+	2000 04 05	704	0.3+	0.1−	2000 04 12	691	0.0	0.4−
2000 03 05	120	0.1−	0.4−	2000 04 05	704	0.5+	0.0	2000 04 12	691	0.0	0.3−
2000 03 05	120	0.5+	0.1−	2000 04 05	704	0.4+	0.1−				
2000 03 06	120	1.0+	0.6+	2000 04 06	691	0.4−	0.2−				

2000 EG₃ = 1993 RC₁₉ = 1996 FH₁₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	257.92626		(2000.0)	P	Q
<i>n</i>	0.23462601	ω	102.62159	+0.15264383	+0.98814836
<i>a</i>	2.6034662	Ω	176.04922	−0.97324220	+0.15315092
<i>e</i>	0.1106306	<i>i</i>	13.60558	−0.17175413	+0.01037418
<i>P</i>	4.20	<i>H</i>	14.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 09 15	809	0.4+	0.8+	2000 03 03	704	0.2+	0.5+	2000 03 08	704	0.5−	0.3+
1993 09 15	809	0.9−	0.5+	2000 03 03	704	0.3+	0.7+	2000 03 11	704	0.0	0.8−
1993 09 15	809	0.9−	0.3+	2000 03 03	704	0.4+	0.6+	2000 03 11	704	0.1−	0.2−
1993 09 22	809	(0.9+ 2.9+)		2000 03 03	704	0.5+	0.7+	2000 03 11	704	0.3−	0.1−
1993 09 22	809	0.8+	1.0+	2000 03 04	704	0.1−	0.5−	2000 03 11	704	0.1+	0.4−
1993 09 22	809	0.0	1.0+	2000 03 04	704	0.0	0.5+	2000 03 11	704	0.3−	0.1−
1996 03 20	691	0.3+	0.7+	2000 03 04	704	1.6+	0.3+	2000 03 11	699	0.6−	0.1+
1996 03 20	691	0.2+	0.7+	2000 03 05	704	1.0−	0.3−	2000 03 11	699	0.1−	0.3+
1996 03 20	691	0.0	0.4+	2000 03 05	704	0.4−	0.1−	2000 03 11	699	0.8−	0.4+
1996 03 24	691	0.1−	0.1−	2000 03 05	704	0.2−	0.5+	2000 03 11	699	1.2−	0.2+
1996 03 24	691	0.0	0.2−	2000 03 05	704	0.1−	0.2−	2000 04 02	699	0.2−	0.1+
2000 02 08	704	0.8+	1.5−	2000 03 05	704	0.0	0.8−	2000 04 02	699	0.0	0.4−
2000 02 08	704	1.5+	0.8−	2000 03 08	704	0.1+	0.6−	2000 04 02	699	0.1−	1.5+
2000 02 08	704	1.5+	0.2+	2000 03 08	704	0.2+	0.3+	2000 04 02	699	1.2−	0.1+
2000 03 03	704	0.2+	0.9+	2000 03 08	704	0.5+	1.0+				

2000 EY₃ = 1998 XM₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	332.47169		(2000.0)	P	Q
<i>n</i>	0.27828676	ω	197.78720	−0.60619513	+0.79323865
<i>a</i>	2.3234911	Ω	34.96141	−0.71696537	−0.51378697
<i>e</i>	0.0967808	<i>i</i>	5.75348	−0.34422104	−0.32679566
<i>P</i>	3.54	<i>H</i>	14.6	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1994 10 07	691	0.0	0.2+	1998 12 17	704	0.3+	0.6−	2000 04 06	704	0.4+	0.5+
1994 10 07	691	0.0	0.0	1998 12 17	704	1.3+	0.3−	2000 04 06	704	0.6+	0.4+
1994 10 07	691	0.2−	0.0	2000 03 01	703	0.2+	0.2+	2000 04 06	704	0.2+	0.3+
1998 12 14	704	0.0	0.6+	2000 03 01	703	0.2−	0.0	2000 04 06	704	1.6−	0.3−
1998 12 14	704	0.3−	1.4+	2000 03 01	703	0.1+	0.1+	2000 04 06	704	0.6−	0.4−
1998 12 14	704	(0.8+ 2.2+)		2000 03 01	703	0.0	0.4+	2000 04 07	704	0.6+	0.4−
1998 12 14	704	0.3−	1.3−	2000 03 03	703	0.6−	0.1−	2000 04 07	704	0.0	0.9+
1998 12 14	704	0.5−	0.5−	2000 03 03	703	0.2+	0.1+	2000 04 07	704	0.2−	0.3−
1998 12 17	704	0.4−	0.8+	2000 03 03	703	0.2−	0.0	2000 04 07	704	0.1−	0.2−
1998 12 17	704	(1.4+ 2.1−)		2000 03 03	703	0.8+	0.4−	2000 04 07	704	0.7+	0.4−

2000 ET₄ = 1994 TA₆ = 1998 VA₂₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	174.39782		(2000.0)	P	Q
<i>n</i>	0.25956720	ω	332.93538	+0.90013705	+0.43560668
<i>a</i>	2.4339006	Ω	1.24085	−0.39684010	+0.82034317
<i>e</i>	0.2007940	<i>i</i>	0.87702	−0.17964193	+0.37051842
<i>P</i>	3.80	<i>H</i>	16.1	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1994 10 04	691	0.1+	0.1−	1998 11 10	704	1.1+	0.0	2000 03 02	691	0.4+	0.1+
1994 10 04	691	0.1+	0.4−	1998 11 10	704	0.1+	1.0+	2000 03 02	691	0.1−	0.7−
1994 10 11	691	0.2−	0.1+	1998 11 10	704	(2.6−	0.5−)	2000 03 02	691	0.1−	0.7−
1994 10 11	691	0.1+	0.3+	1998 11 11	704	0.8−	1.0+	2000 03 04	691	0.6+	0.5−
1994 10 11	691	0.1+	0.0	1998 11 11	704	0.6−	1.0+	2000 03 04	691	0.5+	0.3+
1998 09 19	910	0.3+	0.7−	1998 11 11	704	1.6−	0.0	2000 03 04	691	0.2+	0.2+
1998 09 19	910	0.5+	0.9−	1999 01 06	910	0.2+	0.1−	2000 03 12	691	1.5−	1.3+
1998 09 19	910	0.4+	0.7−	1999 01 06	910	0.0	0.5−	2000 03 12	691	0.2−	0.4−
1998 11 10	704	0.4+	0.2−	1999 01 06	910	0.3+	0.5−	2000 03 12	691	0.1−	0.1−

2000 EA₈ = 1982 BS₇ = 1998 XK₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	237.28072		(2000.0)	P	Q
<i>n</i>	0.28024867	ω	218.82600	+0.61922508	+0.76803947
<i>a</i>	2.3126345	Ω	90.05050	−0.67353515	+0.62645686
<i>e</i>	0.1722313	<i>i</i>	9.40006	−0.40362199	+0.13291791
<i>P</i>	3.52	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1982 01 26	381	0.4−	0.4−	1999 01 11	704	1.6−	0.6−	2000 03 12	704	0.7+	0.0
1982 01 26	381	0.2+	0.7−	1999 01 11	704	(1.2−	2.2−)	2000 03 12	704	0.6+	0.6−
1998 12 15	704	0.1−	0.6−	2000 01 07	704	0.2−	0.3−	2000 03 12	704	0.4+	0.5−
1998 12 15	704	0.8−	0.3−	2000 01 07	704	0.3−	1.0+	2000 03 12	704	0.6+	0.8−
1998 12 15	704	0.7−	0.1−	2000 01 07	704	0.2−	0.4−	2000 03 12	704	0.1+	1.1−
1998 12 15	704	0.1+	0.7+	2000 01 07	704	0.6+	0.8+	2000 03 28	704	1.5−	0.1−
1998 12 15	704	1.0−	0.7+	2000 02 04	704	0.3+	0.1−	2000 03 28	704	1.5−	0.8−
1998 12 16	704	0.5+	0.5−	2000 02 04	704	0.6+	0.1+	2000 03 28	704	0.2+	1.3−
1998 12 16	704	0.6+	0.5+	2000 02 04	704	0.6+	0.1+	2000 03 28	704	1.2−	0.9−
1998 12 16	704	0.6+	0.7+	2000 02 04	704	1.1+	0.9+	2000 04 04	704	0.3−	0.1+
1998 12 16	704	0.7+	1.4+	2000 02 04	704	0.1−	0.5+	2000 04 04	704	0.4+	0.0
1998 12 16	704	0.3+	1.3+	2000 03 05	757	(2.7−	0.3+)	2000 04 04	704	0.0	0.4+
1998 12 22	704	0.7+	0.4−	2000 03 05	757	(3.0−	1.3+)	2000 04 04	704	0.2+	0.3+
1998 12 22	704	0.5−	1.1−	2000 03 05	704	0.0	0.3+	2000 04 04	704	0.8+	0.1−
1998 12 22	704	0.2+	0.6−	2000 03 05	704	0.0	0.2+	2000 04 08	704	0.0	0.7+
1998 12 22	704	0.1+	0.7−	2000 03 05	704	0.1+	0.1+	2000 04 08	704	0.3+	0.2+
1998 12 22	704	0.3+	0.2+	2000 03 05	704	0.1−	0.5+	2000 04 08	704	0.3+	0.1−
1999 01 11	704	0.5+	0.6−	2000 03 05	704	0.1+	0.4+	2000 04 08	704	0.6+	0.1−
1999 01 11	704	(3.1−	2.1−)	2000 03 06	757	0.8−	0.9+	2000 04 08	704	0.1−	0.4+
1999 01 11	704	(2.2+	0.8+)	2000 03 06	757	1.5−	0.8+				

2000 EE₈ = 1998 SA₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.43753		(2000.0)	P	Q
<i>n</i>	0.22739494	ω	126.94201	+0.50828172	−0.86065011
<i>a</i>	2.6583705	Ω	292.48174	+0.77925723	+0.47471866
<i>e</i>	0.1038093	<i>i</i>	1.89243	+0.36661678	+0.18418353
<i>P</i>	4.33	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	2.0+	1.0−	2000 02 11	691	0.8−	0.8+	2000 02 27	703	0.6−	0.5−
1998 09 26	704	1.4+	0.7+	2000 02 11	691	0.5−	0.8+	2000 03 03	704	0.2+	0.1−
1998 09 26	704	0.7+	0.0	2000 02 11	691	0.8−	0.5+	2000 03 03	704	0.4+	1.2+
1998 09 26	704	0.1+	1.8−	2000 02 12	704	0.7+	1.2−	2000 03 03	704	0.1−	0.1−
1998 09 26	704	0.6−	0.2+	2000 02 12	704	1.2+	1.4−	2000 03 03	704	0.2−	0.

1998 09 27 704 1.4- 0.6+ 2000 02 27 703 1.0- 1.9+ 2000 03 05 704 0.9+ 1.0-
 1998 09 27 704 0.2- 0.4- 2000 02 27 703 0.2+ 0.3-

2000 EE₁₀ = 1992 SU₁₈ = 1997 TU₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	256.30899	(2000.0)		P	Q		
<i>n</i>	0.21070679	ω	322.78651	+0.30720619	+0.95119850		
<i>a</i>	2.7969435	Ω	325.07752	-0.86043884	+0.26457925		
<i>e</i>	0.1490202	<i>i</i>	2.91197	-0.40653334	+0.15880566		
<i>P</i>	4.68	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 09 22	809	0.9+	0.3+	1997 10 04	910	0.1-	0.1-	2000 03 05	704	0.4+	1.0-
1992 09 22	809	0.3+	0.3-	1997 10 04	910	0.1+	0.3-	2000 03 05	704	1.0+	0.3-
1992 09 22	809	1.0-	0.1+	1997 10 04	910	0.1+	0.1-	2000 03 11	704	0.1-	0.0
1992 09 23	809	0.2+	0.6+	1997 10 30	704	1.9-	0.0	2000 03 11	704	0.0	0.1+
1992 09 23	809	0.6-	0.4-	1997 10 30	704	0.7+	0.1+	2000 03 11	704	0.2+	0.3+
1992 09 23	809	0.0	0.1+	1997 10 30	704	(2.6-	0.0)	2000 03 11	704	1.5-	0.6-
1995 03 07	691	1.0-	0.5-	1997 10 30	704	(7.3-	1.8-)	2000 03 11	704	0.3+	0.1+
1995 03 07	691	0.5+	0.9-	2000 03 03	704	0.0	0.1-	2000 04 05	704	1.0-	0.0
1995 03 07	691	0.1-	0.0	2000 03 03	704	0.1-	0.2-	2000 04 05	704	0.3-	1.0+
1997 10 02	910	0.4+	0.5+	2000 03 03	704	0.1+	0.2-	2000 04 05	704	0.4-	0.8+
1997 10 02	910	0.2+	0.6+	2000 03 03	704	0.5+	0.1-	2000 04 05	704	0.1+	0.8+
1997 10 03	910	0.3+	0.3+	2000 03 03	704	0.8+	0.1-	2000 04 06	704	0.1+	0.5+
1997 10 03	910	0.3-	0.2+	2000 03 05	704	0.5+	0.4+	2000 04 06	704	0.0	1.0+
1997 10 03	910	0.3-	0.3+	2000 03 05	704	0.6+	0.0	2000 04 06	704	0.0	1.0+
1997 10 03	910	0.2-	0.2+	2000 03 05	704	0.4+	0.1-				

2000 ET₁₀ = 1998 RL₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	43.31319	(2000.0)		P	Q		
<i>n</i>	0.22752486	ω	303.42495	-0.19638449	-0.97637943		
<i>a</i>	2.6573585	Ω	157.37932	+0.95931617	-0.21033098		
<i>e</i>	0.2192555	<i>i</i>	13.54611	+0.20284381	+0.04943772		
<i>P</i>	4.33	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 09 14	704	(0.1+	2.7+)	2000 02 16	703	0.4-	0.1-	2000 03 12	704	0.1+	0.1-
1998 09 14	704	1.1+	0.5+	2000 02 16	703	0.5-	0.2-	2000 03 12	704	0.3+	0.2+
1998 09 14	704	1.7+	0.4-	2000 02 16	703	0.9-	0.2+	2000 03 12	704	0.1+	0.2+
1998 09 18	704	0.4-	0.7+	2000 02 16	703	0.1-	0.2+	2000 03 28	704	0.7-	0.4+
1998 09 18	704	0.2-	0.1-	2000 02 26	703	0.8-	1.0+	2000 03 28	704	0.1+	0.3-
1998 09 18	704	0.7-	0.6+	2000 02 26	703	0.1-	0.2-	2000 03 28	704	0.4-	0.3+
1998 09 18	704	0.8-	0.8-	2000 02 26	703	0.3+	0.5+	2000 03 28	704	0.3+	1.1+
1998 09 18	704	0.5-	1.3-	2000 02 26	703	0.3-	0.2-	2000 03 29	049	0.7-	0.1-
2000 01 05	704	1.0+	0.3+	2000 03 04	704	0.5-	0.0	2000 03 29	049	0.0	0.4-
2000 01 05	704	0.2-	0.1-	2000 03 04	704	0.8+	0.2-	2000 03 29	049	0.3+	0.3-
2000 01 05	704	0.5+	0.3-	2000 03 04	704	0.3+	0.0	2000 03 31	049	0.4+	0.1-
2000 01 05	704	0.2-	0.0	2000 03 04	704	0.6+	0.0	2000 03 31	049	0.3+	0.1+
2000 01 06	699	0.3-	0.1-	2000 03 04	704	0.7+	0.5-	2000 03 31	049	0.5+	0.1+
2000 01 06	699	0.7-	1.1-	2000 03 04	704	0.0	0.1-	2000 04 03	704	0.3-	0.2+
2000 01 06	699	0.9-	1.4+	2000 03 04	704	0.2+	0.4-	2000 04 03	704	0.6-	0.6+
2000 02 06	704	0.7+	0.0	2000 03 04	704	0.0	0.5-	2000 04 03	704	0.5+	0.4+
2000 02 06	704	0.2-	0.6+	2000 03 04	704	0.0	0.3-	2000 04 03	704	0.2+	1.0+
2000 02 06	704	0.0	0.7-	2000 03 04	704	0.3+	0.7-	2000 04 03	704	0.7+	1.6+
2000 02 11	704	0.9+	0.2+	2000 03 06	704	0.6-	0.3+	2000 04 08	049	0.1-	1.6-
2000 02 11	704	0.5+	0.2+	2000 03 06	704	0.5-	0.1+	2000 04 08	049	0.2-	1.6-
2000 02 11	704	0.9+	0.4-	2000 03 06	704	1.1-	0.4+	2000 04 08	049	0.1+	1.5-
2000 02 11	704	1.3+	0.6-	2000 03 12	704	0.3-	0.4-				
2000 02 11	704	0.7-	0.7+	2000 03 12	704	0.2-	0.1-				

2000 EP₁₁ = 1981 XD₂ = 1998 XG₈₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	113.80677	(2000.0)		P	Q
<i>n</i>	0.17445419	ω	276.87817	+0.89237808	-0.37731221
<i>a</i>	3.1721116	Ω	105.52904	+0.44302146	+0.83695719
<i>e</i>	0.2151436	<i>i</i>	14.88990	-0.08598459	+0.39640657
<i>P</i>	5.65	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1981 12 02	511	1.2+	0.4-	2000 02 03	704	1.1+	0.2+	2000 03 09	704	0.1-	0.2+
1981 12 03	511	0.4-	0.3-	2000 02 03	704	1.3+	0.1+	2000 03 09	704	0.7-	0.0
1981 12 03	511	0.5-	0.1+	2000 02 06	703	0.2-	0.3-	2000 03 09	704	0.5-	0.6+
1998 12 15	704	0.1+	0.3+	2000 02 06	703	0.7-	0.5+	2000 03 11	699	0.4-	1.0+
1998 12 15	704	0.4+	0.0	2000 02 06	703	0.7-	0.2-	2000 03 11	699	0.2+	0.8+
1998 12 15	704	0.4-	0.2-	2000 02 06	703	0.7-	0.6-	2000 03 11	699	0.2-	0.0
1998 12 15	704	0.6-	1.0+	2000 03 04	704	1.3+	0.0	2000 03 11	699	0.4+	0.7-
1998 12 15	704	0.3+	0.7+	2000 03 04	704	(2.0+	0.1-)	2000 03 12	704	1.2-	0.6+
1998 12 22	704	0.4-	0.3-	2000 03 04	704	0.8+	1.2-	2000 03 12	704	1.2-	0.2-
1998 12 22	704	0.1-	0.2-	2000 03 04	704	0.9+	0.3-	2000 03 12	704	1.0-	0.3+
1998 12 22	704	0.4+	0.6-	2000 03 06	704	0.1-	1.1+	2000 03 12	704	0.1-	0.3+
1998 12 22	704	0.2-	0.6-	2000 03 06	704	0.1+	0.1+	2000 04 02	704	1.0+	0.4-
1998 12 22	704	0.3+	0.5+	2000 03 06	704	0.1+	0.2+	2000 04 02	704	0.2+	1.4-
2000 02 03	704	0.3-	0.1-	2000 03 06	704	0.5+	0.7-	2000 04 02	704	0.8+	0.3+
2000 02 03	704	0.5+	0.3+	2000 03 09	704	0.4-	0.1-				
2000 02 03	704	0.1+	0.6-	2000 03 09	704	0.7-	0.1+				

2000 EA₁₂ = 1986 WQ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	143.24152	(2000.0)		P	Q
<i>n</i>	0.17301486	ω	350.84633	+0.99677428	-0.04126829
<i>a</i>	3.1896799	Ω	12.17297	+0.07679805	+0.73951063
<i>e</i>	0.1222136	<i>i</i>	19.05243	-0.02330451	+0.67187868
<i>P</i>	5.70	<i>H</i>	13.0	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1986 11 25	010	1.7-	0.2+	2000 03 06	704	0.1+	1.0+	2000 03 12	704	1.0-	0.9-
1986 11 25	010	0.3+	0.0	2000 03 11	699	0.6-	0.4+	2000 03 28	704	0.0	0.5+
1986 11 27	010	1.4+	0.2-	2000 03 11	699	0.3-	0.5+	2000 03 28	704	0.2+	0.8+
2000 03 04	704	1.5+	0.8-	2000 03 11	699	1.1-	0.6+	2000 03 28	704	0.8+	1.3+
2000 03 04	704	1.0+	0.8-	2000 03 11	699	0.7-	0.0	2000 04 02	704	1.1+	1.6-
2000 03 04	704	1.5+	1.2-	2000 03 12	704	0.1+	0.7+	2000 04 02	704	1.1-	0.1+
2000 03 06	704	0.7-	0.1-	2000 03 12	704	0.8-	0.2+	2000 04 02	704	0.1+	0.5-
2000 03 06	704	0.2+	0.3+	2000 03 12	704	0.3-	0.2-				
2000 03 06	704	0.0	0.1+	2000 03 12	704	0.0	0.3-				

2000 EH₁₂ = 1992 SC₂₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	100.72975	(2000.0)		P	Q
<i>n</i>	0.17579147	ω	15.98784	+0.93696548	-0.34880254
<i>a</i>	3.1560039	Ω	4.58799	+0.28529973	+0.72930512
<i>e</i>	0.2661563	<i>i</i>	15.06923	+0.20174182	+0.58860073
<i>P</i>	5.61	<i>H</i>	12.9	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1992 09 20	808	0.3-	0.0	1999 01 14	699	0.2+	0.0	2000 03 09	704	0.7-	0.1-
1992 09 20	808	(7.3-	1.6+)	1999 01 14	699	1.3-	0.6-	2000 03 12	703	0.4-	0.2+
1992 09 22	033	0.7-	1.3+	1999 01 14	699	0.6+	0.4+	2000 03 12	703	0.3-	0.7+
1992 09 22	033	0.8-	0.8+	2000 03 04	704	0.7+	0.1-	2000 03 12	704	0.1-	0.3-
1992 09 24	033	0.3+	0.4+	2000 03 04	704	0.3+	0.2+	2000 03 12	703	0.5-	0.6+
1992 09 27	033	0.7-	0.2+	2000 03 04	704	0.1+	0.2+	2000 03 12			

M.P.C. 40130

1998 11 16	704	0.8+	0.3+	2000 03 09	704	0.0	0.5+	2000 04 03	704	0.1+	0.5+
1998 11 16	704	1.7+	0.2-	2000 03 09	704	0.2-	0.1-	2000 04 03	704	0.0	0.2+
1998 11 16	704	1.2+	1.0-	2000 03 09	704	0.3+	0.1-	2000 04 03	704	0.3+	0.4+
1998 11 16	704	(1.2+	3.1-)	2000 03 09	704	0.1+	0.2-				

2000 EO₁₂ = 1998 YN₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18341770	ω	183.98785	-0.05901196	+0.98614357		
<i>a</i>	3.0679049	Ω	82.67771	-0.91150454	+0.01009882		
<i>e</i>	0.0900794	<i>i</i>	8.99325	-0.40703448	-0.16558643		
<i>P</i>	5.37	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.0	0.3-	2000 02 03	704	0.8-	0.4+	2000 03 06	704	0.0	0.3+
1998 12 14	704	0.0	1.9-	2000 02 03	704	0.3+	1.4+	2000 03 06	704	0.8-	0.6-
1998 12 14	704	1.9-	0.6-	2000 02 03	704	0.5+	0.5-	2000 03 06	704	1.0-	0.9+
1998 12 14	704	(5.1-	0.2+)	2000 02 03	704	0.3+	0.1-	2000 03 12	704	0.4+	0.0
1998 12 16	704	0.9+	0.2+	2000 02 03	704	0.1+	0.5-	2000 03 12	704	0.3-	0.2+
1998 12 16	704	0.3+	0.4-	2000 02 06	703	0.0	0.3-	2000 03 12	704	0.1-	0.1+
1998 12 16	704	1.3+	0.4+	2000 02 06	703	0.5-	0.0	2000 03 12	704	0.1-	0.6+
1998 12 16	704	1.7+	0.8+	2000 02 06	703	0.2+	0.5+	2000 03 12	704	0.7-	0.4+
1998 12 16	704	1.9-	1.8+	2000 02 06	703	0.6-	0.8-	2000 04 02	704	0.8+	0.1-
1998 12 17	704	0.1+	0.1+	2000 03 04	704	0.3+	0.1-	2000 04 02	704	0.5-	0.0
1998 12 17	704	0.0	1.4-	2000 03 04	704	0.5+	0.3-	2000 04 02	704	0.6-	0.8+
1998 12 17	704	0.1-	1.3+	2000 03 04	704	0.9+	0.3-	2000 04 02	704	0.2+	0.2-
1998 12 17	704	0.2-	0.4-	2000 03 04	704	0.1-	1.2-	2000 04 02	704	0.2+	0.1+
1998 12 17	704	0.6-	0.3+	2000 03 04	704	1.3+	0.5-				

2000 EY₁₂ = 1987 JE = 1987 KY₃ = 1996 FC₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21380960	ω	258.19370	+0.53264865	+0.83795289		
<i>a</i>	2.7698181	Ω	44.66378	-0.69569357	+0.51346043		
<i>e</i>	0.1426110	<i>i</i>	9.73228	-0.48197082	+0.18491441		
<i>P</i>	4.61	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1987 05 04	474	1.3+	2.2+	2000 03 04	704	0.7+	0.7+	2000 03 12	704	0.9-	0.5-
1987 05 04	474	0.6+	1.2+	2000 03 04	704	1.2+	0.6+	2000 03 12	704	0.9-	0.2+
1987 05 30	413	0.3-	1.1-	2000 03 04	704	(1.0-	2.5+)	2000 03 12	704	0.5-	0.9-
1987 05 30	413	0.7-	0.1-	2000 03 04	704	(0.8+	2.3+)	2000 03 12	704	0.6-	0.7-
1996 03 24	809	0.8-	1.1-	2000 03 05	704	0.8+	0.3-	2000 03 28	704	0.2-	0.6+
1996 03 24	809	1.5-	1.7-	2000 03 05	704	0.2+	0.3-	2000 03 28	704	0.9-	0.7+
1996 03 24	809	1.2-	0.9-	2000 03 05	704	0.1+	0.5-	2000 03 28	704	0.1+	0.1-
1996 03 26	809	(2.4+	0.1+)	2000 03 05	704	0.9+	0.4+	2000 04 02	704	0.1+	0.0
1996 03 26	809	1.4+	0.8+	2000 03 05	704	0.9+	0.4-	2000 04 02	704	0.4+	1.1+
1996 03 26	809	0.3+	0.3-	2000 03 12	704	0.1+	0.6+	2000 04 02	704	1.1-	0.4+

2000 EZ₁₂ = 1996 GZ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23427150	ω	179.55734	-0.60801397	+0.78626443		
<i>a</i>	2.6060920	Ω	52.99238	-0.72883596	-0.49782027		
<i>e</i>	0.1486755	<i>i</i>	7.91999	-0.31482878	-0.36600987		
<i>P</i>	4.21	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 13	691	0.5-	0.0	2000 03 04	704	0.1-	0.0	2000 03 12	704	0.4+	0.2+
1996 04 13	691	0.1+	0.4-	2000 03 04	704	0.1+	0.4+	2000 03 12	704	0.3-	0.1-
1996 04 13	691	0.1+	0.2-	2000 03 04	704	0.2+	0.1+	2000 03 12	704	1.0+	0.1+
1996 04 22	691	0.0	0.2+	2000 03 04	704	0.5+	0.2+	2000 03 12	704	0.1-	0.3+
1996 04 22	691	0.0	0.1-	2000 03 04	704	0.3+	0.4+	2000 03 28	704	0.4+	0.1-
1996 04 22	691	0.0	0.1-	2000 03 05	704	0.4-	0.1+	2000 03 28	704	0.2-	0.4+
2000 02 03	704	0.2+	0.3-	2000 03 05	704	0.2-	0.8-	2000 03 28	704	1.4-	0.1+

2000 APR. 18

2000 02 03	704	0.0	0.4-	2000 03 05	704	0.4-	0.4+	2000 04 03	699	0.5+	0.0
2000 02 03	704	0.4-	0.1-	2000 03 05	704	0.1+	0.3+	2000 04 03	699	0.2+	0.2+
2000 02 03	704	0.2-	0.6-	2000 03 05	704	0.9-	0.2-	2000 04 03	699	0.1-	0.3+
2000 02 03	704	0.3-	0.2-	2000 03 12	704	0.3+	0.4-	2000 04 03	699	0.7+	0.3+

2000 EK₁₃ = 1990 AV = 1998 QD₁₀₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.30635211	ω	87.58107	-0.95843597	-0.27668112		
<i>a</i>	2.1793256	Ω	76.35042	+0.22491472	-0.88286376		
<i>e</i>	0.0318472	<i>i</i>	4.10885	+0.17553877	-0.37947219		
<i>P</i>	3.22	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 01 03	511	1.0-	0.8+	2000 02 06	703	(2.1-	0.2+)	2000 03 05	704	0.5-	0.1+
1990 01 03	511	1.0+	0.6-	2000 02 06	703	0.7+	1.7+	2000 03 05	704	0.7-	0.1+
1998 08 25	809	1.1-	0.8-	2000 02 11	704	1.4+	0.4+	2000 03 05	704	0.6-	0.1+
1998 08 25	809	0.5-	1.0-	2000 02 11	704	0.7-	0.5-	2000 03 06	704	0.1-	0.1+
1998 08 25	809	1.9-	1.2-	2000 02 11	704	0.1-	0.2+	2000 03 06	704	0.1+	0.4+
1998 08 26	809	0.9+	1.1+	2000 02 11	704	0.3-	0.1-	2000 03 06	704	1.1+	1.4+
1998 08 26	809	1.0+	1.5+	2000 02 11	704	0.1+	0.0	2000 03 06	704	0.7-	1.0+
1998 08 26	809	1.2+	1.4+	2000 03 04	704	1.6+	0.9-	2000 03 08	704	0.4-	0.2+
2000 01 10	699	1.4+	0.2-	2000 03 04	704	0.3+	2.0-	2000 03 08	704	0.2-	0.1+
2000 01 10	699	0.6+	0.6-	2000 03 04	704	0.1+	0.8+	2000 03 08	704	0.0	0.1-
2000 01 10	699	0.0	0.8+	2000 03 04	704	0.4+	0.3+	2000 03 08	704	0.2+	0.2-
2000 02 03	704	0.2-	0.3-	2000 03 04	704	0.0	0.0	2000 03 08	704	0.1-	0.1-
2000 02 03	704	0.6-	0.5-	2000 03 04	704	0.3-	0.2+	2000 03 09	704	0.1-	0.3-
2000 02 03	704	0.2-	0.8-	2000 03 04	704	0.4-	0.1+	2000 03 09	704	0.2+	0.0
2000 02 03	704	0.8-	0.2-	2000 03 04	704	0.6+	1.0+	2000 03 09	704	0.7+	0.0
2000 02 03	704	0.2-	0.7-	2000 03 04	704	0.4-	0.4+	2000 03 09	704	0.4+	0.1+
2000 02 06	703	0.2+	0.7-	2000 03 05	704	0.7-	0.1-	2000 03 09	704	0.4+	0.0
2000 02 06	703	1.5-	1.0-	2000 03 05	704	0.2-	0.4+				

2000 EH₁₄ = 1994 RO₁₇ = 1998 SG₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26119332	ω	275.30057	-0.09980585	-0.99500676		
<i>a</i>	2.4237883	Ω	180.42874	+0.94108642	-0.09420618		
<i>e</i>	0.1530525	<i>i</i>	4.48721	+0.32310238	-0.03296581		
<i>P</i>	3.77	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 09 03	809	(2.6-	4.1-)	2000 03 03	104	0.2-	0.4-	2000 03 22	104	0.4+	0.1-
1994 09 03	809	1.8-	1.4-	2000 03 03	104	(2.3+	0.4-)	2000 03 22	104	0.2+	0.3-
1994 09 03	809	(0.5-	2.7-)	2000 03 05	104	(0.3+	2.1-)	2000 03 26	699	0.3+	0.2+
1994 09 04	809	1.3+	0.9+	2000 03 05	104	1.0+	0.2-	2000 03 26	699	0.5+	0.4+
1994 09 04	809	0.8+	0.2+	2000 03 08	691	(2.4+	0.1-)	2000 03 26	699	0.9+	0.3+
1994 09 04	809	0.3-	0.3+	2000 03 08	704	0.9-	0.9+	2000 03 26	699	0.3+	0.3-
1998 09 25	691	0.0	0.2+	2000 03 08	704	1.0-	0.0	2000 04 05	704	0.2-	0.2+
1998 09 25	691	0.6-	0.2+	2000 03 08	691	0.4+	0.0	2000 04 05	704	0.0	0.1-
1998 09 25	691	0.1-	0.1+	2000 03 08	704	0.9-	1.1+	2000 04 05	704	0.1+	0.0
1998 09 26	704	1.1-	0.1+	2000 03 08	691	0.2+	0.2-	2000 04 05	704	0.1+	0.1-
1998 09 26	704	0.8+	0.3-	2000 03 08	704	0.8-	0.4+	2000 04 05	704	0.3+	0.1+
1998 09 26	704	0.8+	1.4-	2000 03 10	704	0.7+	0.2+	2000 04 06	704	0.2+	0.0
1998 09 26	704	0.2+	0.8-	2000 03 10	704	0.4+	0.1+	2000 04 06	704	0.2+	0.2+
1998 09 26	704	0.5-	0.4+	2000 03 10	704	0.2-	0.1-	2000 04 06	704	0.6-	0.2+
1998 09 27	704	0.3-	1.3+	2000 03 10	704	0.1-	0.1+	2000 04 07	699	0.2+	0.8+
1998 09 27	704	0.4+	0.7+	2000 03 10	704	0.1+	0.4-	2000 04 07	699	0.1-	0.2+
1998 09 27	704	0.7+	0.3-	2000 03 11	691	0.0	0.6-	2000 04 07	699	0.4-	0.5-
1998 09 27	704	0.9+	0.3-	2000 03 11	691	0.1-	0.7-	2000 04 07	699	0.1+	0.5+
1998 09 27	704	1.0+	0.8+	2000 03 11	704	0.4+	0.0	2000 04 07	104	1.7-	0.6-
1998 09 30	691	0.8-	0.1+	2000 03 11	691	0.3-	0.5-	2000 04 07	104	2.0-	0.9-
1998 09 30	691	0.9-	0.1-	2000 03 11	704	0.4+	0.1+	2000 04 07	104	1.8-	0.8-
1998 09 30	691	0.6-	0.2+	2000 03 11	704	0.6+	0.2+	2000 04 10	704	0.7+	0.4+
1998 10 19	699	0.7-	0.8+	2000 03 11	704	0.3+	0.1-	2000 04 10	704	0.1-	0.4+

2000 APR. 18

M.P.C. 40131

1998 10 19 699 0.4− 0.4+ 2000 03 11 704 0.1+ 0.2+ 2000 04 10 704 1.0+ 0.4−
 1998 10 19 699 1.0+ 1.6− 2000 03 22 104 (2.0− 0.8−) 2000 04 10 704 1.2+ 0.8+

2000 EN₁₄ = 1987 SN₂₈ = 1997 JA₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	157.00373	(2000.0)	P	Q	
<i>n</i>	0.27355703	ω	200.09022	+0.98893736	−0.14780693
<i>a</i>	2.3501963	Ω	168.38853	+0.14316030	+0.92901102
<i>e</i>	0.1632229	<i>i</i>	3.55796	+0.03883341	+0.33925159
<i>P</i>	3.60	<i>H</i>	14.6	<i>G</i>	0.15 <i>U</i> 2

Residuals in seconds of arc

1987 09 24	095	0.2−	0.6+	1998 08 31	704	1.0+	0.1+	2000 03 06	120	0.8+	0.1+
1993 04 14	691	0.3−	0.6−	1998 08 31	704	1.8+	0.6−	2000 03 06	120	0.3+	0.6−
1993 04 14	691	0.0	0.8−	1998 08 31	704	1.7+	1.3−	2000 03 10	120	0.4+	1.9−
1993 04 14	691	0.2−	0.8−	1998 11 11	704	0.6−	1.8+	2000 03 10	120	1.7−	1.0−
1997 05 03	809	1.1+	1.4−	1998 11 11	704	0.7−	2.0+	2000 03 11	699	0.2−	0.8+
1997 05 03	809	0.7+	1.4−	1998 11 11	704	0.8−	0.8+	2000 03 11	699	0.4−	0.2+
1997 05 03	809	(0.5+ 4.1−)		1998 12 11	699	0.7−	0.7+	2000 03 11	699	0.4+	0.1+
1997 05 04	809	0.2−	0.2+	1998 12 11	699	0.8−	0.2+	2000 03 11	704	0.2+	0.1+
1997 05 04	809	0.2−	1.2+	1998 12 11	699	0.6−	0.7+	2000 03 11	699	0.3−	0.4+
1997 05 04	809	0.1−	0.0	1999 01 11	704	0.5−	0.1−	2000 03 11	704	0.1−	0.0
1997 05 05	691	1.8−	0.5−	1999 01 11	704	(2.1− 1.1+)		2000 03 11	704	0.4+	0.9+
1997 05 05	691	1.8−	0.5−	1999 01 11	704	0.5+	0.1+	2000 03 11	704	0.9+	1.5+
1997 05 05	691	1.8−	0.7−	1999 01 11	704	0.9+	1.0−	2000 03 11	704	0.7+	1.2+
1997 06 07	809	0.1−	0.8+	2000 02 27	120	(3.2+ 4.2−)		2000 04 05	704	0.1−	0.3+
1997 06 07	809	0.7+	1.2+	2000 02 27	120	1.7−	0.8−	2000 04 05	704	0.4+	0.9+
1997 06 07	809	1.3+	1.9+	2000 02 28	120	0.2+	0.8−	2000 04 05	704	0.8+	0.9+
1997 06 08	809	0.7+	1.4+	2000 03 05	120	1.9+	0.0	2000 04 05	704	0.3+	0.3+
1997 06 08	809	0.9+	1.9+	2000 03 05	120	(3.3+ 0.2+)		2000 04 06	704	0.5+	0.7+
1997 06 08	809	1.5+	1.7+	2000 03 05	120	1.8−	0.1−	2000 04 06	704	0.6+	0.3+
1998 08 31	704	1.4−	1.6+	2000 03 05	120	0.1−	1.4−	2000 04 06	704	1.2+	0.7+
1998 08 31	704	0.2−	1.3−	2000 03 06	120	1.4−	0.4+				

2000 ED₁₅ = 1981 BR = 1998 XV₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	98.84242	(2000.0)	P	Q	
<i>n</i>	0.21575373	ω	138.83826	+0.03508035	−0.99873016
<i>a</i>	2.7531540	Ω	309.11956	+0.90428331	+0.04712529
<i>e</i>	0.0534523	<i>i</i>	2.67130	+0.42548921	−0.01781200
<i>P</i>	4.57	<i>H</i>	13.6	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1981 01 28	675	1.7+	0.2+	2000 03 06	428	0.8+	0.2+	2000 04 07	704	0.4+	0.0
1981 01 29	675	0.2−	0.6+	2000 03 14	428	1.4+	1.0+	2000 04 07	704	0.1−	0.1+
1981 02 01	675	1.2−	0.2+	2000 03 14	428	1.2+	1.2+	2000 04 08	704	0.7−	0.0
1998 12 14	704	0.1+	0.2−	2000 03 15	428	0.4−	0.2−	2000 04 08	704	0.4−	0.0
1998 12 14	704	0.3−	0.1+	2000 03 26	428	0.1−	1.3−	2000 04 08	704	0.2−	0.3−
1998 12 14	704	0.6−	0.0	2000 03 26	428	1.3−	1.0−	2000 04 08	704	0.3−	0.2−
1998 12 14	704	0.8−	0.4+	2000 03 26	428	1.4−	0.3+	2000 04 08	704	0.3−	0.3−
1998 12 17	704	0.3−	0.1+	2000 03 30	704	0.3+	1.0+	2000 04 10	704	0.0	0.2+
1998 12 17	704	0.9+	1.0−	2000 03 30	704	0.3+	0.1−	2000 04 10	704	0.3+	0.4−
1998 12 17	704	0.8−	0.3+	2000 03 30	704	0.4+	0.2−	2000 04 10	704	0.1−	0.2−
1998 12 17	704	1.1+	0.6−	2000 03 30	704	0.3+	0.5+	2000 04 10	704	0.7+	0.1−
1998 12 17	704	0.7+	0.2−	2000 03 30	704	0.2+	0.0	2000 04 10	704	0.2+	0.4−
2000 03 05	428	0.1−	0.3−	2000 04 07	704	0.4+	0.1−	2000 04 13	608	0.9−	0.2+
2000 03 05	428	0.4+	0.0	2000 04 07	704	0.4+	0.0	2000 04 13	608	0.6−	0.3+
2000 03 06	428	0.2−	0.3−	2000 04 07	704	0.1−	0.3−	2000 04 13	608	0.8−	0.3+

**2000 EM₁₅ = 1984 UO₃ = 1991 TX₅ = 1993 FJ₈ = 1998 RR₈₀
= 1998 SO₇₉**

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	114.86316	ω	358.51920	+0.75779810	−0.65039672
<i>n</i>	0.27868231	Ω	42.20572	+0.59944313	+0.66235406
<i>a</i>	2.3212920	<i>i</i>	4.45757	+0.25770131	+0.37184836
<i>e</i>	0.1778410	<i>H</i>	14.5	<i>G</i>	0.15 <i>U</i> 2
<i>P</i>	3.54				

Residuals in seconds of arc

1984 10 28	046	(3.7− 0.5−)	1998 09 26	704	1.3+	0.4−	2000 03 11	699	0.1+	1.1+	
1984 10 28	046	(1.5− 2.8+)	1998 09 26	704	0.8+	0.1+	2000 03 11	699	0.5+	0.6+	
1984 10 29	046	1.5+	0.7+	1998 09 26	704	0.2−	0.4+	2000 03 11	699	0.2+	0.6+
1984 10 29	046	(0.1+ 3.8+)	1998 09 27	704	0.0	0.8+	2000 03 12	704	1.1+	0.1+	
1984 10 30	046	0.4−	0.5−	1998 09 27	704	0.2−	1.1+	2000 03 12	704	0.0	0.6−
1984 10 30	046	(3.9− 2.8−)	1998 09 27	704	0.5+	1.1+	2000 03 12	704	0.7+	0.3+	
1991 10 03	046	(5.0+ 2.9−)	1998 09 27	704	0.0	0.9+	2000 03 12	704	0.1−	0.0	
1991 10 03	046	(6.5+ 5.2−)	1998 09 27	704	0.4−	0.9+	2000 03 12	704	0.1+	0.2+	
1991 10 04	046	(6.3+ 1.7−)	2000 02 11	704	0.4+	0.5+	2000 03 28	704	0.7−	0.7+	
1991 10 04	046	(7.2+ 1.9−)	2000 02 11	704	0.6+	0.0	2000 03 28	704	0.8−	0.8+	
1991 10 05	691	0.6−	0.3+	2000 02 11	704	0.3−	0.6−	2000 03 28	704	1.0+	1.3+
1991 10 05	691	0.8−	0.5+	2000 02 11	704	0.3+	0.1+	2000 04 02	699	0.1+	1.1+
1991 10 05	691	0.8−	0.4+	2000 02 11	704	0.4−	0.8−	2000 04 02	699	0.9+	0.1+
1993 03 17	809	0.8−	0.1+	2000 03 02	703	0.3+	1.3+	2000 04 02	699	0.2−	0.4+
1993 03 18	809	1.1−	0.9+	2000 03 02	703	0.8−	0.7−	2000 04 02	699	0.5−	0.7+
1993 03 23	809	0.3+	0.0	2000 03 02	703	1.3+	0.5+	2000 04 05	704	0.2−	0.5+
1998 09 14	704	1.0−	0.9+	2000 03 02	703	0.1−	1.3−	2000 04 05	704	0.7+	0.7+
1998 09 14	704	(2.8− 1.1+)	2000 03 06	595	0.9+	0.3+	2000 04 05	704	(2.4+ 0.8+)		
1998 09 14	704	2.0−	0.3+	2000 03 06	595	0.2+	0.1+	2000 04 08	704	0.3+	0.2+
1998 09 14	704	1.6−	0.8+	2000 03 06	595	0.5+	0.1−	2000 04 08	704	0.5+	0.3−
1998 09 14	704	0.1+	0.5+	2000 03 07	595	0.3−	0.5+	2000 04 08	704	0.8+	0.8+
1998 09 14	704	0.4−	0.1−	2000 03 07	595	0.1−	0.1+	2000 04 08	704	0.6+	0.7+
1998 09 26	704	0.5−	0.6+	2000 03 07	595	(0.7− 2.2+)		2000 04 08	704	0.1−	0.8+
1998 09 26	704	0.2+	0.6+	2000 03 11	699	0.5+	0.8+				

2000 EP₁₅ = 1998 XS₈₂

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	94.71202	ω	253.61432	+0.62407666	−0.78132749
<i>n</i>	0.17580329	Ω	157.76605	+0.72420202	+0.57481016
<i>a</i>	3.1558624	<i>i</i>	1.12994	+0.29335944	+0.24314735
<i>e</i>	0.1734992	<i>H</i>	14.2	<i>G</i>	0.15 <i>U</i> 5
<i>P</i>	5.61				

Residuals in seconds of arc

1994 01 12	691	0.1+	0.8+	2000 03 03	704	0.0	0.5+	2000 03 11	704	0.5+	0.6+
1994 01 12	691	0.1+	0.3+	2000 03 03	704	0.5−	0.8−	2000 03 11	704	1.4−	0.3−
1998 12 15	704	0.4−	1.0+	2000 03 03	704	0.4−	0.7+	2000 03 11	704	0.0	1.1+
1998 12 15	704	0.0	0.2+	2000 03 06	360	0.4+	0.5−	2000 03 13	360	0.1−	0.2−
1998 12 15	704	1.7+	0.5+	2000 03 06	360	0.4+	0.3−	2000 03 13	360	0.2−	0.2+
1998 12 15	704	0.8+	0.0	2000 03 06	360	0.4+	0.1+	2000 03 13	360	0.5−	0.4−
1998 12 22	704	0.6+	0.1+	2000 03 07	360	0.4−	0.1−	2000 03 25	360	0.4−	0.2−
1998 12 22	704	1.8−	1.9−	2000 03 07	360	0.2+	0.5−	2000 03 25	360	0.4−	0.2−
1998 12 22	704	0.8−	0.4−	2000 03 07	360	0.4−	0.3+	2000 03 25	360	0.0	0.7−
2000 02 25	691	0.6−	0.4−	2000 03 09	360	0.4+	0.2+	2000 03 30	360	0.4+	0.2−
2000 02 25	691	0.1−	0.1−	2000 03 09	360	0.5+	0.4−	2000 03 30	360	0.3−	0.0
2000 02 25	691	0.4−	0.5−	2000 03 09	360	0.8+	0.1−	2000 03 30	360	0.2+	0.1−
2000 03 03	704	0.6+	0.2+	2000 03 11	704	0.7+	0.4+				
2000 03 03	704	1.0+	0.8+	2000 03 11	704	0.4−	0.0				

2000 EC₁₆ = 1998 RD₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	123.44779		(2000.0)		P		Q				
<i>n</i>	0.27708044	ω	187.56171		+0.92891357		−0.37020815				
<i>a</i>	2.3302301	Ω	194.17492		+0.34144701		+0.86479549				
<i>e</i>	0.2174478	<i>i</i>	1.89391		+0.14329520		+0.33922661				
<i>P</i>	3.56	<i>H</i>	16.2		<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc											
1998 08 17	704	0.7+	0.4−	1998 09 14	699	0.7+	0.9+	2000 03 03	704	0.4+	0.2+
1998 08 17	704	1.3−	0.6+	1998 09 14	699	0.1+	0.0	2000 03 03	704	0.5+	0.1+
1998 08 17	704	(3.8+	1.6+)	1998 09 18	704	0.5+	1.0−	2000 03 03	704	1.2−	0.6+
1998 08 17	704	0.1−	0.4+	1998 09 18	704	0.0	0.2−	2000 03 03	691	1.5−	0.4+
1998 08 17	704	0.4+	0.4−	1998 09 18	699	0.3−	0.3+	2000 03 03	691	0.0	0.1−
1998 08 26	699	0.2−	0.9+	1998 09 18	704	0.1−	0.4−	2000 03 03	691	0.1−	0.2+
1998 08 26	699	0.2+	0.6−	1998 09 18	699	0.9−	0.2+	2000 03 04	691	0.1+	0.2−
1998 08 26	699	0.4+	0.6−	1998 09 18	704	1.0−	0.2−	2000 03 04	691	1.7+	0.7+
1998 09 14	704	0.2+	0.5+	1998 09 18	704	1.8−	0.1+	2000 03 04	691	0.3+	0.3+
1998 09 14	704	1.3+	0.5+	1998 09 18	699	0.9+	0.5+	2000 03 11	704	0.5+	0.5−
1998 09 14	704	0.5−	0.3+	2000 02 25	691	0.3−	0.1−	2000 03 11	704	0.6−	0.6+
1998 09 14	704	0.9+	0.1+	2000 02 25	691	0.4+	0.6−	2000 03 11	704	0.3+	0.6+
1998 09 14	704	0.7−	0.4−	2000 02 25	691	0.2+	0.1+				
1998 09 14	699	0.0	0.1−	2000 03 03	704	0.2−	0.8−				

2000 EY₁₆ = 1998 SP₁₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24665498	ω	125.52956	−0.53590572	−0.84420627		
<i>a</i>	2.5181183	Ω	356.81515	+0.69634193	−0.43460367		
<i>e</i>	0.1267077	<i>i</i>	11.41167	+0.47740233	−0.31374419		
<i>P</i>	4.00	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 18	566	0.7−	0.4−	2000 02 11	704	1.7+	1.5+	2000 03 11	699	0.1+	0.1+
1996 03 18	566	0.3−	0.7−	2000 02 26	703	0.4+	0.2−	2000 03 15	704	0.2+	0.5−
1996 03 18	566	0.1−	0.4−	2000 02 26	703	(0.8−	4.9−)	2000 03 15	704	1.5+	0.6+
1998 09 26	704	0.7+	0.1−	2000 02 26	703	1.4−	0.3+	2000 03 15	704	0.3+	1.1+
1998 09 26	704	0.5+	0.1+	2000 02 26	703	0.3−	0.1−	2000 03 15	704	(2.5+	1.4+)
1998 09 26	704	0.3+	0.2−	2000 03 03	704	0.3−	0.0	2000 04 04	704	0.0	0.8−
1998 09 26	704	0.2+	0.7+	2000 03 03	704	0.2−	0.3+	2000 04 04	704	0.6+	0.3+
1998 09 26	704	1.2−	0.6+	2000 03 03	704	0.1−	0.1+	2000 04 04	704	0.8+	0.4+
1998 09 27	704	0.4+	0.3+	2000 03 03	704	0.3+	0.1+	2000 04 04	704	0.2+	1.0+
1998 09 27	704	(0.5−	2.2−)	2000 03 03	704	0.2+	0.2+	2000 04 04	704	1.0+	1.2+
1998 09 27	704	0.1+	0.1−	2000 03 08	704	0.1+	0.4−	2000 04 05	704	0.1+	0.6−
1998 09 27	704	1.7−	0.3−	2000 03 08	704	0.3−	1.5−	2000 04 05	704	0.0	0.2+
2000 02 02	703	0.7+	0.2−	2000 03 08	704	0.1−	1.6−	2000 04 05	704	0.3−	0.1−
2000 02 02	703	0.8−	0.3+	2000 03 08	704	0.1+	0.6−	2000 04 05	704	0.3−	0.1+
2000 02 02	703	1.8−	0.5−	2000 03 08	704	0.2+	1.1−	2000 04 05	704	0.4−	0.0
2000 02 02	703	1.7−	0.1−	2000 03 11	704	0.4−	0.1−	2000 04 06	704	0.2+	0.2−
2000 02 06	704	0.6+	0.4−	2000 03 11	699	0.3−	0.0	2000 04 06	704	0.2+	0.2−
2000 02 06	704	0.1−	0.0	2000 03 11	704	0.2−	0.2+	2000 04 06	704	0.5−	0.2−
2000 02 06	704	0.1+	1.3+	2000 03 11	704	0.1+	0.2+	2000 04 06	704	0.1−	0.1−
2000 02 06	704	0.3−	0.8+	2000 03 11	699	0.4−	0.1+	2000 04 06	704	1.0+	0.4−
2000 02 11	704	0.3−	0.6−	2000 03 11	704	0.5+	0.5+	2000 04 06	691	0.0	0.7−
2000 02 11	704	0.4+	0.9+	2000 03 11	699	0.2−	0.4+	2000 04 06	704	0.2+	0.1−
2000 02 11	704	0.6+	1.3−	2000 03 11	704	0.1−	0.7+	2000 04 06	691	0.2−	0.8−

2000 EZ₁₆ = 1997 SF₁₄ = 1999 BQ₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19342710	ω	295.33708	+0.39722263	+0.91770374		
<i>a</i>	2.9611325	Ω	358.03933	−0.76875285	+0.32926547		
<i>e</i>	0.0867214	<i>i</i>	9.81560	−0.50123171	+0.22227030		
<i>P</i>	5.10	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 09 28	691	0.2−	0.3+	2000 02 11	704	0.2+	0.4+	2000 03 11	704	0.0	0.1−
1997 09 28	691	0.1−	0.2+	2000 02 11	704	0.5+	1.5+	2000 04 05	704	0.1−	0.7+
1997 09 28	691	0.0	0.2+	2000 02 27	706	1.2−	1.4+	2000 04 05	704	0.2+	0.6+
1997 09 30	691	0.2+	0.1+	2000 02 27	706	(2.2+	1.9+)	2000 04 05	704	0.4−	0.5+
1997 09 30	691	0.1−	0.2+	2000 02 28	706	(3.8+	1.7+)	2000 04 05	704	0.3−	0.8+
1997 09 30	691	0.3−	0.5+	2000 02 28	706	0.0	0.6+	2000 04 05	704	0.2−	1.1+
1997 10 05	691	0.3−	0.3+	2000 03 03	704	0.2+	0.2+	2000 04 05	704	0.6+	0.9+
1997 10 05	691	0.3−	0.1+	2000 03 03	704	0.4−	0.1+	2000 04 05	704	0.4+	0.7+
1997 10 05	691	0.2−	0.2+	2000 03 03	704	0.2+	0.2+	2000 04 05	704	0.1−	0.3−
1998 12 17	704	0.3+	0.6+	2000 03 03	704	0.0	0.4+	2000 04 05	704	0.3+	0.8+
1998 12 17	704	0.8−	0.4−	2000 03 03	704	0.0	0.3+	2000 04 06	704	0.9−	1.0+
1998 12 17	704	0.1+	0.2−	2000 03 05	608	0.5+	1.9−	2000 04 06	704	0.4−	0.0
1998 12 17	704	(2.7−	3.0−)	2000 03 05	608	0.3+	1.6−	2000 04 06	704	0.5+	0.8−
1998 12 17	704	0.7−	1.6−	2000 03 05	608	0.3+	1.9−	2000 04 06	704	0.1+	0.8−
1999 01 16	704	0.4−	1.2−	2000 03 08	704	0.0	0.7+	2000 04 06	704	0.4+	0.8−
1999 01 16	704	0.1−	1.0+	2000 03 08	704	0.6−	0.1+	2000 04 10	704	0.8+	0.4+
1999 01 16	704	0.3+	0.1+	2000 03 08	704	1.1−	0.5−	2000 04 10	704	0.2−	0.5−
1999 01 19	704	(0.8−	2.5+)	2000 03 08	704	0.2−	1.3−	2000 04 10	704	0.0	0.0
1999 01 19	704	(0.4+	2.6+)	2000 03 08	704	0.1−	0.4+	2000 04 10	704	0.1−	0.1+
1999 01 19	704	(1.6+	2.6+)	2000 03 11	704	0.2+	0.2−	2000 04 12	608	0.3+	0.6−
1999 01 19	704	0.9+	0.7+	2000 03 11	704	0.1+	0.3−	2000 04 12	608	0.3+	0.6−
2000 02 11	704	0.8+	1.0+	2000 03 11	704	0.5+	0.1−	2000 04 12	608	0.0	0.2−
2000 02 11	704	0.3+	0.2−	2000 03 11	704	0.1−	0.1+				

2000 EB₁₇ = 1998 TK₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27571500	ω	193.46098	−0.93676086	+0.34993507		
<i>a</i>	2.3379171	Ω	7.02833	−0.31722661	−0.84305433		
<i>e</i>	0.1563356	<i>i</i>	2.31997	−0.14780514	−0.40841750		
<i>P</i>	3.57	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 15	691	0.2−	0.2−	2000 03 08	704	1.5−	0.3+	2000 04 05	704	0.5+	0.5−
1998 10 15	691	0.3−	0.0	2000 03 08	704	0.1−	0.2+	2000 04 05	704	0.1+	0.6−
1998 10 15	691	0.3−	0.8−	2000 03 08	704	0.3−	0.3−	2000 04 05	704	0.0	0.6+
1998 10 20	691	1.4−	0.0	2000 03 11	704	0.2+	0.5−	2000 04 05	704	0.1−	0.2+
1998 10 20	691	(2.5−	0.1−)	2000 03 11	699	0.2−	0.1+	2000 04 05	704	0.7+	0.3+
1998 10 20	691	1.3−	0.1−	2000 03 11	704	0.2+	0.2−	2000 04 05	704	0.2−	0.6+
1998 10 21	910	1.1+	0.5+	2000 03 11	704	0.2+	0.4−	2000 04 06	704	1.1−	0.6−
1998 10 21	910	1.2+	0.2+	2000 03 11	699	0.4−	0.2+	2000 04 06	704	1.0+	0.4−
1998 10 21	910	1.3+	0.1+	2000 03 11	704	0.2+	0.3−	2000 04 06	691	0.0	0.7−
2000 02 27	703	0.7+	0.7+	2000 03 11	699	0.7−	0.2+	2000 04 06	704	0.2+	0.1−
2000 02 27	703	0.6−	0.1+	2000 03 11	704	0.2+	0.2−	2000 04 06	691	0.2−	0.8−
2000 02 27	703	0.4−	0.2−	2000 03 11	699	0.2−	0.0	2000 04 06	691	0.1+	0.5−
2000 02 27	703	0.3+	0.1−	2000 04 02	699	0.3−	0.2−	2000 04 10	704	0.2+	0.0
2000 03 03	704	0.7+	0.2+	2000 04 02	699	0.8−	0.5+	2000 04 10	704	0.1+	0.5+
2000 03 03	704	0.9+	0.0	2000 04 02	699	0.9−	0.5+	2000 04 10	704	1.4+	0.9−
2000 03 03	704	0.4+	0.1−	2000 04 02	699	1.1−	0.4+	2000 04 10	704	0.4−	0.6+
2000 03 03	704	0.3+	0.2+	2000 04 05	704	0.1−	0.8+	2000 04 10	704	0.1+	0.4+
2000 03 03	704	0.6+	0.1−	2000 04 05	704	0.4+	0.1−				

2000 EE₁₇ = 1981 UX₁ = 1997 SQ₅ = 1998 VH₃₅

2000 APR. 18

M.P.C. 40133

1992 10 23	691	0.2−	0.8−	1998 12 17	704	0.9−	0.7−	2000 03 11	704	0.1−	0.2+
1997 09 23	691	0.3−	1.0+	1998 12 17	704	(1.0−	2.1−)	2000 03 11	704	0.4−	0.2+
1997 09 23	691	0.1+	0.8+	1998 12 17	704	0.2+	0.8−	2000 03 11	704	0.6−	0.1−
1997 09 23	691	0.2+	0.6+	1998 12 25	327	0.0	0.8+	2000 03 11	704	0.3−	0.2−
1997 09 29	691	0.4−	0.2−	1998 12 25	327	0.1+	0.6+	2000 03 11	704	1.1−	0.1−
1997 09 29	691	0.6−	0.1+	1998 12 25	327	0.2+	0.2+	2000 04 03	691	0.2−	0.6−
1997 09 29	691	0.4−	0.5+	1999 01 24	691	0.5−	0.2−	2000 04 03	691	0.2−	0.4−
1998 11 01	327	0.1−	0.4−	1999 01 24	691	0.5−	0.7+	2000 04 03	691	0.2−	0.5−
1998 11 01	327	0.4−	0.1−	1999 01 24	691	1.0−	0.2+	2000 04 04	704	1.1+	0.2+
1998 11 01	327	0.7−	0.2−	2000 02 27	703	0.5+	0.2−	2000 04 04	704	0.5+	0.8+
1998 11 09	327	0.1+	0.3+	2000 02 27	703	0.0	0.1−	2000 04 04	704	0.1+	0.5+
1998 11 09	327	0.1+	0.3+	2000 02 27	703	0.6−	0.3+	2000 04 04	704	1.0+	1.5+
1998 11 09	327	0.2−	0.3+	2000 02 27	703	0.3+	0.4+	2000 04 04	704	0.7+	1.5+
1998 11 14	327	0.1+	0.5−	2000 03 03	704	0.2−	0.4+	2000 04 05	704	0.5+	1.4+
1998 11 14	327	0.1−	0.6−	2000 03 03	704	0.3+	0.1−	2000 04 05	704	0.5+	0.0
1998 11 14	327	0.2−	0.8−	2000 03 03	704	0.1−	0.6+	2000 04 05	704	0.2+	0.5+
1998 11 24	704	0.0	0.9+	2000 03 04	691	0.6−	0.4−	2000 04 05	704	0.7+	0.3−
1998 11 24	704	0.4+	0.5+	2000 03 04	691	0.5−	0.4−				
1998 11 24	704	1.1+	0.9+	2000 03 04	691	0.6−	0.5−				

2000 EK₁₇ = 1998 XA₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	2.33749	(2000.0)	P	Q	
<i>n</i>	0.17823767	ω	187.73107	−0.98203944	−0.18495934
<i>a</i>	3.1270612	Ω	341.48340	+0.17877850	−0.84906969
<i>e</i>	0.0996614	<i>i</i>	6.73842	+0.06030577	−0.49484413
<i>P</i>	5.53	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1991 09 07	691	0.2−	0.5−	2000 02 08	704	0.1+	0.0	2000 03 11	704	0.0	0.2−
1991 09 07	691	0.3+	0.4+	2000 02 08	704	0.2+	0.6+	2000 03 11	704	0.3−	0.3−
1997 07 04	691	0.2+	0.2+	2000 02 08	704	0.3−	0.2+	2000 03 11	704	0.6−	0.3−
1997 07 04	691	0.2−	0.4−	2000 02 27	703	0.2+	0.0	2000 03 11	704	0.3−	0.7−
1998 12 14	704	0.5+	0.1−	2000 02 27	703	0.0	0.2−	2000 03 11	704	0.8−	0.5−
1998 12 14	704	0.1+	0.9+	2000 02 27	703	1.1+	0.8−	2000 04 02	699	0.4−	0.4+
1998 12 14	704	0.0	0.4+	2000 02 27	703	0.2−	0.8+	2000 04 02	699	0.1+	0.9+
1998 12 14	704	(0.9−	2.8+)	2000 03 03	704	0.1−	0.4+	2000 04 02	699	0.1+	0.3+
1998 12 17	704	0.6−	1.3−	2000 03 03	704	0.1−	0.5+	2000 04 02	699	0.8−	0.3+
1998 12 17	704	(0.9+	3.6−)	2000 03 03	704	0.3−	0.0	2000 04 08	704	0.3−	0.3+
1998 12 17	704	(0.2+	3.3−)	2000 03 08	704	0.7+	0.4+	2000 04 08	704	0.3−	0.9+
2000 01 05	704	1.2−	1.5−	2000 03 08	704	0.7+	0.8−	2000 04 08	704	0.1+	0.3+
2000 01 05	704	0.1+	0.6+	2000 03 08	704	0.4+	0.2+	2000 04 11	608	0.3−	0.9−
2000 01 05	704	(2.2−	1.2+)	2000 03 08	704	0.6+	0.7−	2000 04 11	608	0.2+	0.7−
2000 02 08	704	0.7+	0.7+	2000 03 08	704	0.7+	0.7+	2000 04 11	608	0.1−	0.8−

2000 EZ₁₉ = 1999 CA₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	292.47220	(2000.0)	P	Q	
<i>n</i>	0.18394226	ω	199.56204	−0.12982433	+0.97658291
<i>a</i>	3.0620694	Ω	63.30010	−0.88222661	−0.03479737
<i>e</i>	0.0631068	<i>i</i>	11.07139	−0.45257249	−0.21230864
<i>P</i>	5.36	<i>H</i>	12.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1997 10 29	704	0.2+	0.3+	1998 12 17	699	0.5−	1.1+	2000 03 29	704	0.2+	0.0
1997 10 29	704	(2.5−	0.2−)	1999 02 10	704	0.3−	0.7−	2000 03 29	704	0.0	0.4+
1997 10 29	704	(2.6−	0.9−)	1999 02 10	704	0.5−	0.5+	2000 03 29	704	0.3−	0.2+
1997 10 29	704	2.0−	0.7+	1999 02 10	704	0.7+	1.2−	2000 03 29	704	0.0	0.2+
1997 10 29	704	1.7−	0.1−	1999 02 10	704	1.0−	1.0−	2000 03 29	704	0.1−	0.4+
1997 10 30	704	0.9+	1.4−	1999 02 13	704	1.5+	0.1+	2000 04 05	704	0.4−	0.1+
1997 10 30	704	0.8+	1.3−	1999 02 13	704	0.3−	0.1−	2000 04 05	704	0.0	0.1+
1997 10 30	704	0.3−	1.9−	1999 02 13	704	0.0	0.3−	2000 04 05	704	0.1−	0.0
1997 10 30	704	0.7+	1.4−	1999 02 13	704	0.4+	0.6−	2000 04 05	704	0.2−	0.2+
1997 10 31	704	1.8−	0.8+	2000 03 07	704	0.2+	0.4−	2000 04 05	704	0.4−	0.2−
1997 10 31	704	1.6−	0.8+	2000 03 07	704	0.1+	0.0	2000 04 08	704	0.2+	0.0
1997 10 31	704	1.6−	0.5+	2000 03 07	704	0.6−	0.6+	2000 04 08	704	0.3−	0.6−

1997 10 31	704	0.2−	0.1−	2000 03 08	704	1.5+	0.8−	2000 04 08	704	0.5+	1.1−
1997 10 31	704	(2.5−	0.6+)	2000 03 08	704	0.2+	1.0+	2000 04 08	704	0.1+	1.0−
1997 11 06	704	1.4+	0.7+	2000 03 08	704	0.2+	0.2+	2000 04 13	704	0.2−	0.5+
1997 11 06	704	1.3+	0.5+	2000 03 08	704	0.3+	0.6−	2000 04 13	704	0.1−	0.1+
1997 11 06	704	1.5+	1.1+	2000 03 08	704	0.5+	0.4+	2000 04 13	704	0.3−	0.3+
1997 11 06	704	1.3+	0.8+	2000 03 11	699	0.4+	0.1−	2000 04 13	704	0.8−	0.6+
1997 11 06	704	0.9+	0.3+	2000 03 11	699	0.4+	0.2+	2000 04 13	704	0.2−	0.2+
1998 12 17	699	0.3−	0.7+	2000 03 11	699	0.2+	0.0				
1998 12 17	699	0.5+	1.1+	2000 03 11	699	0.3−	0.2+				

2000 EE₂₀ = 1983 GN₁ = 1999 CZ₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	247.85519	(2000.0)	P	Q	
<i>n</i>	0.17503223	ω	126.41047	+0.65297125	+0.75727938
<i>a</i>	3.1651237	Ω	184.41781	−0.73644787	+0.63097948
<i>e</i>	0.0789285	<i>i</i>	9.34592	−0.17684195	+0.16850172
<i>P</i>	5.63	<i>H</i>	12.3	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1983 04 09	095	(78.8−	15.9+)	2000 03 07	120	0.7−	0.4+	2000 04 05	704	0.2−	0.4+
1997 11 28	566	0.3−	0.3+	2000 03 07	120	0.4+	0.2−	2000 04 05	704	0.1−	0.4+
1997 11 28	566	0.4−	0.0	2000 03 07	120	1.1−	0.5−	2000 04 06	699	0.2−	0.2+
1997 11 28	566	0.6+	0.2−	2000 03 09	120	0.6−	0.8+	2000 04 06	704	0.1−	0.4+
1998 12 24	699	0.1−	0.4+	2000 03 09	120	0.6+	1.4−	2000 04 06	699	0.0	0.1+
1998 12 24	699	0.7+	0.9−	2000 03 09	120	0.3+	0.2+	2000 04 06	704	0.1+	0.2+
1998 12 24	699	0.1−	1.0+	2000 03 09	120	0.3−	1.1−	2000 04 06	704	0.0	0.5+
1999 01 14	699	0.3−	0.1+	2000 03 09	704	0.2+	0.2−	2000 04 06	699	0.2+	0.3+
1999 01 14	699	0.6−	1.0−	2000 03 09	704	0.1+	0.3−	2000 04 06	704	0.1−	0.3+
1999 01 14	699	0.7−	0.0	2000 03 09	704	0.7+	0.1+	2000 04 06	699	0.1−	0.3+
1999 02 12	704	0.5−	0.4+	2000 03 09	704	0.3+	0.3−	2000 04 06	704	0.3−	0.5+
1999 02 12	704	0.1+	0.3−	2000 03 09	704	0.1+	0.5+	2000 04 07	704	0.3−	0.4+
1999 02 12	704	0.1+	0.1+	2000 03 27	699	0.2+	0.2+	2000 04 07	704	0.2−	0.5+
1999 02 12	704	0.8−	0.1+	2000 03 27	699	0.2−	0.3+	2000 04 07	704	0.2−	0.8+
1999 02 12	704	0.0	0.1−	2000 03 27	699	0.2+	0.1−	2000 04 07	704	0.2−	0.5+
1999 02 16	704	0.7−	2.0+	2000 03 27	699	0.0	0.2+	2000 04 07	704	0.1−	0.5+
1999 02 16	704	1.9+	0.8−	2000 03 29	120	1.4−	0.4−	2000 04 10	704	0.8+	0.4−
1999 02 16	704	1.3+	0.5−	2000 03 29	120	0.0	0.1−	2000 04 10	704	0.1+	0.2+
2000 03 04	703	0.4−	0.2−	2000 04 02	699	0.6+	0.1−	2000 04 10	704	0.3−	0.0
2000 03 04	703	0.1+	0.0	2000 04 02	699	0.3+	0.1+	2000 04 10	704	0.4+	0.0
2000 03 04	703	0.3−	0.0	2000 04 02	699	0.5+	0.1−	2000 04 10	704	0.2−	0.1+
2000 03 04	703	0.1+	0.5−	2000 04 02	699	0.4+	0.1+	2000 04 11	608	0.8+	1.1−
2000 03 06	608	0.2−	0.5−	2000 04 05	704	0.2−	0.3+	2000 04 11	608	0.1+	1.1−
2000 03 06	608	0.0	0.3−	2000 04 05	704	0.1−	0.4+	2000 04 11	608	0.5+	0.9−
2000 03 06	608	0.1+	0.5−	2000 04 05	704	0.4−	0.0				

2000 EK₂₁ = 1998 UL₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	81.69618		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23550745	ω	198.52336	+0.40059870	-0.90196245
a	2.5969661	Ω	228.21087	+0.86560189	+0.43023460
e	0.1197079	i	12.48575	+0.30042312	-0.03690425
P	4.19	H	15.0	G 0.15	U 4

M.P.C. 40134

2000 APR. 18

2000 ER₂₃ = 1996 GO₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	344.36313		(2000.0)	P		Q	
<i>n</i>	0.23931421	ω	4.37481	−0.96247956	+0.27117446		
<i>a</i>	2.5693527	Ω	191.37404	−0.25045723	−0.90177459		
<i>e</i>	0.1344477	<i>i</i>	2.87006	−0.10442352	−0.33655164		
<i>P</i>	4.12	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1996 04 13	691	0.6−	0.1+	2000 03 10	704	0.2−	0.5−
1996 04 13	691	0.6−	0.3+	2000 03 10	704	0.0	0.4+
1996 04 13	691	0.6−	0.6+	2000 03 10	704	0.2+	0.5+
1996 04 19	691	0.8+	0.6−	2000 03 10	704	0.8+	0.1+
1996 04 19	691	0.6+	0.2−	2000 03 11	704	0.1+	0.2+
1996 04 19	691	0.5+	0.2−	2000 03 11	704	0.0	0.0
1998 11 26	691	0.0	0.2−	2000 03 11	704	0.2+	0.3+
1998 11 26	691	0.2+	0.1+	2000 03 11	704	0.3−	0.2+
1998 11 26	691	0.2−	0.0	2000 03 11	704	0.1−	0.8+
2000 03 08	691	0.4−	0.5−	2000 03 26	699	0.7+	0.9+
2000 03 08	691	0.3−	0.3−	2000 03 26	699	0.1−	0.4+
2000 03 08	691	0.3−	0.3−	2000 03 26	699	0.2−	0.7+
2000 03 09	691	0.1−	0.6−	2000 03 26	699	0.9−	0.7+
2000 03 09	691	0.0	0.6−	2000 04 04	704	1.6+	1.0−
2000 03 09	691	0.0	0.4−	2000 04 04	704	0.1−	0.3+
2000 03 10	704	0.4+	0.3+	2000 04 04	704	0.2−	0.1+

2000 EM₂₄ = 1994 RY₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	277.44809		(2000.0)	P		Q	
<i>n</i>	0.29676249	ω	281.41308	+0.19184955	+0.98142420		
<i>a</i>	2.2260250	Ω	359.64632	−0.86304170	+0.16844702		
<i>e</i>	0.1919075	<i>i</i>	4.99956	−0.46728232	+0.09182669		
<i>P</i>	3.32	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1991 11 08	691	0.2−	0.9+	2000 03 10	704	0.7−	0.2−
1991 11 08	691	0.8−	0.6+	2000 03 10	704	0.4+	0.4−
1991 11 08	691	0.2−	0.9+	2000 03 10	704	0.7−	1.2+
1994 09 05	809	0.2−	0.0	2000 03 11	691	0.7−	0.3−
1994 09 05	809	0.5−	1.5+	2000 03 11	691	0.5−	0.2−
1994 09 05	809	1.6−	0.5+	2000 03 11	704	0.3+	0.1+
1994 09 06	809	0.8+	0.4−	2000 03 11	691	0.9−	0.0
1994 09 06	809	0.0	0.4+	2000 03 11	704	0.0	0.6+
1994 09 06	809	0.6+	0.1+	2000 03 11	704	0.4−	0.9−
2000 03 08	691	0.0	0.4−	2000 03 11	704	0.6+	0.1−
2000 03 08	691	0.2+	0.3−	2000 03 11	704	1.8+	0.5+
2000 03 08	691	0.0	0.3−	2000 03 26	699	0.1−	0.3−
2000 03 09	691	0.2−	0.1−	2000 03 26	699	1.2+	1.0+
2000 03 09	691	0.4−	0.2−	2000 03 26	699	0.5+	0.4+
2000 03 09	691	0.1−	0.2−	2000 03 26	699	0.1−	0.4+
2000 03 10	704	0.3+	0.6−	2000 04 05	704	0.2+	0.3−

2000 EO₂₄ = 1994 TA₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	2.80945		(2000.0)	P		Q					
n	0.26438885	ω	342.17098	−0.99047007	−0.13769257						
a	2.4042187	Ω	189.91624	+0.12847362	−0.91548733						
e	0.1183707	i	1.04149	+0.04963437	−0.37805251						
P	3.73	H	15.8	G	0.15	U	4				
Residuals in seconds of arc											
1994 10 02	691	0.5+	0.5+	2000 03 10	704	0.6+	0.0	2000 04 06	704	0.1+	0.1+
1994 10 02	691	0.3+	0.5+	2000 03 10	704	0.1+	0.7+	2000 04 06	704	0.5+	1.3−
1994 10 02	691	0.2+	0.4+	2000 03 10	704	1.6+	1.1+	2000 04 06	704	0.3+	0.9+
1994 10 06	691	0.2+	0.5−	2000 03 11	704	0.8+	0.3+	2000 04 06	704	0.0	0.1+

1994 10 06	691	0.5−	0.3−	2000 03 11	704	0.8+	0.4+	2000 04 07	704	0.2+	0.2+
1994 10 06	691	0.2−	0.0	2000 03 11	704	0.6+	0.1+	2000 04 07	704	0.1−	0.4+
1994 10 11	691	0.6−	0.5−	2000 03 11	704	0.3+	0.1+	2000 04 07	704	0.0	0.1+
1994 10 11	691	0.5−	0.1+	2000 03 11	704	0.3+	0.1−	2000 04 07	699	0.6−	0.2+
1994 10 11	691	0.5+	0.1+	2000 03 26	699	0.9−	0.0	2000 04 07	704	0.7−	0.3−
1998 10 19	691	0.1−	0.6+	2000 03 26	699	0.8−	0.2+	2000 04 07	699	0.6−	0.0
1998 10 19	691	0.3−	0.4+	2000 03 26	699	1.0−	0.2+	2000 04 07	704	0.6−	0.0
1998 10 19	691	0.1−	0.5+	2000 03 26	699	1.1−	0.6−	2000 04 07	699	0.5−	0.2+
2000 03 08	704	1.4+	1.1−	2000 04 04	704	0.5−	0.9+	2000 04 07	699	0.5−	0.4+
2000 03 08	691	1.1−	0.4−	2000 04 04	704	1.9+	0.5+	2000 04 08	704	1.1+	0.6+
2000 03 08	704	0.1−	0.6−	2000 04 04	704	0.6+	0.2+	2000 04 08	704	0.3+	1.2+
2000 03 08	704	0.3−	0.6+	2000 04 04	704	(3.2+	0.2+)	2000 04 08	704	0.4+	0.9−
2000 03 08	691	1.0−	0.4−	2000 04 05	704	0.4+	0.1+	2000 04 08	704	0.3−	0.4−
2000 03 08	704	0.4+	1.3−	2000 04 05	704	0.4+	0.1−	2000 04 08	704	0.8+	0.3−
2000 03 08	691	1.1−	0.4−	2000 04 05	704	0.1−	0.2−	2000 04 10	704	0.6−	0.3+
2000 03 09	691	1.0−	0.5−	2000 04 05	704	0.1+	0.2−	2000 04 10	704	0.1+	0.1−
2000 03 09	691	1.0−	0.3−	2000 04 05	704	0.4+	0.2−	2000 04 10	704	0.7+	1.0+
2000 03 09	691	0.8−	1.7−	2000 04 05	688	0.1+	0.3−	2000 04 10	704	0.1−	0.1+
2000 03 10	704	0.2+	0.4+	2000 04 05	688	0.3−	0.1+	2000 04 10	704	0.3+	1.3+

2000 EC₂₅ = 1996 GB₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	18.63723		(2000.0)	P		Q	
<i>n</i>	0.24409136	ω	329.12131	−0.85244549	−0.52281298		
<i>a</i>	2.5357189	Ω	179.34917	+0.50631807	−0.82640425		
<i>e</i>	0.1894485	<i>i</i>	9.17706	+0.13030237	−0.20909951		
<i>P</i>	4.04	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1996 04 11	691	0.3−	0.1+	2000 02 08	704	0.5+	0.4−
1996 04 11	691	0.2−	0.0	2000 02 08	704	0.9+	1.1+
1996 04 11	691	0.0	0.1+	2000 02 08	704	0.7+	0.4+
1996 04 13	691	0.6−	0.3−	2000 03 08	704	0.8−	0.7+
1996 04 13	691	0.8−	0.3−	2000 03 08	691	0.9−	0.4−
1996 04 13	691	0.8−	0.3−	2000 03 08	704	0.0	0.1+
1996 04 14	691	0.6−	0.3−	2000 03 08	704	0.5+	0.5+
1996 04 14	691	0.8−	0.4−	2000 03 08	691	0.8−	0.7−
1996 04 14	691	0.6−	0.3−	2000 03 08	704	0.7+	0.9+
1996 04 15	552	0.4+	0.3−	2000 03 08	704	0.9+	0.3+
1996 04 15	552	0.3+	0.2+	2000 03 08	691	0.9−	0.6−
1996 04 15	552	0.4+	0.1−	2000 03 09	691	0.7−	0.7−
1996 04 16	552	0.3−	0.1−	2000 03 09	691	0.7−	0.7−
1996 04 16	552	0.6−	0.4+	2000 03 09	691	0.7−	0.6−
1996 04 18	552	0.2+	0.1−	2000 03 10	704	0.3−	0.1+
1996 04 18	552	0.4+	0.8−	2000 03 10	704	0.0	0.0
1996 04 19	552	0.5+	0.2−	2000 03 10	704	0.6+	1.4−
1996 04 19	552	0.5+	0.6+	2000 03 10	704	0.1+	0.1+
1996 04 20	552	0.3−	0.0	2000 03 11	691	0.7−	0.8−
1996 04 20	552	0.0	0.2+	2000 03 11	691	0.9−	0.9−
1996 04 21	691	0.9+	0.0	2000 03 11	704	0.0	0.0
1996 04 21	691	0.9+	0.1+	2000 03 11	691	0.9−	0.9−
1996 04 21	691	1.0+	0.3−	2000 03 11	704	0.2+	0.1+
2000 02 08	704	1.1+	1.1+	2000 03 11	704	0.0	0.3−

2000 EN₂₅ = 1996 EC₁₄ = 1998 RS₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	93.70996		(2000.0)	P		Q					
<i>n</i>	0.26211911	ω	49.84543	+0.41030392		−0.91191864					
<i>a</i>	2.4180777	Ω	15.93546	+0.82826328		+0.36923408					
<i>e</i>	0.1798360	<i>i</i>	1.54906	+0.38161581		+0.17908262					
<i>P</i>	3.76	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	2				
Residuals in seconds of arc											
1994 08 12	809	(1.5−	2.2+)	1998 09 26	704	0.4−	0.4+	2000 03 10	704	0.3−	0.3+
1994 08 12	809	(2.7−	3.0+)	1998 09 26	704	0.3−	0.9+	2000 03 10	704	1.2+	0.5−
1994 08 12	809	(2.5−	2.8+)	1998 09 27	704	1.0−	1.2+	2000 03 11	704	0.3+	0.6+

2000 APR. 18

M.P.C. 40135

1996 03 12	691	0.2−	0.1−	1998 09 27	704	1.0−	0.6+	2000 03 11	704	0.9+	0.7+
1996 03 12	691	0.2+	0.2−	1998 09 27	704	0.4−	1.6+	2000 03 11	704	0.4+	1.4+
1996 03 23	691	0.2−	0.5−	1998 09 27	704	0.1−	1.0+	2000 03 11	704	0.8−	0.7+
1996 03 23	691	0.1−	0.1+	1998 09 27	704	1.0−	0.6+	2000 03 11	704	0.9+	1.3+
1996 03 23	691	0.1−	0.5−	1998 10 19	699	0.7+	0.8−	2000 03 11	704	0.1+	0.0
1998 09 01	691	0.4−	0.1+	1998 10 19	699	0.2+	0.5−	2000 03 11	704	0.7+	0.7+
1998 09 01	691	0.7−	0.1−	1998 10 19	699	0.2−	0.2−	2000 03 11	704	0.8−	0.7−
1998 09 01	691	0.7+	0.1+	1998 12 13	704	0.9−	1.2+	2000 03 11	691	0.4−	0.3−
1998 09 14	704	(2.1+ 2.3−)		1998 12 13	704	0.4−	1.3−	2000 03 11	704	0.0	1.0+
1998 09 14	704	1.9−	1.3−	1998 12 13	704	0.5−	0.5+	2000 03 11	704	1.0−	1.0+
1998 09 15	699	1.4+	0.2+	1998 12 13	704	1.5+	0.4−	2000 03 11	691	0.0	0.4−
1998 09 15	699	1.8+	0.8−	1998 12 13	704	1.2+	0.1−	2000 03 11	704	0.1−	0.4+
1998 09 15	699	0.1+	0.4−	1998 12 13	704	0.2−	1.0+	2000 03 11	691	0.4−	0.6−
1998 09 17	699	0.2+	1.2+	1998 12 13	704	0.1−	0.8−	2000 03 11	704	1.1+	0.7+
1998 09 17	699	1.4+	0.2−	1998 12 13	704	0.8−	1.1+	2000 03 11	704	0.6+	0.2+
1998 09 17	699	0.0	1.2+	2000 03 08	691	0.1−	0.4−	2000 03 11	704	0.1+	0.1−
1998 09 18	704	0.5+	0.0	2000 03 08	691	0.3−	0.2−	2000 04 05	704	0.5+	0.3+
1998 09 18	704	1.8−	0.1−	2000 03 08	691	0.1−	0.4−	2000 04 05	704	0.5+	0.7+
1998 09 18	704	0.2−	1.4+	2000 03 09	691	0.2−	0.1−	2000 04 05	704	0.6+	0.6+
1998 09 18	704	0.8+	0.3+	2000 03 09	691	0.1−	0.5−	2000 04 05	704	0.5+	0.6+
1998 09 18	704	0.1+	1.0−	2000 03 09	691	0.2−	0.0	2000 04 05	704	0.8+	1.3+
1998 09 26	704	0.9−	1.2+	2000 03 10	704	0.1−	0.9+	2000 04 06	704	0.1−	0.0
1998 09 26	704	0.7−	1.2+	2000 03 10	704	0.6−	0.0	2000 04 06	704	0.4+	1.2+
1998 09 26	704	0.6−	0.0	2000 03 10	704	1.2+	0.1−	2000 04 06	704	0.4−	0.9+

2000 EW₂₅ = 1996 RT

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.17959884	ω	119.72384	+0.48444535		+0.87482075	
<i>a</i>	3.1112413	Ω	179.24933	−0.83029706		+0.46020966	
<i>e</i>	0.1550156	<i>i</i>	5.11834	−0.27553492		+0.15131334	
<i>P</i>	5.49	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 05 08	010	0.5−	0.3−	2000 03 08	704	0.5−	0.9−	2000 03 11	704	1.5+	0.5+
1995 05 08	010	0.0	0.2+	2000 03 08	691	0.8−	0.7−	2000 03 11	704	1.5+	1.6+
1995 05 08	010	0.4+	0.4−	2000 03 09	691	0.5−	0.8−	2000 03 27	699	0.8−	0.2+
1996 09 09	566	0.1−	0.1+	2000 03 09	691	0.7−	0.8−	2000 03 27	699	1.1−	0.4+
1996 09 09	566	0.1−	0.2+	2000 03 09	691	0.6−	0.8−	2000 03 27	699	0.9−	0.6+
1996 09 09	566	0.5−	0.2−	2000 03 10	704	0.8+	0.4+	2000 03 27	699	1.0−	1.1+
1996 09 10	566	0.3+	0.1+	2000 03 10	704	1.1+	0.8+	2000 04 05	704	0.0	0.3−
1996 09 10	566	0.2+	0.3+	2000 03 10	704	1.5+	0.3+	2000 04 05	704	0.2−	0.1−
1996 09 10	566	0.0	0.4+	2000 03 10	704	0.9+	0.1−	2000 04 05	704	0.2−	0.5−
2000 03 04	688	0.4−	0.2−	2000 03 10	704	0.6+	0.5+	2000 04 05	704	0.4−	0.2−
2000 03 04	688	0.4−	0.1+	2000 03 11	704	0.4+	0.1+	2000 04 06	704	0.3−	0.3−
2000 03 08	704	0.7−	0.8−	2000 03 11	704	0.9−	0.5+	2000 04 06	704	0.2−	0.2−
2000 03 08	691	0.6−	0.8−	2000 03 11	704	0.7+	0.4+	2000 04 06	704	0.5+	0.9+
2000 03 08	704	0.2−	0.2−	2000 03 11	704	0.5+	0.5−	2000 04 06	704	0.7+	0.5−
2000 03 08	691	0.7−	0.7−	2000 03 11	704	1.1+	0.6+	2000 04 06	704	0.4−	0.2−
2000 03 08	704	1.0+	0.1−	2000 03 11	704	0.1+	2.0+				

2000 EY₂₅ = 1998 VX₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.27677679	ω	232.73228	+0.68428497		−0.72919038	
<i>a</i>	2.3319341	Ω	174.07757	+0.68598435		+0.64092647	
<i>e</i>	0.0761116	<i>i</i>	3.30894	+0.24734500		+0.23978041	
<i>P</i>	3.56	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 11 30	691	0.3+	0.0	2000 03 08	691	0.5−	0.4−	2000 03 11	704	0.5−	0.2+
1995 11 30	691	0.1−	0.0	2000 03 09	691	0.1−	0.4−	2000 03 11	704	0.6+	0.4+
1995 11 30	691	0.2−	0.2−	2000 03 09	691	0.4−	0.3−	2000 03 11	704	1.2+	0.9+
1998 11 10	704	0.5−	0.1+	2000 03 09	691	0.1−	0.3−	2000 03 12	704	0.6+	0.2+
1998 11 10	704	(1.3+ 2.6−)		2000 03 10	704	0.3+	0.5+	2000 03 12	704	0.7+	1.0+
1998 11 10	704	0.3+	0.2+	2000 03 10	704	0.3+	0.2+	2000 03 12	704	0.9+	0.3−

1998 11 10	704	0.2−	0.9+	2000 03 10	704	0.1+	0.0	2000 03 12	704	0.8+	0.3+
1998 11 10	704	1.5−	1.4+	2000 03 10	704	0.9+	1.2+	2000 03 13	704	0.3+	0.3+
1998 11 11	704	0.8+	0.3+	2000 03 11	704	0.3+	0.3+	2000 03 13	704	0.2+	0.7−
1998 11 11	704	1.4+	0.4−	2000 03 11	704	0.2+	0.1+	2000 03 13	704	1.1+	1.0−
1998 11 11	704	0.6−	0.7−	2000 03 11	704	0.2+	0.3+	2000 04 05	704	0.7−	0.1−
1998 11 11	704	0.2+	1.6−	2000 03 11	704	0.3+	0.7−	2000 04 05	704	0.4−	0.1+
2000 03 01	703	0.3−	0.6−	2000 03 11	691	0.7−	0.4−	2000 04 05	704	0.6−	0.2+
2000 03 01	703	1.0−	0.4−	2000 03 11	704	0.4+	0.0	2000 04 05	704	0.3−	0.3+
2000 03 01	703	0.3−	0.4+	2000 03 11	691	0.7−	0.6−	2000 04 05	704	0.6−	0.5+
2000 03 01	703	0.0	0.1+	2000 03 11	704	(2.7− 1.2−)		2000 04 06	704	0.9+	0.0
2000 03 08	691	0.5−	0.2−	2000 03 11	691	0.6−	0.2−	2000 04 06	704	0.1+	0.1+
2000 03 08	691	0.5−	0.2−	2000 03 11	704	0.4−	0.4−	2000 04 06	704	1.2−	0.0

2000 EC₂₆ = 1998 XE₈₅

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		Williams		<i>Q</i>	
<i>n</i>	0.26268527	ω	99.08291	+0.10167859		+0.99480031	
<i>a</i>	2.4146021	Ω	176.73600	−0.94813679		+0.09867511	
<i>e</i>	0.1293556	<i>i</i>	5.86112	−0.30116123		+0.02521037	
<i>P</i>	3.75	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1996 03 25	566	0.1−	0.8−	2000 03 10	704	(0.3− 2.9−)	2000 04 06	704	0.1+	0.5+	
1996 03 25	566	0.0	0.0	2000 03 10	704	(1.4− 2.4−)	2000 04 06	704	0.4+	0.1+	
1996 03 25	566	0.2−	0.3−	2000 03 11	704	1.0−	0.8−	2000 04 06	704	0.1+	0.2+
1997 08 30	566	0.0	0.4+	2000 03 11	704	1.0−	0.7−	2000 04 06	704	0.1+	0.1+
1997 08 30	566	0.2−	0.1+	2000 03 11	704	1.5−	0.8−	2000 04 06	704	0.8+	0.2+
1997 08 30	566	0.1−	0.1+	2000 03 11	704	1.6−	1.2−	2000 04 06	704	0.0	0.4+
1998 12 15	704	0.9−	0.1+	2000 03 11	704	1.7−	1.2−	2000 04 06	704	0.1+	0.3+
1998 12 15	704	0.5−	1.1−	2000 03 12	704	1.9−	0.7−	2000 04 07	699	0.2+	0.4+
1998 12 15	704	0.5−	0.2+	2000 03 12	704	0.8−	0.6−	2000 04 07	699	0.2+	0.7+
1998 12 15	704	0.4−	1.2+	2000 03 12	704	1.6−	1.1−	2000 04 07	704	0.3+	0.4+
1998 12 15	704	0.0	1.9+	2000 03 12	704	1.7−	0.6−	2000 04 07	699	0.2−	0.5+
1998 12 22	704	0.1−	0.6−	2000 03 12	704	1.8−	0.7−	2000 04 07	704	0.2+	0.4+
1998 12 22	704	0.7+	0.0	2000 03 13	704	0.0	0.4+	2000 04 07	699	0.1−	0.6+
1998 12 22	704	0.2+	0.1+	2000 03 13	704	0.0	0.3−	2000 04 07	704	0.2+	0.2+
1998 12 22	704	1.5+	0.7+	2000 03 13	704	0.2−	0.0	2000 04 07	704	0.3+	0.1+
2000 03 01	703	0.4+	0.7+	2000 03 13	704	0.1−	0.3−	2000 04 07	704	0.0	0.3+
2000 03 01	703	0.5+	0.1−	2000 03 13	704	0.4−	0.0	2000 04 08	704	0.4+	0.0
2000 03 01	703	0.6+	0.8+	2000 03 27	699	0.1+	0.4+	2000 04 08	704	0.1+	0.4−
2000 03 01	703	0.2−	0.5+	2000 03 27	699	0.1+	0.6+	2000 04 08	704	0.4+	0.1+
2000 03 08	704	0.3−	0.0	2000 03 27	699	0.1+	0.2+	2000 04 08	704	0.4+	0.0
2000 03 08	704	0.4+	0.4+	2000 03 27	699	0.3+	0.3+	2000 04 08	704	0.3+	0.6−
2000 03 08	691	0.7−	0.2−	2000 04 04	704	0.3+	0.1+	2000 04 10	704	0.1−	0.0
2000 03 08	704	0.6+	0.2+	2000 04 04	704	0.6+	0.2+	2000 04 10	704	0.1+	0.0
2000 03 08	691	0.6−	0.2−	2000 04 04	704	1.1+	0.8+	2000 04 10	704	0.3+	0.4−
2000 03 08	704	0.5+	1.0+	2000 04 04	704	0.8+	0.6+	2000 04 10	704	0.1+	0.1+
2000 03 08	704	0.4+	1.0+	2000 04 04	704	0.6+	0.9+	2000 04 10	704	0.0	0.1+
2000 03 08	691	0.5−	0.3−	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.2+	0.1+
2000 03 09	691	0.2−	0.0	2000 04 05	704	0.2+	0.1+	2000 04 10	704	0.6+	0.2−
2000 03 09	691	0.3−	0.0	2000 04 05	704	0.4+	0.1−	2000 04 10	704	0.0	0.1+
2000 03 09	691	0.3−	0.1+	2000 04 05	704	0.4+	0.2−	2000 04 10	704	0.5+	0.2+
2000 03 10	704	0.6+	1.4−	2000 04 05	704	0.5+	0.5−	2000 04 10	704	0.1−	0.2+
2000 03 10	704	0.8+	1.2−	2000 04 06	704	0.1+	0.6+				
2000 03 10	704	0.5+	0.8−	2000 04 06	704	1.7+	1.1+				

Residuals in seconds of arc

1993 03 19	809	0.6−	0.3−	2000 03 04	012	0.2−	1.0−	2000 03 12	704	0.3+	0.4+
1993 03 20	809	0.4−	0.6−	2000 03 04	012	1.7+	0.6+	2000 04 02	699	0.8−	0.5−
1993 03 24	809	0.0	1.0−	2000 03 05	608	(0.1−	2.5−)	2000 04 02	699	0.8−	0.3+
1998 09 26	704	0.0	1.6+	2000 03 05	608	(0.1−	2.6−)	2000 04 02	699	1.0−	0.4+
1998 09 26	704	0.6−	1.4+	2000 03 05	608	(0.1+	2.8−)	2000 04 02	699	0.8−	0.5+
1998 09 26	704	1.6−	1.2+	2000 03 06	012	0.3+	0.1+	2000 04 06	012	0.1+	1.2+
1998 09 26	704	1.1+	0.8+	2000 03 06	012	0.7+	0.1−	2000 04 06	012	0.1+	0.9+
1998 09 27	704	0.1−	0.1−	2000 03 11	699	0.7+	0.5−	2000 04 08	704	0.5+	0.1+
1998 09 27	704	0.1−	0.2+	2000 03 11	699	0.7+	0.6−	2000 04 08	704	0.9+	0.2+
1998 09 27	704	0.3−	1.6−	2000 03 11	699	0.9+	0.1+	2000 04 08	704	0.2+	0.6+
1998 09 27	704	0.2−	0.0	2000 03 11	699	0.1−	0.0	2000 04 08	704	0.5−	0.1−
2000 03 02	703	1.6−	0.2−	2000 03 12	704	0.4+	0.1−	2000 04 08	704	0.6+	0.2+
2000 03 02	703	1.3+	0.1−	2000 03 12	704	0.1−	0.2+	2000 04 10	704	0.9−	0.0
2000 03 02	703	0.8−	0.8−	2000 03 12	704	0.0	0.4−	2000 04 10	704	0.3+	1.7+
2000 03 02	703	0.8−	0.5+	2000 03 12	704	0.4+	0.5+	2000 04 10	704	1.0+	1.5+

2000 ER₂₆ = 1998 QY₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	161.35411	(2000.0)		P	Q		
<i>n</i>	0.36837497	ω	195.18346	+0.97811074	−0.20687367		
<i>a</i>	1.9272704	Ω	176.51373	+0.20752336	+0.97770309		
<i>e</i>	0.0677112	<i>i</i>	21.63539	−0.01527882	+0.03605480		
<i>P</i>	2.68	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 24	704	0.2+	1.0−	2000 03 10	704	0.4−	0.2+	2000 03 26	699	1.1−	1.0+
1998 08 24	704	(2.4−	1.6+)	2000 03 10	704	0.5−	0.2+	2000 03 26	699	0.5−	0.2+
1998 08 24	704	(2.2+	1.7−)	2000 03 10	704	0.9−	0.3−	2000 03 26	699	0.4−	1.1+
1998 08 24	704	0.1−	1.1−	2000 03 11	704	0.3+	1.7−	2000 03 29	704	0.2+	0.8−
1998 08 27	704	0.2−	1.4+	2000 03 11	704	0.1+	0.9+	2000 03 29	704	0.6−	0.8+
1998 08 27	704	0.8−	0.0	2000 03 11	704	1.9+	0.2+	2000 03 29	704	0.0	0.0
1998 08 27	704	1.0+	0.6+	2000 03 11	704	0.4−	0.5−	2000 03 29	704	1.1−	0.8+
1998 08 27	704	(4.0−	0.1+)	2000 03 11	704	1.4+	0.1−	2000 04 07	699	0.8−	1.0−
2000 03 08	704	0.2+	0.9−	2000 03 14	703	0.0	0.1+	2000 04 07	699	0.9+	0.1+
2000 03 08	704	0.4+	0.7+	2000 03 14	703	0.6+	1.2−	2000 04 07	699	0.5−	0.7−
2000 03 08	704	0.5−	0.1−	2000 03 14	703	(2.1−	0.8+)	2000 04 07	699	0.0	0.3+
2000 03 08	704	1.5+	0.4+	2000 03 14	703	(2.1−	0.2−)				
2000 03 10	704	0.8+	0.1−	2000 03 26	699	0.3−	0.1+				

2000 EM₂₈ = 1998 WV₁₃

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	85.87653	(2000.0)		P	Q		
<i>n</i>	0.19289802	ω	15.00621	+0.43437686	−0.88878155		
<i>a</i>	2.9665445	Ω	49.48175	+0.80532827	+0.31050001		
<i>e</i>	0.0951825	<i>i</i>	11.09063	+0.40343911	+0.33713069		
<i>P</i>	5.11	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 18	704	(2.7−	1.0−)	1998 11 24	704	0.7+	0.7+	2000 03 09	704	0.3+	0.2−
1998 11 18	704	0.1+	0.4−	1998 11 24	704	0.4+	0.6+	2000 03 09	704	0.4+	0.2+
1998 11 18	704	0.1+	0.1+	1998 12 14	704	0.7−	0.2+	2000 03 09	704	0.4+	0.4+
1998 11 18	704	0.5+	1.2+	1998 12 14	704	0.7+	1.0−	2000 03 12	704	0.1+	0.4+
1998 11 18	704	0.7+	1.4+	1998 12 14	704	0.4−	0.2−	2000 03 12	704	0.2−	0.0
1998 11 20	699	0.3+	0.2+	1998 12 14	704	0.0	0.7+	2000 03 12	704	0.4+	0.5−
1998 11 20	699	0.1+	0.2+	1998 12 14	704	1.2+	0.7+	2000 03 12	704	0.1+	0.2+
1998 11 20	699	0.4−	0.1+	2000 02 03	704	0.0	0.3−	2000 03 12	704	0.1−	0.1+
1998 11 20	699	0.6+	0.7+	2000 02 03	704	0.0	0.4+	2000 03 26	699	0.4−	0.3+
1998 11 20	699	0.8−	0.0	2000 02 03	704	0.4−	0.2+	2000 03 26	699	0.2+	0.4+
1998 11 20	699	0.0	0.4+	2000 02 03	704	0.3+	0.3+	2000 03 26	699	0.3+	0.3+
1998 11 21	704	0.4−	0.8−	2000 02 03	704	0.1+	0.2−	2000 03 26	699	0.4−	0.3+
1998 11 21	704	0.7−	0.8−	2000 03 04	704	0.1−	0.0	2000 03 28	608	0.1−	0.4−
1998 11 21	704	0.5−	1.0−	2000 03 04	704	0.1−	0.3−	2000 03 28	608	0.3−	0.6−
1998 11 21	704	0.2−	0.0	2000 03 04	704	0.4−	0.5−	2000 03 28	608	0.7+	1.0−
1998 11 21	704	0.6−	2.0−	2000 03 04	704	0.5−	0.3−	2000 04 02	704	0.1+	0.1+

1998 11 24	704	0.1+	0.7−	2000 03 04	704	0.1+	0.3−	2000 04 02	704	0.2−	0.1+
1998 11 24	704	0.6−	0.9+	2000 03 09	704	0.0	0.1+	2000 04 02	704	0.5−	0.1+
1998 11 24	704	0.1+	1.1−	2000 03 09	704	0.3+	0.4+	2000 04 02	704	0.4−	0.1+

2000 ER₂₈ = 1998 SE₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	65.58275	(2000.0)		P	Q		
<i>n</i>	0.23801368	ω	48.08946	+0.24168097	−0.96357647		
<i>a</i>	2.5787036	Ω	28.53587	+0.80415961	+0.13284907		
<i>e</i>	0.1308000	<i>i</i>	13.86823	+0.54306319	+0.23210235		
<i>P</i>	4.14	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 17	910	0.0	0.1+	2000 03 04	704	0.0	0.0	2000 03 09	704	0.6+	0.3+
1998 09 18	910	0.2+	0.0	2000 03 04	704	0.6+	0.4−	2000 03 09	704	0.3−	0.5−
1998 09 18	910	0.1+	0.1−	2000 03 04	704	0.4−	0.4+	2000 03 12	704	0.2+	0.7+
1998 09 22	910	0.1−	0.0	2000 03 04	704	0.3−	0.1+	2000 03 12	704	0.0	0.6−
1998 09 23	910	0.1−	0.1−	2000 03 09	704	0.1+	0.4+	2000 03 12	704	0.2+	0.0
1998 09 23	910	0.1−	0.1−	2000 03 09	704	0.8−	0.3+	2000 03 12	704	1.3−	0.7−
2000 03 04	704	0.3−	0.1+	2000 03 09	704	0.6+	0.3−	2000 03 12	704	0.9+	0.4+

2000 ER₂₉ = 1998 XU₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	234.36780	(2000.0)		P	Q		
<i>n</i>	0.19860501	ω	187.50339	+0.11629200	+0.99168701		
<i>a</i>	2.9094389	Ω	89.18619	−0.90837213	+0.12861867		
<i>e</i>	0.0192106	<i>i</i>	3.15737	−0.40166683	−0.00375524		
<i>P</i>	4.96	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 24	704	1.1+	0.0	2000 02 03	704	0.7−	1.3+	2000 02 25	703	(2.7−	0.5+)
1998 11 24	704	1.2+	1.2−	2000 02 03	704	0.7+	0.2+	2000 02 25	703	0.7−	0.5−
1998 11 24	704	0.3−	1.2+	2000 02 06	703	0.1−	1.2+	2000 02 25	703	(2.9−	0.1−)
1998 11 24	704	1.9−	1.3+	2000 02 06	703	0.9−	1.0−	2000 03 05	704	1.0−	1.5−
1998 12 10	691	0.1+	0.4−	2000 02 06	703	0.5−	0.4+	2000 03 05	704	0.4−	0.1−
1998 12 10	691	0.2+	0.7−	2000 02 06	703	0.7+	1.0+	2000 03 05	704	1.7−	0.8+
1998 12 15	691	0.1−	0.0	2000 02 11	704	1.4+	0.7+	2000 03 05	704	0.4+	1.0+
1998 12 15	691	0.1−	0.1−	2000 02 11	704	1.2+	1.5−	2000 03 09	704	0.2+	0.2+
1998 12 15	691	0.3−	0.3−	2000 02 11	704	1.3+	0.6−	2000 03 09	704	0.4+	0.1−
2000 02 03	704	0.5−	0.0	2000 02 11	704	0.2−	0.0	2000 03 09	704	0.0	0.9−
2000 02 03	704	0.4−	0.3+	2000 02 11	704	0.3+	0.3−	2000 03 09	704	0.9+	0.3−
2000 02 03	704	0.3−	0.3−	2000 02 25	703	0.6−	0.6+	2000 03 09	704	0.4+	0.6−

2000 ET₃₁ = 1998 XD₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	218.13180	(2000.0)		P	Q		
<i>n</i>	0.20438822	ω	288.92832	+0.64158899	+0.76245009		
<i>a</i>	2.8542947	Ω	21.66744	−0.59011328	+0.56048347		
<i>e</i>	0.1151802	<i>i</i>	13.12895	−0.49003050	+0.32330813		
<i>P</i>	4.82	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 30	704	1.3+	1.1+	2000 02 03	704	0.1−	0.7+	2000 03 09	704	0.4+	0.3+
1997 10 30	704	1.6−	0.6+	2000 02 03	704	0.2−	0.1−	2000 03 09	704	0.2+	0.3−
1997 10 30	704	1.2−	0.4+	2000 02 03	704	0.4−	0.2−	2000 03 12	704	0.2+	0.4−
1997 10 30	704	(0.6−	3.9+)	2000 02 03	704	1.1−	0.3+	2000 03 12	704	1.4+	0.0
1998 12 14	704	1.8−	0.5+	2000 02 03	704	1.3−	0.0	2000 03 12	704	1.4+	0.6+
1998 12 14	704	(2.5−	2.1+)	2000 03 05	704	0.3+	0.7+	2000 03 12	704	0.2+	0.1−
1998 12 14	704	0.6+	1.6+	2000 03 05	704	0.3−	0.1+	2000 03 26	699	0.1+	0.3+
1998 12 17	704	0.1+	0.0	2000 03 05	704	0.1+	0.2−	2000 03 26	699	0.3−	0.3−
1998 12 17	704	0.6+	0.8−	2000 03 09	704	0.1−	0.1+	2000 03 26	699	0.2+	0.6+
1998 12 17	704	0.6+	0.9−	2000 03 09	704	0.5+	0.2−	2000 03 26	699	0.1−	0.5+
1998 12 17	704	0.1−	1.2−	2000 03 09	704	0.2+	0.1−				

2000 APR. 18

M.P.C. 40137

2000 ET₃₂ = 1998 XW₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	117.53710		(2000.0)	P	Q
<i>n</i>	0.19087688	ω	33.08254	+0.84040949	-0.54195120
<i>a</i>	2.9874490	Ω	359.72928	+0.44781313	+0.69534371
<i>e</i>	0.1037938	<i>i</i>	10.76225	+0.30524626	+0.47200214
<i>P</i>	5.16	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 14	704	0.2-	0.1-	2000 03 05	704	0.1+	0.1-	2000 03 12	704	0.3-	0.6-
1998 12 14	704	0.2-	0.6-	2000 03 05	704	0.4+	0.2-	2000 03 12	704	0.2-	0.5-
1998 12 14	704	1.2-	1.0+	2000 03 05	704	0.3+	0.5-	2000 03 28	704	0.2+	0.5+
1998 12 14	704	0.4+	0.8+	2000 03 08	704	0.0	0.4-	2000 03 28	704	0.4-	0.9+
1998 12 17	704	0.0	0.3+	2000 03 08	704	0.5-	0.3+	2000 03 28	704	1.3-	0.4+
1998 12 17	704	0.8+	0.6-	2000 03 08	704	(3.0-	3.7+)	2000 04 03	699	1.2+	0.4-
1998 12 17	704	0.2-	0.8-	2000 03 09	704	0.1-	0.1+	2000 04 03	699	0.7+	0.1-
1998 12 17	704	0.6+	0.1-	2000 03 09	704	0.1-	0.3+	2000 04 03	699	0.7+	0.5+
2000 03 02	703	0.7-	0.0	2000 03 09	704	0.2-	0.2+	2000 04 03	704	0.4+	0.3-
2000 03 02	703	0.3+	0.1+	2000 03 09	704	0.2-	0.3+	2000 04 03	699	0.1-	0.5-
2000 03 02	703	0.3-	0.0	2000 03 09	704	0.8+	1.1+	2000 04 03	704	0.1+	1.0-
2000 03 02	703	0.3+	0.0	2000 03 12	704	0.1+	0.5-	2000 04 03	704	0.7-	0.5+
2000 03 05	704	0.6+	0.2+	2000 03 12	704	0.6-	0.3-	2000 04 03	704	0.1+	0.7+
2000 03 05	704	0.6+	0.3+	2000 03 12	704	0.2-	0.7-	2000 04 03	704	0.8-	0.3-

2000 EE₃₃ = 1993 FW₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	107.35956		(2000.0)	P	Q
<i>n</i>	0.27277578	ω	265.63119	+0.74467682	-0.66118804
<i>a</i>	2.3546815	Ω	135.72469	+0.65233769	+0.69220448
<i>e</i>	0.1194340	<i>i</i>	7.49261	+0.14110977	+0.28928072
<i>P</i>	3.61	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 03 17	809	1.1-	0.5+	2000 03 05	704	0.4+	0.5-	2000 03 12	704	0.0	0.0
1993 03 18	809	0.8+	1.4-	2000 03 05	704	0.5+	0.1+	2000 03 28	704	0.4-	0.1+
2000 02 04	704	0.3-	0.4+	2000 03 05	704	0.4+	0.2+	2000 03 28	704	0.4-	0.5+
2000 02 04	704	0.1-	0.6+	2000 03 05	704	0.7+	0.3+	2000 03 28	704	1.4-	0.1+
2000 02 04	704	0.5+	0.4+	2000 03 09	704	0.4-	1.0-	2000 03 28	704	0.0	0.0
2000 02 11	704	0.2-	1.5-	2000 03 09	704	0.1+	0.6-	2000 04 03	699	0.4-	0.1-
2000 02 11	704	0.4+	0.4+	2000 03 09	704	0.1+	0.4-	2000 04 03	699	0.2-	0.6+
2000 02 11	704	0.5+	1.2-	2000 03 09	704	0.6+	0.2+	2000 04 03	704	0.9-	0.1+
2000 03 02	703	0.5-	0.4-	2000 03 09	704	0.3+	0.1-	2000 04 03	699	0.2+	1.5+
2000 03 02	703	0.3+	0.4-	2000 03 12	704	0.2+	0.3-	2000 04 03	704	0.3-	0.0
2000 03 02	703	0.2+	0.1+	2000 03 12	704	0.2+	0.2+	2000 04 03	699	0.2-	1.1+
2000 03 02	703	0.6-	0.1+	2000 03 12	704	0.0	0.2+	2000 04 03	704	0.3+	0.7+
2000 03 05	704	0.3-	0.6+	2000 03 12	704	0.3+	0.0	2000 04 03	704	0.7+	0.8-

2000 EP₃₄ = 1999 BR₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	166.20113		(2000.0)	P	Q
<i>n</i>	0.16950323	ω	311.18467	+0.96970819	-0.11151834
<i>a</i>	3.2335834	Ω	56.31590	+0.21124156	+0.82959273
<i>e</i>	0.0298377	<i>i</i>	15.13966	-0.12265005	+0.54711934
<i>P</i>	5.81	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 17	704	0.5+	0.7+	2000 03 05	704	(3.9-	0.2+)	2000 03 29	704	0.1-	0.3-
1998 12 17	704	1.1+	0.3-	2000 03 05	704	(2.6-	0.9+)	2000 03 29	704	0.0	0.1-
1998 12 17	704	0.3+	0.1+	2000 03 09	704	0.2-	0.1-	2000 03 29	704	0.7-	0.4+
1998 12 17	704	0.7-	0.1+	2000 03 09	704	0.6+	0.4-	2000 03 29	704	0.1-	0.0
1998 12 17	704	0.6+	1.1+	2000 03 09	704	0.3-	0.9-	2000 04 04	704	0.4+	0.0
1999 01 16	704	1.0+	0.5+	2000 03 09	704	0.7-	0.3-	2000 04 04	704	0.3+	0.6+
1999 01 16	704	0.7-	1.1-	2000 03 09	704	0.7-	0.1-	2000 04 04	704	0.5+	0.2-
1999 01 16	704	0.0	0.6-	2000 03 10	704	0.5-	0.5-	2000 04 04	704	0.6-	0.2+
1999 01 16	704	1.7+	1.0-	2000 03 10	704	0.0	0.3+	2000 04 04	704	0.2+	0.1+

1999 01 19	704	1.3-	0.1-	2000 03 10	704	0.1+	0.0	2000 04 08	704	0.1+	0.1+
1999 01 19	704	0.3+	0.3-	2000 03 10	704	(2.4+	0.1-)	2000 04 08	704	0.8+	0.3-
1999 01 19	704	1.6-	1.1+	2000 03 10	704	0.2+	0.1-	2000 04 08	704	1.5+	0.8+
1999 01 19	704	1.2-	1.3-	2000 03 12	704	0.2+	0.2+	2000 04 08	704	0.0	0.9-
1999 01 19	704	0.2+	1.0+	2000 03 12	704	0.0	1.0+	2000 04 08	704	0.6-	0.7-
2000 03 05	704	(4.5-	0.9-)	2000 03 12	704	0.3-	0.8+				
2000 03 05	704	(3.9-	0.1+)	2000 03 12	704	0.1-	0.4+				

2000 EP₃₅ = 1997 YO₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	267.46206		(2000.0)	P	Q
<i>n</i>	0.17864362	ω	240.14232	+0.23836066	+0.96138107
<i>a</i>	3.1223221	Ω	44.34822	-0.80926213	+0.27494139
<i>e</i>	0.1622757	<i>i</i>	11.35173	-0.53691619	+0.01239630
<i>P</i>	5.52	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 12 21	691	0.0	0.0	2000 03 09	704	0.1-	0.2-	2000 03 28	704	0.5+	0.8-
1997 12 21	691	0.1+	0.1+	2000 03 09	704	0.3-	0.5-	2000 03 28	704	0.1+	0.3-
1997 12 21	691	0.0	0.2+	2000 03 09	704	0.1-	0.8+	2000 04 03	704	0.6+	0.5-
1997 12 27	691	0.3+	0.2-	2000 03 12	704	0.5+	0.1+	2000 04 03	704	0.3-	1.0+
1997 12 27	691	0.3-	0.2+	2000 03 12	704	0.9+	0.5-	2000 04 03	704	0.1+	1.2+
1997 12 27	691	0.1-	0.3-	2000 03 12	704	0.6+	0.2+	2000 04 08	704	0.9-	0.2+
2000 03 08	704	1.5-	0.8+	2000 03 12	704	0.8+	0.3-	2000 04 08	704	0.3+	0.3+
2000 03 08	704	0.4-	0.4-	2000 03 26	699	1.1-	0.2-	2000 04 08	704	0.4+	0.3-
2000 03 08	704	0.2-	0.4+	2000 03 26	699	0.6+	0.2+	2000 04 08	704	0.5+	1.1-
2000 03 08	704	0.4+	0.7-	2000 03 26	699	0.5-	0.8+	2000 04 08	704	0.3+	0.7-
2000 03 08	704	0.3+	0.5-	2000 03 26	699	0.3-	0.3+				
2000 03 09	704	0.1+	0.0	2000 03 28	704	1.1-	0.5+				

2000 ER₃₅ = 1998 XE₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.98074		(2000.0)	P	Q
<i>n</i>	0.28392737	ω	209.75355	+0.88169656	+0.46497023
<i>a</i>	2.2926154	Ω	122.32424	-0.41201871	+0.84148420
<i>e</i>	0.1630833	<i>i</i>	5.43825	-0.22989510	+0.27514908
<i>P</i>	3.47	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1998 05 25	675	0.3+	0.5+	1998 12 16	704	1.2+	0.3+	2000 03 09	704	0.3-	0.6-
1998 05 25	675	0.3-	0.3-	1998 12 22	704	0.3-	0.2-	2000 03 09	704	0.7+	0.5+
1996 02 15	691	0.2-	0.3-	1998 12 22	704	0.4-	0.2+	2000 03 09	704	0.4+	0.1-
1996 02 15	691	0.2+	0.3-	1998 12 22	704	0.9-	1.9+	2000 03 09	704	0.3+	0.5+
1996 02 15	691	0.0	0.1-	1998 12 22	704	0.2+	0.2+	2000 03 29	704	0.6-	0.2+
1998 11 23	704	0.3-	0.2+	1998 12 22	704	0.1-	1.0+	2000 03 29	704	0.6-	0.2-
1998 11 23	704	0.4-	0.3+	1999 01 18	704	0.6+	0.5-	2000 03 29	704	0.7-	0.4-
1998 11 23	704	0.7-	0.8-	1999 01 18	704	0.8-	1.1+	2000 03 29	704	0.5-	0.2-
1998 11 23	704	0.4-	0.5-	1999 01 18	704	0.8-	0.1-	2000 03 29	704	0.6-	0.1-
1998 11 23	704	1.9-	0.3-	1999 01 18	704	0.3+	0.5+	2000 04 05	704	0.1+	0.6+
1998 12 15	704	0.1+	0.1+	1999 01 18	704	1.0+	1.5-	2000 04 05	704	0.3+	0.4+
1998 12 15	704	1.4+	0.4-	2000 03 08	704	0.1+	0.5+	2000 04 05	704	0.2+	0.4+
1998 12 15	704	0.3+	1.2-	2000 03 08	704	0.2-	0.2-	2000 04 05	704	0.2+	0.5+
1998 12 15	704	0.7+	0.5+	2000 03 08	704	0.8-	0.4+	2000 04 05	704	0.2-	0.4+
1998 12 16	704	0.8+	0.3-	2000 03 08	608	0.2+	1.2-	2000 04 13	704	0.4+	0.3-
1998 12 16	704	0.2+	0.5+	2000 03 08	608	0.5+	1.5-	2000 04 13	704	0.4+	1.0+
1998 12 16	704	(0.7-	2.6+)	2000 03 08	608	0.2+	1.8-	2000 04 13	704	0.2-	0.4+
1998 12 16	704	(0.9-	2.3+)	2000 03 09	704	0.1+	0.3+	2000 04 13	704	1.7+	0.7+

2000 EV₃₅ = 1992 OD₁ = 1999 CO₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	262.65526		(2000.0)	P	Q
n	0.22762461	ω	187.58575	+0.71927299	+0.67170630
a	2.6565820	Ω	128.63129	-0.62488448	+0.73708538
e	0.1929212	i	13.12303	-0.30358813	+0.07426835
P	4.33	H	13.3	G 0.15	U 4

Residuals in seconds of arc

1992 07 26	010	(0.1+ 3.4+)	1999 02 13	704	1.0+ 0.7-	2000 04 07	699	0.2+ 0.0
1992 07 26	010	(1.3- 2.3-)	1999 02 13	704	0.9+ 0.6-	2000 04 07	699	0.1+ 0.3-
1992 07 26	010	0.2- 0.0	2000 03 08	704	0.3- 0.5-	2000 04 08	704	0.4+ 0.4-
1992 07 26	010	1.0+ 0.7+	2000 03 08	704	1.0+ 0.1+	2000 04 08	704	0.2- 0.2-
1992 07 27	010	0.9- 1.0+	2000 03 08	704	0.2+ 0.5-	2000 04 08	704	0.7+ 0.1+
1999 01 28	159	0.5- 1.0+	2000 03 08	704	1.1- 0.8+	2000 04 09	699	0.4- 0.4-
1999 01 28	159	0.5- 0.2-	2000 03 09	704	0.5+ 0.7-	2000 04 09	699	0.5- 0.1+
1999 01 28	159	1.0- 0.5+	2000 03 09	704	0.1- 0.1+	2000 04 09	699	0.1+ 0.2+
1999 01 28	159	0.3- 0.8+	2000 03 09	704	0.5+ 0.3+	2000 04 09	699	0.2- 0.3+
1999 02 10	704	0.7- 0.6+	2000 04 05	704	0.2- 0.4+	2000 04 14	704	0.1+ 0.2-
1999 02 10	704	0.9+ 1.5+	2000 04 05	704	0.1+ 0.2-	2000 04 14	704	0.1- 0.2+
1999 02 10	704	0.0 0.1+	2000 04 05	704	0.2+ 0.1-	2000 04 14	704	0.5- 0.2+
1999 02 10	704	0.5+ 0.9-	2000 04 05	704	0.6+ 0.5-	2000 04 14	704	0.8- 0.2-
1999 02 10	704	0.9- 0.2-	2000 04 05	704	0.7+ 0.4+	2000 04 14	704	0.7- 0.1+
1999 02 13	704	(1.1- 3.0-)	2000 04 07	699	0.1- 0.2+			
1999 02 13	704	0.6+ 0.3+	2000 04 07	699	0.3- 0.4+			

2000 EE₃₆ = 1990 KT₃ = 1999 AM₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17652756	<i>ω</i>	346.04575	+0.25685665	-0.92634692		
<i>a</i>	3.1472243	<i>Ω</i>	88.51641	+0.91103758	+0.13694102		
<i>e</i>	0.1784201	<i>i</i>	15.99795	+0.32254486	+0.35089676		
<i>P</i>	5.58	<i>H</i>	11.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 05 26	675	0.4- 0.3-	1999 01 11	704	0.5- 1.5+	2000 03 15	704	0.1- 0.2+
1990 05 26	675	0.2+ 0.2-	1999 02 04	704	1.1- 1.3-	2000 03 15	704	0.6- 0.3+
1998 10 19	699	0.4- 0.4+	1999 02 04	704	0.6- 0.1-	2000 03 21	611	0.2- 0.4-
1998 10 19	699	0.1- 0.0	1999 02 04	704	1.8- 1.6+	2000 03 21	611	0.6- 0.0
1998 10 19	699	0.1+ 0.2+	1999 02 04	704	1.5+ 1.5-	2000 03 28	704	0.2- 0.0
1998 11 13	704	(3.1+ 0.4-)	1999 02 04	704	0.3+ 0.1-	2000 03 28	704	0.2- 0.0
1998 11 13	704	0.8- 0.3+	2000 02 03	704	0.2+ 0.7-	2000 03 28	704	0.1- 0.3+
1998 11 13	704	0.1+ 1.8-	2000 02 03	704	0.3+ 0.1+	2000 03 28	704	0.5- 0.4+
1998 11 13	704	0.8+ 0.4-	2000 02 03	704	0.1- 0.0	2000 04 02	704	0.1- 0.0
1998 11 13	704	1.2- 0.2+	2000 02 03	704	0.1+ 0.4-	2000 04 02	704	0.5+ 0.1-
1998 11 16	699	0.4+ 0.1-	2000 02 03	704	0.5- 0.0	2000 04 02	704	0.2+ 0.6-
1998 11 16	699	0.2+ 0.1-	2000 03 04	704	2.0+ 0.6+	2000 04 02	704	0.2- 0.3-
1998 11 16	699	0.2+ 0.1+	2000 03 04	704	1.8+ 0.7+	2000 04 02	704	0.2+ 0.4-
1999 01 07	699	0.1- 0.2-	2000 03 04	704	1.9+ 0.8+	2000 04 06	628	1.0- 0.4-
1999 01 07	699	0.3- 0.3-	2000 03 04	704	1.8+ 0.6+	2000 04 06	628	0.9- 0.3-
1999 01 07	699	0.2- 0.0	2000 03 10	704	0.1+ 0.1-	2000 04 06	628	0.7- 0.5-
1999 01 10	699	0.1+ 0.5-	2000 03 10	704	0.3+ 0.3-	2000 04 06	628	0.9- 0.5-
1999 01 10	699	0.1- 0.9-	2000 03 10	704	0.1+ 0.1-	2000 04 08	704	0.2- 0.3-
1999 01 10	699	0.2+ 0.1+	2000 03 10	704	0.4+ 0.1-	2000 04 08	704	0.5- 0.3-
1999 01 11	704	(0.2+ 2.0-)	2000 03 10	704	0.3+ 0.1-	2000 04 08	704	0.5- 0.2+
1999 01 11	704	1.8+ 1.1+	2000 03 15	704	0.0 0.0	2000 04 08	704	0.6- 0.3+
1999 01 11	704	(2.1+ 1.3+)	2000 03 15	704	0.1- 0.0	2000 04 08	704	1.1- 0.5+
1999 01 11	704	1.7+ 1.1+	2000 03 15	704	0.7- 0.4+			

2000 EP₃₆ = 1986 WQ₈ = 1997 RX₇ = 1998 XT₄₅Id. G. V. Williams (*MPC* 39490), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17531495	<i>ω</i>	165.98344	-0.77480231	+0.63177587		
<i>a</i>	3.1617201	<i>Ω</i>	53.22204	-0.58279635	-0.69951417		
<i>e</i>	0.1313410	<i>i</i>	1.66350	-0.24500977	-0.33397482		
<i>P</i>	5.62	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 11 30	381	0.3- 0.3+	1999 01 19	704	(3.6- 1.5-)	2000 03 11	704	0.0 0.5+
1986 11 30	381	1.5- 0.7+	2000 01 08	704	0.4+ 1.6-	2000 03 11	704	0.6+ 0.3+
1986 12 01	381	0.3- 1.7+	2000 01 08	704	0.2+ 1.7-	2000 03 11	704	0.0 1.1+
1986 12 01	381	0.7+ 0.1+	2000 01 08	704	(0.5- 2.2-)	2000 03 11	704	0.5+ 0.9+
1994 02 11	675	0.1+ 1.3-	2000 01 08	704	0.4+ 1.6-	2000 03 13	120	0.8- 1.3-

1994 02 11	675	(0.6+ 2.4-)	2000 01 08	704	0.2+ 1.6-	2000 03 14	120	0.7- 1.3-
1997 09 09	910	0.5+ 0.8+	2000 01 13	699	0.9+ 0.8+	2000 03 14	703	0.2+ 0.0
1997 09 09	910	0.4+ 0.7+	2000 01 13	699	0.4+ 0.2+	2000 03 14	703	0.1+ 0.1+
1997 09 09	910	0.5+ 0.8+	2000 01 13	699	0.0 0.4-	2000 03 14	703	0.1+ 0.1+
1997 09 12	910	0.8+ 0.4+	2000 02 11	704	1.4+ 0.6-	2000 03 14	703	0.1+ 0.1+
1997 09 12	910	0.7+ 0.4+	2000 02 11	704	1.2+ 0.6+	2000 03 22	120	0.3- 0.2-
1997 09 12	910	0.7+ 0.4+	2000 02 11	704	0.1- 0.5+	2000 03 22	120	1.5- 0.2-
1997 11 03	704	1.6- 1.1-	2000 02 27	703	0.1- 0.3+	2000 03 23	931	0.6+ 0.0
1997 11 03	704	0.8- 0.5-	2000 02 27	703	0.1- 0.3+	2000 03 23	931	0.3+ 0.8+
1997 11 03	704	0.3- 1.1+	2000 02 27	703	0.0 0.3+	2000 04 04	704	0.4+ 0.0
1997 11 03	704	0.9- 0.7+	2000 02 27	703	0.2+ 0.4+	2000 04 04	704	0.3+ 0.0
1998 12 14	704	1.0+ 0.3+	2000 02 29	704	1.0+ 0.1-	2000 04 04	704	0.0 0.0
1998 12 14	704	0.6- 0.4+	2000 02 29	704	0.2+ 0.4+	2000 04 04	704	0.6+ 0.2+
1998 12 14	704	0.6- 1.0-	2000 02 29	704	0.1- 0.5+	2000 04 04	704	0.5+ 0.4+
1998 12 14	704	(0.6+ 2.3+)	2000 02 29	704	0.2- 0.7+	2000 04 05	704	0.2+ 0.0
1998 12 14	704	(3.7- 1.7+)	2000 03 08	704	0.7- 1.0+	2000 04 05	704	0.1+ 0.1-
1998 12 17	704	0.9+ 0.0	2000 03 08	704	0.2- 1.2+	2000 04 05	704	0.1+ 0.1+
1998 12 17	704	0.6- 1.5-	2000 03 08	704	1.1- 1.1+	2000 04 05	704	0.8+ 0.7+
1998 12 17	704	0.7- 1.5-	2000 03 08	704	1.8- 1.5+	2000 04 05	704	0.2- 0.4+
1998 12 17	704	0.2+ 0.9-	2000 03 08	704	(1.0- 2.4+)	2000 04 06	704	0.1+ 0.1-
1998 12 17	704	0.5+ 0.5-	2000 03 10	704	0.3+ 0.0	2000 04 06	704	0.1- 0.1-
1999 01 16	704	1.2+ 1.1+	2000 03 10	704	0.1- 0.2+	2000 04 06	704	0.1- 0.2+
1999 01 16	704	(2.8- 0.6+)	2000 03 10	704	0.1- 0.1-	2000 04 06	704	0.1+ 0.2-
1999 01 16	704	0.2- 0.5+	2000 03 10	704	0.4+ 0.1+	2000 04 10	704	0.6+ 0.0
1999 01 16	704	(4.9- 0.7+)	2000 03 10	704	0.3- 1.2+	2000 04 10	704	0.4+ 0.0
1999 01 16	704	(6.6- 1.5+)	2000 03 10	120	0.8- 1.0-	2000 04 10	704	0.1+ 0.2-
1999 01 19	704	0.4- 1.0+	2000 03 10	120	1.2- 1.0-	2000 04 10	704	0.2+ 0.2+
1999 01 19	704	0.6- 0.8+	2000 03 11	120	1.7- 1.0-	2000 04 10	704	0.7+ 0.0
1999 01 19	704	1.2- 1.6-	2000 03 11	704	0.5+ 0.4+			

2000 EE₃₇ = 1997 SU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21906830	<i>ω</i>	330.44557	+0.81384639	+0.58106049		
<i>a</i>	2.7253128	<i>Ω</i>	354.02256	-0.52373765	+0.72995258		
<i>e</i>	0.0774310	<i>i</i>	2.62606	-0.25170008	+0.35991380		
<i>P</i>	4.50	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 08 11	691	0.8- 1.1+	2000 03 08	704	0.6+ 0.1-	2000 04 05	704	0.1- 0.1+
1997 08 11	691	0.5- 1.1+	2000 03 10	704	0.1- 0.2+	2000 04 05	704	0.1- 0.6+
1997 08 11	691	0.6- 0.6+	2000 03 10	704	0.2+ 0.4+	2000 04 06	704	0.3+ 0.3+
1997 09 23	691	0.2- 0.9+	2000 03 10	704	0.2- 0.4+	2000 04 06	704	0.4- 0.1+
1997 09 23	691	0.2- 1.1+	2000 03 10	704	0.4+ 0.2-	2000 04 06	704	0.0 0.1+
1997 09 23	691	0.1- 0.9+	2000 03 10	704	0.3+ 0.2-	2000 04 07	704	1.0+ 0.2-
1997 09 29	691	0.4- 0.9+	2000 03 11	704	0.3- 0.9+	2000 04 07	704	0.2- 0.8+
1997 09 29	691	0.4- 0.7+	2000 03 11	704	0.2- 0.6+	2000 04 07	704	0.5+ 0.3+
1997 09 29	691	0.7- 0.9+	2000 03 11	704	0.3+ 0.4+	2000 04 07	704	0.8+ 0.3-
1998 12 17	704	0.9+ 1.6+	2000 03 11	704	0.3+ 0.2+	2000 04 07	704	0.3+ 0.6-
1998 12 17	704	1.8+ 0.5+	2000 03 14	703	0.2- 0.2+	2000 04 08	704	0.3- 0.3+
1998 12 17	704	1.6- 0.3-	2000 03 14	703	0.3+ 0.5+	2000 04 08	704	0.5- 1.0+
1998 12 17	704	0.7- 0.0	2000 03 14	703	0.1+ 0.1-	2000 04 08	704	0.8+ 0.5-
1998 12 17	704	(0.0 2.2+)	2000 03 14	703	0.8- 0.3-	2000 04 08	704	0.6+ 1.0+
1999 01 16	704	0.4+ 0.0	2000 04 04	704	0.4- 0.0	2000 04 08	704	0.2- 1.0+
1999 01 16	704	1.3- 1.1+	2000 04 04	704	0.0 0.1+	2000 04 10	691	0.2- 0.2+
1999 01 16	704	(1.5+ 2.1-)	2000 04 04	704	0.4+ 0.7+	2000 04 10	691	0.1- 0.3+
1999 01 16	704	0.0 0.9-	2000 04 04	704	0.1+ 0.7+	2000 04 10	691	0.0 0.2+
1999 01 16	704	0.5+ 0.4+	2000 04 04	704	0.9+ 0.2+	2000 04 13	691	0.5- 0.3-
2000 03 08	704	1.2+ 0.2-	2000 04 05	704	0.1+ 0.2+	2000 04 13	691	0.5- 0.2-
2000 03 08	704	0.6+ 0.9-	2000 04 05	704	0.2- 0.0	2000 04 13	691	0.5- 0.0
2000 03 08	704	0.4+ 0.4-	2000 04 05	704	0.1- 0.5+			

2000 APR. 18

M.P.C. 40139

2000 EG₃₇ = 1997 VW₂ = 1998 XO₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17197113	ω	116.70815	−0.20843165	−0.97782177		
<i>a</i>	3.2025729	Ω	345.27891	+0.86620294	−0.17481829		
<i>e</i>	0.0827437	<i>i</i>	4.63043	+0.45414614	−0.11533929		
<i>P</i>	5.73	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1997 10 28	704	0.6+	0.0	2000 02 08	704	1.2+	1.3+
1997 10 28	704	(3.5+	1.7−)	2000 02 08	704	0.0	0.9−
1997 10 28	704	(1.9+	3.5−)	2000 02 08	704	0.0	0.2−
1997 10 28	704	(0.3+	2.3−)	2000 02 08	704	0.3−	1.5−
1997 10 30	704	0.7+	1.2−	2000 03 08	704	0.3+	0.8+
1997 10 30	704	1.1−	1.5+	2000 03 08	704	1.1−	1.1−
1997 10 30	704	1.3+	0.5−	2000 03 08	704	0.3+	0.2+
1997 10 30	704	0.3−	0.9+	2000 03 08	704	0.3−	0.2+
1997 10 30	704	1.6−	0.0	2000 03 08	704	0.1+	0.4−
1997 10 30	566	0.2+	0.7+	2000 03 10	704	0.5+	0.2−
1997 10 30	566	0.5−	0.5+	2000 03 10	704	0.2+	0.3−
1997 10 30	566	0.2−	0.5+	2000 03 10	704	0.0	0.0
1997 11 04	557	0.2−	0.6−	2000 03 10	704	0.3+	0.2−
1997 11 04	557	0.2−	0.3−	2000 03 10	704	0.1+	0.1+
1997 11 05	557	0.3+	0.1−	2000 03 11	704	0.1+	0.0
1997 11 05	557	0.2−	0.4+	2000 03 11	704	0.0	0.2−
1998 12 14	704	0.3−	0.6+	2000 03 11	704	0.1+	0.0
1998 12 14	704	0.2−	0.1−	2000 03 11	704	0.5−	0.2−
1998 12 14	704	0.5+	1.3+	2000 03 11	704	0.2+	0.0
1998 12 14	704	0.4−	0.6+	2000 03 14	703	0.4−	0.3−
1998 12 14	704	0.8−	0.5+	2000 03 14	703	0.4−	0.3−
1998 12 17	704	0.3−	0.0	2000 03 14	703	0.5−	0.2−
1998 12 17	704	1.0+	0.6−	2000 03 14	703	0.9−	0.6−
1998 12 17	704	0.2+	0.7−	2000 03 26	699	0.4−	0.2−
1998 12 17	704	0.6+	0.4+	2000 03 26	699	0.4−	0.0
1998 12 17	704	1.0+	1.0−	2000 03 26	699	0.8−	0.1−
1999 01 16	704	(0.1−	2.2−)	2000 03 26	699	0.5−	0.2+
1999 01 16	704	0.5−	1.2−	2000 04 04	704	(1.1+	2.4+)
1999 01 16	704	0.5−	0.0	2000 04 04	704	1.4+	1.3+
1999 01 16	704	0.2−	0.3+	2000 04 04	704	0.0	0.3+
1999 01 16	704	(3.9−	2.8+)	2000 04 04	704	0.5−	0.2+

2000 EL₃₇ = 1996 DA₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26119239	ω	250.56041	−0.92771931	+0.37217252		
<i>a</i>	2.4237940	Ω	311.27798	−0.32654533	−0.84643529		
<i>e</i>	0.1414126	<i>i</i>	2.18970	−0.18084534	−0.38083449		
<i>P</i>	3.77	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1996 02 16	010	0.1−	0.7+	2000 03 10	704	0.3+	0.2+
1996 02 16	010	0.4−	0.6+	2000 03 10	704	0.2+	0.1−
1996 02 16	010	0.1−	1.3+	2000 03 10	704	0.0	0.1+
1996 02 17	010	(0.8+	2.9+)	2000 03 11	704	0.7+	0.2−
1996 02 17	010	(1.2+	3.2+)	2000 03 11	704	0.4+	0.1+
1996 02 17	010	(2.3+	2.9+)	2000 03 11	704	0.0	0.1+
1996 02 20	566	0.1+	1.1−	2000 03 11	704	0.1−	0.4+
1996 02 20	566	0.0	1.0−	2000 03 11	704	0.1+	0.4+
1996 02 20	566	0.2+	1.2−	2000 03 26	699	0.1+	0.3−
2000 03 08	704	1.0+	0.8+	2000 03 26	699	0.2−	0.4−
2000 03 08	704	0.2−	0.5−	2000 03 26	699	0.3−	0.1+
2000 03 08	704	0.4−	1.1−	2000 03 26	699	0.3−	0.2−
2000 03 08	704	1.0−	0.3+	2000 04 04	704	0.1−	0.5+
2000 03 08	704	0.1−	0.5+	2000 04 04	704	0.2+	0.5+
2000 03 10	704	0.5+	0.3+	2000 04 04	704	0.5+	0.5+
2000 03 10	704	0.5+	0.6+	2000 04 04	704	0.3+	0.9+

2000 ES₃₇ = 2039 T-1 = 1993 XD₃

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20408939	ω	88.34682	+0.44749271	+0.89421180		
<i>a</i>	2.8570802	Ω	208.24528	−0.82996348	+0.41042264		
<i>e</i>	0.0383883	<i>i</i>	1.40956	−0.33303287	+0.17871349		
<i>P</i>	4.83	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1971 03 24	675	0.1+	0.5−	2000 02 25	691	0.6−	0.5−
1971 03 25	675	0.7−	1.4−	2000 02 25	691	0.8−	0.5−
1971 03 25	675	0.9−	0.6+	2000 02 25	691	0.7−	0.4−
1971 03 26	675	0.1−	0.0	2000 03 08	704	1.3+	0.5+
1971 03 27	675	0.5+	1.3−	2000 03 08	704	0.4−	1.2−
1993 12 14	381(55.0+	0.9+)		2000 03 08	704	0.9+	0.9+
1993 12 14	381(54.8+	0.9+)		2000 03 08	704	1.3−	0.4−
1993 12 14	381(54.1+	1.4+)		2000 03 10	704	0.1+	0.5+
1993 12 15	381(55.1+	1.2+)		2000 03 10	704	0.0	0.7+
1997 10 30	704	1.4−	0.2+	2000 03 10	704	0.1−	0.3+
1997 10 30	704	0.2+	1.2−	2000 03 10	704	1.3+	0.2−
1997 10 30	704	1.9+	0.6+	2000 03 10	704	0.2−	0.4+
1997 10 30	704	0.9−	0.8+	2000 03 11	704	0.4−	0.4+
1997 10 30	704	(5.6−	0.2−)	2000 03 11	704	0.4+	0.2+
1998 12 22	704(28.8+	5.1+)		2000 03 11	704	0.2−	0.1+
1998 12 22	704(26.0+	1.2+)		2000 03 11	704	0.2−	0.6+
1998 12 22	704(20.4+	0.6−)		2000 03 11	704	0.1+	0.1+
1998 12 22	704(17.7+	1.4−)		2000 03 14	703	0.5+	0.9+

2000 EV₃₇ = 1997 UQ₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.15869180	ω	219.59103	+0.82193454	−0.56943770		
<i>a</i>	3.3788304	Ω	175.06838	+0.55305767	+0.79250532		
<i>e</i>	0.1725167	<i>i</i>	8.57563	+0.13620142	+0.21834840		
<i>P</i>	6.21	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1995 07 02	691	0.0	0.2−	2000 03 08	704	1.0+	0.3−
1995 07 02	691	0.3−	0.1+	2000 03 08	704	0.4+	1.5−
1995 07 02	691	0.3+	0.4+	2000 03 10	704	0.5+	0.8−
1997 10 29	566	0.2+	0.6+	2000 03 10	704	0.4+	0.0
1997 10 29	566	0.1+	0.4+	2000 03 10	704	0.4+	0.3+
1997 10 29	566	0.3+	0.5+	2000 03 10	704	0.6+	0.4+
1997 10 30	566	0.2+	0.4+	2000 03 10	704	0.6+	1.2+
1997 10 30	566	0.2+	0.3+	2000 03 11	704	0.2−	0.3−
1997 10 30	566	0.0	0.5+	2000 03 11	704	0.5+	0.3−
1997 11 03	704	0.2+	0.2+	2000 03 11	704	0.2+	0.3−
1997 11 03	704	0.0	0.7+	2000 03 11	704	0.4+	0.5−
1997 11 03	704	1.3−	1.4+	2000 03 11	704	0.4−	0.4−
1997 11 03	704	1.1−	0.6−	2000 03 14	703	0.4−	0.2+
1999 01 18	704	0.4−	0.2−	2000 03 14	703	0.1+	0.1−
1999 01 18	704	1.0−	0.4−	2000 03 14	703	0.4+	0.6+
1999 01 18	704	0.5+	0.7−	2000 03 14	703	0.1−	0.4+
1999 01 18	704	1.0+	0.7−	2000 03 26	699	0.2−	0.3+
1999 01 18	704	(5.7−	2.8−)	2000 03 26	699	0.2−	0.1+
2000 03 08	704	(2.1+	0.0)	2000 03 26	699	0.6+	0.1+

2000 EY₃₇ = 1987 DL₁ = 1998 XL₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	164.86386	(2000.0)		P		Q	
<i>n</i>	0.24005983	ω	1.61755	+0.98934664	−0.14515462		
<i>a</i>	2.5640297	Ω	6.75909	+0.13248407	+0.86610657		
<i>e</i>	0.1449585	<i>i</i>	5.41505	+0.06034232	+0.47831951		
<i>P</i>	4.11	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc (or two decimals in units of degrees)

1987 02 22	675(0.03+ 0.01−)	2000 03 08	704	0.9+	0.3−	2000 03 30	703	0.4−	0.1+
1987 02 22	675(0.03+ 0.01−)	2000 03 08	704	0.1−	0.3+	2000 03 30	703	0.6+	0.8+
1998 12 14	704 0.8+ 0.4+	2000 03 08	704	0.6−	0.2−	2000 03 30	703	0.5−	0.1−
1998 12 14	704 1.2+ 0.3+	2000 03 08	704	0.3−	0.7−	2000 04 04	704	0.2−	0.2−
1998 12 14	704 0.4+ 0.4−	2000 03 08	704	1.1−	1.1−	2000 04 04	704	1.0−	0.1+
1998 12 14	704 0.2+ 0.4+	2000 03 10	704	0.2−	0.4+	2000 04 04	704	0.4+	0.5+
1998 12 17	704 0.2− 0.2−	2000 03 10	704	0.2−	0.4+	2000 04 04	704	0.2−	0.6+
1998 12 17	704 1.3− 0.5−	2000 03 10	704	0.2−	0.0	2000 04 04	704	0.4+	0.1−
1998 12 17	704 1.0− 0.0	2000 03 10	704	0.3−	0.1+	2000 04 05	704	0.1−	0.2−
1998 12 17	704 (1.1− 2.5−)	2000 03 10	704	0.3−	0.1−	2000 04 05	704	0.1−	0.0
2000 02 11	704 0.9+ 0.3−	2000 03 11	704	0.2+	0.5+	2000 04 05	704	0.2+	0.4+
2000 02 11	704 0.6+ 0.5+	2000 03 11	704	0.0	0.3+	2000 04 05	704	0.0	0.3+
2000 02 11	704 1.2− 0.7+	2000 03 11	704	0.0	0.0	2000 04 05	704	0.5+	0.4+
2000 02 27	703 0.8+ 0.5−	2000 03 11	704	0.1−	0.0	2000 04 06	704	0.2+	0.6−
2000 02 27	703 1.1− 1.3−	2000 03 11	704	0.9+	0.2−	2000 04 06	704	0.4+	0.9−
2000 02 27	703 0.9+ 0.2−	2000 03 14	703	0.9+	0.3−	2000 04 06	704	0.3+	0.1−
2000 02 27	703 0.4− 0.1+	2000 03 14	703	0.6−	0.6+	2000 04 06	704	0.0	1.5−
2000 02 29	704 1.9+ 1.9+	2000 03 14	703	0.4−	0.5+	2000 04 10	704	0.3−	0.2−
2000 02 29	704 0.5− 0.5−	2000 03 14	703	1.0+	0.6+	2000 04 10	704	0.2+	0.3+
2000 02 29	704 1.3− 0.7−	2000 03 30	703	0.0	0.2−	2000 04 10	704	0.3−	0.2+

2000 EB₃₈ = 1988 PW₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	240.60927	(2000.0)		P		Q	
<i>n</i>	0.22495770	ω	141.43317	+0.70338882	+0.71039151		
<i>a</i>	2.6775370	Ω	173.14145	−0.69208196	+0.69224100		
<i>e</i>	0.1970222	<i>i</i>	11.71642	−0.16207012	+0.12706806		
<i>P</i>	4.38	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1988 08 12	511 0.1+ 0.4−	2000 03 10	704	0.5+	0.1−	2000 04 04	704	0.9+	0.4−
1988 08 12	511 0.9− 0.4+	2000 03 10	704	0.3+	0.1+	2000 04 04	704	0.7+	1.2+
1988 08 14	511 0.4+ 0.6+	2000 03 10	704	0.2+	0.5−	2000 04 04	704	0.4+	0.3−
1988 08 15	511 0.1+ 1.5+	2000 03 10	704	0.1−	0.3+	2000 04 04	704	0.2+	0.8+
1997 09 26	327 0.2− 1.0+	2000 03 11	704	0.3−	0.1−	2000 04 07	699	0.9−	0.1+
1997 09 26	327 0.3− 1.1+	2000 03 11	704	0.1+	0.1+	2000 04 07	699	1.4−	0.0
1997 09 26	327 0.3− 1.1+	2000 03 11	704	0.6+	0.4+	2000 04 07	699	0.8−	0.0
1997 09 26	327 0.1− 1.0+	2000 03 11	704	0.6+	0.1+	2000 04 07	699	0.5−	0.2−
2000 02 27	703 1.2− 0.3+	2000 03 11	704	0.3+	0.5+	2000 04 08	704	0.6−	0.5−
2000 02 27	703 0.2+ 0.0	2000 03 29	704	1.5+ 0.0	2000 04 08	704	0.0	0.5−	
2000 02 27	703 0.2− 0.2+	2000 03 29	704	0.9+ 0.2+	2000 04 08	704	0.9−	0.2+	
2000 02 27	703 0.3− 1.4+	2000 03 29	704	1.7+ 1.4+	2000 04 08	704	0.3−	0.2−	
2000 03 08	704 0.1+ 0.9−	2000 03 29	704	1.5+ 1.0+	2000 04 08	704	0.6−	0.1−	
2000 03 08	704 0.7+ 0.4+	2000 03 30	703	0.8− 0.7+	2000 04 10	704	0.1−	0.4+	
2000 03 08	704 0.1+ 0.8+	2000 03 30	703	0.8− 0.5−	2000 04 10	704	0.3+	0.9−	
2000 03 08	704 0.6− 0.6+	2000 03 30	703	0.2− 0.0	2000 04 10	704	0.3+	0.5−	
2000 03 08	704 0.0 0.0	2000 03 30	703	0.3+ 0.1+	2000 04 10	704	1.0−	1.0+	
2000 03 10	704 0.1+ 0.3+	2000 04 04	704	0.2+ 0.1−					

2000 EN₃₈ = 1992 SC₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	252.07230	(2000.0)		P		Q	
<i>n</i>	0.21223291	ω	303.96872	+0.51298351	+0.85836759		
<i>a</i>	2.7835193	Ω	356.86709	−0.73707107	+0.43611482		
<i>e</i>	0.1465848	<i>i</i>	7.65501	−0.43997063	+0.27020168		
<i>P</i>	4.64	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 09 24	691 0.2− 0.0	2000 03 11	704	0.7+	0.6+	2000 04 06	704	0.4+	0.3+
1992 09 24	691 0.2+ 0.0	2000 03 11	704	0.3−	0.1+	2000 04 06	704	0.0	0.0
1992 09 24	691 0.2− 0.0	2000 03 11	704	0.1−	0.5+	2000 04 06	704	0.2−	0.7−
1992 09 25	691 0.3+ 0.1−	2000 03 11	704	0.3+	0.1+	2000 04 06	704	0.2−	0.1+
1992 09 25	691 0.1− 0.1+	2000 03 11	704	0.3−	0.1−	2000 04 06	704	1.5−	1.8−
1992 09 25	691 0.1− 0.1+	2000 03 14	703	0.5+ 0.0	2000 04 07	699	0.4+	0.8−	
2000 02 26	691 0.4− 0.8−	2000 03 14	703	0.5+ 0.1−	2000 04 07	699	0.2−	0.2+	
2000 02 26	691 0.3+ 0.3+	2000 03 14	703	0.2− 0.6+	2000 04 07	699	1.0−	0.5−	
2000 02 26	691 0.2− 0.8−	2000 03 14	703	0.1− 0.4−	2000 04 07	699	0.1+	0.4−	
2000 03 08	704 0.1+ 1.0−	2000 04 04	704	0.5+ 0.1−	2000 04 08	704	0.5+ 1.3+		
2000 03 08	704 0.0 0.1−	2000 04 04	704	0.5+ 0.4−	2000 04 08	704	0.3+ 0.8+		
2000 03 08	704 0.2− 1.2+	2000 04 04	704	1.2− 0.8+	2000 04 08	704	1.4+ 0.6+		
2000 03 08	704 0.6+ 0.3+	2000 04 04	704	0.5− 0.1+	2000 04 08	704	1.2− 0.4+		
2000 03 08	704 1.1+ 0.0	2000 04 04	704	0.4+ 0.5−	2000 04 08	704	0.2+ 0.1+		
2000 03 10	704 0.1− 0.5+	2000 04 05	704	0.1− 0.2−	2000 04 08	704	0.1+ 0.3−		
2000 03 10	704 0.1− 0.2+	2000 04 05	704	0.3− 0.5+	2000 04 08	704	0.7+ 0.8−		
2000 03 10	704 0.2− 0.0	2000 04 05	704	0.3− 0.1+	2000 04 08	704	0.6+ 0.3+		
2000 03 10	704 0.5− 0.2−	2000 04 05	704	0.3− 0.1+	2000 04 08	704	0.3+ 0.4+		
2000 03 10	704 1.0− 0.2−	2000 04 05	704	0.1+ 0.2−					

2000 ER₃₈ = 1997 SC₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	317.00914	(2000.0)		P		Q	
<i>n</i>	0.17914939	ω	304.91972	−0.71041684	+0.70345471		
<i>a</i>	3.1164428	Ω	279.79588	−0.63840517	−0.65694374		
<i>e</i>	0.0404597	<i>i</i>	1.24630	−0.29622078	−0.27124970		
<i>P</i>	5.50	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 13	691 0.4− 0.0	1998 12 17	704	0.8−	1.0+	2000 04 04	704	0.3+	0.5+
1991 09 13	691 0.3− 0.2−	1998 12 17	704	0.0	0.1−	2000 04 04	704	0.1+	0.0
1991 09 13	691 0.3+ 0.2+	1998 12 17	704	0.1−	1.3−	2000 04 04	704	0.4+	0.5+
1996 08 16	566 0.2+ 0.1+	2000 03 08	704	0.4+ 0.3+	2000 04 04	704	0.8+ 0.4+		
1996 08 16	566 0.2− 0.3−	2000 03 08	704	0.4− 0.5+	2000 04 05	704	0.1+ 0.2−		
1996 08 16	566 0.7+ 0.7+	2000 03 08	704	0.2+ 0.9+	2000 04 05	704	0.0 0.0		
1997 09 29	691 0.3− 0.3+	2000 03 08	704	0.6+ 0.9+	2000 04 05	704	0.1+ 0.0		
1997 09 29	691 0.3− 0.1+	2000 03 08	704	0.3+ 1.6+	2000 04 05	704	0.2− 0.3+		
1997 09 29	691 0.2− 0.2+	2000 03 10	704	0.1+ 0.1+	2000 04 05	704	0.0 0.2+		
1997 10 03	691 0.3+ 0.1−	2000 03 10	704	0.7− 0.1+	2000 04 06	704	0.1− 0.6−		
1997 10 03	691 0.6+ 0.1−	2000 03 10	704	0.2− 0.7−	2000 04 06	704	0.1+ 0.1+		
1997 10 03	691 0.2+ 1.1+	2000 03 10	704	0.8+ 0.4−	2000 04 06	704	0.2− 0.2+		
1997 10 30	704 1.1− 0.4−	2000 03 10	704	1.3− 0.3−	2000 04 06	704	1.0− 0.6+		
1997 10 30	704 0.6+ 0.2−	2000 03 11	704	0.1− 0.3−	2000 04 06	704	0.1+ 0.4+		
1997 10 30	704 0.5− 0.1+	2000 03 11	704	0.4+ 0.5−	2000 04 07	704	0.2− 0.3−		
1997 10 30	704 1.0− 0.3+	2000 03 11	704	0.3+ 0.5−	2000 04 07	704	0.5+ 0.1+		
1997 10 30	704 0.5− 1.6+	2000 03 11	704	0.0 0.4−	2000 04 07	704	0.1+ 0.3+		
1998 12 17	704 0.4+ 0.7−	2000 03 11	704	0.0 0.3−	2000 04 07	704	0.2− 0.5+		
1998 12 17	704 1.5+ 0.2−	2000 04 04	704	0.1− 0.0					

2000 APR. 18

M.P.C. 40141

2000 ES₃₈ = 1998 XY₇₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	341.08758	(2000.0)	P		Q	
<i>n</i>	0.21961356	ω	4.87894	−0.95522248	+0.29562903	
<i>a</i>	2.7208000	Ω	192.33780	−0.27339623	−0.89784862	
<i>e</i>	0.0320779	<i>i</i>	3.32387	−0.11315703	−0.32629944	
<i>P</i>	4.49	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 09 20	327	0.5−	0.8+	2000 03 08	704	0.2−	0.6+	2000 04 05	704	0.1+	0.3−
1997 09 20	327	0.0	0.9+	2000 03 08	704	0.6+	0.5+	2000 04 05	704	0.1+	0.0
1997 09 20	327	0.3−	0.6+	2000 03 08	691	0.5−	0.5−	2000 04 05	704	0.1−	0.1+
1998 12 15	704	0.8−	1.4−	2000 03 08	704	0.4+	0.9+	2000 04 05	704	0.1+	0.2+
1998 12 15	704	0.1+	0.0	2000 03 10	704	0.1+	0.5−	2000 04 05	704	0.0	0.5+
1998 12 15	704	1.6+	1.5+	2000 03 10	704	0.0	0.3−	2000 04 06	704	0.2−	0.1−
1998 12 15	704	0.5−	0.7+	2000 03 10	704	0.3+	0.4−	2000 04 06	704	0.2+	0.0
1998 12 15	704	0.4+	0.0	2000 03 11	704	1.0+	0.4−	2000 04 06	704	0.4−	0.2+
1998 12 16	704	0.4−	0.2−	2000 03 11	704	0.3+	0.4+	2000 04 06	704	0.2−	0.3+
1998 12 16	704	1.0−	0.1−	2000 03 11	704	0.5−	0.3−	2000 04 06	608	0.4−	0.5−
1998 12 16	704	0.2+	0.5+	2000 03 11	704	0.0	0.3+	2000 04 06	608	0.4−	1.1−
1998 12 16	704	(1.4+ 2.9+)		2000 03 11	704	0.4+	0.7+	2000 04 06	608	0.9−	0.8−
1998 12 22	704	0.1+	0.3+	2000 03 26	699	0.5−	0.2+	2000 04 07	699	0.3−	0.2−
1998 12 22	704	(2.6− 2.1+)		2000 03 26	699	0.1+	0.0	2000 04 07	699	0.4−	0.0
1998 12 22	704	0.1−	0.9+	2000 03 26	699	0.5−	0.2+	2000 04 07	699	0.1+	0.5+
1998 12 22	704	(3.0− 2.7−)		2000 03 26	699	0.1+	0.3+	2000 04 07	699	0.1+	0.3+
1998 12 22	704	0.3+	1.6−	2000 04 04	704	0.3−	0.2−	2000 04 08	704	0.8+	0.3−
2000 03 08	704	0.0	0.5+	2000 04 04	704	0.4+	0.2+	2000 04 08	704	0.7+	0.4+
2000 03 08	691	0.3−	0.6−	2000 04 04	704	0.0	0.2+	2000 04 08	704	0.9+	1.3−
2000 03 08	704	0.3+	1.0+	2000 04 04	704	0.0	0.2+	2000 04 08	704	0.4+	0.5+
2000 03 08	691	0.5−	0.3−	2000 04 04	704	0.4−	0.5+	2000 04 08	704	0.2+	0.9+

2000 EU₃₈ = 1998 SY₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	69.62129	(2000.0)	P		Q	
<i>n</i>	0.26622605	ω	120.90329	+0.08498137	−0.99623302	
<i>a</i>	2.3931450	Ω	324.20918	+0.90379428	+0.08436562	
<i>e</i>	0.1878609	<i>i</i>	1.69130	+0.41944495	+0.02005526	
<i>P</i>	3.70	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 08 26	691	0.2+	1.0+	2000 03 08	704	0.1+	0.9+	2000 04 05	704	0.4+	0.4−
1998 08 26	691	0.0	0.6+	2000 03 08	704	0.2+	0.6+	2000 04 05	704	0.0	0.1+
1998 08 26	691	0.1+	0.5+	2000 03 08	704	0.5−	0.1−	2000 04 05	704	0.2+	0.7−
1998 09 15	691	0.1−	0.0	2000 03 10	704	0.5+	0.8+	2000 04 05	704	0.7+	0.1+
1998 09 15	691	0.6−	0.2+	2000 03 10	704	0.1+	0.6+	2000 04 05	704	0.4+	0.8−
1998 09 15	691	0.4−	0.2−	2000 03 10	704	0.2+	0.3+	2000 04 06	704	0.0	0.2−
1998 09 20	691	0.2+	0.0	2000 03 10	704	0.1−	0.3+	2000 04 06	704	0.3+	0.2−
1998 09 20	691	0.2+	0.1+	2000 03 10	704	0.4+	0.2−	2000 04 06	704	0.1−	0.8−
1998 09 21	691	0.4−	0.5+	2000 03 11	704	0.1−	0.3+	2000 04 06	704	0.7−	0.0
1998 09 21	691	0.5−	0.3+	2000 03 11	704	0.3−	1.2+	2000 04 07	699	0.7−	1.3−
1998 09 21	691	0.1−	0.2+	2000 03 11	704	0.8−	0.5+	2000 04 07	699	0.3−	0.5−
2000 03 08	704	0.2+	0.6+	2000 03 11	704	0.5+	0.4+	2000 04 07	699	1.1−	0.1+
2000 03 08	704	0.0	0.2+	2000 03 11	704	1.4+	1.7+	2000 04 07	699	0.5+	0.5−

2000 EY₃₈ = 1998 XM₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.43328	(2000.0)	P		Q	
<i>n</i>	0.23103415	ω	276.71253	−0.02724831	+0.99949427	
<i>a</i>	2.6303806	Ω	351.67308	−0.86660438	−0.03179317	
<i>e</i>	0.1693826	<i>i</i>	6.49965	−0.49825133	+0.00063738	
<i>P</i>	4.27	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1996 05 22	566	0.4−	1.1−	1999 01 16	704	(4.0−	0.7−)	2000 03 26	699	0.3−	0.2+
1996 05 22	566	0.5−	1.0−	2000 01 11	699	0.6−	0.5+	2000 03 26	699	0.2−	0.2+

1996 05 22	566	0.5−	1.0−	2000 01 11	699	0.0	1.0−	2000 04 04	704	0.3+	0.1+
1997 10 28	704	(2.5+ 2.8−)		2000 01 11	699	1.3−	1.2+	2000 04 04	704	0.3+	0.4+
1997 10 28	704	(3.9+ 0.7−)		2000 03 05	608	0.2−	1.0−	2000 04 04	704	0.6+	0.6+
1997 10 28	704	(3.6+ 2.1−)		2000 03 05	608	0.9−	0.9−	2000 04 04	704	0.3+	0.4+
1997 10 28	704	(2.2+ 1.8−)		2000 03 05	608	0.7−	1.2−	2000 04 04	704	1.5+	1.0+
1997 10 30	704	0.8−	0.5+	2000 03 08	704	0.5+	0.7+	2000 04 07	699	0.3−	0.0
1997 10 30	704	0.5−	1.5+	2000 03 08	704	0.7+	0.2+	2000 04 07	699	0.1+	0.4+
1997 10 30	704	0.3−	0.7+	2000 03 08	704	0.3+	0.4−	2000 04 07	699	0.0	0.1+
1997 10 30	704	0.0	0.3+	2000 03 08	704	0.7+	0.2+	2000 04 07	699	0.4+	0.1+
1997 10 30	704	1.0−	1.2+	2000 03 08	704	0.1+	0.1+	2000 04 08	704	0.3+	0.1−
1998 12 14	704	0.5−	0.2−	2000 03 10	704	0.1+	0.2+	2000 04 08	704	0.4+	0.4+
1998 12 14	704	0.4+	0.1+	2000 03 10	704	0.1−	0.2+	2000 04 08	704	0.5+	0.0
1998 12 14	704	1.3+	1.8−	2000 03 10	704	0.1−	0.3+	2000 04 08	704	0.2+	0.5+
1998 12 14	704	(2.4+ 0.9+)		2000 03 10	704	0.1+	0.2+	2000 04 08	704	0.1−	0.1−
1998 12 14	704	1.5−	0.7−	2000 03 10	704	0.3−	0.4+	2000 04 10	704	0.3−	0.5+
1998 12 17	704	1.0−	0.7+	2000 03 11	704	0.4+	0.2+	2000 04 10	704	0.4−	0.6+
1998 12 17	704	0.1+	0.8−	2000 03 11	704	0.1+	0.5+	2000 04 10	704	0.6+	0.5+
1998 12 17	704	1.5+	0.6+	2000 03 11	704	0.1+	0.6+	2000 04 12	608	0.2−	0.6−
1999 01 16	704	0.7−	1.2−	2000 03 11	704	0.4+	0.7+	2000 04 12	608	0.0	0.8−
1999 01 16	704	0.8+	0.5−	2000 03 11	704	0.9+	0.9+	2000 04 12	608	0.1−	0.9−
1999 01 16	704	1.3−	1.3−	2000 03 26	699	0.3−	0.1+				
1999 01 16	704	0.8+	1.1+	2000 03 26	699	0.5−	0.4+				

2000 EG₃₉ = 1991 RM₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	89.32959	(2000.0)	P		Q	
<i>n</i>	0.17170033	ω	262.81304	+0.13721645	−0.99053197	
<i>a</i>	3.2059393	Ω	179.25892	+0.98785388	+0.13652708	
<i>e</i>	0.0730837	<i>i</i>	19.18570	+0.07291340	+0.01437977	
<i>P</i>	5.74	<i>H</i>	12.2	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1991 09 13	675	0.2−	1.9−	2000 02 26	691	0.7−	0.6−	2000 04 04	704	0.2−	0.2+
1991 09 13	675	(0.5+ 2.6−)		2000 02 26	691	0.7−	0.4−	2000 04 04	704	0.0	0.5+
1991 09 14	675	0.2−	1.1+	2000 03 08	704	0.1−	0.2+	2000 04 04	704	0.2−	0.1−
1991 09 14	675	(3.5+ 1.3+)		2000 03 08	704	0.4−	0.4−	2000 04 05	704	0.3+	0.4+
1991 09 16	675	0.7+	1.1−	2000 03 08	704	0.3−	0.1−	2000 04 05	704	0.1+	0.6+
1991 09 16	675	0.1−	1.6−	2000 03 08	704	0.4−	0.0	2000 04 05	704	0.4+	0.4+
1997 10 28	566	0.5−	0.1+	2000 03 10	704	0.2+	0.2−	2000 04 05	704	0.2+	0.2+
1997 10 28	566	0.1+	0.5+	2000 03 10	704	0.1+	0.3−	2000 04 05	704	0.4+	0.3+
1997 10 28	566	0.3+	0.2+	2000 03 10	704	0.3+	0.1−	2000 04 07	699	0.1+	0.0
1999 01 22	704	0.8−	0.6−	2000 03 10	704	0.2+	0.4−	2000 04 07	699	0.3+	0.1−
1999 01 22	704	0.3−	0.7−	2000 03 10	704	0.4+	0.2+	2000 04 07	699	0.1+	0.1+
1999 01 22	704	0.2+	0.3−	2000 03 11	704	0.1+	0.0	2000 04 07	699	0.4+	0.0
1999 01 22	704	1.0+	0.5−	2000 03 11	704	0.1−	0.1−	2000 04 07	608	1.1+	1.1+
1999 01 22	704	0.1−	1.5+	2000 03 11	704	0.0	0.0	2000 04 07	608	0.1−	0.4+
2000 01 11	699	0.1+	0.6+	2000 03 11	704	0.1−	0.1−	2000 04 07	608	0.8+	0.9−
2000 01 11	699	1.3+	0.5+	2000 03 11	704	0.4+	0.4+	2000 04 08	704	0.4−	0.1−
2000 01 11	699	1.0+	0.5+	2000 03 26	699	0.7−	0.1+	2000 04 08	704	0.0	0.1−
2000 02 08	704	0.1−	0.4−	2000 03 26	699	0.7−	0.1+	2000 04 08	704	0.1−	0.2−
2000 02 08	704	0.0	0.3−	2000 03 26	699	1.0−	0.3+	2000 04 08	704	0.2−	0.3+
2000 02 08	704	0.3+	0.5−	2000 03 26	699	0.9−	0.2+	2000 04 08	704	0.4−	0.2−
2000 02 08	704	0.1−	0.5−	2000 03 29	704	0.2+	0.1−	2000 04 10	704	0.0	0.1−
2000 02 08	704	0.4−	0.5−	2000 03 29	704	0.5+	0.1+	2000 04 10	704	0.0	0.5−
2000 02 25	691	0.2−	0.4−	2000 03 29	704	0.4+	0.0	2000 04 10	704	0.1+	0.4−
2000 02 25	691	0.3−	0.4−	2000 03 29	704	0.4+	0.1+	2000 04 10	704	0.2+	0.1−
2000 02 25	691	0.5−	0.4−	2000 04 04	704	0.3+	0.3+	2000 04 10	704	0.1−	0.1+
2000 02 26	691	0.7−	0.5−	2000 04 04	704	0.2−	1.2−				

Residuals in seconds of arc

1979 10 16	095	1.3−	0.9+	2000 03 08	704	0.2−	0.2+	2000 03 30	703	0.3+	0.1+
1991 04 19	809	0.9+	0.1−	2000 03 08	704	0.5−	0.3+	2000 03 30	703	0.6+	0.3+
1991 04 19	809	0.1−	0.7−	2000 03 08	704	0.2+	0.0	2000 04 04	704	0.1+	0.3−
1991 04 19	809	0.1+	0.9−	2000 03 08	704	0.4−	0.3+	2000 04 04	704	0.2−	0.2−
1997 09 02	566	0.2−	0.9+	2000 03 10	704	0.3+	0.1+	2000 04 04	704	0.5+	0.1−
1997 09 02	566	0.4−	0.9+	2000 03 10	704	0.3+	0.0	2000 04 04	704	0.4−	0.1−
1997 09 02	566	0.5−	0.7+	2000 03 10	704	0.7+	0.1+	2000 04 04	704	0.4−	0.9−
1998 12 14	704	0.1−	0.4+	2000 03 10	704	0.5+	0.4+	2000 04 05	704	0.6+	0.3−
1998 12 14	704	0.3−	1.4+	2000 03 10	704	0.4+	1.0+	2000 04 05	704	0.5−	0.2−
1998 12 14	704	1.3−	0.1+	2000 03 11	704	0.2−	0.1+	2000 04 05	704	0.0	0.1−
1998 12 14	704	(2.9−	2.3+)	2000 03 11	704	0.5−	0.2−	2000 04 05	704	0.1+	0.3−
1998 12 17	704	0.1−	0.3+	2000 03 11	704	0.6−	0.6−	2000 04 05	704	0.0	0.1−
1998 12 17	704	0.3+	0.1+	2000 03 11	704	0.9−	0.7−	2000 04 06	704	0.1+	0.2+
1998 12 17	704	0.6+	0.6−	2000 03 11	704	1.8−	1.2−	2000 04 06	704	0.1+	0.3+
1998 12 17	704	0.8+	1.2−	2000 03 14	703	0.1+	0.2+	2000 04 06	704	0.1+	0.4+
1998 12 17	704	1.0+	0.1+	2000 03 14	703	0.0	0.3+	2000 04 06	704	0.1−	0.3+
2000 01 13	699	0.3−	0.7+	2000 03 14	703	0.4+	0.2+	2000 04 06	704	0.1−	0.4+
2000 01 13	699	0.3+	1.1+	2000 03 14	703	0.4−	0.1−	2000 04 10	704	0.5+	0.1−
2000 01 13	699	0.1−	0.9−	2000 03 26	699	0.2+	0.2+	2000 04 10	704	0.2+	0.3+
2000 02 27	703	0.5−	0.4+	2000 03 26	699	0.0	0.0	2000 04 10	704	0.6+	1.0+
2000 02 27	703	0.1−	0.1+	2000 03 26	699	0.1−	0.0	2000 04 10	704	0.4+	0.8+
2000 02 27	703	0.4+	0.4−	2000 03 26	699	0.1−	0.2−	2000 04 10	704	0.4+	1.1+
2000 02 27	703	0.1−	0.5+	2000 03 30	703	0.1+	0.4+				
2000 03 08	704	0.1−	0.4+	2000 03 30	703	0.1+	0.1+				

2000 EX₃₉ = 1998 UA₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	39.57656		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.24331891	<i>ω</i>	105.74820	−0.49469947	−0.86859151		
<i>a</i>	2.5410828	<i>Ω</i>	14.00980	+0.74515033	−0.44090245		
<i>e</i>	0.1885899	<i>i</i>	6.79827	+0.44723978	−0.22617209		
<i>P</i>	4.05	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 03 18	566	0.9−	0.2−	2000 01 08	704	0.3+	1.1−	2000 04 04	704	0.4−	0.2+
1996 03 18	566	0.2−	0.2−	2000 02 27	703	0.1+	0.0	2000 04 04	704	0.1+	0.8+
1996 03 18	566	1.3−	0.4−	2000 02 27	703	0.5−	0.3−	2000 04 04	704	0.2+	0.6+
1996 04 22	566	0.5+	0.5−	2000 02 27	703	0.1+	0.4+	2000 04 04	704	0.1−	0.4+
1996 04 22	566	0.3+	0.8−	2000 02 27	703	0.2+	0.3+	2000 04 04	704	0.1+	0.7+
1996 04 22	566	0.0	0.7−	2000 03 08	704	0.3+	0.1−	2000 04 05	704	0.4+	0.2+
1998 09 20	327	1.0+	0.1+	2000 03 08	704	0.6−	0.4+	2000 04 05	704	0.3+	0.2+
1998 09 20	327	0.2+	1.6+	2000 03 08	704	0.4−	0.3−	2000 04 05	704	0.5+	0.3+
1998 09 20	327	0.3+	1.4+	2000 03 08	704	0.6−	0.2−	2000 04 05	704	0.3+	0.3+
1998 10 28	704	1.8−	0.2−	2000 03 10	704	0.1+	0.1+	2000 04 05	704	(3.0+	2.4+)
1998 10 28	704	0.8−	1.4+	2000 03 10	704	0.1+	0.3+	2000 04 06	704	0.7+	0.2+
1998 10 28	704	0.3−	0.0	2000 03 10	704	0.2+	0.3+	2000 04 06	704	0.6+	0.1+
1998 10 28	704	0.9−	0.3+	2000 03 10	704	0.4+	0.4+	2000 04 06	704	0.3+	0.7+
1998 10 28	704	1.6−	0.4+	2000 03 10	704	0.2−	0.6+	2000 04 06	704	0.9+	0.0
1998 10 29	704	0.1+	1.7+	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.7+	0.4+
1998 10 29	704	(0.4−	3.1+)	2000 03 11	704	0.0	0.3+	2000 04 06	704	1.0+	1.1+
1998 10 29	704	(1.6−	2.6+)	2000 03 11	704	0.2+	0.6+	2000 04 06	704	1.0+	0.3+
1998 10 29	704	(0.2−	2.2+)	2000 03 11	704	0.5+	0.8+	2000 04 06	704	0.7+	0.7+
1998 10 29	704	(0.5−	2.6+)	2000 03 11	704	0.7+	0.7+	2000 04 06	704	0.7+	0.5+
1999 11 10	703	0.6+	1.1−	2000 03 14	703	0.1−	0.2+	2000 04 10	704	0.2+	0.4+
1999 11 10	703	0.5−	0.5+	2000 03 14	703	0.3−	0.2+	2000 04 10	704	0.8+	0.6+
1999 11 10	703	0.3−	0.3+	2000 03 14	703	0.3−	0.3+	2000 04 10	704	0.0	0.3+
1999 11 10	703	0.0	0.2+	2000 03 14	703	0.4+	0.1+	2000 04 10	704	0.3−	0.2+
2000 01 08	704	1.4−	1.2−	2000 03 26	699	0.0	0.1+	2000 04 10	704	0.2−	0.0
2000 01 08	704	0.5−	0.7−	2000 03 26	699	0.1−	0.0	2000 04 12	608	0.8−	1.1−
2000 01 08	704	1.0−	1.1−	2000 03 26	699	0.1+	0.1+	2000 04 12	608	0.7−	0.8−
2000 01 08	704	1.0−	0.9−	2000 03 26	699	0.2+	0.2+	2000 04 12	608	0.6−	1.0−

2000 EZ₃₉ = 1996 LR = 1998 XQ₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	339.90196		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.22763686	<i>ω</i>	165.42919	−0.91954318	+0.39204135		
<i>a</i>	2.6564868	<i>Ω</i>	37.68908	−0.36487770	−0.82593021		
<i>e</i>	0.1388880	<i>i</i>	2.55695	−0.14596099	−0.40514550		
<i>P</i>	4.33	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 22	809	(1.1+	2.9+)	1998 12 14	704	0.7+	0.3−	2000 03 11	704	0.4+	0.7−
1993 10 22	809	(0.3+	2.9+)	1998 12 14	704	(1.4+	2.2−)	2000 03 14	703	0.1−	0.3+
1993 10 22	809	(0.8−	4.1+)	1998 12 14	704	0.2+	1.0+	2000 03 14	703	0.2+	0.0
1995 01 03	010	1.2−	0.8−	1998 12 14	704	0.8−	0.6+	2000 03 14	703	0.0	0.0
1995 01 04	010	0.8+	0.5−	1998 12 17	704	0.1−	0.3+	2000 03 14	703	0.1+	0.4+
1996 03 18	566	1.0−	0.8−	1998 12 17	704	0.8+	0.7−	2000 03 26	699	0.1−	0.1−
1996 03 18	566	0.0	0.6−	1998 12 17	704	1.1+	0.6−	2000 03 26	699	0.1−	0.0
1996 03 18	566	0.8−	1.0−	1998 12 17	704	0.0	0.5−	2000 03 26	699	0.0	0.1+
1996 06 12	566	0.1−	1.2−	1998 12 17	704	0.8+	0.0	2000 03 26	699	0.3−	0.0
1996 06 12	566	0.0	0.9−	1999 01 05	699	0.6+	0.5+	2000 04 04	704	0.0	0.3+
1996 06 12	566	0.3+	1.4−	1999 01 05	699	(2.6+	0.1−)	2000 04 04	704	0.2+	0.3+
1996 06 12	566	0.3−	0.7−	1999 01 05	699	0.4+	0.3+	2000 04 04	704	0.1+	0.1+
1996 06 12	566	0.3−	0.7−	2000 01 13	699	0.5−	0.6−	2000 04 04	704	0.8+	0.7+
1996 06 12	566	0.4−	0.8−	2000 01 13	699	0.2−	0.6+	2000 04 04	704	0.4+	0.3+
1996 06 13	566	0.2−	0.9−	2000 01 13	699	0.4−	0.2+	2000 04 05	704	0.2+	0.2+
1996 06 13	566	0.1−	0.7−	2000 03 08	704	0.4+	0.4−	2000 04 05	704	0.1+	0.6+
1996 06 13	566	0.0	0.8−	2000 03 08	704	0.0	0.4−	2000 04 05	704	0.0	0.7+
1997 08 13	327	0.3−	0.6+	2000 03 08	704	0.2+	0.3+	2000 04 05	704	0.1+	0.8+
1997 08 13	327	0.7−	0.8+	2000 03 08	704	0.0	0.4−	2000 04 05	704	0.2+	0.9+
1997 08 13	327	0.4−	0.7+	2000 03 08	704	0.5−	0.0	2000 04 06	704	0.7+	0.3+
1997 08 13	327	0.9−	0.9+	2000 03 10	704	0.5+	0.1−	2000 04 06	704	(2.3+	0.4−)
1998 11 24	704	0.1+	0.5+	2000 03 10	704	0.3−	0.2+	2000 04 06	704	(2.9−	1.1−)
1998 11 24	704	0.6−	0.5−	2000 03 10	704	0.2+	0.0	2000 04 06	704	0.5−	0.1+
1998 11 24	704	0.7−	1.4−	2000 03 10	704	0.8+	0.6+	2000 04 10	704	0.1−	0.3+
1998 11 24	704	0.6−	1.8−	2000 03 10	704	0.7−	0.8+	2000 04 10	704	0.1+	0.4+
1998 12 14	704	0.9+	1.7−	2000 03 11	704	0.4+	0.1−	2000 04 10	704	0.2−	0.6+
1998 12 14	704	0.6+	1.1−	2000 03 11	704	0.4+	0.2−	2000 04 10	704	0.0	0.5+
1998 12 14	704	0.2−	0.0	2000 03 11	704	0.3+	0.7−	2000 04 10	704	0.4−	0.3+
1998 12 14	704	0.6−	0.7−	2000 03 11	704	0.0	1.4−				

2000 ED₄₀ = 1995 FN₂ = 1995 GC₉ = 1998 YM₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	112.29455		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.20548333	<i>ω</i>	34.56805	+0.53395814	−0.84478017		
<i>a</i>	2.8441444	<i>Ω</i>	23.21900	+0.75423256	+0.45711630		
<i>e</i>	0.1009201	<i>i</i>	5.11440	+0.38212818	+0.27819266		
<i>P</i>	4.80	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 23	691	0.1−	0.1+	1998 12 17	704	0.6+	0.6+	2000 04 04	704	0.1+	0.5+
1995 03 23	691	0.2−	0.1+	2000 03 08	704	(2.9+	1.6+)	2000 04 04	704	0.6+	0.5+
1995 03 23	691	0.0	0.1−	2000 03 08	704	0.1−	0.3+	2000 04 04	704	0.7+	0.2+
1995 03 29	691	0.2+	0.0	2000 03 08	704	0.2+	0.7+	2000 04 04	704	(2.7+	1.0+)
1995 03 29	691	0.2+	0.2−	2000 03 08	704	0.5+	0.6+	2000 04 05	704	0.0	0.2−
1995 03 29	691	0.3−	0.2−	2000 03 10	704	0.5+	0.3+	2000 04 05	704	0.1+	0.1−
1995 04 04	691	0.4−	0.2−	2000 03 10	704	0.4+	0.4−	2000 04 05	704	0.0	0.1−
1995 04 04	691	0.1−	0.4−	2000 03 10	704	0.3−	0.1+	2000 04 05	704	0.3−	0.1−
1995 04 04	691	0.1+	0.2−	2000 03 10	704	0.3−	0.4+	2000 04 05	704	0.2+	0.3−
1998 12 14	704	0.4−	0.2+	2000 03 10	704	1.3−	1.3−	2000 04 06	704	0.5−	0.0
1998 12 14	704	1.0−	1.7+	2000 03 11	704	0.4+	0.6+	2000 04 06	704	0.3−	0.3+
1998 12 14	704	0.6−	0.9+	2000 03 11	704	0.5+	0.5−	2000 04 06	704	0.2−	0.8−
1998 12 14	704	0.3−	1.0+	2000 03 11	704	0.0	0.0	2000 04 06	704	0.8+	0.0
1998 12 16	704	1.4+	0.8−	2000 03 11	704	0.6+	0.0	2000 04 06	704	0.4−	0.2+
1998 12 16	704	0.5+	1.8−	2000 03 11	704	0.1+	0.2−	2000 04 07	704	0.2+	0.4−
1998 12 16	704	0.0	0.4−	2000 03 26	699	0.3−	0.2+	2000 04 07	704	0.6+	0.1−
1998 12 16	704	0.4+	1.1−	2000 03 26	699	0.7−	0.0	2000 04 07	704	0.2+	0.1−

2000 APR. 18

M.P.C. 40143

1998 12 17	704	0.4+	0.4+	2000 03 26	699	0.8-	0.3+	2000 04 07	704	0.2+	0.0
1998 12 17	704	0.9-	0.4-	2000 03 26	699	0.8-	0.2+	2000 04 07	704	0.1+	0.3+

2000 EE₄₀ = 1998 YK₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams			Q		
<i>M</i>	50.45020	(2000.0)	P			Q		
<i>n</i>	0.17815338	ω	128.10192	-0.50174227	-0.86494000			
<i>a</i>	3.1280474	Ω	351.98841	+0.76542992	-0.43771648			
<i>e</i>	0.0974066	<i>i</i>	4.75507	+0.40295376	-0.24552612			
<i>P</i>	5.53	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1998 12 14	704	0.6-	0.3-	2000 03 08	704	1.1-	0.8-	2000 04 04	704	0.4-	0.4-
1998 12 14	704	0.7+	0.3-	2000 03 08	704	0.1-	0.0	2000 04 04	704	1.5-	0.5-
1998 12 14	704	(1.1+ 3.2+)		2000 03 10	704	0.1-	0.7-	2000 04 04	704	0.4-	0.8+
1998 12 14	704	0.2-	0.0	2000 03 10	704	0.2-	0.3+	2000 04 05	704	0.2+	0.3-
1998 12 14	704	0.4+	0.1+	2000 03 10	704	0.1-	0.3+	2000 04 05	704	0.2-	0.0
1998 12 16	704	1.0+	1.0-	2000 03 10	704	0.3-	0.4+	2000 04 05	704	0.2-	0.1-
1998 12 16	704	(2.1+ 1.9-)		2000 03 10	704	0.3+	0.9+	2000 04 05	704	0.1+	0.1+
1998 12 16	704	0.7-	0.0	2000 03 11	704	0.1+	0.4-	2000 04 05	704	0.2+	0.1-
1998 12 17	704	0.1+	0.5-	2000 03 11	704	0.2+	0.3-	2000 04 06	704	0.2+	0.4-
1998 12 17	704	0.3-	0.1-	2000 03 11	704	0.0	0.4-	2000 04 06	704	0.3+	0.0
1998 12 17	704	0.0	0.1+	2000 03 11	704	0.7+	0.3-	2000 04 06	704	0.4+	0.0
1998 12 17	704	0.2-	0.8+	2000 03 11	704	1.3+	0.2+	2000 04 06	704	0.9+	0.2-
1999 01 16	704	1.0+	1.1+	2000 03 26	699	0.2-	0.2-	2000 04 06	704	0.1+	0.4+
1999 01 16	704	0.7-	0.3-	2000 03 26	699	0.2-	0.4+	2000 04 07	699	0.1-	0.2+
1999 01 16	704	1.1-	1.8+	2000 03 26	699	0.2-	0.3+	2000 04 07	699	0.2+	0.1-
1999 01 16	704	0.6+	1.3-	2000 03 26	699	0.0	0.3+	2000 04 07	699	0.0	0.0
2000 03 08	704	0.6+	0.6-	2000 04 04	704	0.0	0.3+	2000 04 07	699	0.0	0.4+
2000 03 08	704	1.1-	0.2+	2000 04 04	704	0.4+	0.1+				

2000 EF₄₀ = 1981 EF₃₉ = 1990 SE₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams			Q		
<i>M</i>	171.85148	(2000.0)	P			Q		
<i>n</i>	0.26095403	ω	16.01789	+0.99503998	-0.09874343			
<i>a</i>	2.4252697	Ω	349.62659	+0.08233672	+0.88550589			
<i>e</i>	0.1187869	<i>i</i>	3.83675	+0.05582205	+0.45401438			
<i>P</i>	3.78	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1981 03 02	413	1.8-	2.0-	1990 09 25	809	1.4-	0.2+	2000 03 11	704	1.0+	0.7+
1981 03 07	413	(3.8- 1.7+)		1996 01 26	691	0.5+	0.1+	2000 03 11	704	1.2+	0.1-
1981 03 07	413	0.4+	0.8-	1996 01 26	691	0.4+	0.3+	2000 03 11	704	0.7+	1.3+
1981 03 11	413	0.0	0.0	1996 01 26	691	0.0	0.4+	2000 04 05	704	0.0	0.6-
1981 03 16	413	(6.5- 3.2+)		1996 02 10	691	0.1+	0.2+	2000 04 05	704	0.9+	0.5-
1981 03 16	413	(1.6+ 4.1-)		1996 02 10	691	0.2-	0.2+	2000 04 05	704	0.1-	0.4-
1990 09 23	809	0.7-	1.6+	1996 02 10	691	0.1-	0.1-	2000 04 06	704	0.4+	0.2-
1990 09 23	809	0.5-	1.6+	2000 03 08	704	0.2+	0.6+	2000 04 06	704	0.8+	0.6-
1990 09 23	809	0.2-	1.5+	2000 03 08	704	0.2+	1.4+	2000 04 06	704	0.5-	0.7-
1990 09 24	809	(6.6- 0.4-)		2000 03 08	704	0.7-	1.7+	2000 04 06	704	0.5-	0.4-
1990 09 24	809	(6.1- 0.4-)		2000 03 08	704	0.9-	1.1+	2000 04 06	704	0.3-	0.6-
1990 09 24	809	(5.7- 0.5-)		2000 03 10	704	0.3+	0.4+	2000 04 07	699	0.1+	0.5-
1990 09 24	809	0.7+	0.8-	2000 03 10	704	0.1+	0.3-	2000 04 07	699	0.9-	0.4+
1990 09 24	809	1.1+	0.9-	2000 03 10	704	0.3+	0.6+	2000 04 07	699	0.2-	0.1+
1990 09 24	809	1.5+	1.2-	2000 03 10	704	0.1-	0.3+	2000 04 07	699	0.1-	0.3+
1990 09 25	809	(2.3- 0.1+)		2000 03 11	704	0.2-	0.7+				
1990 09 25	809	1.8-	0.2+	2000 03 11	704	0.4+	0.4-				

2000 EJ₄₀ = 1999 BZ₁₆

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	316.41975	(2000.0)	P			Q		
<i>n</i>	0.18059331	ω	218.72010	-0.56967516	+0.82179543			
<i>a</i>	3.0998091	Ω	16.56170	-0.74406133	-0.50997668			
<i>e</i>	0.1358530	<i>i</i>	2.22508	-0.34906008	-0.25411819			
<i>P</i>	5.46	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 12 17	704	(0.0 2.3+)	2000 03 10	704	0.5+	0.1+	2000 04 04	704	0.2-	0.8+	
1998 12 17	704	0.1-	0.2-	2000 03 10	704	0.0	0.6+	2000 04 04	704	0.0	0.7+
1998 12 17	704	1.5+	0.3-	2000 03 11	704	0.2+	0.3-	2000 04 05	704	0.1+	0.2+
1998 12 17	704	1.7-	0.0	2000 03 11	704	0.4+	0.0	2000 04 05	704	0.1+	0.3+
1998 12 17	704	(2.4+ 1.7+)		2000 03 11	704	0.2+	0.2+	2000 04 05	704	0.0	0.2+
1999 01 16	704	1.0+	0.6+	2000 03 11	704	0.6+	0.4+	2000 04 05	704	0.1+	0.2+
1999 01 16	704	0.6-	0.3+	2000 03 11	704	0.7+	0.6+	2000 04 05	704	0.3-	0.4+
1999 01 16	704	0.2-	1.2-	2000 03 12	684	0.7-	1.5-	2000 04 06	704	0.2-	0.4+
1999 01 19	704	0.7+	0.9+	2000 03 12	684	0.6-	1.1-	2000 04 06	704	0.0	0.2+
1999 01 19	704	0.7-	0.2+	2000 03 12	691	0.2-	0.8-	2000 04 06	704	0.2-	0.4+
1999 01 19	704	0.2-	0.4-	2000 03 12	691	0.3-	0.7-	2000 04 06	704	0.2-	0.1-
1999 01 19	704	0.3+	0.4+	2000 03 12	691	0.3-	0.6-	2000 04 06	704	0.2-	0.6+
2000 02 26	691	0.9-	0.2-	2000 03 14	703	0.3-	0.8-	2000 04 07	699	0.2+	0.2+
2000 02 26	691	0.8-	0.1+	2000 03 14	703	0.1-	0.1-	2000 04 07	699	0.4+	0.3+
2000 02 26	691	0.8-	0.4-	2000 03 14	703	0.5+	0.5-	2000 04 07	699	0.4+	0.0
2000 03 08	704	0.8+	0.1+	2000 03 14	703	0.6-	0.1-	2000 04 07	699	0.1+	0.1-
2000 03 08	704	0.1+	0.1+	2000 03 26	699	0.1-	0.2-	2000 04 10	704	0.1-	0.0
2000 03 08	704	0.4+	0.5+	2000 03 26	699	0.1+	0.4-	2000 04 10	704	0.0	0.1-
2000 03 08	704	0.1-	0.1-	2000 03 26	699	0.2-	0.2-	2000 04 10	704	0.7+	0.4-
2000 03 08	704	0.1+	1.0+	2000 03 26	699	0.3+	0.2-	2000 04 10	704	0.4+	0.1-
2000 03 10	704	0.2+	0.5-	2000 04 04	704	0.2-	0.2+	2000 04 10	704	0.2-	0.6-
2000 03 10	704	0.1+	0.0	2000 04 04	704	0.3+	0.5+				
2000 03 10	704	0.5+	0.1-	2000 04 04	704	0.8-	0.7+				

2000 EK₄₀ = 1988 RA₄ = 1997 GA₂₂ = 1998 YR₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	271.82350	(2000.0)	P			Q		
<i>n</i>	0.30951166	ω	117.79582	+0.23818539	+0.97113653			
<i>a</i>	2.1644690	Ω	165.96625	-0.90850521	+0.22741270			
<i>e</i>	0.1659168	<i>i</i>	3.00469	-0.34334532	+0.07195352			
<i>P</i>	3.18	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1988 09 08	033	0.2-	1.0+	2000 03 08	704	0.9+	0.6+	2000 03 26	699	0.3-	0.1-
1988 09 09	033	0.0	1.4+	2000 03 08	704	0.6-	0.6-	2000 04 04	704	0.4-	0.2+
1988 09 09	033	0.8-	0.8+	2000 03 10	704	0.4+	0.3+	2000 04 04	704	0.4-	0.3+
1988 09 10	033	0.5-	0.6+	2000 03 10	704	1.0+	0.2+	2000 04 04	704	0.8-	0.0
1988 09 10	033	0.2-	0.2+	2000 03 10	704	0.8+	0.3+	2000 04 04	704	0.0	0.1-
1988 09 11	033	0.2-	1.3+	2000 03 10	704	0.9+	0.2+	2000 04 04	704	0.2+	0.2-
1997 04 06	704	0.6-	0.3+	2000 03 10	704	0.4+	0.3+	2000 04 05	704	0.3+	0.5-
1997 04 06	704	0.2-	0.2-	2000 03 10	704	0.8+	0.0	2000 04 05	704	0.3+	0.1+
1997 04 07	809	(2.8- 3.2+)		2000 03 10	704	0.1-	0.8+	2000 04 05	704	0.3+	0.2+
1997 04 07	809	(2.7- 2.9+)		2000 03 11	704	0.6+	0.6+	2000 04 05	704	0.0	0.6-
1997 04 07	809	(2.0- 2.2+)		2000 03 11	704	0.2-	0.5+	2000 04 05	704	0.8+	0.5-
1997 04 08	809	(0.9- 4.4+)		2000 03 11	704	0.0	0.0	2000 04 06	704	0.7-	0.4+
1997 04 08	809	(1.0- 4.0+)		2000 03 11	704	1.1+	0.9+	2000 04 06	704	0.1+	0.2+
1997 04 08	809	(0.7- 3.4+)		2000 03 11	704	0.1+	0.2-	2000 04 06	704	1.5+	0.7+
1997 04 08	704	0.1+	0.3+	2000 03 14	703	1.1-	0.3-	2000 04 07	699	0.7-	0.2-
1997 04 08	704	0.8+	0.8+	2000 03 14	703	0.7-	1.0+	2000 04 07	699	0.2-	1.0+
1998 12 17	910	0.3-	0.5-	2000 03 14	703	0.4+	0.7+	2000 04 07	699	0.4-	0.4+
1998 12 17	910	0.2+	0.2-	2000 03 14	703	0.8-	0.5+	2000 04 07	699	1.1-	0.0
1998 12 17	910	0.2-	0.1-	2000 03 14	691	0.2+	0.5-				

2000 EM₄₀ = 1977 DG₈ = 1994 CB₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17485372	ω	263.76733	-0.10653812	+0.99430860		
<i>a</i>	3.1672776	Ω	0.11727	-0.87697122	-0.09388654		
<i>e</i>	0.1526793	<i>i</i>	4.67827	-0.46858416	-0.05035591		
<i>P</i>	5.64	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1977 02 19	381	0.2+	0.6-	2000 03 08	704	0.1+	0.2-
1977 02 19	381	0.8-	0.7-	2000 03 08	704	0.4+	0.1+
1991 11 08	691	0.1-	0.0	2000 03 08	704	0.4+	0.3+
1991 11 08	691	0.1+	0.0	2000 03 08	704	0.1+	0.3-
1991 11 08	691	0.0	0.0	2000 03 10	704	0.3+	0.3-
1994 02 07	809	(1.6-	2.2-)	2000 03 10	704	0.2+	0.1+
1994 02 07	809	(3.1-	2.5-)	2000 03 10	704	0.2+	0.2+
1994 02 07	809	(3.6-	3.7-)	2000 03 10	704	0.1+	0.5+
1994 02 09	809	1.2+	1.6+	2000 03 11	704	0.2+	0.0
1994 02 09	809	0.5+	1.3+	2000 03 11	704	0.3+	0.4+
1994 02 09	809	0.3+	1.1+	2000 03 11	704	0.5+	0.4+
1996 09 13	566	1.0-	1.4+	2000 03 11	704	0.6+	0.5+
1996 09 13	566	0.8-	1.3+	2000 03 11	704	1.1+	1.6+
1996 09 13	566	1.0-	1.3+	2000 04 04	704	0.3+	0.6+
1996 10 10	566	0.3-	1.0+	2000 04 04	704	0.3+	0.0
1996 10 10	566	0.3-	1.3+	2000 04 04	704	0.1-	0.2+
1996 10 10	566	0.4-	1.0+	2000 04 04	704	0.4+	1.0+
2000 03 06	608	0.7-	0.8-	2000 04 04	704	0.0	0.7+
2000 03 06	608	0.7-	1.1-	2000 04 05	704	0.1-	0.3+
2000 03 06	608	0.8-	0.8-	2000 04 05	704	0.4-	0.1+
2000 03 08	704	0.2-	0.3-	2000 04 05	704	0.1+	0.8+

2000 EN₄₀ = 1994 AR₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18279148	ω	145.99056	-0.99977290	-0.00439925		
<i>a</i>	3.0749077	Ω	33.77596	-0.00490623	-0.90466233		
<i>e</i>	0.0995139	<i>i</i>	2.14948	+0.02073832	-0.42610647		
<i>P</i>	5.39	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1994 01 11	691	0.7+	0.1+	2000 03 10	704	1.2+	0.5+
1994 01 11	691	0.8-	0.2-	2000 03 11	704	0.6+	0.2-
1994 01 16	691	0.9-	0.1-	2000 03 11	704	0.6+	0.2-
1994 01 16	691	0.7+	0.2+	2000 03 11	704	0.1+	0.1-
1994 01 16	691	0.3+	0.2+	2000 03 11	704	0.4+	0.1-
2000 02 26	691	0.3-	0.4-	2000 03 11	704	0.4+	0.3-
2000 02 26	691	0.4-	0.3-	2000 03 11	704	0.3+	0.0
2000 02 26	691	0.3-	0.4-	2000 03 11	704	0.8+	0.4+
2000 03 06	608	0.1-	0.6-	2000 03 11	704	0.5+	0.3+
2000 03 06	608	0.4-	0.9-	2000 03 11	704	0.5+	0.4+
2000 03 06	608	0.4-	1.0-	2000 03 11	704	0.3+	0.5+
2000 03 08	704	0.3+	0.0	2000 03 11	704	0.1-	0.1-
2000 03 08	704	0.3+	0.5+	2000 03 11	704	0.5-	0.4+
2000 03 08	704	0.3+	0.3+	2000 03 11	704	0.3-	0.2-
2000 03 08	704	0.3+	1.4+	2000 03 11	704	0.6-	0.2-
2000 03 08	704	0.1+	0.0	2000 03 11	704	0.8-	0.3-
2000 03 10	704	1.1-	0.9+	2000 03 14	691	0.2-	1.1-
2000 03 10	704	0.6-	1.0+	2000 03 14	691	0.1-	1.1-
2000 03 10	704	0.7-	1.2+	2000 03 14	691	0.2-	1.2-
2000 03 10	704	1.0-	1.0+	2000 03 26	699	0.7-	0.4-
2000 03 10	704	0.9-	0.9+	2000 03 26	699	0.6-	0.2-
2000 03 10	704	0.3+	0.8-	2000 03 26	699	0.7-	0.3-
2000 03 10	704	0.5+	0.4-	2000 03 26	699	0.3-	0.5-
2000 03 10	704	0.7+	0.6-	2000 04 04	704	0.3+	0.1+
2000 03 10	704	0.9+	0.7+	2000 04 04	704	0.8+	0.4+

2000 EP₄₀ = 1998 XM₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20182550	ω	350.99404	+0.70300246	-0.71019323		
<i>a</i>	2.8784058	Ω	54.32659	+0.65534923	+0.62637097		
<i>e</i>	0.0370239	<i>i</i>	2.65229	+0.27623347	+0.32137981		
<i>P</i>	4.88	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1998 12 14	704	1.2+	0.2-	2000 03 10	704	0.6+	0.9+
1998 12 14	704	0.3+	0.5+	2000 03 10	704	0.1-	0.1-
1998 12 14	704	0.5+	1.1+	2000 03 10	704	0.2-	0.6+
1998 12 14	704	1.7-	0.6-	2000 03 10	704	0.2-	0.1+
1998 12 17	704	1.1+	0.2-	2000 03 11	704	0.4-	0.0
1998 12 17	704	0.3-	0.6+	2000 03 11	704	0.2-	0.1+
1998 12 17	704	0.8-	0.3+	2000 03 11	704	0.9-	0.2+
1999 01 16	704	0.6+	1.1-	2000 03 11	704	0.1+	0.1-
1999 01 16	704	(2.4+	1.3-)	2000 03 11	704	0.3-	0.2-
1999 01 16	704	0.3-	1.2+	2000 03 11	704	0.3+	0.5-
1999 01 16	704	0.5-	1.4-	2000 03 11	704	0.7+	0.1-
1999 01 16	704	(4.7-	2.7+)	2000 03 11	704	0.4+	0.4+
2000 03 01	703	1.1-	0.4+	2000 03 11	704	0.1+	0.3-
2000 03 01	703	0.3-	0.1+	2000 03 11	704	0.2+	0.1-
2000 03 01	703	0.7+	0.4-	2000 03 27	699	0.6-	0.9+
2000 03 01	703	1.3-	0.9+	2000 03 27	699	0.0	0.1-
2000 03 06	608	0.2+	1.6-	2000 03 27	699	0.1-	0.4+
2000 03 06	608	0.3+	1.5-	2000 03 27	699	0.6+	0.4+
2000 03 06	608	0.5+	1.9-	2000 03 29	704	0.3-	0.2+
2000 03 08	704	0.2-	1.1+	2000 03 29	704	0.3-	0.6+
2000 03 08	704	0.4+	0.3-	2000 03 29	704	0.5-	0.2-
2000 03 08	704	0.1+	0.7-	2000 03 29	704	0.3-	0.4+
2000 03 08	704	0.2+	0.4-	2000 04 04	704	0.7+	0.5+
2000 03 08	704	0.3-	0.4-	2000 04 04	704	0.0	0.6+
2000 03 10	704	0.2-	0.7+	2000 04 04	704	0.5+	1.5+

2000 EX₄₀ = 1992 SK₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20477097	ω	177.64513	+0.85110246	+0.52453642		
<i>a</i>	2.8507368	Ω	150.68443	-0.48241076	+0.79793938		
<i>e</i>	0.0737856	<i>i</i>	2.58104	-0.20713392	+0.29690787		
<i>P</i>	4.81	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1992 09 22	809	0.1+	0.4+	2000 03 11	704	0.2+	0.1+
1992 09 22	809	0.1+	0.4+	2000 03 11	704	0.3-	0.3+
1992 09 22	809	1.3-	1.1-	2000 03 11	704	0.2+	0.4+
1992 09 23	809	1.0+	0.0	2000 03 12	691	0.4-	0.7-
1992 09 23	809	0.1-	0.0	2000 03 12	691	0.3-	0.9-
1992 09 23	809	0.1+	0.5+	2000 03 12	691	0.3-	0.8-
1997 10 30	704	0.4+	0.5+	2000 03 14	691	0.9-	0.6-
1997 10 30	704	0.8-	0.7+	2000 03 14	691	0.8-	0.5-
1997 10 30	704	1.0+	0.4+	2000 03 14	691	0.8-	0.3-
1997 10 30	704	0.1+	0.3-	2000 03 27	699	0.1-	0.7-
1997 10 30	704	0.9-	0.7-	2000 03 27	699	0.2+	0.8-
2000 03 08	704	1.0+	0.2+	2000 03 27	699	0.3-	0.2+
2000 03 08	704	0.5+	0.1-	2000 03 27	699	0.2+	0.3-
2000 03 08	704	0.5-	0.1-	2000 04 03	699	0.1-	0.1-
2000 03 08	704	0.4-	1.1+	2000 04 03	699	0.2+	0.2+
2000 03 08	704	0.5-	0.6+	2000 04 03	699	1.0-	0.5+
2000 03 10	704	0.7-	0.3+	2000 04 03	699	0.9-	0.3+
2000 03 10	704	0.0	0.4-	2000 04 04	704	1.1+	1.0-
2000 03 10	704	0.1+	0.3+	2000 04 04	704	1.1+	0.1+
2000 03 10	704	0.2+	1.0+	2000 04 04	704	0.8+	0.7+
2000 03 10	704	0.0	0.9+	2000 04 04	704	0.8-	0.0
2000 03 11	704	0.2+	0.0	2000 04 05	704	0.1+	0.1+

2000 APR. 18

M.P.C. 40145

2000 EB₄₁ = 1993 SR₈

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 271.58742 (2000.0)			Williams	
			P	Q
<i>n</i>	0.24308160	ω	262.60806	+0.31544810
<i>a</i>	2.5427363	Ω	25.85503	+0.29474790
<i>e</i>	0.1677028	<i>i</i>	4.34951	+0.11715396
<i>P</i>	4.05	<i>H</i>	14.7	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1993 09 17	809(12.7–2.3–)	2000 03 10	704	0.0	0.6–	2000 04 04	704	0.6+	0.4–
1993 09 17	809(13.6–2.0–)	2000 03 10	704	0.0	1.0–	2000 04 04	704	1.3+	0.2+
1993 09 17	809(13.3–2.6–)	2000 03 10	704	0.8–	0.7–	2000 04 04	704	0.6+	1.2+
1993 09 18	809(13.6–2.2–)	2000 03 11	120	(2.1+ 0.0)		2000 04 04	704	0.6+	0.6+
1993 09 18	809(13.3–1.4–)	2000 03 11	120	0.4+	0.3–	2000 04 04	704	0.6–	0.0
1993 09 18	809(14.1–1.8–)	2000 03 11	704	0.0	0.1+	2000 04 05	704	0.1–	0.2+
1996 05 22	599 0.0	2000 03 11	704	0.1+	0.2+	2000 04 05	704	0.2–	0.3+
1996 05 22	599 (2.4+ 3.2–)	2000 03 11	704	0.2–	0.1–	2000 04 05	704	0.1+	0.1+
1996 05 23	599 0.9–	2000 03 11	704	0.2–	0.2+	2000 04 05	704	0.1+	0.1–
1996 05 23	599 0.3+ 1.8–	2000 03 12	691	0.2–	0.5–	2000 04 05	704	0.0	0.2+
1997 10 30	704 0.5+ 1.5–	2000 03 12	691	0.3–	0.6–	2000 04 06	704	0.2–	0.2+
1997 10 30	704 1.6+ 0.8–	2000 03 12	691	0.4–	0.6–	2000 04 06	704	0.0	0.2–
1997 10 30	704 1.7– 1.1+	2000 03 14	691	1.0–	0.3–	2000 04 06	704	0.2+ 0.2–	
1997 10 30	704 0.7– 0.8+	2000 03 14	691	0.8–	0.4–	2000 04 06	704	0.1+ 0.3+	
1997 10 30	704 0.2+ 0.5+	2000 03 14	691	0.8–	0.5–	2000 04 06	704	0.1– 0.3+	
2000 03 01	703 0.3– 0.3+	2000 03 27	699	0.6+ 0.0		2000 04 07	699	0.0	0.2–
2000 03 01	703 0.7+ 0.4–	2000 03 27	699	0.7+ 0.3+		2000 04 07	699	0.2– 0.3+	
2000 03 01	703 0.3– 0.3–	2000 03 27	699	0.4+ 0.6+		2000 04 07	699	0.4+ 0.2+	
2000 03 01	703 0.3– 0.5–	2000 03 27	699	0.3– 0.5+		2000 04 07	699	0.4+ 0.6+	
2000 03 08	704 0.0	2000 03 27	888	1.0+ 0.9–		2000 04 10	704	0.2+ 0.2+	
2000 03 08	704 0.1+ 0.5+	2000 03 27	888	0.7+ 0.4–		2000 04 10	704	0.1+ 0.3+	
2000 03 08	704 0.1+ 0.9+	2000 03 27	888	0.3– 0.0		2000 04 10	704	0.6+ 0.1–	
2000 03 08	704 0.2– 0.3+	2000 04 03	699	0.2– 0.3–		2000 04 10	704	0.0	0.1+
2000 03 08	704 0.1– 1.3+	2000 04 03	699	0.4– 0.5–		2000 04 10	704	0.5– 0.1–	
2000 03 10	704 0.6– 0.1+	2000 04 03	699	0.5– 0.0					
2000 03 10	704 0.2+ 0.3–	2000 04 03	699	0.1+ 0.4–					

2000 EH₄₁ = 1998 SC₁₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 58.29716 (2000.0)			Williams	
			P	Q
<i>n</i>	0.25526901	ω	313.51407	–0.28875619
<i>a</i>	2.4611457	Ω	153.24921	–0.27649461
<i>e</i>	0.1454735	<i>i</i>	2.60755	+0.35033633
<i>P</i>	3.86	<i>H</i>	14.9	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1994 09 05	691 0.5– 0.5+	2000 03 08	704	0.1– 0.6+	2000 04 04	704	0.2+ 0.3–
1994 09 05	691 0.0	2000 03 08	704	0.3+ 0.3+	2000 04 04	704	0.2– 0.7+
1994 09 05	691 0.2– 0.4+	2000 03 08	704	0.6+ 1.1+	2000 04 04	704	0.2+ 0.2+
1996 03 11	691 0.2– 0.6–	2000 03 08	704	0.4+ 0.1–	2000 04 05	704	0.0
1996 03 11	691 0.2– 0.5–	2000 03 10	704	0.2– 1.1–	2000 04 05	704	0.5+ 0.2+
1996 03 11	691 0.0	2000 03 10	704	0.1+ 0.6–	2000 04 05	704	0.2– 0.1+
1998 09 26	704 1.5– 0.4–	2000 03 10	704	0.5+ 0.5–	2000 04 05	704	0.1– 0.1+
1998 09 26	704 0.4– 0.7+	2000 03 10	704	0.1– 0.1–	2000 04 05	704	0.1– 0.3+
1998 09 26	704 1.4– 0.4+	2000 03 10	704	0.2– 1.3–	2000 04 06	704	0.3+ 0.1–
1998 09 26	704 0.8– 0.3–	2000 03 11	704	0.0	2000 04 06	699	0.3– 0.1–
1998 09 27	704 0.3– 0.2+	2000 03 11	704	0.2– 0.3–	2000 04 06	704	0.2+ 0.0
1998 09 27	704 1.6+ 0.4+	2000 03 11	704	0.1+ 0.2+	2000 04 06	699	0.2– 0.4+
1998 09 27	704 0.4– 0.9+	2000 03 11	704	0.3+ 0.4–	2000 04 06	704	0.2– 0.2+
1998 09 27	704 0.9+ 1.1+	2000 03 27	699	0.9– 0.6+	2000 04 06	699	0.2– 0.5+
1998 09 27	704 0.6– 0.3+	2000 03 27	699	0.8– 0.6+	2000 04 06	704	0.2– 0.3+
1998 10 20	699 0.2– 0.2+	2000 03 27	699	0.6– 0.9+	2000 04 06	704	0.2+ 0.7+
1998 10 20	699 0.4+ 1.2+	2000 03 27	699	0.8– 1.5+	2000 04 06	699	0.2– 0.2+
1998 10 20	699 0.7+ 1.0+	2000 04 02	699	0.2+ 0.5+	2000 04 10	704	0.6+ 0.7+
2000 03 01	703 0.5+ 0.2+	2000 04 02	699	0.4+ 0.0	2000 04 10	704	0.1– 0.0
2000 03 01	703 0.2– 0.4+	2000 04 02	699	0.3+ 0.6+	2000 04 10	704	0.8+ 0.1–

2000 03 01	703	0.1– 0.4+	2000 04 02	699	0.1+ 0.2–	2000 04 10	704	0.7+ 0.2+
2000 03 01	703	0.3– 0.2+	2000 04 04	704	0.4+ 0.6–	2000 04 10	704	0.2+ 0.1+
2000 03 08	704	1.7+ 0.7+	2000 04 04	704	0.1– 0.3+			

2000 EM₄₁ = 1996 DL₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 59.70400 (2000.0)			Williams	
			P	Q
<i>n</i>	0.26976470	ω	331.85592	–0.47291977
<i>a</i>	2.3721709	Ω	146.35910	+0.81437452
<i>e</i>	0.0324714	<i>i</i>	1.86260	+0.33636444
<i>P</i>	3.65	<i>H</i>	15.0	<i>G</i> 0.15 <i>U</i> 2

Residuals in seconds of arc

1996 02 16	010	1.1–	0.1–	2000 03 08	704	0.2–	0.5+	2000 04 06	704	0.4+	0.5+
1996 02 16	010	1.0–	0.4–	2000 03 10	704	0.9+	0.9–	2000 04 06	699	0.4+	0.2+
1996 02 16	010	1.2–	0.4–	2000 03 10	704	0.7–	1.0–	2000 04 06	704	0.2+	0.1+
1996 02 17	010	1.8+	1.7+	2000 03 10	704	0.3+	0.1+	2000 04 06	699	0.3+	0.0
1996 02 17	010	0.7+	1.3+	2000 03 10	704	0.6–	1.2–	2000 04 06	704	0.5+	0.2–
1996 02 17	010	1.6+	1.3+	2000 03 11	704	0.2–	0.2–	2000 04 06	704	0.3+	0.3–
1996 02 20	566	0.2+	0.6–	2000 03 11	704	0.2–	0.4–	2000 04 06	699	0.1–	0.1–
1996 02 20	566	1.0–	1.1–	2000 03 11	704	0.7–	1.0–	2000 04 07	704	0.1+	0.2–
1996 02 20	566	0.4+	0.5–	2000 03 11	704	1.0–	0.7–	2000 04 07	704	0.4+	0.2+
1998 11 11	704	0.8+	0.3–	2000 03 27	699	1.0–	0.3+	2000 04 07	704	0.3–	0.3+
1998 11 11	704	0.7+	1.0–	2000 03 27	699	0.4–	0.3–	2000 04 07	704	0.1+	0.0
1998 11 11	704	0.0	0.4–	2000 03 27	699	1.3–	0.4–	2000 04 07	704	0.0	0.1+
1998 11 11	704	0.5+	0.6+	2000 03 27	699	0.5–	0.2+	2000 04 08	704	0.1–	0.8–
1998 11 11	704	1.9–	0.6–	2000 04 02	699	0.3–	0.5+	2000 04 08	704	0.3+	1.2–
1998 11 11	699	0.0	0.2+	2000 04 02	699	0.4–	0.2+	2000 04 08	704	0.4+	0.3+
1998 11 11	699	0.6+	0.2–	2000 04 02	699	0.3+	0.5+	2000 04 08	704	0.2–	0.6+
1998 11 11	699	0.1+	0.3–	2000 04 02	699	0.3–	0.4+	2000 04 08	704	0.6–	0.5+
1998 11 24	699	0.6–	0.4+	2000 04 04	704	(0.8–	2.7–)	2000 04 10	704	0.0	0.1–
1998 11 24	699	0.2–	1.1+	2000 04 04	704	(0.7+ 2.2–)		2000 04 10	704	0.2–	0.3–
1998 11 24	699	0.2+	0.0	2000 04 04	704	0.7–	0.7+	2000 04 10	704	0.3–	0.5–
2000 03 01	703	0.1+	0.4–	2000 04 04	704	0.3+	1.4+	2000 04 10	704	0.1–	0.4–
2000 03 01	703	0.0	0.5–	2000 04 05	704	0.0	0.2+	2000 04 10	704	0.2–	0.3–
2000 03 01	703	0.5–	0.0	2000 04 05	704	0.1+	0.1+	2000 04 10	704	0.3+	0.1–
2000 03 01	703	0.2–	0.7–	2000 04 05	704	0.3+	0.3–	2000 04 10	704	0.5+	0.2+
2000 03 08	704	0.8+	0.3+	2000 04 05	704	(3.0–	1.0–)	2000 04 10	704	0.4–	0.8+
2000 03 08	704	0.7+	0.3+	2000 04 05	704	0.1–	0.7–	2000 04 10	704	0.7+	0.5+
2000 03 08	704	0.6+	0.5+	2000 04 06	699	0.5+	0.1+	2000 04 10	704	0.7+	0.0
2000 03 08	704	0.1–	0.9+	2000 04 06	704	0.7+	0.0				

2000 EZ₄₁ = 1980 TV₈ = 1998 UO₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 144.59321 (2000.0)			Williams	
			P	Q
<i>n</i>	0.17314018	ω	240.06989	+0.90051623
<i>a</i>	3.1881406	Ω	145.70281	+0.40109676
<i>e</i>	0.1697172	<i>i</i>	0.36348	+0.16790448
<i>P</i>	5.69	<i>H</i>	13.8	<i>G</i> 0.15 <i>U</i> 1

Residuals in seconds of arc

1980 10 13	095 0.7+ 1.2–	1998 10 29	691	0.5+ 0.3–	2000 03 10	704	1.3+ 1.4+
1992 12 19	010 1.1+ 0.2+	1998 12 23	691	(0.5– 2.4–)	2000 03 11	704	0.5+ 0.6+
1992 12 19	010 0.1+ 0.5+	1998 12 23	691	0.3– 0.3+	2000 03 11	704	0.5+ 0.6+
1992 12 20	010 0.2– 0.5–	1998 12 23	691	0.7– 0.2–	2000 03 11	704	0.3– 0.9+
1994 03 10	691 0.6– 0.2–	1999 01 08	691	0.4– 0.6–	2000 03 11	704	0.2– 0.2+
1994 03 10	691 (8.2– 0.6–)	1999 01 08	691	0.4– 0.3–	2000 03 11	704	0.2– 0.6+
1994 03 10	691 0.4– 0.4–	1999 01 08	691	0.5– 0.2–	2000 03 26	699	0.2– 0.8+
1995 05 27	691 1.9– 0.8–	1999 01 19	691	(6.8+ 5.1–)	2000 03 26	699	0.8– 0.5–
1995 05 27	691 1.6– 0.9–	1999 01 19	691	0.5– 0.5–	2000 03 26	699	0.3– 0.2–
1997 10 30	704 0.1– 0.5+	2000 02 27	691	0.3– 0.6–	2000 03 26	699	0.9+ 0.0
1997 10 30	704 0.3– 1.5+	2000 02 27	691	0.2– 0.5–	2000 04 05	704	1.2

M.P.C. 40146

2000 APR. 18

1998 10 23	691	0.5−	0.4−	2000 03 10	704	0.2+	0.1+	2000 04 06	704	0.4+	0.1−
1998 10 23	691	0.4−	0.2−	2000 03 10	704	0.5+	0.2−	2000 04 06	704	0.8+	1.3+
1998 10 29	691	0.2+	0.5−	2000 03 10	704	0.0	0.3−				
1998 10 29	691	0.3+	0.4−	2000 03 10	704	0.4+	0.1−				

2000 EN₄₃ = 1998 SK₆₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	22.50933	(2000.0)	Williams				<i>P</i>	<i>Q</i>
<i>n</i>	0.29095816	ω	343.51652	−0.89301435	−0.44965946			
<i>a</i>	2.2555321	Ω	169.70440	+0.42354135	−0.85344630			
<i>e</i>	0.0487536	<i>i</i>	5.84899	+0.15211208	−0.26350671			
<i>P</i>	3.39	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 09 20	809	0.1+	1.3+	2000 03 10	704	0.2+	0.3+	2000 04 04	704	0.5+	0.3−
1998 09 20	809	0.8−	0.1−	2000 03 11	704	0.2−	0.1−	2000 04 04	704	1.0−	1.3−
1998 09 20	809	0.8−	1.1−	2000 03 11	704	0.1+	0.0	2000 04 04	704	0.7+	0.3−
1998 09 21	809	0.5+	1.0+	2000 03 11	704	0.0	0.0	2000 04 04	704	0.3−	0.4+
1998 09 21	809	1.0+	0.2−	2000 03 11	704	0.1+	0.3−	2000 04 04	704	0.8+	0.7−
1998 09 21	809	0.3−	0.3−	2000 03 27	699	0.6−	0.1+	2000 04 07	699	0.6+	0.0
2000 03 01	703	0.7+	0.2−	2000 03 27	699	0.7−	0.1+	2000 04 07	699	0.3+	0.7−
2000 03 01	703	0.1−	1.3−	2000 03 27	699	0.1−	0.0	2000 04 07	699	1.0+	0.2−
2000 03 01	703	0.6+	0.0	2000 03 27	699	0.4−	0.1−	2000 04 07	699	0.5+	0.2−
2000 03 01	703	0.4+	0.0	2000 03 29	704	0.1−	0.8+	2000 04 08	704	1.0+	0.3+
2000 03 08	704	0.4−	0.3−	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.2−	0.8+
2000 03 08	704	0.2−	0.6−	2000 03 29	704	0.4+	1.1+	2000 04 08	704	0.8+	0.9−
2000 03 08	704	0.1−	0.3−	2000 03 29	704	0.4+	0.3+	2000 04 08	704	0.3−	0.2+
2000 03 08	704	0.3−	0.7+	2000 03 29	704	0.5+	1.2+	2000 04 08	704	0.2−	1.6−
2000 03 10	704	0.1+	0.3+	2000 04 02	699	0.3−	0.8+	2000 04 10	704	0.3−	0.2+
2000 03 10	704	0.2+	0.7−	2000 04 02	699	0.1−	0.4+	2000 04 10	704	0.3+	0.6−
2000 03 10	704	0.0	0.3+	2000 04 02	699	1.1−	0.5+	2000 04 10	704	0.7−	1.1+
2000 03 10	704	0.2−	0.3+	2000 04 02	699	1.8−	0.6+	2000 04 10	704	0.2+	0.5−

2000 EY₄₃ = 1994 SX₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	17.56678	(2000.0)	Williams				<i>P</i>	<i>Q</i>
<i>n</i>	0.26493465	ω	140.83078	−0.93638266	−0.34937137			
<i>a</i>	2.4009155	Ω	18.80345	+0.29014141	−0.82434545			
<i>e</i>	0.0888976	<i>i</i>	5.97882	+0.19749806	−0.44541467			
<i>P</i>	3.72	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1994 09 28	691	0.3−	0.3−	2000 04 02	699	0.4−	0.0	2000 04 06	704	0.2+	0.0
1994 09 28	691	0.4+	0.1+	2000 04 02	699	0.5−	0.1−	2000 04 06	704	0.1−	0.4+
1994 09 28	691	0.1−	0.4−	2000 04 02	699	0.2−	0.1+	2000 04 06	699	0.4−	0.2+
1994 10 04	691	1.0+	0.2−	2000 04 02	699	0.1−	0.0	2000 04 06	704	0.0	0.5+
1994 10 04	691	0.3−	0.1−	2000 04 03	699	0.2−	0.2−	2000 04 06	699	0.4−	0.0
1994 10 04	691	0.3−	0.0	2000 04 03	699	0.4−	0.4−	2000 04 06	704	0.2+	0.4+
1998 11 10	704	0.3+	0.8+	2000 04 03	699	0.4−	0.0	2000 04 06	699	0.4−	0.1+
1998 11 10	704	0.4−	0.1−	2000 04 03	699	1.0−	0.0	2000 04 06	691	0.7−	0.3−
1998 11 10	704	0.5+	1.5−	2000 04 04	704	0.0	0.5+	2000 04 06	704	0.3+	0.8+
1998 11 10	704	(3.9−	0.5−)	2000 04 04	704	0.3+	0.3+	2000 04 06	691	0.8−	0.2−
2000 03 08	704	0.9+	0.2+	2000 04 04	704	0.4+	0.2+	2000 04 06	691	0.8−	0.4−
2000 03 08	704	0.9+	0.5+	2000 04 04	704	0.3+	0.1+	2000 04 10	704	0.1−	0.2−
2000 03 08	704	0.8+	0.2+	2000 04 04	704	0.2+	0.2+	2000 04 10	704	0.1+	0.2−
2000 03 08	704	0.4+	0.4−	2000 04 05	704	0.4+	0.1+	2000 04 10	704	0.0	0.3−
2000 03 10	704	0.2+	0.9+	2000 04 05	704	0.7+	0.1+	2000 04 10	704	0.3+	0.1−
2000 03 10	704	0.2−	0.1−	2000 04 05	704	0.6+	0.2+	2000 04 10	704	0.1+	0.4−
2000 03 10	704	0.2+	0.7−	2000 04 05	704	0.5+	0.4+	2000 04 12	691	0.6−	0.9−
2000 03 10	704	0.4+	0.6−	2000 04 05	704	0.4+	0.4+	2000 04 12	691	0.5−	0.9−
2000 03 10	704	0.3−	0.4−	2000 04 06	699	0.3−	0.2+	2000 04 12	691	0.6−	1.2−

2000 EA₄₄ = 1977 RW₁₂ = 1997 LD₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.26227	(2000.0)	Williams				<i>P</i>	<i>Q</i>
<i>n</i>	0.28782315	ω	150.67081	+0.85970179	+0.51079321			
<i>a</i>	2.2718809	Ω	178.60876	−0.48170576	+0.81188864			
<i>e</i>	0.1728329	<i>i</i>	4.18124	−0.16991880	+0.28271386			
<i>P</i>	3.42	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1977 09 09	675	0.4+	1.0+	1998 12 15	704	1.0−	1.1+	2000 03 14	691	0.1+	0.7−
1977 09 10	675	0.9−	0.5+	1998 12 15	704	0.4+	0.1−	2000 03 14	691	0.4−	1.1−
1997 05 04	809	0.8−	0.2+	2000 03 08	704	0.4+	0.8+	2000 03 14	691	0.1+	0.8−
1997 05 04	809	1.2−	0.3−	2000 03 08	704	0.8+	0.7+	2000 03 26	699	0.7+	0.2+
1997 05 04	809	1.2−	0.2−	2000 03 08	704	0.2−	0.8+	2000 03 26	699	0.3−	0.8+
1997 05 31	691	(3.9+	1.7+)	2000 03 10	704	0.0	0.0	2000 03 26	699	0.3−	0.9+
1997 05 31	691	0.8+	0.1−	2000 03 10	704	1.0+	0.1−	2000 03 26	699	0.0	0.3+
1997 05 31	691	0.9+	0.1−	2000 03 10	704	0.2−	0.2−	2000 04 05	704	0.8−	0.7+
1997 06 07	809	1.0+	0.1−	2000 03 10	704	0.2+	0.5+	2000 04 05	704	0.1−	0.1+
1997 06 07	809	0.6+	0.1−	2000 03 11	704	1.2−	0.2+	2000 04 05	704	0.3−	0.7+
1997 06 07	809	0.7+	0.3+	2000 03 11	704	1.1−	1.5−	2000 04 05	704	0.1+	0.2+
1997 06 08	809	0.1−	0.2−	2000 03 11	704	0.1+	1.5−	2000 04 05	704	0.1+	0.0
1997 06 08	809	0.3−	0.2−	2000 03 14	703	0.3+	0.9+	2000 04 06	704	0.5+	0.0
1997 06 08	809	0.6−	0.2+	2000 03 14	703	0.3+	0.1+	2000 04 06	704	0.2−	0.1+
1998 12 15	704	0.5+	0.9−	2000 03 14	703	0.1−	0.1+	2000 04 06	704	0.2−	0.2+
1998 12 15	704	(2.1+	2.2−)	2000 03 14	703	2.0+	0.5−	2000 04 06	704	0.2−	0.4+

2000 EA₄₅ = 1998 VQ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	133.50275	(2000.0)	Williams				<i>P</i>	<i>Q</i>
<i>n</i>	0.29391834	ω	196.21760	+0.77228086	−0.63458146			
<i>a</i>	2.2403623	Ω	203.25163	+0.59092687	+0.73479596			
<i>e</i>	0.0693786	<i>i</i>	4.33068	+0.23321172	+0.23954388			
<i>P</i>	3.35	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 10 17	699	0.2−	0.2−	2000 03 09	704	0.4−	0.5+	2000 03 26	699	(0.3−	2.6+)
1998 10 17	699	0.2+	0.3+	2000 03 09	704	0.6−	1.2−	2000 03 26	699	0.5−	1.6+
1998 10 17	699	0.5+	0.1−	2000 03 09	704	0.2+	0.8−	2000 03 26	699	0.1−	1.1+
1998 11 10	704	0.9−	1.4−	2000 03 10	704	0.1+	0.1−	2000 04 05	704	0.1−	0.4−
1998 11 10	704	0.4+	1.0+	2000 03 10	704	0.0	0.8−	2000 04 05	704	0.0	0.8−
1998 11 10	704	0.9+	0.4−	2000 03 10	704	0.5−	1.3+	2000 04 05	704	0.4+	0.2−
1998 11 10	704	1.6−	0.3−	2000 03 11	704	0.2−	0.4+	2000 04 05	704	0.1−	0.4−
1998 11 11	704	(2.6+	0.6+)	2000 03 11	704	0.1+	0.1−	2000 04 05	704	0.2−	0.5−
1998 11 11	704	0.4+	0.5−	2000 03 11	704	0.3+	0.1−	2000 04 06	704	0.5+	0.1−
1998 11 11	704	0.3+	1.2+	2000 03 11	704	0.2+	0.3−	2000 04 06	704	0.4−	0.3−
2000 03 09	704	0.6+	0.3+	2000 03 11	704	0.8+	1.3+	2000 04 06	704	0.3+	0.1−
2000 03 09	704	0.3+	0.9−	2000 03 26	699	0.7−	0.3+	2000 04 06	704	0.1−	0.0

2000 EE₄₅ = 1999 CK₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	195.05928	(2000.0)	Williams				<i>P</i>	<i>Q</i>
<i>n</i>	0.19520420	ω	27.42853	+0.99383653	+0.10518896			
<i>a</i>	2.9431334	Ω	326.47668	−0.10972887	+0.88856427			
<i>e</i>	0.2235021	<i>i</i>	3.63237	−0.01576484	+0.44652975			
<i>P</i>	5.05	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1997 10 24	704	(1.6−	2.3+)	1999 02 13	704	0.5−	0.8−	2000 03 11	704	0.0	0.2+
1997 10 24	704	1.6−	0.8+	1999 02 13	704	0.3+	0.7+	2000 04 07	699	0.2+	0.7+
1997 10 24	704	0.9−	1.0+	2000 03 09	704	0.7−	0.3−	2000 04 07	699	0.3+	0.8+
1997 10 24	704	0.4+	0.4+	2000 03 09	704	0.0	0.3+	2000 04 07	699	0.6+	0.8+
1997 10 24	704	0.8−	0.7+	2000 03 09	704	0.2+	0.0	2000 04 07	704	0.5+	0.2−
1997 11 23	691	0.6+	0.2+	2000 03 09	704	0.2+	0.0	2000 04 07	699	0.4−	0.9+
1997 11 23	691	0.6+	0.1+	2000 03 09	704	0.1−	0.7+	2000 04 07	704	0.2−	0.7+
1997 11 23	691	0.7+	0.0	2000 03 10	704	0.3−	0.7−	2000 04 07	704	0.4−	0.6+

2000 APR. 18

M.P.C. 40147

1999 02 10	704	0.5−	0.4−	2000 03 10	704	0.3−	1.2−	2000 04 07	704	0.3+	0.4−
1999 02 10	704	0.7+	0.9+	2000 03 10	704	0.0	0.4−	2000 04 08	704	0.2+	1.3+
1999 02 10	704	0.4+	0.7−	2000 03 10	704	0.2−	0.6−	2000 04 08	704	0.6+	0.6+
1999 02 10	704	0.4−	0.7−	2000 03 10	704	(0.8−	2.2−)	2000 04 08	704	0.5+	1.0+
1999 02 10	704	0.4+	0.2−	2000 03 11	704	0.0	0.4−	2000 04 08	704	0.4+	0.3−
1999 02 13	704	1.5−	0.1+	2000 03 11	704	0.5+	0.7+	2000 04 08	704	0.4+	0.2−
1999 02 13	704	1.7+	1.7−	2000 03 11	704	0.1+	0.1−				
1999 02 13	704	1.4−	0.9+	2000 03 11	704	0.0	0.3−				

2000 EN₄₅ = 1976 SF₇ = 1999 CR₁₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	177.50336		(2000.0)	P	Q
<i>n</i>	0.18942980	<i>ω</i>	3.97731	+0.99499367	−0.09930234
<i>a</i>	3.0026440	<i>Ω</i>	1.83877	+0.07925683	+0.71547755
<i>e</i>	0.2744811	<i>i</i>	20.53147	+0.06087655	+0.69154242
<i>P</i>	5.20	<i>H</i>	12.0	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1976 09 25	095	0.8−	1.0+	2000 02 08	704	0.2−	0.5+	2000 03 26	699	0.4−	0.0
1993 12 17	691	1.5−	0.3+	2000 02 08	704	0.5+	1.7−	2000 04 07	699	0.5+	0.3−
1993 12 17	691	0.1+	0.2+	2000 02 08	704	0.8+	1.3−	2000 04 07	699	0.6+	0.3+
1993 12 17	691	0.5−	0.7+	2000 02 08	704	0.6−	0.2−	2000 04 07	699	0.5+	0.0
1997 08 05	910	0.3−	0.2+	2000 03 03	703	0.7−	0.5+	2000 04 07	704	0.0	0.4+
1997 08 05	910	0.3−	0.2+	2000 03 03	703	0.9−	0.1−	2000 04 07	699	0.4+	0.2−
1997 08 05	910	0.4−	0.3+	2000 03 03	703	0.9−	0.3+	2000 04 07	704	0.0	0.0
1998 12 30	699	1.2−	0.6−	2000 03 03	703	0.5−	0.6+	2000 04 07	704	0.3−	0.4+
1998 12 30	699	0.6−	0.5−	2000 03 09	704	0.0	0.2+	2000 04 07	704	0.5−	0.0
1998 12 30	699	0.4+	0.7+	2000 03 09	704	0.1+	0.1+	2000 04 07	704	0.2−	0.6+
1999 02 11	704	0.3+	1.1+	2000 03 09	704	0.1−	0.3+	2000 04 08	704	0.1−	0.2+
1999 02 11	704	0.2−	0.1+	2000 03 09	704	1.2+	0.3+	2000 04 08	704	0.3−	0.0
1999 02 11	704	0.1−	1.2−	2000 03 09	704	0.1−	0.2+	2000 04 08	704	0.8+	0.0
1999 02 11	704	0.4−	1.2+	2000 03 10	704	0.0	0.1+	2000 04 08	704	0.0	0.6+
1999 02 11	704	0.2−	0.9+	2000 03 10	704	0.1+	0.5+	2000 04 08	704	0.3−	0.3−
1999 02 18	704	0.2+	0.6+	2000 03 10	704	0.2+	0.2+	2000 04 10	704	0.3+	0.1+
1999 02 18	704	0.5+	0.1+	2000 03 10	704	0.2−	0.3+	2000 04 10	704	0.0	0.3+
1999 02 18	704	0.8+	0.5−	2000 03 10	704	0.3−	0.9+	2000 04 10	704	0.2−	0.2−
1999 02 18	704	1.7+	0.9−	2000 03 11	704	0.8+	0.5+	2000 04 10	704	0.3−	0.0
1999 02 18	704	0.5+	1.4−	2000 03 11	704	0.3+	0.6+	2000 04 10	704	0.4+	0.1+
2000 01 11	699	0.8+	0.5+	2000 03 11	704	(2.6+	0.6−)	2000 04 10	608	0.5+	2.0−
2000 01 11	699	0.1+	0.1+	2000 03 26	699	0.0	0.5+	2000 04 10	608	0.3+	1.6−
2000 01 11	699	0.2−	0.5+	2000 03 26	699	0.8−	0.1+	2000 04 10	608	0.6+	1.4−
2000 02 08	704	0.5+	0.0	2000 03 26	699	0.4−	0.1+				

2000 ET₄₅ = 1998 XQ₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	357.92627		(2000.0)	P	Q
<i>n</i>	0.19664712	<i>ω</i>	183.55015	−0.99806078	+0.06224694
<i>a</i>	2.9287187	<i>Ω</i>	0.01865	−0.05634093	−0.90329743
<i>e</i>	0.0552687	<i>i</i>	1.73032	−0.02646470	−0.42447505
<i>P</i>	5.01	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1995 03 28	691	0.6−	0.1−	2000 03 09	704	0.0	0.1+	2000 04 05	704	0.0	0.2−
1995 03 28	691	0.1+	0.5−	2000 03 09	704	0.5−	0.1+	2000 04 05	704	0.1+	0.1−
1995 03 28	691	0.0	0.6−	2000 03 09	704	0.1−	0.2−	2000 04 05	704	0.0	0.2−
1997 10 28	704	(0.0	4.1−)	2000 03 09	704	0.3−	0.3−	2000 04 05	704	0.0	0.2−
1997 10 28	704	1.1+	1.0−	2000 03 09	704	0.1−	0.0	2000 04 05	704	0.1+	0.0
1997 10 28	704	(0.2+	2.4−)	2000 03 10	704	0.4−	0.2+	2000 04 06	704	0.3+	0.0
1997 10 28	704	(1.3+	3.9−)	2000 03 10	704	0.1−	0.6+	2000 04 06	704	0.1+	0.2−
1997 10 28	704	(0.5+	5.0−)	2000 03 10	704	0.3−	0.5+	2000 04 06	704	0.1−	1.2−
1997 10 30	704	0.4−	0.8+	2000 03 10	704	0.1−	0.7+	2000 04 06	704	0.2+	0.2+
1997 10 30	704	0.9−	0.6−	2000 03 10	704	0.0	1.1+	2000 04 06	704	0.0	0.2+
1997 10 30	704	1.4+	0.0	2000 03 11	704	0.2−	0.1+	2000 04 07	699	0.1−	0.2−
1997 10 30	704	0.1−	0.4+	2000 03 11	704	0.0	0.1+	2000 04 07	699	0.1+	0.2+
1997 10 30	704	0.8−	0.5−	2000 03 11	704	0.3+	0.6+	2000 04 07	699	0.0	0.4+
1998 12 14	704	1.9+	0.1−	2000 03 11	704	0.4+	0.5+	2000 04 07	699	0.1−	0.1+

1998 12 14	704	0.1+	1.7+	2000 03 11	704	0.6+	0.9+	2000 04 08	704	0.1+	0.5−
1998 12 14	704	(2.8+	0.2−)	2000 03 27	699	0.3−	0.0	2000 04 08	704	0.1+	0.4+
1998 12 14	704	0.0	0.4+	2000 03 27	699	0.2−	0.1+	2000 04 08	704	0.2−	0.4−
1998 12 17	704	(2.2−	0.5−)	2000 03 27	699	0.3−	0.3−	2000 04 08	704	0.3+	0.4+
1998 12 17	704	0.9−	1.1−	2000 03 27	699	0.4−	0.1−	2000 04 08	704	0.3+	0.0
1998 12 17	704	1.0−	1.1−	2000 04 04	704	0.3+	0.1−	2000 04 10	704	0.0	0.1−
2000 03 01	703	0.1+	0.4−	2000 04 04	704	0.2+	0.0	2000 04 10	704	0.1−	0.0
2000 03 01	703	0.2−	0.2−	2000 04 04	704	0.0	0.0	2000 04 10	704	0.0	0.4−
2000 03 01	703	0.1+	0.1−	2000 04 04	704	0.0	0.3−	2000 04 10	704	0.3+	0.5+
2000 03 01	703	0.1+	0.2−	2000 04 04	704	0.2+	0.4−	2000 04 10	704	0.1+	0.3+

2000 EB₄₆ = 1998 SZ₁₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	121.97022		(2000.0)	P	Q
<i>n</i>	0.27621303	<i>ω</i>	60.73649	+0.66622475	−0.74533726
<i>a</i>	2.3351060	<i>Ω</i>	347.39205	+0.63863598	+0.58741455
<i>e</i>	0.1329528	<i>i</i>	6.53407	+0.38508269	+0.31530386
<i>P</i>	3.57	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.3+	0.1+	2000 03 09	704	0.6+	0.2+	2000 04 07	699	0.3−	0.3−
1998 09 26	704	0.2+	0.1−	2000 03 09	704	1.0−	0.2−	2000 04 07	699	1.3−	0.2−
1998 09 26	704	0.5−	0.2−	2000 03 10	704	0.1+	0.9+	2000 04 07	699	0.6−	0.3−
1998 09 26	704	0.9−	0.7−	2000 03 10	704	0.0	0.1+	2000 04 07	704	0.1+	0.1−
1998 09 26	704	0.6−	0.8+	2000 03 10	704	1.8+	0.2+	2000 04 07	699	0.2−	0.7−
1998 09 27	704	0.3+	0.2+	2000 03 10	704	1.8+	0.0	2000 04 07	704	0.2+	0.7+
1998 09 27	704	0.9−	0.1−	2000 03 11	704	0.3−	0.1−	2000 04 07	704	0.0	0.5+
1998 09 27	704	(1.7−	3.3+)	2000 03 11	704	0.7+	1.5+	2000 04 07	704	0.9+	1.4+
1998 09 27	704	(2.6−	1.1+)	2000 03 11	704	1.0−	0.0	2000 04 07	621	0.2−	0.2−
1998 10 11	699	0.1+	0.2+	2000 03 27	699	0.1−	0.2+	2000 04 07	621	0.1−	0.4−
1998 10 11	699	0.3+	0.2−	2000 03 27	699	0.5−	0.2+	2000 04 07	621	0.2−	0.3−
1998 10 11	699	0.1+	0.7+	2000 03 27	699	0.1−	0.1+	2000 04 08	704	1.0+	0.1−
1998 11 14	704	0.0	0.6+	2000 03 27	699	0.7−	0.1−	2000 04 08	704	0.6−	0.6+
1998 11 14	704	0.5+	0.0	2000 04 06	621	0.0	0.5−	2000 04 08	704	0.6+	0.5−
1998 11 14	704	0.1+	0.5−	2000 04 06	621	0.6−	0.1−	2000 04 08	704	0.5+	0.3−
1998 11 14	704	0.9+	0.6−	2000 04 06	621	0.3−	0.3−	2000 04 09	621	0.1−	0.2−
2000 03 09	704	0.0	0.3+	2000 04 06	621	0.0	0.3−	2000 04 09	621	0.2−	0.1−
2000 03 09	704	0.1−	0.8−	2000 04 06	621	0.2−	0.4−	2000 04 09	621	0.2+	0.1−
2000 03 09	704	0.4+	0.1+	2000 04 06	621	0.1−	0.4−				

2000 EC₄₆ = 1989 TA₁₃ = 1993 RY₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	286.60775		(2000.0)	P	Q
<i>n</i>	0.23628975	<i>ω</i>	72.13342	−0.11609239	+0.99197333
<i>a</i>	2.5912310	<i>Ω</i>	191.54974	−0.97943989	−0.12271487
<i>e</i>	0.0791858	<i>i</i>	14.49521	−0.16498505	+0.03049536
<i>P</i>	4.17	<i>H</i>	13.6	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 10 03	809	0.4+	0.5−	2000 03 09	704	0.1−	0.5−	2000 04 05	704	0.1+	0.1+
1989 10 03	809	0.7−	1.1−	2000 03 09	704	0.3−	0.5−	2000 04 05	704	0.0	0.0
1989 10 03	809	0.5+	0.6+	2000 03 10	704	0.3−	0.2−	2000 04 05	704	0.0	0.0
1993 09 15	809	(1.4+	4.3+)	2000 03 10	704	0.2+	0.4−	2000 04 06	704	0.1−	0.1+
1993 09 15	809	(0.1+	3.3+)	2000 03 10	704	0.3+	0.1+	2000 04 06	704	0.0	0.1−
1993 09 15	809	(1.2−	4.6+)	2000 03 10	704	0.6+	0.2−	2000 04 06	704	0.0	0.5+
1993 09 17	809	(2.3+	4.5+)	2000 03 10	704	0.5+	0.5+	2000 04 06	704	0.1+	0.3+
1993 09 17	809	(2.1+	3.3+)	2000 03 11	704	0.2+	0.2−	2000 04 06	704	0.0	0.3+
1993 09 17	809	(1.6+	3.9+)	2000 03 11	704	0.1−	0.3−	2000 04 07	699	0.3+	0.2+
1993 09 18	809	(1.2+	3.7+)	2000 03 11	704	0.5+	0.4+	2000 04 07	699	0.1−	0.2+
1993 09 18	809	(1.1+	3.8+)	2000 03 11	704	0.3+	0.4+	2000 04 07	699	0.0	0.4+
1993 09 18	809	(1.4+	3.0+)	2000 04 02	699	0.8−	0.6+	2000 04 07	699	0.1−	0.1+
1993 09 18	675	0.0	0.9+	2000 04 02	699	0.3−	0.2+	2000 04 08	704	0.9+	0.1+
1993 09 18	675	0.8−	0.3−	2000 04 02	699	0.2−	0.2+	2000 04 08	704	0.5+	0.8+
1993 09 22	675	0.1+	1.2+	2000 04 02	699	0.2−	0.5+	2000 04 08	704	0.7+	0.2+
1993 09 22	675	0.1+	1.1+	2000 04 04	704	0.6+	0.3+	2000 04 08	704	0.0	0.1+
1996 03 26	809	0.4−	1.2−	2000 04 04	704	0.1−	0.3+	2000 04 08	704	0.1−	0.6+

M.P.C. 40148

2000 APR. 18

1996 03 26	809	0.1−	0.5−	2000 04 04	704	0.1+	0.5+	2000 04 10	704	0.4−	0.1−
1996 03 26	809	0.3+	1.2−	2000 04 04	704	0.3−	0.0	2000 04 10	704	0.2−	0.1−
2000 03 09	704	0.0	0.0	2000 04 04	704	0.0	0.3+	2000 04 10	704	0.1−	0.5−
2000 03 09	704	0.2−	0.4−	2000 04 05	704	0.1−	0.1−	2000 04 10	704	0.1−	0.1−
2000 03 09	704	0.5−	0.0	2000 04 05	704	0.2−	0.0	2000 04 10	704	0.2−	0.3−

2000 ED₄₆ = 1991 RQ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.58516		(2000.0)		P		Q
<i>n</i>	0.18447727	<i>ω</i>	312.36301		+0.64906317		+0.76071049
<i>a</i>	3.0561463	<i>Ω</i>	358.07744		−0.63422544		+0.53671954
<i>e</i>	0.0982876	<i>i</i>	10.38110		−0.42008939		+0.36503655
<i>P</i>	5.34	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 09 15	675	0.5+	0.8−	2000 03 09	704	0.2−	0.2+	2000 03 27	699	0.2−	0.2−
1991 09 15	675	0.3−	0.2−	2000 03 09	704	0.0	0.4−	2000 03 27	699	0.3−	0.1−
1991 09 17	675	0.4+	0.8−	2000 03 09	704	0.1+	0.3+	2000 04 07	699	0.1−	0.1−
1991 09 17	675	0.9+	0.5−	2000 03 10	704	0.3+	0.6+	2000 04 07	699	0.3−	0.4+
1998 12 21	704	0.7−	0.1−	2000 03 10	704	0.2−	0.2−	2000 04 07	699	0.4−	0.4+
1998 12 21	704	0.3+	0.8−	2000 03 10	704	0.2+	0.6−	2000 04 07	704	0.7+	0.0
1998 12 21	704	(2.3−	2.1−)	2000 03 10	704	0.2+	0.4−	2000 04 07	699	0.1+	0.1−
1998 12 21	704	(4.8−	2.5+)	2000 03 10	704	0.7−	0.1+	2000 04 07	704	0.0	0.5−
2000 03 03	703	0.4−	0.3+	2000 03 11	704	0.2−	0.1−	2000 04 07	704	0.8+	0.2+
2000 03 03	703	1.1−	0.4−	2000 03 11	704	0.3+	0.2+	2000 04 07	704	0.3+	0.2+
2000 03 03	703	0.0	0.6−	2000 03 11	704	0.1−	0.2−	2000 04 07	704	1.0+	0.4+
2000 03 03	703	0.6−	0.0	2000 03 11	704	0.6+	0.4+	2000 04 08	704	0.4−	0.3−
2000 03 09	704	0.3+	0.3+	2000 03 27	699	0.0	0.0	2000 04 08	704	0.6−	1.3−
2000 03 09	704	0.1−	0.0	2000 03 27	699	0.5−	0.1−	2000 04 08	704	0.0	0.1−

2000 EF₄₆ = 1986 UK₄ = 1998 YA₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	62.63721		(2000.0)		P		Q
<i>n</i>	0.16975786	<i>ω</i>	111.31822		−0.25274441		−0.96751757
<i>a</i>	3.2303490	<i>Ω</i>	353.31464		+0.86934163		−0.22460484
<i>e</i>	0.1524403	<i>i</i>	2.69767		+0.42469448		−0.11602768
<i>P</i>	5.81	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 10 31	675	0.8−	1.1+	2000 03 04	703	0.3−	0.4−	2000 03 29	691	0.3−	0.2−
1986 10 31	675	0.4+	0.6+	2000 03 04	703	0.9−	1.3−	2000 03 29	691	0.3−	0.0
1986 11 05	675(17.3−	2.1+)		2000 03 04	703	1.3−	0.4−	2000 04 05	704	0.4+	0.5+
1986 11 05	675(17.2−	2.1+)		2000 03 09	704	0.3+	0.4+	2000 04 05	704	0.3+	0.2+
1996 08 14	608	0.1+	0.1−	2000 03 09	704	0.5+	0.6+	2000 04 05	704	0.2+	0.4+
1996 08 14	608	0.1+	0.7−	2000 03 09	704	0.7+	0.1+	2000 04 05	704	0.4+	0.2+
1998 12 16	704	0.2−	1.6−	2000 03 09	704	0.8+	1.1+	2000 04 05	704	0.4+	0.1+
1998 12 16	704	1.1+	0.4+	2000 03 09	704	0.1−	0.5+	2000 04 06	704	0.3+	0.4+
1998 12 16	704	(0.6−	2.7−)	2000 03 10	704	0.1−	0.1−	2000 04 06	704	0.4+	0.2+
1998 12 17	704	0.4−	0.5+	2000 03 10	704	0.9−	0.2−	2000 04 06	704	0.4+	0.2+
1998 12 17	704	(2.7−	1.0−)	2000 03 10	704	0.6+	0.0	2000 04 06	704	0.2+	0.4+
1998 12 17	704	0.1−	0.2+	2000 03 10	704	0.9+	0.4+	2000 04 07	704	1.0+	1.1+
1998 12 17	704	0.5−	0.9−	2000 03 10	704	1.1+	0.5+	2000 04 07	704	1.2+	0.1+
1999 01 16	704	0.1+	0.6+	2000 03 11	704	0.6−	0.1+	2000 04 07	704	0.3+	0.5−
1999 01 16	704	0.2−	0.4+	2000 03 11	704	0.8−	0.9+	2000 04 07	704	1.0+	0.0
1999 01 16	704	0.1+	0.8−	2000 03 11	704	1.2−	0.9−	2000 04 08	704	0.2+	0.1+
1999 01 16	704	0.9+	1.3+	2000 03 11	704	1.9−	1.5−	2000 04 08	704	0.2+	0.6+
1999 01 16	704	0.8−	1.3−	2000 03 11	704	1.6−	1.1−	2000 04 08	704	0.2+	0.8+
2000 03 04	703	1.2−	1.4−	2000 03 29	691	0.3−	0.4−	2000 04 08	704	0.3−	1.1−

2000 EG₄₆ = 4154 P-L = 1997 SG₂₀ = 1998 XH₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	333.05212		(2000.0)		P		Q
<i>n</i>	0.21276016	<i>ω</i>	212.92352		−0.83764991		+0.54620728
<i>a</i>	2.7789187	<i>Ω</i>	0.18579		−0.46304403		−0.70963941
<i>e</i>	0.0722581	<i>i</i>	8.63642		−0.28971168		−0.44505001
<i>P</i>	4.63	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1960 09 24	675	0.5−	1.1+	2000 03 04	703	0.5+	0.5−	2000 04 02	699	0.3−	0.5+
1960 09 25	675	0.8−	1.1+	2000 03 04	703	0.1−	0.4−	2000 04 02	699	0.4−	0.1+
1960 09 25	675	0.7−	0.0	2000 03 04	703	0.6+	1.4+	2000 04 02	699	0.2−	0.0
1960 09 26	675	0.2−	0.0	2000 03 09	704	0.4−	0.5+	2000 04 03	699	0.0	0.2+
1960 09 26	675	0.3−	0.2+	2000 03 09	704	0.1−	0.0	2000 04 03	699	0.2+	0.0
1960 09 28	675	0.3+	0.6+	2000 03 09	704	0.3−	0.3+	2000 04 03	699	0.0	0.4+
1960 09 28	675	0.4−	1.2+	2000 03 09	704	0.5+	0.2−	2000 04 03	699	0.8−	1.7+
1997 09 28	691	0.7−	0.7+	2000 03 09	704	0.1+	0.1−	2000 04 05	704	0.6−	0.3+
1997 09 28	691	0.5−	0.5+	2000 03 10	704	0.7+	1.1+	2000 04 05	704	0.5−	0.3−
1997 09 28	691	0.6−	0.6+	2000 03 10	704	0.6+	0.1+	2000 04 05	704	0.1−	0.1−
1997 10 03	691	0.3+	0.6+	2000 03 10	704	0.5+	0.8+	2000 04 05	704	0.4−	0.5−
1997 10 03	691	0.2−	0.2+	2000 03 10	704	0.6+	0.6+	2000 04 05	704	0.3−	0.6−
1997 10 03	691	0.3−	0.6+	2000 03 10	704	1.8+	1.3+	2000 04 06	704	0.4+	0.3+
1998 11 16	704	0.0	1.0−	2000 03 11	704	1.6+	0.0	2000 04 06	704	0.5+	0.0
1998 11 16	704	0.6+	1.5−	2000 03 11	704	(3.7−	0.1−)	2000 04 06	704	0.0	1.0−
1998 11 16	704	0.8+	0.5−	2000 03 11	704	1.5+	0.1+	2000 04 06	704	0.5+	0.5−
1998 11 16	704	(4.3−	2.0+)	2000 03 11	704	1.3−	0.3+	2000 04 07	704	0.8+	0.7−
1998 12 08	327	0.5+	0.2+	2000 03 11	704	0.7+	0.6+	2000 04 07	704	0.2+	0.3−
1998 12 08	327	0.9−	0.8+	2000 03 11	704	1.1−	0.1−	2000 04 07	704	1.0+	1.7−
1998 12 08	327	0.5−	0.1−	2000 03 27	699	0.1−	0.4+	2000 04 08	704	1.3−	0.1+
1998 12 09	327	0.0	0.7+	2000 03 27	699	0.1+	0.0	2000 04 08	704	0.1−	0.4+
1998 12 09	327	0.3−	0.6+	2000 03 27	699	0.2−	0.4+	2000 04 08	704	0.1+	0.2+
1998 12 09	327	0.1−	0.4+	2000 03 27	699	0.1−	0.4−	2000 04 08	704	0.5−	0.2+
2000 03 04	703	0.6−	0.7+	2000 04 02	699	0.0	0.3+	2000 04 08	704	0.6+	1.1+

2000 EK₄₆ = 1999 CE₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	55.15280		(2000.0)		P		Q
<i>n</i>	0.12400143	<i>ω</i>	123.35118		−0.37447069		−0.92720846
<i>a</i>	3.9827672	<i>Ω</i>	348.63307		+0.83758908		−0.33478638
<i>e</i>	0.1704344	<i>i</i>	2.17952		+0.39776405		−0.16793616
<i>P</i>	7.95	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 29	704	1.7−	1.9+	1999 02 13	704	0.7−	0.6+	2000 04 02	699	0.1−	0.2+
1997 10 29	704	1.4−	0.5+	1999 02 13	704	1.3+	0.1+	2000 04 02	699	0.0	0.5+
1997 10 29	704	(2.3−	0.6+)	1999 02 13	704	1.2−	0.3−	2000 04 02	699	0.3+	0.9−
1997 10 29	704	0.6−	1.0+	1999 02 23	699	1.4−	0.4+	2000 04 02	699	0.3−	0.9+
1997 10 29	704	1.4−	0.8+	1999 02 23	699	0.3−	0.9+	2000 04 05	704	0.8+	0.2+
1997 10 30	704	(0.4−	2.3+)	1999 02 23	699	0.8−	0.9+	2000 04 05	704	0.0	0.2+
1997 10 30	704	0.4−	0.7+	2000 03 03	703	0.4−	1.4−	2000 04 05	704	0.2+	0.2+
1997 10 30	704	0.1−	0.2−	2000 03 03	703	0.6+	0.9−	2000 04 05	704	0.5+	0.3+
1997 10 30	704	0.2+	0.8−	2000 03 03	703	0.3−	0.3−	2000 04 05	704	0.4+	0.5+
1997 10 31	704	0.3−	1.8+	2000 03 03	703	0.4+	0.0	2000 04 06	704	0.2+	0.4+
1997 10 31	704	0.4+	0.2−	2000 03 09	704	0.1−	0.4−	2000 04 06	704	0.2+	0.5+
1997 10 31	704	(0.7−	2.4+)	2000 03 09	704	0.2−	0.2−	2000 04 06	704	0.2−	0.3+
1997 10 31	704	0.3+	0.5+	2000 03 09	704	0.6+	0.7+	2000 04 06	704	0.3+	0.4+
1997 10 31	704	1.4−	1.5+	2000 03 09	704	0.9−	0.2−	2000 04 06	699	0.4−	0.8+
1997 11 06	704	1.4+	0.6−	2000 03 09	704	0.4+	1.1+	2000 04 06	704	0.5+	0.9+
1997 11 06	704	0.2−	0.1+	2000 03 10	704	0.5+	0.0	2000 04 06	699	0.1−	1.1+
1997 11 06	704	1.1+	0.5+	2000 03 10	704	0.7−	0.4+	2000 04 06	699	0.5−	0.8+
1997 11 06	704	0.1+	0.3−	2000 03 10	704	0.3+	0.4−	2000 04 06	699	0.2−	1.1+
1997 11 06	704	1.1+	1.9+	2000 03 10	704	0.4+	0.2−	2000 04 07	704	1.0+	0.0
1999 01 06	699	0.0	0.5−	2000 03 10	704	1.0−	0.4−	2000 04 07	704	0.9+	0.2+
1999 01 06	699	0.1+	0.5−	2000 03 11	704	0.1+	0.2+	2000 04 07	704	0.0	0.2+
1999 01 06	699	0.7−	0.1+	2000 03 11	704	0.1−	0.1+	2000 04 07	704	0.9+	1.5+
1999 01 19	704	0.4−	0.1−	2000 03 11	704	0.3−	0.0	2000 04 07	704	0.5+	0.3+

2000 APR. 18

M.P.C. 40149

1999 01 19	704	0.9+	1.8−	2000 03 11	704	0.1+	0.0	2000 04 08	704	0.2+	0.1−
1999 01 19	704	(1.3−	2.3+)	2000 03 11	704	0.1+	0.1+	2000 04 08	704	0.2+	0.8+
1999 01 19	704	1.2−	0.1−	2000 03 27	699	0.2+	0.2+	2000 04 08	704	0.7+	0.8+
1999 02 10	704	0.0	0.3−	2000 03 27	699	0.1+	0.0	2000 04 08	704	0.3+	0.1−
1999 02 10	704	1.7+	0.5+	2000 03 27	699	0.1−	0.1+	2000 04 08	704	0.1−	0.0
1999 02 10	704	0.2−	0.8−	2000 03 27	699	0.1−	0.5+	2000 04 10	704	1.3−	0.8−
1999 02 10	704	0.2+	1.7−	2000 03 30	691	0.5−	0.7−	2000 04 10	704	0.3+	0.5+
1999 02 13	704	0.4−	1.6−	2000 03 30	691	0.7−	0.8−	2000 04 10	704	0.7+	0.3+
1999 02 13	704	1.7+	0.8−	2000 03 30	691	0.5−	0.8−				

2000 EO₄₆ = 1997 PT₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23655331	<i>ω</i>	123.84379	−0.64560548	−0.76367040		
<i>a</i>	2.5893059	<i>Ω</i>	6.36760	+0.69749908	−0.59022144		
<i>e</i>	0.1013919	<i>i</i>	0.54084	+0.31094792	−0.26162220		
<i>P</i>	4.17	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 03 26	809	(10.6−	7.4+)	1999 01 06	910	0.6−	0.6+	2000 04 02	699	1.2−	0.0
1996 03 26	809	(11.9−	6.9+)	1999 01 06	910	0.3−	0.8+	2000 04 04	704	0.6−	0.3−
1996 03 26	809	(12.2−	6.6+)	2000 03 09	704	0.2+	0.0	2000 04 04	704	0.1+	0.3+
1997 08 01	691	0.5−	0.8+	2000 03 09	704	0.3+	0.5+	2000 04 04	704	0.1−	0.2+
1997 08 01	691	0.3−	0.8+	2000 03 09	704	1.1+	0.1−	2000 04 04	704	0.1+	0.2−
1997 08 01	691	0.4−	0.6+	2000 03 09	704	0.6+	0.5+	2000 04 04	704	0.4−	0.4−
1997 08 07	691	0.0	0.9+	2000 03 09	704	0.3+	0.5+	2000 04 05	704	0.1+	0.1−
1997 08 07	691	0.4−	0.9+	2000 03 10	704	0.1−	0.1−	2000 04 05	704	0.2+	0.0
1997 08 07	691	0.1+	0.9+	2000 03 10	704	0.1+	0.0	2000 04 05	704	0.1−	0.1−
1998 09 19	910	0.2−	0.2−	2000 03 10	704	0.5+	0.5+	2000 04 05	704	0.3+	0.3+
1998 09 19	910	0.3−	0.4+	2000 03 10	704	0.6+	1.0+	2000 04 05	704	0.6+	0.2+
1998 09 19	910	0.0	0.0	2000 03 10	704	1.0+	0.6+	2000 04 06	704	0.1+	0.1−
1998 11 11	704	0.2+	0.1−	2000 03 11	704	0.2+	0.2+	2000 04 06	704	0.3+	0.1−
1998 11 11	704	1.3+	0.2−	2000 03 11	704	0.3−	0.2+	2000 04 06	704	0.6+	0.3+
1998 11 11	704	0.9+	1.4+	2000 03 11	704	0.5+	0.3+	2000 04 06	704	0.3+	0.6+
1998 11 11	704	(0.3−	2.1+)	2000 03 11	704	0.2+	0.6+	2000 04 06	704	0.5+	0.1−
1998 11 19	691	0.4−	0.4−	2000 03 27	699	0.3−	0.2−	2000 04 07	699	0.3−	0.2−
1998 11 19	691	0.7−	0.5+	2000 03 27	699	1.2−	0.3−	2000 04 07	699	0.6−	0.4+
1998 11 19	691	0.5−	0.4−	2000 03 27	699	0.8−	0.2−	2000 04 07	699	0.3+	0.3+
1998 11 26	691	0.3−	0.4+	2000 03 27	699	1.1−	0.1−	2000 04 07	699	0.1−	0.2+
1998 11 26	691	0.3−	0.5+	2000 04 02	699	0.3−	0.0	2000 04 10	704	0.7+	0.6−
1998 11 26	691	0.3−	0.2+	2000 04 02	699	0.6−	0.4−	2000 04 10	704	1.0+	0.8+
1999 01 06	910	0.4−	0.4+	2000 04 02	699	0.2−	0.1−	2000 04 10	704	0.2+	1.1+

2000 EQ₄₆ = 1998 SG₁₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27127663	<i>ω</i>	320.85918	−0.72783172	−0.68574983		
<i>a</i>	2.3633486	<i>Ω</i>	175.84279	+0.63864292	−0.67933868		
<i>e</i>	0.1447330	<i>i</i>	2.25687	+0.24979233	−0.26123960		
<i>P</i>	3.63	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	0.4−	0.8+	2000 03 11	704	0.1−	0.0	2000 04 06	704	0.3+	0.6+
1998 09 26	704	1.0+	0.1+	2000 03 11	704	0.1−	0.3−	2000 04 06	704	0.3+	0.2+
1998 09 26	704	1.1−	1.2+	2000 03 11	704	0.1−	0.2+	2000 04 06	704	0.6+	0.2+
1998 09 27	704	1.3−	0.4+	2000 03 11	704	0.0	0.2+	2000 04 06	704	0.6+	0.2+
1998 09 27	704	1.6−	0.2+	2000 03 27	699	0.0	0.4+	2000 04 06	699	0.9−	0.5+
1998 09 27	704	0.3−	1.5+	2000 03 27	699	0.1+	0.3+	2000 04 06	699	1.0−	0.6+
1998 09 27	704	1.7+	1.5+	2000 03 27	699	0.1+	0.7+	2000 04 06	699	0.6−	0.5+
1998 10 10	699	0.3+	0.7+	2000 03 27	699	0.1+	0.2+	2000 04 06	699	1.1−	0.7+
1998 10 10	699	0.5−	0.3+	2000 04 02	699	0.0	0.2+	2000 04 07	699	0.5+	1.0+
1998 10 10	699	0.0	0.5−	2000 04 02	699	0.4−	0.1+	2000 04 07	699	0.5+	0.6+
2000 02 08	704	0.1+	0.2−	2000 04 02	699	0.2−	0.3+	2000 04 07	699	0.0	0.3+
2000 02 08	704	0.5+	1.0−	2000 04 02	699	0.6−	0.7+	2000 04 07	699	0.2+	0.7+
2000 02 08	704	0.2+	0.1+	2000 04 04	704	0.8+	0.3−	2000 04 10	704	0.6−	0.1+
2000 02 08	704	0.2+	0.2+	2000 04 04	704	0.2+	0.4−	2000 04 10	704	0.2+	0.5+

2000 03 09	704	0.9−	0.2+	2000 04 04	704	0.8−	0.3−	2000 04 10	704	0.6+	0.4+
2000 03 09	704	0.2−	0.2+	2000 04 04	704	0.1+	0.2−	2000 04 10	704	0.1+	0.8−
2000 03 09	704	0.3+	0.2+	2000 04 04	704	0.5−	0.3−	2000 04 10	704	0.2+	0.1−
2000 03 09	704	0.4+	0.0	2000 04 05	704	0.2+	0.3+	2000 04 10	704	0.5+	0.2−
2000 03 09	704	0.3+	0.5−	2000 04 05	704	0.2+	0.1+	2000 04 10	704	0.6+	0.5−
2000 03 10	704	0.1+	0.3−	2000 04 05	704	0.1+	0.2+	2000 04 10	704	0.2+	0.5−
2000 03 10	704	0.1+	0.1−	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.0	0.3−
2000 03 10	704	0.2+	0.3−	2000 04 05	704	0.4+	0.1−				
2000 03 10	704	0.4−	0.4−	2000 04 06	704	0.5+	0.2+				

2000 ES₄₆ = 1977 EA₉ = 1998 VS₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25832836	<i>ω</i>	243.40468	+0.41639427	−0.90917787		
<i>a</i>	2.4416757	<i>Ω</i>	181.99742	+0.86483379	+0.39722589		
<i>e</i>	0.1356119	<i>i</i>	5.56155	+0.28049659	+0.12492873		
<i>P</i>	3.82	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1977 03 14	381	2.0−	0.5+	2000 03 04	703	0.5−	0.6+	2000 04 04	704	0.3−	0.8−
1977 03 14	381	1.6+	1.8−	2000 03 04	703	0.1−	0.5+	2000 04 04	704	0.1+	0.1−
1994 09 12	691	0.1−	0.2−	2000 03 09	704	0.2−	0.1+	2000 04 04	704	0.4+	0.2+
1994 09 12	691	0.1+	0.1+	2000 03 09	704	1.3+	0.1−	2000 04 04	704	0.8+	0.3+
1994 09 12	691	0.2−	0.1+	2000 03 09	704	0.6+	0.3−	2000 04 04	704	0.2+	1.3+
1998 10 20	699	0.1+	0.6+	2000 03 09	704	0.8+	0.5+	2000 04 05	704	0.3+	0.1−
1998 10 20	699	1.2+	0.3+	2000 03 09	704	0.0	0.1+	2000 04 05	704	0.2−	0.0
1998 10 20	699	0.4+	0.6+	2000 03 10	704	0.0	0.4−	2000 04 05	704	0.3+	0.4+
1998 11 10	704	0.2−	0.2+	2000 03 10	704	0.5−	0.7−	2000 04 05	704	0.2−	0.3+
1998 11 10	704	0.3−	0.2−	2000 03 10	704	0.6−	0.8−	2000 04 05	704	0.1+	0.6+
1998 11 10	704	0.1+	0.3+	2000 03 10	704	0.6−	0.9−	2000 04 06	704	0.5−	0.1−
1998 11 10	704	0.4+	0.2+	2000 03 10	704	0.9−	1.3−	2000 04 06	704	0.3+	0.6+
1998 11 10	704	0.4+	0.5−	2000 03 11	704	1.1−	0.6+	2000 04 06	704	1.0+	0.0
1998 11 11	704	1.2−	0.1+	2000 03 11	704	0.1−	0.5+	2000 04 06	704	0.6+	0.1+
1998 11 11	704	0.5−	0.3+	2000 03 11	704	0.4−	0.4−	2000 04 10	704	0.3−	0.3+
1998 11 11	704	0.2+	0.2+	2000 03 11	704	1.3−	1.0−	2000 04 10	704	0.0	0.7+
1998 11 11	704	0.5−	0.6−	2000 03 27	699	0.3−	0.8+	2000 04 10	704	0.8+	0.4−
1998 11 11	704	0.4−	0.1−	2000 03 27	699	0.4+	0.4+	2000 04 10	704	0.0	0.1+
2000 03 04	703	0.2+	0.4−	2000 03 27	699	0.0	0.4+	2000 04 10	704	0.0	0.0
2000 03 04	703	0.3−	0.6+	2000 03 27	699	0.8+	0.6+				

2000 EV₄₆ = 1981 JQ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	240.87806		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.20324549	ω	67.13009	+0.62297799	+0.78207210
a	2.8649833	Ω	241.41390	−0.72427331	+0.56887819
e	0.0515172	i	1.05555	−0.29551075	+0.25444221
P	4.85	H	14.4	G 0.15	U 4

2000 EZ₄₆ = 1998 XE₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	138.88705		(2000.0)	P		Q	
<i>n</i>	0.23198251	ω	180.03414	+0.79764464	−0.60238796		
<i>a</i>	2.6232070	Ω	217.06013	+0.55337059	+0.75063537		
<i>e</i>	0.1246530	<i>i</i>	2.84027	+0.23988333	+0.27143192		
<i>P</i>	4.25	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1997 07 26	910	0.1+	0.5−	1998 12 22	704	0.2+	0.0
1997 07 26	910	0.1−	0.1−	1998 12 22	704	0.1−	0.5−
1997 07 26	910	0.2+	0.3−	1998 12 22	704	0.9+	0.0
1998 12 15	704	0.0	1.1+	1998 12 22	704	0.6+	1.0−
1998 12 15	704	0.6−	0.3−	2000 03 09	704	0.4−	0.6−
1998 12 15	704	0.0	0.2−	2000 03 09	704	0.6+	0.3−
1998 12 15	704	0.8−	1.3+	2000 03 09	704	0.4−	0.1+
1998 12 16	704	0.5−	0.3+	2000 03 10	704	1.1+	0.0
1998 12 16	704	0.4+	0.2−	2000 03 10	704	0.1+	0.3−
1998 12 16	704	0.4+	0.3−	2000 03 10	704	0.8+	0.8+
1998 12 16	704	0.4−	1.4−	2000 03 10	704	(3.1+	1.3+)
1998 12 22	704	0.1+	0.3+	2000 03 11	704	0.0	0.7−
				2000 03 11	704	0.6+	0.2−
				2000 03 11	704	0.3+	1.3+
				2000 04 05	704	0.2−	0.2−
				2000 04 05	704	0.0	0.4−
				2000 04 05	704	0.0	0.3+
				2000 04 05	704	1.0−	0.2−
				2000 04 05	704	0.6−	0.7−
				2000 04 06	704	0.3+	0.2+
				2000 04 06	704	0.4−	0.2+
				2000 04 06	704	0.5−	0.1+
				2000 04 06	704	0.4−	0.1−
				2000 04 06	704	0.1−	0.1+

2000 EB₄₇ = 1996 FU₄

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	176.53211		(2000.0)	P		Q	
<i>n</i>	0.23772307	ω	175.29646	+0.99172352	−0.11849081		
<i>a</i>	2.5808048	Ω	191.85588	+0.10854830	+0.97944573		
<i>e</i>	0.1118461	<i>i</i>	13.92464	+0.06856915	+0.16323601		
<i>P</i>	4.15	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1996 03 20	566	0.7+	0.4+	2000 03 09	704	0.1+	0.1+
1996 03 20	566	0.4+	0.5+	2000 03 10	704	0.3−	0.6−
1996 03 20	566	0.9+	0.3+	2000 03 10	704	0.2+	0.5+
1996 03 26	566	0.6−	0.5−	2000 03 10	704	0.2−	0.1+
1996 03 26	566	0.7−	0.2−	2000 03 10	704	0.0	0.0
1996 03 26	566	0.6−	0.6−	2000 03 10	704	0.1+	0.0
2000 03 04	703	0.2−	0.1+	2000 03 11	704	0.2−	0.1−
2000 03 04	703	0.5−	0.2−	2000 03 11	704	0.5+	0.0
2000 03 04	703	0.2+	0.5+	2000 03 11	704	0.6+	0.0
2000 03 04	703	0.3−	0.0	2000 03 11	704	0.4+	0.1−
2000 03 09	704	0.6−	0.1+	2000 03 30	691	0.4−	0.8−
2000 03 09	704	0.1−	0.4−	2000 03 30	691	0.3−	0.9−
2000 03 09	704	0.4−	0.1+	2000 03 30	691	0.4−	0.8−
2000 03 09	704	0.1−	0.1+	2000 04 02	699	0.2+	0.4+
				2000 04 02	699	0.5−	0.2+
				2000 04 02	699	0.3+	0.1+
				2000 04 02	699	0.2−	0.2−
				2000 04 05	704	0.2−	0.5−
				2000 04 05	704	0.3+	0.0
				2000 04 05	704	0.1+	0.0
				2000 04 05	704	0.3+	0.4+
				2000 04 05	704	0.2+	0.4+
				2000 04 06	704	0.5+	0.1+
				2000 04 06	704	0.1+	0.5+
				2000 04 06	704	0.7+	0.4+
				2000 04 06	704	0.2+	0.7+
				2000 04 06	704	0.4−	0.4−

2000 EC₄₇ = 1997 UU₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	46.48723		(2000.0)	P		Q	
<i>n</i>	0.17604055	ω	122.15290	−0.65291280	−0.75730845		
<i>a</i>	3.1530262	Ω	8.64897	+0.66052702	−0.57816330		
<i>e</i>	0.0848143	<i>i</i>	5.24240	+0.37068710	−0.30366283		
<i>P</i>	5.60	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1997 10 23	691	0.1−	0.4+	2000 03 10	704	0.5+	1.0+
1997 10 23	691	0.0	0.3+	2000 03 10	704	0.3+	0.7+
1997 10 23	691	0.1+	0.1+	2000 03 10	704	0.4+	0.2−
1997 10 30	704	1.1+	1.5−	2000 03 10	704	0.9−	0.8+
1997 10 30	704	0.4−	0.6+	2000 03 11	704	0.3+	0.1+
1997 10 30	704	1.0−	0.1−	2000 03 11	704	0.1+	0.4+
1997 10 30	704	(5.3−	0.7+)	2000 03 11	704	0.2+	0.1+
1997 11 01	691	0.1+	0.1+	2000 03 11	704	0.2+	0.8+
1997 11 01	691	0.0	0.1−	2000 03 27	699	0.0	0.2+
				2000 04 05	704	0.2+	0.4−
				2000 04 05	691	0.3−	0.3−
				2000 04 05	691	0.4−	0.2−
				2000 04 05	691	0.7−	0.2−
				2000 04 05	691	0.5−	0.1−
				2000 04 05	691	0.7−	0.2−
				2000 04 05	691	0.6−	0.3−
				2000 04 05	691	0.4−	0.3−
				2000 04 05	691	0.5+	0.2−

1997 11 01	691	0.2+	0.1+	2000 03 27	699	0.3−	0.3+	2000 04 06	704	0.3+	0.1−
2000 03 04	703	0.3+	0.1+	2000 03 27	699	0.5−	0.1−	2000 04 06	699	0.4+	0.0
2000 03 04	703	0.3+	0.8+	2000 03 27	699	0.7−	1.0−	2000 04 06	704	0.3+	0.4+
2000 03 04	703	0.4−	0.4−	2000 03 29	691	0.5−	0.8−	2000 04 08	704	0.2−	0.3−
2000 03 04	703	0.2+	0.7−	2000 03 29	691	0.6−	0.8−	2000 04 08	704	0.6+	1.2+
2000 03 09	704	0.0	0.4−	2000 03 29	691	0.4−	0.7−	2000 04 08	704	0.6+	0.2+
2000 03 09	704	0.3−	0.3−	2000 04 05	704	0.2+	0.3+	2000 04 08	704	0.3+	0.1−
2000 03 09	704	0.1−	0.6−	2000 04 05	704	0.4+	0.1−	2000 04 11	691	0.6−	0.5+
2000 03 09	704	0.1−	0.3−	2000 04 05	704	0.2+	0.6−	2000 04 11	691	0.8−	0.7+
2000 03 09	704	0.7−	0.4−	2000 04 05	691	0.4−	0.3−	2000 04 11	691	0.6−	0.3+
2000 03 10	704	0.3+	0.0	2000 04 05	704	0.5+	0.2−				

2000 ED₄₇ = 1998 XT₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	60.69637		(2000.0)	P		Q	
<i>n</i>	0.17718458	ω	287.63069	−0.39447282	−0.91884115		
<i>a</i>	3.1394394	Ω	185.63946	+0.87995997	−0.37426163		
<i>e</i>	0.1061401	<i>i</i>	6.45718	+0.26469159	−0.12513662		
<i>P</i>	5.56	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1994 03 14	675	0.4−	1.5−	2000 03 10	704	0.7−	0.1+
1994 03 14	675	0.3−	1.3−	2000 03 10	704	0.6−	0.1+
1998 12 15	704	0.1−	0.6−	2000 03 10	704	1.0−	0.9+
1998 12 15	704	0.3+	0.2−	2000 03 11	704	0.2+	0.1+
1998 12 15	704	0.1+	0.7−	2000 03 11	704	0.3+	0.6+
1998 12 15	704	0.2+	1.2+	2000 03 11	704	0.1+	0.5+
1998 12 15	704	0.8−	0.4+	2000 03 11	704	0.3+	0.2+
1998 12 22	704	0.7+	0.4−	2000 04 02	691	0.4+	0.2−
1998 12 22	704	(0.9−	2.3−)	2000 04 02	691	0.2+	0.7−
1998 12 22	704	0.2+	1.3−	2000 04 02	691	0.8+	1.1−
1998 12 22	704	0.2+	0.3+	2000 04 02	699	0.4−	0.0
1998 12 22	704	0.2−	0.2+	2000 04 02	699	0.3−	0.0
1999 01 18	704	0.1+	0.3−	2000 04 02	699	0.1−	0.1+
1999 01 18	704	1.4+	1.6+	2000 04 02	699	0.5−	0.3−
1999 01 18	704	0.2+	0.9−	2000 04 03	699	0.1+	0.1−
1999 01 18	704	0.6−	1.0+	2000 04 03	699	0.2−	0.0
1999 01 18	704	1.7−	0.9+	2000 04 03	699	0.1−	0.0
2000 03 04	703	0.4−	0.0	2000 04 03	691	0.4−	0.4−
2000 03 04	703	0.1−	0.1−	2000 04 03	691	0.3−	0.4−
2000 03 04	703	0.5+	0.4+	2000 04 03	691	0.4−	0.4−
2000 03 04	703	0.3−	0.4+	2000 04 03	699	0.5−	0.2−
2000 03 09	704	0.3+	0.1+	2000 04 04	704	0.7+	0.5+
2000 03 09	704	0.1+	0.4+	2000 04 04	704	0.4+	0.2+
2000 03 09	704	0.4+	0.5+	2000 04 04	704	0.4+	0.4+
2000 03 09	704	0.1+	0.5+	2000 04 04	704	0.0	0.2−
2000 03 09	704	0.0	0.2+	2000 04 04	704	0.8+	0.6+
2000 03 10	704	0.3+	0.2+	2000 04 05	704	0.4+	0.3+
2000 03 10	704	0.6−	0.3+	2000 04 05	704	0.4+	0.3+

2000 EH₄₇ = 1989 EH₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	107.05402		(2000.0)	P		Q					
n	0.18601293	ω	241.16245	+0.40851367	−0.91262632						
a	3.0393027	Ω	184.80212	+0.88778629		+0.40114270					
e	0.1240391	i	10.43221	+0.21201909		+0.07872562					
P	5.30	H	13.7	G	0.15	U	2				
Residuals in seconds of arc											
1989 03 02	413	0.5+	0.4−	2000 03 11	704	0.3+	0.9−	2000 04 06	704	0.5+	0.6−
1989 03 02	413	0.6−	0.1−	2000 03 11	704	0.1−	0.0	2000 04 06	699	0.4−	0.4+
1989 03 04	413	0.1−	0.3−	2000 03 11	704	0.2+	0.1+	2000 04 06	704	0.0	0.2−
1995 03 26	691	0.0	0.3−	2000 03 11	704	0.1+	0.7−	2000 04 06	699	0.8−	0.1+
1995 03 26	691	0.0	0.4−	2000 03 27	699	0.3−	0.2+	2000 04 06	704	0.0	0.2−
1995 03 26	691	0.0	0.5−	2000 03 27	699	0.6+	0.3+	2000 04 06	699	0.6−	0.1+
1998 12 15	704	1.0+	0.4−	2000 03 27	699	0.2−	0.5+	2000 04 06	704	0.2+	0.0

2000 APR. 18

M.P.C. 40151

1998 12 15	704	0.0	0.9+	2000 03 27	699	0.1−	0.1−	2000 04 07	699	0.5+	0.1+
1998 12 15	704	0.1+	0.7+	2000 04 02	699	0.4−	0.7−	2000 04 07	699	0.6−	0.1−
1998 12 15	704	0.6+	1.2−	2000 04 02	699	1.2−	0.7+	2000 04 07	704	1.1+	0.9+
1998 12 15	704	1.7−	0.0	2000 04 02	699	0.1−	0.1−	2000 04 07	699	1.2−	1.2+
2000 03 04	703	0.2−	0.9+	2000 04 02	699	0.9+	0.4+	2000 04 07	704	0.5+	0.5−
2000 03 04	703	0.5+	0.8−	2000 04 03	699	0.2−	0.5−	2000 04 07	699	0.7−	0.9+
2000 03 04	703	0.4+	0.3+	2000 04 03	699	0.2−	0.2−	2000 04 07	704	0.5+	0.0
2000 03 04	703	0.8+	0.9+	2000 04 03	699	0.7−	0.0	2000 04 07	704	0.4+	0.8−
2000 03 09	704	0.3−	0.7−	2000 04 03	699	0.4+	0.2−	2000 04 08	704	0.5−	0.2+
2000 03 09	704	0.0	0.7+	2000 04 05	704	0.5+	0.1+	2000 04 08	704	0.6+	1.3−
2000 03 09	704	0.2−	0.4+	2000 04 05	704	0.4+	0.1+	2000 04 08	704	(1.2+	2.8−)
2000 03 09	704	0.4+	1.0+	2000 04 05	704	0.2+	0.1−	2000 04 10	704	0.3+	0.1+
2000 03 10	704	0.2−	0.5−	2000 04 05	704	0.4+	0.4−	2000 04 10	704	0.6−	0.4+
2000 03 10	704	0.6+	0.7+	2000 04 05	704	0.1−	0.0	2000 04 10	704	0.0	0.1−
2000 03 10	704	0.9+	0.1+	2000 04 06	699	0.3−	0.4+	2000 04 10	704	0.4−	0.1+
2000 03 10	704	0.8−	0.4+	2000 04 06	704	0.4−	0.3−	2000 04 10	704	0.2−	0.5−

2000 EK₄₇ = 1998 XV₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	104.67056	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21547178	ω	40.65292	+0.51472528	−0.85694981		
<i>a</i>	2.7555552	Ω	18.41594	+0.76340119	+0.44410740		
<i>e</i>	0.2147695	<i>i</i>	4.78658	+0.39022623	+0.26154472		
<i>P</i>	4.57	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3+	1.8+	2000 03 10	704	0.7+	0.4+	2000 04 04	704	0.3+	0.4−
1998 11 10	704	1.1−	1.3−	2000 03 10	704	0.5+	0.9+	2000 04 04	704	1.2+	0.7+
1998 11 10	704	1.0+	0.9+	2000 03 10	704	1.2+	0.8+	2000 04 04	704	0.5+	0.3+
1998 11 10	704	0.7−	1.7−	2000 03 11	688	0.1−	0.4−	2000 04 05	704	0.1+	0.1−
1998 11 10	704	0.3+	0.2+	2000 03 11	688	0.3+	0.2+	2000 04 05	704	0.2−	0.4+
1998 12 14	704	0.3+	0.0	2000 03 11	688	0.0	0.0	2000 04 05	704	0.1−	0.4+
1998 12 14	704	0.8−	0.5+	2000 03 11	688	0.5−	0.0	2000 04 05	704	0.2+	0.4+
1998 12 14	704	0.5+	0.7−	2000 03 11	704	0.8−	0.1−	2000 04 05	704	0.1+	0.5+
1998 12 14	704	1.0+	0.1−	2000 03 11	704	1.0−	0.9−	2000 04 06	704	(2.5−	0.7+)
1998 12 14	704	0.4−	0.6−	2000 03 11	704	1.7−	1.4−	2000 04 06	699	0.3+	0.5−
1998 12 17	704	0.2−	0.0	2000 03 11	704	1.5−	1.8−	2000 04 06	704	0.0	0.4+
1998 12 17	704	0.5−	0.0	2000 03 12	688	0.3+	0.1+	2000 04 06	699	0.2−	0.1+
1998 12 17	704	0.6+	0.0	2000 03 12	688	0.7+	0.2−	2000 04 06	699	0.3+	0.0
1998 12 17	704	0.1−	0.2+	2000 03 12	688	0.2+	0.2+	2000 04 06	704	0.6+	0.7−
1998 12 17	704	0.1+	0.6+	2000 03 14	688	0.3+	0.4+	2000 04 06	704	0.1−	0.8−
2000 03 09	704	0.4−	0.5+	2000 03 14	688	0.1−	0.4+	2000 04 06	699	0.1+	0.1+
2000 03 09	704	0.4+	0.4+	2000 04 03	699	0.4−	0.4+	2000 04 10	704	0.3−	0.2+
2000 03 09	704	0.8+	0.4+	2000 04 03	699	0.5−	0.3−	2000 04 10	704	0.5−	0.3−
2000 03 09	704	0.3+	0.0	2000 04 03	699	0.6−	0.2−	2000 04 10	704	0.4−	0.8−
2000 03 09	704	0.8+	0.2+	2000 04 03	699	0.3−	0.4+	2000 04 10	704	0.3−	0.1−
2000 03 10	704	0.2+	0.1−	2000 04 04	704	0.0	0.4−	2000 04 10	704	0.1−	0.2−
2000 03 10	704	0.1−	0.2+	2000 04 04	704	0.4−	0.2+				

2000 EM₄₇ = 1979 QU₅ = 1994 TZ₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	350.03351	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.26943119	ω	15.67580	−0.97734198	+0.21159268		
<i>a</i>	2.3741280	Ω	176.52534	−0.20275602	−0.92829841		
<i>e</i>	0.0554362	<i>i</i>	5.28742	−0.06076720	−0.30576233		
<i>P</i>	3.66	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1979 08 30	809	0.6+	1.6−	2000 03 24	294	1.1+	1.9−	2000 04 07	860	0.6+	0.0
1979 08 30	809	0.3+	1.6−	2000 03 25	294	0.7−	0.6+	2000 04 07	704	0.2−	0.2−
1994 10 04	691	0.0	0.9+	2000 03 25	294	0.6−	2.0−	2000 04 07	704	0.0	0.0
1994 10 04	691	0.1−	0.9+	2000 04 02	699	0.6−	0.2−	2000 04 07	704	0.1+	0.2−
1994 10 13	691	0.2−	0.3+	2000 04 02	699	0.3−	0.0	2000 04 07	704	0.2+	0.2−
1994 10 13	691	0.1−	0.4+	2000 04 02	699	0.3−	0.4+	2000 04 07	704	0.5−	0.9−
1994 10 13	691	0.3−	0.2−	2000 04 02	699	1.0−	0.2+	2000 04 08	704	0.0	0.3+
1998 12 11	699	0.9+	1.7−	2000 04 03	699	0.7−	0.0	2000 04 08	704	0.5+	0.9+

1998 12 11	699	0.4−	0.7−	2000 04 03	699	0.7−	0.2+	2000 04 08	704	0.8+	0.4−
1998 12 11	699	0.1+	0.4−	2000 04 03	699	0.5−	0.6+	2000 04 08	704	0.7+	1.1+
2000 03 09	704	0.1−	0.4−	2000 04 03	699	0.5−	0.2−	2000 04 08	704	1.1+	0.1−
2000 03 09	704	0.3+	0.0	2000 04 04	704	0.7+	0.2−	2000 04 10	704	0.1+	0.2−
2000 03 09	704	0.2+	0.6+	2000 04 04	704	0.7−	0.3−	2000 04 10	704	0.4+	0.3+
2000 03 09	704	0.4+	0.0	2000 04 04	704	0.5−	0.8−	2000 04 10	704	0.5+	0.6−
2000 03 09	704	0.2−	0.3+	2000 04 04	704	0.5−	1.1−	2000 04 10	704	0.0	1.9+
2000 03 10	704	0.1−	0.2−	2000 04 05	704	0.4−	0.1+	2000 04 10	704	0.8+	0.3+
2000 03 10	704	0.1−	0.4−	2000 04 05	704	0.3−	0.1+	2000 04 10	704	0.9+	0.5+
2000 03 10	704	0.1−	0.5−	2000 04 05	704	0.4−	0.0	2000 04 10	704	0.8+	0.6−
2000 03 10	704	0.1+	0.1+	2000 04 05	704	0.3−	0.1+	2000 04 10	704	0.3−	0.1+
2000 03 10	704	0.2+	0.0	2000 04 05	704	0.5−	0.0	2000 04 10	704	0.6+	1.1−
2000 03 24	294	0.1−	0.6+	2000 04 07	860	0.3+	0.2+	2000 04 10	704	0.6−	1.4+

2000 ET₄₇ = 1972 XQ = 1983 VA₂ = 1992 CA₅ = 1998 XW₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	157.98884	(2000.0)		<i>P</i>	<i>Q</i>		
<i>n</i>	0.26609639	ω	27.66207	+0.93797645	−0.34654253		
<i>a</i>	2.3939224	Ω	352.59113	+0.30130959	+0.82966928		
<i>e</i>	0.2055725	<i>i</i>	4.63250	+0.17150135	+0.43767244		
<i>P</i>	3.70	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1972 12 02	095	2.0−	0.6−	1998 12 17	704	0.1+	1.3+	2000 03 27	699	0.5−	0.2+
1972 12 06	095	1.2+	0.6−	1998 12 17	704	0.2+	0.3+	2000 03 27	699	1.0−	0.5+
1983 11 06	026	(3.0−	0.9+)	1998 12 17	704	1.1+	1.0−	2000 03 27	699	1.2−	0.1+
1983 11 08	026	1.2+	0.9+	1998 12 17	704	0.4+	0.8−	2000 04 02	699	1.2+	0.1−
1983 11 09	026	(3.2−	0.4+)	1998 12 17	704	1.4+	1.1−	2000 04 02	699	0.7+	0.0
1992 02 05	372	(4.8−	2.9+)	1999 01 08	704	(0.1+	2.6+)	2000 04 02	699	0.8+	0.5−
1992 02 05	372	(5.6−	4.5+)	1999 01 08	704	(2.4+	2.4+)	2000 04 02	699	0.1+	0.8+
1992 02 09	691	0.3+	0.1+	1999 01 08	704	(0.4+	2.1+)	2000 04 03	699	0.2+	0.1−
1992 02 09	691	0.6+	0.1−	1999 01 08	704	0.9−	0.8+	2000 04 03	699	0.3−	0.1+
1996 02 15	691	0.1−	0.1+	2000 03 09	704	0.2+	1.4+	2000 04 03	699	0.4+	0.6−
1996 02 15	691	0.1−	0.1−	2000 03 09	704	0.0	0.0	2000 04 03	699	0.5+	0.4−
1996 02 15	691	0.0	0.0	2000 03 09	704	0.6−	0.5−	2000 04 06	699	0.1+	0.6−
1996 03 20	566	0.1+	0.4−	2000 03 09	704	0.7+	1.2+	2000 04 06	699	0.2+	0.2−
1996 03 20	566	0.2+	0.3−	2000 03 09	704	0.0	0.2+	2000 04 06	699	0.1−	0.1−
1996 03 20	566	0.5+	0.2+	2000 03 10	704	0.1−	0.5+	2000 04 06	699	0.6−	0.4−
1998 08 31	704	1.8−	1.2+	2000 03 10	704	0.0	0.4−	2000 04 07	704	0.0	0.1−
1998 08 31	704	0.6+	1.0−	2000 03 10	704	0.1+	0.6−	2000 04 07	704	1.2−	0.9+
1998 08 31	704	1.2−	0.3−	2000 03 10	704	1.0+	1.2+	2000 04 07	704	0.3−	0.1+
1998 08 31	704	0.1−	0.3+	2000 03 10	704	(1.3+	2.0+)	2000 04 07	704	0.3−	0.9−
1998 08 31	704	1.0−	1.4+	2000 03 11	704	0.2−	0.3−	2000 04 07	704	1.1+	0.8+
1998 12 14	704	0.2−	0.5+	2000 03 11	704	0.4−	0.1−	2000 04 08	704	0.0	0.1+
1998 12 14	704	0.1−	0.0	2000 03 11	704	0.3−	0.4−	2000 04 08	704	0.5+	0.4−
1998 12 14	704	1.0−	1.0−	2000 03 11	704	1.3−	0.2−	2000 04 08	704	0.6+	0.2−
1998 12 14	704	0.3−	1.0+	2000 03 27	699	1.1−	0.5+				

M.P.C. 40152

2000 APR. 18

1997 10 30	704	0.1+	0.9+	2000 03 09	704	0.6−	0.2+	2000 04 07	704	1.2+	0.2+
1997 10 30	704	0.1+	0.6−	2000 03 09	704	0.3−	0.0	2000 04 07	704	0.3−	0.4+
1998 11 15	699	0.8−	0.7−	2000 03 09	704	0.1+	0.7+	2000 04 07	704	0.1−	0.3+
1998 11 15	699	0.3+	0.2−	2000 03 10	704	0.2+	0.0	2000 04 07	704	0.3+	0.4−
1998 11 15	699	0.1−	0.2+	2000 03 10	704	0.2+	0.1+	2000 04 08	704	0.4+	0.4−
1998 12 17	704	0.8+	0.8−	2000 03 10	704	0.1+	0.2+	2000 04 08	704	0.2+	0.1−
1998 12 17	704	0.2−	2.0−	2000 03 10	704	0.5+	0.5+	2000 04 08	704	0.2+	0.3+
1998 12 17	704	0.7−	0.6−	2000 03 10	704	0.1−	0.0	2000 04 08	704	0.4+	0.1−
1998 12 17	704	0.4+	0.8−	2000 03 27	699	0.3−	0.0	2000 04 10	691	0.4−	1.7−
1998 12 17	704	0.6+	0.9−	2000 03 27	699	0.3−	0.2+	2000 04 10	691	0.3−	1.6−
1999 01 16	704	0.4−	0.1−	2000 03 27	699	0.2−	0.3−	2000 04 10	704	0.1−	1.1+
1999 01 16	704	0.4−	0.2+	2000 03 27	699	0.5−	0.0	2000 04 10	704	0.4+	0.1−
1999 01 16	704	0.2−	0.7+	2000 04 02	699	0.8−	0.2−	2000 04 10	691	0.4−	1.7−
1999 01 16	704	0.0	0.4+	2000 04 02	699	0.7−	0.0	2000 04 10	704	0.7+	0.3+
1999 01 16	704	0.6+	1.0−	2000 04 02	699	0.4−	0.3−	2000 04 10	704	0.4+	0.5+
1999 01 19	704	0.1+	0.3+	2000 04 02	699	0.5−	0.5−				
1999 01 19	704	0.1−	0.6+	2000 04 05	704	0.4+	0.3−				

2000 EY₄₇ = 1998 VY₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	6.96756		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.26536617	ω	341.79614	-0.99207997	-0.12493004		
a	2.3983120	Ω	191.05147	$+0.12203165$	-0.93405230		
e	0.0980509	i	3.89814	$+0.02975931$	-0.33457253		
P	3.71	H	13.8	G	0.15	U	3

Residuals in seconds of arc

1998 10 18	699	1.2+	1.1−	2000 03 09	704	0.5−	0.5+	2000 04 07	704	0.4−	0.1+
1998 10 18	699	(1.7+	3.1−)	2000 03 10	704	0.5+	0.3−	2000 04 07	704	0.2−	0.4+
1998 10 18	699	(2.5+	3.5−)	2000 03 10	704	0.0	0.2+	2000 04 07	704	0.3−	0.3+
1998 11 10	704	0.1−	0.0	2000 03 10	704	0.8+	0.4+	2000 04 07	704	0.1−	0.4+
1998 11 10	704	0.3−	0.5+	2000 03 10	704	0.2+	0.8+	2000 04 08	704	0.2−	0.0
1998 11 10	704	0.2+	0.1−	2000 03 10	704	0.1−	1.0+	2000 04 08	704	0.3−	0.3+
1998 11 10	704	0.7−	0.1+	2000 03 29	691	0.1−	0.1−	2000 04 08	704	0.4−	0.2−
1998 11 10	704	0.7+	0.7−	2000 03 29	691	0.2−	0.2−	2000 04 08	704	0.1−	0.2+
1998 11 11	704	0.1−	0.3+	2000 03 29	691	0.2−	0.1−	2000 04 08	704	0.6−	0.5−
1998 11 11	704	1.0+	0.5+	2000 04 02	699	0.6−	0.1−	2000 04 10	704	0.2+	0.4−
1998 11 11	704	0.2+	0.2−	2000 04 02	699	0.8−	0.2−	2000 04 10	704	0.5+	0.3+
1998 11 11	704	0.7−	0.2−	2000 04 02	699	0.4−	0.0	2000 04 10	704	0.3+	0.3+
1998 11 11	704	0.4−	0.1+	2000 04 02	699	0.6−	0.1−	2000 04 10	704	0.2+	0.4−
1998 11 24	699	0.2−	0.2−	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.5+	0.3+
1998 11 24	699	0.3−	0.3+	2000 04 05	704	0.6+	0.1−	2000 04 10	704	0.3+	0.3+
1998 11 24	699	0.2−	0.2−	2000 04 05	704	0.2+	0.3−	2000 04 10	704	0.5+	0.2−
2000 01 11	699	0.6−	0.8+	2000 04 05	691	0.2−	0.3−	2000 04 10	704	0.6+	0.4+
2000 01 11	699	0.1−	0.5−	2000 04 05	704	0.1+	1.0−	2000 04 10	704	0.3+	0.0
2000 01 11	699	0.3+	0.1+	2000 04 05	704	0.1−	0.5−	2000 04 10	704	0.2+	0.4−
2000 02 02	704	0.4+	0.4−	2000 04 05	691	0.2−	0.5−	2000 04 10	704	0.3+	0.2+
2000 02 02	704	0.3+	0.2+	2000 04 05	691	0.2−	0.5−	2000 04 10	704	0.6+	0.4+
2000 02 02	704	0.1+	0.0	2000 04 06	704	0.3−	0.1+	2000 04 10	704	0.2+	0.8−
2000 03 09	704	0.0	0.4−	2000 04 06	704	0.5−	0.0	2000 04 10	704	0.5+	0.2+
2000 03 09	704	0.0	0.3−	2000 04 06	704	0.3−	0.3−	2000 04 10	704	0.4+	0.1+
2000 03 09	704	0.1+	0.1−	2000 04 06	704	0.4−	0.4−				
2000 03 09	704	0.2−	0.1+	2000 04 07	704	0.3−	0.5+				

2000 EZ₄₇ = 1998 XE₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	52.04615		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.18579683	ω	130.65746	-0.59344213	-0.80487452		
a	3.0416589	Ω	355.74294	$+0.73071102$	-0.53779105		
e	0.0803722	i	1.43251	$+0.33747273$	-0.25091390		
P	5.30	H	13.6	G	0.15	U	4

Residuals in seconds of arc

1998 12 14	704	0.2+	0.0	2000 03 09	704	0.0	0.0	2000 04 07	704	0.3+	0.7+
1998 12 14	704	0.2+	1.2−	2000 03 10	704	0.2−	0.6−	2000 04 07	704	0.9+	0.2+
1998 12 14	704	0.8+	0.6+	2000 03 10	704	0.1+	0.4+	2000 04 07	704	1.1+	0.9+

1998 12 14	704	0.1+	1.5+	2000 03 10	704	0.9−	0.1+	2000 04 07	704	0.2+	0.1+
1998 12 17	704	1.7−	0.5−	2000 03 10	704	0.4+	0.3−	2000 04 07	704	(2.2+	0.4−)
1998 12 17	704	0.5+	0.7−	2000 03 10	704	0.1+	1.4+	2000 04 08	704	0.6+	0.1+
1998 12 17	704	1.2−	1.1−	2000 04 02	699	0.3−	0.1−	2000 04 08	704	0.1−	0.7−
1998 12 17	704	1.0+	0.5+	2000 04 02	699	0.4+	0.1+	2000 04 08	704	0.4+	0.5+
1998 12 17	704	0.5+	0.1−	2000 04 02	699	0.3−	0.3+	2000 04 08	704	0.3+	0.1−
1999 01 16	704	0.2−	0.5+	2000 04 02	699	0.1−	0.2−	2000 04 08	691	0.0	0.5−
1999 01 16	704	0.1+	1.8+	2000 04 05	691	0.6−	0.2−	2000 04 08	704	0.5−	1.1+
1999 01 16	704	(0.1+	2.4+)	2000 04 05	691	0.6−	0.2−	2000 04 08	691	0.1−	0.5−
1999 01 16	704	0.5−	1.3−	2000 04 05	691	0.6−	0.3−	2000 04 08	691	0.0	0.4−
2000 03 03	688	0.2−	0.7−	2000 04 05	704	0.4+	0.1+	2000 04 10	704	0.7−	0.7+
2000 03 03	688	0.1−	0.7−	2000 04 05	704	0.8+	0.0	2000 04 10	704	0.2+	0.2+
2000 03 04	703	0.4+	0.5−	2000 04 05	704	0.3+	0.0	2000 04 10	704	0.3−	0.8+
2000 03 04	703	0.6−	0.3−	2000 04 05	704	0.6+	0.5−	2000 04 10	704	0.2+	0.5+
2000 03 04	703	0.5+	1.4+	2000 04 05	704	0.2+	0.3−	2000 04 10	704	0.4−	0.3−
2000 03 04	703	0.1+	0.1−	2000 04 06	704	0.1+	0.1+	2000 04 11	691	0.3−	0.3−
2000 03 09	704	0.3−	0.7−	2000 04 06	704	0.4−	0.1+	2000 04 11	691	0.2−	0.4−
2000 03 09	704	0.0	0.3−	2000 04 06	704	0.0	0.1−	2000 04 11	691	0.1−	0.1−
2000 03 09	704	1.0−	0.3+	2000 04 06	704	0.3−	0.1+				
2000 03 09	704	0.0	0.4−	2000 04 06	704	0.2+	0.5−				

2000 EB₄₈ = 1998 XX₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	303.19485		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.29466781	ω	56.54643	-0.36016682	$+0.93285759$		
a	2.2365619	Ω	192.34991	-0.86715529	-0.33775088		
e	0.1057759	i	2.01527	-0.34397901	-0.12530385		
P	3.34	H	16.6	G	0.15	U	4

Residuals in seconds of arc

1994 09 09	691	0.1−	0.4+	2000 03 09	704	0.8−	0.2−	2000 04 06	699	0.2−	0.0
1994 09 09	691	0.2−	0.3+	2000 03 10	704	0.7−	1.2−	2000 04 06	699	0.1−	0.6+
1994 09 09	691	0.0	0.3+	2000 03 10	704	0.7+	0.4+	2000 04 07	704	1.0−	0.9−
1998 11 23	691	0.1+	0.3+	2000 03 10	704	0.2−	0.4−	2000 04 07	704	0.1+	0.9+
1998 11 23	691	0.1−	0.2+	2000 03 10	704	1.3+	0.2−	2000 04 07	704	1.1−	0.9+
1998 11 23	691	0.3+	0.1−	2000 04 05	704	0.2−	0.2−	2000 04 07	704	1.2+	1.4+
1998 12 08	691	0.2+	0.3+	2000 04 05	704	0.2+	0.3−	2000 04 10	704	0.0	1.1+
1998 12 08	691	0.0	0.1−	2000 04 05	704	0.5+	0.2+	2000 04 10	704	0.7−	0.6+
1998 12 08	691	0.2+	0.1+	2000 04 05	691	0.4−	0.2−	2000 04 10	704	0.9+	0.2+
1998 12 13	691	0.5−	0.2+	2000 04 05	704	0.9+	0.3−	2000 04 10	704	1.3+	0.9+
1998 12 13	691	0.1−	0.3+	2000 04 05	704	0.6−	0.4−	2000 04 12	691	0.2−	0.4−
1998 12 13	691	0.6−	0.2+	2000 04 05	691	0.4−	0.3−	2000 04 12	691	0.2−	0.6−
2000 03 09	704	0.1−	0.6−	2000 04 05	691	0.4−	0.3−	2000 04 12	691	0.1−	0.4−
2000 03 09	704	0.2−	0.2−	2000 04 06	699	0.1+	0.7+				
2000 03 09	704	1.3+	0.2+	2000 04 06	699	0.2−	0.2+				

2000 EC₄₈ = 1952 QC = 1981 UY₆ = 1989 UD₃ = 1993 TA₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	234.50656		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.24136277	ω	142.66946	+0.84936855	+0.52779465
a	2.5547938	Ω	185.47562	-0.49016529	+0.78709363
e	0.2036413	i	1.45481	-0.19573208	+0.31924352
P	4.08	H	14.0	G 0.15	U 2

2000 APR. 18

M.P.C. 40153

1993 09 24	095	0.2−	0.8+	2000 04 02	699	0.1−	0.0	2000 04 08	704	0.1−	0.9−
1993 10 10	809	(3.2+	5.8+)	2000 04 02	699	0.7+	0.4+	2000 04 08	704	1.0−	0.7−
1993 10 10	809	(2.5+	5.4+)	2000 04 05	704	0.1+	0.1+	2000 04 10	704	(2.1+	0.7−)
1993 10 10	809	(0.9+	4.9+)	2000 04 05	704	0.4+	0.2+	2000 04 10	704	0.0	0.0
1993 10 22	809	(2.4+	4.7+)	2000 04 05	704	0.1−	0.1−	2000 04 10	704	1.1+	0.1−
1993 10 22	809	(1.5+	4.8+)	2000 04 05	691	0.0	0.5−	2000 04 10	704	0.7+	0.2+
1993 10 22	809	(0.6+	4.9+)	2000 04 05	704	0.2+	0.2−	2000 04 10	704	1.3+	0.4−
2000 03 04	703	0.2−	0.1+	2000 04 05	704	0.0	0.5−	2000 04 10	704	0.8+	0.1+
2000 03 04	703	0.5−	0.1−	2000 04 05	691	0.1+	0.5−	2000 04 10	704	1.2+	0.5+
2000 03 04	703	0.1−	0.3+	2000 04 05	691	0.2−	0.5−	2000 04 10	704	1.8+	0.7−
2000 03 04	703	1.9−	0.6−	2000 04 06	699	0.7−	0.5+	2000 04 10	704	0.6+	0.1−
2000 03 09	704	1.1−	0.8−	2000 04 06	704	0.2−	0.3−	2000 04 10	704	0.8+	0.2+
2000 03 09	704	0.2+	0.4+	2000 04 06	699	0.9−	0.7+	2000 04 12	691	0.1−	0.3−
2000 03 09	704	0.1−	0.5+	2000 04 06	704	0.1−	0.2−	2000 04 12	691	0.1−	0.1−
2000 03 09	704	0.2+	1.3+	2000 04 06	704	0.0	0.1−	2000 04 12	691	0.0	0.2−

2000 ED₄₈ = 1998 XV₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	150.46460	(2000.0)	Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23751548	ω	200.33430		+0.88252194		−0.46956192	
<i>a</i>	2.5823084	Ω	187.82207		+0.45342810		+0.86419236	
<i>e</i>	0.1709237	<i>i</i>	10.93596		+0.12473167		+0.18078486	
<i>P</i>	4.15	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.6+	0.8−	2000 03 27	699	0.5−	0.2+	2000 04 05	704	0.3−	0.2+
1998 12 15	704	0.1+	0.8+	2000 03 27	699	0.1−	1.1+	2000 04 05	704	0.2+	0.2+
1998 12 15	704	0.9−	0.7+	2000 04 02	699	0.7+	0.2+	2000 04 05	704	0.3−	0.0
1998 12 15	704	0.8−	0.5−	2000 04 02	699	0.4−	0.1+	2000 04 06	699	0.5−	0.6+
1998 12 22	704	0.5−	1.2−	2000 04 02	699	1.0−	0.3+	2000 04 06	704	0.4+	0.8−
1998 12 22	704	0.6+	1.4+	2000 04 02	699	(2.3+	0.4+)	2000 04 06	704	0.3+	0.2+
1998 12 22	704	0.9+	0.4−	2000 04 03	699	0.1−	0.3−	2000 04 06	699	0.2+	0.3−
2000 03 09	704	0.7+	1.1−	2000 04 03	699	0.1+	0.2−	2000 04 06	704	0.3+	0.8+
2000 03 09	704	0.0	0.6−	2000 04 03	699	0.0	0.2−	2000 04 06	699	0.4−	0.5+
2000 03 09	704	0.5−	0.6−	2000 04 03	699	0.5+	0.3+	2000 04 06	704	0.4+	0.2+
2000 03 09	704	0.7+	0.0	2000 04 04	704	0.2−	0.4+	2000 04 06	699	0.4−	0.6−
2000 03 10	704	0.7+	0.1+	2000 04 04	704	0.8−	0.5−	2000 04 06	704	0.7+	0.4−
2000 03 10	704	0.3+	1.2+	2000 04 04	704	0.2−	0.2−	2000 04 10	704	0.4+	0.8+
2000 03 10	704	0.5+	0.6+	2000 04 04	704	0.4−	0.3−	2000 04 10	704	1.1+	0.5−
2000 03 10	704	0.9−	0.8−	2000 04 04	704	0.5+	0.5−	2000 04 10	704	0.7+	0.3−
2000 03 27	699	0.1−	0.1+	2000 04 05	704	0.1+	0.1−	2000 04 10	704	1.1−	0.3−
2000 03 27	699	1.0−	0.6+	2000 04 05	704	0.2−	0.2−				

2000 EO₄₈ = 1998 XE₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	331.45978	(2000.0)	Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.23234688	ω	201.61166		−0.80531493		+0.59197207	
<i>a</i>	2.6204637	Ω	14.82004		−0.52381637		−0.68505670	
<i>e</i>	0.0517961	<i>i</i>	7.23231		−0.27764054		−0.42457789	
<i>P</i>	4.24	<i>H</i>	13.8		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 22	566	0.2−	0.3−	2000 03 10	704	0.3−	0.0	2000 04 06	704	0.3+	0.2+
1996 05 22	566	0.3−	0.0	2000 03 10	704	0.6−	0.4−	2000 04 06	704	0.5+	0.3+
1996 05 22	566	0.2+	0.4−	2000 03 10	704	1.4−	0.4+	2000 04 06	704	0.4+	0.2+
1998 12 14	704	0.1−	0.7−	2000 03 27	691	0.5−	0.3−	2000 04 06	704	0.4+	0.3+
1998 12 14	704	1.2+	0.2−	2000 03 27	691	0.7−	0.3−	2000 04 07	704	0.3+	0.1+
1998 12 14	704	1.8−	0.5−	2000 03 27	691	0.8−	0.1−	2000 04 07	704	0.3+	0.1+
1998 12 14	704	1.0−	1.1+	2000 03 29	691	0.3−	0.1+	2000 04 07	704	0.2−	0.5+
1998 12 14	704	0.0	0.0	2000 03 29	691	0.2−	0.0	2000 04 07	704	0.5+	0.2+
1998 12 17	704	0.0	0.7−	2000 03 29	691	0.2−	0.1+	2000 04 07	704	0.6+	0.3−
1998 12 17	704	0.1−	0.6−	2000 04 02	699	0.7−	0.3+	2000 04 08	704	0.0	0.3+
1998 12 17	704	0.1+	0.1+	2000 04 02	699	0.8−	0.1−	2000 04 08	704	0.1+	0.4+
1998 12 17	704	1.1+	0.9+	2000 04 02	699	0.4−	0.0	2000 04 08	704	0.4+	0.1+
1998 12 17	704	0.6+	0.4+	2000 04 02	699	0.1−	0.1−	2000 04 08	704	0.3+	0.4+
2000 03 04	703	0.4−	0.5+	2000 04 03	699	0.3+	0.3+	2000 04 08	704	0.3+	0.8+

2000 03 04	703	0.4−	0.1+	2000 04 03	699	0.5+	0.0	2000 04 08	691	0.3−	0.7−
2000 03 04	703	0.1+	0.5−	2000 04 03	699	0.2+	0.0	2000 04 08	691	0.4−	0.6−
2000 03 04	703	0.2−	0.1−	2000 04 03	699	0.4+	0.3+	2000 04 08	691	0.5−	0.6−
2000 03 06	608	0.1+	0.4−	2000 04 05	691	0.2−	0.0	2000 04 10	704	0.1+	0.1−
2000 03 06	608	0.0	0.8−	2000 04 05	691	0.3−	0.0	2000 04 10	704	0.5+	0.2+
2000 03 06	608	0.2−	0.4−	2000 04 05	691	0.3−	0.1+	2000 04 10	704	0.6+	0.1−
2000 03 09	704	0.7+	0.1−	2000 04 05	704	0.6+	0.0	2000 04 10	704	0.0	0.1−
2000 03 09	704	0.5+	0.2+	2000 04 05	704	0.6+	0.0	2000 04 10	704	0.7+	0.3+
2000 03 09	704	0.2+	0.1+	2000 04 05	704	0.3+	0.1−	2000 04 11	691	0.7−	0.2−
2000 03 09	704	0.2+	0.2+	2000 04 05	704	0.8+	0.1−	2000 04 11	691	0.6−	0.2−
2000 03 09	704	0.3−	0.2+	2000 04 05	704	0.2−	0.3−	2000 04 11	691	0.7−	0.0
2000 03 10	704	0.4+	0.3−	2000 04 06	704	0.6+	0.4+				

2000 EQ₄₈ = 1993 OS₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	307.06861	(2000.0)	Williams		<i>P</i>		<i>Q</i>	
<i>n</i>	0.26218108	ω	36.80247		−0.35018132		+0.93662272	
<i>a</i>	2.4176967	Ω	212.70288		−0.86396721		−0.32731990	
<i>e</i>	0.1386926	<i>i</i>	1.11696		−0.36184763		−0.12489821	
<i>P</i>	3.76	<i>H</i>	15.1		<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 07 19	809	0.2+	0.7+	2000 03 25	691	1.1−	0.1−	2000 04 07	704	0.3+	0.2−
1993 07 19	809	0.2−	0.4−	2000 03 27	691	0.1−	0.2−	2000 04 07	704	0.4+	0.3+
1993 07 19	809	1.0−	0.2−	2000 03 27	691	0.2−	0.0	2000 04 07	704	0.2+	0.3+
1993 07 23	809	0.1+	1.7+	2000 03 27	691	0.4−	0.1−	2000 04 07	704	0.1+	0.1−
1993 07 23	809	1.4+	1.4+	2000 03 27	699	0.5−	0.2+	2000 04 07	704	0.9+	0.2−
1993 07 23	809	0.1−	1.1+	2000 03 27	699	0.3−	0.1+	2000 04 08	704	0.1−	0.1+
1993 07 26	809	0.3−	1.1−	2000 03 27	699	0.2−	0.1+	2000 04 08	704	0.5+	0.2+
1993 07 26	809	0.1−	0.5−	2000 03 27	699	0.2−	0.5+	2000 04 08	704	0.3+	0.1−
1993 07 26	809	0.4−	0.7−	2000 04 05	691	0.7−	0.5−	2000 04 08	704	0.5−	0.4−
1997 08 12	691	0.4+	1.5−	2000 04 05	691	0.6−	0.3−	2000 04 08	691	0.4−	0.7−
1997 08 12	691	0.6+	1.1−	2000 04 05	691	0.5−	0.4−	2000 04 08	704	0.7+	0.2+
1997 08 12	691	(1.3+	3.0−)	2000 04 05	704	0.6+	0.2−	2000 04 08	691	0.4−	0.7−
2000 03 09	704	0.6+	0.3−	2000 04 05	704	0.5+	0.1+	2000 04 08	691	0.4−	0.8−
2000 03 09	704	1.2+	0.1−	2000 04 05	704	0.6+	0.1−	2000 04 10	704	0.2+	0.1−
2000 03 09	704	0.3−	0.1+	2000 04 05	688	0.4+	0.2−	2000 04 10	704	0.2+	0.0
2000 03 09	704	0.1+	0.9+	2000 04 05	704	0.4+	0.3+	2000 04 10	704	0.4−	0.3+
2000 03 10	704	0.8+	0.2−	2000 04 05	704	0.4+	0.3+	2000 04 10	704	0.1−	0.1−
2000 03 10	704	0.3+	0.1+	2000 04 05	688	0.1+	0.1+	2000 04 10	704	0.5−	0.0
2000 03 10	704	0.0	0.1+	2000 04 06	704	0.2+	0.2+	2000 04 11	691	0.6−	0.5−
2000 03 10	704	0.1+	0.2−	2000 04 06	704	0.6+	0.0	2000 04 11	691	0.8−	0.5−
2000 03 10	704	0.9−	0.3−	2000 04 06	704	0.5+	0.6+	2000 04 11	691	0.7−	0.6−
2000 03 25	691	1.0−	0.2−	2000 04 06	704	0.4+	0.6+				
2000 03 25	691	1.1−	0.0	2000 04 06	704	0.8+	1.1+				

2000 ER₄₉ = 1984 WH₅ = 1998 XR₃₀

Epoch 2000

1998 11 24	704	0.7+	0.9+	2000 03 10	704	1.0+	0.1-	2000 04 04	688	0.0	0.5-
1998 11 24	704	(0.6+	2.2+)	2000 03 10	704	0.1-	0.6-	2000 04 08	704	1.1+	0.7+
1998 12 14	704	0.7-	0.2+	2000 03 10	704	1.0+	1.2-	2000 04 08	704	0.4+	0.5-
1998 12 14	704	0.1+	0.7-	2000 03 12	703	0.4-	0.0	2000 04 08	704	0.4-	0.2+
1998 12 14	704	0.1-	1.1-	2000 03 12	703	0.2-	0.1+	2000 04 08	704	0.4-	0.3-

2000 ES₄₉ = 1989 SC₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	60.69891	(2000.0)		P	Q		
<i>n</i>	0.22899067	ω	105.68326	-0.30378733	-0.95270754		
<i>a</i>	2.6460062	Ω	2.05238	+0.76848798	-0.24989839		
<i>e</i>	0.1434519	<i>i</i>	12.65930	+0.56315138	-0.17291367		
<i>P</i>	4.30	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 09 30	809	1.5+	0.5-	1998 12 09	704	(2.2-	1.4-)	2000 04 06	699	0.1-	0.1+
1989 09 30	809	1.5+	0.5-	2000 02 08	704	1.0-	0.4+	2000 04 06	699	0.2+	0.0
1989 09 30	809	1.7+	0.4-	2000 02 08	704	0.7-	0.3+	2000 04 06	699	0.1+	0.1-
1989 10 01	809	1.6-	0.3+	2000 02 08	704	0.1-	1.2-	2000 04 06	699	0.2+	0.3+
1989 10 01	809	1.5-	0.4+	2000 03 04	703	0.4+	0.5-	2000 04 07	704	0.4+	0.6-
1989 10 01	809	1.3-	0.3+	2000 03 04	703	1.0-	0.4+	2000 04 07	704	0.1+	0.5-
1998 11 14	704	0.5-	0.0	2000 03 04	703	0.1+	0.5-	2000 04 07	704	0.5+	0.7-
1998 11 14	704	0.2+	0.3-	2000 03 04	703	0.1+	0.2+	2000 04 07	704	0.3+	0.5-
1998 11 14	704	0.5+	0.1-	2000 03 09	704	0.2-	0.4+	2000 04 07	704	1.1+	1.2-
1998 11 14	704	0.4+	0.8-	2000 03 09	704	1.0-	0.7-	2000 04 08	704	0.1-	1.0-
1998 11 14	704	(4.8-	0.7+)	2000 03 09	704	0.1+	0.1-	2000 04 08	704	0.2+	0.0
1998 11 16	704	0.3-	0.4+	2000 03 10	704	0.3+	0.2+	2000 04 08	704	0.5+	1.1+
1998 11 16	704	0.2-	0.1+	2000 03 10	704	0.2-	0.4+	2000 04 08	704	0.1-	0.3-
1998 11 16	704	(0.7+	2.2+)	2000 03 10	704	0.4-	0.1+	2000 04 08	704	0.2+	0.6+
1998 11 16	704	1.3+	0.3+	2000 03 10	704	0.1-	0.1+	2000 04 10	704	0.6-	0.2-
1998 11 16	704	(2.8-	0.6+)	2000 03 10	704	0.4+	0.7+	2000 04 10	704	0.4+	0.5+
1998 12 09	704	(0.4+	2.6+)	2000 04 02	699	0.6-	0.9+	2000 04 10	704	0.2-	0.1-
1998 12 09	704	0.3-	0.3+	2000 04 02	699	0.6-	0.5+	2000 04 10	704	0.5+	0.3-
1998 12 09	704	(0.9-	2.6+)	2000 04 02	699	0.1-	0.0	2000 04 10	704	0.4+	0.4+
1998 12 09	704	1.5-	0.3+	2000 04 02	699	0.0	0.1+				

2000 EU₄₉ = 1981 JH₄ = 1995 DF₁₂ = 1997 TK₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	1.27912	(2000.0)		P	Q		
<i>n</i>	0.20522589	ω	202.70285	-0.99885297	+0.04588129		
<i>a</i>	2.8465224	Ω	339.91242	-0.03547614	-0.90125805		
<i>e</i>	0.1539772	<i>i</i>	2.28582	-0.03215877	-0.43084664		
<i>P</i>	4.80	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 05 08	675	0.5-	1.1-	1998 12 17	704	0.4+	0.2-	2000 04 02	699	0.3-	0.0
1981 05 09	675	0.9+	0.0	1998 12 17	704	0.1+	0.7+	2000 04 02	699	0.5-	0.2+
1995 02 25	098	(1.2-	5.5+)	1998 12 17	704	0.7+	0.1-	2000 04 02	699	1.0-	0.3+
1995 02 25	098	(0.8+	4.0+)	1999 01 11	704	0.9-	0.5+	2000 04 05	704	0.3+	0.2+
1995 02 26	098	0.9-	1.3+	1999 01 11	704	0.0	1.4-	2000 04 05	704	0.4+	0.1-
1995 02 26	098	0.8+	0.3-	1999 01 11	704	(1.7-	2.7+)	2000 04 05	704	0.2+	0.4+
1995 02 27	098	1.2-	0.4-	1999 01 11	704	(5.6-	0.9-)	2000 04 05	704	0.2+	0.7+
1995 02 27	098	0.6-	0.3+	2000 01 11	699	0.8+	0.8+	2000 04 05	704	0.3+	0.8+
1995 03 02	691	0.6-	0.3-	2000 01 11	699	0.4-	0.5+	2000 04 07	704	0.1+	0.1+
1995 03 02	691	0.4-	0.4-	2000 01 11	699	0.2+	1.3+	2000 04 07	704	0.2+	0.2+
1995 03 02	691	0.1-	0.1+	2000 02 02	704	0.1+	0.2-	2000 04 07	704	0.0	0.2+
1995 03 27	691	0.9+	0.0	2000 02 02	704	1.1+	0.1+	2000 04 07	704	0.6+	0.4-
1995 03 27	691	0.3-	0.4-	2000 02 02	704	1.5+	0.2-	2000 04 07	704	0.2+	0.3+
1997 10 05	691	0.6-	0.4+	2000 03 09	704	0.3+	0.2-	2000 04 10	704	0.2+	0.3+
1997 10 05	691	0.3-	0.2+	2000 03 09	704	0.3+	0.8-	2000 04 10	704	0.0	0.2+
1997 10 05	691	0.9-	0.4+	2000 03 09	704	0.8-	0.3-	2000 04 10	704	0.1+	0.5+
1997 10 10	691	0.3-	0.3+	2000 03 10	704	0.7+	0.2-	2000 04 10	704	0.1+	0.4+
1997 10 10	691	0.2-	0.3+	2000 03 10	704	0.1-	0.4-	2000 04 10	704	0.2+	0.6+
1997 10 10	691	0.3-	0.4+	2000 03 10	704	0.2-	0.5-	2000 04 12	691	0.0	0.1-
1998 12 17	704	0.6+	1.2+	2000 03 10	704	0.8-	0.4-	2000 04 12	691	0.1+	0.2-
1998 12 17	704	0.8+	0.4-	2000 04 02	699	0.2-	0.1-	2000 04 12	691	0.1+	0.2-

2000 EY₄₉ = 1998 WP₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	8.85006	(2000.0)		P	Q		
<i>n</i>	0.22262847	ω	124.37018	-0.95423592	-0.29766927		
<i>a</i>	2.6961802	Ω	38.33474	+0.25690123	-0.86515219		
<i>e</i>	0.0827758	<i>i</i>	2.65712	+0.15308678	-0.40361453		
<i>P</i>	4.43	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 05 13	566	0.2+	0.8-	2000 03 10	704	0.1+	0.5+	2000 03 26	699	0.3-	0.3+
1996 05 13	566	0.2-	0.4-	2000 03 10	704	0.5+	0.6+	2000 03 26	699	0.6-	1.1+
1996 05 13	566	0.5-	0.5-	2000 03 10	704	0.8+	0.8+	2000 03 26	699	0.1-	0.9+
1998 11 19	704	0.1+	0.5-	2000 03 10	704	0.9+	0.0	2000 04 05	704	0.2+	0.0
1998 11 19	704	0.9-	1.6+	2000 03 10	120	0.3-	0.5-	2000 04 05	704	0.4+	0.1-
1998 11 19	704	0.8-	0.1+	2000 03 10	120	1.4+	0.1+	2000 04 05	704	0.3+	0.3+
1998 11 19	704	0.1+	1.4-	2000 03 11	120	0.0	0.4+	2000 04 05	704	0.7+	0.1+
1998 11 21	704	0.4-	0.1+	2000 03 11	704	0.1-	0.4+	2000 04 05	704	0.3-	0.2-
1998 11 21	704	0.4+	0.1+	2000 03 11	704	0.2+	0.2+	2000 04 05	704	0.4+	0.1-
1998 11 21	704	0.9-	0.8+	2000 03 11	704	0.6+	0.4+	2000 04 05	704	0.4+	0.2+
1998 11 21	704	1.0+	1.5-	2000 03 11	704	0.6+	0.7+	2000 04 05	704	0.3+	0.1-
1998 11 25	699	1.4+	0.9+	2000 03 11	704	0.4+	0.4+	2000 04 06	704	0.5+	0.3+
1998 11 25	699	0.5+	0.7-	2000 03 13	120	0.4-	0.8+	2000 04 06	691	0.1-	0.6+
1998 11 25	699	0.2-	0.6-	2000 03 13	120	0.4-	0.6-	2000 04 06	704	0.1+	0.1+
2000 02 27	703	1.1+	0.2+	2000 03 14	120	0.5-	0.8-	2000 04 06	691	0.3-	0.6+
2000 02 27	703	0.2-	0.1-	2000 03 14	703	0.6-	0.2-	2000 04 06	704	0.0	0.1-
2000 02 27	703	0.6+	0.1-	2000 03 14	703	0.2-	0.1+	2000 04 06	691	0.5-	0.4+
2000 02 27	703	1.0-	0.3+	2000 03 14	703	0.8-	0.4-	2000 04 06	704	0.3+	1.0-
2000 03 06	120	0.4-	1.2-	2000 03 14	703	0.5-	0.3-	2000 04 10	704	0.3-	0.0
2000 03 06	120	1.1-	1.0-	2000 03 15	120	0.3-	1.1-	2000 04 10	704	0.3+	0.1-
2000 03 06	120	0.6-	1.2-	2000 03 15	120	0.8+	0.4-	2000 04 10	704	0.3-	0.2-
2000 03 06	120	0.2+	1.1-	2000 03 16	120	0.9-	0.5-	2000 04 10	704	0.2+	0.5+
2000 03 10	704	0.0	0.3+	2000 03 26	699	1.2-	0.6+	2000 04 10	704	0.4+	0.2-

2000 EB₅₀ = 1996 JG₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	331.71577	(2000.0)		P	Q		
<i>n</i>	0.22726962	ω	40.36061	-0.73452188	+0.67852882		
<i>a</i>	2.6593477	Ω	182.42239	-0.66358851	-0.72092012		
<i>e</i>	0.1412698	<i>i</i>	11.92328	-0.14187283	-0.14097098		
<i>P</i>	4.34	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 10 21	809	0.6-	0.8+	2000 03 14	120	0.4-	0.5-	2000 04 04	704	0.1+	0.3+
1993 10 21	809	0.5+	0.9+	2000 03 14	120	0.5+	1.0-	2000 04 04	704	0.7-	0.2+
1993 10 21	809	(1.7-	2.3-)	2000 03 14	120	0.8+	0.6+	2000 04 04	704	0.8-	0.5+
1996 05 11	327	0.1-	0.1+	2000 03 29	704	0.1-	0.2+	2000 04 06	699	0.2+	0.5+
1996 05 11	327	0.2+	0.1+	2000 03 29	704	0.0	0.4-	2000 04 06	699	0.3+	0.3+
1996 05 11	327	0.3-	0.1+	2000 03 29	704	0.0	0.2-	2000 04 06	699	0.3+	1.2+
1996 05 12	327	0.2+	0.6-	2000 03 29	704	0.7+	0.3-	2000 04 06	699	0.3+	0.8+
1996 05 12	327	0.2+	0.1+	2000 03 29	704	0.2+	0.4-	2000 04 08	704	0.2-	1.0-
1996 05 12	327	0.3-	0.2+	2000 04 02	699	0.5+	0.7+	2000 04 08	704	0.9+	0.3-
1997 09 26	327	0.0	0.2+	2000 04 02	699	0.1+	0.5+	2000 04 08	704	0.7+	0.7-
1997 09 26	327	0.3-	0.6+	2000 04 02	699	0.0	0.9+	2000 04 08	704	0.8+	0.4+
1997 09 26	327	0.0	0.0	2000 04 02	699	0.3+	1.0+	2000 04 10	704	0.0	0.1-
2000 03 07	120	0.2-	0.1+	2000 04 03	699	0.1-	0.2+	2000 04 10	704	0.3-	0.8+
2000 03 07	120	0.1-	0.2+	2000 04 03	699	0.2-	0.3+	2000 04 10	704	0.1+	0.8-
2000 03 07	120	0.0	0.2+	2000 04 03	699	0.0	0.9+	2000 04 10	704	0.2-	0.2-
2000 03 11	120	0.1+	0.9-	2000 04 03	699	0.1+	0.5-	2000 04 10	704	0.7-	0.0
2000 03 11	120	0.3+	1.1-	2000 04 04	704	0.2+	1.1-				
2000 03 11	120	0.9-	0.2-	2000 04 04	704	1.8-	0.6+				

2000 APR. 18

M.P.C. 40155

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	94.55888		(2000.0)	P		Q			
<i>n</i>	0.26358254	ω	111.13585	+0.45632193		-0.88637709			
<i>a</i>	2.4091192	Ω	311.46849	+0.77280642		+0.43831506			
<i>e</i>	0.1055960	<i>i</i>	5.98580	+0.44106749		+0.14904886			
<i>P</i>	3.74	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc									
1996 01 14	327	0.7+	0.1-	1998 09 27	704	(2.5-	4.2+)	2000 04 02	699 0.6+ 0.3+
1996 01 14	327	0.0	0.3-	1998 09 27	704	(5.3-	2.9+)	2000 04 03	684 0.2- 0.8-
1996 01 14	327	0.3+	0.5+	1998 09 27	704	(4.8-	3.3+)	2000 04 03	684 0.3- 0.8-
1996 01 18	327	0.1+	0.0	2000 03 10	684	1.1-	0.7-	2000 04 04	704 1.3+ 0.2+
1996 01 18	327	0.6-	0.2+	2000 03 10	684	1.2-	0.9-	2000 04 04	704 0.6+ 0.3+
1996 01 18	327	0.1-	0.5+	2000 03 11	684	1.3-	1.2-	2000 04 04	704 0.4+ 0.3+
1998 09 26	704	0.3-	0.1+	2000 03 11	684	1.3-	1.1-	2000 04 04	704 1.5+ 0.7+
1998 09 26	704	0.2+	0.8-	2000 04 02	699	1.0+	0.8+	2000 04 08	704 1.0+ 0.7+
1998 09 26	704	0.0	0.1+	2000 04 02	684	0.0	0.3-	2000 04 08	704 0.4+ 0.5+
1998 09 26	704	0.5+	0.0	2000 04 02	684	0.2-	0.1+	2000 04 08	704 0.3+ 0.8-
1998 09 26	704	0.5-	0.6+	2000 04 02	699	0.4-	0.6+	2000 04 08	704 0.7- 0.6+
1998 09 27	704	(2.5-	4.0+)	2000 04 02	699	0.5-	1.1+		

2000 EN₅₀ = 1989 RU₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	111.19373		(2000.0)		P		Q				
<i>n</i>	0.22326274	ω	38.62202		+0.78425419		−0.62043512				
<i>a</i>	2.6910714	Ω	359.69418		+0.39890787		+0.50715513				
<i>e</i>	0.2861670	<i>i</i>	26.37760		+0.47520298		+0.59820894				
<i>P</i>	4.41	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	3			
Residuals in seconds of arc											
1989 09 06	675	1.4+	0.9+	2000 03 11	684	0.8−	1.2−	2000 04 04	704	0.5+	0.1−
1989 09 08	675	1.1+	0.4−	2000 03 11	684	0.8−	1.7−	2000 04 04	704	0.7+	0.1−
1989 09 08	675	1.2−	1.5−	2000 03 11	704	0.2+	0.6+	2000 04 04	704	0.3+	0.8+
1999 02 08	704	0.2−	1.9+	2000 03 11	704	0.4+	0.3+	2000 04 04	704	1.1+	0.4−
1999 02 08	704	(2.2+	2.3+)	2000 03 11	704	0.2−	1.6+	2000 04 06	704	0.5−	0.6−
1999 02 08	704	0.6+	1.1−	2000 03 11	704	(0.8+	2.1+)	2000 04 06	704	0.8+	1.0−
1999 02 08	704	0.2−	1.1−	2000 03 11	704	1.3+	1.1+	2000 04 06	704	0.3+	0.0
1999 02 08	704	(4.2−	0.6−)	2000 03 14	703	0.1−	0.1+	2000 04 07	704	0.0	0.8−
2000 03 10	684	0.6−	0.8−	2000 03 14	703	0.4+	0.4−	2000 04 07	704	0.1−	0.7−
2000 03 10	684	0.7−	0.7−	2000 03 14	703	0.5−	0.4+	2000 04 07	704	1.0−	0.5+
2000 03 10	704	0.4+	0.6+	2000 03 14	703	0.1−	0.4+	2000 04 07	704	0.6−	0.8+
2000 03 10	704	0.1−	0.1−	2000 04 03	691	0.6−	0.3−	2000 04 10	691	0.6−	0.4−
2000 03 10	704	0.2+	0.6+	2000 04 03	691	0.4−	0.4−	2000 04 10	691	0.5−	0.5−
2000 03 10	704	0.6+	0.7+	2000 04 03	691	0.5−	0.4−	2000 04 10	691	0.4−	0.4−
2000 03 10	704	0.3+	1.0+	2000 04 04	704	0.2+	0.1−				

2000 EV₅₀ = 1998 XV₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	47.94940		(2000.0)		P		Q				
<i>n</i>	0.18592713	ω	235.03313		-0.14022957		-0.98931921				
<i>a</i>	3.0402377	Ω	223.08301		+0.92634832		-0.11690290				
<i>e</i>	0.1610001	<i>i</i>	3.33944		+0.34959185		-0.08707011				
<i>P</i>	5.30	<i>H</i>	14.2	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 12 09	691	0.3+	0.1+	2000 03 03	704	0.3+	0.8+	2000 03 12	837	0.7-	0.6+
1998 12 09	691	0.4+	0.1+	2000 03 03	704	0.1+	0.6+	2000 03 12	837	0.8-	0.9+
1998 12 09	691	0.5+	0.0	2000 03 03	704	0.0	0.3+	2000 03 15	837	1.1-	0.9+
1998 12 13	691	0.3-	0.3-	2000 03 03	704	0.8-	0.4+	2000 03 15	837	1.3-	0.1-
1998 12 13	691	0.5-	0.1-	2000 03 11	837	1.1+	1.2-	2000 03 26	837	0.2+	0.5-
1998 12 13	691	0.3-	0.1+	2000 03 11	837	1.0+	0.2-	2000 03 26	837	0.0	1.5-
2000 03 03	704	1.2+	0.3-	2000 03 11	837	0.8+	1.1-	2000 03 26	837	0.0	0.2+

2000 EW₅₀ = 1988 FD₂ = 1989 OL₁ = 1998 XC₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	199.10706		(2000.0)			P		Q		
<i>n</i>	0.24492765	ω	191.49966			+0.92148909		+0.38363592		
<i>a</i>	2.5299436	Ω	145.74174			-0.34726073		+0.88373385		
<i>e</i>	0.1818986	<i>i</i>	6.18757			-0.17397656		+0.26802603		
<i>P</i>	4.02	<i>H</i>	13.5		<i>G</i>	0.15		<i>U</i>	2	
Residuals in seconds of arc										
1988 03 18	054	0.6-	1.4-	2000 03 11	620	0.0	0.3+	2000 04 02	699	0.1+ 0.7+
1989 07 29	675	0.6-	1.8-	2000 03 11	620	0.1+	0.6+	2000 04 02	699	0.6+ 0.2+
1989 07 29	675	0.9+	2.2-	2000 03 11	620	0.0	0.5+	2000 04 02	699	0.5+ 0.4+
1998 12 15	704	1.3-	1.4-	2000 03 11	699	0.9-	0.3-	2000 04 03	704	0.0 0.3+
1998 12 15	704	0.9-	2.0-	2000 03 11	699	0.4+	1.2+	2000 04 03	704	0.2- 0.4+
1998 12 15	704	1.2-	0.6+	2000 03 11	699	0.5-	0.2-	2000 04 03	704	0.3- 0.1+
1998 12 22	704	0.7+	0.3+	2000 03 11	699	0.0	0.1+	2000 04 03	704	0.2+ 0.6+
1998 12 22	704	0.4+	0.2-	2000 03 12	704	0.2-	0.3-	2000 04 03	704	0.5- 0.2+
1998 12 22	704	1.6+	1.0-	2000 03 12	704	0.2-	0.2-	2000 04 06	608	0.5- 0.8-
1998 12 22	704	0.7+	0.1-	2000 03 12	704	0.2-	0.6-	2000 04 06	608	0.3- 0.8-
1998 12 22	704	0.3+	0.2-	2000 03 12	704	0.1-	0.2-	2000 04 06	608	0.3- 0.9-
2000 02 26	703	0.2-	0.1+	2000 03 12	704	0.5-	0.3-	2000 04 08	704	0.5- 0.2+
2000 02 26	703	0.4-	0.3+	2000 03 14	608	0.2+	0.6-	2000 04 08	704	0.0 0.1+
2000 02 26	703	0.6+	0.0	2000 03 14	608	0.3+	0.3-	2000 04 08	704	0.3+ 0.8-
2000 02 26	703	0.1+	0.1-	2000 03 14	608	0.3+	0.2-	2000 04 08	704	0.3- 0.3-
2000 03 02	703	0.2-	0.3+	2000 03 28	704	0.2+	0.5+	2000 04 08	704	0.1+ 0.9-
2000 03 02	703	0.6-	0.2+	2000 03 28	704	0.5+	0.3+	2000 04 10	704	0.2+ 0.0
2000 03 02	703	0.5-	0.3+	2000 03 28	704	1.3+	1.2+	2000 04 10	704	0.7+ 0.6-
2000 03 02	703	0.4+	0.6-	2000 03 31	620	0.0	0.2-	2000 04 10	704	0.2+ 0.7-
2000 03 09	620	0.1-	0.5-	2000 04 01	620	0.2-	1.9+	2000 04 10	704	0.0 0.5-
2000 03 09	620	0.1-	0.8-	2000 04 01	620	(0.2-	2.4+)			
2000 03 09	620	0.4-	0.8-	2000 04 02	699	0.6+	0.5+			

2000 EP₅₄ = 1977 XH₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	235.64473			(2000.0)			P			Q					
<i>n</i>	0.24310382			ω	267.64248			+0.92954294			+0.35437291				
<i>a</i>	2.5425814			Ω	71.58869			-0.28100974			+0.85968787				
<i>e</i>	0.2848335			<i>i</i>	6.16117			-0.23871204			+0.36790842				
<i>P</i>	4.05			<i>H</i>	13.9			<i>G</i>	0.15			<i>U</i>	5		
Residuals in seconds of arc															
1977 12 07	675	0.1-	0.1-	2000 03 11	691	0.4+	0.1+	2000 04 04	704	0.1-	1.0+				
1977 12 08	675	0.1+	0.2+	2000 03 12	691	0.6-	0.1-	2000 04 04	704	0.1-	0.3+				
2000 02 27	691	0.4-	0.3-	2000 03 12	691	0.5-	0.0	2000 04 12	608	0.6-	1.6-				
2000 02 27	691	0.4-	0.2-	2000 03 12	691	0.6-	0.0	2000 04 12	608	0.4-	1.5-				
2000 02 27	691	0.3-	0.5-	2000 03 29	704	0.2-	1.7+	2000 04 12	608	0.6-	1.5-				
2000 03 10	691	0.6+	0.2-	2000 03 29	704	0.3+	0.5+	2000 04 13	704	1.5+	0.4+				
2000 03 10	691	0.5+	0.3-	2000 03 29	704	0.2+	0.9+	2000 04 13	704	0.3+	0.1+				
2000 03 10	691	0.5+	0.2-	2000 04 04	704	0.9-	0.2-	2000 04 13	704	0.6+	0.3+				
2000 03 11	691	0.5+	0.2-	2000 04 04	704	0.1+	0.5+	2000 04 13	704	0.2-	1.0+				
2000 03 11	691	0.7+	0.5-	2000 04 04	704	0.3-	0.4+								

2000 ET₅₄ = 1979 HW

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	277.66063		(2000.0)		P		Q				
n	0.23286120	ω	225.12002		+0.28363883		+0.95354530				
a	2.6166038	Ω	61.60634		-0.84408127		+0.29849010				
e	0.1182585	i	6.62494		-0.45505585		+0.04068197				
P	4.23	H	13.5		G	0.15	U	2			
Residuals in seconds of arc											
1979 04 19	807	1.2-	0.7-	1999 01 16	704	0.2+	1.3-	2000 03 29	704	0.0	0.1-
1979 04 26	807	1.4-	0.6-	1999 01 16	704	0.2+	0.1+	2000 04 04	699	0.5+	0.6+
1979 04 26	807	1.4+	1.4-	1999 01 16	704	(0.1-	2.7-)	2000 04 04	699	0.0	0.8+
1996 05 16	566	0.1+	0.5-	2000 03 08	704	0.9+	0.3-	2000 04 04	704	0.1+	0.4+

1996 05 16	566	0.0	0.4−	2000 03 08	704	0.1+	0.3+	2000 04 04	704	0.2−	0.5+
1996 05 16	566	0.3+	0.7−	2000 03 08	704	0.6+	0.8+	2000 04 04	699	0.3+	0.4+
1996 05 16	566	0.6−	0.2+	2000 03 08	704	1.1+	0.7+	2000 04 04	704	0.1+	0.8+
1996 05 16	566	0.0	0.4+	2000 03 08	704	0.0	1.1+	2000 04 04	699	0.2+	0.5+
1996 05 16	566	0.2−	0.0	2000 03 10	691	0.0	0.2−	2000 04 04	704	0.1+	1.0+
1996 06 15	566	0.6−	0.4−	2000 03 10	691	0.0	0.1−	2000 04 04	704	0.0	1.0+
1996 06 15	566	0.0	0.5−	2000 03 10	691	0.1+	0.2−	2000 04 08	704	0.2+	0.1+
1996 06 15	566	0.2−	0.6−	2000 03 11	691	0.1−	0.5−	2000 04 08	704	0.0	0.2+
1998 12 17	704	0.1+	0.8−	2000 03 11	691	0.0	0.4−	2000 04 08	704	0.3−	0.5+
1998 12 17	704	1.6−	0.8−	2000 03 11	691	0.0	0.4−	2000 04 08	704	0.4−	0.0
1998 12 17	704	0.9−	0.3+	2000 03 29	704	0.1−	0.2−	2000 04 08	704	0.2−	0.2+
1998 12 17	704	0.0	0.4−	2000 03 29	704	0.4+	0.0	2000 04 13	608	0.3−	1.1−
1998 12 17	704	1.0+	0.1+	2000 03 29	704	0.3−	0.0	2000 04 13	608	0.3−	0.8−
1999 01 16	704	0.6+	0.4−	2000 03 29	704	0.1+	0.1+	2000 04 13	608	0.0	1.3−

2000 EY₅₄ = 1998 UJ₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	99.21875		(2000.0)	P	Q
n	0.27734668	ω	298.07733	+0.10562986	−0.99210275
a	2.3287385	Ω	145.65234	+0.94924560	+0.08033510
e	0.0708701	i	6.88487	+0.29626867	+0.09632453
P	3.55	H	14.9	G 0.15	U 3

Residuals in seconds of arc

1996 02 10	691	0.4−	0.7+	2000 02 26	691	0.6−	0.2−	2000 04 07	699	0.3−	0.2+
1996 02 10	691	0.0	0.1+	2000 02 26	691	0.5−	0.0	2000 04 07	699	0.3+	0.6+
1996 02 10	691	0.5+	0.3−	2000 02 26	691	0.8−	0.2−	2000 04 07	699	0.2+	0.5+
1998 10 18	809	1.1+	0.9−	2000 03 10	691	0.5−	0.6−	2000 04 08	704	0.3+	0.2+
1998 10 18	809	0.5+	1.1−	2000 03 10	691	0.2−	0.3−	2000 04 08	704	0.2+	0.4+
1998 10 18	809	0.0	0.4−	2000 03 10	691	0.5−	0.5−	2000 04 08	704	0.4+	1.2+
1998 10 19	809	0.0	0.7−	2000 03 11	691	0.0	0.3−	2000 04 08	704	0.4+	1.4+
1998 10 19	809	0.1+	0.6−	2000 03 11	691	0.1+	0.1−	2000 04 13	704	0.2−	0.2+
1998 10 19	809	0.3+	0.5−	2000 03 11	691	0.1+	0.4−	2000 04 13	704	0.1−	0.3+
1998 11 13	704	0.1+	0.1+	2000 04 04	704	0.1+	0.5+	2000 04 13	704	0.0	0.8−
1998 11 13	704	0.0	0.7−	2000 04 04	704	0.7+	0.0	2000 04 13	704	0.1+	0.9−
1998 11 13	704	0.2−	1.1+	2000 04 04	704	0.8−	0.1+	2000 04 13	608	0.1+	1.4−
1998 11 13	704	0.3−	0.2+	2000 04 04	704	0.2−	0.4+	2000 04 13	608	0.1+	1.0−
1998 11 13	704	1.0−	1.7+	2000 04 07	699	0.4+	0.3−	2000 04 13	608	0.2+	1.1−

2000 EZ₅₄ = 1990 SJ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	260.52261		(2000.0)	P	Q
n	0.17374993	ω	145.49272	+0.77196856	+0.63523718
a	3.1806774	Ω	174.88178	−0.62593068	+0.76600717
e	0.2206880	i	15.07389	−0.11079405	+0.09852279
P	5.67	H	13.4	G 0.15	U 4

Residuals in seconds of arc

1990 09 24	809	0.0	0.4−	2000 03 10	691	0.1+	0.2−	2000 04 04	699	0.5−	0.3+
1990 09 24	809	0.3+	0.2−	2000 03 11	691	0.6+	0.1+	2000 04 04	704	0.4−	0.2−
1990 09 24	809	0.5+	0.0	2000 03 11	691	0.6+	0.3+	2000 04 04	704	0.3+	0.5+
1990 09 25	809	0.4−	0.2+	2000 03 11	691	0.6+	0.1+	2000 04 04	699	0.5−	0.1−
1990 09 25	809	0.2−	0.2+	2000 03 12	691	0.3−	0.0	2000 04 04	704	0.2+	0.2+
1990 09 25	809	0.2−	0.2+	2000 03 12	691	0.2−	0.2−	2000 04 08	704	0.0	0.1−
2000 02 26	691	1.0−	0.3+	2000 03 12	691	0.3−	0.0	2000 04 08	704	0.9+	0.6−
2000 02 26	691	0.4+	0.0	2000 04 04	699	0.3−	0.1−	2000 04 08	704	0.3−	1.6+
2000 02 26	691	0.1+	0.1−	2000 04 04	704	0.1−	0.6−	2000 04 08	704	0.2−	0.4−
2000 03 10	691	0.3+	0.2−	2000 04 04	699	0.6−	0.3+	2000 04 08	704	0.5+	1.3−
2000 03 10	691	0.2+	0.3−	2000 04 04	704	0.2+	0.8+				

2000 ED₅₅ = 1998 XV₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	271.53818		(2000.0)	P	Q
n	0.27750635	ω	224.84162	+0.38985205	+0.91412205
a	2.3278452	Ω	68.39752	−0.80774021	+0.39750926
e	0.1232970	i	6.87765	−0.44223424	+0.07979513
P	3.55	H	14.2	G 0.15	U 4

Residuals in seconds of arc

1998 12 14	704	0.1−	0.4+	2000 03 08	704	1.2+	0.5−	2000 04 04	699	0.6−	0.1−
1998 12 14	704	0.2+	1.2−	2000 03 08	704	0.3+	0.7−	2000 04 04	704	0.3−	0.1−
1998 12 14	704	0.4+	1.4−	2000 03 08	704	0.6−	0.1+	2000 04 07	699	0.0	0.3+
1998 12 14	704	0.9+	0.9+	2000 03 10	691	0.1−	0.4−	2000 04 07	699	0.2+	0.5+
1998 12 17	704	0.7−	0.9−	2000 03 10	691	0.3−	0.4−	2000 04 07	699	0.4+	0.5+
1998 12 17	704	(1.1+	2.3−)	2000 03 10	691	0.1−	0.5−	2000 04 07	699	0.1−	0.3+
1998 12 17	704	0.1+	1.4−	2000 03 11	691	0.0	0.3−	2000 04 08	704	0.1−	0.0
1998 12 17	704	0.4−	0.2−	2000 03 11	691	0.0	0.2−	2000 04 08	704	0.3−	0.1+
1999 01 16	704	0.9−	0.8+	2000 03 11	691	0.0	0.2−	2000 04 08	704	0.4+	0.2−
1999 01 16	704	0.3+	0.5+	2000 04 04	699	0.5−	0.2+	2000 04 08	704	0.6−	0.3−
1999 01 16	704	1.2+	1.4+	2000 04 04	704	0.3+	0.5−	2000 04 08	704	0.9−	0.1+
1999 01 16	704	1.3−	1.1+	2000 04 04	699	0.8−	0.4+	2000 04 13	704	0.9+	0.1−
1999 01 16	704	(0.2−	2.4−)	2000 04 04	704	0.3+	0.2+	2000 04 13	704	0.1+	0.2−
2000 02 08	704	0.1+	0.8+	2000 04 04	699	0.6−	0.4+	2000 04 13	704	1.1+	0.7−
2000 02 08	704	0.1−	0.5+	2000 04 04	704	0.2−	0.0	2000 04 13	704	0.1+	0.1+
2000 02 08	704	0.7−	0.7+	2000 04 04	704	0.1+	0.1−	2000 04 13	704	1.1+	0.2−

2000 EJ₅₅ = 1995 GB₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	106.29901		(2000.0)	P	Q		
n	0.20516223	ω	314.74682	+0.06765171	−0.99337397		
a	2.8471113	Ω	131.13940	+0.94669488	+0.03451882		
e	0.0362416	i	7.08618	+0.31494769	+0.10962028		
P	4.80	H	14.1	G	0.15	U	4

Residuals in seconds of arc

1995 04 01	691	0.2−	0.1−	2000 03 11	691	0.1+	0.3+	2000 04 08	704	0.2+	0.8−
1995 04 01	691	0.3+	0.0	2000 03 11	691	0.1+	0.4+	2000 04 08	704	0.1−	0.3−
1995 04 01	691	0.6+	0.1+	2000 04 04	704	0.8+	0.0	2000 04 08	704	0.4+	0.6−
1995 04 06	691	0.1−	0.2+	2000 04 04	704	1.4+	1.4+	2000 04 08	704	0.2−	0.5+
1995 04 06	691	0.3−	0.2−	2000 04 04	704	0.2−	1.7−	2000 04 08	704	0.9+	0.5+
1995 04 06	691	0.4−	0.0	2000 04 04	704	0.8−	0.1−	2000 04 09	699	0.4−	0.6+
2000 03 10	691	0.2−	0.3−	2000 04 07	699	0.0	0.2+	2000 04 09	699	0.4−	0.1−
2000 03 10	691	0.2−	0.3−	2000 04 07	699	0.2−	0.2+	2000 04 09	699	0.3−	0.2+
2000 03 10	691	0.1−	0.2−	2000 04 07	699	0.4+	0.0	2000 04 09	699	0.7−	0.3−
2000 03 11	691	0.2+	0.4+	2000 04 07	699	0.5−	0.3+				

2000 EK₅₆ = 1997 NR₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	278.53328		(2000.0)	P	Q
n	0.26184698	ω	120.31642	+0.01035140	+0.99969447
a	2.4197528	Ω	150.25155	−0.93226621	+0.01776614
e	0.1593643	i	2.59271	−0.36162488	−0.01718502
P	3.76	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1997 07 07	691	0.1+	0.0	2000 03 08	704	0.5+	1.6−	2000 04 02	699	0.7−	0.1+
1997 07 07	691	0.3+	0.6−	2000 03 08	704	0.1+	1.1−	2000 04 02	699	1.4−	1.0+
1997 07 07	691	0.3−	0.4+	2000 03 08	704	0.1+	0.5−	2000 04 06	704	0.2−	0.1+
1997 07 12	691	0.1+	0.4+	2000 03 11	699	0.4+	0.8+	2000 04 06	704	0.5+	0.2−
1997 07 12	691	0.1+	0.1+	2000 03 11	699	0.0	0.5+	2000 04 06	704	0.2+	0.0
1997 07 12	691	0.4−	0.2−	2000 03 11	699	0.2−	0.8+	2000 04 10	704	0.6+	0.5+
2000 02 27	703	0.2+	0.1+	2000 03 11	704	0.1+	0.0	2000 04 10	704	0.4−	0.3−
2000 02 27	703	0.4−	0.5+	2000 03 11	699	0.5−	0.5+	2000 04 10	704	0.9−	0.3+
2000 02 27	703	0.1−	1.0+	2000 03 11	704	0.1+	0.2+	2000 04 10	704	0.4+	0

2000 APR. 18

M.P.C. 40157

2000 02 27	703	0.7+	0.2+	2000 03 11	704	0.1−	0.0	2000 04 10	704	1.0+	0.0
2000 03 05	608	0.5−	0.9−	2000 03 11	704	0.1+	0.0	2000 04 11	608	0.4+	1.4−
2000 03 05	608	0.2−	0.3−	2000 03 11	704	0.3−	0.0	2000 04 11	608	0.1+	1.0−
2000 03 05	608	0.2+	1.0−	2000 04 02	699	0.3−	0.4+	2000 04 11	608	0.2+	0.5−
2000 03 08	704	0.9+	1.3+	2000 04 02	699	0.5−	0.1+				

2000 EU₅₆ = 1989 YJ₉ = 1998 XD₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	241.56006		(2000.0)		P		Q
n	0.21933294	ω	276.96813		+0.42694448		+0.90382275
a	2.7231202	Ω	18.38790		−0.78961038		+0.38807827
e	0.0162653	i	5.21741		−0.44071971		+0.18027674
P	4.49	H	13.5	G	0.15	U	1

Residuals in seconds of arc

1989 12 28	511	0.2−	0.2−	2000 03 08	704	0.8−	0.7−	2000 04 04	704	0.9−	0.2+
1989 12 28	511	0.2+	0.2+	2000 03 08	704	0.8−	0.4−	2000 04 04	704	0.3−	0.0
1997 08 30	566	0.3−	1.0+	2000 03 08	704	0.3−	0.2−	2000 04 04	704	0.5−	0.0
1997 08 30	566	0.2−	0.5+	2000 03 08	704	1.0+	1.3−	2000 04 04	704	0.6−	0.1−
1997 08 30	566	0.4−	0.4+	2000 03 08	704	0.9+	0.8+	2000 04 05	704	0.2−	0.2+
1998 12 14	704	0.5+	2.0+	2000 03 11	704	0.1−	0.1−	2000 04 05	704	0.1+	0.2+
1998 12 14	704	0.3+	0.5−	2000 03 11	704	0.3+	0.6+	2000 04 05	704	0.0	0.4−
1998 12 14	704	0.9−	0.2−	2000 03 11	704	0.6+	0.6+	2000 04 05	704	0.1−	0.1−
1998 12 14	704	1.6+	0.3−	2000 03 11	704	1.2+	0.9+	2000 04 05	704	0.0	0.4−
1998 12 14	704	1.4−	0.3−	2000 03 11	704	1.4+	0.9+	2000 04 06	704	0.1−	0.0
1998 12 16	704	0.6−	0.7+	2000 03 14	703	0.1−	0.1+	2000 04 06	704	0.4−	0.0
1998 12 16	704	(1.6+ 2.2−)		2000 03 14	703	0.6+	0.8+	2000 04 06	704	0.5−	0.0
1998 12 16	704	0.6+	0.7−	2000 03 14	703	0.1+	0.5+	2000 04 06	704	0.2+	1.8+
1998 12 16	704	(2.0+ 3.9+)		2000 03 14	703	0.5−	0.1+	2000 04 07	699	0.2−	0.3+
1998 12 17	704	0.3−	0.3+	2000 03 26	699	0.3+	0.2−	2000 04 07	699	0.1+	0.5+
1998 12 17	704	0.2−	0.3+	2000 03 26	699	0.3−	0.1−	2000 04 07	699	0.4+	0.6+
1998 12 17	704	0.1+	0.5−	2000 03 26	699	0.1+	0.2−	2000 04 07	699	0.5+	0.2+
1998 12 17	704	0.7+	1.0−	2000 03 26	699	0.1−	0.5−	2000 04 10	704	0.5−	0.3+
1998 12 17	704	0.3−	0.9+	2000 03 30	703	0.0	0.2−	2000 04 10	704	0.1−	0.1−
2000 02 27	703	0.1+	0.4+	2000 03 30	703	0.3−	0.0	2000 04 10	704	0.2+	0.2−
2000 02 27	703	0.6−	0.1−	2000 03 30	703	0.0	0.9−	2000 04 10	704	0.3+	0.4+
2000 02 27	703	0.1−	0.0	2000 03 30	703	0.2+	0.6+	2000 04 10	704	1.0+	1.5−
2000 02 27	703	0.4−	0.5−	2000 04 04	704	0.2+	0.7−				

2000 EZ₅₆ = 1997 TG₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

$\dot{M}$	10.57154		(2000.0)		P		Q
n	0.18107355	ω	321.09476		−0.93114147		−0.36359681
a	3.0943258	Ω	197.64512		+0.35327965		−0.88056475
e	0.1069710	i	5.26244		+0.09038285		−0.30397873
P	5.44	H	13.9	G	0.15	U	1

Residuals in seconds of arc

1994 01 16	010	0.1−	1.1+	2000 03 08	704	0.3+	0.5−	2000 04 05	704	0.2+	0.2+
1994 01 16	010	0.4+	0.2+	2000 03 08	704	1.4+	0.7+	2000 04 05	704	0.0	0.3−
1997 10 04	691	0.1+	1.0+	2000 03 08	704	0.6+	0.3+	2000 04 05	704	0.2−	0.3+
1997 10 04	691	0.5−	0.2−	2000 03 11	704	0.0	0.1−	2000 04 05	704	0.4−	0.3+
1997 10 04	691	0.1−	0.3+	2000 03 11	704	0.1+	0.2−	2000 04 05	704	0.2−	0.5+
1997 10 04	691	0.5−	0.3+	2000 03 11	704	0.2+	0.4−	2000 04 06	704	0.0	0.8+
1997 10 04	691	0.5−	0.4−	2000 03 11	704	0.1−	0.3−	2000 04 06	704	0.4−	0.5+
1997 10 04	691	1.5−	0.5−	2000 03 11	704	0.1−	0.4−	2000 04 06	704	0.3+	0.5+
1997 10 09	691	0.0	0.0	2000 04 02	699	0.8+	1.1+	2000 04 07	691	0.9−	1.0−
1997 10 09	691	0.3−	0.4+	2000 04 02	699	0.1+	0.8+	2000 04 07	691	0.7−	1.3−
1997 10 09	691	0.2−	0.1+	2000 04 02	699	0.8+	1.1+	2000 04 07	691	0.9−	1.0−
1997 10 09	327	1.3+	0.4+	2000 04 02	699	0.3−	1.0+	2000 04 08	704	0.1−	0.8+
1997 10 09	327	0.5+	0.4+	2000 04 03	691	0.5−	0.7−	2000 04 08	704	0.5+	0.5−
1997 10 09	327	1.2+	0.1+	2000 04 03	691	0.7−	0.7−	2000 04 08	704	0.5+	0.2+
1998 12 15	704	0.1−	0.7−	2000 04 03	691	0.6−	0.7−	2000 04 08	704	0.6+	0.0
1998 12 15	704	0.0	1.3−	2000 04 04	704	0.4−	1.1+	2000 04 08	704	0.4−	0.8−
1998 12 15	704	0.1+	0.5+	2000 04 04	704	0.2+	0.0	2000 04 10	608	0.3−	0.7−
1998 12 15	704	0.1+	0.1−	2000 04 04	704	0.6−	0.4+	2000 04 10	608	0.1+	0.3−

2000 03 08	704	1.9+	0.6−	2000 04 04	704	0.5−	0.1−	2000 04 10	608	0.0	0.2−
2000 03 08	704	0.9+	0.2−	2000 04 04	704	1.1−	0.9+				

2000 EF₅₇ = 1998 SJ₁₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	10.97350		(2000.0)		P		Q
n	0.28045740	ω	304.79033		−0.92748200		−0.37372096
a	2.3114870	Ω	213.26791		+0.34895479		−0.85527888
e	0.0541032	i	1.09448		+0.13419279		−0.35892990
P	3.51	H	15.3	G	0.15	U	4

Residuals in seconds of arc

1998 09 26	704	0.4+	1.1+	2000 03 08	704	0.4−	0.8+	2000 04 02	691	0.9−	0.3−
1998 09 26	704	0.3−	0.5−	2000 03 08	704	0.7+	1.5−	2000 04 02	691	0.9−	0.4−
1998 09 26	704	0.5−	1.1−	2000 03 08	704	0.6−	0.6+	2000 04 04	704	0.4+	0.2+
1998 09 27	704	1.6−	1.1+	2000 03 08	704	1.3+	0.9+	2000 04 04	704	0.2+	0.7+
1998 09 27	704	0.6+	0.9+	2000 03 08	704	0.1−	0.0	2000 04 04	704	(0.4− 2.4+)	
1998 09 27	704	0.2+	0.4+	2000 03 09	691	0.5−	0.1−	2000 04 04	704	0.6+	0.9+
1998 09 27	704	0.3−	1.2+	2000 03 09	691	0.5−	0.2−	2000 04 04	704	0.6+	1.3+
1998 11 10	704	0.3+	0.2−	2000 03 09	691	0.6−	0.1−	2000 04 05	704	0.5+	1.3+
1998 11 10	704	(2.6− 0.3+)		2000 03 10	608	0.6+	1.3−	2000 04 05	704	0.5+	1.2+
1998 11 10	704	1.1+	0.7−	2000 03 10	608	0.8+	1.4−	2000 04 05	704	0.3+	1.9+
1998 11 10	704	0.7−	0.2+	2000 03 10	608	1.0+	1.2−	2000 04 05	704	0.0	1.8+
2000 02 27	703	0.1−	0.0	2000 03 11	704	0.0	0.5+	2000 04 05	704	(0.0 2.2+)	
2000 02 27	703	0.5−	0.8+	2000 03 11	704	0.2−	0.3+	2000 04 06	704	(2.1+ 1.5−)	
2000 02 27	703	1.6−	0.1+	2000 03 11	704	0.2−	0.4+	2000 04 06	704	0.9+	0.4−
2000 03 05	049	1.4+	1.2−	2000 03 11	704	0.3+	0.6+	2000 04 06	704	0.5+	0.4+
2000 03 05	049	0.3+	0.7−	2000 03 11	704	0.1+	0.6+	2000 04 11	691	0.2−	0.7−
2000 03 05	049	0.3−	0.4+	2000 03 12	049	0.3+	0.9−	2000 04 11	691	0.3−	0.6−
2000 03 06	608	0.7−	0.1−	2000 03 12	049	0.2+	0.9−	2000 04 11	691	0.0	0.7−
2000 03 06	608	0.6−	0.0	2000 03 12	049	0.1−	0.4−				
2000 03 06	608	0.7−	0.0	2000 04 02	691	0.8−	0.3−				

2000 EK₅₇ = 1998 XW₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	37.64281		(2000.0)		P		Q
n	0.18457157	ω	144.13540		−0.70080989		−0.71268827
a	3.0551053	Ω	350.22529		+0.60513165		−0.57117581
e	0.0206513	i	10.40928		+0.37773163		−0.40722675
P	5.34	H	13.3	G	0.15	U	3

Residuals in seconds of arc

1998 12 14	704	1.1−	0.1+	2000 02 08	704	1.7+	0.2+	2000 04 02	699	0.7−	1.1+
1998 12 14	704	(2.3−	0.1+)	2000 03 06	608	0.2−	0.1−	2000 04 02	699	0.1−	0.2−
1998 12 14	704	1.2−	0.4+	2000 03 06	608	0.2−	0.2+	2000 04 02	699	0.2−	0.2−
1998 12 17	704	1.3−	0.6−	2000 03 06	608	0.2−	0.1+	2000 04 02	699	0.5−	0.8+
1998 12 17	704	(2.1+ 1.7+)		2000 03 08	704	0.4+	0.5+	2000 04 04	704	(2.5+ 0.1−)	
1998 12 17	704	1.7+	0.0	2000 03 08	704	0.8+	1.0+	2000 04 04	704	0.4+	0.4+
1998 12 17	704	1.3+	0.3−	2000 03 08	704	0.1+	0.2−	2000 04 04	704	(3.4− 0.5−)	
1999 01 16	704	0.5−	1.9+	2000 03 08	704	1.2−	1.2+	2000 04 06	704	0.4−	0.2+
1999 01 16	704	0.8+	0.6+	2000 03 09	691	0.9−	0.2−	2000 04 06	704	0.4−	0.3+
1999 01 16	704	0.6−	1.1−	2000 03 09	691	0.9−	0.3−	2000 04 06	704	0.3−	0.1+
1999 01 16	704	0.6−	0.6−	2000 03 09	691	1.0−	0.4−	2000 04 06	704	0.6−	0.5+
1999 01 16	704	1.4+	0.4−	2000 03 11	704	0.1+	0.3+	2000 04 08	704	1.1+	1.0+
2000 01 08	704	0.2−	0.0	2000 03 11	704	0.2+	0.0	2000 04 08	704	0.1+	0.2+
2000 01 08	704	0.2−	1.4−	2000 03 11	704	0.2+	0.1−	2000 04 08	704	1.0+	0.0
2000 01 08	704	0.3−	0.7−	2000 03 11	704	0.3−	0.2+	2000 04 08	704	0.6+	1.2−
2000 01 08	704	1.3−	1.3−	2000 03 11	704	0.0	0.2+	2000 04 08	704	0.3+	1.8−
2000 02 08	704	0.9+	0.7+	2000 03 14	703	0.2−	1.2+	2000 04 10	608	0.2−	0.6−
2000 02 08	704	1.1+	0.3+	2000 03 14	703	0.1−	0.3+	2000 04 10	608	0.2+	1.0−
2000 02 08	704	0.8+	0.2+	2000 03 14	703	0.8−	0.8+	2000 04 10	608	0.0	1.3−
2000 02 08	704	1.2+	0.0	2000 03 14	703	0.4+	0.1+				

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	23.08405		(2000.0)	Williams			
<i>n</i>	0.26307894	ω	268.40970	P	Q		
<i>a</i>	2.4121927	Ω	231.69013	+0.59184612	-0.70376611		
<i>e</i>	0.1318788	<i>i</i>	0.48208	+0.24742971	-0.30537445		
<i>P</i>	3.75	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 14	691	0.3+	0.1+	2000 03 08	704	0.8+	0.6+	2000 03 14	608	0.2+	1.2-
1998 10 14	691	0.0	0.5+	2000 03 08	704	(0.8+	2.4+)	2000 04 02	691	0.7-	0.0
1998 10 14	691	0.2+	0.5+	2000 03 08	704	0.0	0.9+	2000 04 02	691	0.7-	0.2-
1998 10 19	691	0.4-	0.2+	2000 03 11	704	0.3-	0.1+	2000 04 02	691	0.7-	0.1-
1998 10 19	691	0.6-	0.2+	2000 03 11	704	0.4-	0.2+	2000 04 05	704	0.6+	0.2+
1998 10 19	691	0.2-	0.3+	2000 03 11	704	0.4-	0.0	2000 04 05	704	0.4+	1.7+
2000 02 10	049	0.2-	1.0-	2000 03 11	704	0.6-	0.2-	2000 04 05	704	0.3+	1.0+
2000 02 10	049	0.8-	0.9-	2000 03 11	704	0.7-	0.2-	2000 04 05	704	0.9+	1.2+
2000 02 10	049	0.4-	1.7-	2000 03 14	703	0.7+	0.6+	2000 04 05	704	0.2+	1.1+
2000 02 27	703	0.2-	0.9+	2000 03 14	703	0.1+	0.2+	2000 04 11	691	0.3-	0.5-
2000 02 27	703	0.3+	0.8+	2000 03 14	703	0.3+	0.4+	2000 04 11	691	0.2+	0.7-
2000 02 27	703	0.5+	0.2-	2000 03 14	703	0.1+	0.6+	2000 04 11	691	0.0	1.4-
2000 02 27	703	0.4-	0.2+	2000 03 14	608	0.1+	0.9-				
2000 03 08	704	0.4+	0.7+	2000 03 14	608	1.0+	1.4-				

2000 EM₅₇ = 1998 TP₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	340.08994		(2000.0)	Williams			
<i>n</i>	0.26717062	ω	307.38891	P	Q		
<i>a</i>	2.3875011	Ω	248.38165	-0.96232946	+0.27176423		
<i>e</i>	0.1263416	<i>i</i>	0.50151	-0.11449521	-0.37792418		
<i>P</i>	3.69	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 13	691	0.4+	0.2+	2000 03 11	704	0.6-	0.1+	2000 04 05	704	(1.1-	2.7+)
1998 10 13	691	0.3+	0.4+	2000 03 11	704	0.6-	0.3-	2000 04 05	704	1.1+	0.8+
1998 10 13	691	0.3+	0.0	2000 03 11	704	0.4-	0.6-	2000 04 05	704	0.4+	0.8+
1998 10 18	691	0.5-	0.1+	2000 03 11	704	0.4-	0.2-	2000 04 05	704	0.5+	1.0+
1998 10 18	691	0.8-	0.0	2000 03 11	704	0.3-	0.8-	2000 04 05	704	0.0	0.6+
2000 02 27	703	0.8-	0.6-	2000 03 14	703	0.2-	0.1-	2000 04 07	704	0.7+	0.1-
2000 02 27	703	0.3-	0.1+	2000 03 14	703	0.8+	0.9-	2000 04 07	704	0.5+	1.7+
2000 02 27	703	1.1+	0.1+	2000 03 14	703	0.1+	0.1-	2000 04 07	704	0.4+	0.3-
2000 02 27	703	0.1-	0.5-	2000 03 14	703	0.2+	0.4+	2000 04 11	691	0.6-	0.5-
2000 03 08	704	0.6+	1.4+	2000 04 02	691	0.2-	0.2-	2000 04 11	691	0.6-	0.5-
2000 03 08	704	0.2-	0.9+	2000 04 02	691	0.3-	0.1-	2000 04 11	691	0.5-	0.7-
2000 03 08	704	0.0	0.9-	2000 04 02	691	0.1-	0.1-				

2000 EU₅₇ = 1992 JH₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	6.85779		(2000.0)	Williams			
<i>n</i>	0.24250213	ω	310.04350	P	Q		
<i>a</i>	2.5467854	Ω	211.89094	+0.29826665	-0.88380845		
<i>e</i>	0.1586039	<i>i</i>	2.71412	+0.08980298	-0.34997268		
<i>P</i>	4.06	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 05 07	691	0.2+	0.2+	2000 03 08	704	1.2-	0.2-	2000 03 14	703	0.4-	1.1+
1992 05 07	691	0.1+	0.4+	2000 03 11	704	1.3+	0.1+	2000 03 26	699	0.7-	0.1-
1992 05 07	691	0.3+	0.2+	2000 03 11	704	0.5+	0.3+	2000 03 26	699	0.1+	0.5-
1992 05 08	691	0.7-	0.0	2000 03 11	704	0.3+	0.1-	2000 03 26	699	0.1-	0.4-
1992 05 08	691	0.2-	0.2-	2000 03 11	704	0.2-	0.8+	2000 03 26	699	0.2+	0.0
1992 05 08	691	0.4+	0.4-	2000 03 11	704	0.2+	0.3-	2000 04 05	704	0.2+	0.2-
2000 03 08	704	0.2+	1.2-	2000 03 14	703	0.8-	0.8+	2000 04 05	704	0.4+	0.2-
2000 03 08	704	0.4+	0.4+	2000 03 14	703	0.3+	0.0	2000 04 05	704	0.4-	0.2+
2000 03 08	704	0.1-	0.0	2000 03 14	703	0.4-	0.3-	2000 04 05	704	0.2+	0.2-

2000 EB₅₈ = 1999 BH₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.67818		(2000.0)	Williams			
<i>n</i>	0.18540370	ω	48.72569	P	Q		
<i>a</i>	3.0459572	Ω	253.82989	+0.53809892	+0.84285355		
<i>e</i>	0.0716491	<i>i</i>	0.41091	-0.77545702	+0.49183563		
<i>P</i>	5.32	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	1.2+	1.8-	2000 03 11	704	0.1+	0.4+	2000 04 02	699	0.5+	0.2-
1998 12 15	704	1.4-	0.6-	2000 03 11	704	0.1+	0.1-	2000 04 05	704	0.7-	0.8-
1998 12 15	704	0.4+	0.4+	2000 03 11	704	0.5+	0.3+	2000 04 05	704	0.1+	0.2-
1998 12 15	704	0.0	0.3-	2000 03 11	704	0.0	0.2-	2000 04 05	704	0.1-	0.3-
1998 12 15	704	0.6-	1.1-	2000 03 11	704	0.4+	0.1+	2000 04 05	704	0.2+	0.3-
1999 01 16	704	0.4-	0.2-	2000 03 14	703	0.4-	0.1+	2000 04 06	704	0.2+	0.1+
1999 01 16	704	1.0+	1.7-	2000 03 14	703	0.0	0.3-	2000 04 06	704	0.5+	0.3+
1999 01 16	704	0.1-	1.2+	2000 03 14	703	0.2-	0.1-	2000 04 06	704	0.1-	0.1+
1999 01 16	704	1.2-	0.1-	2000 03 14	703	0.1-	0.3+	2000 04 06	704	0.1+	0.1-
1999 01 19	704	0.0	1.0+	2000 03 25	691	0.4-	0.0	2000 04 07	691	0.5-	0.5-
1999 01 19	704	0.6+	0.0	2000 03 25	691	0.3-	0.0	2000 04 07	691	0.3-	0.5-
1999 01 19	704	0.6-	1.3+	2000 03 25	691	0.3-	0.1+	2000 04 07	691	0.3-	0.4-
1999 01 19	704	0.9+	1.7+	2000 03 26	699	0.0	0.3+	2000 04 08	704	0.0	0.1+
2000 02 27	703	0.8-	0.2-	2000 03 26	699	0.8-	0.8+	2000 04 08	704	0.3+	0.5+
2000 02 27	703	0.4+	0.4+	2000 03 26	699	0.2-	0.0	2000 04 08	704	0.1+	0.9-
2000 02 27	703	0.1+	0.1-	2000 03 26	699	0.4-	0.9+	2000 04 08	704	1.2+	0.8+
2000 02 27	703	0.1-	0.4-	2000 04 02	691	0.1-	0.3-	2000 04 08	704	0.3-	0.3+
2000 03 08	704	0.4+	0.8+	2000 04 02	699	0.3+	0.2+	2000 04 10	608	0.5-	0.4-
2000 03 08	704	0.5+	0.7+	2000 04 02	691	0.0	0.4-	2000 04 10	608	0.0	0.8-
2000 03 08	704	0.7+	0.1+	2000 04 02	699	0.2-	0.9+	2000 04 10	608	0.0	0.9-
2000 03 08	704	0.6+	0.8-	2000 04 02	691	0.0	0.4-				
2000 03 08	704	0.3-	0.0	2000 04 02	699	0.1+	0.7+				

2000 EE₅₈ = 1998 SP₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	0.55762		(2000.0)	Williams			
<i>n</i>	0.27434489	ω	285.19597	P	Q		
<i>a</i>	2.3456946	Ω	246.42720	-0.98904575	-0.14576063		
<i>e</i>	0.1161462	<i>i</i>	1.45596	+0.14330085	-0.91031193		
<i>P</i>	3.59	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	691	0.1-	0.1+	2000 03 11	704	0.5-	1.2-	2000 04 07	699	0.0	0.4-
1998 09 26	691	0.1+	0.0	2000 03 11	704	0.6-	0.9-	2000 04 07	699	0.0	0.4+
1998 09 26	691	0.0	0.0	2000 04 05	704	0.2+	0.7+	2000 04 07	699	0.8-	0.2+
1998 10 01	691	0.1+	0.1-	2000 04 05	704	0.2-	0.4-	2000 04 07	699	0.3-	0.4+
1998 10 01	691	0.0	0.1+	2000 04 05	704	0.2+	0.5-	2000 04 08	704	0.1+	0.8+
1998 10 01	691	0.1-	0.0	2000 04 05	704	0.0	0.7-	2000 04 08	704	0.7-	0.8+
2000 03 08	704	0.5-	1.5+	2000 04 05	704	0.0	0.4-	2000 04 08	704	1.0+	0.2-
2000 03 08	704	0.7+	0.6+	2000 04 06	704	0.1-	0.3+	2000 04 08	704	0.0	0.2-
2000 03 08	704	1.3+	0.7+	2000 04 06	704	0.3+	0.4-	2000 04 08	704	0.5+	0.8+
2000 03 11	704	0.2-	0.2-	2000 04 06	704	0.2-	0.4-				
2000 03 11	704	0.4-	0.8-	2000 04 06	704	0.2+	0.6-				

2000 EG₅₈ = 1997 JH₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	289.54218		(2000.0)	Williams			
<i>n</i>	0.30618478	ω	242.27868	P	Q		
<i>a</i>	2.1801196	Ω	18.54019	-0.15992658	+0.98699421		
<i>e</i>	0.1882358	<i>i</i>	2.93968	-0.88665641	-0.13636804		
<i>P</i>	3.22	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 04 11	704	0.2-	0.1-	2000 03 02	703	0.1-	0.0	2000 04 05	704	0.7+	0.0
1997 04 11	704	0.3-	0.2-	2000 03 02	703	0.2-	0.6-	2000 04 05	704	0.1-	0.1-
1997 05 01	704	0.3-	0.5-	2000 03 02	703	0.4-	0.7+	2000 04 05	704	0.1+	0.3+

2000 APR. 18

M.P.C. 40159

1997 05 01	704	0.2−	0.4−	2000 03 08	704	1.3−	1.4−	2000 04 05	704	0.3−	0.2−
1997 05 01	704	0.3+	0.5−	2000 03 08	704	0.5+	0.3−	2000 04 05	704	0.7−	0.0
1997 05 01	704	0.4−	0.7−	2000 03 08	704	0.2+	0.4+	2000 04 06	704	0.4+	0.1+
1997 05 01	704	0.0	0.7−	2000 03 11	699	0.5−	0.1−	2000 04 06	704	0.3+	0.4+
1997 05 07	704	0.2−	0.2−	2000 03 11	699	0.3−	0.3+	2000 04 06	704	1.1+	0.6+
1997 05 07	704	0.1−	0.0	2000 03 11	699	0.5−	0.0	2000 04 06	704	0.5−	0.9+
1997 05 07	704	0.1+	0.0	2000 03 11	704	0.3−	0.1−	2000 04 06	704	0.3+	0.5+
1997 05 07	704	0.0	0.3−	2000 03 11	699	0.2−	0.1+	2000 04 07	704	0.5+	0.0
1998 11 24	704	1.5−	1.4−	2000 03 11	704	0.2−	0.4−	2000 04 07	704	0.3+	0.2−
1998 11 24	704	1.7+	1.0−	2000 03 11	704	0.5−	0.2−	2000 04 07	704	0.6+	0.4+
1998 11 24	704	0.1−	0.3−	2000 03 11	704	0.6−	0.6−	2000 04 07	704	0.2+	0.3+
1998 11 24	704	0.5+	0.3+	2000 03 11	704	0.5−	0.3−	2000 04 07	704	0.3+	0.1−
2000 02 27	703	(0.7+	3.1+)	2000 04 05	704	(2.3+	1.9−)	2000 04 10	704	0.2+	0.4+
2000 02 27	703	1.0−	0.1−	2000 04 05	704	0.3+	0.1+	2000 04 10	704	0.2+	0.1+
2000 02 27	703	0.8−	0.2+	2000 04 05	704	0.2+	0.0	2000 04 10	704	1.5+	0.3+
2000 02 27	703	0.6−	0.4−	2000 04 05	704	0.4+	0.4−	2000 04 10	704	0.8+	1.0+
2000 03 02	703	0.3+	0.1−	2000 04 05	704	0.4+	0.3+	2000 04 10	704	1.0+	0.4+

2000 EL₅₈ = 1977 EX₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	293.10633		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21539176	ω	87.25499	−0.13303697		+0.99101608	
<i>a</i>	2.7562376	Ω	175.03665	−0.96065021		−0.12552982	
<i>e</i>	0.1209372	<i>i</i>	9.12555	−0.24382852		−0.04614525	
<i>P</i>	4.58	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1977 03 14	381	0.6+	0.8−	2000 03 25	739	0.2+	0.2−	2000 04 04	704	0.3−	0.2−
1977 03 14	381	2.2+	0.7−	2000 03 25	739	0.8−	0.1−	2000 04 04	704	0.2−	0.1−
1977 03 15	381	0.9−	0.2−	2000 03 26	739	0.6+	0.7−	2000 04 04	704	0.5+	0.3+
1977 03 15	381	2.0−	1.5+	2000 03 26	739	0.1+	0.1−	2000 04 06	699	0.3+	0.1+
2000 03 08	704	0.1+	0.4+	2000 03 29	704	0.8+	0.3+	2000 04 06	699	0.3−	0.1+
2000 03 08	704	1.1−	0.3+	2000 03 29	704	0.2+	0.1−	2000 04 06	699	0.3−	0.0
2000 03 08	704	0.3−	0.4−	2000 03 29	704	0.0	0.1+	2000 04 06	699	0.3+	0.0
2000 03 08	704	0.6−	0.0	2000 03 29	704	0.3+	0.2+	2000 04 08	704	0.1+	0.1+
2000 03 08	704	0.5−	0.7−	2000 03 29	704	0.3+	0.7+	2000 04 08	704	0.2−	0.0
2000 03 10	704	0.8−	0.5−	2000 04 02	699	0.3+	0.1−	2000 04 08	704	0.0	0.5+
2000 03 10	704	0.0	0.1−	2000 04 02	699	0.1+	0.2+	2000 04 08	704	0.3−	0.4+
2000 03 10	704	0.4+	0.4+	2000 04 02	699	0.5−	0.0	2000 04 08	704	0.0	0.2+
2000 03 10	704	0.2+	0.3−	2000 04 02	699	0.3+	0.2+	2000 04 10	704	0.1+	0.2+
2000 03 10	704	0.8+	0.4+	2000 04 03	699	0.8+	0.4−	2000 04 10	704	0.2+	0.8−
2000 03 11	704	0.2+	0.5−	2000 04 03	699	0.6+	0.2+	2000 04 10	704	0.5−	0.0
2000 03 11	704	0.3+	0.4+	2000 04 03	699	0.4+	0.5+	2000 04 10	704	0.4−	0.9−
2000 03 11	704	0.5+	0.5+	2000 04 03	699	0.0	0.3+	2000 04 10	704	0.4−	1.1−
2000 03 11	704	0.2+	0.3+	2000 04 04	704	0.6−	0.4+				
2000 03 25	739	1.3−	0.1+	2000 04 04	704	0.1−	0.4−				

2000 EM₅₈ = 1990 HB₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	272.03029		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.18155205	ω	220.03288	+0.32338820		+0.94546449	
<i>a</i>	3.0888865	Ω	68.86676	−0.85714876		+0.31012159	
<i>e</i>	0.1494701	<i>i</i>	2.39317	−0.40089410		+0.09960666	
<i>P</i>	5.43	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1990 04 29	413	0.3−	0.1−	2000 03 11	704	0.1−	0.2+	2000 04 06	699	0.0	0.2+
1990 05 01	413	0.1−	0.0	2000 03 11	704	1.3+	1.1+	2000 04 06	704	0.0	0.1+
1990 05 02	413	0.4+	0.1+	2000 04 05	704	0.2−	0.2+	2000 04 06	699	0.1+	0.6+
2000 03 08	704	0.2−	0.3+	2000 04 05	704	0.1−	0.0	2000 04 06	704	0.5+	0.1−
2000 03 08	704	0.1−	0.4−	2000 04 05	704	0.1+	0.0	2000 04 06	704	0.0	0.2−
2000 03 08	704	0.0	0.1+	2000 04 05	704	0.5−	0.2−	2000 04 06	699	0.3+	0.4+
2000 03 08	704	1.1−	0.5−	2000 04 05	704	0.3+	0.1+	2000 04 10	704	0.2−	1.3−
2000 03 08	704	0.3+	0.7−	2000 04 06	704	0.4+	0.1+	2000 04 10	704	0.2−	0.9−
2000 03 11	704	0.1+	0.3+	2000 04 06	699	0.5−	0.6+	2000 04 10	704	0.2+	0.2+
2000 03 11	704	0.2−	0.0	2000 04 06	704	0.0	0.1−				

2000 ER₅₈ = 1991 GJ₁₃ = 1998 YS₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	151.97103		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.21746477	ω	2.20652	+0.87099853		−0.48949996	
<i>a</i>	2.7386935	Ω	27.22720	+0.44933330		+0.75928275	
<i>e</i>	0.0095670	<i>i</i>	5.24815	+0.19864829		+0.42881172	
<i>P</i>	4.53	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 04 10	809	(1.9−	2.2−)	2000 03 11	704	0.3−	0.4−	2000 04 03	699	0.7−	0.1+
1991 04 10	809	1.0−	1.8−	2000 03 11	704	1.4−	0.3−	2000 04 05	704	0.2+	0.4+
1991 04 10	809	(3.7−	2.8−)	2000 03 14	691	0.0	0.8−	2000 04 05	704	0.0	0.2−
1993 12 13	691	0.4−	0.5+	2000 03 14	691	0.1+	0.6−	2000 04 05	704	0.5+	0.4+
1993 12 13	691	0.5−	1.4+	2000 03 14	691	0.3−	0.6−	2000 04 05	704	0.5+	0.0
1993 12 13	691	0.5−	1.1+	2000 03 27	699	0.3−	0.0	2000 04 05	704	0.3+	0.0
1998 12 16	704	0.8+	1.1+	2000 03 27	699	0.5+	0.3+	2000 04 06	704	0.0	0.4+
1998 12 16	704	1.0+	0.6−	2000 03 27	699	0.5−	0.0	2000 04 06	704	0.1−	0.6+
1998 12 16	704	(1.0−	2.4−)	2000 03 27	699	0.3−	0.4+	2000 04 06	704	0.2+	0.0
1998 12 16	704	0.8−	0.4+	2000 03 27	699	0.1+	0.2−	2000 04 06	704	0.1+	0.3−
1998 12 16	704	0.7−	1.3−	2000 03 27	699	0.3−	0.3+	2000 04 07	699	0.6+	0.5+
1998 12 17	704	0.1+	0.2−	2000 03 27	699	0.5−	0.1−	2000 04 07	699	0.6+	0.7+
1998 12 17	704	0.5+	1.3−	2000 03 27	699	0.1+	0.5+	2000 04 07	699	0.8+	0.5+
1998 12 17	704	0.8−	0.1−	2000 04 02	699	0.2−	0.6+	2000 04 07	699	0.7+	0.5+
2000 03 08	704	0.2−	0.5−	2000 04 02	699	0.4−	0.2+	2000 04 10	704	0.9+	0.6−
2000 03 08	704	0.9+	1.1+	2000 04 02	699	0.0	0.2+	2000 04 10	704	0.2+	0.4−
2000 03 08	704	0.7−	0.4+	2000 04 02	699	0.3+	0.3−	2000 04 10	704	0.5+	0.1+
2000 03 08	704	1.2+	1.3+	2000 04 03	699	0.3−	0.3−	2000 04 10	704	0.7+	0.2−
2000 03 11	704	0.4−	0.4−	2000 04 03	699	0.2−	0.0	2000 04 10	704	0.4+	0.0
2000 03 11	704	1.0−	0.0	2000 04 03	699	0.3−	0.1+				

2000 EX₅₈ = 1996 GK₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	326.32912		(2000.0)	<i>P</i>		<i>Q</i>	
<i>n</i>	0.23390531	ω	29.40477	−0.94531503		+0.32466720	
<i>a</i>	2.6088112	Ω	169.40044	−0.32243380		−0.91585014	
<i>e</i>	0.1675500	<i>i</i>	9.75166	−0.04915215		−0.23624083	
<i>P</i>	4.21	<i>H</i>	16.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 14	691	0.6−	0.0	2000 03 09	704	0.3−	0.3+	2000 03 25	691	0.1−	0.2−
1996 04 14	691	0.4−	0.1+	2000 03 09	704	0.5−	0.1−	2000 03 30	691	0.1+	0.5−
1996 04 14	691	0.4−	0.2+	2000 03 09	704	0.4−	0.3+	2000 03 30	691	0.1+	0.3−
1996 04 21	691	0.5+	0.1−	2000 03 11	704	0.1−	0.3+	2000 03 30	691	0.2+	0.3−
1996 04 21	691	0.5+	0.0	2000 03 11	704	0.0	0.1+	2000 04 03	691	0.0	0.3+
1996 04 21	691	0.5+	0.1−	2000 03 11	704	0.7+	1.0+	2000 04 03	691	0.0	0.2+
2000 03 09	704	0.3+	0.4−	2000 03 25	691	0.0	0.4−	2000 04 03	691	0.0	0.2+
2000 03 09	704	0.3+	0.1−	2000 03 25	691	0.2−	0.4−				

2000 EJ₅₉ = 1996 FV₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	101.69714		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22963227	ω	241.99164	+0.42318728	-0.90597521
a	2.6410752	Ω	183.03706	+0.88707096	+0.41677162
e	0.1549328	i	12.00507	+0.18443870	+0.07423159
P	4.29	H	14.6	G 0.15	U 3

M.P.C. 40160

2000 APR. 18

1998 11 13	704	1.4+	0.1-	2000 04 02	699	0.5-	0.2+	2000 04 06	699	0.5+	0.0
1998 11 13	704	0.3-	0.3+	2000 04 02	699	0.5-	0.3+	2000 04 06	704	0.7-	0.2+
1998 11 13	704	0.5-	0.2+	2000 04 05	704	0.6+	0.3+	2000 04 06	704	0.2+	0.2+
2000 03 09	704	0.1+	0.1+	2000 04 05	704	0.1+	0.0	2000 04 06	699	0.2-	0.1+

2000 ET₅₉ = 1997 KZ = 1998 US₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	247.72073		(2000.0)		P		Q
<i>n</i>	0.30209066	ω	113.17750		+0.36118363		+0.93249353
<i>a</i>	2.1997729	Ω	177.99363		-0.87028328		+0.33765769
<i>e</i>	0.0589428	<i>i</i>	2.42648		-0.33489311		+0.12823063
<i>P</i>	3.26	<i>H</i>	16.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 04 30	704	0.1-	0.7+	1998 10 23	691	0.2-	0.7+	2000 04 02	691	0.8-	1.0-
1997 04 30	704	0.0	0.4+	1998 10 24	691	0.2+	0.1+	2000 04 02	691	0.6-	1.4-
1997 04 30	704	0.7+	0.2-	1998 10 24	691	0.4-	0.3+	2000 04 02	691	0.7-	0.7-
1997 04 30	704	1.0+	0.3+	1998 10 24	691	0.1-	0.1+	2000 04 05	704	0.3+	0.5+
1997 05 27	910	0.0	0.0	2000 03 10	704	0.4+	0.3-	2000 04 05	704	0.2+	0.6+
1997 05 27	910	0.0	0.1-	2000 03 10	704	0.6+	0.2+	2000 04 05	704	0.1+	0.4+
1997 05 27	910	0.1-	0.1+	2000 03 10	704	0.2+	0.1+	2000 04 05	704	0.4+	0.5+
1997 05 29	910	0.2-	0.2+	2000 03 10	704	1.0+	0.2+	2000 04 06	704	0.4+	0.5-
1997 05 29	910	0.5-	0.0	2000 03 10	704	1.5+	1.7+	2000 04 06	704	1.0-	0.4-
1997 05 29	910	0.3-	0.4+	2000 03 11	704	0.1+	0.8+	2000 04 06	704	1.0+	0.1+
1998 10 23	691	0.0	0.0	2000 03 11	704	1.1-	0.0				
1998 10 23	691	0.1+	0.3+	2000 03 11	704	1.7-	0.8-				

2000 EV₅₉ = 1997 GQ₃₇ = 1998 RR₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	107.70910		(2000.0)		P		Q
<i>n</i>	0.31342274	ω	21.32621		+0.59026646		-0.80718674
<i>a</i>	2.1464250	Ω	32.49871		+0.73899548		+0.53741959
<i>e</i>	0.1103415	<i>i</i>	0.63161		+0.32476328		+0.24419204
<i>P</i>	3.14	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 04 13	691	0.4-	0.3-	1998 09 14	704	0.3+	0.4+	2000 03 26	699	0.2-	0.1-
1994 04 13	691	0.3+	0.3-	1998 09 14	704	(2.2-	3.5+)	2000 03 26	699	0.4+	0.2+
1994 04 13	691	0.2-	0.2-	1998 09 14	704	0.4-	1.2+	2000 03 26	699	0.7-	0.6-
1997 04 05	566	0.7-	0.0	1998 09 18	704	1.0+	0.0	2000 04 02	691	0.4-	0.7-
1997 04 05	566	1.5-	0.6-	1998 09 18	704	0.7-	0.1+	2000 04 02	691	0.3-	0.6-
1997 04 05	566	0.4-	0.3-	1998 09 18	699	1.2-	0.3+	2000 04 02	691	0.1-	0.5-
1997 04 11	704	1.1+	0.5+	1998 09 18	704	0.5+	0.9-	2000 04 05	704	0.3+	0.3+
1997 04 11	704	1.1+	0.6-	1998 09 18	699	0.1+	0.7-	2000 04 05	704	0.6+	0.3+
1998 08 17	704	0.6+	0.1+	1998 09 18	699	0.5+	0.2+	2000 04 05	704	0.4+	0.4+
1998 08 17	704	1.1-	1.7+	2000 03 10	704	0.1-	0.0	2000 04 05	704	0.4+	0.6+
1998 08 17	704	0.5+	0.5-	2000 03 10	704	0.7+	0.1+	2000 04 06	704	0.4-	1.1-
1998 08 17	704	1.5-	0.3+	2000 03 10	704	0.2-	0.3+	2000 04 06	704	0.2+	0.1+
1998 08 17	704	(3.8-	0.4-)	2000 03 10	704	0.6+	0.1+	2000 04 06	704	0.2-	0.5-
1998 08 30	699	0.1-	0.8-	2000 03 10	704	0.3+	0.9+	2000 04 10	704	0.5+	0.6+
1998 08 30	699	1.2+	0.5-	2000 03 11	704	0.4+	0.3+	2000 04 10	704	0.9+	0.6+
1998 08 30	699	0.3+	0.2+	2000 03 11	704	0.4+	0.3+	2000 04 10	704	1.7-	1.3+
1998 09 12	691	0.5-	0.3+	2000 03 11	704	0.5+	0.6+	2000 04 11	691	0.1-	0.4-
1998 09 12	691	0.1-	0.4+	2000 03 11	704	0.9+	0.7+	2000 04 11	691	0.2-	0.3-
1998 09 12	691	0.1+	0.2+	2000 03 11	704	1.1+	0.7+	2000 04 11	691	0.2-	0.2-
1998 09 14	704	0.4-	0.6+	2000 03 26	699	0.5-	0.5+				

2000 EF₆₀ = 1994 EZ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	310.60772		(2000.0)		P		Q
<i>n</i>	0.16813672	ω	291.10789		-0.27099809		+0.96254377
<i>a</i>	3.2510801	Ω	323.16522		-0.87790798		-0.25070360
<i>e</i>	0.2780670	<i>i</i>	0.79697		-0.39476274		-0.10323373
<i>P</i>	5.86	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 03 06	691	0.3-	0.1-	1994 03 18	691	0.1-	0.1-	2000 03 11	704	1.2-	0.1+
1994 03 06	691	0.1-	0.2-	2000 03 10	704	0.3+	0.1-	2000 04 10	691	0.3+	0.2+
1994 03 06	691	0.0	0.2-	2000 03 10	704	0.1-	0.2+	2000 04 10	691	0.0	0.2+
1994 03 11	691	0.2+	0.0	2000 03 10	704	0.6+	0.1+	2000 04 10	691	0.4+	0.1-
1994 03 11	691	0.1+	0.2+	2000 03 10	704	0.3-	1.7+	2000 04 13	691	0.5-	0.0
1994 03 11	691	0.3+	0.9+	2000 03 10	704	0.6+	0.7+	2000 04 13	691	0.1-	0.2-
1994 03 18	691	0.1-	0.3-	2000 03 11	704	0.3+	1.9-	2000 04 13	691	0.2-	0.3-
1994 03 18	691	0.0	0.5-	2000 03 11	704	0.0	0.3-				

2000 EK₆₀ = 1980 VM₃ = 1998 XL₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	118.45886		(2000.0)		P		Q
<i>n</i>	0.22051940	ω	41.86356		+0.80795161		-0.58921781
<i>a</i>	2.7133440	Ω	354.22835		+0.52340709		+0.72234856
<i>e</i>	0.2629226	<i>i</i>	3.44745		+0.27066440		+0.36198749
<i>P</i>	4.47	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1980 11 01	675	0.6-	0.8+	1998 12 14	704	(0.2+	2.4+)	2000 03 11	704	0.1+	0.7-
1980 11 02	675	0.1+	0.6+	1998 12 17	704	0.1+	0.5+	2000 03 11	704	1.0+	0.5-
1995 02 05	691	0.3-	0.5-	1998 12 17	704	0.6+	0.0	2000 04 05	704	0.5-	0.1+
1995 02 05	691	0.1-	0.4-	1998 12 17	704	0.2+	0.4-	2000 04 05	704	0.8-	0.3-
1995 02 05	691	0.2-	0.2-	1998 12 17	704	0.7+	1.0-	2000 04 05	704	0.1+	0.5+
1998 11 10	704	0.9-	0.0	1998 12 17	704	0.1-	0.6-	2000 04 05	704	0.8-	0.6+
1998 11 10	704	(2.6-	1.1+)	2000 03 10	704	0.1+	0.9+	2000 04 05	704	0.3-	0.2+
1998 11 10	704	0.2-	0.4+	2000 03 10	704	0.2+	0.3+	2000 04 06	704	1.5+	0.1+
1998 11 10	704	0.6+	0.3-	2000 03 10	704	0.2-	0.9+	2000 04 06	704	0.4-	0.1-
1998 11 10	704	0.3+	1.2-	2000 03 10	704	0.0	0.1-	2000 04 06	704	0.2+	0.1+
1998 12 14	704	0.2-	1.0+	2000 03 10	704	0.2-	0.1-	2000 04 06	704	0.5+	0.3+
1998 12 14	704	0.4-	0.3+	2000 03 11	704	0.4+	0.1+	2000 04 10	691	0.3-	0.2+
1998 12 14	704	0.1-	0.4-	2000 03 11	704	0.3+	0.6-	2000 04 10	691	0.0	0.1+
1998 12 14	704	0.6-	1.2+	2000 03 11	704	0.4+	0.1-	2000 04 10	691	0.2-	0.3+

2000 EY₆₀ = 1999 CX₁₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	196.68883		(2000.0)		P		Q
<i>n</i>	0.17622526	ω	347.53067		+0.96581002		+0.25869876
<i>a</i>	3.1508225	Ω	357.29490		-0.19624660		+0.68691520
<i>e</i>	0.1226785	<i>i</i>	20.99617		-0.16940566		+0.67913361
<i>P</i>	5.59	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 14	704	0.7+	0.6-	2000 03 10	704	0.4+	0.3+	2000 04 04	704	0.4+	0.4+
1999 01 14	704	1.2-	0.3-	2000 03 10	704	0.8+	0.6-	2000 04 05	704	0.2+	0.1+
1999 01 14	704	0.9-	0.4-	2000 03 10	704	1.6-	0.5+	2000 04 05	704	0.4-	0.2+
1999 01 14	704	0.2+	0.3+	2000 03 11	704	0.4-	0.3-	2000 04 05	704	0.1-	0.1-
1999 01 14	704	0.7+	0.9+	2000 03 11	704	0.1+	0.2+	2000 04 05	704	0.0	0.1+
1999 02 11	704	1.3+	1.2-	2000 03 11	704	0.2-	0.1-	2000 04 05	704	0.3-	0.3+
1999 02 11	704	0.7+	0.6+	2000 03 11	704	0.7+	0.2-	2000 04 07	699	0.4-	0.6-
1999 02 11	704	0.2+	1.2-	2000 03 11	704	0.4-	0.4+	2000 04 07	699	0.3-	0.3+
1999 02 11	704	0.1+	0.6+	2000 03 14	703	0.1-	0.5-	2000 04 07	699	0.1-	0.1+
1999 02 11	704	(3.3-	0.0)	2000 03 14	703	0.2+	0.4-	2000 04 07	699	0.1-	1.1+
1999 02 18	704	0.7-	0.1+	2000 03 14	703	0.5+	0.6-	2000 04 08	704	0.4+	1.1-
1999 02 18	704	1.2-	1.2+	2000 03 14	703	(2.2-	2.7-)	2000 04 08	704	0.0	0.2-
1999 02 18	704	(1.7-	2.4+)	2000 04 04	704	0.3+	0.4-	2000 04 08	704	0.7-	0.4-
1999 02 18	704	(2.4-	0.1-)	2000 04 04	704	0.6+	0.1-	2000 04 13	704	(0.4-	2.1-)
2000 03 10	704	0.6-	0.2+	2000 04 04	704	0.1-	0.7+	2000 04 13	704	0.1-	0.3+
2000 03 10	704	0.4+	0.1-	2000 04 04	704	0.2-	0.1+	2000 04 13	704	0.6+	0.2+

2000 APR. 18

M.P.C. 40161

2000 EA₆₁ = 1996 FB₃ = 1997 SE₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	290.00248		(2000.0)	P		Q	
<i>n</i>	0.24458281	ω	267.14744	−0.14001470		+0.98988521	
<i>a</i>	2.5323211	Ω	354.63951	−0.78303815		−0.12483619	
<i>e</i>	0.1492289	<i>i</i>	14.17186	−0.60600919		−0.06740324	
<i>P</i>	4.03	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 03 23	566	0.2+	0.3+	2000 03 08	704	(2.6+	0.4+)	2000 04 06	704	0.8−	0.3+
1996 03 23	566	0.1+	0.1−	2000 03 10	704	0.0	0.5+	2000 04 06	704	0.2−	0.1−
1996 03 23	566	0.2−	0.2+	2000 03 10	704	0.0	0.5+	2000 04 06	704	0.1+	0.2−
1996 03 24	566	0.3−	0.8−	2000 03 10	704	0.6+	0.3+	2000 04 06	704	0.3−	0.0
1996 03 24	566	0.2−	0.2−	2000 03 10	704	0.1−	0.2+	2000 04 07	704	0.3−	0.2−
1996 03 24	566	0.4−	0.7−	2000 03 10	704	0.2−	0.2+	2000 04 07	704	0.2−	0.0
1997 08 01	688	0.8+	0.1+	2000 03 11	704	0.3−	0.3+	2000 04 07	704	0.3+	0.1−
1997 08 01	688	0.6+	0.0	2000 03 11	704	0.2+	0.7+	2000 04 07	704	0.0	0.8+
1997 09 23	691	0.7−	0.5+	2000 03 11	704	0.6+	0.4+	2000 04 07	704	0.0	0.0
1997 09 23	691	0.6−	0.3+	2000 03 11	704	0.5+	0.3+	2000 04 08	704	0.0	0.2+
1997 09 23	691	0.7−	0.3+	2000 03 11	704	0.2+	0.9+	2000 04 08	704	0.2+	0.0
1997 09 29	691	0.2−	0.4+	2000 03 26	699	0.0	0.1−	2000 04 08	704	0.8+	0.4+
1997 09 29	691	0.4−	0.4+	2000 03 26	699	0.7−	0.5+	2000 04 08	704	0.2−	0.6−
1997 09 29	691	0.5−	0.4+	2000 03 26	699	0.1−	0.1+	2000 04 08	704	0.1−	0.3−
2000 02 27	691	0.2+	0.1+	2000 03 26	699	0.5−	0.5+	2000 04 08	704	0.1−	0.4−
2000 02 27	691	0.4+	0.1+	2000 04 04	704	0.4+	0.1−	2000 04 08	704	0.6+	0.1+
2000 02 27	691	0.5+	0.0	2000 04 04	704	0.4+	0.4−	2000 04 08	704	0.1−	0.4−
2000 03 08	704	0.1+	1.0−	2000 04 04	704	0.1−	0.1−	2000 04 08	704	0.6−	0.2+
2000 03 08	704	0.3−	0.5+	2000 04 04	704	0.1+	0.0	2000 04 08	704	0.6+	0.4+
2000 03 08	704	0.6+	0.6−	2000 04 04	704	0.6+	0.3+				

2000 EG₆₁ = 1997 NL₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	298.18911		(2000.0)	P		Q	
<i>n</i>	0.27004131	ω	7.92026	−0.27365599		+0.96150226	
<i>a</i>	2.3705507	Ω	246.20061	−0.88395144		−0.26166600	
<i>e</i>	0.1667851	<i>i</i>	1.56672	−0.37913356		−0.08393036	
<i>P</i>	3.65	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 07 02	691	0.1+	0.3+	2000 03 10	704	0.3−	0.3−	2000 04 05	704	0.5−	0.2−
1997 07 02	691	0.1−	0.5+	2000 03 11	704	0.1+	0.0	2000 04 05	704	0.4−	0.1−
1997 07 02	691	0.2−	0.1+	2000 03 11	704	0.3−	0.2+	2000 04 05	704	0.0	0.2+
1997 07 07	691	0.3−	0.2−	2000 03 11	704	0.0	0.3−	2000 04 05	704	0.2−	0.0
1997 07 07	691	0.3+	0.5−	2000 03 11	704	0.2+	0.1−	2000 04 05	704	0.4−	0.1−
1997 07 07	691	0.2+	0.2−	2000 03 11	704	0.6+	1.0+	2000 04 06	704	0.2+	0.3−
2000 03 10	704	0.4−	0.2+	2000 04 04	704	0.6−	0.1+	2000 04 06	704	0.2−	0.2−
2000 03 10	704	0.4+	0.4−	2000 04 04	704	0.5+	0.3+	2000 04 06	704	0.0	0.3−
2000 03 10	704	0.3+	0.2−	2000 04 04	704	1.1+	0.2+				
2000 03 10	704	0.4−	0.0	2000 04 04	704	0.5+	0.3+				

2000 EH₆₁ = 1997 RX₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	320.08688		(2000.0)	P		Q	
<i>n</i>	0.22123700	ω	12.74483	−0.76206313		+0.64686461	
<i>a</i>	2.7074735	Ω	207.62616	−0.59937850		−0.72152077	
<i>e</i>	0.0617158	<i>i</i>	3.55339	−0.24495959		−0.24692905	
<i>P</i>	4.45	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 08	910	0.0	0.0	2000 03 11	704	0.3+	0.1−	2000 04 06	704	0.0	0.1+
1997 09 08	910	0.1−	0.1+	2000 03 26	699	0.7−	0.2+	2000 04 06	704	0.0	0.9−
1997 09 08	910	0.1−	0.1+	2000 03 26	699	1.1−	0.4+	2000 04 06	704	0.0	0.2−
1997 09 08	910	0.2+	0.0	2000 03 26	699	0.6−	0.1+	2000 04 06	704	0.2+	0.4+
1997 09 08	910	0.1+	0.1+	2000 03 26	699	0.5−	0.1+	2000 04 07	704	0.1−	0.3+
1997 09 08	910	0.1−	0.2−	2000 04 05	704	0.2+	0.5+	2000 04 07	704	0.8−	0.5−

2000 03 10	704	0.1+	0.0	2000 04 05	704	0.1+	0.3+	2000 04 07	704	0.2+	0.3+
2000 03 10	704	0.7+	0.2−	2000 04 05	704	0.0	0.1+	2000 04 07	704	0.3−	0.8−
2000 03 10	704	0.1−	0.0	2000 04 05	704	0.0	0.2−	2000 04 08	704	0.9+	0.7−
2000 03 10	704	0.0	0.0	2000 04 05	704	0.2+	0.1−	2000 04 08	704	0.6+	0.9−
2000 03 10	704	0.1+	0.1+	2000 04 06	704	0.4−	1.3+	2000 04 08	704	0.0	1.3−
2000 03 11	704	0.4+	0.0	2000 04 06	704	0.2+	0.2−	2000 04 10	704	0.1−	0.0
2000 03 11	704	0.1+	0.1−	2000 04 06	704	0.1+	0.7+	2000 04 10	704	1.1+	1.2+
2000 03 11	704	0.1+	0.1−	2000 04 06	704	0.4+	0.2+	2000 04 10	704	0.9−	0.1+

2000 EL₆₁ = 1972 TT₇ = 1988 RY = 1997 GF₃₈ = 1998 VB₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.90565		(2000.0)	P		Q	
<i>n</i>	0.30398018	ω	115.46818	+0.98557891		+0.16674274	
<i>a</i>	2.1906477	Ω	234.94602	−0.16513495		+0.91055466	
<i>e</i>	0.1347449	<i>i</i>	2.01815	−0.03694128		+0.37826851	
<i>P</i>	3.24	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1972 10 06	095	(5.6+	7.9+)	1998 11 10	704	0.4−	0.6−	2000 03 11	704	0.4+	0.2−
1988 09 12	511	0.1+	1.4+	1998 11 11	704	0.1−	0.4+	2000 03 11	704	0.8+	0.8+
1988 09 12	511	2.0+	0.3−	1998 11 11	704	0.1+	0.4+	2000 03 11	704	0.0	0.3−
1988 09 12	511	1.3+	0.4−	1998 11 11	704	0.7−	0.8+	2000 03 11	704	0.8+	0.2+
1988 09 17	511	1.6−	0.4−	1998 11 11	704	0.3+	0.3+	2000 03 26	699	0.7−	1.0+
1988 09 17	511	1.7−	0.8−	1998 11 11	699	0.2+	0.7+	2000 03 26	699	1.0−	0.1+
1997 04 01	568	0.3+	0.1+	1998 11 11	704	0.4−	0.7+	2000 03 26	699	1.0−	0.3+
1997 04 02	568	0.9+	0.6−	1998 11 11	699	0.1+	0.8+	2000 03 26	699	0.6−	0.6+
1997 04 02	568	0.4−	0.3+	1998 11 11	699	0.2−	0.4+	2000 04 04	704	0.2−	0.5+
1998 08 31	704	1.0−	0.6+	1998 11 24	699	0.9+	0.6−	2000 04 04	704	0.3+	0.0
1998 08 31	704	1.0+	0.5−	1998 11 24	699	0.9+	0.4−	2000 04 04	704	0.0	0.4−
1998 08 31	704	1.8−	1.9+	1998 11 24	699	0.4+	0.1−	2000 04 04	704	0.2−	0.3+
1998 08 31	704	0.0	0.3−	1998 12 08	699	0.6+	0.9−	2000 04 05	704	0.1−	0.4+
1998 08 31	704	(2.5−	1.0−)	1998 12 08	699	0.2+	1.8−	2000 04 05	704	0.1+	0.0
1998 10 10	699	0.4−	0.5+	1998 12 08	699	0.1+	1.1−	2000 04 05	704	0.2−	0.4+
1998 10 10	699	0.2−	0.1+	2000 03 10	704	0.3+	0.2+	2000 04 05	704	0.2+	0.4+
1998 10 10	699	0.2−	0.1−	2000 03 10	704	0.1+	0.4+	2000 04 05	704	0.2+	0.6+
1998 11 10	704	0.1+	0.6+	2000 03 10	704	0.2−	0.0	2000 04 08	704	0.6−	1.5−
1998 11 10	704	0.0	0.4−	2000 03 10	704	0.1−	0.5−	2000 04 08	704	0.6−	1.7−
1998 11 10	704	0.4+	0.2+	2000 03 10	704	0.0	0.8−	2000 04 08	704	0.0	0.2+
1998 11 10	704	0.3−	0.1+	2000 03 11	704	0.5+	0.5−	2000 04 08	704	1.7+	1.5+

2000 ET₆₁ = 1997 RD₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	158.39168		(2000.0)	P		Q	
<i>n</i>	0.20184299	ω	137.64333	+0.95850870		−0.28467666	
<i>a</i>	2.8782395	Ω	238.90187	+0.25667584		+0.88453617	
<i>e</i>	0.0822964	<i>i</i>	0.99312	+0.12401040		+0.36953345	
<i>P</i>	4.88	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 07 08	688	0.3+	0.4−	2000 03 10	704	0.5+	0.5+	2000 04 05	704	0.1+	0.4−
1997 07 08	688	0.2−	0.4+	2000 03 11	704	0.3−	0.2−	2000 04 05	704	0.8+	0.7−
1997 09 06	910	0.2−	0.1+	2000 03 11	704	0.1+	0.0	2000 04 05	704	0.4−	0.7−
1997 09 06	910	0.2−	0.2+	2000 03 11	704	0.2+	0.4+	2000 04 06	704	0.4−	0.6−
1997 09 06	910	0.2−	0.3+	2000 03 11	704	0.2−	0.4+	2000 04 06	704	0.3−	0.0
1997 09 06	910	0.2+	0.1+	2000 03 11	704	0.0	0.3+	2000 04 06	704	0.3+	0.2−
1997 09 06	910	0.0	0.1+	2000 03 26	699	0.1−	0.2+	2000 04 06	704	0.1−	0.8−
1997 09 06	910	0.0	0.0	2000 03 26	699	1.8+	0.7+	2000 04 06	704	0.5+	0.2−
2000 03 10	704	0.1+	0.1+	2000 03 26	699	0.2−	0.3+	2000 04 07	699	0.5−	0.1+
2000 03 10	704	0.1−	0.3+	2000 03 26	699	0.4−	0.8+	2000 04 07	699	0.5−	0.6+
2000 03 10	704	0.3+	0.4+	2000 04 05	704	0.2+	0.7−	2000 04 07	699	0.6−	0.4−
2000 03 10	704	0.1+	0.2+	2000 04 05	704	0.0	0.2−	2000 04 07	699	0.6−	0.9+

2000 EX₆₁ = 1998 XV₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.20786		(2000.0)	P		Q	
<i>n</i>	0.29104920	ω	101.64608	+0.51893967		+0.85474179	
<i>a</i>	2.2550618	Ω	199.62662	−0.79633884		+0.47878236	
<i>e</i>	0.0899748	<i>i</i>	1.85399	−0.31071864		+0.20045928	
<i>P</i>	3.39	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 03 25	691	0.1−	0.3−	2000 03 10	704	1.1−	0.7−	2000 04 05	704	0.2+	0.3+
1993 03 25	691	0.1−	0.3−	2000 03 11	704	1.1+	0.6+	2000 04 05	704	0.2+	0.2+
1993 03 25	691	0.0	0.1−	2000 03 11	704	0.0	0.8+	2000 04 05	704	0.5+	0.4+
1998 12 15	910	0.1−	0.2+	2000 03 11	704	0.3+	0.8+	2000 04 06	704	0.1+	0.2−
1998 12 15	910	0.5−	0.3+	2000 03 11	704	0.2+	0.8−	2000 04 06	704	0.8+	0.1−
1998 12 15	910	0.3−	0.4+	2000 03 11	704	0.2+	0.1−	2000 04 06	704	0.5−	0.2+
1998 12 16	910	0.4+	0.2−	2000 03 26	699	1.3+	1.0+	2000 04 06	704	0.8−	0.1+
1998 12 16	910	0.0	0.2−	2000 03 26	699	0.7+	0.3−	2000 04 06	704	0.1+	0.4+
1998 12 16	910	0.4+	0.1−	2000 03 26	699	0.9−	0.1+	2000 04 07	699	1.4−	0.2−
2000 03 10	704	0.1+	0.3−	2000 03 26	699	1.0+	0.6+	2000 04 07	699	1.2−	0.1+
2000 03 10	704	0.3−	0.3−	2000 04 05	704	0.8+	0.1+	2000 04 07	699	1.1−	0.3−
2000 03 10	704	0.1−	1.6−	2000 04 05	704	0.5+	0.0	2000 04 07	699	0.5−	0.1−

2000 EH₆₂ = 1998 XC₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	162.13409		(2000.0)	P		Q	
<i>n</i>	0.23211557	ω	206.73038	+0.97890925		−0.20380797	
<i>a</i>	2.6222043	Ω	165.00923	+0.19583898		+0.91648760	
<i>e</i>	0.0956664	<i>i</i>	3.12626	+0.05817026		+0.34425687	
<i>P</i>	4.25	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	0.0	1.6−	2000 02 27	703	0.2+	0.7−	2000 03 26	699	0.2+	0.4+
1998 12 15	704	0.3+	0.9−	2000 02 27	703	1.0−	0.6+	2000 03 26	699	1.1−	0.2+
1998 12 15	704	0.0	0.1−	2000 02 27	703	0.4+	0.1−	2000 03 26	699	0.5+	1.3+
1998 12 15	704	0.2−	0.7+	2000 02 27	703	0.6+	0.1−	2000 03 26	699	0.4−	0.0
1998 12 16	704	1.6+	1.1+	2000 03 10	704	0.1−	0.5+	2000 04 05	704	0.4+	0.2−
1998 12 16	704	0.0	1.2+	2000 03 10	704	0.9+	0.1−	2000 04 05	704	0.5+	0.1−
1998 12 16	704	1.9+	1.0−	2000 03 10	704	0.3−	0.0	2000 04 05	704	0.3−	0.2−
1998 12 16	704	0.6−	1.2+	2000 03 10	704	0.3−	0.6−	2000 04 05	704	0.1+	0.3−
1998 12 22	704	1.6−	0.4−	2000 03 11	704	0.3−	0.5−	2000 04 06	704	0.3+	0.1+
1998 12 22	704	0.0	0.9−	2000 03 11	704	0.3−	0.4+	2000 04 06	704	0.4+	0.2−
1998 12 22	704	0.1+	0.3−	2000 03 11	704	0.2+	0.1−	2000 04 06	704	0.4+	0.5−
1998 12 22	704	1.0−	0.0	2000 03 11	704	0.7−	0.4−	2000 04 06	704	0.0	0.0
1998 12 22	704	0.4−	1.0+	2000 03 11	704	0.1−	0.1+	2000 04 06	704	0.3−	0.4+

2000 EL₆₂ = 1996 TV₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	220.15755		(2000.0)	P		Q	
<i>n</i>	0.15144957	ω	151.03274	+0.77590939		+0.63006360	
<i>a</i>	3.4857055	Ω	169.73255	−0.60739055		+0.75957352	
<i>e</i>	0.0611708	<i>i</i>	10.13862	−0.17041517		+0.16145563	
<i>P</i>	6.51	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 10 05	809	0.4+	0.4−	2000 03 10	704	0.3−	0.1−	2000 04 05	704	0.8+	1.0+
1996 10 05	809	1.2−	0.5+	2000 03 10	704	0.0	0.8+	2000 04 05	704	0.6−	0.0
1996 10 05	809	0.5−	0.7+	2000 03 11	704	0.3+	0.2+	2000 04 05	704	1.2+	0.2+
1996 10 06	809	0.3+	0.0	2000 03 11	704	0.1+	0.0	2000 04 05	704	0.6+	1.0−
1996 10 06	809	0.2+	0.0	2000 03 11	704	0.1+	0.3+	2000 04 07	699	0.5−	0.0
1996 10 06	809	0.6+	0.2−	2000 03 11	704	0.1+	0.6+	2000 04 07	699	1.1−	0.6−
2000 02 08	704	0.0	0.3−	2000 03 11	704	0.2+	0.8+	2000 04 07	699	0.4−	0.2−
2000 02 08	704	0.9+	0.1+	2000 03 14	703	0.7−	0.5+	2000 04 07	699	0.3−	0.2−
2000 02 08	704	0.1+	1.0−	2000 03 14	703	0.4+	0.2+	2000 04 08	704	0.3−	0.2−
2000 02 08	704	0.0	0.9−	2000 03 14	703	0.6+	0.8+	2000 04 08	704	0.1−	0.0
2000 02 08	704	0.2−	0.1−	2000 03 14	703	0.3−	0.1−	2000 04 08	704	0.2+	0.5−

2000 02 27	703	1.0−	0.4+	2000 03 15	120	0.1−	1.4−	2000 04 08	704	0.3+	0.3+
2000 02 27	703	1.1+	1.6+	2000 03 16	120	0.1−	0.6−	2000 04 08	704	0.5−	0.7−
2000 02 27	703	0.8−	0.4−	2000 03 26	699	0.4+	0.0	2000 04 10	704	0.2+	0.6−
2000 02 27	703	0.6+	0.5+	2000 03 26	699	0.1+	0.1+	2000 04 10	704	0.3+	0.1−
2000 03 10	704	0.3−	0.4−	2000 03 26	699	0.4−	0.2+	2000 04 10	704	0.3+	0.2−
2000 03 10	704	0.2−	0.0	2000 03 26	699	0.1−	0.6−	2000 04 10	704	0.3−	1.1+
2000 03 10	704	0.3+	0.1+	2000 04 05	704	0.4−	0.9+				

2000 EU₆₂ = 1994 XR₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	348.32814		(2000.0)	P		Q	
<i>n</i>	0.25617284	ω	170.56982	−0.99085313		+0.13435112	
<i>a</i>	2.4553533	Ω	17.16673	−0.12643351		−0.89152838	
<i>e</i>	0.1275822	<i>i</i>	2.45503	−0.04716605		−0.43258169	
<i>P</i>	3.85	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1992 01 31	691	0.7−	0.8−	1998 11 17	691	0.0	0.0	2000 03 26	699	0.1+	1.7+
1992 01 31	691	0.2+	1.0−	1998 11 24	691	0.1+	0.5−	2000 03 26	699	0.8−	1.6+
1992 01 31	691	0.4−	0.2−	1998 11 24	691	0.1−	0.4−	2000 03 26	699	1.0+	1.4+
1994 12 01	691	0.2−	0.1+	1998 11 24	691	0.1−	0.5+	2000 03 26	699	1.1+	0.5+
1994 12 01	691	0.0	0.6+	2000 03 10	704	0.6+	0.4+	2000 04 05	704	0.6+	0.8−
1994 12 01	691	0.6−	0.1+	2000 03 10	704	0.6+	0.0	2000 04 05	704	0.2+	0.2+
1994 12 02	691	0.2+	1.3+	2000 03 10	704	0.5+	1.0+	2000 04 05	704	0.2−	0.0
1994 12 02	691	0.8−	1.2+	2000 03 10	704	1.1+	1.3+	2000 04 05	704	0.2+	0.0
1994 12 02	691	0.3−	0.8+	2000 03 10	704	1.0+	0.8+	2000 04 05	704	0.3−	0.3−
1996 02 14	691	0.7−	0.5−	2000 03 11	704	0.7−	0.3+	2000 04 06	704	0.4−	0.3−
1996 02 14	691	0.5+	0.8−	2000 03 11	704	1.0−	0.4−	2000 04 06	704	0.1+	0.0
1996 02 14	691	0.0	0.5−	2000 03 11	704	0.4−	0.8−	2000 04 06	704	0.1+	0.0
1998 11 17	691	0.1−	0.4+	2000 03 11	704	0.6−	1.0−				
1998 11 17	691	0.1−	0.4+	2000 03 11	704	0.6−	0.2−				

2000 EN₆₃ = 1979 SZ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	206.07099		(2000.0)	P		Q	
<i>n</i>	0.21874183	ω	317.66591	+0.92862423		+0.36968655	
<i>a</i>	2.7280238	Ω	20.70167	−0.31210845		+0.82418884	
<i>e</i>	0.1682576	<i>i</i>	5.10364	−0.20061244		+0.42900421	
<i>P</i>	4.51	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 09 20	675	0.3+	0.1+	2000 03 11	704	0.6+	0.1+	2000 04 05	704	0.2+	0.1−
1979 09 21	675	0.3−	0.1−	2000 03 11	704	0.1−	0.3+	2000 04 06	704	0.7−	0.6+
2000 03 10	704	0.4−	1.4+	2000 03 11	704	0.3−	0.2−	2000 04 06	704	0.3−	0.5+
2000 03 10	704	0.5−	0.6−	2000 03 11	704	0.8+	0.3+	2000 04 06	704	0.2+	0.1+
2000 03 10	704	0.4−	0.3+	2000 04 05	704	0.6+	0.3−	2000 04 06	704	0.4+	0.2−
2000 03 10	704	0.7+	0.2−	2000 04 05	704	0.3−	0.1−	2000 04 06	704	0.4−	0.3−
2000 03 10	704	0.2−	1.1−	2000 04 05	704	0.4+	0.0				
2000 03 11	704	0.2−	0.3−	2000 04 05	704	0.2−	0.2−				

2000 EO₆₃ = 1993 TJ₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	25.89496		(2000.0)	P		Q	
<i>n</i>	0.21412057	ω	343.97835	−0.81711777		−0.57585336	
<i>a</i>	2.7671357	Ω	160.78926	+0.53740276		−0.77766870	
<i>e</i>	0.0882852	<i>i</i>	4.64968	+0.20860687		−0.25223859	
<i>P</i>	4.60	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	0.2−	0.6−	2000 03 11	704	0.4+	0.5+	2000 04 05	704	0.2+	0.2−
1993 10 09	809	0.5−	0.8+	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.2+	0.5−
1993 10 09	809	0.0	0.2−	2000 03 11	704	0.2+	0.1+	2000 04 06	704	0.7+	0.3+
1993 10 09	809	0.1+	0.6+	2000 03 11	704	1.0+	0.0	2000 04 06	704	0.3−	0.1−
1993 10 09	809	0.5−	0.1+	2000 03 26	699	0.1−	0.4+	2000 04 06	704	0.5+	0.5−
1993 10 09	809	0.5−	0.4−	2000 03 26	699	0.2−	0.3+	2000 04 06	704	0.0	0.0

2000 APR. 18

M.P.C. 40163

1993 10 11	809	0.9+	0.6−	2000 03 26	699	0.1−	0.3+	2000 04 07	699	0.6+	0.2+
1993 10 11	809	0.3+	0.3+	2000 03 26	699	0.8−	0.6+	2000 04 07	699	0.0	0.3+
1993 10 11	809	0.3+	0.2+	2000 03 28	704	1.1−	0.5−	2000 04 07	699	0.1−	0.9+
2000 02 27	703	0.4+	0.3+	2000 03 28	704	(2.2−	1.8+)	2000 04 08	704	0.3−	0.1−
2000 02 27	703	0.2+	0.6−	2000 03 28	704	0.9−	0.2−	2000 04 08	704	0.5−	0.4−
2000 02 27	703	0.3−	0.2+	2000 03 30	703	1.0−	0.9−	2000 04 08	704	0.4−	1.1−
2000 02 27	703	0.9−	0.4−	2000 03 30	703	1.3−	0.3+	2000 04 08	704	0.1+	0.6+
2000 03 10	704	0.1+	0.2−	2000 03 30	703	1.0−	0.2−	2000 04 08	704	0.6−	0.2+
2000 03 10	704	0.1+	0.2−	2000 03 30	703	0.8+	0.5−	2000 04 10	704	0.4+	0.0
2000 03 10	704	0.3+	0.2+	2000 04 05	704	0.2+	0.1−	2000 04 10	704	1.2+	1.0+
2000 03 10	704	0.4+	0.0	2000 04 05	704	0.8+	0.4−	2000 04 10	704	1.0−	0.7+
2000 03 10	704	0.4+	0.4+	2000 04 05	704	0.9+	0.6−				
2000 03 11	704	0.5+	0.3−	2000 04 05	704	0.4+	0.0				

2000 ER₆₄ = 1996 FY₂₂ = 1997 RV₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	328.16806		(2000.0)		P		Q
<i>n</i>	0.23446296	ω	20.19866	−0.79965372			+0.59998662
<i>a</i>	2.6046731	Ω	196.73694	−0.56167250			−0.76146448
<i>e</i>	0.1388271	<i>i</i>	4.75549	−0.21231565			−0.24533223
<i>P</i>	4.20	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 03 24	809	0.2+	0.4−	1997 09 08	910	0.0	0.1−	2000 04 05	704	0.6−	0.8−
1996 03 24	809	0.6−	0.3+	2000 03 10	704	0.1+	0.0	2000 04 05	704	0.2+	0.3−
1996 03 24	809	0.6−	1.2+	2000 03 10	704	0.1−	0.2+	2000 04 06	704	0.1+	0.2+
1996 03 27	809	0.2+	1.2+	2000 03 10	704	0.5−	0.2+	2000 04 06	704	0.9+	0.1+
1996 03 27	809	0.0	0.2+	2000 03 10	704	0.5−	0.1+	2000 04 06	704	(0.3−	3.1+)
1996 03 27	809	1.4−	0.8−	2000 03 10	704	0.6−	0.3+	2000 04 06	704	1.0+	0.2+
1996 04 17	809	0.1−	0.6−	2000 03 11	704	0.7+	0.1−	2000 04 06	704	0.1+	0.8+
1996 04 17	809	1.1+	0.7−	2000 03 11	704	0.3−	0.1+	2000 04 08	704	0.9−	0.1−
1996 04 17	809	0.8+	0.5−	2000 03 11	704	0.2+	0.3+	2000 04 08	704	0.2−	0.5−
1997 09 08	910	0.3−	0.6+	2000 03 11	704	0.2+	0.5−	2000 04 08	704	0.3+	2.0+
1997 09 08	910	0.2−	0.2+	2000 03 11	704	0.2+	0.6+	2000 04 08	704	1.0+	0.0
1997 09 08	910	0.1+	0.2+	2000 04 05	704	0.1+	0.5+	2000 04 12	608	0.3−	1.3−
1997 09 08	910	0.0	0.3+	2000 04 05	704	0.3+	0.5−	2000 04 12	608	0.2−	0.6−
1997 09 08	910	0.1−	0.2+	2000 04 05	704	0.3−	0.9+	2000 04 12	608	0.2−	0.2−

2000 ES₆₄ = 1998 YN₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	352.24997		(2000.0)		P		Q
<i>n</i>	0.24283554	ω	351.28738	−0.99700118			+0.07559802
<i>a</i>	2.5444537	Ω	193.08258	−0.06586757			−0.94118430
<i>e</i>	0.0330954	<i>i</i>	4.19046	−0.04062148			−0.32932820
<i>P</i>	4.06	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 08 13	691	0.3+	0.8+	2000 03 08	704	0.5−	0.3+	2000 04 04	704	0.1−	0.4−
1993 08 13	691	0.4+	0.5+	2000 03 08	704	0.0	0.3+	2000 04 05	704	0.4+	0.2−
1993 08 13	691	0.6+	0.6+	2000 03 08	704	0.6+	0.4−	2000 04 05	704	1.8+	0.6+
1993 08 14	010	(1.9+	3.5−)	2000 03 08	704	1.2+	0.0	2000 04 05	704	0.1−	0.8+
1993 08 14	010	1.3−	1.8−	2000 03 10	704	0.0	0.5+	2000 04 05	704	0.2+	0.7−
1993 08 14	010	(0.7+	3.0−)	2000 03 10	704	0.3−	0.5+	2000 04 06	704	0.3−	0.0
1998 11 23	699	0.0	0.3−	2000 03 10	704	0.3−	0.3+	2000 04 06	704	0.0	0.1−
1998 11 23	699	0.4+	0.1−	2000 03 10	704	0.5+	0.7−	2000 04 06	704	0.2−	0.1−
1998 11 23	699	0.1−	0.0	2000 03 10	704	0.2−	0.1+	2000 04 06	704	0.1+	0.3−
1998 11 24	704	1.4+	1.6+	2000 03 11	704	0.4+	0.1+	2000 04 06	704	0.5+	0.4−
1998 11 24	704	0.6−	1.0+	2000 03 11	704	0.5+	0.0	2000 04 07	699	1.1−	0.9−
1998 11 24	704	0.2+	0.8−	2000 03 11	704	0.3+	0.1−	2000 04 07	699	0.4−	0.9−
1998 11 24	704	0.6+	1.6−	2000 03 11	704	0.1+	0.1−	2000 04 07	699	0.8−	1.2−
1998 11 24	704	(2.4−	1.5−)	2000 03 11	704	0.1+	0.2−	2000 04 07	699	0.4−	0.3−
1998 12 22	691	0.1−	0.1+	2000 03 26	699	0.8−	0.8+	2000 04 08	704	0.3−	0.2−
1998 12 22	691	0.4−	0.1+	2000 03 26	699	0.6−	0.8+	2000 04 08	704	0.4+	0.1−
1998 12 22	691	0.1−	0.0	2000 03 26	699	0.8−	0.4+	2000 04 08	704	0.6+	1.1+
1998 12 27	691	0.4−	0.5−	2000 03 26	699	0.8−	1.5+	2000 04 08	704	0.5−	0.5+
1998 12 27	691	0.6−	0.2+	2000 04 04	704	0.7−	0.0	2000 04 08	704	1.0+	0.1−

1998 12 27	691	0.5−	0.0	2000 04 04	704	0.4+	0.5−
2000 03 08	704	(2.4−	2.3+)	2000 04 04	704	0.0	0.8−

2000 EF₆₅ = 1993 FS₇₄ = 1998 VY₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	134.53522		(2000.0)		P		Q
<i>n</i>	0.27850692	ω	42.38965	+0.81388515			−0.58086089
<i>a</i>	2.3222665	Ω	353.08000	+0.49751489			+0.70901271
<i>e</i>	0.1107986	<i>i</i>	6.59695	+0.30011648			+0.39987699
<i>P</i>	3.54	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 03 21	809	1.0−	0.5+	2000 03 10	704	0.6+	0.0	2000 04 04	704	1.4+	0.4+
1993 03 22	809	1.4+	0.3+	2000 03 10	704	0.2−	0.3−	2000 04 05	704	0.2−	0.4−
1998 11 10	704	1.2−	1.6−	2000 03 10	704	0.6+	0.8+	2000 04 05	704	0.2−	0.1−
1998 11 10	704	0.9−	0.2+	2000 03 10	704	0.6+	1.6+	2000 04 05	704	0.1−	0.1−
1998 11 10	704	0.1−	0.4+	2000 03 11	704	0.1+	0.5−	2000 04 05	704	0.0	0.1−
1998 11 10	704	0.7−	0.2−	2000 03 11	704	0.3+	0.3−	2000 04 05	704	0.2+	0.2+
1998 11 14	704	0.5+	0.6+	2000 03 11	704	0.3+	1.2−	2000 04 06	704	0.3+	0.3−
1998 11 14	704	0.1−	0.2+	2000 03 11	704	0.8−	0.9−	2000 04 06	704	0.0	0.1−
1998 11 14	704	0.4+	0.6−	2000 03 26	699	0.5−	0.0	2000 04 06	704	0.7+	0.5−
1998 11 14	704	0.3+	0.4+	2000 03 26	699	0.8−	0.1−	2000 04 06	704	0.5−	0.1+
1998 11 14	704	0.7+	0.3+	2000 03 26	699	0.3−	0.5+	2000 04 06	704	0.9−	0.4−
1998 11 16	704	1.0+	0.6+	2000 03 26	699	0.8−	0.3−	2000 04 07	699	0.3+	0.2+
1998 11 16	704	0.3−	0.8+	2000 04 04	704	0.4−	0.6−	2000 04 07	699	0.3−	0.2−
1998 11 16	704	1.3+	0.8−	2000 04 04	704	0.1+	0.4+	2000 04 07	699	0.9+	0.2+
1998 11 16	704	0.9−	0.5−	2000 04 04	704	1.2−	0.4+	2000 04 07	699	0.2−	0.2−
2000 03 10	704	0.6+	0.7+	2000 04 04	704	0.0	0.2+				

2000 ET₆₅ = 1995 FF₁₁ = 1997 TQ₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	235.24910		(2000.0)		P		Q
<i>n</i>	0.19591905	ω	311.62750	+0.69560027			+0.71842813
<i>a</i>	2.9359699	Ω	2.44846	−0.65101085			+0.63099046
<i>e</i>	0.1022385	<i>i</i>	1.51943	−0.30385051			+0.29276623
<i>P</i>	5.03	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 27	691	0.2−	0.2−	2000 03 10	704	0.1+	0.0	2000 04 05	704	0.8+	0.2+
1995 03 27	691	0.6−	0.0	2000 03 10	704	0.3+	0.2+	2000 04 06	704	0.9+	0.8+
1995 03 27	691	0.4−	0.0	2000 03 10	704	0.1+	0.2+	2000 04 06	704	1.6+	0.3+
1995 04 07	691	0.1+	1.7−	2000 03 11	691	0.4−	0.9−	2000 04 06	704	0.8+	0.0
1995 04 07	691	0.0	1.2−	2000 03 11	691	0.1−	0.3−	2000 04 07	704	0.4+	0.4+
1995 04 07	691	0.6−	0.5−	2000 03 11	704	0.4+	0.1−	2000 04 07	704	0.1+	0.6+
1997 10 02	691	0.4−	0.5−	2000 03 11	691	0.3−	0.4−	2000 04 07	704	0.6+	0.1+
1997 10 02	691	0.4−	0.1−	2000 03 11	704	0.5+	0.5+	2000 04 07	699	0.1+	0.2+
1997 10 02	691	0.5−	0.2−	2000 03 11	704	0.3+	0.1−	2000 04 07	704	0.2+	0.3−
1997 10 06	691	0.7+	0.0	2000 03 11	704	0.4+	0.3−	2000 04 07	699	0.7−	0.5+
1997 10 06	691	0.5+	0.3+	2000 03 11	704	0.2+	0.1−	2000 04 07	704	0.0	0.2+
1997 10 06	691	0.6+	0.2+	2000 03 26	699	0.7−	0.5+	2000 04 07	699	1.0−	0.2+
1997 10 11	557	0.2−	0.2−	2000 03 26	699	0.4−	1.7+	2000 04 07	699	0.2−	0.6+
1997 10 23	691	0.1−	0.1−	2000 03 26	699	0.7−	0.1+	2000 04 11	608	0.7−	1.5−
1997 10 23	691	0.0	0.1+	2000 03 26	699	1.0−	0.0	2000 04 11	608	0.4−	1.6−
1997 10 23	691	0.1−	0.1+	2000 04 05	704	0.6+	1.1+	2000 04 11	608	0.7−	1.1−
2000 03 10	704	0.1−	0.2+	2000 04 05	704	0.3+	0.3+				
2000 03 10	704	0.3+	0.4+	2000 04 05	704	0.1+	0.6+				

Residuals in seconds of arc

1996 03 12	691	1.1−	0.2−	2000 03 10	704	0.1+	0.2+	2000 04 05	704	0.3+	1.0+
1996 03 12	691	0.3−	0.0	2000 03 10	704	0.1−	0.4−	2000 04 05	704	0.1−	0.3−
1996 03 12	691	0.4−	0.2−	2000 03 11	704	0.4−	0.6+	2000 04 05	704	(0.8−	2.0−)
1996 03 18	691	0.6+	0.3+	2000 03 11	704	0.1−	0.1+	2000 04 05	704	0.5+	0.9−
1996 03 18	691	0.7+	0.1+	2000 03 11	704	0.7+	0.0	2000 04 05	704	0.2+	0.9−
1996 03 18	691	0.5+	0.1−	2000 04 05	704	0.3−	0.9−	2000 04 06	704	0.9−	0.6+
2000 03 10	704	0.4+	0.0	2000 04 05	704	(0.4+	2.3+)	2000 04 06	704	0.1+	0.9+
2000 03 10	704	0.0	0.1−	2000 04 05	704	0.9−	0.0	2000 04 06	704	0.4+	0.1+

2000 ER₆₇ = 1998 XR₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	131.31858		(2000.0)	P	Q
<i>n</i>	0.21686357	ω	220.24437	+0.70722795	−0.70697672
<i>a</i>	2.7437528	Ω	184.74979	+0.65914616	+0.66117594
<i>e</i>	0.0739796	<i>i</i>	2.45226	+0.25564619	+0.25105836
<i>P</i>	4.54	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 15	704	1.1+	0.2−	2000 03 11	704	0.3+	0.7+	2000 04 06	704	(7.9+	0.3+)
1998 12 15	704	0.3−	0.3+	2000 03 11	704	0.5+	0.3+	2000 04 07	699	0.3+	0.1−
1998 12 15	704	0.7−	0.9+	2000 03 11	704	0.3−	0.8+	2000 04 07	699	0.1−	0.5+
1998 12 15	704	0.1−	0.0	2000 03 11	704	0.5+	0.4+	2000 04 07	699	0.5+	0.5+
1998 12 15	704	(2.9−	2.0+)	2000 03 27	699	0.6−	0.2+	2000 04 07	699	0.4−	0.3+
1998 12 22	704	0.8+	0.2+	2000 03 27	699	0.6−	0.0	2000 04 10	704	0.5+	0.0
1998 12 22	704	0.2−	1.5−	2000 03 27	699	0.4−	0.3−	2000 04 10	704	0.0	1.6+
1998 12 22	704	0.5+	0.3+	2000 03 27	699	0.8−	0.2−	2000 04 10	704	0.1−	0.6+
1998 12 22	704	0.2−	0.3+	2000 04 05	704	1.0+	0.5−	2000 04 10	704	0.2−	0.7+
1998 12 22	704	1.0−	0.3−	2000 04 05	704	1.3+	0.7−	2000 04 10	704	1.0−	0.3+
2000 03 10	704	0.1+	1.5−	2000 04 05	704	1.4+	1.2−	2000 04 10	704	0.4−	0.0
2000 03 10	704	0.3+	0.2+	2000 04 05	704	0.4+	1.2−	2000 04 10	704	0.2−	1.1+
2000 03 10	704	0.2+	0.3+	2000 04 05	704	0.9+	1.2−	2000 04 10	704	1.1−	0.8−
2000 03 10	704	1.0−	0.9−	2000 04 06	704	0.8−	0.2−				
2000 03 11	704	0.2−	0.7+	2000 04 06	704	0.1+	0.3−				

2000 ES₆₇ = 1996 BG₆ = 1998 VB₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	162.41533		(2000.0)	P	Q
n	0.28623117	ω	11.09022	+0.96773590	−0.25194678
a	2.2802971	Ω	3.50730	+0.22702843	+0.86642748
e	0.1416997	i	2.97080	+0.10929465	+0.43107569
P	3.44	H	15.2	G 0.15	U 4

Residuals in seconds of arc

1996 01 18	691	0.2+	0.0	1998 11 18	704	0.2−	0.1+	2000 03 27	699	1.1−	0.2+
1996 01 18	691	0.0	0.2+	1998 11 18	704	0.5−	0.1−	2000 04 04	704	1.2+	0.5−
1996 01 18	691	0.1+	0.2−	1998 11 18	704	0.3+	0.6+	2000 04 04	704	0.5+	0.2−
1996 01 25	691	0.4−	0.2−	2000 03 10	704	0.7−	0.3+	2000 04 04	704	0.2+	0.7+
1996 01 25	691	0.0	0.3−	2000 03 10	704	1.0+	0.3+	2000 04 04	704	0.3+	0.4+
1998 11 10	699	0.6+	1.0+	2000 03 10	704	0.2−	0.6+	2000 04 05	704	0.0	0.2−
1998 11 10	699	0.1−	0.5+	2000 03 10	704	1.4−	0.2−	2000 04 05	704	0.4+	0.1−
1998 11 10	699	0.1−	0.5+	2000 03 11	704	0.9+	0.2+	2000 04 05	704	0.1−	0.4−
1998 11 11	704	0.2+	0.3−	2000 03 11	704	0.5−	0.8+	2000 04 05	704	0.1−	0.3−
1998 11 11	704	0.4+	1.3−	2000 03 11	704	0.2−	0.1−	2000 04 05	704	0.7+	0.2+
1998 11 11	704	0.9−	0.1−	2000 03 11	704	0.1+	0.1+	2000 04 06	704	0.9+	0.0
1998 11 11	704	0.5−	0.8−	2000 03 27	699	0.7−	0.4−	2000 04 06	704	0.3−	0.1+
1998 11 18	704	0.6+	0.3+	2000 03 27	699	0.4+	0.4−	2000 04 06	704	0.2−	0.3+
1998 11 18	704	0.0	0.1+	2000 03 27	699	0.7−	0.8−				

2000 EU₆₇ = 1993 SZ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	234.44719		(2000.0)	P	Q
n	0.23572604	ω	120.17983	+0.72771162	+0.68571136
a	2.5953604	Ω	196.54498	−0.64637062	+0.67812937
e	0.1031785	i	3.09068	−0.22943587	+0.26446264
P	4.18	H	14.8	G 0.15	U 5

Residuals in seconds of arc

1993 09 17	809	(2.8+	3.2+)	2000 03 10	704	0.1+	0.2−	2000 04 05	704	0.0	0.1−
1993 09 17	809	(2.7+	1.4+)	2000 03 10	704	0.1+	0.8−	2000 04 05	704	0.1−	0.2+
1993 09 17	809	(2.3+	3.2+)	2000 03 10	704	0.5−	0.7+	2000 04 05	704	0.7+	1.2−
1993 09 18	809	0.7+	1.2+	2000 03 11	704	0.2+	0.0	2000 04 05	704	0.4−	1.6−
1993 09 18	809	0.1+	1.4+	2000 03 11	704	0.9−	0.1−	2000 04 05	704	0.1+	0.6−
1993 09 18	809	1.2−	0.4+	2000 03 11	704	0.3−	0.3−	2000 04 06	704	0.9+	0.0
1993 09 22	809	(3.1−	2.1−)	2000 03 11	704	0.7+	0.2−	2000 04 06	704	0.1−	0.2+
1993 09 22	809	1.2−	1.2−	2000 03 27	699	0.8+	0.8+	2000 04 06	704	0.4+	0.1+
1993 09 22	809	(4.1−	3.1−)	2000 03 27	699	0.3+	0.5+	2000 04 06	704	0.2−	1.1−
1993 09 22	675	1.6+	1.1−	2000 03 27	699	1.2−	0.3+	2000 04 07	699	1.1−	0.8+
1993 09 22	675	0.3+	0.4+	2000 03 27	699	0.4+	1.2+	2000 04 07	699	0.3−	0.3+
1993 09 24	809	0.0	1.8−	2000 04 04	704	0.6+	0.9−	2000 04 07	699	0.0	0.7+
1993 09 24	809	(0.5−	2.8−)	2000 04 04	704	0.4−	0.1+	2000 04 07	699	0.6−	0.6+
1993 09 24	809	(3.0−	3.3−)	2000 04 04	704	0.5+	0.7−				
2000 03 10	704	0.1+	0.3+	2000 04 04	704	0.0	0.1+				

2000 EY₆₇ = 1992 EG₁₉ = 1998 US₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	85.66045		(2000.0)	P	Q
n	0.25332050	ω	82.21023	+0.20661382	−0.97839196
a	2.4737501	Ω	355.84174	+0.85035626	+0.18347733
e	0.1050210	i	6.12775	+0.48394728	+0.09531658
P	3.89	H	14.7	G 0.15	U 3

Residuals in seconds of arc

1992 03 01	809	0.2+	0.1+	2000 03 08	704	0.3+	1.5+	2000 04 05	704	0.1+	0.0
1992 03 06	809	0.1−	0.2+	2000 03 10	704	0.1+	0.7+	2000 04 05	704	0.2+	0.4−
1998 10 28	704	0.1−	0.3−	2000 03 10	704	0.6+	0.2−	2000 04 05	704	0.1+	0.5−
1998 10 28	704	(0.6+	2.5+)	2000 03 10	704	0.8+	0.5−	2000 04 05	704	0.1+	1.0−
1998 10 28	704	0.9−	0.0	2000 03 11	704	0.1−	0.4+	2000 04 05	704	0.1−	0.7−
1998 10 28	704	1.6−	1.0+	2000 03 11	704	0.1−	0.5+	2000 04 06	704	0.0	0.0
1998 10 29	704	(0.9+	2.1−)	2000 03 11	704	0.0	0.0	2000 04 06	704	0.6−	0.2−
1998 10 29	704	0.5+	0.5+	2000 03 11	704	0.2−	0.3+	2000 04 06	704	0.1−	0.6−
1998 10 29	704	0.8+	0.7+	2000 03 11	704	0.1+	0.6+	2000 04 06	704	0.3+	0.4+
1998 10 29	704	0.8+	0.4−	2000 03 14	703	0.4−	0.1+	2000 04 06	704	0.9−	0.6−
1998 10 29	704	0.6+	1.5−	2000 03 14	703	0.1+	0.1+	2000 04 07	699	0.4+	0.0
2000 02 27	691	0.6−	0.6−	2000 03 14	703	0.5+	0.3+	2000 04 07	699	0.1+	0.4−
2000 02 27	691	0.6−	1.0−	2000 03 14	703	0.6−	0.0	2000 04 07	699	0.1−	0.1−
2000 02 27	691	0.6−	0.6−	2000 03 26	699	0.1−	0.6+	2000 04 07	699	0.2−	0.1−
2000 03 08	704	0.4−	1.8−	2000 03 26	699	0.2−	0.2−	2000 04 10	704	0.3+	0.1+
2000 03 08	704	0.4−	0.0	2000 03 26	699	0.4−	0.5+	2000 04 10	704	1.3+	1.3+
2000 03 08	704	1.1+	0.8+	2000 03 26	699	0.4−	0.1−	2000 04 10	704	0.5+	1.2+

2000 ES₆₈ = 1993 FK₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	269.53354		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28269851	ω	117.69426	+0.45162668	+0.89220663
a	2.2992544	Ω	179.15252	−0.83699687	+0.42400030
e	0.2465869	i	3.20172	−0.30898154	+0.15553484
P	3.49	H	15.7	G 0.15	U 4

Residuals in seconds of arc

1993 03 19	809	0.2+	0.3−	2000 03 11	704	0.4+	0.3+	2000 04 05	704	0.2−	0.1+
1993 03 20	809	0.1−	0.4+	2000 03 11	704	0.1−	0.8−	2000 04 05	704	0.1+	0.3+
1993 03 24	809	(3.5+	2.6−)	2000 03 11	704	0.9+	0.0	2000 04 05	704	0.9+	0.2−
2000 03 10	704	0.1−	0.0	2000 03 11	704	0.4−	0.2−	2000 04 05	704	0.2−	0.3−

2000 APR. 18

2000 03 10	704	0.6+	0.2−	2000 03 11	704	1.1−	0.2−	2000 04 06	704	0.7−	0.1+
2000 03 10	704	0.1+	0.0	2000 03 11	704	0.1−	0.6+	2000 04 06	704	0.4−	0.1+
2000 03 10	704	0.4+	0.1+	2000 03 11	704	0.6−	0.6+	2000 04 06	704	0.2−	0.6−
2000 03 11	704	0.2−	0.4−	2000 04 05	704	0.6+	0.4+	2000 04 06	704	0.2+	0.1+

2000 EU₆₈ = 1997 TP₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	344.30748	<i>ω</i>	160.21837	−0.93148085	+0.36332114		
<i>a</i>	3.1943200	<i>Ω</i>	41.10095	−0.33743957	−0.84392386		
<i>e</i>	0.1392638	<i>i</i>	1.61006	−0.13593364	−0.39470276		
<i>P</i>	5.71	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 02 16	691	0.2−	0.3−	2000 03 11	704	0.2+	0.2−	2000 04 05	704	0.1+	0.4−
1994 02 16	691	0.1+	0.4+	2000 03 11	704	0.1+	0.3−	2000 04 05	704	0.2−	0.3−
1994 02 16	691	0.2+	0.2+	2000 03 11	704	0.0	0.2+	2000 04 06	704	0.3+	0.3+
1997 10 03	691	1.0+	0.4−	2000 03 11	704	0.3−	0.2−	2000 04 06	704	0.3+	1.1+
1997 10 03	691	1.1+	0.1+	2000 03 11	704	0.1−	0.0	2000 04 06	704	0.4−	1.3−
1997 10 03	691	0.1+	0.7−	2000 03 11	704	0.2+	1.0+	2000 04 06	704	0.3−	0.9+
1997 10 10	691	0.0	0.1+	2000 03 11	704	0.2−	0.7+	2000 04 06	704	0.2+	0.2+
1997 10 10	691	0.2−	0.0	2000 03 11	704	0.4+	0.2+	2000 04 07	699	0.2+	0.2+
1997 10 10	691	0.2−	0.3−	2000 03 11	704	0.1+	0.6+	2000 04 07	699	0.9−	0.1−
1997 10 21	691	0.2−	0.1−	2000 03 11	704	0.7+	0.6+	2000 04 07	699	0.3−	0.5−
1997 10 21	691	0.3−	0.1−	2000 03 13	704	0.5−	1.1+	2000 04 07	699	0.5−	1.1+
1997 10 21	691	0.6−	0.1−	2000 03 13	704	0.7+	0.6+	2000 04 10	608	0.2−	1.7−
2000 03 10	704	0.7+	0.1+	2000 03 13	704	0.7+	0.0	2000 04 10	608	0.1+	1.9−
2000 03 10	704	0.1+	0.5−	2000 04 05	704	0.5+	0.3−	2000 04 10	608	0.3−	1.2−
2000 03 10	704	1.5−	0.3−	2000 04 05	704	0.1+	0.1−				
2000 03 10	704	0.6−	0.8−	2000 04 05	704	0.3−	0.2−				

2000 EW₆₈ = 1996 HW₆

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24341855	<i>ω</i>	55.06371	−0.69473649	+0.71911244		
<i>a</i>	2.5403893	<i>Ω</i>	170.88491	−0.68659706	−0.65691993		
<i>e</i>	0.0912925	<i>i</i>	5.35400	−0.21430278	−0.22656897		
<i>P</i>	4.05	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 04 18	691	0.1−	0.1+	2000 03 11	704	0.3+	0.4+	2000 03 27	699	0.8−	1.0+
1996 04 18	691	0.2−	0.5+	2000 03 11	704	0.1−	0.9+	2000 04 05	704	0.1−	0.7+
1996 04 18	691	0.1+	0.3+	2000 03 11	704	0.0	0.0	2000 04 05	704	0.5+	0.1+
1996 04 23	691	0.0	0.4−	2000 03 26	684	0.2+	0.9−	2000 04 05	704	0.5−	0.1+
1996 04 23	691	0.0	0.3−	2000 03 26	684	0.5+	1.6−	2000 04 05	704	0.8+	0.6+
1996 04 23	691	0.1+	0.4−	2000 03 27	684	0.5+	1.1−	2000 04 06	704	0.2+	0.0
2000 03 10	704	1.0+	0.1+	2000 03 27	684	0.2−	1.3−	2000 04 06	704	0.1−	0.3+
2000 03 10	704	0.4+	0.6−	2000 03 27	699	0.1+	0.6−	2000 04 06	704	0.7−	0.1−
2000 03 10	704	0.2−	0.2+	2000 03 27	699	0.1−	0.5+	2000 04 06	704	0.1+	1.3+
2000 03 11	704	0.7−	0.3−	2000 03 27	699	1.0−	0.5+				

2000 EX₆₈ = 1996 DD₆ = 1997 PL₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26502238	<i>ω</i>	97.51694	−0.45811799	+0.88873872		
<i>a</i>	2.4003856	<i>Ω</i>	145.20213	−0.82650336	−0.41907026		
<i>e</i>	0.1549989	<i>i</i>	1.65423	−0.32713928	−0.18580532		
<i>P</i>	3.72	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 02 16	010	1.1+	0.4−	2000 03 11	704	0.3+	0.6+	2000 04 06	704	0.0	0.7−
1996 02 16	010	0.3+	1.3+	2000 03 11	704	0.5−	0.2−	2000 04 06	704	0.1−	0.5−
1996 02 16	010	0.5+	1.1+	2000 03 11	704	0.1−	0.5−	2000 04 07	699	0.3+	0.8+
1996 02 17	010	1.1−	1.4−	2000 03 11	704	0.1−	0.1−	2000 04 07	699	1.4+	0.1+

M.P.C. 40165

1996 02 17	010	(0.6+	2.4+)	2000 03 11	704	0.1−	0.1+	2000 04 07	704	0.5−	0.7+
1996 02 17	010	0.5−	0.6+	2000 03 11	704	0.1+	0.6−	2000 04 07	699	0.0	0.7+
1997 08 04	684	0.2+	0.3+	2000 03 14	691	0.3−	1.0−	2000 04 07	704	0.4−	0.6+
1997 08 04	684	0.3+	0.4+	2000 03 14	691	0.5−	1.1−	2000 04 07	699	0.0	1.2+
1997 08 04	684	0.0	0.4+	2000 03 14	691	0.5−	1.0−	2000 04 07	704	0.7−	0.0
1997 08 05	684	0.1−	0.4−	2000 03 26	699	0.6−	0.2+	2000 04 07	704	0.1−	0.1+
1997 08 05	684	0.3−	0.2−	2000 03 26	699	0.5−	0.2+	2000 04 07	704	0.2−	0.0
1997 08 05	684	0.2−	0.3−	2000 03 26	699	0.9−	0.4+	2000 04 08	704	0.5−	0.2−
2000 03 10	704	0.9+	0.7+	2000 03 26	699	0.2−	0.6+	2000 04 08	704	1.7+	0.5+
2000 03 10	704	0.0	0.7−	2000 04 05	704	0.4+	0.1−	2000 04 08	704	0.1+	0.0
2000 03 10	704	0.8−	0.3−	2000 04 05	704	0.2−	0.1+	2000 04 08	704	0.0	0.0
2000 03 10	704	1.2+	0.7+	2000 04 05	704	0.5−	0.1+	2000 04 08	704	0.1−	0.0
2000 03 10	704	0.8+	0.3−	2000 04 05	704	0.1+	0.3+	2000 04 10	704	0.2+	0.2+
2000 03 11	704	0.4−	0.1−	2000 04 05	704	0.3+	1.3−	2000 04 10	704	0.2+	0.7+
2000 03 11	704	0.0	0.3−	2000 04 06	704	0.4+	0.1−	2000 04 10	704	1.2+	1.0+
2000 03 11	704	0.3−	0.2+	2000 04 06	704	0.4+	0.1+	2000 04 10	704	0.3−	0.4+
2000 03 11	704	0.0	0.5−	2000 04 06	704	0.5−	0.9−	2000 04 10	704	0.7−	1.3−

2000 EA₆₉ = 1997 WN₅₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17235321	<i>ω</i>	259.04331	+0.89164595	+0.45148668		
<i>a</i>	3.1978381	<i>Ω</i>	74.11043	−0.40055004	+0.82126555		
<i>e</i>	0.1719178	<i>i</i>	2.00053	−0.21101462	+0.34883043		
<i>P</i>	5.72	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 11 29	704	(6.8−	0.5−)	2000 03 10	704	0.2−	0.5+	2000 04 05	704	0.4+	0.5+
1997 11 29	704	(6.2−	0.7+)	2000 03 10	704	0.1−	0.0	2000 04 05	704	0.0	0.5+
1997 11 29	704	(5.3−	0.2+)	2000 03 10	704	0.8+	0.1+	2000 04 05	704	0.7+	0.1+
1997 11 29	704	(5.6−	2.0−)	2000 03 11	704	0.6+	0.0	2000 04 05	704	0.1−	0.1−
1997 12 05	704	0.6+	0.4+	2000 03 11	704	0.8+	1.3+	2000 04 05	704	0.1−	0.4−
1997 12 05	704	0.4−	0.5+	2000 03 11	704	1.8−	0.4+	2000 04 06	704	0.5−	0.4−
1997 12 05	704	0.1+	0.5+	2000 03 14	691	0.3−	0.9−	2000 04 06	704	1.1+	0.2+
1997 12 05	704	0.8−	0.2+	2000 03 14	691	0.5−	0.9−	2000 04 06	704	0.2+	0.0
1997 12 05	704	0.7+	0.7−	2000 03 14	691	0.1−	0.7−	2000 04 06	704	0.6−	0.1−
1997 12 31	704	1.1+	0.1+	2000 03 27	699	0.4+	0.4+	2000 04 06	699	1.0−	0.1+
1997 12 31	704	0.3−	0.2−	2000 03 27	699	0.7+	0.3−	2000 04 06	699	0.2−	0.2+
1997 12 31	704	0.1−	0.8−	2000 03 27	699	0.2−	0.6−	2000 04 06	699	0.7−	0.6−
1997 12 31	704	0.9−	0.2−	2000 03 27	699	0.1−	0.1+	2000 04 06	699	0.7+	0.5+

2000 ED₆₉ = 1998 VG₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>		(2000.0)		P		Q	
<i>n</i>	131.44745	<i>ω</i>	28.12477	+0.76594222	−0.64238864		
<i>a</i>	2.3688092	<i>Ω</i>	11.95245	+0.56395358	+0.65201054		
<i>e</i>	0.1164178	<i>i</i>	7.17642	+0.30868896	+0.40276432		
<i>P</i>	3.65	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.6+	0.2−	2000 03 10	704	0.0	0.5+	2000 04 04	704	0.8−	0.3−
1998 11 10	704	0.0	0.5+	2000 03 10	704	0.0	0.0	2000 04 04	704	0.5+	0.3−
1998 11 10	704	0.1+	0.2+	2000 03 10	704	0.6+	0.5+	2000 04 04	704	0.1−	0.5+
1998 11 10	704	0.3−	1.3+	2000 03 10	704	1.0+	0.4+	2000 04 05	704	0.0	0.3−
1998 11 11	704	0.2+	0.4−	2000 03 11	704	0.3−	0.8−	2000 04 05	704	0.0	0.2−
1998 11 11	704	0.4−	0.4−	2000 03 11	704	0.6−	0.6−	2000 04 05	704	0.4+	0.2+
1998 11 11	704	0.5+	0.1+	2000 03 11	704	1.8−	1.1−	2000 04 05	704	0.2−	0.4−
1998 11 11	704	0.4−	0.7−	2000 03 11	704	0.7−	0.8−	2000 04 05	704	0.1+	0.0
1998 11 11	704	0.2−	0.4−	2000 03 27	699	0.1+	0.1−	2000 04 06	704	0.2−	0.3−
2000 03 01	703	0.6+	0.1−	2000 03 27	699	0.5−	1.0−	2000 04 06	704	0.1+	0.1+
2000 03 01	703	1.3+	0.2+	2000 03 27	699	0.7−	0.8+	2000 04 06	704	0.0	0.1+
2000 03 01	703	0.7−	1.7+	2000 03 27	699	0.5+	1.4+	2000 04 06	704	0.2+	0.0
2000 03 01	703	0.5+	0.7−	2000 04 04	704	0.8+	0.2+				

2000 EL₆₉ = 1996 HA₁₀ = 1998 XZ₇₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22832736	ω	216.93817	+0.59822625	−0.80118200		
<i>a</i>	2.6511283	Ω	196.33665	+0.74756025	+0.56484198		
<i>e</i>	0.0936028	<i>i</i>	3.10913	+0.28858104	+0.19763839		
<i>P</i>	4.32	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 17	809	0.3+	1.6+	2000 03 10	704	0.2+	0.5+	2000 04 05	704	0.0	0.2−
1996 04 17	809	0.1−	1.0+	2000 03 11	704	0.0	0.7+	2000 04 05	704	0.1+	0.6−
1996 04 17	809	0.1−	0.8+	2000 03 11	704	0.2+	0.5+	2000 04 05	704	0.3+	0.4−
1996 04 18	809	0.5+	0.6+	2000 03 11	704	0.2+	0.3+	2000 04 05	704	0.2+	1.2−
1996 04 18	809	0.0	0.5+	2000 03 11	704	0.6+	1.8+	2000 04 06	704	0.3+	0.4+
1996 04 18	809	0.3+	1.3−	2000 03 27	699	0.2+	0.3+	2000 04 06	704	0.1+	0.2−
1998 12 15	704	0.2−	1.0−	2000 03 27	699	0.4+	0.2−	2000 04 06	704	0.5+	0.2+
1998 12 15	704	0.1+	0.4−	2000 03 27	699	0.5+	0.2+	2000 04 06	704	0.2+	0.5−
1998 12 15	704	0.1−	0.7+	2000 03 27	699	0.1+	0.1−	2000 04 06	704	1.0+	0.0
1998 12 15	704	0.4−	0.7−	2000 03 30	691	0.8−	0.8−	2000 04 07	704	0.2+	0.6−
1998 12 15	704	0.1−	0.0	2000 03 30	691	0.9−	0.7−	2000 04 07	704	0.3+	0.2−
1998 12 16	704	0.9−	0.1+	2000 03 30	691	0.9−	0.7−	2000 04 07	704	0.1−	0.9+
1998 12 16	704	0.6−	0.7−	2000 04 01	691	1.6−	0.7−	2000 04 07	704	0.1−	0.6−
1998 12 16	704	1.6+	0.5+	2000 04 01	691	1.7−	0.9−	2000 04 07	704	0.1−	0.4−
1998 12 16	704	0.0	1.4+	2000 04 01	691	1.8−	0.6−	2000 04 08	704	1.0+	0.2−
1998 12 16	704	0.6+	1.0+	2000 04 02	699	0.2+	0.4−	2000 04 08	704	0.5+	0.6+
2000 03 10	704	1.2+	0.2+	2000 04 02	699	0.5−	0.6−	2000 04 08	704	0.7+	0.2−
2000 03 10	704	0.4+	0.0	2000 04 02	699	1.0−	0.6−	2000 04 10	704	0.5−	0.7+
2000 03 10	704	0.5−	0.4+	2000 04 02	699	0.5−	0.7+	2000 04 10	704	0.0	0.5+
2000 03 10	704	1.3+	0.7+	2000 04 05	704	0.3−	0.0	2000 04 10	704	0.3−	0.7−

2000 EN₆₉ = 1996 AM₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29524291	ω	303.79209	+0.63074258	+0.77596891		
<i>a</i>	2.2336565	Ω	5.32477	−0.68886097	+0.56346583		
<i>e</i>	0.2167809	<i>i</i>	3.70938	−0.35725951	+0.28351105		
<i>P</i>	3.34	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 01 12	691	0.6+	0.3+	2000 03 27	699	1.0−	0.2−	2000 04 07	699	0.5−	0.3+
1996 01 12	691	0.6+	0.3−	2000 04 04	704	0.2+	0.2+	2000 04 07	699	0.6−	0.1+
1996 01 18	691	0.5−	0.2−	2000 04 04	704	0.3+	0.5−	2000 04 07	699	0.6−	0.3+
1996 01 18	691	0.4−	0.1+	2000 04 04	704	0.2+	0.2−	2000 04 07	699	0.8−	0.6+
1996 01 18	691	0.3−	0.1+	2000 04 04	704	0.4+	0.3+	2000 04 08	704	0.1+	0.6−
2000 03 10	704	0.3+	0.0	2000 04 04	704	0.5−	0.5−	2000 04 08	704	0.5+	0.1−
2000 03 10	704	0.4+	0.2−	2000 04 05	704	0.3+	0.2−	2000 04 08	704	0.3+	0.1+
2000 03 10	704	0.2+	0.2+	2000 04 05	704	0.4+	0.2−	2000 04 08	704	0.8+	0.2+
2000 03 10	704	0.5+	0.1−	2000 04 05	704	0.5+	0.4−	2000 04 08	704	0.7+	0.6+
2000 03 11	704	0.1−	0.1+	2000 04 05	704	0.1+	0.5−	2000 04 10	704	1.6−	0.2−
2000 03 11	704	0.3−	0.2+	2000 04 05	704	0.1+	0.3−	2000 04 10	704	0.6+	0.3+
2000 03 11	704	0.1−	0.1+	2000 04 06	704	0.5−	0.1−	2000 04 10	704	0.5+	0.4+
2000 03 11	704	0.7+	0.8+	2000 04 06	704	0.1−	0.1−	2000 04 10	704	0.2+	0.3+
2000 03 27	699	0.5−	0.1−	2000 04 06	704	0.0	0.1−	2000 04 10	704	0.3−	0.2+
2000 03 27	699	0.6−	0.0	2000 04 06	704	1.5+	0.8−				
2000 03 27	699	0.7−	0.5+	2000 04 06	704	0.6−	0.1−				

2000 ET₆₉ = 1994 SQ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26577162	ω	351.89395	−0.98990366	−0.14174179		
<i>a</i>	2.3958722	Ω	179.95695	+0.13677518	−0.95541712		
<i>e</i>	0.1499703	<i>i</i>	8.27017	+0.03719270	−0.25901235		
<i>P</i>	3.71	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 09 29	691	0.1−	0.3+	2000 03 11	704	(2.8−	1.3+)	2000 04 06	699	0.2−	0.2−
1994 09 29	691	0.1+	0.6+	2000 03 11	704	1.6+	1.1−	2000 04 06	704	0.2−	0.6−
1994 09 29	691	0.4+	0.6+	2000 04 04	704	0.5−	0.1+	2000 04 06	699	0.5+	0.2+
1994 09 30	691	0.3−	0.4−	2000 04 04	704	0.1−	0.1+	2000 04 06	704	0.0	0.1+
1994 09 30	691	0.4−	0.1−	2000 04 04	704	0.5−	0.2+	2000 04 06	704	0.5+	0.8−
1994 09 30	691	0.0	0.5+	2000 04 04	704	0.2−	0.8+	2000 04 06	699	0.1+	0.2+
2000 03 10	704	0.8−	0.1+	2000 04 04	704	0.5−	0.4+	2000 04 08	704	0.1−	0.9+
2000 03 10	704	0.2+	0.2−	2000 04 05	704	0.2+	0.1+	2000 04 08	704	1.3+	0.4−
2000 03 10	704	0.4−	0.1+	2000 04 05	704	0.2+	0.1−	2000 04 08	704	0.3−	0.4+
2000 03 10	704	1.4−	0.4+	2000 04 05	704	0.5−	0.2−	2000 04 08	704	0.3+	0.2−
2000 03 11	704	0.0	0.6+	2000 04 05	704	0.3+	1.0−	2000 04 10	704	0.4−	0.5+
2000 03 11	704	0.1+	0.6+	2000 04 05	704	0.7−	0.9−	2000 04 10	704	0.1+	0.4+
2000 03 11	704	0.3+	0.3+	2000 04 06	704	0.8+	1.3−	2000 04 10	704	0.4−	0.2+
2000 03 11	704	(1.0−	2.7+)	2000 04 06	699	0.3+	0.2+	2000 04 10	704	0.2+	0.5+
2000 03 11	704	1.2+	0.1+	2000 04 06	704	0.3−	0.6+				

2000 EZ₆₉ = 1993 KC₁ = 1994 RL₂₄ = 1998 UA₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	93.85905	ω	241.82984	+0.22726472	−0.97340071		
<i>a</i>	2.3774809	Ω	195.11802	+0.92794177	+0.22549704		
<i>e</i>	0.0994856	<i>i</i>	6.38713	+0.29542311	+0.04052326		
<i>P</i>	3.67	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 05 21	691	0.4−	0.4−	1998 10 28	704	(2.9+	1.0+)	2000 03 11	704	0.0	0.7+
1993 05 21	691	0.5−	0.4−	1998 10 28	704	1.1+	0.3+	2000 03 11	704	1.1+	1.1+
1993 05 21	691	0.1+	0.5−	1998 10 29	704	(2.5−	1.4+)	2000 03 11	704	0.1+	0.6+
1993 05 24	691	0.6−	0.4−	1998 10 29	704	0.0	1.2−	2000 03 29	691	0.3−	0.3−
1993 05 24	691	0.6+	0.7−	1998 10 29	704	1.7−	0.4−	2000 03 29	691	0.2−	1.1−
1993 05 24	691	0.5−	1.0−	1998 10 29	704	0.6−	0.9+	2000 03 29	691	0.2−	0.4−
1994 09 05	809	0.3−	1.5+	1998 10 29	704	1.0−	0.6−	2000 04 05	704	0.4+	0.7+
1994 09 05	809	(0.1+	2.4+)	1998 11 11	704	0.3+	0.2−	2000 04 05	704	0.1+	0.2+
1994 09 05	809	1.3−	1.5+	1998 11 11	704	0.1−	0.1−	2000 04 05	704	0.3+	0.7+
1994 09 06	809	0.7+	1.3+	1998 11 11	704	0.0	0.0	2000 04 05	704	0.7−	0.2+
1994 09 06	809	0.0	1.6+	1998 11 11	704	0.7+	0.1−	2000 04 05	704	0.1−	0.5+
1994 09 06	809	0.2−	0.2−	1998 11 11	704	0.6+	0.0	2000 04 07	704	0.1+	0.1−
1998 10 14	699	0.1−	0.3+	2000 03 10	704	0.2+	0.7+	2000 04 07	704	0.2+	0.7+
1998 10 14	699	(0.3+	2.2+)	2000 03 10	704	0.2+	0.8+	2000 04 07	704	0.8+	0.4+
1998 10 14	699	0.1−	1.4+	2000 03 10	704	0.1−	0.4+	2000 04 07	704	0.9+	1.8+
1998 10 28	704	0.3+	0.5−	2000 03 10	704	0.1+	1.4+	2000 04 07	704	0.2+	0.1+
1998 10 28	704	0.2−	1.3+	2000 03 10	704	(1.4−	2.2+)				

2000 ED₇₀ = 1999 CX₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	93.19757	ω	258.36681	+0.26810648	−0.96332194		
<i>a</i>	3.9755484	Ω	176.02664	+0.93550854	+0.25750515		
<i>e</i>	0.1818940	<i>i</i>	9.46208	+0.23009279	+0.07551125		
<i>P</i>	7.93	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 15	699	0.3−	0.1−	2000 03 08	704	0.6+	0.1+	2000 04 04	704	0.5+	0.4−
1999 01 15	699	0.2−	0.0	2000 03 08	704	1.2+	1.8+	2000 04 04	704	0.0	0.8+
1999 01 15	699	0.1−	0.2−	2000 03 10	704	0.5−	0.6−	2000 04 04	704	0.7−	0.5+
1999 02 12	704	0.4+	0.6−	2000 03 10	704	0.5+	0.2+	2000 04 06	699	0.3−	0.2+
1999 02 12	704	1.2+	1.2−	2000 03 10	704	0.4+	0.0	2000 04 06	699	0.2+	0.1−
1999 02 12	704	0.1−	0.4−	2000 03 10	704	0.4+	0.1−	2000 04 06	699	0.2−	0.1−
1999 02 12	704	0.6+	0.3+	2000 03 11	704	0.5−	0.7−	2000 04 06	699	0.0	0.1−
1999 02 12	704	1.0+	0.3+	2000 03 11	704	0.5−	0.5−	2000 04 07	699	0.1−	0.2−
1999 02 16	704	0.9−	0.5+	2000 03 11	704	0.5−	0.2−	2000 04 07	699	0.2+	0.6−
1999 02 16	704	0.2+	1.1+	2000 03 11	704	1.3−	0.6−	2000 04 07	699	0.1−	0.6−
1999 02 16	704	0.3−	0.1−	2000 04 03	704	0.1+	0.5+	2000 04 07	699	0.0	0.2−
1999 02 16	704	1.8−	0.2−	2000 04 03	704	0.4−	0.4+	2000 04 10	704	0.4+	0.6−
1999 02 16	704	(2.3−	2.5+)	2000 04 03	704	0.1+	1.0+	2000 04 10	704	0.1+	0.6−

2000 APR. 18

M.P.C. 40167

1999 02 19	566	0.1+	0.4+	2000 04 03	704	0.5-	0.9+	2000 04 10	704	0.5+	0.3-
1999 02 19	566	0.1-	0.1+	2000 04 03	704	0.3-	1.6+	2000 04 10	704	0.5+	0.4+
1999 02 19	566	0.3+	0.4+	2000 04 04	704	0.6-	0.1-	2000 04 10	704	1.2+	0.2-
2000 03 08	704	0.2+	1.5-	2000 04 04	704	0.5-	0.2-				

2000 EJ₇₀ = 1997 VL₄

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	215.81016		(2000.0)		P		Q
<i>n</i>	0.20999680	ω	172.46782	+0.89246764			+0.45103532
<i>a</i>	2.8032442	Ω	160.71544	-0.41518384			+0.82843410
<i>e</i>	0.0978171	<i>i</i>	1.43766	-0.17641966			+0.33206036
<i>P</i>	4.69	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 11 01	595	0.2+	0.1-	2000 03 11	704	0.7+	0.7+	2000 04 06	704	1.7-	0.0
1997 11 02	595	0.4-	0.3-	2000 03 27	684	0.9-	0.8-	2000 04 06	704	0.0	0.1-
1997 11 02	595	0.1-	0.3+	2000 03 27	684	0.4-	0.9-	2000 04 06	704	0.6+	0.0
1997 11 02	595	0.3+	0.2+	2000 03 27	684	0.4-	1.1-	2000 04 06	704	0.4+	0.1-
2000 03 10	704	0.3-	0.3+	2000 03 30	684	0.2-	0.4-	2000 04 06	704	0.5+	0.0
2000 03 10	704	0.3+	0.4+	2000 03 30	684	0.3+	0.9-	2000 04 07	699	0.5-	1.0+
2000 03 10	704	0.7+	0.4+	2000 04 05	704	0.4+	0.1+	2000 04 07	699	0.2-	1.7+
2000 03 11	704	0.7-	0.8-	2000 04 05	704	0.4+	0.0	2000 04 07	699	0.9+	0.1+
2000 03 11	704	0.0-	0.4+	2000 04 05	704	0.3+	0.3-	2000 04 07	699	0.1+	0.1+
2000 03 11	704	0.2-	0.1+	2000 04 05	704	0.1+	0.0				

2000 EK₇₀ = 1998 XL₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	304.34279		(2000.0)		P		Q
<i>n</i>	0.17148013	ω	88.93943	-0.32201178			+0.94670646
<i>a</i>	3.2086832	Ω	162.27045	-0.87803528			-0.29569828
<i>e</i>	0.1161064	<i>i</i>	1.39917	-0.35406562			-0.12770829
<i>P</i>	5.75	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 03 05	691	0.7-	0.3-	2000 03 11	704	0.0	0.0	2000 04 05	704	0.3+	0.1+
1994 03 05	691	0.0	0.2-	2000 03 27	699	0.3-	0.3+	2000 04 05	704	0.3+	0.1+
1994 03 05	691	0.3+	0.2-	2000 03 27	699	0.6-	0.1+	2000 04 05	704	0.4+	0.2+
1998 12 10	691	0.2+	0.1-	2000 03 27	699	0.5-	0.4+	2000 04 05	704	0.0	0.3+
1998 12 10	691	0.3+	0.1+	2000 03 27	699	0.8-	0.2+	2000 04 06	704	0.8+	0.4+
1998 12 10	691	0.1-	0.2+	2000 04 02	699	0.2-	0.1-	2000 04 06	704	0.1-	0.3+
1998 12 14	691	0.0	0.3-	2000 04 02	699	0.5+	0.2-	2000 04 06	704	0.0	0.2-
1998 12 14	691	0.0	0.4+	2000 04 02	699	1.9+	1.1+	2000 04 06	704	0.2+	0.1+
1998 12 14	691	0.2-	0.4+	2000 04 02	699	0.7+	0.4+	2000 04 06	704	0.0	0.2+
2000 03 10	704	0.7-	0.8-	2000 04 04	704	0.8+	0.3+	2000 04 10	704	0.5+	0.5+
2000 03 10	704	0.8-	0.2-	2000 04 04	704	0.9-	1.3+	2000 04 10	704	0.1-	0.1-
2000 03 10	704	1.4-	1.0-	2000 04 04	704	0.2+	1.7-	2000 04 10	704	0.2-	0.1-
2000 03 11	704	0.5+	0.2-	2000 04 04	704	0.4+	0.1-	2000 04 10	704	0.2-	1.2-
2000 03 11	704	0.4-	0.5-	2000 04 04	704	0.0	0.6+	2000 04 10	704	0.1+	0.8-
2000 03 11	704	0.3-	0.6+	2000 04 05	704	0.0	0.1+				

2000 EN₇₀ = 1997 TG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	306.11905		(2000.0)		P		Q
<i>n</i>	0.22944686	ω	63.81885	-0.46325062			+0.88622126
<i>a</i>	2.6424978	Ω	178.57152	-0.85280172			-0.44476883
<i>e</i>	0.0636462	<i>i</i>	7.55716	-0.24109769			-0.12958615
<i>P</i>	4.30	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 09	809	1.3+	1.2-	1997 10 21	691	1.6-	0.2+	2000 04 04	704	0.2-	0.4+
1993 10 09	809	0.7+	0.6-	2000 03 10	704	1.1+	0.2-	2000 04 04	704	0.5-	0.0
1993 10 09	809	1.5-	0.5-	2000 03 10	704	0.7-	0.2+	2000 04 04	704	0.2-	0.4+
1993 10 11	809	0.5-	0.4+	2000 03 10	704	0.4+	0.5-	2000 04 04	704	0.4+	0.1+
1993 10 11	809	0.4+	0.6+	2000 03 10	704	0.3+	0.4-	2000 04 06	699	0.7+	0.5-

1993 10 11	809	0.1-	0.1+	2000 03 11	704	0.2-	0.2-	2000 04 06	699	0.1+	0.4-
1997 10 03	691	0.5+	0.5-	2000 03 11	704	0.1+	0.0	2000 04 06	699	0.1+	0.1-
1997 10 03	691	0.2+	0.1-	2000 03 11	704	0.4+	0.2-	2000 04 06	699	0.1+	0.2+
1997 10 03	691	0.8+	0.4-	2000 03 11	704	0.3-	0.6+	2000 04 10	704	0.7+	0.9-
1997 10 09	691	0.1+	0.2+	2000 03 27	699	0.8-	0.4-	2000 04 10	704	1.0+	0.2-
1997 10 09	691	0.2-	0.3+	2000 03 27	699	1.1-	0.1-	2000 04 10	704	1.0+	0.5-
1997 10 09	691	0.2+	0.1-	2000 03 27	699	0.6-	0.6+	2000 04 10	704	0.3-	0.1+
1997 10 21	691	0.1+	0.0	2000 03 27	699	0.8-	0.6-				
1997 10 21	691	(3.4+	6.4-)	2000 04 04	704	0.9-	0.9+				

2000 EO₇₄ = 1977 RU₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	349.66886		(2000.0)		P		Q
<i>n</i>	0.20042527	ω	26.62493	-0.90503722			+0.42524458
<i>a</i>	2.8917965	Ω	178.46045	-0.42447901			-0.90174864
<i>e</i>	0.1262830	<i>i</i>	18.76191	-0.02692951			-0.07756573
<i>P</i>	4.92	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1977 09 09	675	0.7+	1.2+	2000 03 10	691	0.2-	0.7-	2000 04 08	704	0.1+	0.1-
1977 09 10	675	0.7-	1.3-	2000 03 12	691	0.2-	0.7-	2000 04 08	704	0.1-	1.0-
2000 03 08	704	0.4-	0.6-	2000 03 12	691	0.2-	0.8-	2000 04 08	704	0.1+	1.0+
2000 03 08	704	0.3+	0.1+	2000 03 12	691	0.2-	0.7-	2000 04 08	704	0.6+	0.0
2000 03 08	704	0.7+	0.4+	2000 04 04	704	0.4+	0.8-	2000 04 08	704	0.2-	0.8+
2000 03 08	704	0.9+	1.3+	2000 04 04	704	0.3+	0.2+	2000 04 13	608	0.2+	0.2+
2000 03 08	704	1.2+	0.4+	2000 04 04	704	0.1-	0.2-	2000 04 13	608	0.3-	0.1-
2000 03 10	691	1.2-	1.3+	2000 04 04	704	0.5-	0.1+	2000 04 13	608	0.2-	0.0
2000 03 10	691	0.5-	0.5-	2000 04 04	704	0.2-	0.3+				

2000 EV₇₄ = 1998 SG₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	74.00187		(2000.0)		P		Q
<i>n</i>	0.22612159	ω	249.62825	+0.29045935			-0.95685824
<i>a</i>	2.6683412	Ω	183.51189	+0.91707390			+0.28059143
<i>e</i>	0.2663488	<i>i</i>	6.99615	+0.27314615			+0.07543708
<i>P</i>	4.36	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 26	704	1.5-	0.8+	2000 03 11	691	0.2+	0.0	2000 04 05	704	0.3+	0.2+
1998 09 26	704	(3.3-	1.0-)	2000 03 11	704	0.8-	0.3+	2000 04 05	704	0.7+	0.7-
1998 09 26	704	0.4-	0.5-	2000 03 11	704	0.7+	0.4+	2000 04 05	704	0.9+	0.1-
1998 09 27	704	0.4+	0.2-	2000 03 11	691	0.1+	0.1+	2000 04 05	704	0.1-	0.1-
1998 09 27	704	0.4+	0.9+	2000 03 11	704	0.4+	0.2-	2000 04 06	704	0.2-	0.2-
1998 09 27	704	0.3-	1.1+	2000 03 11	691	0.0	0.2-	2000 04 06	704	0.0	0.8+
1998 09 27	704	1.2+	0.4+	2000 03 12	691	0.0	0.1-	2000 04 06	704	0.7+	0.5-
1998 09 27	704	0.5-	0.2-	2000 03 12	691	0.1-	0.3+	2000 04 06	704	1.8-	1.9+
2000 03 11	704	0.4-	0.4+	2000 03 12	691	0.2+	0.3+				

2000 EZ₇₄ = 1996 BJ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	99.82760		(2000.0)		P		Q
<i>n</i>	0.27177388	ω	251.24576	+0.35924847			-0.93322864
<i>a</i>	2.3604650	Ω	177.68226	+0.89593854			+0.34338858
<i>e</i>	0.0896965	<i>i</i>	7.08063	+0.26121767			+0.10568157
<i>P</i>	3.63	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 01 21	691	0.5+	0.2-	2000 03 11	691	0.2+	0.3+	2000 04 05	704	0.8-	0.7-
1996 01 21	691	0.2+	0.2-	2000 03 11	691	0.4+	0.5-	2000 04 05	704	0.9-	1.2+
1996 01 21	691	0.2+	0.0	2000 03 12	691	0.3-	0.1-	2000 04 06	704	0.7+	1.2-
1996 01 27	691	0.7-	1.2+	2000 03 12	691	0.1-	0.3-	2000 04 06	704	0.4+	0.3+
1996 01 27	691	0.1-	0.4-	2000 03 12	691	0.3-	0.2-	2000 04 06	704	0.6+	0.5+
1996 01 27	691	0.0	0.2-	2000 04 05	704	0.2+	0.0				
2000 03 11	691	0.5+	0.1-	2000 04 05	704	0.7-	0.6+				

2000 EA₇₅ = 1997 MQ₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	120.62000	(2000.0)	P		Q	
<i>n</i>	0.23187191	ω	263.23738	+0.55005154	-0.83495839	
<i>a</i>	2.6240410	Ω	153.37018	+0.78039151	+0.50665866	
<i>e</i>	0.0387534	<i>i</i>	2.16906	+0.29737584	+0.21480570	
<i>P</i>	4.25	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 06 30	691	0.8-	0.3-	2000 03 11	704	(2.4-	0.2-)	2000 04 05	704	(0.8+	2.3-)
1997 06 30	691	0.4-	0.2-	2000 03 11	704	1.2-	1.0-	2000 04 05	704	1.8+	0.5-
1997 06 30	691	0.7-	0.2-	2000 03 12	691	0.3-	0.5-	2000 04 05	704	0.3-	0.5-
1997 07 06	691	0.4+	0.1+	2000 03 12	691	0.4-	0.8-	2000 04 05	704	0.9+	1.3-
1997 07 06	691	0.4+	0.1+	2000 03 12	691	0.4-	0.8-	2000 04 07	699	1.1-	0.1+
1997 07 06	691	0.4+	0.2-	2000 03 27	699	0.1-	0.1+	2000 04 07	699	1.3-	0.3+
1997 07 10	691	0.3+	0.0	2000 03 27	699	0.1-	0.3+	2000 04 07	699	0.1-	0.0
1997 07 10	691	0.2+	0.2+	2000 03 27	699	0.2-	0.5+	2000 04 07	699	0.1-	0.4-
1997 07 10	691	0.3+	0.1-	2000 03 27	699	0.5-	1.8+	2000 04 10	704	0.7+	1.0+
2000 03 11	691	0.3+	0.3-	2000 04 04	704	0.2-	0.8-	2000 04 10	704	0.2-	1.1+
2000 03 11	691	0.2+	0.5-	2000 04 04	704	1.1+	0.2-	2000 04 10	704	1.2+	0.9+
2000 03 11	704	0.6-	0.6+	2000 04 04	704	0.3+	1.0+	2000 04 10	704	0.1-	0.0
2000 03 11	704	0.6-	0.7-	2000 04 04	704	0.9+	0.2+				
2000 03 11	691	0.4+	0.5-	2000 04 04	704	0.1-	0.5+				

2000 EZ₇₅ = 1992 GR₅ = 1998 XY₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	244.43038	(2000.0)	P		Q	
<i>n</i>	0.24105958	ω	289.01226	+0.22826987	+0.97337980	
<i>a</i>	2.5569356	Ω	354.06755	-0.80137629	+0.17582919	
<i>e</i>	0.1472087	<i>i</i>	11.50041	-0.55289140	+0.14702333	
<i>P</i>	4.09	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1992 04 03	033	0.2-	0.4-	1998 12 17	704	0.6+	1.0+	2000 02 11	704	0.1-	0.0
1992 04 03	033	0.4-	0.4+	1998 12 17	704	0.2-	0.4-	2000 02 11	704	0.1-	0.1+
1996 04 20	566	0.6-	1.0-	1998 12 17	704	1.4+	0.6+	2000 02 25	703	0.6-	0.6-
1996 04 20	566	0.4-	1.6-	1998 12 23	704	0.6+	0.5-	2000 02 25	703	0.2-	0.1+
1996 04 20	566	0.6+	0.3+	1998 12 23	704	0.2+	1.6+	2000 02 25	703	0.0	0.1-
1997 09 02	566	0.6-	1.1+	1998 12 23	704	0.2-	0.8-	2000 02 25	703	0.4+	0.3-
1997 09 02	566	0.5-	1.4+	1998 12 23	704	(2.8-	1.3+)	2000 03 05	704	0.0	0.3+
1997 09 02	566	(1.1-	2.5+)	1998 12 23	704	(5.4-	5.6+)	2000 03 05	704	0.4+	0.1+
1998 11 14	704	0.3+	0.5+	2000 02 03	704	0.2-	0.1+	2000 03 05	704	0.3+	0.2+
1998 11 14	704	0.8-	1.1-	2000 02 03	704	0.1-	0.0	2000 03 05	704	0.3+	0.4+
1998 11 14	704	(3.6-	1.8-)	2000 02 03	704	0.0	0.3+	2000 03 05	704	0.6-	0.1+
1998 11 14	704	(0.5+	2.4-)	2000 02 03	704	0.2+	1.1+	2000 03 11	699	0.1-	0.0
1998 11 16	704	1.1-	1.6-	2000 02 03	704	0.3-	0.4+	2000 03 11	699	0.0	0.2-
1998 11 16	704	0.8-	0.7-	2000 02 06	703	0.6-	0.9+	2000 03 11	699	0.3-	0.0
1998 11 16	704	0.8-	0.2-	2000 02 06	703	(0.8-	3.1+)	2000 03 11	699	0.1-	0.1-
1998 11 16	704	1.8+	0.3-	2000 02 06	703	1.7+	1.4+	2000 03 12	704	0.2+	0.0
1998 12 14	704	0.2+	1.7+	2000 02 06	703	1.1+	0.4+	2000 03 12	704	0.7+	0.6+
1998 12 14	704	0.8-	0.2-	2000 02 11	704	0.5-	0.1+	2000 03 12	704	0.2-	0.3+
1998 12 14	704	0.2+	1.0-	2000 02 11	704	1.0+	0.4-	2000 03 12	704	0.0	0.4+
1998 12 14	704	0.0	0.4+	2000 02 11	704	0.2+	0.3+	2000 04 06	608	0.3-	0.1-
1998 12 14	704	0.2-	0.4-	2000 02 11	704	0.5+	0.3+	2000 04 06	608	0.4-	0.5-
1998 12 17	704	0.3+	1.4+	2000 02 11	704	0.1+	0.4+	2000 04 06	608	0.7-	1.4-
1998 12 17	704	0.3-	0.4-	2000 02 11	704	0.7+	0.6+				

2000 EA₇₆ = 1982 UP₃ = 1995 DH₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.39858	(2000.0)	P		Q	
<i>n</i>	0.19061787	ω	41.97412	+0.77773653	-0.62851201	
<i>a</i>	2.9901546	Ω	356.91573	+0.51641378	+0.64786835	
<i>e</i>	0.1115339	<i>i</i>	10.63244	+0.35838904	+0.43039430	
<i>P</i>	5.17	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1982 10 19	033	0.9-	0.0	1999 01 14	699	1.5+	1.8-	2000 03 05	704	0.0	0.3+
1982 10 19	033	0.4-	0.5+	1999 01 14	699	0.1+	1.6-	2000 03 05	704	0.2+	0.3-
1995 02 25	098	(3.3-	1.5+)	2000 02 03	704	0.3-	1.2+	2000 03 05	704	0.3-	0.5+
1995 02 25	098	0.6+	0.3-	2000 02 03	704	0.8+	0.4+	2000 03 05	704	0.2+	0.7+
1995 02 26	098	(3.3-	0.1-)	2000 02 03	704	0.0	0.2-	2000 03 11	699	0.2-	0.3+
1995 02 26	098	1.8+	1.9-	2000 02 03	704	0.7+	1.1+	2000 03 11	699	0.1-	0.6-
1995 02 27	098	(4.0-	0.0)	2000 02 03	704	0.3-	0.3+	2000 03 11	699	0.1-	0.3-
1995 02 27	098	(1.2-	3.4-)	2000 02 06	703	1.1-	1.4+	2000 03 11	699	0.5-	0.4-
1998 10 26	098	0.7+	1.8+	2000 02 06	703	0.6-	0.3-	2000 03 12	704	0.3-	0.4-
1998 10 26	098	0.6-	0.7+	2000 02 06	703	0.1-	0.8+	2000 03 12	704	0.9+	0.0
1998 11 14	704	0.1+	0.1+	2000 02 06	703	0.3-	0.1-	2000 03 12	704	0.1+	0.1+
1998 11 14	704	0.0	0.6-	2000 02 11	704	0.1-	0.2-	2000 03 12	704	0.2+	0.3+
1998 11 14	704	0.0	0.3-	2000 02 11	704	0.3+	0.3-	2000 03 12	704	0.4+	0.0
1998 11 14	704	0.1-	0.6-	2000 02 11	704	0.2+	0.7+	2000 04 03	699	0.3+	0.6-
1998 11 14	704	0.5-	0.4-	2000 02 11	704	0.6+	0.1-	2000 04 03	699	0.4-	0.4-
1998 11 16	704	(2.2+	0.5+)	2000 02 11	704	1.0-	0.5+	2000 04 03	699	0.2+	0.6-
1998 11 16	704	0.1+	0.4-	2000 02 25	703	0.1+	0.3-	2000 04 03	699	0.2+	0.6-
1998 11 16	704	0.4-	0.3-	2000 02 25	703	0.2-	0.3+	2000 04 04	688	0.3-	0.4-
1998 11 16	704	1.3+	1.4+	2000 02 25	703	0.0	0.1-	2000 04 04	688	0.1+	0.1+
1998 11 16	704	(0.0	3.0+)	2000 02 25	703	0.8-	0.7+				
1999 01 14	699	0.3-	1.2+	2000 03 05	704	0.5-	0.2+				

2000 EE₇₆ = 1998 YA₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	152.96590	(2000.0)	P		Q	
<i>n</i>	0.31287174	ω	258.30202	+0.99239589	+0.03192619	
<i>a</i>	2.1489443	Ω	99.78479	+0.01524159	+0.92646855	
<i>e</i>	0.1526719	<i>i</i>	6.92841	-0.12213963	+0.37501566	
<i>P</i>	3.15	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 23	327	0.3+	0.6-	2000 03 05	704	0.1+	0.5-	2000 03 12	704	1.0+	0.1+
1998 12 23	327	0.3-	0.4-	2000 03 05	704	0.3-	0.5+	2000 03 12	704	0.5+	1.3+
1998 12 23	327	0.1+	0.4+	2000 03 05	704	0.3-	0.0	2000 03 12	704	0.2-	0.3-
1998 12 24	327	0.7-	1.1+	2000 03 05	704	0.6-	0.0	2000 03 12	704	0.4+	0.4+
1998 12 24	327	0.5+	0.2-	2000 03 05	704	0.1-	0.2-	2000 03 12	704	0.9+	1.1-
2000 02 04	704	1.5-	0.4-	2000 03 11	699	1.8-	0.5+	2000 04 03	699	0.4+	0.4-
2000 02 04	704	0.9+	1.2+	2000 03 11	699	0.1-	1.2-	2000 04 03	699	0.1+	0.1+
2000 02 04	704	0.3+	1.2-	2000 03 11	699	0.2+	0.8-	2000 04 03	699	0.1-	1.6+
2000 02 04	704	0.4+	0.7+	2000 03 11	699	0.2-	0.7-	2000 04 03	699	0.0	0.5+

2000 EJ₇₆ = 1995 VQ₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	3.80226	(2000.0)	P		Q	
<i>n</i>	0.28998924	ω	105.31193	-0.88695081	-0.45494957	
<i>a</i>	2.2605535	Ω	47.69938	+0.37160620	-0.80530958	
<i>e</i>	0.0824845	<i>i</i>	6.17973	+0.27427559	-0.38012809	
<i>P</i>	3.40	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1995 11 15	691	0.2+	0.0	1998 09 26	704	0.9+	0.4+	2000 03 08	608	0.6+	1.0-
1995 11 15	691	0.0	0.0	1998 09 26	704	(5.8-	0.4-)	2000 03 12	704	1.1+	0.4-
1995 11 15	691	0.0	0.1+	2000 03 05	704	0.9-	0.5-	2000 03 12	704	0.2-	0.0
1995 11 21	691	0.0	0.2-	2000 03 05	704	0.7-	1.1+	2000 03 12	704	0.6-	0.5+
1995 11 21	691	0.3-	0.2+	2000 03 05	704	1.0+	0.7+	2000 03 12	704	0.5-	0.4+
1995 11 21	691	0.2+	0.1-	2000 03 05	704	0.4-	0.9+	2000 03 12	704	0.1-	0.2-
1998 09 26	704	0.3-	0.7+	2000 03 08	608	0.7+	0.6-				
1998 09 26	704	0.6-	1.1-	2000 03 08	608	0.0	1.1-				

2000 APR. 18

M.P.C. 40169

2000 EA₇₈ = 1997 JJ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27063206	ω	319.92806	+0.66784843	−0.74207122		
<i>a</i>	2.3670997	Ω	88.08856	+0.69677062	+0.59615952		
<i>e</i>	0.2016629	<i>i</i>	3.29943	+0.26170437	+0.30647045		
<i>P</i>	3.64	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 04 30	704	0.2−	0.4−	1997 05 03	910	0.1+	0.3+	2000 03 11	699	0.2+	0.3+
1997 04 30	704	0.4+	0.1−	2000 03 05	704	0.6+	0.2−	2000 03 12	704	0.4−	0.5+
1997 04 30	704	0.4−	0.3+	2000 03 05	704	0.9−	0.2−	2000 03 12	704	0.2+	0.2−
1997 04 30	704	(3.5−	1.4−)	2000 03 05	704	0.5+	0.7−	2000 03 12	704	0.7+	0.7+
1997 05 01	910	0.6+	0.3−	2000 03 05	704	0.8+	0.3−	2000 03 12	704	0.3−	0.3+
1997 05 01	910	0.2−	0.1−	2000 03 05	704	0.4+	0.2+	2000 03 12	704	0.0	0.3−
1997 05 01	910	0.2−	0.1+	2000 03 11	699	0.6+	0.2−	2000 04 05	688	0.2−	0.1−
1997 05 02	910	0.4+	0.1+	2000 03 11	699	1.0−	0.1+	2000 04 05	688	0.1+	0.2−
1997 05 02	910	0.4−	0.1+	2000 03 11	699	1.2−	0.3+				

2000 EM₇₈ = 1993 FM₈₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27347961	ω	24.54398	+0.23779484	−0.97033955		
<i>a</i>	2.3506398	Ω	51.72918	+0.88175266	+0.19685543		
<i>e</i>	0.1927125	<i>i</i>	3.17835	+0.40738907	+0.14031782		
<i>P</i>	3.60	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 17	809	1.3+	1.4−	2000 03 05	704	0.3+	0.1−	2000 03 11	699	0.2+	1.1+
1993 03 23	809	1.3+	1.7+	2000 03 05	704	0.3+	0.2−	2000 03 11	699	0.4−	0.6−
1993 03 23	691	0.6−	0.1−	2000 03 05	704	0.6−	0.2−	2000 03 11	699	0.1+	0.6+
1993 03 23	691	0.5−	0.4−	2000 03 05	704	0.3−	0.7+	2000 03 12	704	0.0	0.1+
1993 03 23	691	1.7−	0.2−	2000 03 05	704	0.3−	0.3−	2000 03 12	704	0.7−	0.4+
2000 02 04	704	0.3+	0.2−	2000 03 08	608	0.4+	1.0−	2000 03 12	704	0.3+	0.3+
2000 02 04	704	0.7−	0.4+	2000 03 08	608	0.2+	0.5−	2000 03 12	704	0.3+	0.5+
2000 02 04	704	0.4−	0.2+	2000 03 08	608	0.0	1.3−	2000 03 12	704	0.2+	0.5+
2000 02 04	704	0.4+	0.7−	2000 03 11	699	0.3+	0.6+				

2000 EC₇₉ = 1992 EK₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.24647890	ω	286.19062	+0.64040343	−0.76242714		
<i>a</i>	2.5193174	Ω	123.61590	+0.74031699	+0.58065302		
<i>e</i>	0.0315345	<i>i</i>	6.38929	+0.20448521	+0.28556422		
<i>P</i>	4.00	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1992 03 02	809	0.2+	0.2+	2000 03 05	704	0.3+	1.0−	2000 03 11	699	0.2−	1.3+
1992 03 07	809	0.2−	0.1−	2000 03 05	704	0.0	0.4+	2000 03 12	704	0.5+	0.7−
2000 02 25	703	0.9+	1.0−	2000 03 05	704	0.0	0.1−	2000 03 12	704	0.2+	0.5−
2000 02 25	703	0.6−	1.0+	2000 03 05	704	0.4+	0.1−	2000 03 12	704	0.4+	0.4−
2000 02 25	703	0.3+	0.5+	2000 03 11	699	0.7−	1.0+	2000 03 12	704	0.9+	0.3−
2000 02 25	703	0.5−	0.4−	2000 03 11	699	0.6−	0.5+	2000 03 12	704	0.5+	0.4−
2000 03 05	704	0.1−	0.1−	2000 03 11	699	1.5−	0.4+				

2000 EW₇₉ = 1995 FC₁₀ = 1998 XL₅₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18441777	ω	111.72246	−0.75993769	+0.64675864		
<i>a</i>	3.0568037	Ω	108.63689	−0.61877250	−0.68930680		
<i>e</i>	0.0546515	<i>i</i>	3.92079	−0.19903593	−0.32643438		
<i>P</i>	5.34	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 26	691	0.0	0.4−	2000 02 04	704	0.1−	0.7+	2000 03 05	704	0.1−	0.6−
1995 03 26	691	0.1+	0.6−	2000 02 04	704	0.5+	0.4+	2000 03 11	699	0.1+	0.1+
1995 03 26	691	0.2−	0.5−	2000 02 04	704	0.8+	0.8+	2000 03 11	699	0.2−	0.5+
1995 04 07	691	0.1−	1.3+	2000 02 04	704	0.2+	0.1−	2000 03 11	699	0.3+	0.3+
1995 04 07	691	0.0	0.1−	2000 02 11	704	(0.8−	2.2−)	2000 03 11	699	0.3+	0.5+
1995 04 07	691	0.1−	0.2−	2000 02 11	704	0.6−	0.1+	2000 03 12	704	0.0	0.1−
1998 12 15	704	1.5+	1.6+	2000 02 11	704	0.1−	0.1−	2000 03 12	704	0.3+	0.3+
1998 12 15	704	0.4−	1.7+	2000 03 02	703	0.5+	0.9−	2000 03 12	704	0.6−	0.6−
1998 12 15	704	0.1−	0.7−	2000 03 02	703	0.9−	1.0−	2000 03 12	704	0.0	1.0−
1998 12 16	704	0.5−	0.9−	2000 03 02	703	0.3−	0.3−	2000 03 12	704	0.3−	0.6−
1998 12 16	704	1.1−	1.3−	2000 03 02	703	0.8−	0.3+	2000 04 03	704	0.4−	0.5+
1998 12 16	704	0.3−	1.0−	2000 03 05	704	0.5+	0.2−	2000 04 03	704	0.1−	0.8+
1998 12 16	704	1.4+	0.3+	2000 03 05	704	0.4+	0.5−	2000 04 03	704	0.2+	1.0+
1998 12 16	704	0.4−	0.3+	2000 03 05	704	0.0	0.4−	2000 04 03	704	0.2−	0.6+
2000 02 04	704	0.5+	0.1+	2000 03 05	704	0.3+	0.6−	2000 04 03	704	0.1−	1.2+

2000 EA₈₀ = 1992 SG₇ = 1998 XX₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18895489	ω	33.69784	+0.84393851	−0.53642547		
<i>a</i>	3.0076731	Ω	358.72300	+0.44489450	+0.70399971		
<i>e</i>	0.1101683	<i>i</i>	10.17660	+0.29972766	+0.46543757		
<i>P</i>	5.22	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 09 26	691	0.6−	0.2+	2000 02 04	704	0.8−	1.7−	2000 03 12	704	0.4−	0.2−
1992 09 26	691	0.6−	0.1+	2000 02 04	704	0.3+	1.2+	2000 03 12	704	0.0	0.7−
1992 09 26	691	0.6−	0.5+	2000 02 04	704	0.9+	1.9+	2000 03 12	704	0.6−	0.2+
1992 09 27	691	0.9−	0.8+	2000 02 04	704	0.5+	0.6+	2000 03 12	704	0.4−	0.2−
1992 09 27	691	0.6+	0.8+	2000 03 02	703	(2.8−	0.6+)	2000 03 12	704	0.2−	0.3−
1992 09 27	691	0.7+	0.2−	2000 03 02	703	1.3−	0.6+	2000 03 28	704	1.3−	0.4+
1998 12 14	704	0.0	0.0	2000 03 02	703	1.2−	0.6−	2000 03 28	704	0.9+	0.2+
1998 12 14	704	0.8+	0.8−	2000 03 02	703	0.6+	0.4−	2000 03 28	704	0.0	0.0
1998 12 14	704	0.4−	1.3−	2000 03 05	704	0.2−	0.3−	2000 04 03	699	0.5−	0.4+
1998 12 14	704	0.3+	0.0	2000 03 05	704	0.8+	0.1+	2000 04 03	699	0.8+	0.0
1998 12 14	704	0.0	0.6+	2000 03 05	704	0.4+	0.0	2000 04 03	699	0.6−	0.4+
1998 12 17	704	0.2−	1.3+	2000 03 05	704	0.3+	0.4+	2000 04 03	704	0.0	0.7+
1998 12 17	704	0.1−	1.0+	2000 03 11	699	0.8+	0.4+	2000 04 03	699	(0.0	2.2+)
1998 12 17	704	0.2+	1.5−	2000 03 11	699	0.3+	0.1+	2000 04 03	704	0.6+	0.6+
1998 12 17	704	0.6−	0.5+	2000 03 11	699	0.9+	0.4+	2000 04 03	704	0.6+	0.1+
2000 02 04	704	0.1−	1.2−	2000 03 11	699	0.3+	0.1+	2000 04 03	704	0.4+	0.7−

2000 EA₈₂ = 1998 SV₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28141582	ω	110.94526	−0.97222754	−0.22668053		
<i>a</i>	2.3062358	Ω	55.99607	+0.18003118	−0.88331605		
<i>e</i>	0.1206065	<i>i</i>	4.02715	+0.14954060	−0.41032753		
<i>P</i>	3.50	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 09 06	250	0.6+	0.6−	2000 02 11	704	0.9+	0.6+	2000 03 12	704	0.2+	0.2+
1995 09 06	250	0.3+	0.6−	2000 02 11	704	0.2+	0.0	2000 03 12	704	0.0	0.2+
1995 09 06	250	0.3+	0.5−	2000 02 11	704	0.2+	0.4+	2000 03 12	704	0.3−	0.8+
1995 09 06	250	0.1−	0.5−	2000 02 11	704	0.0	0.1+	2000 03 12	704	0.1−	0.5+
1995 09 06	250	0.1−	0.5−	2000 02 26	703	1.4+	0.7−	2000 03 12	704	0.1+	0.1+
1995 09 06	250	0.4−	0.6−	2000 02 26	703	0.9−	0.1−	2000 04 03	704	0.6−	0.3+
1998 09 17	691	0.3−	0.4+	2000 02 26	703	0.4+	0.6−	2000 04 03	704	0.1−	0.6+
1998 09 17	691	0.3−	0.5+	2000 02 26	703	0.4−	0.4+	2000 04 03	704	0.7+	1.3−
1998 09 17	691	0.0	0.4+	2000 03 05	704	0.2+	0.1+	2000 04 03	704	0.5−	0.3−
1998 09 24	691	0.5−	0.5+	2000 03 05	704	0.1+	0.2−	2000 04 03	704	0.6−	0.9−
1998 09 24	691	0.0	0.1+	2000 03 05	704	0.1+	0.4+	2000 04 10	704	0.8−	0.0
1998 09 24	691	0.3−	0.8+	2000 03 05	704	0.4+	0.3+	2000 04 10	704	0.3−	0.1−
2000 02 11	704	0.3+	0.4−	2000 03 05	704	0.6+	0.9+	2000 04 10	704	0.6−	0.4−

2000 EW₈₂ = 1998 XZ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	26.36993		(2000.0)	P		Q	
<i>n</i>	0.17754813	ω	73.44759	-0.65522268	-0.74593826		
<i>a</i>	3.1351524	Ω	58.10540	+0.62834415	-0.62588869		
<i>e</i>	0.1196688	<i>i</i>	8.08530	+0.41936483	-0.22768283		
<i>P</i>	5.55	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	1.3-	0.1-	2000 02 04	704	0.6-	0.1-	2000 03 12	704	0.5+	0.7-
1998 12 14	704	0.5+	0.1+	2000 02 04	704	0.2-	0.1+	2000 03 12	704	0.1-	0.0
1998 12 14	704	1.3+	0.2+	2000 02 04	704	0.0	0.3+	2000 03 12	704	0.1+	0.6-
1998 12 14	704	0.7-	1.8-	2000 03 05	704	0.2+	0.4+	2000 03 12	704	0.2-	0.6-
1998 12 14	704	0.6-	0.7+	2000 03 05	704	0.1-	0.1+	2000 03 12	704	0.3+	1.0-
1998 12 17	704	0.0	0.4-	2000 03 05	704	0.0	0.2+	2000 04 04	704	0.5-	0.1+
1998 12 17	704	0.1+	0.0	2000 03 05	704	0.2+	0.2+	2000 04 04	704	0.2+	0.3+
1998 12 17	704	0.4+	0.3+	2000 03 05	704	0.0	0.9+	2000 04 04	704	0.7-	0.3+
1998 12 17	704	0.3+	0.8+	2000 03 06	608	0.0	0.8-	2000 04 04	704	0.0	0.1-
2000 02 04	704	0.4+	0.3+	2000 03 06	608	0.2+	0.5+				
2000 02 04	704	0.2+	0.5+	2000 03 06	608	0.0	0.4-				

2000 EG₈₃ = 1993 HU₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	256.75749		(2000.0)	P		Q	
<i>n</i>	0.27413725	ω	232.00557	+0.22687670	+0.97011453		
<i>a</i>	2.3468789	Ω	51.32831	-0.85544607	+0.24073308		
<i>e</i>	0.1281932	<i>i</i>	6.32784	-0.46555233	+0.03042025		
<i>P</i>	3.60	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 04 20	691	0.0	0.0	2000 03 05	704	0.3-	0.6-	2000 04 03	704	0.4+	0.9+
1993 04 20	691	0.3+	0.2+	2000 03 12	704	0.1+	0.1+	2000 04 03	704	0.6+	0.8-
1993 04 20	691	0.1+	0.0	2000 03 12	704	0.4-	0.2-	2000 04 03	704	1.0-	1.1-
1993 04 24	691	0.1-	0.1+	2000 03 12	704	0.5+	0.0	2000 04 08	704	0.2+	0.2-
1993 04 24	691	0.3-	0.1-	2000 03 12	704	0.3+	0.3-	2000 04 08	704	0.3+	0.5-
1993 04 24	691	0.0	0.2-	2000 03 12	704	0.3-	0.6+	2000 04 08	704	0.1-	0.7+
2000 03 05	704	0.0	0.5+	2000 03 28	704	0.1-	0.3+	2000 04 08	704	0.4+	0.1+
2000 03 05	704	0.4+	0.2-	2000 03 28	704	0.1-	0.1-	2000 04 08	704	0.2-	0.4+
2000 03 05	704	0.2-	0.3-	2000 03 28	704	0.3-	0.7+				

2000 EL₈₄ = 1998 XG₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	135.28040		(2000.0)	P		Q	
<i>n</i>	0.19222454	ω	235.77885	+0.90056355	-0.42325221		
<i>a</i>	2.9734696	Ω	148.91947	+0.43445992	+0.86830551		
<i>e</i>	0.1221199	<i>i</i>	11.08000	+0.01516133	+0.25865637		
<i>P</i>	5.13	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 15	704	1.2-	1.1+	2000 02 16	703	0.0	0.1+	2000 03 12	704	0.1-	0.1-
1998 12 15	704	0.9+	0.0	2000 02 16	703	0.3-	0.8+	2000 03 12	704	0.4+	0.3+
1998 12 15	704	0.4-	0.4-	2000 02 16	703	0.4+	0.0	2000 03 12	704	0.1+	0.5-
1998 12 15	704	(0.2-	2.1+)	2000 02 16	703	0.1-	0.3-	2000 03 12	704	0.1+	0.0
1998 12 15	704	0.2-	1.5+	2000 02 26	703	0.1-	0.1-	2000 04 03	704	0.2-	0.3-
1998 12 22	704	1.1+	0.4-	2000 02 26	703	0.2-	0.1-	2000 04 03	704	0.2-	0.3-
1998 12 22	704	1.2+	1.7-	2000 02 26	703	0.8+	0.9-	2000 04 03	704	0.4-	0.0
1998 12 22	704	(1.4-	2.5-)	2000 02 26	703	0.1-	0.3+	2000 04 03	704	0.5-	0.0
1998 12 22	704	1.4-	0.2-	2000 03 06	704	0.6-	0.6+	2000 04 03	704	0.8-	0.0
2000 01 08	704	0.9-	0.0	2000 03 06	704	0.1-	0.2-	2000 04 08	704	0.1+	0.3+
2000 01 08	704	0.9-	0.4+	2000 03 06	704	0.5-	0.3-	2000 04 08	704	0.2-	0.4-
2000 01 08	704	0.6+	0.0	2000 03 11	699	0.1+	0.0	2000 04 08	704	0.2+	0.3-
2000 02 11	704	0.1+	0.0	2000 03 11	699	0.3-	0.4+	2000 04 08	704	0.2+	0.1+
2000 02 11	704	0.4+	0.1+	2000 03 11	699	0.1+	0.3+	2000 04 08	704	0.9+	0.3+
2000 02 11	704	0.6+	0.1+	2000 03 11	699	0.4-	0.3-				
2000 02 11	704	1.7+	0.6+	2000 03 12	704	0.2+	0.7-				

2000 EM₈₄ = 1998 XJ₅₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	229.11870		(2000.0)	P		Q	
<i>n</i>	0.23904147	ω	180.14982	+0.64649591	+0.75963293		
<i>a</i>	2.5713067	Ω	130.12875	-0.69986684	+0.62741146		
<i>e</i>	0.1354123	<i>i</i>	5.30679	-0.30369301	+0.17120944		
<i>P</i>	4.12	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.0	1.0+	2000 02 02	703	0.2+	1.4+	2000 03 12	704	0.6+	0.1-
1998 12 15	704	0.2-	0.4+	2000 02 11	704	0.4+	0.4-	2000 03 12	704	0.1+	0.0
1998 12 15	704	0.3+	0.2-	2000 02 11	704	0.5-	0.4+	2000 03 12	704	1.1-	0.1-
1998 12 15	704	0.0	0.7-	2000 02 11	704	0.4-	0.2-	2000 04 03	704	0.3-	0.3-
1998 12 15	704	0.9-	1.2-	2000 02 11	704	0.5+	0.9+	2000 04 03	704	0.2-	0.5-
1998 12 16	704	0.4-	0.8+	2000 03 02	703	0.0	0.0	2000 04 03	704	0.3-	0.2+
1998 12 16	704	1.8+	0.4+	2000 03 02	703	0.4-	1.1-	2000 04 03	704	0.1+	1.0+
1998 12 16	704	0.7-	0.5+	2000 03 02	703	1.3-	0.8+	2000 04 03	704	0.3+	1.2+
1998 12 16	704	0.4-	0.6-	2000 03 02	703	0.2-	0.4+	2000 04 08	704	0.4+	0.8-
1998 12 22	704	0.2+	0.5+	2000 03 06	704	0.3+	0.9-	2000 04 08	704	0.0	0.3+
1998 12 22	704	0.3-	0.2+	2000 03 06	704	0.9-	0.6+	2000 04 08	704	0.0	0.6-
1998 12 22	704	0.1+	0.4+	2000 03 06	704	(2.3-	1.7+)	2000 04 08	704	0.9+	0.2-
1998 12 22	704	0.4-	0.1+	2000 03 08	608	0.2+	1.3-	2000 04 08	704	0.5+	0.2-
1998 12 22	704	0.8+	1.4-	2000 03 08	608	0.4+	1.1-	2000 04 10	704	0.4+	1.2+
2000 02 02	703	0.9+	1.2-	2000 03 08	608	0.2+	1.0-	2000 04 10	704	0.2-	0.4+
2000 02 02	703	0.2-	1.0-	2000 03 12	704	0.5-	0.7+	2000 04 10	704	0.3-	0.9+
2000 02 02	703	0.3+	0.8+	2000 03 12	704	0.3+	0.1+				

2000 EQ₈₄ = 1975 TE₄ = 1992 UY₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	62.93163		(2000.0)	P		Q	
<i>n</i>	0.17487833	ω	250.65665	+0.12100256	-0.99183913		
<i>a</i>	3.1669804	Ω	192.59654	+0.96580401	+0.12698113		
<i>e</i>	0.0706566	<i>i</i>	10.61382	+0.22930547	-0.01144244		
<i>P</i>	5.64	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1975 10 13	095	0.3+	1.0-	2000 02 08	704	0.0	0.6+	2000 03 13	704	0.0	0.5-
1992 10 31	033	0.4-	0.1+	2000 02 08	704	0.2+	0.2+	2000 03 13	704	0.1-	0.0
1992 10 31	033	0.0	0.1-	2000 02 13	704	(2.0+	0.9+)	2000 03 13	704	0.0	1.0+
1992 11 01	033	0.2-	0.5+	2000 02 13	704	(1.7+	2.5+)	2000 03 27	699	0.5-	0.3-
1998 10 19	699	0.1-	0.5-	2000 02 13	704	(1.3-	2.6+)	2000 03 27	699	0.4-	0.2-
1998 10 19	699	0.5+	0.3+	2000 03 01	703	0.9+	0.5-	2000 03 27	699	0.5-	0.3-
1998 10 19	699	0.1-	1.1-	2000 03 01	703	0.1-	0.1-	2000 03 27	699	0.3-	0.1+
1998 11 13	704	0.4+	1.9+	2000 03 01	703	0.0	0.2-	2000 04 04	699	0.4+	0.2+
1998 11 13	704	1.0-	0.7+	2000 03 01	703	0.3+	0.4-	2000 04 04	699	0.2-	0.4-
1998 11 13	704	0.9-	0.3+	2000 03 08	704	0.1+	0.1+	2000 04 04	699	0.5-	0.1-
1998 11 13	704	0.9+	1.9-	2000 03 08	704	0.1-	0.2-	2000 04 04	699	0.7-	0.1+
1998 11 13	704	0.3-	1.3+	2000 03 08	704	0.6-	0.2+	2000 04 05	704	0.2-	0.5-
1998 12 17	699	0.8+	0.3+	2000 03 08	704	0.9+	1.0+	2000 04 05	704	0.0	0.4-
1998 12 17	699	0.3+	0.2+	2000 03 08	704	0.2+	0.4+	2000 04 05	704	0.5+	0.0
1998 12 17	699	0.2-	0.9-	2000 03 11	699	0.4+	0.5+	2000 04 05	704	0.3+	0.2+
1999 12 14	704	(3.8-	0.2+)	2000 03 11	699	0.5+	0.7+	2000 04 08	704	0.1+	0.1+
1999 12 14	704	1.2-	0.6-	2000 03 11	699	1.0+	0.3+	2000 04 08	704	0.1+	0.4-
1999 12 14	704	1.9-	1.6-	2000 03 11	699	0.3+	0.4+	2000 04 08	704	1.0+	0.1+
2000 02 08	704	1.1-	0.1-	2000 03 13	704	0.1-	0.0	2000 04 08	704	0.4+	0.0
2000 02 08	704	0.1-	0.3-	2000 03 13	704	0.2+	0.1-				

2000 EN₈₅ = 1989 AB₆ = 1998 XD₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

2000 APR. 18

M.P.C. 40171

Residuals in seconds of arc

1989 01 09	033	0.1−	0.6−	1998 12 22	704	1.9+	0.3−	2000 03 14	703	0.6−	1.3+
1989 01 09	033	0.6−	0.4+	2000 02 08	704	0.1+	0.3−	2000 03 14	703	0.6+	0.3+
1989 01 11	033	0.6+	0.4+	2000 02 08	704	0.7+	1.0−	2000 03 14	703	0.1+	0.2−
1989 01 11	033	0.1+	0.7−	2000 02 08	704	0.6+	0.1−	2000 03 27	699	0.8+	0.1+
1997 10 30	704	0.6−	1.4−	2000 02 08	704	1.3+	0.2−	2000 03 27	699	0.2−	0.4+
1997 10 30	704	1.3+	0.2−	2000 02 08	704	0.1+	1.0−	2000 03 27	699	0.7−	0.2−
1997 10 30	704	0.3−	0.7+	2000 03 08	704	0.4−	0.3−	2000 03 27	699	0.5−	0.1+
1997 10 30	704	0.0	0.9−	2000 03 08	704	0.4−	0.6−	2000 03 30	703	0.7−	0.2+
1998 12 15	704	0.9+	0.2+	2000 03 08	704	0.5−	0.4−	2000 03 30	703	0.1−	0.1−
1998 12 15	704	0.3−	1.0+	2000 03 08	704	1.0−	0.5−	2000 03 30	703	0.2−	0.6−
1998 12 15	704	0.7−	0.4−	2000 03 08	704	1.1−	0.6+	2000 03 30	703	0.1+	0.3+
1998 12 15	704	0.4−	1.0+	2000 03 13	704	0.4−	0.3−	2000 04 04	704	1.4+	1.1+
1998 12 15	704	0.6−	0.1+	2000 03 13	704	0.6+	0.1+	2000 04 04	704	1.7+	0.1+
1998 12 22	704	0.0	0.9+	2000 03 13	704	0.1−	0.3−	2000 04 04	704	1.6+	0.2−
1998 12 22	704	0.5−	0.5−	2000 03 13	704	0.1+	0.1−	2000 04 04	704	0.4−	0.3−
1998 12 22	704	0.2−	0.6−	2000 03 13	704	1.7−	0.6+				
1998 12 22	704	0.1+	0.1−	2000 03 14	703	0.6−	0.1−				

2000 EO₈₅ = 1997 LC₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	283.32316		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28791420	ω	24.70802	−0.41699203	+0.90606674
<i>a</i>	2.2714019	Ω	220.75159	−0.85113784	−0.41699458
<i>e</i>	0.0853216	<i>i</i>	6.31816	−0.31887619	−0.07182330
<i>P</i>	3.42	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1997 05 04	809	(4.6+	3.2+)	1998 10 27	691	0.4−	1.5+	2000 03 13	704	0.5+	0.4+
1997 05 04	809	(4.2+	3.3+)	1998 10 27	691	0.1−	1.4+	2000 03 27	699	0.7−	0.4+
1997 05 04	809	(4.0+	3.2+)	1998 10 27	691	0.3−	1.3+	2000 03 27	699	0.8−	0.3+
1997 06 07	809	0.7−	1.0−	1998 11 11	704	0.4−	1.1+	2000 03 27	699	0.7−	0.2+
1997 06 07	809	1.0−	0.3−	1998 11 11	704	0.2+	0.9+	2000 03 27	699	0.8−	0.2+
1997 06 07	809	0.7−	0.4−	1998 11 11	704	0.4+	0.6+	2000 04 04	699	0.3−	0.6+
1997 06 07	809	0.9+	1.0+	1998 11 11	704	1.6−	1.6+	2000 04 04	699	0.1−	0.4+
1997 06 07	809	0.8+	1.2+	2000 02 08	704	0.9−	0.8−	2000 04 04	699	0.9+	0.9+
1997 06 07	809	0.8+	1.1+	2000 02 08	704	0.2+	0.0	2000 04 04	699	0.4−	0.9+
1997 06 08	809	1.4−	0.1+	2000 02 08	704	1.2+	1.5−	2000 04 04	704	0.7+	0.8−
1997 06 08	809	0.8−	0.8−	2000 02 08	704	0.5+	0.2−	2000 04 04	704	0.1+	0.1−
1997 06 08	809	1.2−	0.4+	2000 02 08	704	0.5+	1.2−	2000 04 04	704	0.1−	0.1−
1997 06 08	809	1.7+	1.6+	2000 03 08	704	0.6+	0.1+	2000 04 04	704	0.5−	0.2−
1997 06 08	809	1.3+	1.7+	2000 03 08	704	0.2+	1.8+	2000 04 04	704	0.2−	0.4+
1997 06 08	809	1.3+	1.5+	2000 03 08	704	0.6+	1.0+	2000 04 08	704	0.3−	0.0
1998 06 24	691	0.2−	0.9+	2000 03 08	704	1.2+	1.0+	2000 04 08	704	0.2−	0.5+
1998 06 24	691	0.2−	0.8+	2000 03 13	704	0.4−	0.0	2000 04 08	704	0.6+	0.5+
1998 06 24	691	0.7−	1.0+	2000 03 13	704	0.1+	0.4+	2000 04 08	704	0.1+	0.3−

2000 EL₈₆ = 1991 PC₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	290.83185		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.30979956	ω	2.27016	−0.21611135	+0.97475676
<i>a</i>	2.1631278	Ω	255.25289	−0.89671206	−0.22087617
<i>e</i>	0.1938082	<i>i</i>	3.32456	−0.38626851	−0.03260340
<i>P</i>	3.18	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1991 08 05	675	0.1−	0.9−	2000 03 08	704	0.6+	0.1+	2000 03 13	704	0.4−	0.8−
1991 08 05	675	0.4+	0.2+	2000 03 08	704	0.3+	0.0	2000 03 13	704	0.2+	0.2+
1991 08 08	675	0.3+	0.4−	2000 03 08	704	0.7+	0.5+	2000 04 04	704	0.4−	0.2+
1991 08 08	675	0.4−	0.6+	2000 03 08	704	0.6−	0.2+	2000 04 04	704	1.3+	0.6−
2000 02 08	704	1.1+	0.4−	2000 03 08	608	0.5−	1.6−	2000 04 04	704	0.9+	0.9+
2000 02 08	704	0.0	0.1−	2000 03 08	608	(0.8−	2.9−)	2000 04 04	704	0.1−	1.4+
2000 02 08	704	0.5+	0.1−	2000 03 08	608	0.8−	1.9−	2000 04 08	704	0.4−	0.3+
2000 02 08	704	0.7−	0.6+	2000 03 13	704	0.0	0.3+	2000 04 08	704	0.5−	0.9−
2000 03 01	703	0.2−	0.0	2000 03 13	704	0.0	0.3+	2000 04 08	704	0.8−	0.5+
2000 03 01	703	0.3−	0.3+	2000 03 13	704	0.3+	0.9−	2000 04 08	704	0.3+	0.9+

2000 03 01	703	0.7−	0.2+	2000 03 13	704	0.8+	0.2−
2000 03 01	703	0.7−	0.7+	2000 03 13	704	0.1+	0.3−

2000 EY₈₆ = 1609 T-2 = 1998 XT₇₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	325.88217		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20538120	ω	325.09782	−0.84887136	+0.52662121
<i>a</i>	2.8450873	Ω	246.74249	−0.47295879	−0.79527688
<i>e</i>	0.0891092	<i>i</i>	2.85052	−0.23606651	−0.30034112
<i>P</i>	4.80	<i>H</i>	13.5	<i>G</i>	0.15
				<i>U</i>	1

Residuals in seconds of arc

1973 09 19	675	1.6−	0.8+	1998 12 17	704	0.3+	0.5+	2000 03 08	704	0.2−	0.1−
1973 09 19	675	0.5−	0.2+	1998 12 17	704	0.2+	0.4−	2000 03 13	704	0.4−	0.1+
1973 09 20	675	0.5−	1.1−	1998 12 17	704	0.7−	0.4−	2000 03 13	704	1.2−	0.2+
1973 09 24	675	1.3+	0.3−	1998 12 17	704	0.2+	0.3+	2000 03 13	704	0.8−	0.0
1973 09 24	675	1.3+	0.5−	1998 12 17	704	(2.7+	1.5+)	2000 03 13	704	0.5−	0.2+
1973 09 25	675	(0.8+	3.0−)	1998 12 17	704	0.3−	0.3+	2000 03 13	704	0.3−	0.2−
1973 09 25	675	0.4+	0.3−	1998 12 17	704	0.2−	0.7+	2000 03 14	608	0.1+	0.7−
1997 10 10	691	0.1−	0.0	1998 12 17	704	0.0	0.9−	2000 03 14	608	0.2−	1.7−
1997 10 10	691	0.1+	0.2−	1998 12 17	704	1.3−	0.5+	2000 03 14	608	0.3−	1.1−
1997 10 10	691	0.1+	0.1+	1999 12 17	704	0.5+	0.9−	2000 04 04	704	0.4+	0.4−
1998 12 15	704	0.0	1.5+	1999 12 17	704	0.5+	0.6−	2000 04 04	704	0.1−	0.8+
1998 12 15	704	0.8+	1.2−	1999 12 17	704	0.5−	0.0	2000 04 04	704	0.3−	0.5+
1998 12 15	704	0.5−	0.7+	2000 02 08	704	0.5+	0.0	2000 04 04	704	0.1−	0.6+
1998 12 15	704	(2.5+	1.9−)	2000 02 08	704	0.2+	0.2−	2000 04 04	704	0.3−	0.7+
1998 12 15	704	0.1+	0.0	2000 02 08	704	(0.7+	2.4−)	2000 04 08	704	0.3+	0.0
1998 12 16	704	1.5+	1.6−	2000 02 08	704	0.4+	1.3−	2000 04 08	704	0.3+	0.5+
1998 12 16	704	0.2+	0.4+	2000 03 08	704	0.2+	0.2+	2000 04 08	704	0.5+	0.5+
1998 12 16	704	0.8−	1.0−	2000 03 08	704	0.3−	0.2+	2000 04 08	704	0.5+	0.1−
1998 12 17	704	0.5+	1.6+	2000 03 08	704	0.4+	1.2+	2000 04 08	704	0.6+	0.1+

2000 EB₈₇ = 1998 XA₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	263.27227		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28778870	ω	69.33697	+0.22890074	+0.97260911
<i>a</i>	2.2720623	Ω	213.97612	−0.91789642	+0.20181563
<i>e</i>	0.1387049	<i>i</i>	4.15046	−0.32414598	+0.11533415
<i>P</i>	3.42	<i>H</i>	15.6	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1998 12 15	910	0.3−	0.2+	2000 03 01	703	0.1−	0.2+	2000 03 08	704	0.5+	0.4−
1998 12 15	910	0.3−	0.0	2000 03 01	703	0.3−	0.0	2000 03 08	704	1.1−	0.8+
1998 12 16	910	0.3−	0.1+	2000 03 01	703	0.8+	0.2−	2000 03 13	704	0.2−	0.0
1998 12 16	910	0.0	0.0	2000 03 01	703	0.7−	0.1+	2000 03 13	704	0.7+	1.4+
1998 12 16	910	0.5+	0.2−	2000 03 06	608	0.1−	1.0−	2000 03 13	704	0.9+	0.8+
1998 12 16	910	0.0	0.1+	2000 03 06	608	0.1+	0.8−	2000 04 02	699	1.0−	0.1+
1998 12 22	910	0.1+	0.3−	2000 03 06	608	0.0	0.6−	2000 04 02	699	0.4+	0.2−
1998 12 22	910	0.5+	0.1+	2000 03 08	704	0.7+	0.6−	2000 04 02	699	0.6+	0.2+
1998 12 22	910	0.2−	0.0	2000 03 08	704	0.9−	0.7+	2000 04 02	699	0.3−	0.3−

2000 EC₈₇ = 1991 RU₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	152.25045		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28732455	ω	40.40540	+0.96691768	−0.24951726

1991 09 17	675	0.9+	1.8−	1999 01 08	704	0.3+	0.4−	2000 04 04	704	0.2+	0.2−
1998 08 31	704	0.4−	0.5+	1999 01 08	704	(2.7+	2.4−)	2000 04 04	704	1.3−	0.2−
1998 08 31	704	0.6+	1.4−	1999 01 08	704	(0.1+	2.6−)	2000 04 04	704	0.1−	0.3+
1998 08 31	704	0.5+	0.2+	1999 01 08	704	(2.5−	0.7−)	2000 04 08	704	0.5−	0.3+
1998 08 31	704	2.0+	0.7−	2000 03 08	704	0.0	1.6+	2000 04 08	704	0.5+	0.7−
1998 08 31	704	0.0	1.2−	2000 03 08	704	0.4+	1.0+	2000 04 08	704	0.2+	0.8−
1998 09 20	699	0.7−	0.6−	2000 03 08	704	0.4−	0.6+				

2000 EJ₈₇ = 1997 QR₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i> 330.91626				(2000.0)			
				<i>P</i>			
<i>n</i> 0.25385508				<i>Q</i>			
<i>a</i> 2.4702760				<i>ω</i> 234.57296			
<i>e</i> 0.1070317				<i>Ω</i> 334.49803			
<i>P</i> 3.88				<i>i</i> 3.72500			
				<i>H</i> 14.8			
				<i>G</i> 0.15			
				<i>U</i> 4			

Residuals in seconds of arc

1997 08 29	552	(0.7+	2.6+)	2000 03 08	704	1.4+	0.7+	2000 04 04	704	0.9−	0.7−
1997 08 29	552	0.5−	0.8−	2000 03 08	704	1.7+	1.4+	2000 04 04	704	0.1+	0.4+
1997 08 30	552	1.1+	1.4+	2000 03 11	704	0.2−	0.7−	2000 04 04	704	0.2−	0.1−
1997 08 30	552	0.3−	0.3−	2000 03 11	704	0.1+	0.4−	2000 04 04	704	0.2+	0.2−
1997 08 30	552	0.1+	0.4−	2000 03 11	704	0.5−	0.6−	2000 04 04	704	0.1−	0.6−
1997 08 30	552	0.3+	0.2−	2000 03 11	704	0.3−	0.7−	2000 04 08	704	0.3+	1.1+
1997 08 31	552	0.3−	0.5+	2000 03 11	704	0.3−	0.5−	2000 04 08	704	0.1+	0.4−
1997 08 31	552	0.5−	0.3−	2000 03 26	699	0.4−	0.1−	2000 04 08	704	0.6+	0.1+
2000 03 08	704	0.1+	0.0	2000 03 26	699	0.8−	0.1+	2000 04 08	704	0.6+	0.9+
2000 03 08	704	1.2−	0.6+	2000 03 26	699	0.5+	0.2−				
2000 03 08	704	0.1−	0.1+	2000 03 26	699	0.4−	0.3−				

2000 EQ₈₇ = 1993 TF₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i> 238.92327				(2000.0)			
				<i>P</i>			
<i>n</i> 0.21923961				<i>Q</i>			
<i>a</i> 2.7238930				<i>ω</i> 282.21957			
<i>e</i> 0.0517814				<i>Ω</i> 22.84482			
<i>P</i> 4.50				<i>i</i> 13.79496			
				<i>H</i> 13.3			
				<i>G</i> 0.15			
				<i>U</i> 1			

Residuals in seconds of arc

1993 10 08	691	0.4−	0.8+	2000 03 08	704	0.6+	0.3+	2000 03 29	704	0.0	0.6−
1993 10 08	691	0.4−	1.1+	2000 03 11	699	0.1−	0.4+	2000 04 05	704	0.5−	0.7+
1993 10 08	691	0.1−	1.2+	2000 03 11	699	0.1−	0.7+	2000 04 05	704	0.1+	0.1−
1993 10 12	691	0.7−	1.0+	2000 03 11	699	0.4−	0.6+	2000 04 05	704	0.1+	0.5+
1993 10 12	691	0.8−	0.7+	2000 03 11	699	0.5+	0.1+	2000 04 05	704	0.2+	0.1−
1993 10 12	691	0.7−	1.0+	2000 03 12	703	0.2+	0.1−	2000 04 05	704	0.6+	0.2+
1997 12 03	910	0.1−	0.2−	2000 03 12	703	0.1−	0.1+	2000 04 08	704	0.1+	0.3−
1997 12 03	910	0.2−	0.1−	2000 03 12	703	0.0	0.2+	2000 04 08	704	0.0	0.4+
1997 12 03	910	0.1+	0.2+	2000 03 12	703	0.1−	0.3+	2000 04 08	704	0.1+	0.1+
1998 12 17	704	(1.2−	2.7+)	2000 03 12	704	0.5+	0.1−	2000 04 08	704	0.2−	0.3+
1998 12 17	704	1.9−	0.8−	2000 03 12	704	0.3+	0.3+	2000 04 08	704	0.2+	0.3+
1998 12 17	704	0.2−	1.0−	2000 03 12	704	0.2−	0.1+	2000 04 10	704	0.4+	0.2−
1998 12 17	704	1.1+	0.9−	2000 03 12	704	0.3−	0.0	2000 04 10	704	0.2+	0.5+
1998 12 17	704	1.2+	1.0−	2000 03 29	704	0.1−	0.5−	2000 04 10	704	0.4+	0.2+
2000 03 08	704	0.0	0.5+	2000 03 29	704	0.1−	0.5−	2000 04 10	704	0.3+	0.5+
2000 03 08	704	0.4+	0.1+	2000 03 29	704	0.6−	1.1−	2000 04 10	704	0.5+	0.2+

2000 ER₈₇ = 1980 RS₄ = 1980 TE₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i> 222.55849				(2000.0)			
				<i>P</i>			
<i>n</i> 0.23091957				<i>Q</i>			
<i>a</i> 2.6312506				<i>ω</i> 324.27424			
<i>e</i> 0.2332846				<i>Ω</i> 3.63071			
<i>P</i> 4.27				<i>i</i> 1.99433			
				<i>H</i> 13.8			
				<i>G</i> 0.15			
				<i>U</i> 2			

Residuals in seconds of arc

1980 09 07	095	(5.8+	4.4+)	2000 02 11	704	0.0	0.5−	2000 03 30	703	0.8+	0.3+
1980 10 07	675	0.5−	0.3+	2000 02 11	704	0.7−	1.3−	2000 03 30	703	0.2−	0.3+
1980 10 08	675	0.1+	0.5−	2000 02 27	703	0.4+	1.2+	2000 04 02	691	0.2−	0.3−
1980 10 09	675	0.6+	0.6−	2000 02 27	703	0.5−	0.3−	2000 04 02	691	0.3−	0.3−
1980 10 10	675	0.5+	0.6−	2000 02 27	703	0.8−	0.2−	2000 04 02	691	0.4−	0.4−
1980 10 10	095	(0.2+	2.7−)	2000 02 27	703	0.3−	0.4+	2000 04 04	704	1.6+	0.1−
1980 10 15	095	(3.2+	2.3−)	2000 03 08	704	1.3+	0.1+	2000 04 04	704	0.2−	1.2+
1996 05 14	566	0.7−	1.3−	2000 03 08	704	(2.5+	0.6+)	2000 04 04	704	0.2−	0.1+
1996 05 14	566	0.5−	0.1+	2000 03 08	704	0.2−	0.7+	2000 04 04	704	0.2−	0.6+
1996 05 14	566	0.6−	0.6−	2000 03 08	704	(0.9−	2.0+)	2000 04 04	704	0.4+	1.0+
1997 09 28	566	0.3−	2.0+	2000 03 11	704	0.2+	0.1+	2000 04 05	704	0.0	0.0
1997 09 28	566	0.2−	2.0+	2000 03 11	704	0.6+	0.1−	2000 04 05	704	0.2−	0.2+
1997 09 28	566	(0.1+	2.3+)	2000 03 11	704	0.5+	0.0	2000 04 05	704	0.1+	0.2+
1997 11 26	566	0.1−	0.1+	2000 03 11	704	0.2+	0.2−	2000 04 05	704	0.5+	0.7+
1997 11 26	566	0.3+	0.9−	2000 03 11	704	0.5−	0.7−	2000 04 05	704	0.2+	0.1−
1997 11 26	566	0.6−	0.1+	2000 03 26	699	0.0	0.5+	2000 04 06	704	0.3−	0.7+
1997 11 26	566	0.4−	0.7−	2000 03 26	699	1.0−	0.2+	2000 04 06	704	1.0−	0.6+
1997 11 26	566	0.9−	0.0	2000 03 26	699	0.2−	0.1+	2000 04 06	704	0.1−	0.3+
1997 11 26	566	0.4+	0.5−	2000 03 26	699	0.7+	0.2+	2000 04 07	691	0.3+	0.2−
2000 02 11	704	0.6+	0.5−	2000 03 30	703	0.2+	0.1−	2000 04 07	691	0.3+	0.3−
2000 02 11	704	0.4+	0.5+	2000 03 30	703	0.4+	0.8+	2000 04 07	691	0.5+	1.7−

2000 EL₈₈ = 1990 TA

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i> 142.97699				(2000.0)			
				<i>P</i>			
<i>n</i> 0.35953616				<i>Q</i>			
<i>a</i> 1.9587289				<i>ω</i> 78.19235			
<i>e</i> 0.1033229				<i>Ω</i> 286.57711			
<i>P</i> 2.74				<i>i</i> 17.47829			
				<i>H</i> 14.6			
				<i>G</i> 0.15			
				<i>U</i> 4			

Residuals in seconds of arc

1990 10 07	413	0.6−	1.2+	2000 02 10	704	0.1+	0.8−	2000 03 09	704	0.1+	0.3+
1990 10 09	413	(3.2+	4.1−)	2000 02 10	704	0.3−	0.2−	2000 03 09	704	0.6−	0.1−
1990 10 09	413	0.2+	0.8−	2000 02 10	704	0.7+	0.1+	2000 03 12	704	0.1+	0.3+
1999 12 14	704	1.4−	0.2−	2000 03 05	608	0.6−	0.9−	2000 03 12	704	0.3+	0.2+
1999 12 14	704	(2.3−	1.0−)	2000 03 05	608	0.5−	0.7−	2000 03 12	704	0.4+	0.6+
1999 12 14	704	(3.2−	0.4+)	2000 03 05	608	0.3−	0.5−	2000 03 12	704	0.5+	0.3+
2000 01 07	699	0.5+	0.7+	2000 03 09	704	0.2+	0.5+	2000 03 12	704	0.2+	0.4+
2000 01 07	699	0.0	1.0+	2000 03 09	704	0.2+	0.0				
2000 01 07	699	0.7−	0.1−	2000 03 09	704	0.8+	0.1+				

2000 APR. 18

M.P.C. 40173

2000 EU₉₀ = 1989 MN = 1998 XF₆₆
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25596654	ω	323.70758	-0.41440301	+0.90720138		
<i>a</i>	2.4566724	Ω	281.71051	-0.81659382	-0.40581612		
<i>e</i>	0.1470296	<i>i</i>	4.24595	-0.40180178	-0.11090057		
<i>P</i>	3.85	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1989 06 29	808	0.1+	1.0-	2000 02 08	704	0.2+	0.7+
1989 06 29	808	(6.1-	0.8+)	2000 02 08	704	0.1-	1.1+
1998 12 14	704	0.2-	0.6-	2000 02 08	704	0.1+	0.7+
1998 12 14	704	0.3-	0.7-	2000 02 08	704	0.1+	0.6+
1998 12 14	704	0.4-	0.1+	2000 03 01	703	0.1+	0.1+
1998 12 14	704	0.4-	1.1+	2000 03 01	703	0.2-	0.4+
1998 12 17	704	1.5+	1.0-	2000 03 01	703	1.0-	0.9-
1998 12 17	704	(1.6-	2.9-)	2000 03 01	703	0.1-	0.2+
1998 12 17	704	(0.5+	3.4-)	2000 03 06	608	0.7-	0.6-
1998 12 17	704	(0.0	2.5-)	2000 03 06	608	0.2-	0.3-
1999 12 16	704	0.2+	0.8-	2000 03 06	608	0.4-	0.4-
1999 12 16	704	0.6-	1.5-	2000 03 09	704	0.5+	0.6+
1999 12 16	704	1.1-	0.5+	2000 03 09	704	0.1+	0.2+
1999 12 16	704	1.4-	1.1-	2000 03 09	704	0.3+	0.1+
2000 01 05	704	0.1+	0.3+	2000 03 09	704	0.2+	0.4+
2000 01 05	704	0.7+	0.2-	2000 03 09	704	0.4+	0.3+
2000 01 05	704	1.0+	0.0	2000 03 13	704	0.5+	0.1-
2000 01 05	704	1.0+	0.4+	2000 03 13	704	0.4-	1.0-
2000 02 08	704	0.1+	0.6+	2000 03 13	704	0.7-	0.8-

2000 EV₉₀ = 1996 AS₅
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27032611	ω	176.13246	-0.67993703	-0.72894476		
<i>a</i>	2.3688854	Ω	316.68189	+0.66961398	-0.57304575		
<i>e</i>	0.0556872	<i>i</i>	6.65705	+0.29883567	-0.37451048		
<i>P</i>	3.65	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1996 01 12	691	0.0	0.4+	2000 03 06	608	0.1-	1.0-
1996 01 12	691	0.1+	0.3+	2000 03 06	608	0.6-	0.8-
1996 01 12	691	0.1-	0.2+	2000 03 09	704	0.3+	0.1-
1996 01 18	691	0.1-	0.4-	2000 03 09	704	0.7+	0.1+
1996 01 18	691	0.1+	0.4-	2000 03 09	704	0.4+	1.2+
1996 01 18	691	0.0	0.2-	2000 03 09	704	0.1+	1.2+
2000 03 01	703	0.4+	0.2-	2000 03 13	704	0.1+	0.4+
2000 03 01	703	0.0	0.2-	2000 03 13	704	0.2-	0.5+
2000 03 01	703	0.3+	0.8-	2000 03 13	704	0.1-	0.7+
2000 03 01	703	0.0	0.2+	2000 04 02	699	0.4+	0.4+
2000 03 06	608	0.4-	0.7-	2000 04 02	699	0.4-	0.6+

2000 EW₉₀ = 1981 JQ₄ = 1998 UP₃₂
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25514645	ω	274.58617	-0.96504785	-0.25500156		
<i>a</i>	2.4619338	Ω	250.64934	+0.25860693	-0.88917673		
<i>e</i>	0.0898550	<i>i</i>	3.67475	+0.04248647	-0.37991965		
<i>P</i>	3.86	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1981 05 08	675	0.4-	1.8-	2000 01 05	704	0.4+	0.1-
1981 05 09	675	(7.1-	1.2-)	2000 03 09	704	0.1+	0.3+
1998 10 30	327	0.5+	0.2-	2000 03 09	704	0.3+	0.5+
1998 10 30	327	0.4+	1.0-	2000 03 09	704	0.0	0.2+
1998 10 30	327	0.6+	0.0	2000 03 09	704	0.4+	0.3+
1998 11 01	327	0.2-	0.4-	2000 03 09	704	0.1-	0.4+
				2000 04 08	704	0.5-	0.1-

1998 11 01	327	0.6-	0.3-	2000 03 13	704	0.2-	0.9-	2000 04 08	704	0.6-	0.1-
1998 11 01	327	0.2-	0.2-	2000 03 13	704	0.6-	1.0-	2000 04 08	704	0.5-	1.1+
2000 01 05	704	0.1-	0.4-	2000 03 13	704	0.7+	0.7-	2000 04 08	704	0.1+	0.2-
2000 01 05	704	0.1-	0.1+	2000 04 04	704	0.3+	0.1+				

2000 EB₉₁ = 1978 WG₂₁ = 1991 RD₂₀ = 1998 VT₃₈
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29894852	ω	342.53138	-0.26966250	+0.96107597		
<i>a</i>	2.2151601	Ω	271.79210	-0.87615559	-0.27078344		
<i>e</i>	0.1212947	<i>i</i>	3.44872	-0.39954163	-0.05485719		
<i>P</i>	3.30	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1978 11 28	675	0.3-	0.3-	1999 01 19	910	1.4-	0.1+
1978 11 29	675	0.1+	0.3+	1999 01 19	910	1.1-	0.1+
1991 09 14	675	1.2+	0.0	1999 01 19	910	1.4-	0.0
1991 09 14	675	0.4-	0.1-	1999 03 16	691	0.5+	0.5-
1991 09 17	675	1.1-	0.5-	1999 03 16	691	0.7+	0.4-
1991 09 17	675	0.9+	0.4-	1999 03 16	691	1.5+	0.1-
1992 12 24	691	0.7-	0.6-	1999 12 16	704	0.8-	0.8-
1992 12 24	691	0.4-	0.2-	1999 12 16	704	0.1-	0.0
1992 12 24	691	1.1+	0.6-	1999 12 16	704	0.5+	0.1-
1998 10 19	699	0.1+	0.2+	1999 12 16	704	0.9-	0.2-
1998 10 19	699	1.2+	1.8+	2000 01 05	704	1.2-	1.1-
1998 10 19	699	0.8-	0.4+	2000 01 05	704	0.1+	0.4+
1998 11 10	704	0.4-	0.2+	2000 01 05	704	0.3-	1.6+
1998 11 10	704	0.2+	0.4+	2000 01 05	704	0.6-	0.2+
1998 11 10	704	0.3-	1.0-	2000 02 08	704	1.1+	0.7+
1998 11 10	704	0.1-	0.3+	2000 02 08	704	0.1+	0.2+
1998 11 11	704	0.2+	0.0	2000 02 08	704	0.5+	0.5-
1998 11 11	704	0.6-	0.3-	2000 02 08	704	0.5+	0.1-
1998 11 11	704	0.5-	0.9-	2000 02 08	704	0.2-	0.5-
1998 11 11	704	1.7+	0.1-	2000 03 01	703	0.5-	0.1+
1998 11 11	704	0.1+	0.3-	2000 03 01	703	0.2+	0.0
1999 01 08	699	0.2-	0.1+	2000 03 01	703	0.4-	0.2-
1999 01 08	699	0.3-	0.7+	2000 03 01	703	0.2-	0.2-
1999 01 08	699	0.8+	0.3+	2000 03 09	704	0.1+	0.0

2000 EJ₉₁ = 1997 UZ₂₂
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18980451	ω	317.25438	+0.12316851	+0.98750691		
<i>a</i>	2.9986909	Ω	319.52743	-0.86471895	+0.05820243		
<i>e</i>	0.0928713	<i>i</i>	8.70914	-0.48691956	+0.14643283		
<i>P</i>	5.19	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1996 08 17	566	0.3-	0.7+	2000 03 01	703	0.5-	0.7+
1996 08 17	566	0.5+	0.5+	2000 03 01	703	0.4-	0.0
1996 08 17	566	0.9-	0.8+	2000 03 09	704	0.1-	0.0
1997 10 25	688	0.2-	0.9+	2000 03 09	704	0.2-	0.1+
1997 10 25	688	0.0	0.9+	2000 03 09	704	0.6-	0.2+
1997 10 26	688	0.1-	0.5+	2000 03 09	704	0.0	0.0
1997 10 26	688	0.4-	0.2+	2000 03 09	704	0.6-	0.2-
1998 12 17	704	0.8+	1.5+	2000 03 12	704	0.2-	0.2+
1998 12 17	704	0.2+	0.0	2000 03 12	704	0.8+	0.7-
1998 12 17	704	0.7+	1.3-	2000 03 12	704	0.5-	0.5-
1998 12 17	704	1.3-	0.0	2000 03 12	704	0.0	0.4+
1998 12 17	704	0.5-	0.3+	2000 03 12	704	0.3-	0.8+
2000 01 11	699	0.2+	0.4+	2000 03 13	704	1.0+	0.8-
2000 01 11	699	0.5+	0.1-	2000 03 13	704	0.1+	0.8+
2000 01 11	699	0.8-	0.2+	2000 03 13	704	0.2+	0.1+
2000 03 01	703	0.0	0.2+	2000 03 13	704	0.8-	0.3+
2000 03 01	703	0.2-	0.7-	2000 03 13	704	0.1-	0.3+

2000 EL₉₁ = 1990 OB₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	231.37104	(2000.0)	P		Q	
<i>n</i>	0.27180476	ω	85.98509	+0.69489729	+0.71453119	
<i>a</i>	2.3602863	Ω	228.38487	-0.69527045	+0.63881810	
<i>e</i>	0.1333192	<i>i</i>	6.22075	-0.18362126	+0.28523081	
<i>P</i>	3.63	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1990 07 25	675	0.3+	0.9-	2000 03 09	704	0.1-	0.7-	2000 04 07	704	0.8-	0.6+
1990 07 25	675	0.4+	0.7-	2000 03 09	704	0.2-	0.3+	2000 04 07	704	0.1-	0.5+
1990 07 27	675	0.7+	1.6-	2000 03 09	704	0.6+	0.0	2000 04 07	704	0.3-	1.1+
1990 07 27	675	0.6-	1.2-	2000 03 13	704	0.2+	0.2-	2000 04 07	704	0.1+	1.4+
1990 07 29	675	(5.0-	0.9-)	2000 03 13	704	0.5+	0.1+	2000 04 07	704	0.1-	1.0+
1990 07 29	675	0.1+	1.4+	2000 03 13	704	0.2-	0.7-	2000 04 08	704	1.2+	1.4-
1998 12 16	704	0.1-	0.4+	2000 03 13	704	0.8+	0.5-	2000 04 08	704	0.4-	0.7-
1998 12 16	704	0.8+	0.6-	2000 03 13	704	1.4-	0.5-	2000 04 08	704	0.7+	0.6-
1998 12 16	704	0.2+	1.0-	2000 03 26	699	0.1-	0.4-	2000 04 08	704	0.3+	0.0
1998 12 16	704	0.7-	1.1-	2000 03 26	699	0.8-	0.6-	2000 04 08	704	0.3+	0.4-
2000 03 09	704	0.7-	0.2-	2000 03 26	699	0.5-	0.6-				
2000 03 09	704	0.6-	0.2+	2000 03 26	699	0.3+	0.3-				

2000 ET₉₁ = 1982 PV = 1998 VD₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	228.71795	(2000.0)	P		Q	
<i>n</i>	0.31470334	ω	15.18886	+0.71564696	+0.69714929	
<i>a</i>	2.1405981	Ω	300.53027	-0.64589432	+0.63721627	
<i>e</i>	0.1351789	<i>i</i>	2.84850	-0.26583823	+0.32853965	
<i>P</i>	3.13	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1982 08 14	095	0.4-	1.0+	2000 03 09	704	0.4-	0.4+	2000 04 06	704	0.3+	0.7+
1998 08 31	704	(2.4+	0.2-)	2000 03 09	704	0.3+	0.4+	2000 04 06	704	0.0	0.1-
1998 08 31	704	0.7-	1.4+	2000 03 09	704	0.0	0.2+	2000 04 06	704	1.4+	0.5-
1998 08 31	704	0.4+	1.5-	2000 03 09	704	0.3-	0.6+	2000 04 06	704	0.7-	0.3+
1998 08 31	704	1.8+	0.1-	2000 03 09	704	0.1+	0.8+	2000 04 07	704	0.3+	0.1-
1998 08 31	704	1.1-	1.6+	2000 03 13	704	0.6+	0.2+	2000 04 07	704	0.4+	0.5-
1998 11 10	699	0.5-	0.2+	2000 03 13	704	0.6+	0.1+	2000 04 07	704	0.0	0.4-
1998 11 10	704	0.1-	0.4-	2000 03 13	704	1.0-	0.9-	2000 04 07	704	0.3+	0.6-
1998 11 10	704	0.3+	0.2+	2000 03 13	704	0.3-	0.1-	2000 04 07	704	0.1+	0.1+
1998 11 10	704	1.1+	1.2+	2000 03 13	704	0.3+	0.2-	2000 04 08	704	0.1+	0.2+
1998 11 10	699	0.4+	0.9+	2000 03 26	699	0.6-	0.2-	2000 04 08	704	0.0	0.2-
1998 11 10	704	(0.9+	2.4+)	2000 03 26	699	0.3-	0.0	2000 04 08	704	0.1-	0.1+
1998 11 10	699	0.2+	0.5+	2000 03 26	699	0.1-	0.3-	2000 04 08	704	0.5+	0.1+
1998 11 11	704	0.4-	0.1+	2000 03 26	699	0.6-	0.4+	2000 04 08	704	0.1+	0.4+
1998 11 11	704	0.6-	0.1+	2000 04 02	699	0.4+	0.2+	2000 04 08	704	0.2-	0.0
1998 11 11	704	1.2-	0.1-	2000 04 02	699	0.4-	0.3+	2000 04 08	704	0.5-	0.4-
1998 11 11	704	(1.8-	2.3-)	2000 04 02	699	0.2-	0.1+	2000 04 08	704	0.3+	0.4-
1998 11 18	704	1.2-	0.4+	2000 04 02	699	0.2-	0.3+	2000 04 08	704	0.6-	0.6-
1998 11 18	704	0.3-	0.2+	2000 04 04	704	1.3+	0.1+	2000 04 08	704	0.1-	0.6+
1998 11 18	704	1.2+	1.6-	2000 04 04	704	0.2+	0.8+				
1998 11 18	704	0.6+	1.6-	2000 04 04	704	(1.4-	2.2+)				

2000 EU₉₁ = 1998 TL₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	37.66911	(2000.0)	P		Q	
<i>n</i>	0.23859924	ω	222.00962	-0.55793107	-0.82861160	
<i>a</i>	2.5744829	Ω	261.95262	+0.77323911	-0.49892096	
<i>e</i>	0.1479721	<i>i</i>	2.66261	+0.30135395	-0.25393048	
<i>P</i>	4.13	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 12	910	0.0	0.2+	2000 03 09	704	0.3-	0.2+	2000 04 04	704	0.0	0.4+
1998 10 12	910	0.2+	0.0	2000 03 13	704	0.3-	0.1-	2000 04 04	704	0.2+	0.4+
1998 10 12	910	0.6+	0.2+	2000 03 13	704	0.2-	1.1-	2000 04 04	704	0.1+	0.1+

1998 10 20	910	0.4-	0.1-	2000 03 13	704	0.1+	0.0	2000 04 07	704	0.0	0.8-
1998 10 20	910	0.3-	0.2-	2000 03 13	704	0.6-	1.3+	2000 04 07	704	0.7+	0.8-
1998 10 20	910	0.2-	0.0	2000 03 26	699	0.2+	0.5-	2000 04 07	704	0.5+	0.3+
2000 03 09	704	0.5+	0.1-	2000 03 26	699	0.2-	0.2-	2000 04 07	704	0.8-	0.5+
2000 03 09	704	0.2+	0.2-	2000 03 26	699	0.7+	0.4-	2000 04 07	704	0.2-	0.7+
2000 03 09	704	0.0	0.0	2000 03 26	699	0.4-	0.4+				

2000 EW₉₁ = 2000 AR₁₆₄ = 1980 TW₈ = 1990 MO

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	269.12291	(2000.0)	P		Q	
<i>n</i>	0.18138996	ω	88.05005	+0.35984464	+0.92889794	
<i>a</i>	3.0907263	Ω	203.63532	-0.91907576	+0.33675327	
<i>e</i>	0.2179449	<i>i</i>	12.60986	-0.16065981	+0.15409689	
<i>P</i>	5.43	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1980 10 13	095	0.2+	1.3-	2000 03 09	704	0.2-	0.7+	2000 04 07	704	0.2-	0.6+
1990 06 18	675	0.0	0.2+	2000 03 09	704	0.8+	0.0	2000 04 07	704	0.2-	0.3-
1990 06 18	675	0.2+	0.2-	2000 03 12	699	0.0	0.1-	2000 04 07	704	0.6+	1.7+
1990 06 23	675	0.2+	0.4+	2000 03 12	699	0.0	0.2+	2000 04 07	704	(2.8+	0.9-)
1990 06 23	675	0.3-	0.8-	2000 03 12	699	0.2+	0.3+	2000 04 07	704	(2.5+	0.8-)
2000 01 05	704	0.0	1.1-	2000 03 12	699	0.1+	0.2+	2000 04 08	704	0.3-	0.1-
2000 01 05	704	0.1+	0.0	2000 03 13	704	0.5+	0.4-	2000 04 08	704	0.3+	0.3+
2000 01 05	704	0.6-	1.3-	2000 03 13	704	0.4+	0.1+	2000 04 08	704	0.1-	0.5-
2000 01 10	704	1.1-	0.5+	2000 03 13	704	0.2-	0.0	2000 04 08	704	1.2-	1.7-
2000 01 10	704	1.0+	0.0	2000 03 13	704	0.4+	0.1-	2000 04 08	704	0.7-	0.3+
2000 01 10	704	0.4-	0.3+	2000 03 13	704	0.3+	0.6+	2000 04 13	608	0.5-	0.8-
2000 01 10	704	0.0	0.6+	2000 03 26	699	0.2+	0.1-	2000 04 13	608	0.7-	0.6-
2000 03 09	704	0.4+	0.3-	2000 03 26	699	0.1-	0.1-	2000 04 13	608	1.0-	0.6-
2000 03 09	704	0.1+	0.2+	2000 03 26	699	0.7+	0.1-				
2000 03 09	704	0.5+	0.1+	2000 03 26	699	0.5+	0.1-				

2000 EX₉₁ = 1997 UH₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	91.85750	(2000.0)	P		Q	
<i>n</i>	0.17846951	ω	239.12877	+0.28501950	-0.95574316	
<i>a</i>	3.1243526	Ω	194.85394	+0.94754228	+0.29242125	
<i>e</i>	0.0922407	<i>i</i>	16.52839	+0.14466343	-0.03232377	
<i>P</i>	5.52	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 10 17	327	0.7-	0.3-	2000 03 09	704	1.0-	0.8+	2000 03 26	699	0.0	0.2-
1997 10 17	327	0.1+	0.4-	2000 03 09	704	0.6-	0.1+	2000 03 26	699	0.2+	0.3+
1997 10 17	327	0.2+	0.2+	2000 03 09	704	0.0	0.0	2000 04 07	699	0.1-	0.2-
1997 10 17	327	0.2+	0.1-	2000 03 09	704	1.0-	0.4+	2000 04 07	699	0.9-	0.4+
1997 10 19	327	0.2-	0.0	2000 03 13	704	0.6+	0.9-	2000 04 07	699	0.6-	0.5+
1997 10 19	327	0.1-	0.6+	2000 03 13	704	1.0+	0.5+	2000 04 07	699	0.8-	0.0
1997 10 19	327	0.0	0.4-	2000 03 13	704	0.4+	0.1+	2000 04 08	704	0.2+	0.3+
1997 11 02	327	0.2+	0.1-	2000 03 13	704	0.1+	1.4-	2000 04 08	704	0.9+	0.3-
1997 11 02	327	0.5+	0.0	2000 03 26	699	0.6+	0.1-	2000 04 08	704	0.6+	0.3+
1997 11 02	327	0.3-	0.3+	2000 03 26	699	0.3+	0.0	2000 04 08	704	0.1+	0.7-

2000 ED₉₂ = 1046 T-1 = 1997 VE₁ = 1999 BR₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.23512	(2000.0)	P		Q	
<i>n</i>	0.17030825	ω	223.09684	-0.02671576	-0.99830953	
<i>a</i>	3.2233856	Ω	228.50377	+0.93486598	-0.00666597	
<i>e</i>	0.0992719	<i>i</i>	3.95167	+0.35399416	-0.05773770	
<i>P</i>	5.79	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i> 1

Residuals in seconds of arc

1971 03 24	675	(2.2+	3.6-)	1998 12 22	704	0.1+	0.5-	2000 03 13	704	0.7+	0.4+
1971 03 25	675	1.2-	0.0	1998 12 22	704	(0.8+	3.3+)	2000 03 14	608	0.0	0.6-
1971 03 25	675	0.2-	0.9-	1998 12 22	704	0.2+	0.3-	2000 03 14	608	0.2+	0.5-
1971 03 26	675	0.9-	2.5-	1999 01 18	704	0.9-	0.4-	2000 03 14	608	0.5+	0.7-

2000 APR. 18

M.P.C. 40175

1971 03 27	675	0.5+	0.9-	1999 01 18	704	1.1+	1.6+	2000 04 04	704	0.1+	0.4+
1994 03 14	691	0.2+	0.8-	1999 01 18	704	0.3-	1.1+	2000 04 04	704	0.2+	0.5-
1994 03 14	691	0.1-	0.2-	1999 01 18	704	(2.3+	1.1-)	2000 04 04	704	0.1-	0.0
1994 03 14	691	0.1-	0.3-	1999 01 20	704	0.0	0.2+	2000 04 04	704	0.3+	0.7+
1997 10 30	704	0.3-	0.5+	1999 01 20	704	1.6-	0.3-	2000 04 04	704	0.5+	0.8+
1997 10 30	704	0.5+	0.1+	1999 01 20	704	1.0-	0.3-	2000 04 07	699	0.1+	0.0
1997 10 30	704	(1.4-	3.2+)	1999 01 20	704	0.2-	0.1+	2000 04 07	699	0.2-	0.2+
1997 10 30	704	0.7-	0.1-	2000 02 08	704	0.2+	0.0	2000 04 07	699	0.1-	0.6-
1997 11 01	557	0.2-	1.0+	2000 02 08	704	0.1+	0.3+	2000 04 07	699	0.3+	0.6+
1997 11 01	557	0.3-	0.4+	2000 02 08	704	0.4-	1.0+	2000 04 08	704	0.9-	0.4+
1997 11 01	557	0.2-	0.5+	2000 03 09	704	0.4-	0.2+	2000 04 08	704	0.2+	0.2+
1997 11 03	557	0.2-	0.4+	2000 03 09	704	0.4+	0.3+	2000 04 08	704	0.7+	0.3+
1997 11 03	557	0.2+	0.4+	2000 03 09	704	0.3+	0.7+	2000 04 08	704	0.4-	0.6+
1998 12 15	704	0.8+	0.0	2000 03 09	704	0.1+	0.5+	2000 04 08	704	0.2+	0.5-
1998 12 15	704	0.2+	0.4-	2000 03 09	704	0.0	0.4-	2000 04 10	704	0.1+	0.9+
1998 12 15	704	0.3+	0.3+	2000 03 13	704	0.3-	0.0	2000 04 10	704	0.1+	0.5-
1998 12 15	704	(0.1+	3.2+)	2000 03 13	704	0.0	1.2+	2000 04 10	704	0.6-	0.9+
1998 12 22	704	0.0	0.6-	2000 03 13	704	0.6+	1.6+				
1998 12 22	704	0.8+	0.7-	2000 03 13	704	0.3+	0.6+				

2000 EG₉₂ = 1993 TP₁₂ = 1999 BE₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	267.86264	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23804692	ω	94.79976	+0.28721361
<i>a</i>	2.5784636	Ω	192.17072	-0.94075502
<i>e</i>	0.1690481	<i>i</i>	12.09739	-0.18024519
<i>P</i>	4.14	<i>H</i>	13.0	<i>U</i>
				1

Residuals in seconds of arc

1993 10 09	809	(2.4+	1.1+)	1997 10 30	704	(0.3+	3.2-)	2000 04 04	704	0.3-	0.3-
1993 10 09	809	1.5+	1.5+	1998 12 15	704	1.2+	0.7-	2000 04 04	704	0.5-	0.3-
1993 10 09	809	1.8+	1.2+	1998 12 15	704	0.3+	0.7+	2000 04 05	704	0.1-	0.1-
1993 10 10	675	0.4+	0.0	1998 12 15	704	1.5-	1.7-	2000 04 05	704	0.1-	0.2-
1993 10 10	675	0.2-	0.0	1998 12 15	704	0.8-	0.8-	2000 04 05	704	0.0	0.1+
1993 10 11	809	(2.6+	1.6+)	1999 01 18	704	1.0-	1.5+	2000 04 05	704	0.1+	0.1+
1993 10 11	809	(3.0+	1.4+)	1999 01 18	704	1.6-	1.8+	2000 04 05	704	0.5+	0.2-
1993 10 11	809	(3.0+	1.5+)	1999 01 18	704	(0.0	2.5+)	2000 04 06	704	0.2-	0.1-
1993 10 13	675	0.6-	1.3-	1999 01 20	704	0.1+	0.2+	2000 04 06	704	0.2+	0.1-
1993 10 13	675	0.2-	0.1-	1999 01 20	704	1.2+	0.1-	2000 04 06	704	0.3-	0.3-
1993 10 13	675	0.2+	0.8-	1999 01 20	704	(0.8+	3.1-)	2000 04 06	704	0.5+	0.0
1993 10 13	675	0.1-	0.4+	2000 01 10	704	0.2+	0.1+	2000 04 06	704	0.2-	0.0
1993 10 15	675	0.3-	1.8-	2000 01 10	704	1.0+	0.2+	2000 04 06	704	0.3+	0.5+
1996 03 15	566	0.6-	0.1-	2000 01 10	704	0.7+	0.7+	2000 04 06	704	0.1-	0.0
1996 03 15	566	0.8-	0.2-	2000 01 10	704	1.7+	0.7+	2000 04 06	704	0.2-	0.4+
1996 03 15	566	1.0-	0.1+	2000 03 09	704	0.2+	0.3-	2000 04 06	704	0.5-	0.2+
1997 10 04	691	0.5-	0.0	2000 03 09	704	0.3+	0.4-	2000 04 06	704	0.2+	0.1+
1997 10 04	691	0.5-	0.1+	2000 03 09	704	0.1-	0.1+	2000 04 07	704	0.1+	0.1-
1997 10 04	691	0.5-	0.3+	2000 03 09	704	0.6+	0.2-	2000 04 07	704	0.3+	0.2-
1997 10 04	691	0.5-	0.3+	2000 03 09	704	0.4-	0.3+	2000 04 07	704	0.3+	0.1+
1997 10 04	691	0.3-	0.4+	2000 03 13	704	0.3+	0.1+	2000 04 07	699	0.1-	0.3-
1997 10 04	691	0.4-	0.2+	2000 03 13	704	0.3+	0.1-	2000 04 07	704	0.1+	0.1-
1997 10 28	704	(1.2+	3.6-)	2000 03 13	704	0.6+	0.4-	2000 04 07	704	0.2+	0.4-
1997 10 28	704	(0.8-	3.7-)	2000 03 13	704	0.0	0.2-	2000 04 07	699	0.1+	0.3-
1997 10 28	704	(0.2-	3.3-)	2000 03 13	704	0.3+	0.1-	2000 04 07	699	0.0	0.1+
1997 10 28	704	0.4+	1.8-	2000 03 28	608	0.1-	1.2-	2000 04 07	699	0.3-	0.1+
1997 10 28	704	(0.3+	4.7-)	2000 03 28	608	0.0	0.8-	2000 04 10	704	0.1-	0.0
1997 10 30	704	0.5+	1.0-	2000 03 28	608	0.4-	1.0-	2000 04 10	704	0.5-	0.3+
1997 10 30	704	0.2+	0.2-	2000 04 04	704	0.1-	0.5-	2000 04 10	704	0.0	0.4+
1997 10 30	704	0.9+	1.1-	2000 04 04	704	0.3-	0.4-				
1997 10 30	704	0.1+	1.1-	2000 04 04	704	0.5-	0.2-				

2000 EH₉₂ = 1995 GU₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.02715	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.19048812	ω	202.03957	+0.78977435
<i>a</i>	2.9915123	Ω	195.93873	+0.58529836
<i>e</i>	0.0981367	<i>i</i>	9.88750	+0.18352739
<i>P</i>	5.17	<i>H</i>	13.5	<i>U</i>
				4

Residuals in seconds of arc

1995 04 09	695	0.5-	0.3-	2000 03 09	704	0.4+	0.1-	2000 04 06	704	0.8-	0.2-
1995 04 09	695	0.3-	0.2-	2000 03 09	704	0.0	0.6-	2000 04 06	704	0.2-	1.0-
1995 04 09	695	0.1+	0.2-	2000 03 13	704	0.0	0.1-	2000 04 07	704	0.6+	0.5+
1995 04 10	695	0.3-	1.2-	2000 03 13	704	0.5+	1.6-	2000 04 07	704	0.5+	0.7+
1995 04 10	695	0.2-	0.1-	2000 03 13	704	0.9+	0.2-	2000 04 07	704	0.2+	0.2+
1995 04 10	695	0.0	0.1-	2000 03 13	704	0.7+	0.5-	2000 04 07	704	0.2-	0.7+
1995 04 10	695	0.5+	1.1-	2000 03 13	704	0.3-	1.0+	2000 04 07	704	0.6+	0.1-
1998 12 15	704	0.7+	0.5+	2000 04 04	704	1.0-	0.4+	2000 04 07	704	0.4-	0.4+
1998 12 15	704	(2.0+	2.4-)	2000 04 04	704	1.6-	1.6+	2000 04 07	699	1.2-	0.0
1998 12 15	704	(3.3+	0.9-)	2000 04 04	704	(2.3-	1.1+)	2000 04 07	704	0.2+	1.0+
1998 12 15	704	0.3+	0.5+	2000 04 05	704	0.1+	0.2-	2000 04 07	704	0.5+	1.0+
1998 12 22	704	0.1+	1.7-	2000 04 05	704	0.4+	0.1+	2000 04 07	704	0.2+	0.1-
1998 12 22	704	(4.4+	2.0-)	2000 04 05	704	0.2+	0.3-	2000 04 07	704	0.5-	0.0
1998 12 22	704	0.8-	0.4-	2000 04 05	704	0.0	0.4-	2000 04 07	699	0.2+	0.5+
1998 12 22	704	0.3-	0.5+	2000 04 05	704	0.2-	0.4-	2000 04 07	699	0.0	0.6+
2000 03 09	704	0.0	0.3-	2000 04 06	704	0.4+	0.2+	2000 04 07	699	0.1-	0.4+
2000 03 09	704	0.5+	0.0	2000 04 06	704	0.2+	0.2+				

2000 EN₉₂ = 1994 NV₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	78.32598	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.29184413	ω	180.47770	-0.05788682
<i>a</i>	2.2509650	Ω	272.84137	+0.91610177
<i>e</i>	0.0324964	<i>i</i>	2.73518	+0.39674509
<i>P</i>	3.38	<i>H</i>	15.6	<i>U</i>
				5

Residuals in seconds of arc

1994 07 11	809	1.1-	1.6+	2000 03 09	704	0.3+	0.1-	2000 03 26	699	0.0	0.3+
1994 07 11	809	0.1-	0.4+	2000 03 09	704	0.1+	0.1-	2000 03 26	699	0.5-	0.2-
1994 07 11	809	0.4-	0.0	2000 03 09	704	0.4+	0.3-	2000 04 07	699	0.3+	0.2-
1994 07 12	809	1.0-	0.0	2000 03 09	704	0.1+	0.1-	2000 04 07	704	0.4-	0.5-
1994 07 12	809	1.5+	0.5-	2000 03 09	704	0.2-	0.5+	2000 04 07	704	0.1-	0.5+
1994 07 12	809	1.2+	1.5-	2000 03 13	704	0.7-	0.6-	2000 04 07	699	0.4-	0.6-
2000 03 03	703	0.2+	0.2+	2000 03 13	704	0.1-	0.2+	2000 04 07	699	0.1+	0.3-
2000 03 03	703	0.0	0.3+	2000 03 13	704	1.6+	0.2-	2000 04 07	704	0.4+	1.4+
2000 03 03	703	0.7-	0.6+	2000 03 26	699	0.2-	0.4-	2000 04 07	699	0.2+	0.1+
2000 03 03	703	0.0	0.9-	2000 03 26	699	0.3-	0.2+				

2000 EO₉₂ = 1993 RY₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	187.62083	(2000.0)	Williams	
	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23637365	ω	154.81088	+0.98876979
<i>a</i>	2.5906178	Ω	198.39184	-0.13901375
<i>e</i>	0.2046544	<i>i</i>	14.36999	+0.05485866
<i>P</i>	4.17	<i>H</i>	13.4	<i>U</i>
				4

Residuals in seconds of arc

1993 09 12	675	1.0+	1.1+	2000 03 12	699	0.2-	0.4+	2000 04 07	704	1.6+	0.6-
1993 09 12	675	0.2+	0.9+	2000 03 12	699	0.0	0.0	2000 04 07	704	1.7+	0.2-
1993 09 14	675	1.4-	0.3-	2000 03 13	704	0.1+	0.4-	2000 04 07	704	0.8+	0.5-
1993 09 14	675	0.5+	1.7-	2000 03 13	704	0.3-	0.5+	2000 04 07	704	1.1+	1.2+
2000 03 09	704	0.7+	1.6-	2000 03 13	704	0.6-	0.4+	2000 04 07	704	0.8+	0.0
2000 03 09	704	1.2+	0.3+	2000 03 13	704	0.6+	0.4-	2000 04 08	704	1.0-	0.2-
2000 03 09	704	0.4+	0.3-	2000 03 26	699	0.2-	0.3-	2000 04 08	704	0.2+	1.1-
2000 03 09	704	0.1-	0.3-	2000 03 26	699	0.7-	0.0	2000 04 08	704	1.2-	0.1+

M.P.C. 40176

2000 03 12	699	0.3−	1.1+	2000 03 26	699	1.1−	0.2+	2000 04 08	704	1.3−	0.4+
2000 03 12	699	0.1−	0.0	2000 03 26	699	0.9−	0.5+	2000 04 08	704	1.1−	0.5+

2000 EP₉₂ = 1998 SL₁₀₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	63.17374		(2000.0)	P	Q
<i>n</i>	0.29244066	ω	131.28731	−0.29894165	−0.95252537
<i>a</i>	2.2479029	Ω	335.92182	−0.82780901	−0.22877070
<i>e</i>	0.0433760	<i>i</i>	8.13048	+0.47472743	−0.20089645
<i>P</i>	3.37	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 17	699	(1.1+ 2.2+)	1998 11 20	699	0.2+ 0.3+	2000 03 13	704	0.0 0.4−
1998 09 17	699	0.3+ 0.4+	1998 11 20	699	0.3+ 1.0−	2000 03 14	608	0.3− 0.0
1998 09 17	699	0.5+ 0.7+	2000 03 03	703	0.2− 0.7+	2000 03 14	608	0.2+ 0.1−
1998 09 26	704	1.2− 0.0	2000 03 03	703	0.2+ 0.6+	2000 03 14	608	0.4− 1.5+
1998 09 26	704	1.0− 0.3−	2000 03 03	703	0.2− 0.1−	2000 03 26	699	0.2− 0.0
1998 09 26	704	1.3− 1.2+	2000 03 03	703	0.5− 0.6+	2000 03 26	699	0.0 0.7−
1998 09 26	704	0.6+ 0.1+	2000 03 09	704	0.3+ 0.2−	2000 03 26	699	0.2+ 0.7−
1998 09 26	704	0.1+ 0.5+	2000 03 09	704	0.2+ 0.1−	2000 03 26	699	0.0 0.8−
1998 09 27	704	(3.0− 1.8+)	2000 03 09	704	0.7+ 0.2+	2000 04 07	704	0.0 0.6−
1998 09 27	704	(5.2− 2.5+)	2000 03 09	704	0.2− 0.1+	2000 04 07	704	0.1+ 0.1−
1998 09 27	704	(3.9− 2.7+)	2000 03 09	704	0.1− 0.7+	2000 04 07	704	0.3+ 0.4−
1998 10 12	699	0.5+ 0.1−	2000 03 13	704	0.1− 0.4−	2000 04 07	704	0.2− 1.5+
1998 10 12	699	0.1+ 0.9−	2000 03 13	704	0.5+ 0.1−	2000 04 07	704	0.4− 1.2+
1998 10 12	699	0.3+ 0.3−	2000 03 13	704	0.7+ 0.8−			
1998 11 20	699	0.3+ 0.3+	2000 03 13	704	0.0 0.3−			

2000 ER₉₂ = 1991 TQ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	290.54858		(2000.0)	P	Q
<i>n</i>	0.30279778	ω	298.00981	−0.03921416	+0.99783385
<i>a</i>	2.1963468	Ω	329.60286	−0.87620938	−0.05974803
<i>e</i>	0.1971734	<i>i</i>	5.99189	−0.48033256	+0.02752796
<i>P</i>	3.26	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 10 04	033	0.1+ 0.1+	2000 03 12	699	0.6− 1.2+	2000 04 08	704	0.2+ 0.7+
1991 10 05	033	0.5− 0.9−	2000 03 12	699	0.0 0.0	2000 04 08	704	0.6− 0.3+
1991 10 05	033	0.4+ 0.5+	2000 03 12	699	0.0 0.1+	2000 04 08	704	0.0 0.7+
2000 02 10	704	0.3+ 0.1+	2000 03 12	699	0.0 0.2−	2000 04 08	704	0.5− 0.3+
2000 02 10	704	0.6− 0.5+	2000 03 13	704	0.0 0.1+	2000 04 10	704	0.3− 0.3+
2000 02 10	704	0.3+ 0.7−	2000 03 13	704	0.1− 0.1−	2000 04 10	704	0.4− 0.6−
2000 03 03	703	0.2+ 0.2+	2000 03 13	704	1.0− 0.1+	2000 04 10	704	0.1− 0.6−
2000 03 03	703	0.1+ 0.3−	2000 03 13	704	0.5− 0.3−	2000 04 10	704	1.0− 0.3+
2000 03 03	703	0.2+ 0.4−	2000 03 13	704	0.5− 0.3−	2000 04 10	704	0.1+ 0.5+
2000 03 03	703	1.1+ 0.0	2000 04 07	704	(3.7+ 0.2+)	2000 04 10	704	0.0 0.1+
2000 03 09	704	0.4+ 0.2+	2000 04 07	704	(3.3+ 0.3+)	2000 04 10	704	0.1+ 0.2+
2000 03 09	704	0.2+ 0.2−	2000 04 07	704	1.0+ 1.4−	2000 04 10	704	0.2− 0.3+
2000 03 09	704	0.2+ 0.3+	2000 04 07	704	1.0+ 0.4+	2000 04 12	608	0.1+ 0.2−
2000 03 09	704	0.4+ 0.2+	2000 04 07	704	1.5+ 0.8−	2000 04 12	608	0.6− 0.2−
2000 03 09	704	0.3− 0.3−	2000 04 08	704	0.2− 0.1−	2000 04 12	608	0.0 0.6−

2000 EB₉₃ = 1989 CR₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	119.64293		(2000.0)	P	Q
<i>n</i>	0.19256661	ω	218.33485	+0.63188025	−0.77401170
<i>a</i>	2.9699472	Ω	192.64844	+0.74884599	+0.62312120
<i>e</i>	0.0824767	<i>i</i>	10.63562	+0.19989254	+0.11236484
<i>P</i>	5.12	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1989 02 05	809	0.2+ 0.7+	2000 03 13	704	1.0+ 1.5−	2000 04 05	704	0.1− 0.0
1989 02 05	809	0.3− 1.0+	2000 03 13	704	0.3− 0.4−	2000 04 05	704	0.1− 0.2+
1989 02 05	809	2.1− 0.8+	2000 03 13	704	0.2− 0.1−	2000 04 05	704	0.3− 0.3−

2000 APR. 18

1989 02 07	809	0.0 0.0	2000 03 13	704	1.1− 0.5−	2000 04 05	704	0.1+ 1.1−
1989 02 07	809	0.5+ 0.5−	2000 03 26	699	0.2+ 0.2−	2000 04 06	704	0.0 0.1−
1989 02 07	809	1.7+ 1.6−	2000 03 26	699	0.5+ 0.5+	2000 04 06	704	0.0 0.1+
1992 09 29	691	0.1− 0.7+	2000 03 26	699	0.1+ 0.7+	2000 04 06	704	0.2+ 0.6−
1992 09 29	691	0.2− 1.1+	2000 03 26	699	0.4+ 0.2+	2000 04 06	704	0.4+ 0.1−
1992 09 29	691	0.3− 0.6+	2000 04 04	704	(2.5+ 0.7−)	2000 04 07	704	1.1+ 1.2+
2000 03 09	704	0.4+ 0.7+	2000 04 04	704	0.8+ 0.1−	2000 04 07	704	0.2+ 0.4−
2000 03 09	704	0.7− 0.1−	2000 04 04	704	0.2− 1.3+	2000 04 07	704	0.6− 0.8+
2000 03 09	704	1.1− 0.8+	2000 04 05	704	0.1− 0.4+	2000 04 07	704	0.1− 0.9+

2000 EE₉₃ = 1982 BZ₁₃ = 1998 XT₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	352.59427		(2000.0)	P	Q
<i>n</i>	0.16951117	ω	51.50555	−0.97676535	+0.03206267
<i>a</i>	3.2334824	Ω	129.27707	−0.08039043	−0.97136296
<i>e</i>	0.0385645	<i>i</i>	15.88688	+0.19866261	−0.23542722
<i>P</i>	5.81	<i>H</i>	12.2	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1982 01 30	675	0.4− 0.5−	2000 02 04	704	0.1+ 0.1+	2000 03 28	704	0.2− 1.1+
1982 01 31	675	0.3+ 0.2−	2000 02 04	704	0.3+ 0.3+	2000 03 28	704	0.2+ 1.0+
1996 08 14	566	0.0 0.0	2000 02 04	704	0.1− 0.3−	2000 03 28	704	(2.7− 0.2+)
1996 08 14	566	0.2− 0.0	2000 02 04	704	0.0 0.9+	2000 04 04	704	0.3− 0.1+
1996 08 14	566	0.1+ 0.2+	2000 03 05	704	0.0 0.2+	2000 04 04	704	0.3− 0.0
1998 12 15	704	1.1+ 0.6−	2000 03 05	704	(4.6− 0.3+)	2000 04 04	704	0.1− 0.1−
1998 12 15	704	0.3− 0.6−	2000 03 05	704	(4.5− 0.4+)	2000 04 04	704	0.3+ 0.5−
1998 12 15	704	0.4+ 1.5+	2000 03 05	704	(4.5− 0.3+)	2000 04 04	704	1.2− 0.1+
1998 12 15	704	0.9+ 0.3−	2000 03 05	704	(5.1− 1.0+)	2000 04 07	608	0.5+ 0.7−
1998 12 15	704	0.9− 1.1+	2000 03 09	704	0.3+ 0.1+	2000 04 07	608	0.4+ 1.0−
1998 12 22	704	0.3− 1.1+	2000 03 09	704	0.6+ 0.3−	2000 04 07	608	0.0 0.7−
1998 12 22	704	1.2− 0.1−	2000 03 09	704	0.1+ 0.5−	2000 04 08	704	0.4+ 0.0
1998 12 22	704	0.7− 0.2+	2000 03 09	704	0.1− 0.3−	2000 04 08	704	0.5+ 0.3−
1998 12 22	704	0.0 1.1+	2000 03 09	704	0.2+ 0.6−	2000 04 08	704	0.0 0.4−
1999 01 18	704	0.3− 0.9−	2000 03 12	704	0.1+ 0.5+	2000 04 08	704	0.4− 0.1−
1999 01 18	704	0.1− 0.9+	2000 03 12	704	0.2+ 0.5+	2000 04 08	704	0.4− 0.2+
1999 01 18	704	0.2+ 1.4−	2000 03 12	704	0.5+ 1.5+	2000 04 11	608	0.1− 1.2−
1999 01 18	704	0.4− 0.6+	2000 03 12	704	0.5+ 1.0+	2000 04 11	608	0.2+ 1.0−
1999 01 18	704	1.4+ 1.8−	2000 03 12	704	0.2+ 1.4+	2000 04 11	608	0.1− 1.0−
2000 01 07	704	0.7− 0.9−	2000 03 26	699	0.1+ 0.2+	2000 04 13	704	0.0 0.1+
2000 01 07	704	0.8− 0.4−	2000 03 26	699	0.1− 0.2+	2000 04 13	704	0.1+ 0.6+
2000 01 07	704	0.2− 0.0	2000 03 26	699	0.1− 0.4+	2000 04 13	704	0.0 0.9−
2000 01 07	704	0.2− 1.1−	2000 03 26	699	0.1− 0.3+	2000 04 13	704	0.4+ 0.4−
2000 01 07	704	0.3− 0.1+	2000 03 28	704	0.1+ 0.8+	2000 04 13	704	0.5− 0.8+
2000 02 04	704	0.4+ 0.6−	2000 03 28	704	0.5− 0.9+			

2000 EK₉₃ = 1998 SV₁₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	21.40108		(2000.0)	P	Q
<i>n</i>	0.24476954	ω	300.36949	−0.77862726	−0.62094459
<i>a</i>	2.5310330	Ω	201.65938	+0.62613251	−0.75938929
<i>e</i>	0.1194811	<i>i</i>	14.17337	+0.04120288	−0.19430830
<i>P</i>	4.03	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 20	809	(0.7+ 2.5+)	2000 03 09	704	0.2− 0.4+	2000 03 13	704	0.5+ 0.1−
1998 09 20	809	0.8+ 1.0+	2000 03 09	704	0.2− 0.0	2000 04 07	704	1.1+ 1.0−
1998 09 20	809	0.7− 0.4+	2000 03 09	704	0.5− 0.2+	2000 04 07	704	0.6+ 1.5−
1998 09 21	809	0.3− 0.1+	2000 03 09	704	0.5− 0.2−	2000 04 07	704	0.4+ 0.2+
1998 09 21	809	0.1+ 0.1−	2000 03 09	704	0.1− 0.2−	2000 04 08	704	0.1+ 0.0
1998 09 21	809	0.0 1.3−	2000 03 13	704	0.1− 0.7+	2000 04 08	704	1.1− 0.1+
2000 03 06	608	0.2− 0.1−	2000 03 13	704	0.1+ 0.3+	2000 04 08	704	1.3− 1.2+
2000 03 06	608	0.2− 0.4−	2000 03 13	704	0.7+ 0.3+	2000 04 08	704	0.1+ 1.1+
2000 03 06	608	0.0 0.1−	2000 03 13	704	0.9+ 0.7−			

2000 APR. 18

M.P.C. 40177

2000 EL₉₃ = 1993 PA₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	305.50170		(2000.0)			P		Q			
<i>n</i>	0.24038483	ω	268.08699			-0.59666986		+0.78913105			
<i>a</i>	2.5617182	Ω	323.96028			-0.60180513		-0.56019858			
<i>e</i>	0.0578567	<i>i</i>	14.34803			-0.53086313		-0.25189230			
<i>P</i>	4.10	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	2				
Residuals in seconds of arc											
1993 08 15	010	0.3+	1.0-	1999 11 05	703	0.5-	0.8-	2000 03 08	608	0.2+	0.2-
1993 08 15	010	0.7-	0.6-	1999 11 05	703	1.6+	0.5+	2000 03 09	704	0.3-	0.6+
1993 08 16	010	(0.3+	2.1-)	1999 11 05	703	1.2+	0.4-	2000 03 09	704	0.7-	0.0
1993 08 16	010	0.2-	1.3-	1999 12 09	703	0.6-	0.2-	2000 03 09	704	0.8-	0.1+
1993 08 16	010	0.9+	1.7-	1999 12 09	703	1.4+	1.0+	2000 03 09	704	0.9-	0.0
1993 08 19	010	0.3+	1.1+	1999 12 09	703	1.2+	1.5+	2000 03 09	704	0.8-	0.5-
1993 08 19	010	0.0	0.9+	1999 12 09	703	1.6+	1.3+	2000 03 13	704	0.8-	0.1+
1993 08 20	010	0.5+	1.0+	2000 01 05	704	0.9+	0.4-	2000 03 13	704	0.5-	0.3+
1997 08 30	566	0.6-	1.2+	2000 01 05	704	0.8+	0.6+	2000 03 13	704	0.2-	0.9+
1997 08 30	566	0.6-	0.9+	2000 01 05	704	0.4+	0.5+	2000 03 13	704	0.1+	0.8+
1997 08 30	566	0.8-	1.0+	2000 01 05	704	0.6+	1.5+	2000 03 13	704	0.1-	0.9+
1998 11 14	704	0.1-	0.5+	2000 02 02	704	0.2+	0.1-	2000 03 31	704	0.1+	0.1+
1998 11 14	704	0.7+	0.6-	2000 02 02	704	0.3-	0.5+	2000 03 31	704	1.0+	0.0
1998 11 14	704	(0.6+	2.4-)	2000 02 02	704	0.0	0.3+	2000 03 31	704	0.5+	0.2+
1998 11 14	704	(0.2+	2.2-)	2000 02 02	704	0.5-	0.2-	2000 04 04	699	0.3-	0.1-
1998 11 16	704	0.6-	0.3-	2000 02 02	704	0.5-	0.6-	2000 04 04	699	0.4-	0.3-
1998 11 16	704	0.4+	0.2+	2000 02 10	704	0.2-	0.2+	2000 04 04	699	0.5-	0.2-
1998 11 16	704	0.0	1.0-	2000 02 10	704	0.9+	0.0	2000 04 04	699	0.5-	0.2-
1998 11 16	704	0.3+	0.3-	2000 02 10	704	0.0	0.2-	2000 04 07	704	0.8-	0.4-
1998 11 16	704	1.1+	1.0-	2000 02 10	704	0.4+	0.9-	2000 04 07	704	1.0-	0.1-
1999 01 08	704	0.2-	0.5-	2000 03 06	608	0.0	0.1-	2000 04 07	704	0.5-	0.2-
1999 01 08	704	0.4+	1.8+	2000 03 06	608	0.1-	0.2-	2000 04 07	704	(0.4+	2.4-)
1999 01 08	704	1.1-	0.5-	2000 03 06	608	0.4-	0.0	2000 04 07	704	1.7+	1.7-
1999 01 08	704	1.5-	0.5-	2000 03 08	608	0.6+	0.9-				
1999 11 05	703	1.4+	0.4+	2000 03 08	608	0.3+	0.8-				

2000 EQ₉₃ = 1995 DQ₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.66977		(2000.0)			P		Q			
<i>n</i>	0.22033036	ω	33.01377			+0.97472723		+0.17185996			
<i>a</i>	2.7148957	Ω	316.36174			−0.22180244		+0.82072998			
<i>e</i>	0.1858042	<i>i</i>	11.93605			+0.02665543		+0.54485453			
<i>P</i>	4.47	<i>H</i>	13.0		<i>G</i>	0.15		<i>U</i>	1		
Residuals in seconds of arc											
1995 02 22	691	0.1−	0.7−	1999 01 19	704	0.2+	0.6+	2000 03 09	704	0.2+	0.1−
1995 02 22	691	0.3−	0.3−	1999 01 19	704	0.3+	0.6+	2000 03 09	704	0.2−	0.6−
1995 03 02	691	0.3−	0.7−	1999 01 19	704	0.2+	0.8+	2000 03 09	704	0.5−	0.3−
1995 03 02	691	0.4−	0.6−	2000 01 10	704	1.2+	0.5+	2000 03 13	704	0.1+	0.3+
1995 03 02	691	0.3−	0.4−	2000 01 10	704	0.4+	0.2−	2000 03 13	704	0.2−	0.1−
1997 08 06	910	0.8+	0.0	2000 01 10	704	0.8+	0.0	2000 03 13	704	0.6+	0.1−
1997 08 06	910	0.8+	0.0	2000 01 10	704	1.6+	0.5+	2000 03 13	704	0.0	1.3+
1997 08 06	910	0.7+	0.0	2000 02 02	704	0.8+	0.5+	2000 04 07	704	0.7−	0.3+
1997 09 01	566	1.1−	0.4+	2000 02 02	704	0.3+	0.6+	2000 04 07	704	0.4+	0.1+
1997 09 01	566	0.9−	0.4+	2000 02 02	704	0.3+	0.4−	2000 04 07	704	0.8−	0.1+
1997 09 01	566	1.0−	0.4+	2000 02 02	704	0.3+	0.4−	2000 04 07	704	0.5−	1.3+
1998 12 17	704	0.9−	0.0	2000 02 02	704	0.6−	0.8+	2000 04 07	704	0.0	1.2+
1998 12 17	704	0.7+	0.5−	2000 03 06	608	0.3+	0.1−	2000 04 11	608	0.3−	0.7−
1998 12 17	704	0.3−	0.1−	2000 03 06	608	0.2+	0.3−	2000 04 11	608	0.5−	0.8−
1998 12 17	704	(5.6−	1.4−)	2000 03 06	608	0.7+	0.3−	2000 04 11	608	0.7−	0.8−
1999 01 19	704	0.1−	0.7−	2000 03 09	704	0.4−	0.5+				
1999 01 19	704	0.1+	1.1+	2000 03 09	704	0.3−	0.2+				

2000 ET₉₃ = 1998 XD₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	353.28793		(2000.0)		P			Q			
<i>n</i>	0.17420166	ω	229.57301		-0.98654511		+0.04921297				
<i>a</i>	3.1751764	Ω	312.62647		+0.03968915		-0.85299963				
<i>e</i>	0.1069139	<i>i</i>	12.23323		-0.15859862		-0.51958609				
<i>P</i>	5.66	<i>H</i>	12.7		<i>G</i>	0.15	<i>U</i>	3			
Residuals in seconds of arc											
1998 11 16	704	0.9+	0.2+	1999 01 16	704	1.5-	0.3-	2000 03 09	704	0.6+	0.8+
1998 11 16	704	0.4-	1.4-	1999 01 16	704	0.4-	1.2+	2000 03 09	704	0.3+	0.6-
1998 11 16	704	2.0-	0.4-	1999 01 16	704	(3.0-	1.0-)	2000 03 09	704	0.0	0.1+
1998 11 16	704	0.8+	0.0	2000 01 10	704	1.1+	0.3-	2000 03 09	704	0.2+	0.2-
1998 11 16	704	0.8-	1.3-	2000 01 10	704	0.5+	0.2+	2000 03 09	704	0.3+	0.3+
1998 12 14	704	0.5+	0.6+	2000 01 10	704	0.2+	0.4-	2000 03 13	704	0.8-	0.6-
1998 12 14	704	0.1+	0.4-	2000 01 10	704	0.6-	0.6-	2000 03 13	704	1.1-	0.2-
1998 12 14	704	0.1+	0.3+	2000 01 10	704	0.0	1.4-	2000 03 13	704	0.6-	0.5-
1998 12 14	704	1.0+	1.1-	2000 02 10	704	0.1+	1.5+	2000 03 13	704	0.7-	0.9-
1998 12 14	704	0.8-	1.3+	2000 02 10	704	0.1-	0.2-	2000 03 13	704	0.1-	0.9-
1998 12 17	704	0.2+	0.4+	2000 02 10	704	1.0+	0.5+	2000 04 07	704	0.0	0.0
1998 12 17	704	0.5+	0.4-	2000 02 10	704	1.1-	1.1+	2000 04 07	704	0.1+	0.4-
1998 12 17	704	0.2+	0.2+	2000 02 10	704	0.9+	0.3+	2000 04 07	704	0.3+	0.1+
1998 12 17	704	0.0	0.9+	2000 02 10	704	0.5-	0.3+	2000 04 07	704	0.2+	0.4+
1999 01 16	704	(2.3-	0.6-)	2000 02 10	704	0.3+	0.8+	2000 04 07	704	0.2-	0.1+
1999 01 16	704	1.1+	0.2-	2000 02 10	704	0.1-	0.5+				

2000 EY₉₃ = 1996 HK₂₃ = 1997 MU₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	26.54105		(2000.0)	P		Q					
<i>n</i>	0.22571087	ω	292.71734	-0.73638415	-0.67180923						
<i>a</i>	2.6715773	Ω	205.30144	+0.66888469	-0.70513058						
<i>e</i>	0.1353398	<i>i</i>	10.79781	+0.10164471	-0.22685507						
<i>P</i>	4.37	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	1				
Residuals in seconds of arc											
1996 04 14	691	(0.2-	5.1-)	1998 11 11	704	1.0-	0.6+	2000 03 13	704	0.4+	0.1-
1996 04 14	691	1.6-	0.0	1998 11 11	704	1.4+	1.7+	2000 03 13	704	0.6+	0.3+
1996 04 14	691	1.6-	0.1+	1998 11 11	704	0.2-	0.3-	2000 03 13	704	0.7-	0.1+
1996 04 20	809	(0.8+	2.3+)	1998 11 11	704	0.6-	0.2-	2000 03 13	704	0.1-	0.9-
1996 04 20	809	(0.0	2.2+)	1998 11 11	704	1.2+	1.1+	2000 03 13	704	0.2+	0.1+
1996 04 20	809	(0.3+	2.5+)	2000 03 09	704	0.0	0.6+	2000 03 13	704	0.0	0.6+
1996 04 21	809	1.7+	0.9+	2000 03 09	704	0.5-	0.5-	2000 04 07	704	0.6-	1.4-
1996 04 21	809	1.6+	0.7+	2000 03 09	704	0.2-	0.3+	2000 04 07	704	0.2+	0.3-
1996 04 21	809	(0.7+	2.2+)	2000 03 09	704	0.3-	0.3-	2000 04 07	704	0.6+	0.8-
1997 06 27	691	0.3-	0.6+	2000 03 09	704	0.5-	0.8-	2000 04 07	704	0.2+	0.0
1997 06 27	691	0.4-	0.1+	2000 03 12	704	0.2+	0.2+	2000 04 07	704	1.0+	0.2+
1997 06 27	691	0.3-	0.1-	2000 03 12	704	1.7+	0.3+	2000 04 08	704	0.7+	0.2+
1997 07 09	691	0.1+	0.3+	2000 03 12	704	0.1-	1.4+	2000 04 08	704	0.3-	0.4+
1997 07 09	691	0.2+	0.2+	2000 03 12	704	0.5-	0.5+	2000 04 08	704	1.0-	0.8-
1997 07 09	691	0.3+	0.5+	2000 03 12	704	0.6+	0.5+	2000 04 08	704	0.9-	1.5+
1998 10 29	120	1.0-	0.3-	2000 03 13	704	0.4+	0.1+	2000 04 08	704	0.5-	0.6+
1998 10 29	120	0.3-	0.5+	2000 03 13	704	0.1-	0.4-				

2000 EZ₉₃ = 1998 VR₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	27.60912		(2000.0)			P		Q			
n	0.22369077	ω	281.40826			-0.72748123		-0.67516814			
a	2.6876374	Ω	216.31982			+0.68197813		-0.69198334			
e	0.1313945	i	11.90104			+0.07534516		-0.25555242			
P	4.41	H	14.3		G	0.15		U	4		
Residuals in seconds of arc											
1998 11 10	704	0.5-	0.3+	2000 01 11	704	0.4+	0.4-	2000 03 12	699	0.9-	0.4+
1998 11 10	704	0.7+	0.8-	2000 01 11	704	1.2+	1.2+	2000 03 13	704	0.8-	0.5-
1998 11 10	704	0.1-	0.8+	2000 03 09	704	1.4-	0.6-	2000 03 13	704	0.1+	0.5-

M.P.C. 40178

2000 APR. 18

1998 11 10	704	0.8−	0.3−	2000 03 09	704	0.6+	0.1+	2000 03 13	704	0.2−	1.0−
1998 11 10	704	(2.6−	0.9−)	2000 03 09	704	0.4+	0.2+	2000 04 07	704	1.0−	1.1+
1998 11 11	704	(0.6−	2.4+)	2000 03 09	704	0.5+	0.0	2000 04 07	704	0.3+	1.4+
1998 11 11	704	1.3+	0.0	2000 03 09	704	0.8+	0.9+	2000 04 07	704	0.9+	0.7+
1998 11 11	704	0.3+	0.2+	2000 03 12	699	0.7−	0.9−	2000 04 07	704	1.7+	0.9−
1998 11 11	704	1.0−	0.0	2000 03 12	699	0.4−	0.2−				
2000 01 11	704	0.7−	0.4−	2000 03 12	699	0.5−	0.5−				

2000 EL₉₄ = 1998 XU₄₉

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	261.52557		(2000.0)	P	Q		
<i>n</i>	0.24097827	ω	316.06024	+0.39155115	+0.91580980		
<i>a</i>	2.5575107	Ω	336.55265	−0.77007282	+0.27299881		
<i>e</i>	0.1622920	<i>i</i>	12.97370	−0.50366213	+0.29455741		
<i>P</i>	4.09	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.5+	0.1+	1999 01 19	704	0.0	0.6−	2000 03 13	704	0.4−	0.8−
1998 12 14	704	0.1−	0.3−	2000 01 05	704	0.3+	0.4+	2000 03 13	704	0.3+	0.6+
1998 12 14	704	0.3+	0.9+	2000 01 05	704	0.4−	0.2+	2000 03 13	704	0.1+	0.1−
1998 12 14	704	0.9−	1.2−	2000 01 05	704	0.1+	0.1−	2000 03 13	704	0.6+	0.6−
1998 12 17	704	0.5+	0.1+	2000 03 09	704	0.3+	0.1−	2000 03 15	461	0.2+	0.1+
1998 12 17	704	0.9+	0.0	2000 03 09	704	0.2−	0.0	2000 03 15	461	0.4+	0.2+
1998 12 17	704	0.5−	1.4+	2000 03 09	704	0.3−	0.5+	2000 03 15	461	0.0	0.3+
1998 12 17	704	0.1−	0.2+	2000 03 09	704	0.4+	1.1+	2000 04 07	704	0.6+	0.4+
1998 12 17	704	0.3−	0.5+	2000 03 12	699	0.0	0.1+	2000 04 07	704	0.4+	0.1+
1999 01 19	704	1.1+	1.1−	2000 03 12	699	0.4−	0.4−	2000 04 07	704	0.7+	0.7+
1999 01 19	704	1.2−	0.1−	2000 03 12	699	0.5−	0.5−	2000 04 07	704	(3.4−	1.8−)
1999 01 19	704	(1.1+	2.2+)	2000 03 12	699	0.7−	0.4−	2000 04 07	704	1.5−	1.3−

2000 EP₉₄ = 1998 XJ₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	255.00647		(2000.0)	P	Q		
<i>n</i>	0.28710347	ω	62.68417	+0.48293916	+0.87309802		
<i>a</i>	2.2756760	Ω	236.34981	−0.82910900	+0.43137353		
<i>e</i>	0.1701997	<i>i</i>	4.60654	−0.28168783	+0.22719315		
<i>P</i>	3.43	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 12 07	691	0.3−	0.9+	2000 03 09	704	0.9−	0.3−	2000 04 07	704	1.0+	0.1+
1991 12 07	691	0.2+	0.9+	2000 03 13	704	0.0	0.2−	2000 04 07	704	0.3+	1.7+
1991 12 07	691	0.2−	0.8+	2000 03 13	704	0.2+	0.5−	2000 04 07	699	0.2−	0.1−
1998 12 15	704	1.0+	0.2−	2000 03 13	704	0.3+	0.2−	2000 04 07	704	0.4+	1.9+
1998 12 15	704	(0.6+	2.5+)	2000 03 13	704	0.0	1.0−	2000 04 07	699	0.1−	0.3−
1998 12 15	704	0.2−	0.8+	2000 03 13	704	0.0	0.4−	2000 04 07	704	1.2+	1.7+
1998 12 16	704	0.1−	0.8+	2000 03 26	699	1.0−	0.0	2000 04 07	699	0.1−	0.1+
1998 12 16	704	1.2+	1.1−	2000 03 26	699	0.5−	0.7−	2000 04 08	704	0.1+	0.3+
1998 12 16	704	0.1−	0.3−	2000 03 26	699	0.7−	0.4−	2000 04 08	704	0.1−	0.3+
1998 12 16	704	1.8−	1.9−	2000 03 26	699	0.6−	0.3−	2000 04 08	704	0.1+	0.8+
2000 03 09	704	0.0	0.6+	2000 04 07	704	0.9+	0.1−	2000 04 08	704	0.1+	0.7−
2000 03 09	704	0.2−	0.3−	2000 04 07	699	0.4+	0.4−	2000 04 08	704	0.4−	0.8−

2000 EY₉₄ = 1996 AP₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	318.51437		(2000.0)	P	Q		
<i>n</i>	0.27257107	ω	323.97387	−0.60548080	+0.79233205		
<i>a</i>	2.3558603	Ω	268.64377	−0.71155151	−0.58106974		
<i>e</i>	0.1858362	<i>i</i>	4.29396	−0.35649328	−0.18592438		
<i>P</i>	3.62	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 12 30	691	0.0	0.1−	2000 03 09	704	0.1−	0.1−	2000 03 13	704	0.5+	1.0−
1995 12 30	691	0.3−	0.1+	2000 03 09	704	0.4+	0.2+	2000 03 13	704	0.1+	0.8−
1995 12 30	691	0.0	0.1+	2000 03 09	704	0.2−	0.1−	2000 04 07	704	0.5−	1.1−

1996 01 13	691	0.1−	0.0	2000 03 12	699	0.3−	1.6+	2000 04 07	704	0.5−	0.6−
1996 01 13	691	0.2−	0.1−	2000 03 12	699	0.9−	0.4+	2000 04 07	704	0.6+	0.8+
1996 01 13	691	0.1−	0.1−	2000 03 12	699	1.0−	0.4−	2000 04 07	704	0.3+	0.5+
1996 01 20	691	0.4+	0.1+	2000 03 12	699	0.1−	0.2+	2000 04 07	704	0.0	0.5+
1996 01 20	691	0.1+	0.1+	2000 03 13	704	1.3+	0.7−				
1996 01 20	691	0.2+	0.0	2000 03 13	704	0.5+	0.4+				

2000 EZ₉₄ = 1990 EU₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	323.03933		(2000.0)	P	Q		
<i>n</i>	0.29779856	ω	322.28913	−0.74412866	+0.66373101		
<i>a</i>	2.2208590	Ω	259.47313	−0.59264623	−0.70820587		
<i>e</i>	0.1287787	<i>i</i>	4.41715	−0.30829042	−0.24063583		
<i>P</i>	3.31	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1990 02 24	809	0.3+	0.5+	2000 02 02	704	0.4−	0.2+	2000 03 13	704	0.0	0.5+
1990 02 24	809	0.3+	0.1+	2000 03 06	608	0.9+	0.7−	2000 03 13	704	0.0	0.7+
1990 02 24	809	0.3−	0.2+	2000 03 06	608	0.8+	0.4−	2000 03 13	704	0.1−	0.3−
1990 03 02	809	(3.7+	1.1−)	2000 03 06	608	0.4+	0.5−	2000 03 13	704	0.3+	0.9+
1990 03 02	809	(2.5+	0.4−)	2000 03 09	704	0.0	0.5+	2000 03 13	704	0.3+	1.0+
1990 03 02	809	1.9+	0.6−	2000 03 09	704	0.3−	0.6−	2000 04 07	704	0.6+	0.4+
1990 03 04	809	0.4−	0.7−	2000 03 09	704	0.3−	0.0	2000 04 07	704	1.2+	0.5+
1990 03 04	809	0.9−	0.4−	2000 03 12	699	0.3−	0.5+	2000 04 07	704	1.0−	1.1−
1990 03 04	809	1.3−	0.4−	2000 03 12	699	0.0	0.1−	2000 04 07	704	1.1−	0.5−
2000 02 02	704	(0.2−	2.3+)	2000 03 12	699	0.3−	0.3+	2000 04 07	704	0.6−	0.2−
2000 02 02	704	0.3+	0.5+	2000 03 12	699	0.0	0.0				

2000 EG₉₅ = 1992 RY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	315.91937		(2000.0)	P	Q		
<i>n</i>	0.22118660	ω	264.34291	−0.40898563	+0.90905383		
<i>a</i>	2.7078847	Ω	340.89879	−0.71076399	−0.37211038		
<i>e</i>	0.2250098	<i>i</i>	14.09615	−0.57231574	−0.18749668		
<i>P</i>	4.46	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 09 02	809	(2.8+	0.2+)	2000 03 09	704	0.0	0.4−	2000 03 13	704	0.6+	0.6+
1992 09 02	809	0.4+	0.2+	2000 03 12	699	0.7−	0.6+	2000 04 07	704	0.4−	0.1−
1992 09 02	809	0.6+	0.5−	2000 03 12	699	0.4−	0.4+	2000 04 07	704	0.2−	0.0
1992 09 03	809	0.8−	0.0	2000 03 12	699	0.4−	0.3+	2000 04 07	704	0.2−	0.3−
2000 02 02	704	0.9−	0.6−	2000 03 12	699	0.6−	0.2−	2000 04 07	704	0.2−	0.1+
2000 02 02	704	0.4−	0.1+	2000 03 13	704	0.1+	1.2−	2000 04 07	704	0.5−	0.1−
2000 02 02	704	0.4+	0.1−	2000 03 13	704	0.3+	0.0	2000 04 10	608	0.6+	0.2+
2000 03 09	704	0.4+	0.2+	2000 03 13	704	0.4+	0.4+	2000 04 10	608	0.5+	0.3−
2000 03 09	704	0.4+	0.5−	2000 03 13	704	0.6+	0.2+	2000 04 10	608	0.3+	0.2+

2000 EO₉₅ = 1998 UG₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	42.60836		(2000.0)	P	Q		
<i>n</i>	0.24161009	ω	234.23242	−0.53596279	−0.84057908		
<i>a</i>	2.5530501	Ω	248.36010	+0.79929332	−0.47527056		
<i>e</i>	0.1582441	<i>i</i>	4.84785	+0.27179784	−0.25989364		
<i>P</i>	4.08	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	1.9+	1.2+	1998 11 11	704	0.6−	0.1−	2000 03 12	704	1.5−	0.4+
1998 10 28	704	0.8+	1.0−	1998 11 11	704	(4.4−	4.0+)	2000 03 12	704	1.3−	0.3−
1998 10 28	704	0.2−	1.2+	2000 03 10	704	1.6+	0.7−	2000 03 12	704	1.3−	0.1−
1998 10 28	704	0.5−	0.8−	2000 03 10	704	1.2+	0.4−	2000 03 12	704	1.8−	0.2+
1998 10 29	704	0.5+	0.1−	2000 03 10	704	1.0+	0.8−	2000 03 12	704	1.5−	0.0
1998 10 29	704	1.9−	0.4−	2000 03 10	704	1.8+	1.1−	2000 04 07	704	0.7−	0.4−
1998 10 29	704	0.1+	0.8−	2000 03 10	704	(2.9+	0.0)	2000 04 07	704	0.7+	0.8−
1998 10 29	704	0.1+	1.2+	2000 03 12	699	0.6+	0.4+	2000 04 07	704	0.3−	0.1−
1998 10 29	704	0.2−	1.4−	2000 03 12	699	0.4+	0.4+	2000 04 08	704	0.2−	0.5+

2000 APR. 18

M.P.C. 40179

1998 11 11	704	0.1+	0.1+	2000 03 12	699	0.1+	0.4+	2000 04 08	704	0.4+	0.5+
1998 11 11	704	0.0	1.2+	2000 03 12	699	0.4+	0.8+	2000 04 08	704	0.4+	1.0+

2000 EJ₉₆ = 1998 XC₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	222.09555		(2000.0)		P		Q	
<i>n</i>	0.25108727	ω	167.81762		+0.81764195		+0.57413938	
<i>a</i>	2.4883965	Ω	156.98267		−0.53696791		+0.78726347	
<i>e</i>	0.1104544	<i>i</i>	6.27347		−0.20767066		+0.22490045	
<i>P</i>	3.93	<i>H</i>	14.3		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.4+	0.7+	2000 03 12	704	0.3+	0.3-	2000 04 07	699	0.2+	0.1-
1998 12 15	704	0.5+	0.4+	2000 03 12	704	0.5-	0.2+	2000 04 07	699	0.2+	0.5+
1998 12 15	704	0.4+	0.0	2000 03 12	704	0.4-	0.8-	2000 04 07	699	0.5-	0.4+
1998 12 15	704	0.3+	0.3-	2000 03 12	704	0.2-	0.3-	2000 04 08	704	0.8+	0.2+
1998 12 22	704	0.3+	0.0	2000 03 26	699	0.3-	0.3-	2000 04 08	704	(0.6-	2.5+)
1998 12 22	704	0.4+	1.2-	2000 03 26	699	0.4-	0.2+	2000 04 08	704	0.5-	0.2+
1998 12 22	704	1.3-	0.9+	2000 03 26	699	0.6-	0.8-	2000 04 08	704	0.0	0.8+
1998 12 22	704	0.8-	0.4-	2000 03 26	699	0.6-	0.1+	2000 04 08	704	0.1-	0.7+
2000 03 11	704	0.1+	0.1+	2000 03 29	704	0.3-	0.3-	2000 04 10	704	0.3+	0.3-
2000 03 11	704	0.3+	0.6+	2000 03 29	704	0.2-	0.5+	2000 04 10	704	0.8-	0.3+
2000 03 11	704	0.1+	0.0	2000 03 29	704	0.0	0.7-	2000 04 10	704	1.4+	0.2+
2000 03 11	704	0.6+	0.3+	2000 03 29	704	0.1-	0.4+	2000 04 10	704	0.3+	1.4-
2000 03 11	704	0.4+	0.1+	2000 04 07	699	0.8+	0.2+	2000 04 10	704	0.3-	0.8-

2000 EK₉₆ = 1989 GV₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	315.64332		(2000.0)		P		Q	
n	0.17905330	ω	240.61340		-0.24134188		+0.96131720	
a	3.1175577	Ω	17.04993		-0.65654400		-0.06100554	
e	0.1804677	i	26.92123		-0.71463562		-0.26860301	
P	5.50	H	14.1		G	0.15	U	6

Residuals in seconds of arc

1989 04 03	809	0.2+	1.8-	2000 03 11	704	0.4+	0.2+	2000 04 07	704	0.1-	0.3+
1989 04 03	809	0.4-	1.6-	2000 03 11	704	0.1+	0.2-	2000 04 07	704	0.7+	0.3+
1989 04 03	809	0.9-	1.7-	2000 03 11	704	0.1-	0.5+	2000 04 07	704	1.3-	0.2+
1989 04 10	809	0.7-	0.4+	2000 03 12	704	0.6+	0.2-	2000 04 08	704	0.1+	0.8+
1989 04 10	809	1.0-	0.5+	2000 03 12	704	0.6-	0.5-	2000 04 08	704	1.8+	1.4+
1989 04 10	809	1.3-	0.3+	2000 03 12	704	0.3+	0.8+	2000 04 08	704	0.3+	0.6+
2000 03 11	704	0.3-	0.7-	2000 03 12	704	1.4+	0.1-	2000 04 08	704	0.5+	0.3-
2000 03 11	704	0.2-	0.1-	2000 03 12	704	0.1+	0.7+	2000 04 08	704	0.8+	0.1+

2000 EP₉₆ = 1992 DG₂ = 1998 XP₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	241.56550		(2000.0)		P		Q
n	0.25521375	ω	244.21858		+0.64361725		+0.75860804
a	2.4615009	Ω	66.22402		-0.65654050		+0.61530677
e	0.1296724	i	6.35816		-0.39333371		+0.21426949
P	3.86	H	13.8	G	0.15	U	2

Residuals in seconds of arc

1992 02 29	033	0.8-	0.3-	1999 01 16	704	1.0+	0.6-	2000 03 13	704	1.0-	0.8-
1992 02 29	033	0.5+	0.7-	1999 01 16	704	(4.5-	3.1-)	2000 03 13	704	0.3-	0.7-
1992 03 01	033	1.2+	0.4-	2000 01 08	704	0.3+	0.2+	2000 03 13	704	0.0	0.9-
1996 04 18	327	0.8-	0.2+	2000 01 08	704	0.2+	1.4-	2000 03 13	704	0.6-	1.1-
1996 04 18	327	0.4-	0.2-	2000 01 08	704	0.3+	1.1-	2000 03 29	704	0.5+	0.3+
1996 04 18	327	1.1-	0.0	2000 03 11	699	0.6-	1.1+	2000 03 29	704	0.5+	0.7+
1996 04 18	327	0.9-	0.5+	2000 03 11	699	0.6-	0.8+	2000 03 29	704	0.6+	0.1+
1998 12 14	704	0.5-	0.7-	2000 03 11	699	1.2-	0.3-	2000 03 29	704	0.4+	0.3+
1998 12 14	704	(3.4-	0.4-)	2000 03 11	699	0.5-	1.3+	2000 03 29	704	0.5+	0.5+
1998 12 14	704	(2.3-	0.3+)	2000 03 12	703	0.1-	0.2+	2000 04 03	688	0.6+	0.4+
1998 12 17	704	0.2-	0.8+	2000 03 12	703	0.3-	0.3-	2000 04 03	688	0.5+	0.4+
1998 12 17	704	1.3-	0.2-	2000 03 12	703	0.4+	0.4-	2000 04 05	704	0.5+	0.5+

1998 12 17	704	(1.2+	2.9+)	2000 03 12	703	0.3+	0.0	2000 04 05	704	0.4+	0.2+
1998 12 17	704	0.6+	1.1+	2000 03 12	704	0.2-	0.0	2000 04 05	704	1.2+	0.9+
1999 01 16	704	0.1-	0.8+	2000 03 12	704	0.0	0.1-	2000 04 05	704	1.1+	0.5+
1999 01 16	704	1.1+	0.3+	2000 03 12	704	0.3-	0.5-				
1999 01 16	704	0.7-	0.1-	2000 03 12	704	0.6-	0.8-				

2000 ET₉₆ = 1988 DW₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	25.79144		(2000.0)		P		Q
n	0.17063093	ω	303.26370		-0.90102077		-0.41655078
a	3.2193205	Ω	212.59443		+0.43344943		-0.87541355
e	0.1466083	i	12.98322		-0.01682764		-0.24522758
P	5.78	H	13.0	G	0.15	U	3

Residuals in seconds of arc

1988 02 23	413	0.2+	0.2+	2000 03 14	704	1.1-	0.8-	2000 04 08	704	0.1+	0.1+
1988 02 25	413	0.8-	0.1-	2000 03 30	704	0.2+	0.7-	2000 04 08	704	0.9+	0.3-
1988 02 25	413	0.6+	0.0	2000 03 30	704	0.2+	0.3-	2000 04 08	704	0.1+	0.6+
1988 02 25	413	0.6+	0.0	2000 03 30	704	1.3+	0.4+	2000 04 08	704	0.2+	0.3+
1997 09 23	691	0.1-	0.3+	2000 03 30	704	0.2+	0.1-	2000 04 08	704	0.3+	0.5+
1997 09 23	691	0.2-	0.3+	2000 03 30	704	0.2+	0.1-	2000 04 08	704	0.3+	0.5+
1997 09 23	691	0.1+	0.4+	2000 03 30	704	0.7+	0.8+	2000 04 08	704	0.3-	0.3+
2000 03 10	704	0.6-	1.0-	2000 04 07	704	0.1-	0.2-	2000 04 08	704	0.5+	0.2+
2000 03 10	704	0.6-	1.6+	2000 04 07	704	0.5+	0.0	2000 04 08	704	0.2-	0.5-
2000 03 10	704	0.6-	0.8+	2000 04 07	704	0.6+	0.5-	2000 04 08	704	0.0	0.5+
2000 03 10	704	0.5+	0.7+	2000 04 07	704	0.3+	0.0	2000 04 08	704	0.6-	0.0
2000 03 10	704	0.3-	0.0	2000 04 07	704	0.4-	1.3-	2000 04 10	704	0.9-	0.1+
2000 03 14	704	0.1+	0.4-	2000 04 08	704	0.7+	0.2+	2000 04 10	704	1.2-	0.3+
2000 03 14	704	0.7-	0.6-	2000 04 08	704	0.2+	0.7+	2000 04 10	704	0.5-	0.2+
2000 03 14	704	0.3-	0.3-	2000 04 08	704	0.2+	0.8-	2000 04 10	704	0.1+	0.1-
2000 03 14	704	0.2-	0.2-	2000 04 08	704	0.3+	0.3+	2000 04 10	704	0.2+	0.1+

2000 EU₉₆ = 1996 TG₅₃ = 1998 YG₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	327.84012		(2000.0)		P		Q
n	0.17678828	ω	234.98117		-0.58997330		+0.80739502
a	3.1441294	Ω	358.79988		-0.59670642		-0.44157486
e	0.1408106	i	18.63580		-0.54394205		-0.39131181
P	5.58	H	11.8	G	0.15	U	2

Residuals in seconds of arc

1996 10 05	809	1.5+	1.6-	1999 02 11	704	1.1-	1.5-	2000 03 10	704	0.0	0.3+
1996 10 05	809	0.5+	1.2-	1999 02 11	704	0.6-	1.2-	2000 03 14	704	0.1+	0.3+
1996 10 05	809	0.4-	0.7-	1999 04 06	704	1.6-	0.1+	2000 03 14	704	0.1+	0.1-
1996 10 06	809	1.3+	0.7-	1999 04 06	704	(1.5-	2.1-)	2000 03 14	704	0.1+	0.3+
1996 10 06	809	1.0+	0.6-	1999 04 06	704	1.3-	1.3-	2000 03 14	704	0.0	0.4+
1996 10 06	809	0.6+	0.0	1999 04 06	704	0.7-	0.1+	2000 03 14	704	0.0	0.4+
1998 01 28	566	0.3-	0.4+	1999 04 06	704	(5.6-	0.8-)	2000 03 30	704	1.1-	0.8-
1998 01 28	566	0.3-	0.1+	1999 11 08	703	0.1-	0.1-	2000 03 30	704	1.9-	1.9-
1998 01 28	566	0.8-	0.2+	1999 11 08	703	0.9+	0.7+	2000 03 30	704	(1.5-	2.1-)
1998 12 24	699	0.6+	0.2-	1999 11 08	703	0.0	0.4-	2000 04 06	704	0.7-	0.1-
1998 12 24	699	0.3+	0.3+	1999 11 08	703	0.9+	0.7+	2000 04 06	704	0.6-	0.2-
1998 12 24	699	0.3+	0.3+	2000 02 02	704	0.0	0.0	2000 04 06	704	0.0	0.8-
1998 12 30	699	0.3+	0.5-	2000 02 02	704	0.1+	0.3-	2000 04 06	704	0.0	0.6+
1998 12 30	699	0.2+	0.6-	2000 02 02	704	0.6+	0.2-	2000 04 12	608	0.5-	1.0-
1998 12 30	699	0.1+	0.0	2000 03 10	704	0.5+	0.1+	2000 04 12	608	0.4-	1.1-
1999 02 11	704	1.1+	0.4+	2000 03 10	704	0.4+	0.6+	2000 04 12	608	0.7-	0.8-
1999 02 11	704	1.0+	0.1+	2000 03 10	704	0.3+	0.3+				
1999 02 11	704	0.5-	0.9-	2000 03 10	704	0.5+	0.5+				

2000 EW₉₆ = 1999 CV₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	272.86521		(2000.0)	P		Q	
<i>n</i>	0.23331629	ω	303.48783	+0.44513329	+0.89500901		
<i>a</i>	2.6132002	Ω	352.76908	−0.72777398	+0.34301341		
<i>e</i>	0.1506500	<i>i</i>	13.11111	−0.52172923	+0.28513271		
<i>P</i>	4.22	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 29	566	0.0	0.1−	1999 02 13	704	(1.6+	3.9−)	2000 03 30	704	1.0−	0.3−
1997 10 29	566	0.0	0.2+	1999 02 13	704	0.9+	0.7−	2000 03 30	704	0.4−	0.3+
1997 10 29	566	0.1+	0.3−	2000 02 02	704	0.5+	0.6+	2000 04 06	704	0.3−	0.4−
1999 01 15	699	0.7+	0.5+	2000 02 02	704	0.1+	0.3−	2000 04 06	704	0.3+	0.5+
1999 01 15	699	0.4−	1.1−	2000 02 02	704	0.3+	0.5+	2000 04 06	704	0.7+	1.4−
1999 01 15	699	0.9+	0.5+	2000 03 10	704	0.3+	0.7−	2000 04 06	704	0.4+	0.2+
1999 01 19	704	1.4−	0.1+	2000 03 10	704	0.2−	0.4+	2000 04 06	704	0.1+	0.1+
1999 01 19	704	0.1−	0.5−	2000 03 10	704	0.8−	0.1+	2000 04 10	704	0.2−	0.1+
1999 01 19	704	1.1+	1.2−	2000 03 10	704	0.3−	0.4+	2000 04 10	704	0.5+	0.1−
1999 01 19	704	(2.4+	2.5+)	2000 03 10	704	0.0	0.5+	2000 04 10	704	0.4+	0.5+
1999 02 10	704	1.1−	0.8+	2000 03 14	704	0.2+	0.1−	2000 04 10	704	0.8+	0.9+
1999 02 10	704	0.6−	1.1+	2000 03 14	704	0.4−	0.4−	2000 04 10	704	0.7+	0.4+
1999 02 10	704	0.2−	1.1+	2000 03 14	704	0.1+	0.1−	2000 04 13	608	0.2−	0.7−
1999 02 10	704	0.6−	0.9+	2000 03 14	704	0.3−	0.1−	2000 04 13	608	0.2+	0.8−
1999 02 10	704	0.4+	0.3+	2000 03 14	704	0.2+	0.4+	2000 04 13	608	0.1+	0.7−
1999 02 13	704	0.6+	1.8−	2000 03 30	704	1.1−	0.9+				
1999 02 13	704	(1.5+	2.3−)	2000 03 30	704	1.0−	0.6−				

2000 EY₉₆ = 1997 TY₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	340.18534		(2000.0)	P		Q	
<i>n</i>	0.23326621	ω	216.04994	−0.80593487	+0.59200335		
<i>a</i>	2.6135741	Ω	0.25605	−0.47616101	−0.64721258		
<i>e</i>	0.0770451	<i>i</i>	13.09515	−0.35176652	−0.48025816		
<i>P</i>	4.23	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 01	809	0.8−	0.5+	1999 01 16	704	(0.5−	2.7−)	2000 03 14	704	0.3−	0.3+
1997 10 01	809	0.4+	0.1+	1999 01 16	704	(2.4−	0.3−)	2000 03 14	704	0.8−	0.0
1997 10 05	809	0.5−	0.5+	2000 02 10	704	0.3−	0.0	2000 03 14	704	0.8−	0.4+
1997 10 05	809	0.2+	0.1−	2000 02 10	704	0.4+	0.2+	2000 03 30	704	0.1+	0.1+
1998 12 14	704	0.8−	0.2+	2000 02 10	704	0.7+	0.4−	2000 03 30	704	0.2−	0.1−
1998 12 14	704	0.6−	1.3−	2000 03 10	704	0.5+	0.1−	2000 03 30	704	0.7−	0.3−
1998 12 14	704	0.0	0.4−	2000 03 10	704	0.7+	0.1+	2000 03 30	704	0.5−	0.2−
1998 12 14	704	0.8+	0.5+	2000 03 10	704	0.5+	0.5+	2000 04 06	704	0.2−	0.2−
1998 12 14	704	0.8+	1.5+	2000 03 10	704	0.7+	0.0	2000 04 06	704	0.1+	0.2−
1999 01 16	704	0.3+	1.4−	2000 03 10	704	0.5+	0.0	2000 04 06	704	0.4+	0.1+
1999 01 16	704	1.6−	0.0	2000 03 14	704	0.3−	0.5+	2000 04 06	704	0.0	0.2+
1999 01 16	704	1.1+	1.2+	2000 03 14	704	0.2−	0.2+	2000 04 06	704	0.6+	0.2−

2000 EZ₉₆ = 1999 CD₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	312.36130		(2000.0)	P		Q	
<i>n</i>	0.17492385	ω	247.16974	−0.24587003	+0.96858886		
<i>a</i>	3.1664310	Ω	8.84565	−0.77679600	−0.17394152		
<i>e</i>	0.1186338	<i>i</i>	13.99805	−0.57977229	−0.17770752		
<i>P</i>	5.63	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 19	704	0.0	0.4−	2000 03 10	704	0.4−	0.3−	2000 04 07	704	0.2+	0.6+
1999 01 19	704	(1.0−	2.3−)	2000 03 10	704	1.3−	1.0+	2000 04 07	704	0.6−	0.4+
1999 01 19	704	(0.5−	3.4−)	2000 03 10	704	1.2−	0.2+	2000 04 07	704	0.3+	0.9+
1999 01 19	704	0.5+	1.3−	2000 03 14	704	0.5+	0.2−	2000 04 08	704	1.2+	0.6+
1999 02 10	704	0.2+	0.3+	2000 03 14	704	0.1−	0.1+	2000 04 08	704	0.3+	0.5+
1999 02 10	704	0.3+	0.2−	2000 03 14	704	0.3+	0.7−	2000 04 08	704	0.5+	0.3+
1999 02 10	704	0.2−	0.1+	2000 03 14	704	0.2+	0.4−	2000 04 08	704	0.3+	0.3−

1999 02 10	704	0.3−	0.6+	2000 03 14	704	0.2+	1.1−	2000 04 08	704	0.6+	0.4−
1999 02 10	704	0.8−	0.8+	2000 03 30	704	0.2−	0.2+	2000 04 10	704	0.4+	1.4−
1999 02 13	704	1.4+	1.1−	2000 03 30	704	0.6−	0.6+	2000 04 10	704	0.3−	0.0
1999 02 13	704	(0.9−	2.7+)	2000 03 30	704	0.1+	0.0	2000 04 10	704	0.4+	0.1+
1999 02 13	704	1.1−	1.2+	2000 03 30	704	0.4+	1.2+	2000 04 10	704	0.3−	0.2−
1999 02 13	704	0.2−	0.6+	2000 03 30	704	(1.8+	2.2+)	2000 04 11	608	0.9−	0.5−
1999 02 13	704	0.3+	0.6−	2000 04 07	704	0.5+	0.3−	2000 04 11	608	1.0−	0.5−
2000 03 10	704	0.8+	0.3−	2000 04 07	704	0.4+	0.0	2000 04 11	608	0.9−	0.5−

2000 EB₉₇ = 1992 EV₁ = 1996 CN₉ = 1998 XG₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	331.29583		(2000.0)	P		Q	
<i>n</i>	0.25700849	ω	238.88668	−0.65985345	+0.75119170		
<i>a</i>	2.4500281	Ω	349.76851	−0.65160492	−0.58363066		
<i>e</i>	0.1134770	<i>i</i>	5.63745	−0.37417170	−0.30836063		
<i>P</i>	3.83	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 03 06	303	0.3+	0.0	1998 12 14	704	0.2+	1.0−	2000 03 14	704	0.1−	0.1−
1992 03 06	303	1.0+	0.6+	1998 12 14	704	1.1+	0.3−	2000 03 14	704	1.3+	0.7−
1992 03 06	303	1.0+	0.6+	1998 12 14	704	(0.5+	2.3−)	2000 03 14	704	0.1+	0.4−
1992 03 07	303	0.7−	1.9−	1998 12 14	704	1.7−	0.1+	2000 03 14	704	0.5−	1.3−
1992 03 07	303	(2.6−	1.8−)	1998 12 17	704	0.2+	0.4−	2000 03 30	704	0.3−	0.0
1996 02 01	327	0.3−	0.5−	1998 12 17	704	0.6+	0.3−	2000 03 30	704	0.5−	0.2+
1996 02 01	327	0.3−	0.1−	1998 12 17	704	0.1+	0.6+	2000 03 30	704	0.1−	0.8+
1996 02 01	327	0.0	0.1−	1998 12 17	704	0.2−	0.4+	2000 04 06	704	0.0	0.3−
1996 03 20	691	0.2+	0.2+	2000 01 05	699	0.1−	0.8+	2000 04 06	704	0.1+	0.2−
1996 03 20	691	0.2−	0.2+	2000 01 05	699	0.3−	0.0	2000 04 06	704	0.0	0.6−
1996 03 20	691	0.0	0.3+	2000 01 05	699	0.8−	1.2+	2000 04 06	704	0.2−	0.3−
1996 03 20	566	0.8−	0.4+	2000 02 10	704	0.3+	1.2+	2000 04 10	704	0.1−	0.2+
1996 03 20	566	0.6−	0.3+	2000 02 10	704	0.7+	0.7+	2000 04 10	704	0.5+	0.4−
1996 03 20	566	0.6−	0.6+	2000 02 10	704	0.0	1.3+	2000 04 10	704	0.1−	0.0
1996 05 17	413(15.6+	13.3−)		2000 03 10	704	0.6+	1.1+	2000 04 10	704	0.1+	0.0
1996 05 17	413(16.2−	15.6−)		2000 03 10	704	1.1+	0.2+	2000 04 12	608	0.4−	0.5−
1997 08 30	566	0.3−	0.2+	2000 03 10	704	0.6+	0.2+	2000 04 12	608	0.3−	0.4−
1997 08 30	566	0.2−	0.1−	2000 03 10	704	0.2−	1.2−	2000 04 12	608	0.5−	0.7−
1997 08 30	566	0.2−	0.2+	2000 03 14	704	0.5+	0.3+				

2000 EJ₉₇ = 1998 VB₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	77.20143		(2000.0)	P		Q	
<i>n</i>	0.28172819	ω	239.03931	−0.25357036	−0.96428813		
<i>a</i>	2.3045308	Ω	225.85732	+0.91988253	−0.21592340		
<i>e</i>	0.0461901	<i>i</i>	6.11866	+0.29919592	−0.15338018		
<i>P</i>	3.50	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 18	699	0.6−	0.7+	2000 03 14	704	0.4−	0.6−	2000 04 08	704	0.5+	0.1−
1998 10 18	699	0.5+	0.8+	2000 03 14	704	0.4−	0.2+	2000 04 08	704	0.3−	0.5−
1998 10 18	699	0.0	0.9+	2000 03 14	704	0.4−	0.4+	2000 04 08	704	0.2−	0.2+
1998 11 10	704	0.3−	0.1−	2000 03 14	704	0.7−	0.1−	2000 04 08	704	1.1−	0.7+
1998 11 10	704	0.1−	0.8−	2000 03 27	699	0.6−	0.1−	2000 04 08	704	0.4+	0.4−
1998 11 10	704	1.2+	0.7−	2000 03 27	699	0.2−	0.5−	2000 04 08	704	0.4+	1.1−
1998 11 10	704	1.7−	0.4−	2000 03 27	699	0.1−	0.3−	2000 04 08	704	0.3+	1.4+
1998 11 10	704	(2.5−	1.4−)	2000 03 27	699	0.2+	0.5−	2000 04 08	704	1.6+	1.1+
1998 11 11	704	0.6+	0.8+	2000 04 07	704	0.0	0.8+	2000 04 08	704	0.3+	2.0+
1998 11 11	704	1.3+	0.6−	2000 04 07	704	0.2+	0.2+	2000 04 08	704	0.4+	1.8+
1998 11 11	704	1.6−	1.3+	2000 04 07	704	0.4+	0.6−	2000 04 10	704	0.2+	0.4−
1998 11 11	704	0.3+	0.4−	2000 04 07	704	0.4+	0.5+	2000 04 10	704	0.4+	0.4−
2000 03 10	704	0.9+	0.0	2000 04 07	704	0.1+	0.1−	2000 04 10	704	0.1−	0.6+
2000 03 10	704	0.9+	0.1+	2000 04 08	704	0.6+	0.0	2000 04 10	704	0.6+	1.1−
2000 03 10	704	0.9−	0.6−	2000 04 08	704	0.1+	0.7+	2000 04 12	608	0.2−	1.1−
2000 03 10	704	0.6−	0.9−	2000 04 08	704	0.6−	1.8+	2000 04 12	608	0.0	0.6−
2000 03 14	704	1.0−	0.5−	2000 04 08	704	0.4−	0.2−	2000 04 12	608	0.4−	0.8−

2000 APR. 18

M.P.C. 40181

2000 EM₉₇ = 1998 XA₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	234.47529		(2000.0)		P		Q				
<i>n</i>	0.25571763	ω	62.82201		+0.90187292		+0.42890164				
<i>a</i>	2.4582664	Ω	271.74141		−0.41239083		+0.81913544				
<i>e</i>	0.1908526	<i>i</i>	2.96251		−0.12868191		+0.38086811				
<i>P</i>	3.85	<i>H</i>	13.4	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 12 13	691	0.3−	0.0	2000 03 14	704	0.4−	0.2+	2000 04 07	704	0.6+	0.1+
1998 12 13	691	0.4−	0.5+	2000 03 14	704	0.2−	0.0	2000 04 08	704	0.9+	0.1−
1998 12 13	691	0.1+	0.6−	2000 03 14	704	0.4−	0.5−	2000 04 08	704	0.6+	0.0
1998 12 22	691	0.0	0.4−	2000 03 30	704	0.0	1.0−	2000 04 08	704	0.8+	0.7+
1998 12 22	691	0.3+	0.0	2000 03 30	704	0.0	0.0	2000 04 08	704	0.3+	0.4+
1998 12 22	691	0.4+	0.8+	2000 03 30	704	0.0	0.3+	2000 04 08	704	0.2+	0.0
2000 03 10	704	0.7−	0.3+	2000 03 30	704	0.3−	0.4−	2000 04 10	704	0.5−	0.3−
2000 03 10	704	0.4+	0.3+	2000 03 30	704	0.0	0.3−	2000 04 10	704	0.9−	0.7+
2000 03 10	704	0.3+	0.7−	2000 04 07	704	0.1−	0.3−	2000 04 10	704	0.5−	0.2+
2000 03 10	704	0.1+	0.1−	2000 04 07	704	0.1−	0.2−	2000 04 10	704	0.4−	0.0
2000 03 14	704	0.5+	0.6−	2000 04 07	704	0.1−	0.5+	2000 04 10	704	0.2−	0.7+
2000 03 14	704	0.1−	0.0	2000 04 07	704	0.0	0.1+				

2000 EO₉₇ = 1994 UB₁₀

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	332.92935		(2000.0)		P		Q				
n	0.28102858	ω	222.25176		-0.55987246		+0.82813341				
a	2.3083539	Ω	13.77352		-0.72642497		-0.47481343				
e	0.2591243	i	6.55139		-0.39855941		-0.29790479				
P	3.51	H	15.4	G	0.15		U	3			
Residuals in seconds of arc											
1994 10 28	691	0.2+	0.3+	2000 03 14	704	0.3-	0.1-	2000 04 04	428	0.5+	0.5-
1994 10 28	691	0.0	0.6-	2000 03 14	704	0.6+	0.4-	2000 04 06	704	0.2+	0.1-
1994 10 28	691	0.3-	0.2-	2000 03 14	704	0.3+	0.2-	2000 04 06	704	0.2-	0.0
1994 11 10	691	0.3-	0.2-	2000 03 14	704	0.0	0.2-	2000 04 06	704	0.1+	1.1-
1994 11 10	691	0.2+	0.3+	2000 03 14	704	0.5+	0.0	2000 04 06	704	0.0	0.5+
1994 11 10	691	0.1+	0.2+	2000 03 29	888	0.4-	0.8+	2000 04 06	704	0.4-	0.7+
2000 03 01	703	0.6-	0.8-	2000 03 29	888	0.3-	0.7+	2000 04 06	704	0.0	0.7+
2000 03 01	703	0.4+	0.4-	2000 03 29	888	0.4-	0.9+	2000 04 06	704	0.3-	0.6+
2000 03 01	703	0.1-	0.3+	2000 03 30	888	0.3+	0.2-	2000 04 06	704	0.7-	0.1+
2000 03 01	703	0.5-	0.0	2000 03 30	888	0.3+	0.1+	2000 04 08	704	0.6+	0.5-
2000 03 10	704	0.1+	0.4+	2000 03 30	888	0.1+	0.0	2000 04 08	704	0.1+	0.2+
2000 03 10	704	0.1+	0.2+	2000 04 03	428	0.1+	0.4-	2000 04 08	704	0.3-	0.4+
2000 03 10	704	0.0	0.3+	2000 04 03	428	0.6-	0.4-	2000 04 08	704	0.5-	0.6-
2000 03 10	704	0.1+	0.2+	2000 04 04	428	0.9+	0.8-	2000 04 08	704	0.4+	0.7-

2000 ES₉₇ = 1995 KG₂ = 1996 TD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	313.82797		(2000.0)			P		Q			
<i>n</i>	0.19092245	ω	76.99928		+0.29154348			+0.95100582			
<i>a</i>	2.9869736	Ω	210.56619		-0.93720940			+0.26246001			
<i>e</i>	0.2714583	<i>i</i>	11.67528		-0.19141824			+0.16340949			
<i>P</i>	5.16	<i>H</i>	13.0		<i>G</i>	0.15		<i>U</i>	3		
Residuals in seconds of arc											
1995 05 29	675	0.5+	0.7-	1996 11 02	327	0.2+	0.8+	2000 03 14	704	0.0	0.1-
1995 05 29	675	0.6-	0.3+	2000 03 04	703	0.1+	0.2+	2000 03 14	704	0.2-	0.0
1995 05 31	675	0.3-	0.6+	2000 03 04	703	0.6-	0.5+	2000 04 07	704	0.7-	0.6-
1995 05 31	675	0.4+	1.1-	2000 03 04	703	0.4+	0.3-	2000 04 07	704	0.9-	0.7-
1996 10 03	327	0.2+	0.6+	2000 03 04	703	0.1+	0.2-	2000 04 07	704	0.4-	0.1+
1996 10 03	327	0.1+	0.0	2000 03 10	704	0.6-	0.7+	2000 04 07	704	0.6-	1.0+
1996 10 03	327	0.2-	0.0	2000 03 10	704	0.6-	0.2+	2000 04 10	704	0.6+	1.9+
1996 10 05	327	0.1-	0.7+	2000 03 10	704	0.2-	0.3-	2000 04 10	704	0.5+	1.8+
1996 10 05	327	0.3-	0.4+	2000 03 10	704	0.5+	1.2-	2000 04 10	704	1.3+	1.3+

1996 10 05	327	0.2-	0.0	2000 03 14	704	0.3-	0.3+	2000 04 10	704	1.4+	1.2+
1996 11 02	327	0.3-	1.0+	2000 03 14	704	0.3+	0.1-				
1996 11 02	327	0.1+	1.4+	2000 03 14	704	0.4-	0.5-				

2000 EW₉₇ = 1979 DV = 1996 GP

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	306.04656		(2000.0)		P		Q				
n	0.23528949	ω	204.07296		-0.45796075		+0.87682559				
a	2.5985697	Ω	39.12354		-0.77331871		-0.31168085				
e	0.1236445	i	13.42078		-0.43846336		-0.36610372				
P	4.19	H	13.1	G	0.15	U	2				
Residuals in seconds of arc											
1979 02 25	033	0.7-	0.8-	1998 12 17	704	0.3-	0.2+	2000 03 14	704	0.4+	0.4+
1979 02 25	033	0.2-	0.7-	1998 12 17	704	0.1+	1.0-	2000 03 14	704	0.5+	0.9+
1996 04 09	608	0.8-	1.8-	1998 12 17	704	0.7-	0.0	2000 03 29	704	0.0	0.0
1996 04 09	608	0.9-	1.4-	1998 12 17	704	0.1+	0.9+	2000 03 29	704	0.0	0.2-
1996 04 10	608	0.2-	0.1-	2000 01 07	704	0.5-	0.7+	2000 03 29	704	0.1-	0.2+
1996 04 10	608	0.2-	0.1-	2000 01 07	704	1.6-	0.6-	2000 03 29	704	0.1+	0.2-
1996 04 12	608	0.2+	0.1+	2000 01 07	704	0.6-	0.0	2000 03 29	704	0.1-	0.2+
1996 04 12	608	0.4+	0.1+	2000 01 07	704	0.1-	0.2+	2000 04 03	704	0.0	0.2+
1996 04 12	411	1.2-	0.3+	2000 01 07	704	1.3+	0.2-	2000 04 03	704	0.0	0.0
1996 04 12	411	0.5-	0.1+	2000 03 11	703	0.1-	0.1+	2000 04 03	704	0.2+	0.3-
1996 04 13	608	0.1+	0.0	2000 03 11	703	(1.4-	2.3+)	2000 04 03	704	0.1-	0.4-
1996 04 13	608	0.2+	0.2+	2000 03 11	703	1.6+	1.4+	2000 04 03	704	0.1-	0.5-
1996 04 13	411	0.1+	0.4+	2000 03 11	703	0.3+	0.2-	2000 04 07	699	0.2-	0.4+
1996 04 13	411	0.1-	0.6-	2000 03 12	704	0.5+	0.3+	2000 04 07	699	0.1+	0.2+
1996 04 13	411	0.1-	0.9-	2000 03 12	704	0.1+	0.1-	2000 04 07	699	0.1-	0.1+
1996 04 14	608	0.5+	0.4+	2000 03 12	704	0.2+	0.3-	2000 04 07	699	0.4-	0.2+
1996 04 14	608	0.4+	0.2+	2000 03 12	704	0.1+	0.2-	2000 04 08	704	0.3+	0.1+
1998 11 16	704	0.6+	1.1-	2000 03 14	704	0.2+	1.2-	2000 04 08	704	0.0	0.3+
1998 11 16	704	0.8+	2.0-	2000 03 14	704	0.2-	0.3-	2000 04 08	704	0.4+	0.1+
1998 11 16	704	(2.8+	1.4-)	2000 03 14	704	0.4-	0.5+	2000 04 08	704	0.1+	0.6+
1998 11 16	704	0.4-	0.2-	2000 03 14	704	0.2+	0.3+	2000 04 08	704	0.1+	0.9+
1998 12 17	704	0.0	1.6+	2000 03 14	704	0.1-	0.5+				

2000 EW₉₉ = 1998 YD₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	143.78622		(2000.0)		P		Q	
n	0.20105684	ω	11.92607		+0.95355687		-0.30119953	
a	2.8857374	Ω	5.60604		+0.27390194		+0.86311856	
e	0.1010528	i	1.67321		+0.12532765		+0.40534577	
P	4.90	H	14.4	G	0.15	U	5	
Residuals in seconds of arc								
1998 12 14	704 (3.1+ 0.2-)	2000 03 03	704 0.7+ 0.4+	2000 03 11	699 0.6- 0.2-			
1998 12 14	704 (3.1+ 0.7+)	2000 03 03	704 0.1+ 1.4+	2000 03 12	691 0.0 0.1-			
1998 12 14	704 0.4+ 0.5+	2000 03 03	704 0.5+ 0.3-	2000 03 12	691 0.1- 0.1-			
1998 12 14	704 (3.8- 0.6-)	2000 03 11	704 0.3+ 0.4-	2000 03 12	691 0.0 0.3-			
1998 12 16	704 1.2- 1.0-	2000 03 11	699 1.5- 0.5+	2000 03 14	691 0.1- 0.1-			
1998 12 16	704 (2.4+ 1.6-)	2000 03 11	704 0.7- 0.3-	2000 03 14	691 0.0 0.1-			
1998 12 16	704 (4.7- 1.1-)	2000 03 11	704 0.5+ 0.2-	2000 03 14	691 0.1+ 0.2+			
1998 12 17	704 0.1- 0.6+	2000 03 11	699 1.2+ 0.3+	2000 04 05	704 1.8+ 0.3-			
1998 12 17	704 0.2+ 0.2+	2000 03 11	704 0.5- 0.1-	2000 04 05	704 0.8- 0.3+			
1998 12 17	704 0.9+ 0.0	2000 03 11	699 0.4- 0.2-	2000 04 05	704 0.4- 0.1+			
1998 12 17	704 0.2- 0.2-	2000 03 11	704 0.1+ 1.0-	2000 04 05	704 0.2- 0.4+			

2000 EE₁₀₁ = 1982 HP = 1988 JO₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	116.28087		(2000.0)			P		Q			
<i>n</i>	0.17214009	ω	319.87156			−0.64999059		−0.75697633			
<i>a</i>	3.2004769	Ω	170.01644			+0.75781889		−0.65223820			
<i>e</i>	0.0787120	<i>i</i>	22.76172			+0.05676949		+0.03965047			
<i>P</i>	5.73	<i>H</i>	11.7			<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc											
1982 04 18	688	1.1+	2.2−	1999 04 15	704	0.1−	0.3+	2000 03 13	360	0.0	0.1−
1982 04 18	688	0.4−	1.8−	1999 04 15	704	0.3+	1.5+	2000 03 14	360	0.3+	0.1+
1982 04 25	688	0.5−	0.9−	1999 04 15	704	0.8−	1.4+	2000 03 14	360	0.2−	0.1+
1982 04 25	688	0.2−	1.7−	1999 04 15	704	0.2−	0.3+	2000 03 14	360	0.1+	0.0
1988 05 13	675	0.8−	1.5−	1999 04 16	704	0.3+	0.4−	2000 03 30	360	0.0	0.8+
1988 05 13	675	0.1−	0.2−	1999 04 16	704	0.1−	0.8+	2000 03 30	360	0.0	0.7+
1999 04 12	704	0.5+	0.0	1999 04 16	704	0.6−	0.0	2000 03 30	360	0.1+	0.9+
1999 04 12	704	0.0	0.3+	1999 04 16	704	0.6−	0.4−	2000 04 12	360	0.3−	0.2+
1999 04 12	704	0.0	1.2+	1999 04 16	704	0.4−	0.2+	2000 04 12	360	0.1+	0.1−
1999 04 12	704	0.3−	0.4+	2000 03 13	360	0.3+	0.2+	2000 04 12	360	0.1+	0.2+
1999 04 12	704	1.9+	0.0	2000 03 13	360	0.3+	0.3+				
1999 04 15	704	0.1+	0.6+	2000 03 13	360	0.4+	0.3+				

2000 EF₁₀₁ = 1998 XO₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	295.76537		(2000.0)			P		Q			
<i>n</i>	0.28807116	ω	241.54171			+0.19542670		+0.97757525			
<i>a</i>	2.2705768	Ω	39.97501			−0.85167826		+0.20883330			
<i>e</i>	0.2689260	<i>i</i>	7.01425			−0.48626386		+0.02711599			
<i>P</i>	3.42	<i>H</i>	14.2			<i>G</i>	0.15	<i>U</i>	4		
Residuals in seconds of arc											
1998 12 14	704	0.1−	0.6−	2000 03 08	691	0.7−	0.1−	2000 04 07	704	0.7+	0.3+
1998 12 14	704	(2.8+	0.5−)	2000 03 08	691	0.9−	0.0	2000 04 07	704	0.1−	0.2−
1998 12 14	704	1.7+	0.1+	2000 03 09	704	1.8+	1.3−	2000 04 08	704	0.4+	0.2−
1998 12 17	704	0.6+	0.4+	2000 03 09	704	0.7−	1.3−	2000 04 08	704	0.0	0.2−
1998 12 17	704	(2.9+	0.7+)	2000 03 09	704	0.8−	0.5+	2000 04 08	704	0.2+	0.0
1998 12 17	704	0.9−	1.4+	2000 03 15	691	0.1−	0.1+	2000 04 08	704	0.0	0.0
1999 01 16	704	1.0+	1.8−	2000 03 15	691	0.7−	0.3−	2000 04 08	704	(3.9−	1.1−
1999 01 16	704	0.2+	0.6+	2000 03 15	691	0.4−	0.0	2000 04 14	704	0.1+	0.0
1999 01 16	704	2.0−	0.8+	2000 04 04	699	0.2−	0.0	2000 04 14	704	0.1−	0.2+
1999 01 16	704	0.4−	0.1−	2000 04 04	699	0.3−	0.0	2000 04 14	704	0.2+	0.2+
1999 01 16	704	(3.8−	0.5+)	2000 04 04	699	0.1−	0.0	2000 04 14	704	0.1+	0.6+
2000 02 08	704	0.6−	0.3+	2000 04 04	699	0.3−	0.3+	2000 04 14	704	0.1−	0.5+
2000 02 08	704	0.2+	0.2−	2000 04 07	704	0.6+	0.1+	2000 04 15	704	0.2+	0.1+
2000 02 08	704	0.0	0.1−	2000 04 07	704	0.7+	0.2+	2000 04 15	704	0.0	0.5+
2000 03 08	691	0.7−	0.0	2000 04 07	704	0.5+	0.0	2000 04 15	704	0.4+	0.1+

2000 EY₁₀₃ = 1998 UT₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	72.38695		(2000.0)	P			Q				
<i>n</i>	0.27066718	ω	192.23426		−0.20662405		−0.97054180				
<i>a</i>	2.3668950	Ω	269.78599		+0.90780508		−0.14292639				
<i>e</i>	0.1359833	<i>i</i>	7.11820		+0.36496088		−0.19396045				
<i>P</i>	3.64	<i>H</i>	14.2	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 09 20	699	0.4+	0.2+	1998 11 17	699	0.3−	0.4+	2000 03 15	704	0.9−	0.4+
1998 09 20	699	0.4−	0.6+	1998 11 17	699	0.1−	0.9+	2000 03 30	704	0.9−	1.4+
1998 09 20	699	0.4+	0.4+	2000 03 14	704	0.1−	0.3+	2000 03 30	704	0.1−	0.1+
1998 10 23	327	(0.3−	3.2−)	2000 03 14	704	0.3+	0.0	2000 03 30	704	1.1+	0.7−
1998 10 23	327	(0.9+	2.7−)	2000 03 14	704	0.4−	0.5−	2000 03 30	704	0.5−	0.3−
1998 10 23	327	1.9+	2.0−	2000 03 14	704	0.4−	0.8−	2000 04 06	704	0.1+	0.1+
1998 10 30	327	0.4−	0.2+	2000 03 14	704	0.1−	0.2+	2000 04 06	704	0.6+	0.3+
1998 10 30	327	1.2−	0.1+	2000 03 15	704	(0.1−	2.2+)	2000 04 06	704	0.7+	0.0
1998 10 30	327	0.5−	0.1+	2000 03 15	704	0.4+	0.2+	2000 04 06	704	0.6+	0.1+
1998 11 17	699	0.0	0.3−	2000 03 15	704	0.3−	0.3−				

2000 EB₁₀₄ = 1998 XV₈₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.48227		(2000.0)		P		Q				
<i>n</i>	0.20372204	ω	337.13600		−0.95019121		+0.26021069				
<i>a</i>	2.8605137	Ω	219.24654		−0.22721032		−0.95508757				
<i>e</i>	0.1982481	<i>i</i>	15.73251		−0.21333575		−0.14176790				
<i>P</i>	4.84	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
1993 12 10	691	0.3+	0.3+	1998 12 22	704	0.2+	0.4−	2000 03 30	704	0.1−	0.5−
1993 12 10	691	0.2−	0.3+	2000 01 28	704	0.9+	0.6+	2000 03 30	704	0.3−	0.1−
1993 12 10	691	0.3−	0.2+	2000 01 28	704	0.1−	1.1−	2000 03 30	704	0.1−	0.0
1993 12 10	691	(0.4−	5.1−)	2000 01 28	704	0.7−	0.6+	2000 03 30	704	0.2−	0.4−
1993 12 10	691	0.9+	0.4+	2000 03 14	704	1.0−	0.9−	2000 04 06	704	1.4+	0.9+
1993 12 10	691	0.4−	0.9+	2000 03 14	704	0.0	0.1−	2000 04 06	704	0.5+	0.6+
1998 12 15	704	0.6−	0.7+	2000 03 14	704	0.4−	0.5+	2000 04 06	704	0.2+	0.4+
1998 12 15	704	0.4+	0.0	2000 03 15	704	1.1+	0.8+	2000 04 06	704	1.0+	0.0
1998 12 15	704	0.2−	0.8−	2000 03 15	704	0.9+	0.3+	2000 04 06	704	0.8+	0.7+
1998 12 15	704	1.0−	2.0−	2000 03 15	704	0.1−	0.9−	2000 04 10	608	0.9−	0.2−
1998 12 22	704	0.1+	0.4+	2000 03 15	704	0.3+	0.6−	2000 04 10	608	0.9−	0.1+
1998 12 22	704	0.1−	0.0	2000 03 15	704	0.8−	0.7+	2000 04 10	608	0.9−	0.2−
1998 12 22	704	1.1+	0.5+	2000 03 30	704	0.3−	0.6−				

2000 EK₁₀₄ = 1999 CA₁₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	14.48027		(2000.0)		P		Q				
<i>n</i>	0.18728445	ω	123.55079		−0.93866373		+0.23001775				
<i>a</i>	3.0255307	Ω	70.90830		−0.32862848		−0.82240847				
<i>e</i>	0.0835422	<i>i</i>	15.77512		+0.10446878		−0.52032312				
<i>P</i>	5.26	<i>H</i>	13.2		<i>G</i>	0.15	<i>U</i>	3			
Residuals in seconds of arc											
1997 11 06	704	0.9−	1.7+	1999 02 11	704	0.8−	0.7−	2000 04 06	691	0.0	0.2−
1997 11 06	704	0.5−	0.6+	1999 02 11	704	1.5−	0.5−	2000 04 06	691	0.1+	0.2−
1997 11 06	704	0.7−	1.7+	1999 02 18	704	0.4+	0.1−	2000 04 06	691	0.0	0.2−
1997 11 06	704	0.5−	1.0−	1999 02 18	699	(2.2+	2.0+)	2000 04 07	704	0.6+	0.3+
1997 11 06	704	(2.3−	1.4+)	1999 02 18	704	1.2+	1.1+	2000 04 07	704	0.3−	0.4−
1997 11 06	704	0.4−	0.5−	1999 02 18	704	0.9+	0.4+	2000 04 07	704	0.7+	0.6+
1997 11 06	704	0.0	1.7+	1999 02 18	699	0.4+	0.5−	2000 04 07	704	0.8+	0.0
1997 11 06	704	0.2−	0.4−	1999 02 18	704	0.9+	1.1+	2000 04 07	704	0.6−	0.3−
1997 11 06	704	1.5−	1.7+	1999 02 18	699	1.2+	0.1+	2000 04 07	691	0.1+	0.2−
1997 11 06	704	0.8−	0.7+	1999 02 18	704	1.2+	0.6−	2000 04 07	691	0.2−	0.1−
1997 11 30	566	0.3+	0.1+	1999 02 19	566	0.5+	1.1+	2000 04 07	691	0.0	0.1−
1997 11 30	566	0.8+	0.3+	1999 02 19	566	0.3+	0.4+	2000 04 10	691	0.1−	0.1−
1997 11 30	566	0.2+	0.0	1999 02 19	566	0.3+	0.9+	2000 04 10	691	0.0	0.0
1998 12 17	699	0.5−	0.1−	1999 04 06	704	0.9−	0.8+	2000 04 10	691	0.1+	0.0
1998 12 17	699	0.7−	0.2−	1999 04 06	704	1.2+	0.9+	2000 04 12	704	0.3+	1.4+
1998 12 17	699	0.6−	0.1−	1999 04 06	704	0.2−	0.7−	2000 04 12	704	0.2+	0.6+
1998 12 21	704	1.1+	0.7+	1999 04 06	704	0.1−	1.6−	2000 04 12	704	0.4+	0.5+
1998 12 21	704	1.4−	0.2−	1999 04 06	704	(3.7−	2.3−)	2000 04 12	704	0.2−	0.5+
1998 12 21	704	0.1+	1.1−	2000 03 14	120	0.1+	1.1+	2000 04 12	704	0.2+	1.1+
1998 12 21	704	0.7−	0.7−	2000 03 14	120	0.2+	0.6−	2000 04 13	704	0.5+	1.1+
1998 12 21	704	0.4−	1.0+	2000 03 14	120	1.0−	0.0	2000 04 13	704	0.7+	0.8−
1999 02 11	704	0.3−	1.7−	2000 03 16	120	0.1+	0.5+	2000 04 13	704	0.3+	0.5+
1999 02 11	704	0.2−	0.4−	2000 03 16	120	0.1−	0.0	2000 04 13	704	0.9+	0.4−
1999 02 11	704	1.0−	0.3+	2000 03 16	120	0.5−	1.2+	2000 04 13	704	0.0	0.7+

2000 APR. 18

M.P.C. 40183

Residuals in seconds of arc

1997 10 30	704	0.4−	0.2+	1999 02 10	704	1.1−	1.2+	2000 04 07	704	0.4+	0.3+
1997 10 30	704	0.2−	0.7+	1999 02 10	704	0.5−	0.3−	2000 04 07	704	0.4+	0.4−
1997 10 30	704	0.0	0.6+	1999 02 10	704	0.0	1.3+	2000 04 07	704	0.1+	0.3+
1997 10 30	704	0.5+	0.3−	1999 02 13	704	0.9−	0.4+	2000 04 07	704	0.6+	0.3−
1997 10 30	704	0.0	0.4+	1999 02 13	704	0.2−	1.0−	2000 04 07	704	0.9+	0.5+
1997 12 25	566	0.7−	0.6+	1999 02 13	704	0.5−	0.7−	2000 04 08	704	0.2+	0.3+
1997 12 25	566	0.7−	0.7+	1999 02 13	704	1.3−	1.5−	2000 04 08	704	0.0	1.5+
1997 12 25	566	0.9−	0.9+	2000 03 04	703	0.3−	0.8−	2000 04 08	704	0.2+	0.5+
1998 12 21	704	0.3+	0.8+	2000 03 04	703	0.4+	0.3+	2000 04 08	704	0.2−	0.7+
1998 12 21	704	0.4−	0.4−	2000 03 04	703	0.1+	0.2+	2000 04 08	428	1.3−	0.9+
1998 12 21	704	0.9+	1.8−	2000 03 04	703	0.1−	0.4+	2000 04 10	704	0.6+	1.5+
1998 12 21	704	(4.4−	1.2+)	2000 03 14	428	1.3+	1.5−	2000 04 10	704	1.6+	0.4+
1999 01 22	699	0.5+	0.7+	2000 03 14	428	0.2−	1.0−	2000 04 10	704	1.3+	0.9+
1999 01 22	699	0.6+	1.2+	2000 03 15	428	0.2−	0.4−	2000 04 13	608	0.2−	0.4+
1999 01 22	699	0.9+	0.1+	2000 03 15	428	0.7−	0.0	2000 04 13	608	0.1−	0.0
1999 02 10	704	0.7+	0.2−	2000 03 15	428	1.9−	0.7−	2000 04 13	608	0.1−	0.1−
1999 02 10	704	0.7+	0.3−	2000 03 26	428	1.1−	0.4−				

2000 EN₁₀₄ = 1993 TT₁₈ = 1998 XN₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22418847	ω	335.93240	−0.98513075	−0.16186441		
<i>a</i>	2.6836582	Ω	195.09421	+0.17003722	−0.96655218		
<i>e</i>	0.1143178	<i>i</i>	12.77819	−0.02459160	−0.19893916		
<i>P</i>	4.40	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 09	809	0.5+	1.7+	1999 01 14	699	1.1+	0.5+	2000 04 05	704	0.3+	0.1+
1993 10 09	809	(0.1+	2.3+)	2000 02 10	704	1.0−	0.3+	2000 04 05	704	0.4+	0.3+
1993 10 09	809	(1.1−	2.4+)	2000 02 10	704	0.2−	0.6+	2000 04 06	704	0.1−	0.0
1993 10 11	809	0.5−	0.6+	2000 02 10	704	0.4−	1.4+	2000 04 06	704	0.2+	0.1+
1993 10 11	809	0.5−	1.2+	2000 02 10	704	0.6−	0.7+	2000 04 06	704	0.2+	0.3+
1993 10 11	809	0.3−	1.7+	2000 03 15	704	1.5+	0.8−	2000 04 06	704	0.3+	0.6+
1993 10 12	809	(4.3−	0.4+)	2000 03 15	704	1.2+	0.0	2000 04 06	704	0.2+	0.6+
1993 10 12	809	(5.2−	0.5−)	2000 03 15	704	0.3−	0.3+	2000 04 07	704	0.1+	0.1+
1993 10 12	809	(6.8−	0.6−)	2000 03 15	704	0.0	0.5−	2000 04 07	704	0.4+	0.2+
1998 12 15	704	1.3−	0.1+	2000 03 16	704	1.3+	0.4−	2000 04 07	699	1.0−	0.5+
1998 12 15	704	0.9+	0.3−	2000 03 16	704	0.9+	0.8−	2000 04 07	704	0.0	0.0
1998 12 15	704	0.8−	0.4+	2000 03 16	704	0.4−	0.2+	2000 04 07	699	0.7−	0.6+
1998 12 15	704	0.4−	0.2−	2000 04 02	931	0.5+	1.5+	2000 04 07	699	0.8−	0.5+
1998 12 15	704	0.5+	0.7+	2000 04 02	931	0.3+	1.2+	2000 04 07	704	0.2+	0.0
1998 12 22	704	0.8+	0.1+	2000 04 04	699	0.5−	0.4+	2000 04 07	699	0.7−	0.4+
1998 12 22	704	0.1+	1.1−	2000 04 04	699	0.5−	0.3+	2000 04 07	704	0.4+	0.5−
1998 12 22	704	0.0	0.9+	2000 04 04	699	0.6−	0.2+	2000 04 11	608	0.1−	0.9−
1998 12 22	704	1.0−	1.5−	2000 04 04	699	0.6−	0.3+	2000 04 11	608	0.6−	1.4−
1998 12 22	704	0.4+	0.6−	2000 04 05	704	0.4+	0.0	2000 04 11	608	0.4+	0.9−
1999 01 14	699	0.2+	0.1+	2000 04 05	704	0.2+	0.0				
1999 01 14	699	0.3−	0.8+	2000 04 05	704	0.4+	0.0				

2000 EP₁₀₄ = 1998 UX₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26591245	ω	160.08440	−0.94330125	−0.33193751		
<i>a</i>	2.3950262	Ω	0.52991	+0.29698865	−0.84463519		
<i>e</i>	0.1757239	<i>i</i>	3.01035	+0.14825818	−0.42001057		
<i>P</i>	3.71	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 28	704	(2.2+	2.0+)	2000 02 10	704	0.1−	0.4+	2000 03 26	428	(2.4−	0.7−)
1998 10 28	704	0.9+	0.3−	2000 02 10	704	0.8+	0.5+	2000 03 26	428	0.9−	0.1+
1998 10 28	704	0.2−	0.3−	2000 02 10	704	0.2+	0.0	2000 04 07	704	0.1+	0.4+
1998 10 28	704	0.2+	0.2−	2000 03 12	704	0.2+	0.3+	2000 04 07	704	0.2+	0.6+
1998 10 29	704	0.6+	0.8+	2000 03 12	704	0.1+	1.5−	2000 04 07	704	0.1−	0.6+
1998 10 29	704	0.8+	0.4−	2000 03 12	704	0.3−	0.2−	2000 04 07	704	0.4+	0.2+
1998 10 29	704	0.2−	1.0−	2000 03 12	704	0.5−	1.0−	2000 04 07	704	1.2+	0.3−

1998 10 29	704	0.1+	0.2−	2000 03 12	704	0.8−	0.7−	2000 04 08	704	0.2+	0.1−
1998 11 11	704	0.0	0.7+	2000 03 15	428	0.4−	0.2+	2000 04 08	704	0.2+	0.1+
1998 11 11	704	0.3−	0.8−	2000 03 16	428	(0.3−	2.1+)	2000 04 08	704	0.3+	0.2−
1998 11 11	704	0.8−	0.4+	2000 03 16	428	0.7−	0.8+	2000 04 08	704	0.1+	0.1+
1998 11 11	704	1.5−	1.4+	2000 03 16	428	0.7−	0.4+	2000 04 08	704	0.5+	0.3−

2000 EQ₁₀₄ = 1992 AQ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.25738885	ω	346.68314	−0.12706432	−0.98529369		
<i>a</i>	2.4476138	Ω	110.52380	+0.92085665	−0.15998128		
<i>e</i>	0.1246522	<i>i</i>	7.00660	+0.36861590	+0.06001952		
<i>P</i>	3.83	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 01 12	372	0.8+	0.4+	2000 03 12	703	0.0	0.4+	2000 03 29	704	0.2−	0.7−
1992 01 14	372	0.4−	1.1+	2000 03 12	703	0.4−	0.3+	2000 04 05	704	0.2+	0.2−
1992 01 15	372	(3.6+	1.2−)	2000 03 13	704	0.3+	0.0	2000 04 05	704	0.2+	0.2+
2000 01 08	704	0.9−	0.3+	2000 03 13	704	0.4−	0.2−	2000 04 05	704	0.4+	0.1−
2000 01 08	704	0.1+	1.4−	2000 03 13	704	0.4−	0.1+	2000 04 05	704	0.2+	0.1+
2000 01 08	704	0.3+	1.2−	2000 03 13	704	0.2−	0.5+	2000 04 05	704	0.0	0.2+
2000 01 08	704	0.2−	1.1−	2000 03 13	704	0.0	0.4+	2000 04 08	704	0.0	0.4+
2000 01 08	704	0.2+	0.8−	2000 03 15	699	0.3−	0.0	2000 04 08	704	0.3−	0.1+
2000 02 29	704	0.0	0.2−	2000 03 15	699	0.4−	0.0	2000 04 08	704	0.1+	0.3+
2000 02 29	704	0.4+	0.3+	2000 03 15	699	0.3−	0.0	2000 04 08	704	0.3−	0.5+
2000 02 29	704	0.5+	0.2−	2000 03 15	699	0.4−	0.1+	2000 04 08	704	0.5−	0.2−
2000 02 29	704	0.6−	0.0	2000 03 17	704	(2.5+	0.5+)	2000 04 13	704	0.4+	0.8+
2000 03 11	699	0.0	0.6−	2000 03 17	704	0.4+	0.6−	2000 04 13	704	1.4+	0.5+
2000 03 11	699	0.4−	0.2+	2000 03 17	704	0.8+	0.5+	2000 04 13	704	1.8+	0.3+
2000 03 11	699	0.1−	0.1−	2000 03 29	704	0.7−	0.1+	2000 04 13	704	0.3+	0.4+
2000 03 11	699	0.2−	0.3+	2000 03 29	704	0.7−	0.4−	2000 04 13	704	1.0+	1.0−
2000 03 12	703	0.7−	0.3+	2000 03 29	704	0.4−	0.6−				
2000 03 12	703	0.0	0.2+	2000 03 29	704	0.2−	0.4−				

2000 ES₁₀₄ = 1998 TK₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28646607	ω	329.01880	−0.98176446	+0.18331842		
<i>a</i>	2.2790504	Ω	221.63970	−0.15519743	−0.92579501		
<i>e</i>	0.1070767	<i>i</i>	4.34399	−0.10978294	−0.33060242		
<i>P</i>	3.44	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 11	699	0.4−	0.7+	2000 03 06	608	0.3+	0.4−	2000 03 17	704	0.1+	0.2−
1998 10 11	699	0.4+	0.8+	2000 03 06	608	0.1+	0.3−	2000 03 17	704	0.0	0.5+
1998 10 11	699	0.3+	0.5+	2000 03 06	608	0.8+	0.5−	2000 04 07	699	0.2−	0.2+
1998 10 19	699	0.6−	0.2−	2000 03 09	704	0.3+	0.6−	2000 04 07	699	0.1−	0.2+
1998 10 19	699	0.4+	0.3−	2000 03 09	704	0.7+	0.3−	2000 04 07	699	0.2−	0.3+
1998 10 19	699	0.5−	0.0	2000 03 09	704	0.1−	0.2+	2000 04 07	704	0.4+	0.0
2000 01 05	704	0.1−	0.5+	2000 03 12	699	0.4−	0.1−	2000 04 07	699	0.4−	0.2+
2000 01 05	704	0.1+	0.3−	2000 03 12	699	0.2−	0.0	2000 04 07	704	0.1+	0.1+
2000 01 05	704	0.7+	0.2+	2000 03 12	699	0.3−	0.1+	2000 04 07	704	0.3+	0.1+
2000 01 10	704	0.3+	0.5+	2000 03 12	699	0.4−	0.1+	2000 04 07	704	0.5+	0.0
2000 01 10	704	0.7−	0.5−	2000 03 13	704	0.2+	0.1−	2000 04 07	704	0.4+	0.2+
2000 01 10	704	(3.0−	1.1−)	2000 03 13	704	0.0	0.9−	2000 04 08	704	0.4+	0.6+
2000 03 03	703	0.2+	0.1+	2000 03 13	704	1.3−	0.3−	2000 04 08	704	0.2+	0.4+
2000 03 03	703	0.1−	0.0	2000 03 17	704	0.2−	0.4−	2000 04 08	704	0.5+	0.1−
2000 03 03	703	0.1−	0.1+	2000 03 17	704	0.6−	0.3+	2000 04 08	704	0.3+	1.0+
2000 03 03	703	0.3−	0.3+	2000 03 17	704	1.2−	1.0−	2000 04 08	704	0.6+	0.8+

2000 EX₁₀₄ = 1997 MH₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.08786		(2000.0)	P		Q	
<i>n</i>	0.29006516	ω	134.30798	−0.58639514		+0.80179520	
<i>a</i>	2.2601591	Ω	99.44816	−0.77245450		−0.51071448	
<i>e</i>	0.1533145	<i>i</i>	6.70506	−0.24383354		−0.31031464	
<i>P</i>	3.40	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 06 28	704	0.2−	0.4+	2000 03 11	699	0.4−	0.2−	2000 03 29	704	0.1−	0.3−
1997 06 28	704	0.2−	0.1+	2000 03 11	699	0.0	0.4+	2000 03 29	704	0.3−	0.1−
1997 06 28	704	1.4−	2.0+	2000 03 12	703	1.1−	0.5−	2000 03 29	704	0.2−	1.2−
1997 06 29	704	0.5+	0.1−	2000 03 12	703	0.6−	0.6−	2000 03 29	704	0.5+	0.6−
1997 06 29	704	0.3−	0.3−	2000 03 12	703	0.8−	0.9+	2000 04 03	704	0.2−	0.4+
1997 06 29	704	1.0+	0.2+	2000 03 12	703	0.1+	0.3−	2000 04 03	704	0.1−	0.6+
1997 06 29	704	1.6−	0.7+	2000 03 12	704	1.3+	0.2+	2000 04 03	704	0.5−	0.2−
1997 06 29	704	0.4+	0.9−	2000 03 12	704	0.2+	0.2−	2000 04 03	704	0.1−	0.4+
1997 07 02	704	0.7+	0.6−	2000 03 12	704	0.0	0.6+	2000 04 03	704	0.4+	0.1+
1997 07 02	704	0.1+	0.2−	2000 03 12	704	0.5+	0.5+	2000 04 08	704	0.2−	0.3+
1997 07 02	704	0.0	0.5−	2000 03 15	699	0.8+	0.5+	2000 04 08	704	0.0	0.7−
1997 07 02	704	0.4+	0.1−	2000 03 15	699	0.2−	0.1−	2000 04 08	704	0.2+	0.8−
1997 07 02	704	0.5+	0.5−	2000 03 15	699	0.0	0.7+	2000 04 08	704	0.3+	0.0
2000 03 11	699	0.3+	0.2+	2000 03 15	699	1.0−	0.1−	2000 04 08	704	0.1+	0.2−
2000 03 11	699	0.7+	0.1−	2000 03 29	704	0.4+	0.4+				

2000 EA₁₀₅ = 1993 TW₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	305.24898		(2000.0)	P		Q	
<i>n</i>	0.24100338	ω	206.14191	−0.20058806		+0.96899694	
<i>a</i>	2.5573330	Ω	52.62673	−0.86402146		−0.10557464	
<i>e</i>	0.2435859	<i>i</i>	10.45838	−0.46176981		−0.22338069	
<i>P</i>	4.09	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 09	809	0.1+	0.3+	2000 01 08	704	0.8+	0.3−	2000 03 29	704	0.5+	0.1−
1993 10 09	809	(3.4−	0.1+)	2000 01 08	704	0.7+	0.4−	2000 04 03	704	0.1−	0.1+
1993 10 09	809	(3.7−	1.8−)	2000 02 06	704	0.3+	0.0	2000 04 03	704	0.1−	0.0
1993 10 11	809	(0.9+	4.4+)	2000 02 06	704	0.6−	0.6+	2000 04 03	704	0.3−	0.0
1993 10 11	809	(0.3−	3.9+)	2000 02 06	704	1.4+	0.0	2000 04 03	704	0.1−	0.4+
1993 10 11	809	(0.2+	3.8+)	2000 03 11	703	0.2+	0.1+	2000 04 03	704	0.1+	0.6+
1993 10 21	809	(0.7−	3.1+)	2000 03 11	703	0.1+	0.5+	2000 04 08	704	0.2+	0.2−
1993 10 21	809	1.5−	2.0+	2000 03 11	703	0.1+	0.3+	2000 04 08	704	0.3−	0.3+
1993 10 21	809	(0.6−	2.9+)	2000 03 11	703	0.3+	0.6+	2000 04 08	704	0.1+	0.3+
1998 12 17	704	1.7−	1.3−	2000 03 11	699	0.7+	0.1−	2000 04 08	704	0.6−	0.2+
1998 12 17	704	(0.2+	2.2−)	2000 03 11	699	0.3+	0.1−	2000 04 08	704	0.1−	0.1+
1998 12 17	704	0.6+	0.0	2000 03 11	699	0.2−	1.3+	2000 04 10	608	0.0	0.3−
1998 12 17	704	(2.2+	1.5−)	2000 03 11	699	0.4+	0.2+	2000 04 10	608	0.1+	0.6−
1998 12 17	704	(3.6−	0.2+)	2000 03 15	699	0.1−	0.1+	2000 04 10	608	0.4−	0.1−
1999 01 16	704	0.7+	0.3+	2000 03 15	699	0.3−	0.1+	2000 04 13	704	0.7−	0.1−
1999 01 16	704	0.5+	0.4−	2000 03 15	699	0.2−	0.3+	2000 04 13	704	0.4−	0.1+
1999 01 16	704	1.6+	0.5+	2000 03 15	699	0.2−	0.1+	2000 04 13	704	0.0	0.6−
1999 01 16	704	1.8−	0.4+	2000 03 29	704	0.2+	0.2+	2000 04 13	704	0.6−	0.3+
2000 01 08	704	0.6−	1.9−	2000 03 29	704	0.1+	0.3+	2000 04 13	704	0.4+	0.2+
2000 01 08	704	0.5−	1.8−	2000 03 29	704	0.6+	0.2+				
2000 01 08	704	0.1−	0.4−	2000 03 29	704	0.3+	0.3−				

2000 EC₁₀₅ = 1999 CU₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.09340		(2000.0)	P		Q	
<i>n</i>	0.17412324	ω	298.29838	+0.98273785		+0.03556009	
<i>a</i>	3.1761297	Ω	60.18571	+0.05790758		+0.87291509	
<i>e</i>	0.0668776	<i>i</i>	12.07839	−0.17570721		+0.48657448	
<i>P</i>	5.66	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 10 29	704	0.5+	1.7−	1997 11 06	704	(4.8−	1.1−)	2000 03 15	699	0.8−	0.4−
1997 10 29	704	1.0+	0.9−	1997 11 06	704	(4.4−	1.4−)	2000 03 15	699	1.2−	0.1−
1997 10 29	704	1.6+	0.1−	1997 11 06	704	(4.7−	0.8−)	2000 03 15	699	0.3−	0.1+
1997 10 29	704	0.3+	0.2+	1997 11 06	704	(5.2−	0.7−)	2000 03 15	699	0.8−	0.0
1997 10 29	704	0.6+	1.1−	1998 12 21	704	(0.4+	2.9−)	2000 03 29	704	0.3+	0.2−
1997 10 30	704	(0.3+	2.4−)	1998 12 21	704	0.1+	0.5−	2000 03 29	704	0.2−	0.2−
1997 10 30	704	(0.3−	2.2−)	1998 12 21	704	1.8+	0.0	2000 03 29	704	0.1−	0.9−
1997 10 30	704	(1.1+	2.3−)	1998 12 21	704	0.2+	1.3−	2000 03 29	704	0.2−	0.3−
1997 10 30	704	(0.4−	2.2−)	1998 12 21	704	0.1+	1.0+	2000 03 29	704	0.3+	0.4−
1997 10 30	704	(0.2−	2.7−)	1999 02 10	704	0.8−	0.8+	2000 04 03	704	0.1+	0.1−
1997 10 31	704	(3.3−	2.2+)	1999 02 10	704	0.7−	1.3+	2000 04 03	704	0.3+	0.6+
1997 10 31	704	(3.3−	3.2+)	1999 02 10	704	0.7+	1.0+	2000 04 03	704	0.0	0.1+
1997 10 31	704	(3.7−	3.3+)	1999 02 10	704	1.3−	0.8+	2000 04 03	704	0.1+	0.0
1997 10 31	704	(4.0−	3.1+)	1999 02 13	704	1.5−	1.5−	2000 04 03	704	0.1+	0.6−
1997 10 31	704	(3.2−	3.8+)	1999 02 13	704	(1.9+	2.7−)	2000 04 08	704	0.4+	0.7−
1997 11 03	704	0.8−	0.1−	1999 02 13	704	1.2+	1.2+	2000 04 08	704	0.5−	0.3−
1997 11 03	704	0.2−	0.5+	2000 03 11	699	0.3−	0.3−	2000 04 08	704	0.3+	0.4+
1997 11 03	704	(2.9−	0.5+)	2000 03 11	699	0.2+	0.6−	2000 04 08	704	0.9+	0.0
1997 11 03	704	0.9−	0.4−	2000 03 11	699	1.6−	0.4−	2000 04 08	704	0.3+	0.7+
1997 11 06	704	(4.8−	0.2+)	2000 03 11	699	0.2+	0.9−				

2000 EO₁₀₅ = 1998 XE₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	301.08897		(2000.0)	P		Q	
<i>n</i>	0.19089933	ω	183.99063	−0.37722268		+0.91056240	
<i>a</i>	2.9872147	Ω	63.91672	−0.84440536		−0.26318798	
<i>e</i>	0.0531620	<i>i</i>	10.84911	−0.38037171		−0.31876042	
<i>P</i>	5.16	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 14	704	(2.8−	0.5−)	2000 01 08	704	0.5−	0.3+	2000 03 15	699	0.1+	0.4+
1998 12 14	704	0.3+	0.8−	2000 01 08	704	0.3−	0.7−	2000 03 15	699	0.2+	0.2+
1998 12 14	704	1.2−	0.4−	2000 01 08	704	0.2+	0.6+	2000 03 29	704	0.2+	0.0
1998 12 14	704	(2.7−	2.3−)	2000 01 08	704	0.7+	0.5+	2000 03 29	704	0.1−	0.0
1998 12 17	704	0.6+	0.3+	2000 03 11	699	0.3−	0.1+	2000 03 29	704	0.2+	0.3−
1998 12 17	704	0.8+	1.2−	2000 03 11	699	0.1+	0.5+	2000 03 29	704	0.3−	0.9−
1998 12 17	704	0.9+	0.3−	2000 03 11	699	0.6−	0.1+	2000 03 29	704	0.0	0.0
1998 12 17	704	(0.8−	2.5−)	2000 03 11	699	0.3−	0.0	2000 04 05	704	0.3+	0.2−
1999 01 16	704	0.1−	0.1+	2000 03 12	703	0.5−	0.1−	2000 04 05	704	0.1−	0.3−
1999 01 16	704	0.1−	0.4+	2000 03 12	703	0.1+	0.2−	2000 04 05	704	0.0	0.2−
1999 01 16	704	0.7−	1.2+	2000 03 12	703	0.1−	0.4−	2000 04 05	704	0.2−	0.2−
1999 01 16	704	0.5−	0.3+	2000 03 12	703	0.4+	0.1−	2000 04 05	704	0.2+	0.5−
1999 01 16	704	(3.5−	1.6+)	2000 03 15	699	0.1+	0.4+				
2000 01 08	704	0.1+	1.0+	2000 03 15	699	0.4+	0.5+				

2000 EP₁₀₅ = 1996 FQ₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	338.94745		(2000.0)	P		Q	
<i>n</i>	0.23665821	ω	171.29489	−0.90429386		+0.40073193	
<i>a</i>	2.5885407	Ω	33.56839	−0.40596114		−0.70050398	
<i>e</i>	0.0555974	<i>i</i>	15.43881	−0.13209151		−0.59051511	
<i>P</i>	4.16	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 24	809	0.2+	1.3−	2000 03 11	699	0.2+	0.1−	2000 03 29	704	0.5+	0.1+
1996 03 24	809	1.4−	1.2−	2000 03 11	699	0.8−	0.2+	2000 03 29	704	0.4+	0.4+
1996 03 24	809	0.4−	1.2−	2000 03 15	699	0.2−	0.2−	2000 03 29	704	1.3+	0.7+
1996 03 26	809	1.7+	1.3+	2000 03 15	699	0.3−	0.2−	2000 04 05	704	0.3−	0.5−
1996 03 26	809	0.2−	0.9+	2000 03 15	699	0.4−	0.4−	2000 04 05	704	0.9−	0.2+
1996 03 26	809	0.1+	1.5+	2000 03 15	699	0.8+	0.5+	2000 04 05	704	0.2+	0.5−
2000 03 11	699	0.0	0.1+	2000 03 29	704	0.4+	0.5−				
2000 03 11	699	0.4−	0.4+	2000 03 29	704	0.4−	0.0				

2000 APR. 18

M.P.C. 40185

2000 ER₁₀₅ = 1997 LE₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.97584		(2000.0)	P		Q	
<i>n</i>	0.29671272	ω	12.81560	-0.34730574	-0.93004934		
<i>a</i>	2.2262740	Ω	97.60576	+0.84934103	-0.36619501		
<i>e</i>	0.1196874	<i>i</i>	6.95041	+0.39749029	-0.03015677		
<i>P</i>	3.32	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5
Residuals in seconds of arc							
1997 05 04	809	1.0- 1.2-	2000 03 11	699	0.3- 0.6-	2000 03 29	704 0.5+ 0.1-
1997 05 04	809	(2.8- 2.8-)	2000 03 11	699	0.8- 0.1+	2000 03 29	704 0.2+ 0.3-
1997 05 04	809	(3.5- 3.5-)	2000 03 11	699	1.1- 0.4+	2000 03 29	704 0.3+ 0.2-
1997 05 31	691	1.5- 1.2-	2000 03 11	699	1.0- 0.3-	2000 03 29	704 0.1- 0.7-
1997 05 31	691	1.0- 1.1-	2000 03 12	703	0.8- 1.3-	2000 03 29	704 0.3- 0.1+
1997 05 31	691	1.3- 1.2-	2000 03 12	703	0.4+ 0.1-	2000 04 05	704 0.6+ 0.1+
1997 06 08	809	0.4+ 0.8+	2000 03 12	703	0.1+ 0.6+	2000 04 05	704 0.5+ 0.5-
1997 06 08	809	0.3+ 0.6+	2000 03 12	703	0.5- 0.4+	2000 04 05	704 0.1+ 0.1-
1997 06 08	809	0.1+ 0.4+	2000 03 15	699	0.7+ 0.7+	2000 04 05	704 0.6+ 0.0
1997 06 09	809	1.6+ 1.6+	2000 03 15	699	0.1+ 0.6+	2000 04 05	704 0.6+ 0.5+
1997 06 09	809	1.5+ 0.3+	2000 03 15	699	0.2+ 0.5+		
1997 06 09	809	0.9+ 0.5+	2000 03 15	699	0.1+ 0.7+		

2000 ES₁₀₅ = 1987 VY = 1987 WT₄ = 1998 VA₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.99187		(2000.0)	P		Q					
<i>n</i>	0.26614731	ω	353.21056	+0.60514642	-0.78292264						
<i>a</i>	2.3936170	Ω	59.44636	+0.73807555	+0.48378324						
<i>e</i>	0.1688950	<i>i</i>	9.64807	+0.29839955	+0.39113414						
<i>P</i>	3.70	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
1987 11 15	046	0.5-	0.6-	1998 11 11	704	0.1-	0.4-	2000 03 15	699	1.2-	0.1-
1987 11 15	046	0.2+	1.3+	1998 11 11	704	0.3+	0.4+	2000 03 15	699	0.9-	0.1+
1987 11 26	046	0.3-	1.5-	2000 03 11	699	0.2+	0.5-	2000 03 29	704	0.2-	0.2-
1987 11 27	046	0.5+	1.0+	2000 03 11	699	0.2-	0.2+	2000 03 29	704	0.4+	0.8+
1998 11 10	704	0.0	0.0	2000 03 11	699	0.6+	0.4-	2000 03 29	704	0.0	0.4-
1998 11 10	704	0.0	0.1-	2000 03 11	699	0.3+	0.5+	2000 03 29	704	0.1+	0.2-
1998 11 10	704	0.2+	0.0	2000 03 12	703	0.2+	0.3+	2000 03 29	704	0.5+	0.3-
1998 11 10	704	0.5-	0.3-	2000 03 12	703	0.3+	0.0	2000 04 05	704	0.4+	0.3-
1998 11 10	704	0.2+	0.5-	2000 03 12	703	0.3-	0.2-	2000 04 05	704	0.3+	0.7+
1998 11 11	704	0.7+	0.8+	2000 03 12	703	0.7+	0.2+	2000 04 05	704	0.2+	0.3-
1998 11 11	704	0.8-	0.1+	2000 03 15	699	(2.4-	0.2+)	2000 04 05	704	0.5+	0.0
1998 11 11	704	0.0	0.4-	2000 03 15	699	1.3-	0.0	2000 04 05	704	0.4-	0.1-

2000 EC₁₀₆ = 1990 US₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	218.29261		(2000.0)	P			Q				
<i>n</i>	0.26097528	ω	217.52980	+0.90474957			+0.41206328				
<i>a</i>	2.4251381	Ω	117.80613	-0.35526222			+0.86971120				
<i>e</i>	0.1876083	<i>i</i>	7.00358	-0.23498293			+0.27167310				
<i>P</i>	3.78	<i>H</i>	14.5	<i>G</i>	0.15		<i>U</i>	2			
Residuals in seconds of arc											
1990 10 20	413	0.8-	1.2+	2000 03 11	699	0.1+	0.7-	2000 03 29	704	0.0	0.1+
1990 10 20	413	1.2+	0.4+	2000 03 11	699	0.2+	1.4+	2000 03 29	704	0.9+	0.7+
1990 10 27	413	1.1-	0.4+	2000 03 12	703	0.5-	0.4-	2000 03 29	704	0.1-	0.5+
1997 07 11	292	(0.3+	2.6+)	2000 03 12	703	1.0+	0.1-	2000 04 05	704	0.3-	0.1+
1997 07 11	292	0.3+	0.2+	2000 03 12	703	0.7-	0.2+	2000 04 05	704	0.9+	0.1+
1997 07 11	292	0.4-	0.9-	2000 03 12	703	0.4-	0.2-	2000 04 05	704	0.8+	0.4+
1998 12 15	704	0.7+	1.4-	2000 03 15	699	0.2-	0.3+	2000 04 05	704	0.5+	0.3+
1998 12 15	704	(2.6+	0.2+)	2000 03 15	699	1.4-	0.0	2000 04 08	704	0.1-	0.7-
1998 12 15	704	0.6-	0.7-	2000 03 15	699	0.8-	0.0	2000 04 08	704	0.3-	0.6+
1998 12 15	704	(4.5-	1.9-)	2000 03 15	699	1.0-	0.0	2000 04 08	704	0.8+	0.9-
2000 03 11	699	0.7+	0.1-	2000 03 29	704	0.0	0.7-	2000 04 08	704	0.9+	0.1+
2000 03 11	699	0.1-	0.4+	2000 03 29	704	0.7-	0.2+				

2000 EE₁₀₆ = 1998 YB₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	321.65002		(2000.0)	P		Q					
<i>n</i>	0.23569556	ω	71.58220	-0.66452476		+0.74077762					
<i>a</i>	2.5955842	Ω	155.89323	-0.74363111		-0.64259557					
<i>e</i>	0.1229066	<i>i</i>	13.92072	-0.07361811		-0.19575354					
<i>P</i>	4.18	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3				
Residuals in seconds of arc											
1997 08 05	327	0.1+	0.1+	2000 03 11	699	0.1-	0.1-	2000 03 29	704	0.4+	0.2+
1997 08 05	327	0.0	0.2+	2000 03 11	699	0.2-	0.1+	2000 03 29	704	0.1+	0.3-
1997 08 05	327	0.2-	0.2+	2000 03 12	703	0.3+	0.2+	2000 03 29	704	0.4+	0.2+
1998 12 19	704	0.2+	0.3-	2000 03 12	703	0.0	0.4+	2000 04 03	704	1.2-	1.3-
1998 12 19	704	1.0+	0.0	2000 03 12	703	0.4+	0.1-	2000 04 03	704	1.8-	0.3+
1998 12 19	704	0.1+	0.9-	2000 03 12	703	0.3-	0.2+	2000 04 03	704	0.0	0.1+
1998 12 19	704	1.8+	0.1+	2000 03 15	699	0.7-	0.2+	2000 04 03	704	0.3-	0.1-
1998 12 19	704	0.4+	0.7+	2000 03 15	699	0.1-	0.1+	2000 04 03	704	0.5-	0.2-
1998 12 22	704	0.8-	0.2-	2000 03 15	699	0.6-	0.2-	2000 04 08	704	0.0	0.2-
1998 12 22	704	0.7-	0.3-	2000 03 15	699	0.1+	0.1+	2000 04 08	704	0.7+	0.5-
1998 12 22	704	0.5-	1.7+	2000 03 17	704	(2.2+	2.7-)	2000 04 08	704	0.6+	0.4+
1998 12 22	704	1.5-	0.4-	2000 03 17	704	0.0	0.7-	2000 04 08	704	0.6+	0.4+
2000 02 06	704	0.5+	0.4-	2000 03 17	704	0.1+	0.2-	2000 04 08	704	0.6+	0.8+
2000 02 06	704	0.4+	0.3+	2000 03 17	704	0.6+	0.8+	2000 04 13	704	0.2+	0.9-
2000 02 06	704	0.1+	1.0-	2000 03 17	704	0.2-	0.6+	2000 04 13	704	0.2-	0.1-
2000 03 11	699	0.3-	0.3+	2000 03 29	704	0.5+	0.1+	2000 04 13	704	0.2+	0.0
2000 03 11	699	0.1+	0.1+	2000 03 29	704	0.3+	0.8+				

2000 EL₁₀₆ = 1998 WA₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	323.31077		(2000.0)	P			Q			
<i>n</i>	0.27624256	ω	199.47568	−0.83796540			+0.54557539			
<i>a</i>	2.3349396	Ω	13.61045	−0.49325693			−0.74723457			
<i>e</i>	0.1355036	<i>i</i>	3.09562	−0.23347718			−0.37945750			
<i>P</i>	3.57	<i>H</i>	15.6	<i>G</i>	0.15		<i>U</i>	5		
Residuals in seconds of arc										
1998 11 17	691	0.8−	0.2+	2000 03 03	704	0.6−	0.2−	2000 03 15	461	1.5+ 1.0+
1998 11 17	691	0.6−	0.5−	2000 03 03	704	0.3+	1.0−	2000 03 15	461	(3.0+ 1.7+)
1998 11 19	691	0.5+	0.1−	2000 03 11	704	0.0	0.2−	2000 04 05	704	0.0 0.1−
1998 11 19	691	0.3+ 0.2+		2000 03 11	704	1.1+ 0.2+		2000 04 05	704	0.5+ 0.9−
1998 11 19	691	0.4+ 0.3+		2000 03 11	704	0.5+ 0.3−		2000 04 05	704	0.0 0.2−
2000 02 26	703	1.1− 0.3−		2000 03 13	461	1.1− 0.2−		2000 04 05	704	0.9+ 0.2−
2000 02 26	703	0.4+ 0.1−		2000 03 13	461	0.5− 0.3−		2000 04 05	704	0.2− 0.1+
2000 02 26	703	0.8− 0.2+		2000 03 13	461	1.1− 0.3−		2000 04 05	704	1.2− 0.2−
2000 02 26	703	0.4− 0.2+		2000 03 15	461	1.9+ 0.8+		2000 04 05	704	1.0− 0.4+
2000 03 03	704	0.8− 0.0		2000 03 15	461	2.0+ 1.2+		2000 04 05	704	0.6− 0.5+

2000 EP₁₀₆ = 1993 RV₉ = 1996 CM

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	297.75998		(2000.0)			P		Q			
n	0.23703922	ω	248.85342			-0.52509182		+0.84987424			
a	2.5857661	Ω	349.13492			-0.66621889		-0.44312426			
e	0.1472227	i	13.69767			-0.52955735		-0.28522739			
P	4.16	H	13.3		G	0.15		U	1		
Residuals in seconds of arc											
1993 09 14	809	(3.1+	4.0+)	2000 02 04	704	0.4+	0.2+	2000 03 22	049	1.3+	0.2-
1993 09 14	809	(1.4+	3.3+)	2000 02 04	704	0.4+	0.3-	2000 03 23	049	1.6+	0.2-
1993 09 14	809	(1.4+	3.1+)	2000 02 04	704	0.2-	0.4+	2000 03 23	049	1.9+	0.5-
1993 09 15	691	0.3+	0.4+	2000 02 04	704	0.4+	0.1+	2000 03 23	049	1.7+	0.4-
1993 09 15	691	0.1+	0.6+	2000 02 11	704	0.5-	0.3-	2000 03 24	049	0.2+	0.3-
1993 09 15	691	0.1+	0.5+	2000 02 11	704	0.0	0.0	2000 03 24	049	0.0	0.3-
1993 09 19	809	(1.9-	4.1+)	2000 02 11	704	0.0	0.1+	2000 03 24	049	0.2+	0.1-
1993 09 19	809	(0.4-	3.6+)	2000 02 11	704	0.5-	0.9+	2000 03 27	049	0.4+	0.1-
1993 09 19	809	(1.4-	3.2+)	2000 02 11	704	0.3-	0.2+	2000 03 27	049	0.2+	0.2-

1996 02 02	327	0.3−	0.2+	2000 03 03	608	0.7−	1.2−	2000 03 27	049	0.4+	0.2−
1996 02 02	327	0.4−	0.2−	2000 03 03	608	0.1−	1.1−	2000 03 29	049	0.5+	0.2−
1996 02 02	327	0.3−	0.2−	2000 03 03	608	0.5−	0.0	2000 03 29	049	0.5+	0.3−
1996 02 03	327	0.4+	0.0	2000 03 08	608	0.2+	0.2−	2000 03 29	049	0.3+	0.1−
1996 02 03	327	0.4+	0.4−	2000 03 08	608	0.0	0.0	2000 04 03	704	0.4−	0.3+
1996 02 03	327	0.8+	0.5−	2000 03 08	608	0.1+	0.2−	2000 04 03	704	0.8−	0.2+
1996 02 03	327	0.5+	0.4−	2000 03 11	699	0.4−	0.3+	2000 04 03	704	0.4−	0.3+
1996 03 05	608	0.1−	0.2+	2000 03 11	699	0.5−	0.2+	2000 04 03	704	0.8−	0.5+
1996 03 05	608	0.4−	0.7+	2000 03 11	704	0.2−	0.3+	2000 04 03	704	0.8−	1.1+
1996 03 24	566	0.9−	0.3−	2000 03 11	704	0.1−	0.4+	2000 04 04	699	0.1−	0.3+
1996 03 24	566	0.9−	0.6−	2000 03 11	699	0.3−	0.4+	2000 04 04	699	0.4−	0.1+
1996 03 24	566	1.1−	0.6−	2000 03 11	704	0.6−	0.4+	2000 04 04	699	0.4−	0.1+
1997 10 23	327	0.1−	1.3+	2000 03 11	704	0.4−	0.4+	2000 04 04	699	0.5−	0.2+
1997 10 23	327	0.7−	0.4+	2000 03 11	699	0.7−	0.2+	2000 04 08	704	0.0	0.9+
1997 10 23	327	0.6−	1.1−	2000 03 11	704	0.3−	0.6+	2000 04 08	704	0.5+	1.1+
1998 11 16	704	(0.2+	3.0−)	2000 03 11	049	0.5+	0.3−	2000 04 08	704	0.2+	0.2+
1998 11 16	704	0.2−	0.1−	2000 03 11	049	0.6+	0.3−	2000 04 08	704	0.2+	0.4+
1998 11 16	704	0.8−	0.7−	2000 03 11	049	0.6+	0.3−	2000 04 08	704	0.0	0.3−
1998 11 16	704	0.0	0.3−	2000 03 15	049	0.2−	0.2+	2000 04 10	704	0.0	0.0
2000 01 07	704	0.6−	0.7+	2000 03 15	049	0.3−	0.1+	2000 04 10	704	0.1−	0.5+
2000 01 07	704	0.6+	0.3+	2000 03 15	049	0.1−	0.2+	2000 04 10	704	0.2−	0.6+
2000 01 07	704	0.4−	1.0−	2000 03 22	049	1.2+	0.1−	2000 04 10	704	0.5−	0.2+
2000 01 07	704	1.8+	1.0−	2000 03 22	049	1.1+	0.1−				

2000 EX₁₀₆ = 1994 BX₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	236.26513	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.84937110	ω	186.40173	+0.79767766	+0.59154389	
<i>a</i>	1.1042593	Ω	136.61440	−0.54546125	+0.79070632	
<i>e</i>	0.2760684	<i>i</i>	9.84206	−0.25725935	+0.15766846	
<i>P</i>	1.16	<i>H</i>	17.7	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1994 01 30	010	0.9+	1.0+	2000 03 22	046	0.1−	0.1−	2000 04 14	860	0.9−	1.5−
1994 01 30	010	0.4−	0.1+	2000 03 22	046	0.5+	0.1+	2000 04 14	860	0.7+	0.3+
1994 01 31	010	0.3+	0.7+	2000 03 23	850	(0.3−	2.2+)	2000 04 14	557	0.3−	0.4+
1994 01 31	010	0.2−	1.7−	2000 03 23	850	0.5+	0.2−	2000 04 14	557	0.1−	0.2+
1994 01 31	010	0.6−	0.3−	2000 03 23	850	1.0+	0.7+	2000 04 14	557	0.0	0.2−
2000 03 14	703	0.8−	0.1+	2000 03 23	850	0.2+	0.1−	2000 04 14	118	0.4−	0.3+
2000 03 14	703	0.1−	0.3+	2000 03 23	670	1.7−	0.7+	2000 04 14	118	0.3−	0.3+
2000 03 14	703	0.5+	0.3+	2000 03 23	670	0.1+	0.2−	2000 04 15	557	0.0	0.2−
2000 03 14	703	(4.0+	0.4−)	2000 04 04	704	0.3−	0.2+	2000 04 15	557	0.2−	0.1−
2000 03 15	651	0.3−	0.6−	2000 04 04	704	0.0	0.1+	2000 04 15	557	0.2−	0.2−
2000 03 15	651	0.5−	0.6−	2000 04 04	704	0.2+	0.0	2000 04 15	739	0.6+	0.4−
2000 03 15	651	0.2−	0.5−	2000 04 04	704	0.2+	0.5+	2000 04 15	739	0.0	0.5−
2000 03 15	422	0.3−	0.3−	2000 04 04	704	0.3+	0.2+	2000 04 15	739	0.8+	0.3+
2000 03 15	422	0.4−	0.4−	2000 04 07	118	0.1−	0.3−	2000 04 16	704	0.1+	0.0
2000 03 15	422	0.1−	0.3−	2000 04 07	118	0.4−	0.5−	2000 04 16	704	0.1−	0.1−
2000 03 18	670	0.7−	1.8+	2000 04 08	739	0.3+	0.6−	2000 04 16	704	0.1+	0.3+
2000 03 18	670	1.4+	0.3−	2000 04 08	739	0.0	0.5−	2000 04 16	704	0.0	0.3+
2000 03 18	670	0.4+	1.2+	2000 04 08	739	0.3+	0.3−	2000 04 16	704	0.0	0.6+
2000 03 19	670	0.6+	0.0	2000 04 08	402	0.1−	0.4−	2000 04 16	557	0.4+	0.5+
2000 03 19	670	1.0+	1.2+	2000 04 08	402	0.0	0.5−	2000 04 16	557	0.1+	0.4−
2000 03 19	670	1.1+	0.0	2000 04 08	402	0.0	0.3−	2000 04 16	557	0.0	0.7+
2000 03 20	402	0.7−	0.1−	2000 04 12	360	0.3−	0.2−	2000 04 16	557	0.1+	1.0+
2000 03 20	402	0.5−	0.3−	2000 04 12	360	0.3−	0.2−	2000 04 16	557	0.2−	0.3+
2000 03 20	402	0.5−	0.5−	2000 04 12	360	0.3−	0.3−	2000 04 18	118	0.1+	0.7−
2000 03 20	402	0.1−	0.6−	2000 04 14	118	0.0	0.4+	2000 04 18	118	0.2+	0.2−
2000 03 22	046	0.6−	0.6+	2000 04 14	118	0.1−	0.1+				
2000 03 22	046	0.3+	0.2−	2000 04 14	118	0.2−	0.1+				

2000 EP₁₀₇ = 1991 DP₂ = 1998 XF₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.59773	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21359264	ω	227.38216	−0.50609803	+0.86189958	
<i>a</i>	2.7716934	Ω	12.32792	−0.74177864	−0.41633311	
<i>e</i>	0.0870348	<i>i</i>	8.49127	−0.44003322	−0.28947513	
<i>P</i>	4.61	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1991 02 23	889	(13.0+	10.3−)	2000 02 03	704	0.5+	0.2+	2000 03 11	699	0.6−	0.0
1991 02 23	889	(15.4+	11.7−)	2000 02 03	704	0.5+	0.1+	2000 03 11	699	0.5−	0.4+
1998 11 16	704	0.6−	1.0+	2000 02 03	704	0.2+	0.2+	2000 03 11	699	0.4−	0.4+
1998 11 16	704	0.7+	1.5−	2000 02 06	703	0.4−	0.1+	2000 03 11	699	0.4−	0.1+
1998 11 16	704	1.6+	1.4−	2000 02 06	703	0.0	0.1+	2000 03 12	704	0.2−	1.1−
1998 11 16	704	0.3+	1.1+	2000 02 06	703	0.4−	0.2+	2000 03 12	704	0.4−	0.8−
1998 11 16	704	1.1−	0.2+	2000 02 06	703	0.2−	0.7+	2000 03 12	704	0.2−	1.3−
1998 12 14	704	0.9−	0.5+	2000 02 11	704	0.1−	0.5+	2000 03 12	704	0.2−	0.9−
1998 12 14	704	0.6−	0.2+	2000 02 11	704	0.0	1.0+	2000 03 12	704	0.3−	0.7−
1998 12 14	704	0.6−	0.5+	2000 02 11	704	0.1−	0.6+	2000 04 03	699	0.1−	0.9−
1998 12 14	704	(2.2−	1.9+)	2000 02 11	704	0.0	0.8+	2000 04 03	699	0.5+	0.0
1998 12 17	704	0.1−	0.4+	2000 02 11	704	0.0	0.7+	2000 04 03	699	1.1+	0.1+
1998 12 17	704	0.2+	0.7−	2000 03 05	704	0.1+	0.1−	2000 04 03	699	0.9+	0.2+
1998 12 17	704	0.6+	0.4+	2000 03 05	704	0.5−	0.1+	2000 04 04	704	0.4+	0.4+
1998 12 17	704	0.5+	0.5−	2000 03 05	704	0.0	0.1+	2000 04 04	704	0.1+	0.3−
1998 12 17	704	0.3+	0.9−	2000 03 05	704	(2.0+	0.2+)	2000 04 04	704	0.2+	0.1−
1999 12 15	704	0.4+	0.8−	2000 03 08	704	0.1−	0.1+	2000 04 04	704	0.8+	1.7−
1999 12 15	704	0.7−	0.5−	2000 03 08	704	0.2+	0.5+	2000 04 04	704	0.3−	0.5−
1999 12 15	704	1.4+	0.2−	2000 03 08	704	0.2−	0.5+	2000 04 10	704	0.2+	0.3−
2000 02 03	704	0.3+	0.1+	2000 03 08	704	(2.2−	0.0)	2000 04 10	704	1.2−	1.0+
2000 02 03	704	0.4+	0.2−	2000 03 08	704	0.3+	0.8+	2000 04 10	704	0.7−	0.5−

2000 EV₁₀₇ = 1987 BD₃ = 1994 WA₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	159.42253	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.23884440	ω	85.34649	+0.97357531	+0.15575046	
<i>a</i>	2.5727209	Ω	265.62689	−0.20936947	+0.90079428	
<i>e</i>	0.1831130	<i>i</i>	9.64246	+0.09118958	+0.40535351	
<i>P</i>	4.13	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>

Residuals in seconds of arc

1987 01 30	010	1.7+	0.5−	1998 08 28	704	0.2+	0.6+	2000 02 08	704	0.2+	0.9+
1987 01 30	010	0.5−	1.2−	1999 12 14	704	1.2−	0.6−	2000 02 13	704	(2.4−	0.9−)
1987 01 30	010	1.3−	1.2−	1999 12 14	704	1.1−	1.7−	2000 02 13	704	0.6−	1.7+
1994 11 27	010	1.2−	0.1+	1999 12 14	704	0.4+	0.0	2000 02 13	704	0.6−	1.8+
1994 11 27	010	0.1−	0.0	1999 12 14	704	0.5−	1.4−	2000 03 08	704	0.3+	0.1−
1994 11 28	010	0.8−	0.6+	2000 02 07	703	1.2−	0.4−	2000 03 08	704	0.1+	0.3+
1994 11 28	010	0.9+	0.4+	2000 02 07	703	0.3−	0.4−	2000 03 08	704	0.7−	0.5−
1994 11 28	010	0.2+	0.5+	2000 02 07	703	0.0	0.3+	2000 03 08	704	0.3+	0.8+
1994 11 29	010	0.1+	0.5+	2000 02 07	703	0.3+	0.1+	2000 03 08	704	0.1−	0.7+
1998 08 28	704	0.5+	1.4−	2000 02 08	704	0.4+	0.4−	2000 03 13	704	0.4+	0.3−
1998 08 28	704	0.5+	0.2+	2000 02 08	704	0.2+	0.4+	2000 03 13	704	1.5+	0.2−
1998 08 28	704	0.8−	1.3+	2000 02 08	704	0.8+	0.8+	2000 03 13	704	1.3+	0.4+
1998 08 28	704	0.6+	0.1+	2000 02 08	704	1.0+	0.5−	2000 03 13	704	0.3−	0.7−

2000 APR. 18

M.P.C. 40187

1997 06 07	809	0.2−	0.8+	2000 03 11	699	0.1−	1.0+	2000 03 29	704	0.6−	0.6−
1997 06 07	809	0.9+	0.5−	2000 03 11	699	0.2−	1.2+	2000 03 29	704	0.5−	0.4−
1997 06 08	809	0.3−	1.2+	2000 03 11	699	0.4−	0.6+	2000 04 05	704	0.1−	0.0
1997 06 08	809	0.1−	0.5+	2000 03 12	703	0.4−	0.1+	2000 04 05	704	0.0	0.2−
1997 06 08	809	(2.4−	0.9+)	2000 03 12	703	0.5−	0.3+	2000 04 05	704	0.0	0.3−
2000 03 08	704	0.9+	0.1−	2000 03 12	703	0.7+	0.4−	2000 04 05	704	0.1+	0.1+
2000 03 08	704	0.8+	0.1−	2000 03 12	703	1.5+	0.9+	2000 04 05	704	0.3+	1.3−
2000 03 08	704	0.2+	0.4−	2000 03 29	704	0.4−	0.5−				

2000 EF₁₀₈ = 1984 YY₅ = 1987 QU₈ = 1995 DH₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	295.84339		(2000.0)	P	Q		
<i>n</i>	0.21380589	ω	114.55394	−0.13852018	+0.98610780		
<i>a</i>	2.7698501	Ω	147.07391	−0.95868987	−0.11029396		
<i>e</i>	0.1132251	<i>i</i>	9.70935	−0.24844696	−0.12420406		
<i>P</i>	4.61	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1984 12 22	033	0.3−	0.6+	1999 01 20	704	0.7+	0.2+	2000 03 11	699	0.1+	0.1+
1984 12 22	033	1.1−	0.5+	1999 01 20	704	0.2+	0.3−	2000 03 29	704	0.0	0.4+
1987 08 20	010	1.0−	1.0−	1999 01 20	704	(2.5+	0.9−)	2000 03 29	704	0.1−	0.0
1987 08 20	010	1.1+	0.1+	1999 01 20	704	0.1+	0.5−	2000 03 29	704	0.1−	0.1+
1992 09 20	808	(2.6+	3.2−)	1999 01 20	704	0.6−	1.2−	2000 03 29	704	0.1−	0.4−
1992 09 20	808	(6.5−	5.4−)	2000 01 13	699	0.0	0.7+	2000 04 05	704	0.3−	0.0
1992 09 30	808	(2.0+	1.7+)	2000 01 13	699	1.1−	0.1+	2000 04 05	704	0.1−	0.3+
1992 09 30	808	0.9+	1.8+	2000 01 13	699	0.4−	0.4+	2000 04 05	704	0.2+	0.1−
1995 02 22	033	0.4+	0.5+	2000 03 05	608	0.3−	1.0−	2000 04 05	704	0.1−	0.5+
1995 02 23	033	0.6+	0.2−	2000 03 05	608	0.1−	0.9−	2000 04 05	704	0.9+	0.4−
1995 02 24	033	0.3+	0.0	2000 03 05	608	0.0	1.3−	2000 04 06	608	0.9+	0.8−
1997 10 29	566	0.8−	0.7+	2000 03 08	704	0.5+	0.4−	2000 04 06	608	0.8+	0.7−
1997 10 29	566	0.7−	0.7+	2000 03 08	704	0.4+	1.7+	2000 04 06	608	0.8+	1.4−
1997 10 29	566	0.7−	0.7+	2000 03 08	704	0.1+	0.6+	2000 04 13	704	0.1+	0.5+
1998 12 15	704	0.6+	0.9−	2000 03 08	704	1.4−	2.0+	2000 04 13	704	0.5−	0.0
1998 12 15	704	0.4+	0.2−	2000 03 08	704	1.5−	1.7+	2000 04 13	704	0.4−	0.3+
1998 12 15	704	0.2−	0.9+	2000 03 11	699	0.4+	0.4+	2000 04 13	704	0.1+	0.6+
1998 12 15	704	0.6+	0.1+	2000 03 11	699	0.4+	0.3+	2000 04 13	704	0.3−	0.5+
1998 12 15	704	0.0	0.9−	2000 03 11	699	0.0	0.4+				

2000 EV₁₀₈ = 1989 AL₉ = 1998 XH₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	91.49317		(2000.0)	P	Q		
<i>n</i>	0.19062772	ω	83.84771	+0.50188131	−0.86484944		
<i>a</i>	2.9900516	Ω	336.01554	+0.78114642	+0.45930819		
<i>e</i>	0.2545612	<i>i</i>	1.72997	+0.37138311	+0.20266086		
<i>P</i>	5.17	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 01 11	046	(1.8+	3.4−)	1998 12 17	704	0.1+	0.1+	2000 04 05	704	0.3+	0.2−
1989 01 11	046	0.3−	1.2−	1998 12 17	704	1.3+	0.1+	2000 04 05	704	0.0	0.2+
1998 08 31	704	0.1+	0.7−	1998 12 17	704	0.5+	0.1−	2000 04 05	704	0.1+	0.3−
1998 08 31	704	(2.4−	3.2−)	1998 12 17	704	1.6+	0.3+	2000 04 05	704	0.1+	0.1+
1998 08 31	704	0.3−	1.5−	2000 03 08	691	0.5−	0.0	2000 04 05	704	0.3+	0.7+
1998 08 31	704	0.6+	0.2+	2000 03 08	691	0.6−	0.0	2000 04 07	704	0.1−	0.0
1998 11 10	704	0.9+	1.3+	2000 03 08	691	0.5−	0.0	2000 04 07	704	0.6+	1.1+
1998 11 10	704	(1.5−	2.1+)	2000 03 10	704	0.6+	0.8−	2000 04 07	704	0.7−	0.6−
1998 11 10	704	0.2+	0.1+	2000 03 10	704	0.5+	0.1+	2000 04 07	699	0.4−	0.5+
1998 11 10	704	0.3+	0.9−	2000 03 10	704	0.4+	0.3+	2000 04 07	704	0.0	0.2+
1998 12 14	704	0.6−	0.3+	2000 03 10	704	0.6+	0.2−	2000 04 07	699	0.2−	0.0
1998 12 14	704	0.5−	0.3+	2000 03 10	704	0.7+	0.2+	2000 04 07	704	0.0	0.2−
1998 12 14	704	1.2−	0.2−	2000 03 11	704	0.2−	0.7−	2000 04 07	699	0.2−	0.0
1998 12 14	704	1.5−	0.3−	2000 03 11	704	0.4−	0.2+	2000 04 07	699	0.6−	0.0
1998 12 14	704	1.2−	0.8+	2000 03 11	704	0.4+	0.4−				
1998 12 17	704	0.1−	0.1+	2000 03 11	704	(0.0	2.8+)				

2000 EX₁₀₈ = 1991 NU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	106.37690		(2000.0)	P	Q		
<i>n</i>	0.18988992	ω	281.11612	+0.24653240	−0.96573815		
<i>a</i>	2.9977916	Ω	154.16969	+0.94586425	+0.22154939		
<i>e</i>	0.0832606	<i>i</i>	10.72263	+0.21109853	+0.13515064		
<i>P</i>	5.19	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 07 10	809	1.1+	1.2−	1999 01 18	704	0.7+	1.1−	2000 03 29	704	0.1+	0.2+
1991 07 10	809	1.1+	1.1−	1999 01 18	704	0.4+	0.6−	2000 03 29	704	0.1+	0.4+
1991 07 10	809	1.4+	1.3−	1999 04 07	704	1.6−	0.4−	2000 03 29	704	0.0	0.0
1991 07 11	809	0.6+	0.3−	1999 04 07	704	1.1−	2.0−	2000 04 02	699	0.0	0.2−
1991 07 11	809	0.7+	0.3−	1999 04 07	704	0.5−	0.1+	2000 04 02	699	0.1+	0.0
1991 07 11	809	1.0+	0.2−	1999 04 07	704	0.1+	0.8−	2000 04 02	699	0.2−	0.2−
1991 07 12	809	1.3−	0.5−	1999 04 07	704	(3.7−	2.3−)	2000 04 02	699	0.2−	0.4+
1991 07 12	809	1.4−	0.4−	2000 03 08	704	0.5+	0.4+	2000 04 04	704	0.5+	0.3+
1991 07 12	809	1.2−	0.6−	2000 03 08	704	0.4+	0.1+	2000 04 04	704	0.0	0.2+
1994 01 06	675	0.9−	0.2−	2000 03 08	704	0.0	0.2+	2000 04 04	704	0.3−	0.1+
1994 01 06	675	1.0−	1.3−	2000 03 08	704	0.0	0.2+	2000 04 04	704	0.1+	0.2−
1997 09 28	566	0.0	0.6+	2000 03 08	704	0.5+	0.1+	2000 04 04	704	0.2+	0.3+
1997 09 28	566	0.7−	0.8+	2000 03 11	699	0.1+	0.1−	2000 04 08	704	0.1−	0.5+
1997 09 28	566	1.5−	0.7−	2000 03 11	699	0.2−	0.0	2000 04 08	704	0.3−	0.3+
1998 12 22	704	0.4+	0.8+	2000 03 11	699	0.3−	0.1+	2000 04 08	704	0.1+	0.4+
1998 12 22	704	0.1−	0.5+	2000 03 11	699	0.0	0.4−	2000 04 08	704	0.2+	0.7+
1998 12 22	704	0.5−	0.5+	2000 03 25	411	(2.1−	1.7−)	2000 04 08	704	0.2+	0.6+
1998 12 22	704	(4.1+	1.3+)	2000 03 25	411	0.6−	0.7−	2000 04 13	704	0.2−	0.0
1998 12 22	704	(3.0−	0.5+)	2000 03 26	411	0.1+	1.9−	2000 04 13	704	0.2−	0.2+
1999 01 18	704	1.8+	0.9−	2000 03 26	411	0.6+	1.1−	2000 04 13	704	0.5−	0.3+
1999 01 18	704	1.4+	0.4−	2000 03 29	704	0.1−	0.1−	2000 04 13	704	0.5−	0.2+
1999 01 18	704	0.7+	0.4−	2000 03 29	704	0.0	0.2+	2000 04 13	704	0.5−	0.2+

2000 EB₁₀₉ = 1998 US₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	41.00457		(2000.0)	P	Q		
<i>n</i>	0.24136164	ω	335.37004	−0.71943650	−0.69301868		
<i>a</i>	2.5548018	Ω	160.52735	+0.65802021	−0.70137799		
<i>e</i>	0.1409786	<i>i</i>	7.96963	+0.22230726	−0.16671540		
<i>P</i>	4.08	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 08 14	691	0.0	0.3−	1998 11 13	704	(0.5+ 3.1−)	2000 04 04	704	0.1+ 0.4−
1993 08 14	691	0.2+	0.5+	1998 11 13	704	(4.8− 2.2−)	2000 04 04	704	0.5− 0.1−
1993 08 14	691	0.2−	0.0	2000 02 11	704	(4.3+ 0.1+)	2000 04 04	704	0.3− 0.0
1993 10 20	691	0.2+	0.3+	2000 02 11	704	(4.6+ 1.2+)	2000 04 08	704	0.4− 0.6−
1993 10 20	691	0.1−	0.6+	2000 02 11	704	(4.5+ 0.5+)	2000 04 08	704	0.2− 0.6+
1993 10 20	691	0.2−	0.4+	2000 03 08	704	0.3+ 0.4+	2000 04 08	704	0.3− 0.6+
1998 10 18	809	0.7+	0.9+	2000 03 08	704	0.4+ 0.0	2000 04 08	704	0.1− 0.9+
1998 10 18	809	0.1+	0.0	2000 03 08	704	0.6+ 0.3+	2000 04 08	704	0.2− 1.5+
1998 10 18	809	0.9−	0.2−	2000 03 08	704	0.3+ 0.0	2000 04 13	704	0.0 0.2+
1998 10 19	809	0.1−	0.4+	2000 03 08	704	0.8+ 0.6+	2000 04 13	704	0.6− 0.0
1998 10 19	809	0.6−	0.7+	2000 03 09	691	0.7+ 0.1−	2000 04 13	704	0.6− 0.3−
1998 10 19	809	0.2+	1.6+	2000 03 09	691	0.7+ 0.1−	2000 04 13	704	0.1+ 0.7−
1998 11 13	704	0.1+	1.2−	2000 03 09	691	0.7+ 0.1−	2000 04 13	704	0.1+ 0.6+
1998 11 13	704	(1.3−	4.1−)	2000 04 04	704	0.0 0.3−			
1998 11 13	704	(1.0+	4.0−)	2000 04 04	704	0.3− 0.5−			

Residuals in seconds of arc

1998 08 24	704	0.0	0.3−	2000 01 11	704	0.7−	0.8−	2000 03 03	703	0.0	0.9+
1998 08 24	704	0.6−	1.5+	2000 01 11	704	0.1−	0.2+	2000 03 03	703	0.4−	0.0
1998 08 24	704	0.3−	1.2−	2000 02 07	703	0.6+	0.2−	2000 03 04	703	0.8−	0.7+
1998 08 24	704	0.6+	1.5−	2000 02 07	703	0.7+	0.7+	2000 03 04	703	1.7+	0.7+
1998 08 27	704	0.0	0.7+	2000 02 07	703	0.8−	0.2−	2000 03 04	703	0.1−	0.5−
1998 08 27	704	0.3−	0.1−	2000 02 07	703	0.9−	0.6+	2000 03 04	703	1.4+	0.3+
1998 08 27	704	0.1+	0.9+	2000 02 08	704	0.3+	0.4−	2000 03 08	608	0.4+	0.9−
1998 08 27	704	0.3−	0.0	2000 02 08	704	0.3+	0.7−	2000 03 08	608	0.2−	0.9−
1998 09 18	699	0.2−	1.0+	2000 02 08	704	0.3+	0.4+	2000 03 08	608	0.6+	1.1−
1998 09 18	699	0.7+	0.5−	2000 02 08	704	0.9+	1.1+	2000 03 13	704	0.2−	0.1−
1998 09 18	699	0.4+	0.6−	2000 02 08	704	0.3+	1.5+	2000 03 13	704	0.7−	0.1−
2000 01 11	704	(1.0−	2.4−)	2000 03 03	703	0.9−	0.1+	2000 03 13	704	0.5−	0.1+
2000 01 11	704	0.7−	0.7−	2000 03 03	703	0.9−	1.0−				

2000 EV₁₀₉ = 1999 CJ₁₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	219.32225	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.16138175	ω	162.20803	+0.97264085
<i>a</i>	3.3411792	Ω	184.79216	+0.97202840
<i>e</i>	0.1049390	<i>i</i>	21.21475	+0.02017695
<i>P</i>	6.11	<i>H</i>	13.0	<i>U</i>

Residuals in seconds of arc

1999 02 12	704	0.4+	0.8+	2000 03 08	691	0.3−	0.9−	2000 04 07	699	0.4−	0.1+
1999 02 12	704	0.7+	0.8−	2000 03 08	691	0.4−	0.8−	2000 04 07	699	0.1+	0.3−
1999 02 12	704	0.8−	1.0−	2000 03 08	691	0.3−	0.8−	2000 04 07	699	0.1+	0.2−
1999 02 12	704	0.2−	0.0	2000 03 12	704	0.1−	0.2−	2000 04 09	699	0.5+	0.2−
1999 02 16	704	0.1+	0.3+	2000 03 12	704	0.6+	0.8+	2000 04 09	699	0.4−	0.1+
1999 02 16	704	0.3−	0.1−	2000 03 12	704	0.7+	1.3+	2000 04 09	699	0.2−	0.3+
1999 02 16	704	1.0+	0.2+	2000 03 12	704	0.4−	0.4+	2000 04 09	699	0.3+	0.3−
1999 02 16	704	0.6−	0.1−	2000 03 12	704	0.1+	0.4+				
1999 02 16	704	0.1−	0.6+	2000 04 07	699	0.1−	0.2+				

2000 EF₁₁₀ = 1985 TM

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	166.74537	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23440356	ω	333.63453	+0.99274564
<i>a</i>	2.6051131	Ω	24.16078	+0.02489568
<i>e</i>	0.1357738	<i>i</i>	15.38556	−0.11762778
<i>P</i>	4.20	<i>H</i>	13.4	<i>U</i>

Residuals in seconds of arc

1985 10 15	688	0.4−	0.4−	2000 02 04	704	0.9−	0.1−	2000 03 26	699	0.6−	0.2−
1985 10 15	688	0.1−	0.9−	2000 02 04	704	0.3+	1.1+	2000 03 26	699	0.7−	0.1−
1985 10 20	688	1.8+	0.2−	2000 03 05	704	0.2+	0.1+	2000 03 28	704	1.2−	0.4−
1985 10 20	688	(4.9−	1.5+)	2000 03 05	704	0.5+	0.1−	2000 03 28	704	0.7−	0.7+
1992 05 01	691	1.2−	0.7−	2000 03 05	704	1.0+	0.7+	2000 03 28	704	0.6+	0.5−
1992 05 01	691	0.6−	0.7−	2000 03 05	704	0.2+	0.3+	2000 04 03	704	1.2+	0.8−
1992 05 01	691	0.6−	1.1−	2000 03 05	704	0.1+	0.7+	2000 04 03	704	0.5+	0.2−
1998 08 31	704	0.4−	0.8−	2000 03 08	608	0.4−	0.0	2000 04 03	704	1.1+	0.5−
1998 08 31	704	0.4+	0.5−	2000 03 08	608	0.6−	0.3−	2000 04 03	704	1.3+	1.2−
1998 08 31	704	0.6+	0.8−	2000 03 08	608	0.6−	0.1−	2000 04 03	704	1.2+	1.6−
1998 08 31	704	(5.6−	0.4−)	2000 03 12	704	0.1−	0.3+	2000 04 08	704	0.0	0.2+
2000 02 01	703	0.4−	0.0	2000 03 12	704	0.3−	0.0	2000 04 08	704	0.1−	0.0
2000 02 01	703	0.7+	0.3+	2000 03 12	704	0.3−	0.1+	2000 04 08	704	0.4+	0.6−
2000 02 01	703	0.4+	0.8+	2000 03 12	704	0.4+	0.3+	2000 04 08	704	0.3+	0.9−
2000 02 01	703	1.3−	0.8+	2000 03 12	704	0.2−	0.6+	2000 04 08	704	0.2−	0.5−
2000 02 04	704	0.8−	0.4−	2000 03 26	699	0.0	0.3+				
2000 02 04	704	0.2+	0.9+	2000 03 26	699	0.5−	0.3+				

2000 EO₁₁₀ = 1998 XK₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	40.22863	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.17759656	ω	90.28796	−0.50128577
<i>a</i>	3.1345824	Ω	30.07904	+0.73317621
<i>e</i>	0.1668093	<i>i</i>	7.46779	+0.45952716
<i>P</i>	5.55	<i>H</i>	13.8	<i>U</i>

Residuals in seconds of arc

1992 10 18	691	0.5−	0.2−	1998 11 21	704	1.0+	1.2+	2000 03 08	608	0.2+	0.6+
1992 10 18	691	0.8−	0.3+	1998 11 21	704	(0.1+	2.6+)	2000 03 08	608	0.2+	0.7−
1992 11 16	691	0.2+	0.7+	1998 11 21	704	(5.2−	2.3+)	2000 03 08	608	0.0	0.7−
1992 11 16	691	0.1+	0.3+	1998 11 24	704	0.4+	0.9+	2000 03 12	704	0.3−	0.3+
1992 11 16	691	0.5+	0.2+	1998 11 24	704	0.5+	0.2+	2000 03 12	704	0.0	0.0
1998 11 17	704	(1.1−	2.6+)	1998 11 24	704	0.4+	0.6−	2000 03 12	704	0.3−	0.2−
1998 11 17	704	1.2+	0.1+	1998 11 24	704	(5.8−	1.2+)	2000 03 12	704	0.3−	0.2+
1998 11 17	704	0.4−	0.5+	1998 12 14	704	0.5+	0.0	2000 03 28	704	0.1−	0.3+
1998 11 17	704	0.6+	1.7+	1998 12 14	704	0.3+	1.2−	2000 03 28	704	0.5−	0.1+
1998 11 17	704	0.7+	0.1+	1998 12 14	704	1.2−	0.5+	2000 03 28	704	0.2−	0.6+
1998 11 17	704	1.0+	0.3−	1998 12 14	704	0.2+	0.6+	2000 04 05	704	0.4−	0.1−
1998 11 17	704	0.4−	0.0	1998 12 14	704	0.8+	0.5−	2000 04 05	704	1.9−	0.7+
1998 11 17	704	0.8+	0.6−	1998 12 17	704	0.4−	1.3−	2000 04 05	704	0.3−	0.4+
1998 11 17	704	0.0	0.6−	1998 12 17	704	1.0−	0.3−	2000 04 05	704	0.8+	0.1−
1998 11 17	704	0.2−	0.7+	1998 12 17	704	1.5−	1.7−	2000 04 05	704	0.3+	0.6−
1998 11 17	704	1.4−	1.1−	1998 12 17	704	0.7+	1.6−	2000 04 10	704	0.1+	0.3+
1998 11 17	704	0.0	0.4−	1998 12 24	699	0.1−	0.9+	2000 04 10	704	0.1+	0.3+
1998 11 17	704	1.5−	0.1+	1998 12 24	699	0.1+	1.0+	2000 04 10	704	0.9+	0.3+
1998 11 17	704	0.2−	0.1−	1998 12 24	699	1.0−	1.0+	2000 04 10	704	0.0	0.2−
1998 11 17	704	0.7+	0.3−	2000 02 11	704	0.8+	0.3−	2000 04 10	704	0.4+	0.6+
1998 11 21	704	0.7−	0.5+	2000 02 11	704	0.7+	0.3−				
1998 11 21	704	0.2+	0.2+	2000 02 11	704	0.5+	0.5−				

2000 EQ₁₁₀ = 1991 EB₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	51.15673	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22310853	ω	309.29566	−0.33757341
<i>a</i>	2.6923113	Ω	160.08898	+0.91460481
<i>e</i>	0.1450972	<i>i</i>	11.90121	+0.22258086
<i>P</i>	4.42	<i>H</i>	14.0	<i>U</i>

Residuals in seconds of arc

1991 03 11	809	0.7−	0.6+	2000 03 08	608	0.1−	0.4+	2000 04 05	704	0.2+	0.3−
1991 03 11	809	0.2−	0.4+	2000 03 08	608	0.1−	0.6−	2000 04 05	704	0.5+	1.0−
1991 03 11	809	0.2+	0.3+	2000 03 08	608	0.4+	1.0−	2000 04 05	704	0.9+	0.6+
1991 03 13	809	0.1+	0.5−	2000 03 12	704	0.6−	0.3−	2000 04 05	704	0.4−	0.2+
1991 03 13	809	0.2+	0.4−	2000 03 12	704	0.2+	0.2−	2000 04 07	699	0.2+	0.2−
1991 03 13	809	0.4+	0.3−	2000 03 12	704	1.8−	0.0	2000 04 07	699	1.5+	1.4+
2000 02 08	704	0.4−	0.2+	2000 03 12	704	(2.1−	0.7−)	2000 04 07	699	0.1−	0.4+
2000 02 08	704	0.0	0.5−	2000 03 26	699	0.4−	0.4+	2000 04 07	699	0.3−	0.3+
2000 02 08	704	0.5+	0.0	2000 03 26	699	0.7−	0.3+	2000 04 08	704	1.0+	0.3−
2000 02 08	704	0.8+	0.5+	2000 03 26	699	0.8−	0.6+	2000 04 08	704	0.0	0.5+
2000 02 08	704	0.3+	1.1+	2000 03 26	699	0.5−	0.2+	2000 04 08	704	0.0	0.0
2000 02 27	703	0.3−	0.3+	2000 03 28	704	0.2+	0.3−	2000 04 08	704	0.1+	0.3−
2000 02 27	703	0.1+	0.7−	2000 03 28	704	0.6−	0.0	2000 04 08	704	0.5+	0.7−
2000 02 27	703	0.9+	0.2−	2000 03 28	704	0.6−	0.5−				
2000 02 27	703	0.6−	0.3−	2000 04 05	704	0.0	0.1+				

2000 ER₁₁₀ = 1998 SH₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.82902	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26392309	ω	45.66034	−0.66496203
<i>a</i>	2.4070464	Ω	86.11486	+0.66733172
<i>e</i>	0.1363716	<i>i</i>	3.38866	+0.33540108
<i>P</i>	3.73	<i>H</i>	15.0	<i>U</i>

2000 APR. 18

M.P.C. 40189

Residuals in seconds of arc

1995 12 27	691	0.1−	0.2−	2000 01 08	704	0.1+	0.9+	2000 03 28	704	0.2+	0.3+
1995 12 27	691	0.1−	0.3−	2000 01 08	704	0.4+	0.2+	2000 04 05	704	0.3−	0.7+
1995 12 27	691	0.1−	0.2−	2000 01 08	704	0.1+	0.2−	2000 04 05	704	0.2+	0.6+
1996 02 16	691	0.0	0.2+	2000 03 08	608	0.7+	0.1−	2000 04 05	704	0.5−	0.1−
1996 02 16	691	0.2+	0.2−	2000 03 08	608	0.0	1.2−	2000 04 05	704	0.3+	0.0
1996 02 16	691	0.1−	0.1+	2000 03 08	608	0.7+	0.9−	2000 04 10	704	0.3+	0.3−
1998 09 17	691	0.1−	0.2+	2000 03 12	704	0.2−	0.6+	2000 04 10	704	0.1−	0.3+
1998 09 17	691	0.0	0.3+	2000 03 12	704	0.0	0.3+	2000 04 10	704	0.2−	0.6+
1998 09 24	691	0.3−	0.4+	2000 03 12	704	0.2+	0.6+	2000 04 10	704	0.2−	0.0
1998 09 24	691	0.1−	0.4+	2000 03 28	704	0.3+	0.3+	2000 04 10	704	0.6−	0.2+
1998 09 24	691	0.3−	0.4+	2000 03 28	704	0.6−	0.7−				

2000 EW₁₁₀ = 1989 YC₃ = 1990 BV₅ = 1998 UZ₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	60.27608		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.20531667	ω	342.19401	+0.00911893	−0.99402921
<i>a</i>	2.8456833	Ω	107.17474	+0.93073144	−0.03131752
<i>e</i>	0.2241963	<i>i</i>	6.53484	+0.36558970	+0.10452339
<i>P</i>	4.80	<i>H</i>	14.4	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1989 12 30	413	1.6+	1.4−	2000 02 11	704	0.7+	1.3+	2000 03 29	704	0.1−	0.1+
1989 12 30	413	2.5−	2.0+	2000 03 08	608	0.3+	1.7−	2000 03 29	704	0.1−	1.3+
1989 12 31	413	1.9−	0.5+	2000 03 08	608	0.5+	1.6−	2000 03 29	704	0.2−	0.6−
1990 01 25	372	1.2+	1.6−	2000 03 08	608	0.9+	1.0−	2000 03 29	704	0.1+	0.2−
1990 01 25	372	1.3+	0.4−	2000 03 12	703	0.2+	1.1+	2000 03 29	704	0.4−	0.3+
1998 10 17	699	0.1+	0.1−	2000 03 12	703	(2.2−	0.1−)	2000 04 03	704	0.1−	0.0
1998 10 17	699	0.7−	1.1−	2000 03 12	703	1.4−	0.2+	2000 04 03	704	0.5−	0.3−
1998 10 17	699	0.1−	0.3+	2000 03 12	703	0.9−	0.5−	2000 04 03	704	1.1+	1.0−
1998 10 20	699	0.1−	0.4+	2000 03 12	704	0.0	0.0	2000 04 03	704	0.5+	0.2+
1998 10 20	699	0.1+	0.4−	2000 03 12	704	0.6−	0.3−	2000 04 03	704	0.0	0.1−
1998 10 20	699	0.0	0.1−	2000 03 12	704	0.5+	0.2+	2000 04 05	704	0.1+	0.1−
1998 11 13	704	(0.1+	2.2+)	2000 03 12	704	0.5−	0.6+	2000 04 05	704	0.1−	0.1+
1998 11 13	704	0.1+	1.9+	2000 03 26	699	0.4−	0.8+	2000 04 05	704	0.6−	0.3−
1998 11 13	704	0.3+	0.1−	2000 03 26	699	0.6−	1.1+	2000 04 08	704	0.3−	0.3+
1998 11 13	704	(4.4−	1.0−)	2000 03 26	699	0.5−	0.2−	2000 04 08	704	1.0+	0.7+
2000 02 11	704	1.4+	0.4+	2000 03 26	699	1.0−	0.2+	2000 04 08	704	0.2−	0.6−
2000 02 11	704	0.2−	0.4−	2000 03 28	704	0.8+	0.6+	2000 04 08	704	1.4−	0.1−
2000 02 11	704	1.6+	0.9+	2000 03 28	704	0.4+	0.3+	2000 04 08	704	0.3−	0.1+
2000 02 11	704	1.1+	0.2−	2000 03 28	704	0.4+	0.0				

2000 EY₁₁₀ = 1998 XD₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	223.85062		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28038319	ω	249.32030	+0.78786600	+0.60711821
<i>a</i>	2.3118948	Ω	73.15573	−0.51720545	+0.74336629
<i>e</i>	0.1677270	<i>i</i>	6.19714	−0.33431377	+0.28073838
<i>P</i>	3.52	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1998 12 14	704	0.3+	0.0	2000 03 12	703	0.3−	0.5+	2000 03 28	704	1.2+	0.9−
1998 12 14	704	0.3+	0.4+	2000 03 12	703	0.6−	0.2+	2000 03 28	704	0.4+	0.5+
1998 12 14	704	0.8+	0.7+	2000 03 12	703	0.3+	0.2+	2000 04 03	704	0.3+	0.1+
1998 12 14	704	0.7−	0.1+	2000 03 12	704	0.3+	0.3−	2000 04 03	704	0.2+	0.2+
1998 12 17	704	0.0	0.7−	2000 03 12	704	0.8−	0.6+	2000 04 03	704	0.2+	0.1+
1998 12 17	704	0.2+	0.1−	2000 03 12	704	0.7−	0.9+	2000 04 03	704	0.5+	0.6+
1998 12 17	704	0.5+	0.0	2000 03 12	704	0.0	0.3+	2000 04 03	704	0.0	0.6+
1998 12 17	704	0.4−	0.2+	2000 03 26	699	0.1−	0.8+	2000 04 08	704	0.1−	0.0
1998 12 17	704	1.0−	0.5−	2000 03 26	699	0.7−	0.7+	2000 04 08	704	0.1+	0.3−
2000 03 08	608	1.0+	1.8−	2000 03 26	699	0.2−	1.0+	2000 04 08	704	0.2+	1.0−
2000 03 08	608	0.3+	1.0−	2000 03 26	699	0.8−	0.1−	2000 04 08	704	0.4+	0.8+
2000 03 08	608	0.9+	1.1−	2000 03 28	704	0.3+	0.2+	2000 04 08	704	1.7−	1.0−
2000 03 12	703	1.8−	0.2+	2000 03 28	704	1.1+	1.1−				

2000 EN₁₁₁ = 1996 GE₁ = 1998 XP₆₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	308.45163		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23426104	ω	191.98837	−0.63784904	+0.75423745
<i>a</i>	2.6061696	Ω	38.68423	−0.68441479	−0.46234774
<i>e</i>	0.0603711	<i>i</i>	14.43451	−0.35316428	−0.46621929
<i>P</i>	4.21	<i>H</i>	13.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1996 04 15	120	0.4−	0.2−	2000 01 07	704	0.5−	0.3+	2000 03 29	704	0.2+	0.5+
1996 04 15	120	0.5−	0.0	2000 01 07	704	0.1−	0.1+	2000 03 29	704	0.4+	0.7+
1996 04 16	120	0.9−	0.7−	2000 01 07	704	0.4−	1.3−	2000 03 29	704	0.8+	0.6+
1996 04 16	120	0.4+	1.3−	2000 03 05	704	0.0	0.1+	2000 03 29	704	0.2+	0.9+
1998 12 14	704	0.7−	0.2+	2000 03 05	704	0.1+	0.0	2000 04 03	704	0.1+	0.1+
1998 12 14	704	0.6+	0.6+	2000 03 05	704	0.0	0.3−	2000 04 03	704	0.0	0.0
1998 12 14	704	0.9+	0.7+	2000 03 08	608	0.2−	1.1−	2000 04 03	704	0.2+	0.3+
1998 12 14	704	0.5−	0.8+	2000 03 08	608	0.1−	1.4−	2000 04 03	704	0.0	0.2+
1998 12 17	704	0.8−	0.9−	2000 03 08	608	0.1−	1.4−	2000 04 03	704	0.4−	0.0
1998 12 17	704	0.1+	0.6−	2000 03 12	704	0.0	0.2+	2000 04 08	704	0.3+	0.3+
1998 12 17	704	0.4+	0.3−	2000 03 12	704	0.6+	0.4+	2000 04 08	704	0.1−	1.0+
1998 12 17	704	0.2+	1.0−	2000 03 12	704	0.1−	0.3+	2000 04 08	704	0.0	0.3+
2000 01 07	704	0.2−	0.4−	2000 03 12	704	0.3+	0.5+	2000 04 08	704	0.1−	0.6+

2000 EP₁₁₁ = 1993 UP₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	296.25053		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22226499	ω	178.91016	−0.40497786	+0.89576789
<i>a</i>	2.6991188	Ω	67.17816	−0.84037544	−0.28569200
<i>e</i>	0.0783414	<i>i</i>	11.46974	−0.36022501	−0.34055831
<i>P</i>	4.43	<i>H</i>	14.1	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 10 10	809	0.3−	1.4−	1996 06 21	566	0.6−	0.2−	2000 03 12	704	0.5+	0.6+
1993 10 10	809	1.5−	1.5−	1996 06 21	566	0.4−	0.5−	2000 03 29	704	0.0	0.2+
1993 10 10	809	1.5−	1.6−	1996 06 21	566	0.1−	0.1−	2000 03 29	704	0.4+	0.4+
1993 10 20	809	(2.4+	1.1+)	1998 12 16	704	0.2−	0.2+	2000 03 29	704	0.2−	0.5+
1993 10 20	809	1.9+	0.9+	1998 12 16	704	0.0	1.0−	2000 03 29	704	0.0	0.2+
1993 10 20	809	1.2+	1.7+	1998 12 16	704	1.4+	0.2−	2000 04 04	704	0.3−	0.3−
1993 10 21	809	0.7+	0.4+	1998 12 16	704	1.0−	1.3−	2000 04 04	704	0.3−	0.2+
1993 10 21	809	0.2−	0.8+	2000 03 08	608	0.4+	0.2−	2000 04 04	704	0.7+	0.1−
1993 10 21	809	0.3+	0.0	2000 03 08	608	0.2+	0.1−	2000 04 04	704	0.1−	0.1−
1996 05 20	691	0.1−	0.8−	2000 03 08	608	0.0	0.6−	2000 04 09	608	0.9−	0.3+
1996 05 20	691	0.2−	0.5−	2000 03 12	704	0.1−	0.2−	2000 04 09	608	0.3−	0.5−
1996 05 20	691	0.3−	0.4−	2000 03 12	704	0.9+	0.4+	2000 04 09	608	0.5−	0.4−

2000 ER₁₁₁ = 1999 JP₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	140.50667		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21240024	ω	359.74565	+0.83133602	−0.52716047
<i>a</i>	2.7820571	Ω	34.00511	+0.51046326	+0.59900939
<i>e</i>	0.1475545	<i>i</i>	18.34448	+0.21979010	+0.60273509
<i>P</i>	4.64	<i>H</i>	12.8	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 11 12	026	0.8+	1.0+	1999 05 14	703	0.0	0.1−	2000 03 12	703	0.1+	0.5−
1993 11 13	026	1.9−	0.5+	1999 05 14	703	1.0+	0.9+	2000 03 12	703	1.2−	0.4+
1998 12 12	704	0.7−	0.3−	1999 05 14	703	0.5+	1.3+	2000 03 15	699	0.2+	0.5+
1998 12 12	704	0.1−	0.3−	1999 05 14	703	0.1−	0.2+	2000 03 15	699	0.8−	0.2+
1998 12 12	704	0.3−	0.5−	1999 05 15	693	0.2+	0.5+	2000 03 15	699	0.5−	0.4+
1998 12 12	704	0.1+	1.3−	1999 05 15	693	0.3+	0.6+	2000 03 15	699	0.5−	0.0
1998 12 12	704	0.4−	0.3−	1999 05 15	693	0.2+	0.6+	2000 03 29	704	0.1−	0.3−
1999 01 14	704	0.1−	0.3−	2000 01 08	704	0.5+	1.2+	2000 03 29	704	0.2+	0.1−
1999 01 14	704	0.2−	0.3+	2000 01 08	704	1.7+	0.2−	2000 03 29	704	0.4+	0.4−
1999 01 14	704	0.2+	0.5+	2000 01 08	704	0.0	0.3−	2000 03 29	704	0.3+	0.3+
1999 01 14	704	1.1+	0.4+	2000 01 08	704	0.1−	0.6+	2000 03 29	704	0.5+	0.1+

M.P.C. 40190

2000 APR. 18

1999 01 14	704	0.9+	0.8+	2000 03 08	608	0.1+	1.1-	2000 04 05	704	0.7+	0.4+
1999 04 06	704	0.1-	1.7-	2000 03 08	608	0.1-	0.8-	2000 04 05	704	0.3+	0.9+
1999 04 06	704	2.0-	1.8-	2000 03 08	608	0.1+	1.0-	2000 04 05	704	0.4+	0.7+
1999 04 06	704	0.4-	0.7-	2000 03 12	703	0.7-	0.3-	2000 04 05	704	0.2+	0.4+
1999 04 06	704	(3.9-	0.5-)	2000 03 12	703	0.9-	0.4-	2000 04 05	704	0.4+	0.2+

2000 ED₁₁₂ = 1996 HT₉ = 1998 SK₁₄₀ = 1998 UC₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	35.31956		(2000.0)	P	Q
n	0.21813288	ω	260.37831	-0.39573043	-0.91135080
a	2.7330985	Ω	213.65522	+0.90221822	-0.36276766
e	0.1223914	i	11.79690	+0.17146343	-0.19452339
P	4.52	H	14.5	G 0.15	U 3

Residuals in seconds of arc

1996 04 17	809	(1.7-	2.8+)	1998 09 27	704	0.1-	0.3+	2000 03 09	704	0.2-	0.7-
1996 04 17	809	(1.8-	2.3+)	1998 09 27	704	(1.5-	2.4+)	2000 03 09	704	0.5-	0.4-
1996 04 17	809	0.8-	1.2+	1998 10 28	704	1.1+	0.8-	2000 03 09	704	0.3-	0.3-
1996 04 18	809	(0.1+	3.2+)	1998 10 28	704	0.2-	0.0	2000 03 09	704	0.0	0.4-
1996 04 18	809	(0.5-	3.3+)	1998 10 28	704	0.1+	1.0-	2000 03 13	704	(2.7-	0.0)
1996 04 18	809	(0.5-	2.4+)	1998 10 28	704	0.5-	1.0-	2000 03 13	704	0.6-	0.4+
1996 06 08	809	(1.1+	2.1-)	1998 10 29	704	0.4+	0.7+	2000 03 13	704	0.6+	0.0
1996 06 08	809	0.9+	1.4-	1998 10 29	704	1.4-	1.6-	2000 03 13	704	1.8+	1.5-
1996 06 08	809	0.3-	1.8-	1998 10 29	704	1.7+	0.1+	2000 03 14	703	0.8-	0.4+
1996 06 10	809	(3.4+	5.0-)	1998 10 29	704	0.1+	1.5-	2000 03 14	703	0.9-	0.5-
1996 06 10	809	(2.6+	3.9-)	1998 10 29	704	1.4-	0.7+	2000 03 14	703	0.4-	1.0-
1996 06 10	809	0.1-	0.7-	1998 11 10	704	0.5-	0.7+	2000 03 14	703	0.4-	0.0
1998 09 26	704	1.5+	0.4+	1998 11 10	704	1.1-	0.4-	2000 03 30	703	0.9+	0.6+
1998 09 26	704	1.1-	0.7+	1998 11 10	704	0.4-	0.6-	2000 03 30	703	0.9+	0.6+
1998 09 26	704	(2.5-	0.2+)	1998 11 10	704	0.8+	0.0	2000 03 30	703	0.8+	0.4+
1998 09 26	704	0.7+	0.3-	2000 03 03	703	0.7-	0.1-	2000 03 30	703	1.1+	0.7+
1998 09 26	704	0.8-	1.5+	2000 03 03	703	0.0	0.0	2000 04 04	699	0.4+	1.0+
1998 09 27	704	0.4+	0.3-	2000 03 03	703	0.6-	0.5-	2000 04 04	699	0.7+	1.0+
1998 09 27	704	1.2+	0.5+	2000 03 03	703	0.7-	0.0	2000 04 04	699	0.5-	0.2+
1998 09 27	704	(0.6+	2.5+)	2000 03 09	704	0.3-	0.3-	2000 04 04	699	0.1-	0.2+

2000 ES₁₁₂ = 1990 SG₁₈ = 1994 TT₁₅ = 1999 AZ₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	127.03284		(2000.0)	P	Q
n	0.25953470	ω	90.10841	+0.82444525	-0.56080902
a	2.4341038	Ω	304.00382	+0.47588503	+0.75969389
e	0.1333796	i	5.26339	+0.30630617	+0.32917843
P	3.80	H	14.0	G 0.15	U 3

Residuals in seconds of arc

1990 09 16	675	0.3-	0.4+	2000 02 08	704	0.5+	0.1-	2000 03 13	703	0.4-	0.1-
1990 09 16	675	0.1-	0.1-	2000 02 08	704	0.3+	1.3-	2000 03 13	703	0.5-	0.3+
1994 10 04	033	0.8-	0.2+	2000 03 01	703	0.6+	0.4+	2000 03 13	703	0.1-	0.5-
1994 10 06	033	0.0	0.7-	2000 03 01	703	0.2+	0.3+	2000 03 13	703	0.8-	0.3+
1994 10 07	033	0.8+	0.1+	2000 03 01	703	0.6+	0.5+	2000 04 02	699	0.0	0.4+
1994 10 11	691	0.2-	0.6+	2000 03 01	703	0.4+	0.1+	2000 04 02	699	1.0-	0.8+
1994 10 11	691	0.2+	0.5+	2000 03 01	703	0.2-	0.2-	2000 04 02	699	1.1-	0.7+
1994 10 11	691	0.1+	0.4+	2000 03 01	703	0.9+	0.5+	2000 04 02	699	0.4-	0.1-
1999 01 08	704	1.3-	1.2-	2000 03 01	703	0.4-	0.5+	2000 04 04	704	0.1-	0.9-
1999 01 08	704	1.2+	0.8+	2000 03 01	703	0.2+	0.2-	2000 04 04	704	0.9+	0.2+
1999 01 08	704	0.1+	0.1-	2000 03 06	608	0.5-	0.8-	2000 04 04	704	0.0	0.9-
1999 01 08	704	0.1+	1.0+	2000 03 06	608	0.5-	0.3-	2000 04 04	704	0.5+	0.4-
1999 01 14	704	0.8-	0.9+	2000 03 06	608	0.3-	0.4-	2000 04 08	704	0.0	0.3-
1999 01 14	704	0.5-	0.4-	2000 03 09	704	0.2+	0.4+	2000 04 08	704	0.6+	1.0+
1999 01 14	704	0.8+	1.2-	2000 03 09	704	0.5+	0.9+	2000 04 08	704	0.2+	0.0
2000 02 08	704	0.8+	0.1-	2000 03 09	704	0.0	0.1+	2000 04 08	704	0.1-	0.1+
2000 02 08	704	0.0	0.5-	2000 03 09	704	0.3+	0.1+				
2000 02 08	704	0.3+	0.4+	2000 03 09	704	0.4-	0.2+				

2000 EU₁₁₂ = 1999 CR₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	310.94981		(2000.0)	P	Q
n	0.18060837	ω	196.34582	-0.34961086	+0.93629796
a	3.0996367	Ω	53.20269	-0.85484142	-0.30418028
e	0.1093044	i	2.39354	-0.38342978	-0.17555765
P	5.46	H	13.5	G 0.15	U 4

Residuals in seconds of arc

1991 10 08	691	0.3+	0.3+	2000 03 09	704	1.3-	0.2-	2000 04 05	704	0.0	0.3+
1991 10 08	691	0.3-	0.3+	2000 03 09	704	0.6-	0.6+	2000 04 06	704	0.2+	0.1-
1991 10 08	691	0.3-	0.1+	2000 03 14	703	0.1-	0.4-	2000 04 06	704	0.1-	0.1-
1999 02 10	704	(3.3+	0.1+)	2000 03 14	703	0.2+	0.0	2000 04 06	704	0.4+	0.2+
1999 02 10	704	(2.2+	2.4+)	2000 03 14	703	0.7-	0.3-	2000 04 06	704	0.3+	0.1+
1999 02 10	704	1.0+	1.1+	2000 03 14	703	0.5+	0.6-	2000 04 06	704	0.1-	0.1+
1999 02 13	704	0.8-	1.2-	2000 03 27	691	0.7-	0.3-	2000 04 07	704	0.1+	0.0
1999 02 13	704	0.5-	1.6+	2000 03 27	691	0.9-	0.3-	2000 04 07	704	0.7+	0.6+
1999 02 13	704	1.1+	0.1-	2000 03 27	691	0.7-	0.1-	2000 04 07	704	0.1-	0.6+
1999 02 13	704	0.8-	1.5-	2000 04 03	699	0.1-	0.1-	2000 04 07	704	0.5+	0.6+
2000 03 04	703	0.7+	0.1-	2000 04 03	699	0.1+	0.1-	2000 04 07	704	(2.6+	0.0)
2000 03 04	703	0.0	0.1-	2000 04 03	699	0.0	0.3-	2000 04 10	704	0.5-	0.2-
2000 03 04	703	1.0+	0.3+	2000 04 03	699	0.4-	0.1-	2000 04 10	704	0.0	0.1-
2000 03 04	703	0.2-	0.6+	2000 04 05	704	0.0	0.4-	2000 04 10	704	0.1-	0.5-
2000 03 09	704	1.0+	0.3+	2000 04 05	704	0.4+	0.1-	2000 04 10	704	0.2-	0.6-
2000 03 09	704	0.9+	0.9+	2000 04 05	704	0.3-	0.3-	2000 04 10	704	0.2+	0.1-
2000 03 09	704	0.1+	0.4+	2000 04 05	704	0.0	0.5+				

**2000 EX₁₁₂ = 1982 XZ = 1990 WC₁₅ = 1990 WE₁₃ = 1994 WK₁₁
= 1998 YE₂₇**Id. G. V. Williams, S. Nakano (d, *MPC* 20062)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	144.45531		(2000.0)	P	Q
n	0.24922989	ω	352.26680	+0.79021238	-0.61228971
a	2.5007443	Ω	45.52196	+0.56418115	+0.71039363
e	0.1363030	i	2.07231	+0.23929905	+0.34704783
P	3.95	H	14.3	G	0.15
				U	3

Residuals in seconds of arc

1982 12 13	381	0.5-	0.0	1998 12 16	704	1.1-	1.8-	2000 04 06	704	0.5+	0.1-
1982 12 13	381	0.8-	0.8-	1998 12 17	704	0.2+	0.5+	2000 04 06	699	0.9+	0.1-
1982 12 14	381	0.5-	0.6-	1998 12 17	704	(0.9-	3.5-)	2000 04 06	704	0.2+	0.1+
1982 12 14	381	0.0	0.2-	1998 12 17	704	1.4-	0.2-	2000 04 06	704	0.1+	0.4-
1990 11 18	049	0.1-	0.0	1998 12 17	704	1.1-	0.5-	2000 04 06	699	0.8+	0.2+
1990 11 18	049	1.0-	0.7+	1998 12 17	704	0.9-	1.0-	2000 04 06	704	0.1+	0.3-
1990 11 20	095	(1.4-	2.5-)	2000 03 09	704	0.1+	0.3+	2000 04 06	699	0.9+	0.2+
1990 11 20	095	1.8+	0.9-	2000 03 09	704	1.1+	0.8-	2000 04 06	704	0.2+	0.3-
1992 04 09	691	0.1-	0.6-	2000 03 09	704	0.0	1.6+	2000 04 06	691	0.5-	0.1-
1992 04 09	691	0.2-	0.9-	2000 03 09	704	0.5+	1.6+	2000 04 06	691	0.5-	0.0
1992 04 09	691	0.5-	1.2-	2000 03 09	704	0.2+	1.3+	2000 04 06	691	0.5-	0.0
1994 11 27	010	1.8+	1.1+	2000 03 14	703	0.3-	0.8+	2000 04 07	704	1.0+	0.6+
1994 11 27	010	0.3+	0.8+	2000 03 14	703	0.2-	0.6-	2000 04 07	704	0.1-	0.7+
1994 11 28	010	0.9+	0.4+	2000 03 14	703	0.5+	0.1+	2000 04 07	704	1.1-	0.0
1994 11 28	010	0.3+	0.6+	2000 03 14	703	0.2+	0.5-	2000 04 07	704	0.3-	1.0+
1994 11 28	010	1.6+	1.0+	2000 03 27	691	0.5-	0.2-	2000 04 07	704	0.8-	0.5+
1994 11 29	010	1.0+	0.4+	2000 03 27	691	0.5-	0.4-	2000 04 10	704	0.0	0.1-
1998 12 14	704	0.2-	0.7+	2000 03 27	691	0.4-	0.2-	2000 04 10	704	0.2-	0.4+
1998 12 14	704	0.1-	0.7-	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.3-	0.7-
1998 12 14	704	0.1-	0.3+	2000 04 05	704	0.5+	0.3-	2000 04 10	704	0.1+	0.3+
1998 12 14	704	0.2-	0.4+	2000 04 05	704	0.5+	0.5+	2000 04 10	704	0.0	0.1-
1998 12 14	704	0.2-	0.9+	2000 04 05	704	0.6+	0.2+	2000 04 11	608	0.9-	0.6-
1998 12 16	704	(0.9-	2.7-)	2000 04 05	704	0.6+	0.2-	2000 04 11	608	1.1-	0.6-
1998 12 16	704	0.0	1.6-	2000 04 06	699	0.4+	0.0	2000 04 11	608	0.9-	0.5-

2000 APR. 18

M.P.C. 40191

2000 EZ₁₁₂ = 1996 AN₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.83119	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.28924727	ω	229.91448	+0.02961117	+0.99884500	
<i>a</i>	2.2644177	Ω	41.82948	-0.89894713	+0.04316404	
<i>e</i>	0.1309929	<i>i</i>	3.25262	-0.43705519	-0.02110768	
<i>P</i>	3.41	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i> 2

Residuals in seconds of arc

1991 11 27	691	0.1+	0.5-	1998 12 17	704	0.9+	1.1-	2000 04 05	704	1.7-	0.3-
1991 11 27	691	0.1-	0.4-	1998 12 17	704	1.0-	1.8-	2000 04 05	704	0.0	0.4-
1991 11 27	691	0.2+	0.1+	1998 12 17	704	(3.0-	1.0+)	2000 04 05	704	0.1+	0.4-
1996 01 13	046	0.6+	0.7-	2000 03 09	704	1.0+	0.9+	2000 04 06	704	0.2+	0.5-
1996 01 13	046	0.2+	0.3-	2000 03 09	704	1.3-	0.8+	2000 04 06	704	0.2+	0.2-
1996 01 13	046	0.2-	0.3+	2000 03 09	704	0.2+	0.6-	2000 04 06	704	0.3-	0.4-
1996 01 13	046	0.1+	0.5+	2000 03 09	704	1.1+	0.2+	2000 04 06	704	0.3+	0.2-
1996 01 13	046	0.0	0.6-	2000 03 14	703	1.0-	0.5-	2000 04 06	704	0.4+	0.0
1996 01 14	046	1.7-	0.6+	2000 03 14	703	0.0	1.3+	2000 04 07	704	0.2+	0.3-
1996 01 14	046	0.9+	0.8+	2000 03 14	703	0.5-	0.4-	2000 04 07	704	0.2+	0.2+
1996 01 14	046	0.7-	1.4+	2000 03 14	703	0.4-	0.7+	2000 04 07	704	1.0+	1.1+
1996 01 15	046	0.3+	0.7+	2000 03 27	691	0.1-	0.5-	2000 04 07	704	0.2+	0.1+
1996 01 15	046	0.2+	0.5+	2000 03 27	691	0.0	0.5-	2000 04 07	704	0.3+	0.3+
1996 01 17	046	0.2-	0.2+	2000 03 27	691	0.1-	0.4-	2000 04 10	704	0.3+	0.2+
1996 01 17	046	0.2+	0.3+	2000 04 03	699	0.2+	0.5-	2000 04 10	704	0.4-	0.2-
1996 01 17	046	0.0	0.2+	2000 04 03	699	0.3-	0.3+	2000 04 10	704	0.0	0.6-
1996 01 18	046	0.6+	0.5-	2000 04 03	699	0.2-	0.6+	2000 04 10	704	0.2-	0.5-
1996 01 18	046	0.0	0.7-	2000 04 03	699	0.2-	0.1+	2000 04 10	704	0.2-	0.1-
1996 01 18	046	0.2+	1.1-	2000 04 05	704	0.1+	0.2-				
1998 12 17	704	0.3+	1.5+	2000 04 05	704	(3.8+	0.3+)				

2000 EB₁₁₃ = 1990 QG₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	319.13819	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17419098	ω	183.79783	-0.39895729	+0.91646727	
<i>a</i>	3.1753061	Ω	62.69131	-0.84040073	-0.35220491	
<i>e</i>	0.1646545	<i>i</i>	1.95710	-0.36682380	-0.18984056	
<i>P</i>	5.66	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1990 08 16	809	0.2+	1.4+	1999 01 10	691	0.1+	0.9-	2000 04 06	704	0.3-	0.1-
1990 08 16	809	0.2+	1.7-	1999 01 10	691	0.1-	0.7-	2000 04 06	704	0.3-	0.0
1990 08 16	809	(0.8-	3.1-)	2000 03 09	704	0.1-	0.2-	2000 04 07	704	0.0	0.2-
1990 08 18	809	0.1+	1.9-	2000 03 09	704	0.4-	0.3-	2000 04 07	704	0.2-	0.0
1990 08 18	809	0.5-	1.1-	2000 03 09	704	0.3+	0.7-	2000 04 07	704	0.4-	0.1+
1990 08 18	809	1.9-	1.8-	2000 03 09	704	0.7-	0.4-	2000 04 07	704	0.0	0.2+
1990 08 24	809	(2.6+	1.2-)	2000 03 14	703	1.0+	0.1-	2000 04 08	704	0.3-	0.3-
1990 08 24	809	(2.5+	1.8-)	2000 03 14	703	0.2-	0.4-	2000 04 08	704	0.2+	0.3+
1990 08 24	809	1.7+	1.4-	2000 03 14	703	0.1+	0.3+	2000 04 08	704	0.0	1.1-
1990 08 26	809	0.6+	0.2+	2000 03 14	703	0.2+	0.1+	2000 04 08	704	0.3-	0.3-
1990 08 26	809	1.2+	0.2-	2000 04 03	699	0.4-	0.2+	2000 04 08	704	0.1-	0.1+
1990 08 26	809	1.0+	0.2+	2000 04 03	699	0.7-	0.8-	2000 04 10	704	0.2-	0.0
1991 11 06	691	0.1-	0.4+	2000 04 03	699	0.5-	0.1+	2000 04 10	704	0.0	0.1+
1991 11 06	691	0.2-	0.7+	2000 04 03	699	0.6-	0.2-	2000 04 10	704	0.0	0.2+
1991 11 06	691	0.4-	0.6+	2000 04 05	704	0.4-	0.1-	2000 04 10	704	0.3+	0.2+
1998 12 12	691	0.3-	0.2-	2000 04 05	704	0.1-	0.2-	2000 04 10	704	0.2+	0.2+
1998 12 12	691	0.4-	0.6-	2000 04 05	704	0.2-	0.4-	2000 04 12	704	1.4+	0.7-
1998 12 12	691	0.2-	0.6-	2000 04 05	704	0.5-	0.3-	2000 04 12	704	0.1-	1.4+
1998 12 28	691	(5.3+	6.6-)	2000 04 05	704	0.2-	0.3-	2000 04 12	704	1.2+	0.5+
1998 12 28	691	0.2-	0.9-	2000 04 06	704	0.1-	0.2-	2000 04 12	704	0.3+	0.4+
1998 12 28	691	0.1-	1.0-	2000 04 06	704	0.1+	0.3-	2000 04 12	704	1.0+	0.6+
1999 01 10	691	0.1-	0.5-	2000 04 06	704	0.0	0.1-				

2000 ER₁₁₃ = 1997 TX₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	49.60516	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17499860	ω	165.16491	-0.34428183	-0.93870719	
<i>a</i>	3.1655293	Ω	304.97021	+0.85923028	-0.30760481	
<i>e</i>	0.1394985	<i>i</i>	1.20878	+0.37840897	-0.15558948	
<i>P</i>	5.63	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1997 10 03	691	0.5+	0.2+	2000 03 11	704	0.1+	0.4-	2000 04 06	704	0.2-	1.0+
1997 10 03	691	0.2+	0.3-	2000 03 11	704	0.0	0.3-	2000 04 06	704	0.1-	0.8+
1997 10 03	691	0.1-	0.1+	2000 04 03	691	0.0	0.2-	2000 04 06	704	0.0	1.2+
1997 10 09	691	0.2-	0.2+	2000 04 03	691	0.0	0.2-	2000 04 07	691	0.4-	0.6-
1997 10 09	691	0.3-	0.1+	2000 04 03	691	0.1+	0.0	2000 04 07	691	0.5-	0.4-
1997 10 09	691	0.0	0.1-	2000 04 05	704	0.2+	0.6-	2000 04 07	691	0.4-	0.6-
2000 03 09	691	0.8-	0.4-	2000 04 05	704	0.2-	0.3+	2000 04 07	704	0.6+	0.1-
2000 03 09	691	0.7-	0.2-	2000 04 05	704	0.1+	0.5+	2000 04 07	704	0.1+	0.6+
2000 03 09	691	0.8-	0.2-	2000 04 05	704	0.5+	0.7+	2000 04 07	704	0.1-	0.1-
2000 03 11	704	1.6+	0.7+	2000 04 05	704	0.1-	0.8+	2000 04 07	704	0.2-	1.9-
2000 03 11	704	0.5+	0.8+	2000 04 06	704	0.6+	0.2+	2000 04 07	704	0.3+	1.4-
2000 03 11	704	0.1+	0.1-	2000 04 06	704	0.4-	0.2+				

2000 EU₁₁₃ = 1998 VU₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	16.87178	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.25718648	ω	137.55728	-0.97387071	-0.19037812	
<i>a</i>	2.4488976	Ω	32.09725	+0.08776882	-0.81837194	
<i>e</i>	0.1058560	<i>i</i>	13.47554	+0.20945756	-0.54223937	
<i>P</i>	3.83	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1994 11 10	691	0.4-	0.6+	1998 11 19	905	1.4-	0.7+	2000 04 05	704	1.1-	0.4+
1994 11 10	691	0.3-	0.5+	2000 02 08	704	0.1-	0.3+	2000 04 06	704	0.1+	0.0
1994 11 10	691	0.4-	0.4+	2000 02 08	704	0.4+	0.3+	2000 04 06	704	0.2+	0.2+
1998 10 19	699	0.1+	0.7+	2000 02 08	704	0.2+	0.1-	2000 04 06	704	0.5-	0.3+
1998 10 19	699	0.9+	0.3+	2000 03 09	704	1.3+	0.6+	2000 04 06	704	0.2+	0.0
1998 10 19	699	0.4+	0.5+	2000 03 09	704	0.4+	0.5-	2000 04 06	704	0.2+	0.4+
1998 11 10	704	0.5+	0.7-	2000 03 09	704	0.4-	0.2+	2000 04 07	704	0.1-	0.2+
1998 11 10	704	(2.4-	2.1-)	2000 03 09	704	0.4-	0.4+	2000 04 07	704	0.1+	0.3+
1998 11 10	704	0.4-	0.1+	2000 03 09	704	0.5-	0.7-	2000 04 07	699	0.9-	0.3-
1998 11 10	704	0.6-	0.5+	2000 03 14	703	0.1+	0.3-	2000 04 07	704	0.3+	0.2+
1998 11 10	704	0.1+	1.0+	2000 03 14	703	0.1-	0.1+	2000 04 07	699	0.8-	0.0
1998 11 11	704	0.3+	0.8-	2000 03 14	703	0.0	0.2-	2000 04 07	699	0.6-	0.1-
1998 11 11	704	1.3+	1.4-	2000 03 14	703	1.9+	0.7-	2000 04 07	704	0.3+	0.2-
1998 11 11	704	(2.7+	0.1-)	2000 04 05	704	0.0	0.1-	2000 04 07	699	0.6-	0.3-
1998 11 11	704	0.4-	1.9-	2000 04 05	704	0.2+	0.1-	2000 04 07	704	0.5-	0.3-
1998 11 19	905	0.1-	0.4-	2000 04 05	704	1.3+	0.3+				

2000 EV₁₁₃ = 1999 CK₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	326.00079	(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.18464147	ω	204.16056	-0.66382161	+0.74441241	
<i>a</i>	3.0543342	Ω	24.44534	-0.65470903	-0.53184378	
<i>e</i>	0.0277512	<i>i</i>	10.02656	-0.36152035	-0.40372311	
<i>P</i>	5.34	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i> 3

Residuals in seconds of arc

1997 10 01	910	0.2+	0.2+	1999 02 13	704	0.6+	1.1-	2000 04 05	704	0.3-	0.4+
1997 10 01	910	0.2+	0.3+	1999 02 13	704	1.0+	1.5-	2000 04 06	704	0.7+	0.4-
1997 10 01	910	0.4+	0.3+	2000 03 09	704	0.8-	0.3-	2000 04 06	704	0.0	0.2-
1997 11 03	704	1.9-	0.6+	2000 03 09	704	0.2+	0.3-	2000 04 06	704	0.4+	0.4-
1997 11 03	704	0.5-	0.7-	2000 03 09	704	0.3+	0.5-	2000 04 06	704	0.3+	0.7-
1997 11 03	704	0.9+	0.4-	2000 03 09	704	0.4+	0.2+	2000 04 06	704	0.2+	0.0
1997 11 03	704	0.1+	0.7+	2000 03 14	703	0.1-	0.2+	2000 04 06	704	0.3+	0.3+
1997 11 03	704	(4.3-	0.9+)	2000 03 14	703	0.0	0.0	2000 04 06	704	0.2+	0.2+

M.P.C. 40192

1998 12 21	704	0.2+	1.5+	2000 03 14	703	0.7+	0.1+	2000 04 06	704	0.1-	0.0
1998 12 21	704	0.2+	0.6+	2000 03 14	703	1.0+	0.4-	2000 04 06	704	0.4+	0.5+
1998 12 21	704	1.8-	0.3-	2000 04 04	699	0.5-	0.4+	2000 04 07	704	0.0	0.0
1998 12 21	704	(6.0-	1.2-)	2000 04 04	699	0.0	0.3+	2000 04 07	704	0.4+	0.4+
1999 02 10	704	0.7+	0.5+	2000 04 04	699	0.2-	0.8+	2000 04 07	704	0.1-	0.2+
1999 02 10	704	0.3+	1.4+	2000 04 04	699	0.8-	0.2+	2000 04 12	691	0.3-	0.1+
1999 02 10	704	1.2+	1.0-	2000 04 05	704	0.1-	0.1+	2000 04 12	691	0.4-	0.0
1999 02 10	704	0.3+	0.3-	2000 04 05	704	0.1-	0.2-	2000 04 12	691	0.4-	0.0
1999 02 10	704	1.0-	0.5-	2000 04 05	704	0.5-	0.0				
1999 02 13	704	1.6-	0.4+	2000 04 05	704	0.1+	0.2+				

2000 EZ₁₁₃ = 1986 VF₈ = 1999 BG₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	229.59056	(2000.0)	P	Q			
<i>n</i>	0.25788401	<i>ω</i>	229.27730	+0.88968014	+0.45312476		
<i>a</i>	2.4444797	<i>Ω</i>	103.71036	-0.39957095	+0.83214149		
<i>e</i>	0.1249328	<i>i</i>	3.31040	-0.22093505	+0.31971627		
<i>P</i>	3.82	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1986 11 04	675	0.1+	0.7+	1999 01 19	704	0.0	0.7+	2000 04 07	704	0.4-	0.5+
1986 11 04	675	0.5-	0.3+	1999 01 19	704	0.9+	1.5+	2000 04 07	704	0.5-	0.1-
1998 12 21	327	0.3-	0.6-	2000 03 09	704	0.8+	0.3+	2000 04 07	704	0.0	0.1+
1998 12 21	327	0.7+	0.1-	2000 03 09	704	0.7-	0.1-	2000 04 07	704	0.0	0.3-
1998 12 21	327	0.3-	0.8-	2000 03 09	704	1.0+	0.2+	2000 04 08	704	0.0	0.5+
1999 01 16	704	0.7-	1.0-	2000 03 14	703	0.5+	0.4+	2000 04 08	704	0.2-	0.0
1999 01 16	704	0.7-	0.3-	2000 03 14	703	0.4+	0.4+	2000 04 08	704	0.1+	0.4-
1999 01 16	704	0.2+	0.5+	2000 03 14	703	0.0	1.0+	2000 04 08	704	0.5-	0.9-
1999 01 16	704	0.4+	0.0	2000 03 14	703	0.7+	0.2-	2000 04 08	704	0.6-	0.3-
1999 01 19	704	0.3-	0.5-	2000 04 07	704	0.1-	0.0				

2000 EA₁₁₄ = 1996 NV

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	309.53998	(2000.0)	P	Q			
<i>n</i>	0.18843339	<i>ω</i>	68.75442	-0.30550944	+0.95210953		
<i>a</i>	3.0132197	<i>Ω</i>	183.52649	-0.93087205	-0.30136418		
<i>e</i>	0.0592101	<i>i</i>	11.54025	-0.20035271	-0.05164369		
<i>P</i>	5.23	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 13	691	1.5+	0.6+	1997 11 06	704	(1.1-	2.3+)	2000 04 04	699	0.1-	0.4-
1991 09 13	691	0.8+	0.3+	1997 11 06	704	(2.7-	2.1+)	2000 04 04	699	0.5-	0.2+
1991 09 13	691	0.3+	0.1+	1997 11 06	704	1.4-	0.1+	2000 04 07	704	0.4+	0.0
1995 04 26	691	1.1-	0.3-	1997 11 06	704	(2.7-	2.2+)	2000 04 07	704	0.2+	0.2+
1995 04 26	691	0.9-	0.5-	2000 03 09	704	0.0	0.7-	2000 04 07	704	1.1+	0.5+
1995 04 26	691	0.9-	0.3-	2000 03 09	704	0.7+	0.7+	2000 04 07	704	0.1+	0.6+
1996 07 15	721	0.4-	0.9+	2000 03 09	704	0.5-	0.3+	2000 04 07	704	1.0+	0.7+
1996 07 15	721	(3.5-	1.1+)	2000 03 09	704	0.2+	0.9+	2000 04 08	704	0.1-	0.2+
1996 07 17	721	0.6-	0.5+	2000 03 14	703	0.0	1.1+	2000 04 08	704	0.4+	0.2-
1996 07 17	721	0.0	0.7-	2000 03 14	703	1.8+	0.1-	2000 04 08	704	(0.1+	2.8+)
1996 07 17	721	0.4-	0.2-	2000 03 14	703	1.3-	0.6-	2000 04 08	704	0.0	0.4-
1996 07 22	721	(2.6+	2.9+)	2000 03 14	703	0.1-	0.9-	2000 04 08	704	0.1-	0.7+
1996 07 22	721	0.0	0.3-	2000 04 04	699	0.3+	0.2-				
1997 11 06	704	(2.5-	2.3+)	2000 04 04	699	0.4-	0.8-				

2000 EF₁₁₄ = 1997 SD₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	270.94965	(2000.0)	P	Q			
<i>n</i>	0.19374823	<i>ω</i>	51.68035	+0.08834941	+0.99194553		
<i>a</i>	2.9578596	<i>Ω</i>	223.65880	-0.95001199	+0.05651808		
<i>e</i>	0.0428952	<i>i</i>	7.55487	-0.29945218	+0.11335682		
<i>P</i>	5.09	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

2000 APR. 18

Residuals in seconds of arc

1997 09 28	691	0.0	0.3+	1998 12 15	704	0.2-	0.0	2000 03 13	704	0.1+	0.0
1997 09 28	691	0.0	0.5+	1998 12 15	704	0.5-	1.0+	2000 03 13	704	0.0	0.1+
1997 09 28	691	0.2-	0.6+	1998 12 15	704	0.5-	1.9-	2000 03 13	704	0.3-	0.3-
1997 09 30	691	0.3-	0.4+	2000 01 10	704	0.9-	0.2-	2000 03 13	704	0.1+	0.5-
1997 09 30	691	0.6-	0.6+	2000 01 10	704	0.3-	0.1-	2000 03 13	704	0.8+	0.4+
1997 09 30	691	0.3-	0.4+	2000 01 10	704	0.8+	0.5+	2000 03 13	704	0.1+	0.1-
1997 10 05	691	0.7-	0.5-	2000 03 09	704	0.5+	0.4+	2000 03 13	704	1.0+	0.8+
1997 10 05	691	0.1-	0.5+	2000 03 09	704	0.4-	0.7+	2000 03 13	704	0.8+	0.7+
1997 10 05	691	0.2-	1.4+	2000 03 09	704	0.2+	0.4-	2000 03 13	704	0.1+	0.6+
1997 10 29	566	0.0	0.8+	2000 03 12	699	0.0	1.0+	2000 04 07	704	0.5+	0.3-
1997 10 29	566	0.0	0.5+	2000 03 12	699	0.3-	0.0	2000 04 07	704	0.6+	0.1-
1997 10 29	566	0.1-	0.9+	2000 03 12	699	0.6-	0.2-	2000 04 07	704	0.2+	0.2+
1997 10 30	704	0.4-	1.0-	2000 03 12	699	0.1-	0.0	2000 04 07	704	0.5+	0.8+
1997 10 30	704	1.0+	0.5+	2000 03 13	704	1.1-	0.4-	2000 04 07	704	0.2+	0.1+
1997 10 30	704	0.8+	1.5-	2000 03 13	704	0.1-	0.5-	2000 04 08	704	1.0-	1.1+
1997 10 30	704	0.0	1.2-	2000 03 13	704	0.0	0.2+	2000 04 08	704	0.6-	0.6-
1997 10 30	704	0.5+	0.2+	2000 03 13	704	0.9+	0.6-	2000 04 08	704	0.3-	0.3-
1998 12 15	704	0.1+	1.3+	2000 03 13	704	0.3-	0.0	2000 04 08	704	0.3-	0.4-
1998 12 15	704	0.7+	1.3-	2000 03 13	704	0.3+	0.6+	2000 04 08	704	0.3-	0.1+

2000 EG₁₁₄ = 1980 VT₃ = 1998 VF₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams							
<i>M</i>	88.91377	(2000.0)	P	Q			
<i>n</i>	0.27388879	<i>ω</i>	77.72260	-0.00720072	-0.99963818		
<i>a</i>	2.3482980	<i>Ω</i>	12.77530	+0.86586840	-0.01919749		
<i>e</i>	0.0663435	<i>i</i>	6.73057	+0.50022002	+0.01884049		
<i>P</i>	3.60	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 11 01	675	0.3-	0.2+	2000 03 14	703	0.8+	0.2+	2000 04 06	704	0.2+	0.1+
1980 11 02	675	0.4+	0.4-	2000 03 14	703	0.2+	0.2+	2000 04 06	699	0.1-	0.4-
1998 11 10	704	0.7-	0.6+	2000 03 14	703	0.2-	0.3+	2000 04 06	704	0.2+	0.3+
1998 11 10	704	0.1-	1.0-	2000 04 02	699	0.0	0.1-	2000 04 07	704	0.1+	0.2-
1998 11 10	704	0.7+	1.2+	2000 04 02	699	0.2-	0.0	2000 04 07	704	0.4-	0.2+
1998 11 10	704	0.7+	0.5-	2000 04 02	699	0.6+	0.6-	2000 04 07	704	0.1+	0.3+
1998 11 11	704	0.2-	0.2+	2000 04 02	699	0.4+	0.1-	2000 04 07	704	0.1+	0.5+
1998 11 11	704	0.6-	0.7+	2000 04 03	699	0.2-	0.1-	2000 04 07	704	0.4+	0.0
1998 11 11	704	1.1+	0.6-	2000 04 03	699	0.3-	0.4-	2000 04 08	704	1.0+	1.2+
1998 11 11	704	0.5+	0.9-	2000 04 03	699	0.6-	0.2-	2000 04 08	704	0.2-	0.5+
1998 11 11	704	0.4-	0.3-	2000 04 03	699	0.4+	0.4-	2000 04 08	704	0.0	0.0
1998 11 15	699	0.0	0.3-	2000 04 05	704	0.2+	0.1-	2000 04 08	704	0.1-	0.9+
1998 11 15	699	0.7+	0.3+	2000 04 05	704	0.1+	0.2+	2000 04 08	704	0.5+	0.2+
1998 11 15	699	0.5+	0.2+	2000 04 05	704	0.1+	0.2-	2000 04 10	704	0.3-	0.1-
1998 12 15	699	0.6+	0.6-	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.3-	0.1+
1998 12 15	699	0.0	0.5+	2000 04 05	704	0.2-	0.0	2000 04 10	704	0.5+	0.2+
1998 12 15	699	1.5-	0.8+	2000 04 06	699	0.2-	0.0	2000 04 10	704	0.5+	0.2+
2000 03 09	704	0.1+	0.3-	2000 04 06	704	0.2+	0.1-	2000 04 10	704	0.1-	0.2+
2000 03 09	704	0.5-	0.6-	2000 04 06	699	0.2-	0.1+	2000 04 12	691	0.8-	0.6-
2000 03 09	704	0.2-	0.3+	2000 04 06	704	0.3+	0.1-	2000 04 12	691	0.9-	0.5-
2000 03 14	703	0.6-	0.6-	2000 04 06	699	0.2-	0.2+	2000 04 12	691	0.8-	0.6-

2000 EK₁₁₄ = 1993 HC₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			

2000 APR. 18

M.P.C. 40193

1994 11 06	691	(3.9+ 0.8-)	2000 03 14	703	0.2+ 0.1-	2000 04 08	704	0.3- 0.6+
1994 11 06	691	0.5- 0.8+	2000 03 14	703	0.4+ 0.3+	2000 04 08	704	0.2- 0.1+
1994 11 06	691	0.7- 0.6+	2000 03 14	703	0.1- 0.1+	2000 04 08	704	0.3+ 0.8+
1994 11 10	691	0.6- 0.6+	2000 03 14	703	0.3- 0.3-	2000 04 08	704	0.0 0.2-
1994 11 10	691	1.6+ 1.3+	2000 03 30	704	0.3+ 0.6+	2000 04 08	704	0.4+ 0.9+
1997 08 30	566	0.1+ 0.2-	2000 03 30	704	0.1- 0.0	2000 04 08	704	0.0 0.0
1997 08 30	566	0.6- 0.0	2000 03 30	704	0.3- 1.1+	2000 04 08	704	0.2+ 0.3+
1997 08 30	566	0.0 0.1-	2000 03 30	704	0.4+ 1.2+	2000 04 08	704	0.0 0.2-
1998 12 17	704	(3.2- 0.4+)	2000 03 30	704	0.2+ 0.7+	2000 04 08	704	0.2+ 0.9-
1998 12 17	704	0.8- 1.0-	2000 04 07	704	0.1+ 0.0	2000 04 08	704	0.4- 0.3-
1998 12 17	704	0.5+ 0.1-	2000 04 07	704	0.3- 0.2-	2000 04 08	704	0.2- 1.3-
1998 12 17	704	0.8- 0.6-	2000 04 07	704	0.1+ 0.2+	2000 04 10	704	0.2- 0.0
2000 02 02	704	0.1- 0.1+	2000 04 07	704	0.1- 0.1-	2000 04 10	704	0.0 0.2+
2000 02 02	704	0.2- 0.0	2000 04 07	704	0.0 0.0	2000 04 10	704	0.0 0.0
2000 02 02	704	0.3+ 0.3-	2000 04 07	704	0.1+ 0.3-	2000 04 10	704	0.1- 0.1+
2000 03 04	703	0.4- 0.2+	2000 04 07	704	0.1+ 0.0	2000 04 10	704	0.5+ 0.1-
2000 03 04	703	0.0 0.1-	2000 04 07	704	0.4+ 0.8-			

2000 EF₁₁₆ = 1993 UT₅ = 1998 WF₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	259.38316		(2000.0)		P		Q
<i>n</i>	0.21323174	ω	185.48879	-0.21190407			+0.96205972
<i>a</i>	2.7748200	Ω	72.36486	-0.88964524			-0.11710407
<i>e</i>	0.1022632	<i>i</i>	10.38960	-0.40450960			-0.24642996
<i>P</i>	4.62	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1993 10 10	809	0.3+ 0.4-	1998 11 20	699	0.6+ 0.4+	2000 03 11	699	0.4- 0.4+
1993 10 10	809	0.8- 0.6-	1998 11 24	704	0.0 0.1-	2000 03 11	699	0.6- 0.4+
1993 10 10	809	0.2- 0.4-	1998 11 24	704	0.2+ 0.9-	2000 03 11	699	1.3- 1.6+
1993 10 20	809	1.2+ 0.7-	1998 11 24	704	0.9- 0.1-	2000 03 12	704	0.1- 0.7+
1993 10 20	809	0.6+ 0.2-	1998 11 24	704	(0.2+ 2.3+)	2000 03 12	704	1.1+ 0.4-
1993 10 20	809	0.8+ 0.0	1998 11 24	704	0.4- 0.6-	2000 03 12	704	0.7+ 1.0-
1993 10 21	809	0.2- 0.9+	2000 03 10	703	0.1+ 0.3+	2000 03 12	704	0.3- 0.9-
1993 10 21	809	0.3- 0.7+	2000 03 10	703	0.3- 0.3+	2000 03 12	704	0.0 0.7-
1993 10 21	809	1.3- 0.6+	2000 03 10	703	0.0 0.1+	2000 04 02	704	1.5+ 0.2+
1998 11 20	699	0.4+ 1.0+	2000 03 10	703	0.1- 0.3+	2000 04 02	704	0.5- 0.5-
1998 11 20	699	0.1+ 0.3+	2000 03 11	699	0.2- 0.0	2000 04 02	704	0.4+ 1.1-

2000 EF₁₁₇ = 1990 FO₅ = 1994 RN₁₁ = 1998 WG₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	329.06603		(2000.0)		P		Q
<i>n</i>	0.30141174	ω	211.43327	-0.55391743			+0.83196426
<i>a</i>	2.2030750	Ω	24.97357	-0.74739677			-0.48006020
<i>e</i>	0.1329311	<i>i</i>	4.31900	-0.36684268			-0.27816844
<i>P</i>	3.27	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1990 03 25	372	1.2+ 1.2+	2000 03 10	704	1.1+ 0.3+	2000 04 06	704	0.9+ 0.5-
1990 03 25	372	0.1- 0.8+	2000 03 10	704	1.1+ 1.2+	2000 04 06	704	0.2+ 0.5-
1994 09 09	587	0.8- 0.5+	2000 03 10	704	1.1+ 1.8+	2000 04 06	704	0.1- 0.1+
1994 09 09	587	0.5+ 0.4-	2000 03 12	699	0.3- 0.7-	2000 04 06	704	0.4+ 0.7-
1994 09 09	587	0.0 0.1+	2000 03 12	699	0.3- 0.1+	2000 04 06	704	0.1+ 0.5-
1994 09 10	587	0.4- 0.3-	2000 03 12	699	0.4- 0.2-	2000 04 08	704	0.1- 0.5-
1994 09 10	587	0.3+ 0.9+	2000 03 12	699	0.7- 0.2-	2000 04 08	704	1.0- 0.1-
1998 11 24	704	0.5- 0.6+	2000 03 14	704	0.6- 0.4+	2000 04 08	704	0.5- 0.3-
1998 11 24	704	1.7+ 1.4-	2000 03 14	704	0.4- 0.3-	2000 04 08	704	0.0 0.5-
1998 11 24	704	0.2- 0.7-	2000 03 14	704	0.1- 0.2+	2000 04 08	704	0.3- 0.2+
1998 11 24	704	0.6- 0.1-	2000 03 14	704	0.4- 0.2+			
2000 03 10	704	0.1- 0.6-	2000 03 14	704	0.8- 1.1-			

2000 EG₁₁₇ = 1998 UH₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	98.38220		(2000.0)		P		Q
<i>n</i>	0.21964917	ω	50.40688	+0.64721729			-0.76230391
<i>a</i>	2.7205059	Ω	359.25532	+0.65646681			+0.55841794
<i>e</i>	0.2322423	<i>i</i>	7.03680	+0.38750626			+0.32720354
<i>P</i>	4.49	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 10 28	704	0.1+ 0.4+	2000 02 27	703	0.7+ 0.4+	2000 04 03	691	0.1- 0.6-
1998 10 28	704	0.3+ 0.2-	2000 02 27	703	0.0 0.6+	2000 04 03	691	0.1+ 0.6-
1998 10 28	704	0.1- 0.5-	2000 03 10	608	(1.1- 2.1-)	2000 04 04	704	0.2+ 0.3+
1998 10 28	704	0.1+ 0.1+	2000 03 10	608	0.5- 1.1-	2000 04 04	704	0.2+ 0.4-
1998 10 29	704	0.1- 0.6+	2000 03 10	608	0.5- 1.5-	2000 04 04	704	0.1+ 0.9+
1998 10 29	704	0.0 0.8+	2000 03 11	704	0.3- 0.8+	2000 04 04	704	0.2+ 0.1+
1998 10 29	704	0.1+ 0.1+	2000 03 11	704	0.1+ 0.3-	2000 04 04	704	1.0+ 0.6+
1998 10 29	704	0.1- 0.1+	2000 03 11	704	0.0 0.4+	2000 04 05	704	0.3- 0.2-
1998 10 29	704	0.9- 0.4-	2000 03 11	704	0.4+ 0.5+	2000 04 05	704	0.4- 0.6+
1998 12 15	699	0.5+ 0.4-	2000 03 11	704	0.4+ 0.2-	2000 04 05	704	0.0 0.5+
1998 12 15	699	0.8+ 0.0	2000 03 25	691	0.2- 0.7-	2000 04 05	704	0.1+ 0.3+
1998 12 15	699	0.6- 0.6-	2000 03 25	691	0.5- 0.7-	2000 04 05	704	0.0 0.5+
2000 02 27	703	0.7- 1.2+	2000 03 25	691	0.4- 0.5-			
2000 02 27	703	0.6+ 0.1+	2000 04 03	691	0.1- 0.6-			

2000 ES₁₁₉ = 1998 XE₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	281.47154		(2000.0)		P		Q
<i>n</i>	0.18385673	ω	207.48815	-0.51580760			+0.85174798
<i>a</i>	3.0630190	Ω	31.71066	-0.75036422			-0.39733687
<i>e</i>	0.0453975	<i>i</i>	10.08264	-0.41339576			-0.34153885
<i>P</i>	5.36	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1992 10 23	010	0.9- 0.6+	1998 12 17	704	0.8- 0.3-	2000 03 11	699	0.2- 0.4+
1992 10 23	010	1.5- 0.9+	2000 02 03	704	0.4+ 0.2+	2000 03 12	704	0.2+ 0.5+
1992 10 23	691	0.6+ 0.1+	2000 02 03	704	0.7+ 0.3-	2000 03 12	704	0.3+ 0.2-
1992 10 23	691	0.1+ 0.2+	2000 02 03	704	1.0+ 0.0	2000 03 12	704	0.8+ 0.5-
1992 10 23	691	0.6+ 0.1+	2000 02 03	704	0.6+ 0.5+	2000 03 12	704	0.3+ 0.2-
1997 10 30	704	(1.6- 2.1+)	2000 02 03	704	0.0 0.2-	2000 03 12	704	0.4+ 0.3-
1997 10 30	704	0.2- 1.2+	2000 02 06	703	0.3- 0.4+	2000 04 02	704	0.4- 0.5+
1997 10 30	704	0.6- 0.3+	2000 02 06	703	0.7- 0.2+	2000 04 02	704	0.8- 0.1+
1997 10 30	704	(2.3- 1.6+)	2000 02 06	703	0.6- 0.4+	2000 04 02	704	1.2- 0.2-
1997 10 30	704	0.6- 0.5+	2000 02 06	703	0.1- 0.8+	2000 04 02	704	1.8- 0.4-
1998 12 14	704	(0.1- 2.1-)	2000 03 04	704	0.2- 0.2+	2000 04 03	704	0.6+ 0.9+
1998 12 14	704	1.2- 1.7-	2000 03 04	704	0.0 0.0	2000 04 03	704	1.2+ 0.4+
1998 12 14	704	0.9- 0.2+	2000 03 04	704	0.1+ 0.0	2000 04 03	704	1.1+ 0.0
1998 12 14	704	0.7+ 1.0-	2000 03 04	704	0.4+ 0.2-	2000 04 03	704	1.3+ 1.5-
1998 12 17	704	0.9+ 1.1-	2000 03 04	704	0.0 0.3-	2000 04 03	699	0.2+ 0.6+
1998 12 17	704	0.6+ 0.4-	2000 03 11	699	0.2+ 0.1+	2000 04 03	699	0.2- 0.4+
1998 12 17	704	0.3+ 0.3+	2000 03 11	699	0.4- 0.0	2000 04 03	699	0.0 0.2+
1998 12 17	704	1.1+ 1.1+	2000 03 11	699	0.1- 0.5+	2000 04 03	699	0.8- 0.8+

2000 EO₁₂₁ = 1998 VZ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	173.32318		(2000.0)		P		Q
<i>n</i>	0.23511558	ω	294.76648	+0.88736168			+0.44576533
<i>a</i>	2.5998509	Ω	39.05883	-0.32576219			+0.78697429
<i>e</i>	0.1605121	<i>i</i>	10.77702	-0.32629472			+0.42657326
<i>P</i>	4.19	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 08 31	704	0.3- 0.4-	1998 11 18	704	0.8+ 1.0-	2000 03 12	703	0.5+ 0.1-
1998 08 31	704	1.6+ 0.7-	1998 11 18	704	0.1+ 0.1+	2000 03 12	704	0.4- 0.5-
1998 08 31	704	0.3- 0.2+	1998 11 21	704	0.2- 0.6+	2000 03 12	704	0.4+ 0.3-
1998 08 31	704	0.9- 1.1+	1998 11 21	704	0.4+ 0.4+	2000 03 12	703	1.1+ 0.2-

1998 08 31	704	(4.1− 0.7+)	1998 11 21	704	0.7+ 1.3+	2000 03 12	704	0.3+ 0.9+
1998 11 10	704	0.1− 0.6−	1998 11 21	704	1.2+ 1.2+	2000 03 12	703	0.4+ 0.2+
1998 11 10	704	0.4− 1.1−	1998 11 21	704	0.3+ 1.5+	2000 03 12	704	0.4+ 0.0
1998 11 10	704	0.5+ 1.9−	2000 03 04	704	1.0− 0.6−	2000 03 12	704	0.5+ 0.0
1998 11 10	704	0.7+ 1.2−	2000 03 04	704	0.3− 1.3+	2000 04 02	704	0.5− 0.5−
1998 11 11	704	0.4− 0.3+	2000 03 04	704	0.5− 1.5+	2000 04 02	704	1.0− 0.5+
1998 11 11	704	0.3− 0.0	2000 03 04	704	0.3− 0.7+	2000 04 02	704	1.2+ 1.0−
1998 11 11	704	0.2− 0.8−	2000 03 11	699	0.5+ 0.7+	2000 04 02	704	0.7− 0.7−
1998 11 11	704	1.1− 0.6−	2000 03 11	699	0.4+ 0.0	2000 04 03	704	0.7− 0.3+
1998 11 18	704	1.3− 0.9+	2000 03 11	699	0.3+ 0.2−	2000 04 03	704	0.4− 0.8−
1998 11 18	704	0.6− 0.8+	2000 03 11	699	0.1− 0.1+	2000 04 03	704	0.3− 0.1−
1998 11 18	704	0.2− 0.3−	2000 03 12	703	0.8+ 1.0−	2000 04 03	704	1.0− 0.6−

2000 EH₁₂₂ = 1997 PO₃ = 1997 PJ₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	33.79367		(2000.0)		P	Q	
n	0.18493844	ω	5.52707		-0.56733276	-0.82213578	
a	3.0510636	Ω	119.04591		+0.75345322	-0.54135291	
e	0.0331873	i	3.09386		+0.33232783	-0.17615276	
P	5.33	H	13.9	G	0.15	U	4

Residuals in seconds of arc

1997 08 05	327	0.8− 0.1+	2000 03 11	699	0.4− 0.5+	2000 03 28	704	0.4− 0.1−
1997 08 05	327	0.0 0.0	2000 03 11	699	0.5− 0.8+	2000 03 28	704	0.3+ 0.7+
1997 08 05	327	0.4− 0.5−	2000 03 11	049	0.1− 0.3−	2000 03 28	704	1.2+ 0.1−
1997 08 10	327	0.2+ 0.1+	2000 03 11	049	0.1+ 0.6−	2000 04 03	699	0.3+ 0.1+
1997 08 10	327	0.4+ 0.2+	2000 03 11	049	0.5+ 0.5−	2000 04 03	699	0.2− 0.8−
1997 08 13	327	0.4+ 0.8+	2000 03 12	704	0.6+ 0.4+	2000 04 03	699	0.9+ 0.0
1997 08 13	327	0.5+ 0.2−	2000 03 12	704	0.1+ 0.6−	2000 04 03	699	0.1− 0.4+
1997 08 13	327	0.0 0.3−	2000 03 12	704	0.3+ 0.2+	2000 04 03	704	0.2− 0.5−
1997 08 13	327	0.4− 0.3+	2000 03 12	704	0.0 0.2−	2000 04 03	704	0.6− 0.1−
2000 03 11	699	0.2− 0.3+	2000 03 12	704	0.0 0.1+	2000 04 03	704	0.8− 0.4−
2000 03 11	699	0.2− 0.2+	2000 03 28	704	0.6− 0.4−	2000 04 03	704	0.2+ 1.6+

2000 EL₁₂₆ = 1994 NM₉ = 1998 TP₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	290.48115		(2000.0)		P		Q
n	0.29856693	ω	141.85681		-0.42580021		+0.90315279
a	2.2170471	Ω	102.88143		-0.84336587		-0.37418997
e	0.0685352	i	3.22588		-0.32776239		-0.21046830
P	3.30	H	15.2	G	0.15	U	4

Residuals in seconds of arc

1994 07 08	809	0.8− 0.9−	2000 03 02	703	0.5− 0.4+	2000 04 03	704	0.3− 0.6−
1994 07 08	809	0.8− 0.1−	2000 03 02	703	0.4− 1.0+	2000 04 03	704	0.4− 0.2−
1994 07 08	809	1.5+ 1.5−	2000 03 11	699	0.2− 0.4+	2000 04 03	704	1.2+ 0.0
1994 07 09	809	0.1− 1.3+	2000 03 11	699	0.2+ 0.5+	2000 04 03	704	0.8− 0.4+
1994 07 09	809	0.8+ 1.8+	2000 03 11	699	0.1+ 0.3+	2000 04 03	704	0.9− 0.4+
1994 07 09	809	0.5− 0.7+	2000 03 11	699	0.4+ 0.4+	2000 04 08	704	0.9− 0.7+
1998 10 14	699	1.0− 0.3+	2000 03 12	704	0.0 0.1+	2000 04 08	704	0.8+ 0.6−
1998 10 14	699	1.5− 0.4−	2000 03 12	704	0.1+ 0.2+	2000 04 08	704	0.2− 0.3+
1998 10 14	699	0.0 0.4+	2000 03 12	704	0.2+ 0.8+	2000 04 08	704	0.0 0.1+
1998 10 20	699	1.8+ 0.4−	2000 03 12	704	1.2+ 0.2−	2000 04 08	704	0.3− 1.0−
1998 10 20	699	0.4+ 0.4+	2000 03 12	704	0.2+ 1.4+	2000 04 13	608	0.0 1.2−
1998 10 20	699	0.1+ 0.3+	2000 03 28	704	0.0 0.5−	2000 04 13	608	0.5− 0.6−
2000 03 02	703	1.3+ 0.2+	2000 03 28	704	0.7+ 0.2−	2000 04 13	608	1.2− 1.5−
2000 03 02	703	0.3+ 0.1+	2000 03 28	704	0.2+ 0.4−			

2000 EX₁₂₆ = 1994 UF₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	223.52923		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.27041291	ω	286.23903		+0.70683848		+0.70396834
a	2.3683785	Ω	29.12660		−0.58235159		+0.63475233
e	0.1340683	i	8.19001		−0.40155447		+0.31861899
P	3.64	H	14.2	G	0.15	U	3

Residuals in seconds of arc

1994 10 26	691	0.2− 0.4+	2000 03 11	699	0.6− 0.3+	2000 03 29	704	1.1− 0.0
1994 10 26	691	0.6− 0.5+	2000 03 11	699	0.7− 0.3+	2000 03 29	704	0.1− 0.1−
1994 10 26	691	0.5− 0.4+	2000 03 11	699	0.0 0.5+	2000 04 03	704	0.1+ 1.0+
1994 11 01	691	0.2− 0.6+	2000 03 12	704	0.4+ 0.3−	2000 04 03	704	0.5− 0.5+
1994 11 01	691	0.2− 0.7+	2000 03 12	704	0.1+ 0.3+	2000 04 03	704	0.5+ 0.5+
1994 11 01	691	0.2− 0.6+	2000 03 12	704	1.5− 0.3−	2000 04 03	704	0.3+ 0.2−
1998 12 17	704	0.1− 1.0−	2000 03 12	704	0.2− 0.7−	2000 04 03	704	0.4+ 0.7+
1998 12 17	704	1.6− 1.4+	2000 03 12	704	0.0 1.3−	2000 04 08	704	0.1− 0.0
1998 12 17	704	0.9+ 0.8−	2000 03 14	608	0.3− 0.3−	2000 04 08	704	0.9+ 0.2+
1998 12 17	704	0.5+ 0.9−	2000 03 14	608	0.5− 1.7−	2000 04 08	704	0.3+ 0.1+
1998 12 17	704	0.8+ 0.3−	2000 03 14	608	0.4− 0.5−	2000 04 08	704	0.0 0.5+
2000 02 29	704	1.1+ 0.2+	2000 03 28	704	0.3− 0.2−	2000 04 08	704	0.8+ 0.8−
2000 02 29	704	0.2− 0.1−	2000 03 28	704	0.5− 0.6+	2000 04 10	704	1.4+ 0.2+
2000 02 29	704	0.7+ 0.4−	2000 03 28	704	0.1− 0.3+	2000 04 10	704	0.9+ 0.9+
2000 02 29	704	0.3+ 0.3+	2000 03 29	704	0.2+ 0.0	2000 04 10	704	0.2+ 0.1−
2000 03 11	699	0.0 0.3+	2000 03 29	704	0.1− 1.2+	2000 04 10	704	0.3+ 1.0+

2000 EZ₁₂₇ = 1995 KC₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	82.20366		(2000.0)		P		Q
n	0.17410337	ω	352.74320		+0.11432441		−0.99242758
a	3.1763714	Ω	90.68479		+0.91370870		+0.08729388
e	0.0641191	i	2.57454		+0.38995685		+0.08641345
P	5.66	H	14.1	G	0.15	U	6

Residuals in seconds of arc

1995 05 27	691	0.8− 0.0	2000 03 11	699	0.2− 0.5+	2000 03 12	704	0.2+ 0.8−
1995 05 27	691	0.8− 0.4−	2000 03 11	699	0.9− 0.3−	2000 03 12	704	0.5+ 0.3+
1995 05 27	691	0.9− 0.1+	2000 03 11	699	0.7− 0.1+	2000 03 12	704	1.1+ 0.5−
1995 05 30	691	0.9+ 0.1−	2000 03 11	699	0.6− 0.4+	2000 04 04	734	0.1+ 0.1+
1995 05 30	691	0.7+ 0.2+	2000 03 12	704	0.3+ 0.0	2000 04 04	734	0.3+ 0.1+
1995 05 30	691	0.8+ 0.1+	2000 03 12	704	0.3+ 0.2−	2000 04 04	734	0.4− 0.3+

2000 EA₁₂₈ = 1998 SW₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	55.95561		(2000.0)		P		Q
n	0.26471403	ω	325.65683		−0.32741362		−0.94311049
a	2.4022493	Ω	143.35903		+0.88720046		−0.32790260
e	0.0568742	i	5.55956		+0.32507794		−0.05497724
P	3.72	H	15.7	G	0.15	U	4

Residuals in seconds of arc

1998 09 20	809	0.2+ 0.2−	2000 03 12	703	0.2+ 0.0	2000 03 26	699	1.4+ 0.5+
1998 09 20	809	0.7− 0.2+	2000 03 12	703	0.3+ 0.8+	2000 03 26	699	0.4+ 0.3−
1998 09 20	809	0.8− 0.7−	2000 03 12	703	0.0 0.1−	2000 03 28	704	0.7+ 0.6−
1998 09 21	809	0.6+ 0.6−	2000 03 12	703	0.9+ 0.6+	2000 03 28	704	1.1− 1.1−
1998 09 21	809	0.3+ 0.4+	2000 03 12	704	(0.4− 2.7−)	2000 03 28	704	1.9− 0.5+
1998 09 21	809	0.5+ 0.8+	2000 03 12	704	0.1+ 0.9−	2000 04 02	699	0.3− 1.5+
2000 03 11	699	0.0 0.0	2000 03 12	704	0.7− 0.1−	2000 04 02	699	1.0+ 0.3−
2000 03 11	699	0.1− 0.2−	2000 03 12	704	1.0− 0.8−	2000 04 02	699	0.1+ 0.0
2000 03 11	699	0.1+ 0.2+	2000 03 26	699	1.2− 0.3−	2000 04 02	699	0.4+ 0.2−
2000 03 11	699	0.4+ 0.5+	2000 03 26	699	0.2+ 0.3+			

2000 EE₁₂₈ = 1998 XS₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	168.31286		(2000.0)		P		Q
n	0.21431664	ω	302.45817		+0.99748169		−0.04661476
a	2.7654477	Ω	60.26432		+0.06496930		+0.90284140
e	0.0654899	i	3.52937		−0.02844755		+0.42743943
P	4.60	H	14.4	G	0.15	U	5

Residuals in seconds of arc

1998 12 14	704	0.4+ 0.2−	1998 12 17	704	1.8− 0.3+	2000 03 12	704	1.1− 0.7−
1998 12 14	704	0.1+ 0.6+	2000 02 11	704	0.7+ 0.5+	2000 03 12	704	0.1+ 0.8−

2000 APR. 18

M.P.C. 40195

1998 12 14	704	0.7−	0.1−	2000 02 11	704	0.7+	0.2+	2000 04 02	699	0.1−	0.7+
1998 12 14	704	1.0−	0.7−	2000 02 11	704	0.2+	0.2−	2000 04 02	699	1.2−	0.2+
1998 12 16	704	0.9+	0.5−	2000 02 11	704	1.7−	0.1+	2000 04 02	699	0.2−	0.5+
1998 12 16	704	1.3+	0.4+	2000 03 11	699	0.7+	0.3+	2000 04 02	699	0.9−	0.1+
1998 12 16	704	1.0+	0.6+	2000 03 11	699	0.1−	0.1+	2000 04 08	704	1.1+	0.2−
1998 12 16	704	0.9+	1.1−	2000 03 11	699	0.1−	0.4−	2000 04 08	704	0.4+	0.4−
1998 12 17	704	0.6+	0.5+	2000 03 11	699	0.4+	0.1−	2000 04 08	704	0.0	0.6+
1998 12 17	704	1.6−	0.4−	2000 03 12	704	0.8+	0.3−	2000 04 08	704	0.9+	0.3+
1998 12 17	704	1.7+	0.7+	2000 03 12	704	0.5−	0.5−				

2000 EW₁₂₈ = 1993 TG₄₁ = 1996 HK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	316.86955		(2000.0)	P	Q		
<i>n</i>	0.23314984	ω	203.58618	−0.60757769	+0.79277035		
<i>a</i>	2.6144437	Ω	29.06963	−0.71186377	−0.51637237		
<i>e</i>	0.1965081	<i>i</i>	5.74380	−0.35227735	−0.32384371		
<i>P</i>	4.23	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	1.5+	0.2−	2000 03 11	699	0.1−	1.1+	2000 04 05	704	0.9−	0.4−
1993 10 09	809	0.2+	0.5−	2000 03 11	699	0.1−	0.8+	2000 04 05	704	0.5−	0.2−
1993 10 09	809	0.9+	0.9+	2000 03 12	704	0.2+	0.4+	2000 04 05	704	0.6−	0.3−
1993 10 11	809	(2.2−	1.8−)	2000 03 12	704	0.8+	1.1+	2000 04 05	704	0.8−	0.3−
1993 10 11	809	1.1−	1.3−	2000 03 12	704	0.1−	0.7+	2000 04 05	704	0.0	0.1−
1993 10 11	809	0.7−	0.3−	2000 03 12	704	0.1+	0.8+	2000 04 07	049	0.4+	0.8−
1993 10 12	809	0.7+	0.1+	2000 03 12	704	0.4+	0.6+	2000 04 08	049	0.7+	0.9−
1993 10 12	809	(2.3−	0.3+)	2000 03 26	699	0.1+	0.1+	2000 04 08	049	0.3+	1.0−
1993 10 12	809	0.7−	0.1−	2000 03 26	699	0.1+	0.0	2000 04 08	704	0.1−	0.3−
1996 03 24	809	0.6+	0.8−	2000 03 26	699	0.0	0.1+	2000 04 08	704	0.4−	0.3−
1996 03 24	809	0.1−	1.0−	2000 03 26	699	0.3+	0.1+	2000 04 08	704	0.5−	0.3+
1996 03 24	809	0.5+	0.7−	2000 03 28	704	0.5−	0.2+	2000 04 08	704	0.6−	0.5+
1996 04 17	809	(1.7+	3.2+)	2000 03 28	704	0.2+	0.6+	2000 04 08	704	0.4−	0.3+
1996 04 17	809	(0.3+	2.6+)	2000 03 28	704	0.5+	0.6+	2000 04 09	049	0.2+	0.6−
1996 04 17	809	(0.3+	2.5+)	2000 03 28	049	0.3+	0.5−	2000 04 09	049	0.1+	0.5−
1996 04 18	809	0.0	1.3+	2000 03 28	049	0.0	0.6−	2000 04 09	049	0.2+	0.9−
1996 04 18	809	0.4−	0.9+	2000 03 28	049	0.1−	0.7−	2000 04 10	704	0.0	0.2−
1996 04 18	809	0.1−	0.9+	2000 03 31	049	0.8+	0.8−	2000 04 10	704	0.8−	0.5−
2000 03 11	699	0.1+	1.1+	2000 03 31	049	0.9+	0.7−	2000 04 10	704	0.6−	0.5−
2000 03 11	699	0.4−	1.2+	2000 03 31	049	0.9+	0.7−	2000 04 10	704	1.0−	0.9−

2000 EX₁₂₈ = 1979 OC₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	184.57796		(2000.0)	P	Q		
<i>n</i>	0.22143052	ω	196.78223	+0.98405769	+0.15857557		
<i>a</i>	2.7058958	Ω	153.68359	−0.13505651	+0.96088535		
<i>e</i>	0.1127046	<i>i</i>	10.46513	−0.11571601	+0.22705314		
<i>P</i>	4.45	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1979 07 24	413	0.3−	0.2−	2000 03 11	699	0.9+	0.4+	2000 04 07	699	1.1−	0.2+
1979 07 26	675	0.9+	1.2+	2000 03 12	703	0.4−	0.1−	2000 04 07	699	0.9−	0.3+
1979 07 28	413	0.7−	0.4+	2000 03 12	703	0.1+	0.8+	2000 04 08	704	0.9+	0.1−
1998 12 22	704	0.1−	0.6+	2000 03 12	703	(2.5−	0.5−)	2000 04 08	704	0.1+	0.0
1998 12 22	704	0.9+	0.5−	2000 03 12	703	0.9−	1.1+	2000 04 08	704	0.1−	0.2−
1998 12 22	704	1.3−	1.5+	2000 04 03	704	1.1−	0.2+	2000 04 08	704	0.5−	0.4−
1998 12 22	704	0.4+	0.7−	2000 04 03	704	0.1−	0.4−	2000 04 08	704	0.1+	0.5−
2000 03 11	699	1.2+	0.1+	2000 04 03	704	0.1+	0.5+	2000 04 10	608	0.3+	1.6−
2000 03 11	699	0.7+	0.9+	2000 04 07	699	0.2−	0.6+	2000 04 10	608	0.3+	0.8−
2000 03 11	699	0.9+	0.7+	2000 04 07	699	0.2+	0.2+	2000 04 10	608	0.1−	1.3−

2000 EA₁₂₉ = 1998 WK₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	88.78973		(2000.0)	P	Q		
<i>n</i>	0.20454001	ω	310.74698	+0.35761648	−0.93260380		
<i>a</i>	2.8528824	Ω	118.23680	+0.87256909	+0.31515118		
<i>e</i>	0.1085943	<i>i</i>	3.16139	+0.33276664	+0.17586894		
<i>P</i>	4.82	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 23	699	0.4−	0.4−	1998 12 08	699	0.1+	0.1−	2000 03 28	704	0.4+	1.3−
1998 11 23	699	1.0+	0.2+	2000 03 11	699	0.7−	0.2+	2000 03 28	704	0.2−	0.3−
1998 11 23	699	0.5−	0.3+	2000 03 11	699	0.3−	0.1−	2000 03 28	704	1.6−	1.5+
1998 11 24	704	0.4+	0.7−	2000 03 11	699	0.3+	0.3−	2000 04 08	704	1.0−	0.9−
1998 11 24	704	0.1+	0.0	2000 03 11	699	0.7−	0.7−	2000 04 08	704	0.5+	0.2−
1998 11 24	704	0.4−	0.3−	2000 03 12	704	1.4+	1.0+	2000 04 08	704	0.8+	0.3−
1998 11 24	704	0.4−	0.6−	2000 03 12	704	0.3−	0.3−	2000 04 08	704	0.3+	1.1+
1998 11 24	704	0.4+	1.5+	2000 03 12	704	0.4+	0.0	2000 04 10	704	0.5−	0.4−
1998 12 08	699	0.6+	0.6+	2000 03 12	704	0.8+	0.3+	2000 04 10	704	0.5−	0.5+
1998 12 08	699	0.9−	0.5−	2000 03 12	704	0.2−	0.4+	2000 04 10	704	1.1+	0.2−

2000 EJ₁₂₉ = 1998 WD₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	112.77934		(2000.0)	P	Q		
<i>n</i>	0.23251166	ω	22.85644	+0.62854467	−0.77709059		
<i>a</i>	2.6192255	Ω	28.23287	+0.70252805	+0.54926019		
<i>e</i>	0.0624289	<i>i</i>	3.94983	+0.33374532	+0.30731655		
<i>P</i>	4.24	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 18	704	0.5−	0.9−	1998 11 24	704	1.5+	0.3−	2000 03 12	704	0.8+	0.8+
1998 11 18	704	1.2−	0.3−	1998 11 24	704	1.5−	2.0+	2000 03 12	704	0.2−	0.4+
1998 11 18	704	0.4−	0.4+	2000 03 11	699	0.2+	0.3−	2000 03 29	704	0.9−	0.2−
1998 11 18	704	0.3+	1.0+	2000 03 11	699	0.1−	0.3−	2000 03 29	704	0.2−	0.2+
1998 11 21	704	1.3+	1.1−	2000 03 11	699	0.8−	0.4+	2000 03 29	704	0.2+	0.4−
1998 11 21	704	1.6+	0.6−	2000 03 11	699	0.0	1.0−	2000 04 03	704	0.4+	0.2+
1998 11 21	704	0.8−	0.6−	2000 03 12	704	0.2−	0.3+	2000 04 03	704	0.1+	0.4+
1998 11 24	704	0.3−	0.5+	2000 03 12	704	0.3+	0.2+	2000 04 03	704	0.3+	1.3−
1998 11 24	704	(0.2+	2.3+)	2000 03 12	704	0.5+	0.3−	2000 04 03	704	0.4−	0.7+

2000 EM₁₂₉ = 1996 AM₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	26.73218		(2000.0)	P	Q		
<i>n</i>	0.26387783	ω	351.21550	−0.70108369	−0.71207428		
<i>a</i>	2.4073216	Ω	143.28381	+0.65802203	−0.66648780		
<i>e</i>	0.1250777	<i>i</i>	3.62888	+0.27475201	−0.22078095		
<i>P</i>	3.74	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 01 13	691	0.1−	0.0	2000 03 06	608	0.2−	0.0	2000 04 02	699	1.1+	0.4+
1996 01 13	691	0.2−	0.0	2000 03 06	608	0.6−	0.8−	2000 04 02	699	1.2+	0.2−
1996 01 13	691	0.1−	0.0	2000 03 06	608	0.3−	0.1−	2000 04 02	699	0.4+	0.5+
1996 01 19	691	0.0	0.1+	2000 03 11	699	0.2+	0.2+	2000 04 02	699	0.2−	0.9−
1996 01 19	691	0.3+	0.1−	2000 03 11	699	0.3−	0.4+	2000 04 10	704	0.6+	0.2+
1996 01 19	691	0.2+	0.1+	2000 03 11	699	0.2+	0.6+	2000 04 10	704	0.5−	1.1+
2000 03 02	703	0.4−	0.4−	2000 03 11	699	0.3+	0.2−	2000 04 10	704	1.0−	0.2+
2000 03 02	703	0.2+	0.1−	2000 03 12	704	0.3−	0.1−	2000 04 10	704	0.4−	0.4−
2000 03 02	703	0.8+	0.6−	2000 03 12	704	0.3−	0.9+	2000 04 10	704	0.6−	1.3−
2000 03 02	703	0.1−	0.1+	2000 03 12	704	0.1+	0.6+				

2000 EU₁₂₉ = 1997 UW₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	300.22679	(2000.0)	P		Q	
<i>n</i>	0.18716482	ω	224.94165	-0.52306725	+0.85116399	
<i>a</i>	3.0268198	Ω	13.71394	-0.72078995	-0.41433789	
<i>e</i>	0.0785601	<i>i</i>	10.65248	-0.45482139	-0.32224831	
<i>P</i>	5.27	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1997 10 25	688	0.2+	0.3+	2000 03 12	704	0.0	0.3-	2000 04 05	704	0.4+	0.9+
1997 10 25	688	0.2+	0.0	2000 03 12	704	0.1-	0.3-	2000 04 08	704	0.3-	0.3-
1997 10 26	688	0.2-	0.2-	2000 03 12	704	0.7-	0.4-	2000 04 08	704	0.4+	0.5+
1997 10 26	688	0.3-	0.2-	2000 03 28	704	0.4+	0.2-	2000 04 08	704	0.1+	0.8+
2000 03 02	703	0.3+	0.0	2000 03 28	704	0.1+	0.0	2000 04 08	704	0.2-	0.9+
2000 03 02	703	0.7+	0.1+	2000 03 28	704	0.2+	0.1+	2000 04 08	704	0.4-	0.4+
2000 03 02	703	0.2-	0.4+	2000 03 28	704	0.0	0.0	2000 04 10	704	0.7+	0.3+
2000 03 02	703	1.3+	0.5+	2000 04 02	699	0.2+	0.0	2000 04 10	704	0.0	0.0
2000 03 11	699	0.4-	0.2-	2000 04 02	699	0.4+	0.4+	2000 04 10	704	0.8-	0.9-
2000 03 11	699	0.9-	0.2-	2000 04 02	699	0.0	0.1-	2000 04 10	704	0.3-	0.5-
2000 03 11	699	0.4-	0.9-	2000 04 02	699	0.1-	0.4+	2000 04 11	608	0.2-	1.0-
2000 03 11	699	0.3-	0.2-	2000 04 05	704	0.1-	0.1-	2000 04 11	608	0.2+	0.5-
2000 03 12	704	0.1+	0.4+	2000 04 05	704	0.1+	0.1-	2000 04 11	608	0.1+	0.8-
2000 03 12	704	0.5-	0.0	2000 04 05	704	0.1+	0.6+				

2000 EA₁₃₀ = 1997 PN₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	303.30412	(2000.0)	P		Q	
<i>n</i>	0.26580938	ω	107.20070	-0.49032256	+0.87058322	
<i>a</i>	2.3956453	Ω	133.36536	-0.81945642	-0.44455356	
<i>e</i>	0.1343233	<i>i</i>	3.22109	-0.29677424	-0.21084823	
<i>P</i>	3.71	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1995 11 27	691	0.0	0.0	2000 03 02	703	0.3+	0.3-	2000 03 12	704	0.3-	1.0+
1995 11 27	691	0.3+	0.1+	2000 03 10	608	0.9+	2.0-	2000 04 05	704	0.2+	0.2-
1995 11 27	691	0.2-	0.1+	2000 03 10	608	1.3+	1.7-	2000 04 05	704	0.1+	0.0
1997 08 01	691	0.0	0.2+	2000 03 10	608	(0.3+	2.2-)	2000 04 05	704	0.1-	0.2+
1997 08 01	691	0.2+	0.3+	2000 03 11	699	0.0	0.1-	2000 04 08	704	0.1-	0.2-
1997 08 01	691	0.2+	0.1+	2000 03 11	699	0.1+	0.4-	2000 04 08	704	0.1-	0.3+
1997 08 07	691	0.4+	0.3-	2000 03 11	699	0.3-	0.1+	2000 04 08	704	0.3-	0.6-
1997 08 07	691	0.6-	0.0	2000 03 11	699	0.3-	0.2+	2000 04 08	704	0.3+	0.3+
1997 08 07	691	0.3-	0.3-	2000 03 12	704	0.1-	0.1+	2000 04 08	704	0.4+	0.6-
2000 03 02	703	0.3+	0.6+	2000 03 12	704	0.7-	0.0	2000 04 10	704	0.5+	0.2-
2000 03 02	703	0.2+	1.3+	2000 03 12	704	0.7-	0.3+	2000 04 10	704	0.2-	0.2+
2000 03 02	703	0.9-	0.6-	2000 03 12	704	0.4-	0.4+	2000 04 10	704	0.1-	1.7+

2000 EC₁₃₀ = 1990 SP₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	249.45900	(2000.0)	P		Q	
<i>n</i>	0.26871136	ω	245.70876	+0.51192357	+0.85824996	
<i>a</i>	2.3783661	Ω	55.13301	-0.77107775	+0.47788370	
<i>e</i>	0.1937326	<i>i</i>	2.55832	-0.37864675	+0.18717418	
<i>P</i>	3.67	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 2	

Residuals in seconds of arc

1990 09 15	809	1.6-	0.6+	1998 12 17	704	0.4+	0.9-	2000 03 12	704	0.0	0.4+
1990 09 15	809	(2.2-	0.8+)	1998 12 17	704	0.2-	0.1+	2000 04 02	699	0.9-	1.0+
1990 09 15	809	(2.7-	1.1+)	2000 02 11	704	0.1+	0.8+	2000 04 02	699	1.1-	0.6+
1990 09 15	809	1.5-	1.0+	2000 02 11	704	0.9+	1.5+	2000 04 02	699	0.1+	0.4+
1990 09 15	809	1.2-	1.0+	2000 02 11	704	(0.7+	3.0+)	2000 04 02	699	0.2-	0.3+
1990 09 15	809	0.7-	0.9+	2000 02 11	704	1.3+	1.5+	2000 04 05	704	0.5-	0.7+
1990 09 16	809	0.4-	1.7+	2000 03 02	703	0.2-	0.8-	2000 04 05	704	(0.1-	2.3+)
1990 09 16	809	0.1+	1.9+	2000 03 02	703	1.5+	1.2+	2000 04 05	704	0.3+	0.6+
1990 09 16	809	0.8+	1.7+	2000 03 02	703	0.4+	0.7-	2000 04 05	704	0.6-	1.3+
1990 09 22	809	0.3-	0.2+	2000 03 02	703	1.3+	0.4+	2000 04 06	012	1.9-	0.2-

1990 09 22	809	0.0	0.2-	2000 03 05	608	0.1+	0.8-	2000 04 06	012	1.0-	0.3-
1990 09 22	809	0.3+	0.6+	2000 03 05	608	0.5+	0.3-	2000 04 08	704	0.0	0.5-
1990 09 25	809	(1.0-	2.6+)	2000 03 05	608	0.5+	0.1-	2000 04 08	704	0.3+	0.3+
1990 09 25	809	(0.6-	2.1+)	2000 03 11	699	1.1+	0.4+	2000 04 08	704	0.7+	0.1+
1990 09 25	809	(0.2-	3.2+)	2000 03 11	699	0.2+	0.1+	2000 04 08	704	0.3+	0.2-
1991 12 13	691	0.0	0.3+	2000 03 11	699	0.2+	0.1+	2000 04 08	704	0.7+	0.3+
1991 12 13	691	0.0	0.2+	2000 03 11	699	0.2+	0.1+	2000 04 10	704	0.3+	0.9+
1991 12 13	691	0.3+	0.7-	2000 03 12	704	0.2-	0.4+	2000 04 10	704	0.8+	0.2+
1998 12 17	704	0.9+	0.3+	2000 03 12	704	0.3-	0.3-	2000 04 10	704	0.5+	1.1+
1998 12 17	704	0.8+	0.2-	2000 03 12	704	0.3-	0.1+	2000 04 10	704	0.4+	1.2+
1998 12 17	704	1.6-	0.6-	2000 03 12	704	0.3-	0.2-				

2000 EG₁₃₀ = 1995 UQ₃₉ = 1998 SV₁₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	6.37454	(2000.0)	P		Q	
<i>n</i>	0.30884938	ω	128.24039	-0.92865316	-0.37011477	
<i>a</i>	2.1675622	Ω	30.06049	+0.32294430	-0.83963907	
<i>e</i>	0.0834375	<i>i</i>	2.84551	+0.18251105	-0.39751891	
<i>P</i>	3.19	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1995 10 22	691	0.1+	0.4-	1998 09 27	704	(2.2-	2.8-)	2000 03 11	699	0.0	0.1+
1995 10 22	691	0.0	0.6-	1998 09 27	704	0.5-	0.1-	2000 03 11	699	0.1-	0.2-
1995 10 22	691	0.3+	0.0	1998 09 27	704	1.0-	1.0+	2000 03 12	704	0.4-	0.1-
1995 10 28	691	0.0	0.4+	1998 09 27	704	0.0	1.2+	2000 03 12	704	0.5-	0.2-
1995 10 28	691	0.1-	0.1+	2000 02 11	704	1.3+	0.4+	2000 03 12	704	0.6-	0.2-
1995 10 28	691	0.3-	0.3+	2000 02 11	704	0.0	0.2+	2000 03 12	704	0.0	0.1-
1998 09 26	704	0.2-	0.3-	2000 02 11	704	0.1+	0.2-	2000 03 12	704	1.1-	0.2-
1998 09 26	704	1.5+	0.8-	2000 02 11	704	0.1-	0.8+	2000 04 05	704	1.5+	0.8-
1998 09 26	704	1.5+	0.6-	2000 02 26	703	0.2-	0.3+	2000 04 05	704	0.6-	0.3-
1998 09 26	704	0.1-	0.4+	2000 02 26	703	0.4-	0.5-	2000 04 05	704	0.2-	0.3+
1998 09 26	704	0.5-	0.4+	2000 02 26	703	0.7+	0.3-	2000 04 05	704	0.0	0.1+
1998 09 26	704	1.9-	1.4+	2000 02 26	703	0.3-	0.4-	2000 04 05	704	0.1+	0.2-
1998 09 26	704	(0.2-	2.5+)	2000 03 02	703	0.9+	0.9-	2000 04 08	704	0.1-	0.2+
1998 09 26	704	0.7-	1.1+	2000 03 02	703	0.1-	0.1-	2000 04 08	704	0.2+	0.0
1998 09 27	704	0.9-	0.5-	2000 03 02	703	0.2-	0.3+	2000 04 08	704	0.2+	0.3-
1998 09 27	704	1.9+	1.6-	2000 03 02	703	0.0	0.5+	2000 04 08	704	0.2+	0.2+
1998 09 27	704	0.5+	0.9-	2000 03 11	699	0.0	0.3+	2000 04 08	704	0.1+	0.6+
1998 09 27	704	0.8+	1.2-	2000 03 11	699	0.2-	0.1+				

2000 EQ₁₃₀ = 1997 XF = 1998 XF₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	203.58556	(2000.0)	P		Q	
<i>n</i>	0.20595192	ω	196.33386	+0.86043600	+0.50814706	
<i>a</i>	2.8398288	Ω	133.06284	-0.46151590	+0.80868108	
<i>e</i>	0.0708919	<i>i</i>	2.97359	-0.21599296	+0.29634689	
<i>P</i>	4.79	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 1	

Residuals in seconds of arc

1996 05 22	566	0.3-	0.2-	1998 12 22	704	0.2+	0.1-	2000 03 11	699	0.1+	0.2-
1996 05 22	566	0.1+	0.0	1998 12 22	704	0.6+	1.3-	2000 03 11	699	0.7+	0.3+
1996 05 22	566	0.7-	0.5-	1998 12 22	704	0.6+	0.8+	2000 03 12	704	0.0	0.4+
1996 06 21	566	0.3+	1.1-	1998 12 22	704	1.1-	0.1-	2000 03 12	704	0.5-	0.4+
1996 06 21	566	0.2+	1.0-	2000 02 26	703	0.2+	0.6-	2000 03 12	704	0.4+	0.6+
1996 06 21	566	0.5-	1.0-	2000 02 26	703	0.4+	0.5-	2000 03 12	704	0.1+	0.7+
1997 08 05	327	0.1+	0.2-	2000 02 26	703	0.7-	0.4+	2000 03 12	704	0.6+	0.8+
1997 08 05	327	0.5+	0.0	2000 02 26	703	(0.9+	2.9+)	2000 03 14	608	0.3-	0.0
1997 08 05	327	0.1+	0.3+	2000 03 02	703	0.5+	0.4+	2000 03 14	608	0.1-	0.

2000 APR. 18

M.P.C. 40197

1998 12 15 704 0.3+ 1.3- 2000 03 11 699 0.7+ 0.0 2000 04 10 704 0.8- 0.3+
 1998 12 15 704 (2.4+ 0.6-) 2000 03 11 699 0.2+ 0.0 2000 04 10 704 0.6- 0.6+

2000 EX₁₃₀ = 1978 WL₁₃ = 1998 YP₁₈
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	311.01094	(2000.0)	P	Q			
<i>n</i>	0.24521839	ω	95.05203	-0.68521231	+0.72738650		
<i>a</i>	2.5279435	Ω	131.62256	-0.68646505	-0.62784009		
<i>e</i>	0.0949213	<i>i</i>	2.86180	-0.24341286	-0.27699403		
<i>P</i>	4.02	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1978 11 29	675	0.7-	0.4+	2000 03 02	703	0.5+	0.5-	2000 03 28	704	1.6+	0.7-
1978 11 30	675	0.5+	1.3+	2000 03 11	699	0.1+	0.4+	2000 04 05	704	0.2+	0.4-
1998 12 25	691	0.4+	0.4-	2000 03 11	699	0.7-	0.5+	2000 04 05	704	0.8-	0.3+
1998 12 25	691	0.4+	0.2-	2000 03 11	699	0.1+	0.5+	2000 04 05	704	0.5+	0.3-
1998 12 25	691	1.0-	0.3+	2000 03 11	699	0.0	0.5+	2000 04 05	704	1.0+	0.4+
1998 12 28	691	0.3+	0.6-	2000 03 12	704	0.2-	0.5+	2000 04 08	704	0.8+	0.4-
1998 12 28	691	0.0	0.7-	2000 03 12	704	0.0	0.2+	2000 04 08	704	0.5+	0.0
1998 12 28	691	0.3+	0.1-	2000 03 12	704	0.4-	0.2+	2000 04 08	704	1.2-	0.6+
2000 02 26	703	0.3-	0.9-	2000 03 12	704	0.3-	0.1-	2000 04 08	704	1.7-	0.4-
2000 02 26	703	0.2-	0.7+	2000 03 12	704	0.2+	0.3+	2000 04 10	704	0.1-	0.1+
2000 02 26	703	1.9+	0.5-	2000 03 14	608	0.1+	0.5-	2000 04 10	704	0.1+	0.4+
2000 02 26	703	(0.4+ 2.3+)		2000 03 14	608	0.2+	0.8-	2000 04 10	704	0.3-	0.2-
2000 03 02	703	0.2-	0.5-	2000 03 14	608	0.1-	1.5-	2000 04 10	704	0.1+	0.1+
2000 03 02	703	1.2-	0.1+	2000 03 28	704	0.3+	0.2+				
2000 03 02	703	0.4-	0.6+	2000 03 28	704	0.0	1.0+				

2000 EY₁₃₀ = 1991 TN₁₃ = 1998 XS₁₃
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	264.05743	(2000.0)	P	Q			
<i>n</i>	0.29834432	ω	166.63360	+0.18826061	+0.98160068		
<i>a</i>	2.2181498	Ω	114.21016	-0.90426312	+0.18592205		
<i>e</i>	0.1459019	<i>i</i>	2.00483	-0.38323120	+0.04350973		
<i>P</i>	3.30	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 10 02	691	0.6+	0.1-	1998 12 15	910	0.6+	0.9+	2000 03 12	704	0.8+	0.2+
1991 10 02	691	0.0	0.4+	1998 12 16	910	1.3+	0.5+	2000 03 12	704	0.0	0.4-
1991 10 02	691	0.1-	0.3+	1998 12 16	910	1.6+	0.3+	2000 03 12	704	0.2-	0.2-
1991 10 04	033	0.9-	0.5+	1998 12 16	910	1.0+	0.3+	2000 03 14	608	0.3+	0.3-
1991 10 04	033	0.5-	0.7+	1998 12 20	691	0.3-	0.7-	2000 03 14	608	0.2+	0.6-
1991 10 05	033	0.1+	0.2+	1998 12 20	691	0.5-	0.2-	2000 03 14	608	0.0	0.5-
1997 05 07	704	0.3+	0.2-	1998 12 20	691	0.4-	0.3-	2000 03 28	704	0.2+	0.4+
1997 05 07	704	0.1+	0.2+	1998 12 21	910	1.1+	0.3-	2000 03 28	704	0.1-	1.5+
1997 05 07	704	0.0	0.2+	1998 12 21	910	0.8+	0.2+	2000 03 28	704	(0.9+ 2.4+)	
1997 05 07	704	0.0	0.2+	1998 12 21	910	0.7+	0.3-	2000 04 02	699	0.1-	0.3+
1997 05 07	704	0.2-	0.5+	2000 03 02	703	0.4-	0.6+	2000 04 02	699	0.4-	0.3-
1998 11 21	704	1.3-	0.9-	2000 03 02	703	0.3-	0.0	2000 04 02	699	0.2-	0.6-
1998 11 21	704	0.1+	1.0+	2000 03 02	703	0.5+	1.4-	2000 04 02	699	0.3+	0.2+
1998 11 21	704	1.6-	0.9-	2000 03 02	703	0.1-	0.2+	2000 04 05	704	0.2+	0.2+
1998 11 21	704	(5.5- 2.5+)		2000 03 11	699	0.9+	0.1+	2000 04 05	704	1.1-	0.6-
1998 12 08	691	1.1-	0.3+	2000 03 11	699	0.1+	0.3+	2000 04 05	704	0.3+	0.2+
1998 12 08	691	1.3-	0.4-	2000 03 11	699	0.3-	0.7+	2000 04 05	704	0.1+	0.3+
1998 12 08	691	1.2-	0.0	2000 03 11	699	0.2+	0.6+	2000 04 10	704	0.2-	0.1-
1998 12 15	910	0.4+	0.7+	2000 03 12	704	0.0	0.4+	2000 04 10	704	0.3+	0.8+
1998 12 15	910	0.4+	0.6+	2000 03 12	704	0.3-	0.2-	2000 04 10	704	(1.4+ 2.2+)	

2000 EE₁₃₁ = 1977 DF₄ = 1996 RE₂₀
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	283.12533	(2000.0)	P	Q			
<i>n</i>	0.17306155	ω	177.21156	-0.10968583	+0.99306667		
<i>a</i>	3.1891062	Ω	86.48872	-0.91276400	-0.08379468		
<i>e</i>	0.1622332	<i>i</i>	2.42775	-0.39348557	-0.08244414		
<i>P</i>	5.70	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1977 02 18	381	0.3+	1.2+	1998 12 17	704	(3.3+ 1.1-)	2000 03 12	704	0.2+	0.0	
1977 02 18	381	1.5-	1.3-	2000 02 16	703	1.2+	0.0	2000 03 12	704	1.2+	0.1-
1977 02 19	381	0.1+	0.2+	2000 02 16	703	0.4+	0.6-	2000 03 12	704	0.0	0.5+
1977 02 19	381	1.3+	0.2+	2000 02 16	703	0.2+	0.6+	2000 03 12	704	0.5+	0.2+
1996 09 11	691	0.4-	0.6+	2000 02 16	703	0.1-	0.4-	2000 04 03	704	0.3+	0.1+
1996 09 11	691	0.3-	0.8+	2000 02 26	703	1.2-	0.0	2000 04 03	704	0.8+	0.0
1996 09 17	691	0.2-	1.1+	2000 02 26	703	1.0-	1.4+	2000 04 03	704	0.7+	0.1+
1996 09 17	691	0.3-	0.6+	2000 02 26	703	0.9-	0.8+	2000 04 03	704	0.1+	0.3+
1996 09 17	566	0.1-	0.0	2000 02 26	703	0.7-	0.2+	2000 04 03	704	1.5-	0.7+
1996 09 17	566	0.4+	0.2+	2000 03 11	699	0.1-	0.2+	2000 04 08	704	0.4+	0.5-
1996 09 17	566	0.5-	0.2+	2000 03 11	699	0.2+	0.2+	2000 04 08	704	0.3+	0.5-
1998 12 17	704	0.7+	1.2+	2000 03 11	699	0.1+	0.1-	2000 04 08	704	0.8+	0.3-
1998 12 17	704	0.1+	1.5-	2000 03 11	699	0.2+	0.1-	2000 04 08	704	0.0	0.3-
1998 12 17	704	0.6-	0.5+	2000 03 12	704	0.2-	0.0	2000 04 08	704	0.5-	0.9+

2000 ET₁₃₁ = 1995 HV₁
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	73.65085	(2000.0)	P	Q			
<i>n</i>	0.17186693	ω	287.12430	-0.06720723	-0.99629973		
<i>a</i>	3.2038671	Ω	166.39023	+0.97992390	-0.07601335		
<i>e</i>	0.0513716	<i>i</i>	13.15996	+0.18770280	+0.04010998		
<i>P</i>	5.73	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 04 24	691	0.3+	0.1+	2000 03 12	704	1.0+	0.1-	2000 03 28	704	0.8-	0.8-
1995 04 24	691	0.3+	0.5+	2000 03 12	704	0.2-	0.5+	2000 04 02	699	0.3+	1.1+
1995 04 24	691	0.4+	0.3-	2000 03 12	704	0.2+	0.1+	2000 04 02	699	0.3-	0.4-
1995 04 29	691	0.4-	0.5-	2000 03 12	704	0.6+	0.1+	2000 04 02	699	0.7+	0.2+
1995 04 29	691	0.3-	0.5-	2000 03 12	704	0.2-	0.4-	2000 04 02	699	0.9-	0.5+
1995 04 29	691	0.2+	1.3-	2000 03 26	699	0.4-	0.1+	2000 04 08	704	0.8+	0.7+
1995 04 29	691	0.5-	1.9+	2000 03 26	699	0.7-	0.2-	2000 04 08	704	0.6-	0.5+
2000 03 11	699	0.3-	0.3+	2000 03 26	699	0.1+	0.8-	2000 04 08	704	0.2+	0.5-
2000 03 11	699	0.8+	1.2+	2000 03 26	699	1.3-	0.7-	2000 04 08	704	0.2+	0.2-
2000 03 11	699	0.0	1.0-	2000 03 28	704	0.2+	0.1-				
2000 03 11	699	0.3-	0.3+	2000 03 28	704	1.0+	0.5-				

2000 EX₁₃₁ = 1998 XM₃₄
 Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	81.91007	(2000.0)	P	Q			
<i>n</i>	0.18436232	ω	69.90444	+0.18181889	-0.98281082		
<i>a</i>	3.0574165	Ω	9.78624	+0.81712016	+0.13289539		
<i>e</i>	0.1019220	<i>i</i>	10.85572	+0.54704344	+0.12814718		
<i>P</i>	5.35	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1992 10 03	691	0.6-	0.4+	2000 02 11	704	0.0	0.9+	2000 04 05	704	0.1+	0.1-
1992 10 03	691	0.5-	0.6+	2000 02 11	704	0.1-	0.1+	2000 04 07	704	0.6-	0.1+
1992 10 03	691	0.2+	0.4+	2000 02 11	704	0.9+	0.9+	2000 04 07	704	0.1+	0.3+
1998 11 16	704	0.5-	0.4-	2000 02 11	704	0.5-	0.8+	2000 04 07	704	0.2+	0.5+
1998 11 16	704	0.7-	1.3-	2000 02 11	704	0.2+	0.7-	2000 04 07	704	0.1+	0.2+
1998 11 16	704	0.0	0.9-	2000 03 02	703	0.2-	0.2+	2000 04 07	704	0.1+	0.0
1998 11 16	704	0.3-	0.4-	2000 03 02	703	0.1+	0.1+	2000 04 08	704	0.2-	0.2+
1998 11 16	704	1.3+	0.8+	2000 03 02	703	0.2+	0.1-	2000 04 08	704	0.1+	0.8+
1998 12 14	704	0.4-	0.5+	2000 03 02	703	0.1+	0.4+	2000 04 08	704	0.2-	0.3+
1998 12 14	704	0.8+	0.6+	2000 03 06	608	(0.2- 2.7-)		2000 04 08	704	0.1-	0.9+
1998 12 14	704	0.4-	0.9+	2000 03 06	608	0.0	0.1-	2000 04			

2000 01 08	704	0.2+	0.7−	2000 03 12	704	0.6−	0.1+	2000 04 10	704	0.3+	0.1+
2000 01 13	699	0.8−	0.8+	2000 04 05	704	0.3+	0.0	2000 04 10	608	0.8+	1.5−
2000 01 13	699	0.0	0.3+	2000 04 05	704	0.0	0.8−	2000 04 10	704	0.1−	0.2−
2000 01 13	699	0.4+	0.7+	2000 04 05	704	0.1−	0.1−	2000 04 10	608	1.8+	1.8−

2000 EY₁₃₁ = 1993 FU₆₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.80606		(2000.0)	P		Q	
<i>n</i>	0.27720261	ω	311.06940	−0.11279663		−0.99244552	
<i>a</i>	2.3295454	Ω	145.31804	+0.93517063		−0.12244804	
<i>e</i>	0.0679294	<i>i</i>	4.86502	+0.33575708		+0.00764035	
<i>P</i>	3.56	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 03 19	809	0.7+	0.9−	2000 02 27	703	1.3−	0.4+	2000 03 12	704	0.4−	0.6+
1993 03 20	809	0.0	0.3+	2000 02 27	703	0.5+	0.5−	2000 03 12	704	0.3+	1.0+
1993 03 24	809	(3.7+ 6.5−)		2000 02 27	703	0.7+	0.6−	2000 03 28	049	0.2+	0.8−
1993 03 25	691	0.4−	0.2−	2000 03 11	699	0.7−	0.4+	2000 03 28	049	0.9+	0.9−
1993 03 25	691	0.3−	0.6−	2000 03 11	699	0.6−	0.5+	2000 03 28	049	0.7+	0.5−
1993 03 25	691	0.5−	0.1−	2000 03 11	699	0.1+	0.0	2000 04 10	704	0.5+	1.0+
1998 09 26	327	0.2+	0.3+	2000 03 11	699	0.0	0.5−	2000 04 10	704	0.1−	0.5+
1998 09 26	327	0.3+	0.1−	2000 03 12	704	0.5−	0.2−	2000 04 10	704	0.3+	0.9+
1998 09 26	327	0.3−	0.7−	2000 03 12	704	0.1−	0.5−				
2000 02 27	703	(1.1− 3.2+)		2000 03 12	704	0.1−	0.3+				

2000 EH₁₃₂ = 1998 RP₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	83.17666		(2000.0)	P		Q	
<i>n</i>	0.29147885	ω	233.35664	+0.21615432		−0.97616460	
<i>a</i>	2.2528452	Ω	204.18195	+0.91029479		+0.20870759	
<i>e</i>	0.1005080	<i>i</i>	2.72756	+0.35304491		+0.05953002	
<i>P</i>	3.38	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 14	704	(2.1+ 1.6−)		2000 03 11	704	0.1+	0.4−	2000 04 05	704	1.0+	0.7+
1998 09 14	704	0.2+	1.0−	2000 03 11	704	0.4−	0.1−	2000 04 05	704	0.5+	0.5+
1998 09 14	704	1.6+	0.4−	2000 03 14	703	0.8+	0.7+	2000 04 05	704	0.2−	0.3+
1998 09 14	704	0.9−	0.4+	2000 03 14	703	0.2−	1.0−	2000 04 06	704	0.2−	0.2+
1998 09 14	704	0.4−	1.1+	2000 03 14	703	0.3−	0.9+	2000 04 06	704	0.0	0.2−
1998 09 18	704	0.1+	0.1+	2000 03 14	703	0.0	0.6+	2000 04 06	704	0.3−	0.3+
1998 09 18	704	(2.2− 1.6+)		2000 04 03	691	0.3−	0.2−	2000 04 06	704	0.8+	0.1+
1998 09 18	704	0.0	1.4−	2000 04 03	691	0.4−	0.4−	2000 04 07	691	0.4−	0.3−
1998 09 18	704	(2.3− 0.2+)		2000 04 03	691	0.5−	0.5−	2000 04 07	691	0.2−	0.4−
1998 09 18	704	0.6−	1.2+	2000 04 05	704	0.1+	0.2−	2000 04 07	691	0.3−	0.3−
2000 03 11	704	0.2+	0.4−	2000 04 05	704	0.5+	0.1+				

2000 EN₁₃₂ = 1993 FS₇₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	315.75538		(2000.0)	P		Q	
<i>n</i>	0.27817628	ω	235.92797	−0.65388284		+0.75649962	
<i>a</i>	2.3241063	Ω	353.19838	−0.65626777		−0.57503777	
<i>e</i>	0.1557636	<i>i</i>	5.84675	−0.37649681		−0.31151224	
<i>P</i>	3.54	<i>H</i>	16.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 21	809	0.7−	0.3−	2000 03 14	703	0.1+	0.3−	2000 04 05	704	0.0	0.9−
1993 03 22	809	0.7+	0.3+	2000 03 14	703	0.5−	1.6+	2000 04 05	704	0.1+	0.3+
2000 03 11	704	0.4+	0.1−	2000 03 14	703	1.3−	1.1−	2000 04 06	704	0.6+	0.8+
2000 03 11	704	1.0+	0.8+	2000 04 03	691	0.4−	0.3−	2000 04 06	704	0.1+	0.8−
2000 03 11	704	0.5+	0.6−	2000 04 03	691	0.5−	0.2−	2000 04 06	704	0.2+	0.5+
2000 03 11	704	0.6+	0.6−	2000 04 03	691	0.3−	0.2−	2000 04 10	691	0.5−	1.3+
2000 03 11	704	0.0	0.1+	2000 04 05	704	1.5+	0.1−	2000 04 10	691	0.3−	0.4−
2000 03 14	703	0.9−	0.5+	2000 04 05	704	(2.1+ 1.0+)		2000 04 10	691	0.4−	0.4−

2000 EX₁₃₂ = 1982 SW₁₂ = 1986 TS₁₇ = 1998 XQ₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.57611		(2000.0)	P		Q	
<i>n</i>	0.25374855	ω	343.92110	+0.98120011		+0.19264307	
<i>a</i>	2.4709673	Ω	5.01534	−0.15917586		+0.84184311	
<i>e</i>	0.1676701	<i>i</i>	7.63727	−0.10913015		+0.50417143	
<i>P</i>	3.88	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1982 09 27	095	0.4−	0.7+	2000 03 11	699	0.1−	0.2−	2000 04 02	699	0.0	0.2−
1986 10 11	095	0.3+	0.6−	2000 03 11	704	0.4−	0.5−	2000 04 03	691	0.1−	0.6−
1998 12 14	704	1.2+	0.0	2000 03 11	704	0.2+	0.9−	2000 04 03	691	0.1−	0.5−
1998 12 14	704	0.2−	0.4+	2000 03 11	704	0.1−	1.2−	2000 04 03	691	0.1−	0.6−
1998 12 14	704	0.3+	0.6+	2000 03 14	703	0.6+	0.6+	2000 04 05	704	0.4−	0.2−
1998 12 14	704	0.1+	0.5+	2000 03 14	703	0.1+	0.2+	2000 04 05	704	0.2−	0.9+
1998 12 17	704	0.5+	0.3−	2000 03 14	703	0.6+	0.7+	2000 04 05	704	0.0	0.4+
1998 12 17	704	0.0	0.8+	2000 03 14	703	0.6+	0.1+	2000 04 05	704	0.6−	0.5+
1998 12 17	704	0.6−	0.7−	2000 03 25	691	0.1−	0.6−	2000 04 05	704	0.1+	0.8+
1998 12 17	704	1.3−	1.0−	2000 03 25	691	0.2+	0.6−	2000 04 06	704	0.0	0.1−
2000 03 11	699	0.2−	0.4+	2000 03 25	691	0.2−	0.5−	2000 04 06	704	0.1+	0.3+
2000 03 11	699	0.1+	0.2+	2000 04 02	699	0.3−	1.2+	2000 04 06	704	0.6−	0.1+
2000 03 11	699	0.1−	0.2−	2000 04 02	699	0.4+	0.6+	2000 04 06	704	0.4−	0.7+
2000 03 11	704	0.2+	0.1−	2000 04 02	699	0.8+	0.4−				

2000 EK₁₃₃ = 1995 WB₃₂ = 1998 TP₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.92022		(2000.0)	P		Q	
<i>n</i>	0.26170924	ω	230.57642	−0.16413350		−0.98631634	
<i>a</i>	2.4206018	Ω	228.87763	+0.91124437		−0.14558592	
<i>e</i>	0.1581606	<i>i</i>	1.17903	+0.37774844		−0.07736155	
<i>P</i>	3.77	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 11 19	691	0.3+	0.1−	2000 03 11	704	0.1−	0.8−	2000 04 05	704	0.1−	0.3−
1995 11 19	691	0.1+	0.0	2000 03 11	704	0.8−	1.0−	2000 04 05	704	0.3−	0.2−
1995 11 19	691	0.2+	0.2+	2000 03 14	703	0.8−	0.1−	2000 04 05	704	0.2+	0.3+
1995 11 30	691	0.2−	0.1−	2000 03 14	703	0.0	0.9+	2000 04 05	704	0.1−	0.1+
1995 11 30	691	0.0	0.0	2000 03 14	703	1.1−	0.1+	2000 04 06	704	0.2−	0.1−
1995 11 30	691	0.2−	0.3+	2000 03 14	703	0.5+	1.9−	2000 04 06	704	0.4+	1.1+
1998 10 13	691	0.3−	1.0+	2000 03 26	699	0.2+	0.2+	2000 04 06	704	0.1+	0.2+
1998 10 13	691	0.3−	0.7+	2000 03 26	699	0.0	0.4+	2000 04 07	704	0.2−	0.2−
1998 10 13	691	0.2−	0.5+	2000 03 26	699	0.5+	1.0+	2000 04 07	704	0.7+	0.9+
1998 10 16	691	0.3−	0.2+	2000 03 26	699	0.6−	0.0	2000 04 07	704	0.1−	0.7+
1998 10 16	691	0.1+	0.1+	2000 04 04	704	1.2+	0.0	2000 04 07	704	0.9+	0.6+
1998 10 16	691	0.1+	0.2+	2000 04 04	704	0.3+	0.3+	2000 04 07	704	0.1+	0.1+
2000 03 11	704	0.4−	0.0	2000 04 04	704	0.8+	0.3−	2000 04 10	691	0.2−	0.0
2000 03 11	704	0.6−	0.1+	2000 04 04	704	0.9+	0.5+	2000 04 10	691	0.3−	0.0
2000 03 11	704	0.4−	0.1+	2000 04 04	704	0.9+	0.4−	2000 04 10	691	0.3−	0.0

2000 EL₁₃₃ = 1997 TZ₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	359.38642		(2000.0)	P		Q	
<i>n</i>	0.19596240	ω	179.52313	−0.99850536		−0.05463306	
<i>a</i>	2.9355369	Ω	357.34366	+0.05003557		−0.90267690	
<i>e</i>	0.0227119	<i>i</i>	1.86542	+0.02198837		−0.42683678	
<i>P</i>	5.03	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 09 30	691	0.2−	0.5+	1997 10 20	824	0.1+	1.8−	2000 03 14	703	0.3+	1.3+
1992 09 30	691	0.1−	0.2+	2000 03 03	104	1.2+	0.8−	2000 03 14	703	0.0	0.0
1992 09 30	691	0.3−	0.5+	2000 03 03	104	0.5+	0.6−	2000 03 14	703	1.0−	0.2+
1997 10 07	824	0.4−	0.2+	2000 03 10	704	0.1−	0.5+	2000 04 05	704	0.0	0.1−
1997 10 07	824	0.2+	1.0+	2000 03 10	704	0.5+	0.3+	2000 04 05	704	0.9−	0.7+
1997 10 07	824	0.7+	0.9+	2000 03 10	704	(3.0+ 1.5−)		2000 04 05	704	1.0−	1.2−
1997 10 08	824	0.5−	0.4−	2000 03 11	704	1.0−	0.3+	2000 04 05	704	0.2+	1.2+

2000 APR. 18

M.P.C. 40199

1997 10 08	824	(2.3+ 0.6+)	2000 03 11	704	0.6+ 0.1-	2000 04 05	704	0.2+ 0.1+
1997 10 08	824	1.2- 0.6+	2000 03 11	704	0.0 1.6-	2000 04 10	691	0.5- 0.0
1997 10 20	824	0.1+ 0.3+	2000 03 11	704	1.3+ 0.3-	2000 04 10	691	0.3- 0.5+
1997 10 20	824	0.9+ 0.6-	2000 03 14	703	1.2+ 0.5+	2000 04 10	691	0.3- 0.7+

2000 EM₁₃₃ = 1977 RK₁₁ = 1998 XY₇₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	87.22671		(2000.0)	P		Q		
<i>n</i>	0.19477589	ω	295.67866	+0.21934398		-0.97520605		
<i>a</i>	2.9474464	Ω	141.61411	+0.91122964		+0.19401943		
<i>e</i>	0.0820478	<i>i</i>	2.70908	+0.34863845		+0.10644069		
<i>P</i>	5.06	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1977 09 09	675	0.3- 1.1-	1998 12 22	704	0.4+ 1.7-	2000 03 14	703	0.1- 0.1+
1977 09 10	675	0.6+ 0.2+	1998 12 22	704	0.9+ 2.0-	2000 03 14	703	0.4- 0.6-
1998 12 15	704	0.0 1.3+	1998 12 22	704	0.3- 0.5-	2000 03 14	703	0.0 0.1-
1998 12 15	704	0.5- 0.3+	2000 02 27	703	0.2+ 0.1-	2000 03 26	699	0.1- 0.2+
1998 12 15	704	0.5- 0.9+	2000 02 27	703	1.1- 0.2+	2000 03 26	699	0.0 0.8-
1998 12 15	704	0.5+ 0.4-	2000 02 27	703	0.7- 0.8+	2000 03 26	699	0.1- 0.1-
1998 12 16	704	0.2- 0.9+	2000 02 27	703	0.7+ 0.5-	2000 03 26	699	0.1- 0.8-
1998 12 16	704	0.5+ 1.3-	2000 03 11	704	0.1+ 0.3-	2000 04 05	704	0.2- 0.5-
1998 12 16	704	1.5- 0.8+	2000 03 11	704	0.4+ 0.4-	2000 04 05	704	0.2- 0.1-
1998 12 16	704	0.3+ 1.2+	2000 03 11	704	0.5+ 0.2+	2000 04 05	704	0.1- 0.8+
1998 12 16	704	1.0+ 0.4-	2000 03 11	704	0.1+ 0.3-	2000 04 05	704	0.5- 0.4+
1998 12 22	704	0.5- 0.8+	2000 03 11	704	0.7+ 0.3+	2000 04 05	704	0.1+ 1.0+
1998 12 22	704	0.1- 0.1+	2000 03 14	703	0.5+ 0.1+			

2000 EN₁₃₃ = 1980 VQ₃ = 1984 SS₄ = 1997 RE₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	221.58848		(2000.0)	P		Q		
<i>n</i>	0.22968473	ω	308.90651	+0.87023421		+0.49164667		
<i>a</i>	2.6406730	Ω	21.69925	-0.42178845		+0.77634480		
<i>e</i>	0.2837529	<i>i</i>	4.84697	-0.25453277		+0.39442655		
<i>P</i>	4.29	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1980 11 01	675	0.6- 0.4+	2000 03 14	703	0.2+ 0.7-	2000 04 05	704	0.1- 0.2-
1980 11 02	675	0.4+ 0.0	2000 03 14	703	0.2+ 0.1-	2000 04 05	704	0.2- 0.7-
1984 09 19	071	(2.2- 3.2+)	2000 03 14	703	0.2- 0.1+	2000 04 05	704	0.7+ 0.2+
1984 09 19	071	0.2- 0.4+	2000 03 14	703	0.3+ 0.2-	2000 04 05	704	0.0 0.0
1997 09 04	372	0.6- 0.1+	2000 03 26	699	0.2- 0.3+	2000 04 06	704	0.2- 0.0
1997 09 09	372	0.4+ 0.9+	2000 03 26	699	0.4+ 0.4+	2000 04 06	691	0.3- 0.3+
1997 09 10	372	0.7- 0.5+	2000 03 26	699	0.0 0.4-	2000 04 06	704	0.0 0.2-
2000 03 11	699	0.7+ 0.6+	2000 03 26	699	0.3+ 0.4+	2000 04 06	691	0.2- 0.3+
2000 03 11	699	0.0 0.1+	2000 03 28	704	0.6- 1.5+	2000 04 06	704	0.3+ 0.2-
2000 03 11	699	0.7+ 0.3+	2000 03 28	704	0.1+ 0.1+	2000 04 06	704	0.4+ 0.2+
2000 03 11	704	0.1- 0.4-	2000 03 28	704	0.2- 1.2+	2000 04 06	691	0.2- 0.5+
2000 03 11	699	0.2- 0.3+	2000 04 05	704	0.3+ 0.5+	2000 04 06	704	0.3- 0.2+
2000 03 11	704	0.7- 0.3-	2000 04 05	704	0.6+ 0.2-	2000 04 10	704	0.5+ 0.3-
2000 03 11	704	0.2+ 0.4-	2000 04 05	704	0.2+ 0.3+	2000 04 10	704	0.3+ 0.1-
2000 03 11	704	1.1- 0.7-	2000 04 05	704	0.2+ 0.6+	2000 04 10	704	0.3+ 0.4-
2000 03 11	704	0.9- 0.1-	2000 04 05	704	0.3+ 0.5+			

2000 ES₁₃₃ = 1995 HV₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	311.19043		(2000.0)	P		Q		
<i>n</i>	0.18439671	ω	176.95501	-0.58400839		+0.79567742		
<i>a</i>	3.0570363	Ω	57.25389	-0.74874340		-0.45153570		
<i>e</i>	0.0603928	<i>i</i>	11.01648	-0.31355624		-0.40374863		
<i>P</i>	5.35	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1995 04 26	691	0.1+ 0.2+	2000 03 11	699	0.8- 0.7+	2000 03 29	704	0.9- 1.1-
1995 04 26	691	0.0 0.2-	2000 03 11	699	0.6- 0.8+	2000 03 29	704	0.2+ 0.8+

1995 05 09	691	0.3+ 0.0	2000 03 12	704	0.1- 0.9-	2000 03 29	704	0.2+ 0.1-
1995 05 09	691	0.2+ 0.0	2000 03 12	704	1.2+ 0.5-	2000 04 03	704	1.8+ 0.2+
1995 05 09	691	0.5- 0.0	2000 03 12	704	1.0+ 1.2-	2000 04 03	704	0.3+ 0.1-
2000 03 11	699	0.7- 0.5+	2000 03 12	704	0.1+ 0.2+	2000 04 03	704	0.1- 0.5+
2000 03 11	699	0.5+ 0.3+	2000 03 29	704	0.8- 0.2+	2000 04 03	704	1.3- 0.2-

2000 EV₁₃₃ = 1996 NE₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	222.42695		(2000.0)	P		Q		
<i>n</i>	0.18690057	ω	204.66445	+0.84552124		+0.51009071		
<i>a</i>	3.0296721	Ω	123.74650	-0.45296147		+0.84172112		
<i>e</i>	0.1095526	<i>i</i>	10.93986	-0.28270081		+0.17695490		
<i>P</i>	5.27	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1996 07 15	566	0.2- 0.3+	1999 01 14	691	0.1- 0.7+	2000 03 29	704	0.7- 0.8-
1996 07 15	566	0.4- 1.0+	2000 03 11	699	0.2- 0.2-	2000 03 29	704	0.4- 0.1+
1996 07 15	566	0.1- 1.5+	2000 03 11	699	0.6- 0.2-	2000 04 03	704	0.1+ 0.5+
1996 07 21	566	0.1+ 0.5-	2000 03 11	699	0.2- 0.2-	2000 04 03	704	0.9+ 0.3+
1996 07 21	566	0.0 0.1-	2000 03 11	699	0.4- 0.3+	2000 04 03	704	0.1+ 0.9+
1996 07 21	566	0.5+ 0.1-	2000 03 12	703	1.0- 0.2-	2000 04 03	704	0.4+ 0.3+
1998 12 22	691	0.2+ 0.1+	2000 03 12	703	0.5- 0.5+	2000 04 03	704	0.6+ 0.5+
1998 12 22	691	0.1+ 0.2+	2000 03 12	703	0.5- 0.0	2000 04 08	704	0.1+ 1.0-
1998 12 22	691	0.3+ 0.4+	2000 03 12	703	0.5- 0.0	2000 04 08	704	0.6+ 0.4-
1999 01 14	691	0.2- 0.5+	2000 03 29	704	0.2+ 0.1+	2000 04 08	704	1.2+ 0.7-
1999 01 14	691	0.1- 0.6+	2000 03 29	704	0.1+ 0.5-	2000 04 08	704	0.6+ 0.6+

2000 EY₁₃₃ = 1999 BN₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	135.23725		(2000.0)	P		Q		
<i>n</i>	0.18964524	ω	20.83543	+0.83863137		-0.54339158		
<i>a</i>	3.0003696	Ω	12.29449	+0.47133228		+0.68921824		
<i>e</i>	0.1070217	<i>i</i>	10.20410	+0.27302619		+0.47927426		
<i>P</i>	5.20	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1992 10 01	691	0.6- 1.1+	2000 02 27	703	0.2+ 0.2-	2000 04 05	704	0.7+ 0.6+
1992 10 01	691	(3.5- 0.9+)	2000 02 27	703	0.9- 0.6-	2000 04 05	704	0.5+ 0.4-
1992 10 01	691	0.9- 1.2+	2000 02 27	703	0.2- 0.7+	2000 04 05	704	0.1+ 0.4-
1998 12 17	704	1.3+ 1.0-	2000 03 11	704	1.5- 0.3-	2000 04 05	704	0.3+ 0.1-
1998 12 17	704	0.3+ 0.6-	2000 03 11	704	0.2+ 0.8-	2000 04 06	704	0.3+ 0.3+
1998 12 17	704	0.6- 0.1-	2000 03 11	704	0.1- 0.7-	2000 04 06	704	0.4- 0.3+
1998 12 17	704	0.2- 0.3-	2000 03 11	704	0.1+ 1.1-	2000 04 06	704	0.2+ 0.1+
1998 12 17	704	(1.7+ 2.2-)	2000 03 14	703	1.6+ 0.3+	2000 04 07	699	0.3- 0.4-
1999 01 16	704	0.6+ 0.0	2000 03 14	703	0.7+ 0.9+	2000 04 07	699	0.7- 0.4+
1999 01 16	704	0.4- 0.8+	2000 03 14	703	0.2- 0.2-	2000 04 07	699	0.9- 0.3+
1999 01 16	704	0.1- 0.0	2000 03 14	703	0.9+ 0.0	2000 04 07	699	0.5- 0.2+
1999 01 19	704	0.3+ 0.8+	2000 03 26	699	0.8- 0.2-	2000 04 10	704	0.1- 0.2-
1999 01 19	704	0.4+ 0.8-	2000 03 26	699	0.6- 0.2+	2000 04 10	704	1.0+ 1.1+
1999 01 19	704	1.0- 0.4+	2000 03 26	699	0.5- 0.2+	2000 04 10	704	0.4+ 1.0+
1999 01 19	704	0.8- 0.6+	2000 03 26	699	0.4- 0.2-	2000 04 10	704	1.5+ 0.7+
2000 02 27	703	0.1- 0.4+	2000 04 05	704	0.9+ 0.3+			

2000 EE₁₃₄ = 1998 TW₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams								
<i>M</i>	20.24613		(2000.0)	P		Q		
<i>n</i>	0.22364157	ω	117.42866	-0.83282750		-0.54076372		
<i>a</i>	2.6880315	Ω	30.27557	+0.38781739		-0.72241284		
<i>e</i>	0.2012377	<i>i</i>	13.56004	+0.39496333		-0.43092261		
<i>P</i>	4.41	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 10 15	691	0.9- 0.5-	2000 03 11	699	0.1- 1.2-	2000 03 29	704	0.2- 0.4+
1998 10 15	691	1.2- 0.5-	2000 03 11	699	1.2- 0.3+	2000 03 29	704	0.5- 0.3+

M.P.C. 40200

2000 APR. 18

1998 10 21	910	0.6+	0.2+	2000 03 12	703	0.4+	0.3-	2000 04 08	704	0.4-	0.4-
1998 10 21	910	0.8+	0.1+	2000 03 12	703	0.4+	0.6+	2000 04 08	704	0.4+	0.7-
1998 10 21	910	1.6+	0.7+	2000 03 12	703	0.2+	0.7+	2000 04 08	704	0.4-	0.5+
2000 03 11	699	0.4-	0.5-	2000 03 29	704	0.1+	0.6-	2000 04 08	704	0.0	0.2+
2000 03 11	699	0.3+	0.0	2000 03 29	704	0.1+	0.3-				

2000 EF₁₃₄ = 1998 XK₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
293.33941				(2000.0)			
<i>n</i>	0.21425344	ω	201.15966	-0.01863419		+0.98903191	
<i>a</i>	2.7659916	Ω	68.01358	-0.89314046		+0.04940244	
<i>e</i>	0.1814011	<i>i</i>	9.09163	-0.44939168		-0.13919511	
<i>P</i>	4.60	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	1.5-	1.3+	2000 03 08	608	0.1+	0.7-	2000 03 29	704	0.3-	0.1-
1998 12 14	704	1.0+	0.1+	2000 03 08	608	0.1+	1.0-	2000 03 29	704	0.1-	0.4+
1998 12 14	704	0.6-	0.9-	2000 03 08	608	0.2-	0.6-	2000 03 29	704	0.4+	0.8+
1998 12 14	704	0.2-	1.4-	2000 03 11	699	0.3-	0.1+	2000 03 29	704	0.4+	0.8+
1998 12 17	704	(2.0-	2.5+)	2000 03 11	699	0.2+	0.0	2000 03 29	704	0.2-	1.4+
1998 12 17	704	0.2+	1.0+	2000 03 11	699	0.2-	0.1-	2000 04 05	704	0.0	0.1+
1998 12 17	704	(1.1-	2.8+)	2000 03 11	699	0.0	0.2+	2000 04 05	704	0.5+	0.1-
1998 12 17	704	1.0+	0.6+	2000 03 12	703	0.2-	0.1+	2000 04 05	704	0.8+	0.2+
2000 01 10	704	0.8-	0.0	2000 03 12	703	0.5-	0.1-	2000 04 05	704	0.5+	0.1-
2000 01 10	704	0.3+	1.3-	2000 03 12	703	0.5-	0.3-	2000 04 05	704	0.4+	0.1-
2000 01 10	704	0.2-	0.9-	2000 03 12	703	0.4-	0.4+				

2000 EJ₁₃₄ = 1986 YM₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
204.73255				(2000.0)			
<i>n</i>	0.16851607	ω	282.49131	+0.93330510		+0.33388718	
<i>a</i>	3.2461992	Ω	58.13972	-0.23810452		+0.85089386	
<i>e</i>	0.0195498	<i>i</i>	8.95042	-0.26878954		+0.40558474	
<i>P</i>	5.85	<i>H</i>	12.4	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1986 12 30	675	2.0+	0.2-	1997 11 06	704	(6.5-	1.7+)	2000 03 12	703	0.0	0.0
1986 12 30	675	0.9+	0.2+	1997 11 06	704	(6.7-	1.4+)	2000 03 12	703	0.7-	0.2-
1987 01 01	675	1.9-	1.1+	1997 11 06	704	(6.2-	1.5+)	2000 03 12	703	0.3+	0.1+
1987 01 01	675	1.1-	0.5+	1997 11 06	704	(6.3-	0.6+)	2000 03 12	703	0.4-	0.0
1997 10 29	704	0.7+	0.8+	1998 12 21	704	0.7+	1.2-	2000 03 29	704	0.2-	0.1-
1997 10 29	704	1.1-	0.0	1998 12 21	704	0.0	0.6-	2000 03 29	704	0.4-	0.3-
1997 10 29	704	0.7-	0.8+	1998 12 21	704	(0.2-	2.6-)	2000 03 29	704	0.1+	0.1+
1997 10 29	704	1.6-	0.5-	1998 12 21	704	0.3-	1.3-	2000 03 29	704	0.3+	0.2+
1997 10 30	704	(4.1+	0.9-)	1998 12 21	704	0.6-	0.3-	2000 03 29	704	0.1+	0.0
1997 10 30	704	(3.7+	1.1-)	1999 02 12	699	0.4-	0.3-	2000 04 05	704	0.2-	0.3-
1997 10 30	704	(3.7+	0.6-)	1999 02 12	699	0.3+	0.8+	2000 04 05	704	0.1+	0.1+
1997 10 30	704	(4.1+	0.8-)	1999 02 12	699	0.3-	0.4-	2000 04 05	704	0.2+	0.2+
1997 10 30	704	(0.9-	2.6-)	2000 03 07	704	1.2+	0.0	2000 04 05	704	0.1+	0.2+
1997 10 31	704	0.2-	0.6-	2000 03 07	704	0.9-	0.2-	2000 04 05	704	0.6+	0.3+
1997 10 31	704	0.1+	0.2-	2000 03 07	704	0.2-	0.5-	2000 04 13	704	0.1-	0.0
1997 10 31	704	0.0	0.4+	2000 03 11	699	0.2-	0.6+	2000 04 13	704	0.0	0.0
1997 10 31	704	1.3+	1.0+	2000 03 11	699	0.1+	0.2+	2000 04 13	704	0.7+	0.4+
1997 10 31	704	0.3+	0.7+	2000 03 11	699	0.1-	0.4+	2000 04 13	704	0.3+	0.1+
1997 11 06	704	(7.1-	1.8+)	2000 03 11	699	0.1-	0.3+	2000 04 13	704	0.7+	1.2+

2000 ER₁₃₄ = 1998 VH₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
102.45709				(2000.0)			
<i>n</i>	0.23862295	ω	316.80345	+0.57161140		-0.81813858	
<i>a</i>	2.5743124	Ω	98.23932	+0.76897262		+0.50755541	
<i>e</i>	0.2241975	<i>i</i>	3.62233	+0.28625429		+0.27025316	
<i>P</i>	4.13	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 04 18	691	0.7+	1.0-	1998 11 11	704	0.2+	1.2-	2000 03 12	704	0.1+	0.0
1996 04 18	691	(2.9+	0.3-)	1998 11 11	704	0.6-	0.8-	2000 03 12	704	0.5-	0.9-
1996 04 18	691	0.6+	1.1-	1998 11 11	704	0.1-	0.9-	2000 03 12	704	0.2-	0.2-
1996 04 24	691	1.1-	1.1-	1998 11 11	704	0.3+	0.5-	2000 03 12	704	1.0-	0.3-
1996 04 24	691	1.2-	1.1-	1998 12 11	699	0.1-	0.5+	2000 03 12	704	1.1-	0.8-
1996 04 24	691	1.2-	0.7-	1998 12 11	699	0.6-	0.4+	2000 03 29	704	0.1-	0.0
1998 08 31	704	(4.9-	0.7-)	1998 12 11	699	0.1-	0.9+	2000 03 29	704	0.3+	0.1+
1998 08 31	704	0.3+	1.8+	1999 02 04	704	0.4+	1.2+	2000 03 29	704	0.3-	0.2-
1998 08 31	704	1.4+	1.8-	1999 02 04	704	0.3+	0.2-	2000 03 29	704	0.4-	0.3+
1998 08 31	704	1.3+	1.9-	1999 02 04	704	0.0	1.6-	2000 04 04	704	1.6+	1.9+
1998 10 12	699	0.0	1.4+	1999 02 04	704	0.1-	1.3+	2000 04 04	704	1.3+	0.3-
1998 10 12	699	0.0	1.3+	2000 03 11	699	0.6-	0.3+	2000 04 04	704	0.9+	0.4-
1998 10 12	699	0.5+	1.1+	2000 03 11	699	0.3+	0.8+	2000 04 10	704	0.6+	0.1+
1998 11 10	704	0.7-	0.7-	2000 03 11	699	0.2+	0.4+	2000 04 10	704	0.0	0.2-
1998 11 10	704	0.2+	1.0-	2000 03 11	699	(0.9-	2.2+)	2000 04 10	704	0.6-	0.2-
1998 11 10	704	1.5+	0.3-	2000 03 12	704	0.0	1.1+	2000 04 10	704	0.5-	0.5+
1998 11 10	704	1.0-	1.0-	2000 03 12	704	0.9+	0.0				
1998 11 11	704	0.9-	0.6-	2000 03 12	704	0.5-	0.4+				

2000 ES₁₃₄ = 1998 UY₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
13.17556				(2000.0)			
<i>n</i>	0.26570769	ω	64.02787	-0.93637689		-0.34677853	
<i>a</i>	2.3962565	Ω	95.64214	+0.29938405		-0.86976700	
<i>e</i>	0.1244485	<i>i</i>	3.12493	+0.18321438		-0.35106982	
<i>P</i>	3.71	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 22	910	0.2-	0.2-	2000 03 12	704	0.0	1.1-	2000 04 04	704	0.5+	0.4+
1998 10 22	910	0.4+	0.4-	2000 03 12	704	0.6+	1.1-	2000 04 04	704	0.3+	0.5+
1998 10 22	910	0.2+	0.2-	2000 03 12	704	0.8-	0.4+	2000 04 04	704	1.0+	0.3+
1998 10 22	910	0.3-	0.2+	2000 03 12	704	0.2-	0.1+	2000 04 08	704	0.1+	0.2+
1998 10 23	910	0.1+	0.4+	2000 04 02	699	0.4-	0.2+	2000 04 08	704	0.2-	0.4+
1998 10 23	910	0.2-	0.1+	2000 04 02	699	0.3-	0.3-	2000 04 08	704	0.5-	0.6+
2000 03 11	699	0.2-	1.1+	2000 04 02	699	0.7-	0.0	2000 04 08	704	0.1+	0.2-
2000 03 11	699	0.4+	0.6-	2000 04 02	699	0.2-	0.5-	2000 04 08	704	0.0	0.4+
2000 03 11	699	0.5+	0.5+	2000 04 04	704	0.3-	1.0-				
2000 03 11	699	0.4-	0.7+	2000 04 04	704	0.5+	0.9-				

2000 EU₁₃₄ = 1979 QZ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>				<i>P</i>		<i>Q</i>	
321.07685				(2000.0)			
<i>n</i>	0.22399029	ω	73.58168	-0.63904005		+0.76751691	
<i>a</i>	2.6852409	Ω	156.46896	-0.74510258		-0.60142686	
<i>e</i>	0.1428208	<i>i</i>	7.26007	-0.19091872		-0.22181869	
<i>P</i>	4.40	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1979 08 22	809	0.0	0.4-	2000 03 11	699	0.0	0.2+	2000 03 29	704	0.5-	0.4-
1979 08 22	809	0.5-	0.4+	2000 03 11	699	0.0	0.1+	2000 03 29	704	0.3-	0.3-
1979 08 22	809	0.4-	0.5-	2000 03 11	699	0.1+	0.4-	2000 03 29	704	0.2+	0.2-
1979 08 23	809	0.3+	0.5+	2000 03 11	699	0.4+	0.5+	2000 03 29	704	0.1+	0.9-
1979 08 23	809	0.6+	0.1+	2000 03 12	704	0.2+	0.2+	2000 04 05	704	0.4-	0.1-
2000 03 01	703	0.0	0.5+	2000 03 12	704	0.7+	0.5-	2000 04 05	704	0.1-	0.3+
2000 03 01	703	0.4-	0.0	2000 03 12	704	0.4+	0.5+	2000 04 05	704	0.1+	0.0
2000 03 01	703	0.2-	0.1-	2000 03 12	704	0.7-	0.2-	2000 04 05	704	0.1+	0.2+
2000 03 01	703	0.1-	0.3-	2000 03 29	704	0.3-	0.6+	2000 04 05	704	0.8+	0.3+

2000 APR. 18

M.P.C. 40201

2000 EA₁₃₅ = 1993 FZ₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	32.92400		(2000.0)	P	Q
<i>n</i>	0.28023043	ω	353.03339	-0.77295186	-0.63113941
<i>a</i>	2.3127349	Ω	147.54323	+0.58778666	-0.75082538
<i>e</i>	0.0466834	<i>i</i>	6.94299	+0.23885617	-0.19474161
<i>P</i>	3.52	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 03 17	809	0.1+	1.0+	2000 03 12	704	0.2+	0.0	2000 04 05	704	0.5+	0.3-
1993 03 18	809	0.1+	1.2-	2000 03 12	704	0.2+	0.6+	2000 04 05	704	0.9+	0.2+
1993 03 23	809	0.2-	0.1+	2000 03 12	704	0.1+	1.0+	2000 04 05	704	0.4+	0.1+
2000 03 11	699	0.0	0.1+	2000 03 26	699	0.7+	0.6+	2000 04 07	699	0.4-	1.0-
2000 03 11	699	0.6-	0.8-	2000 03 26	699	0.2+	0.1+	2000 04 07	699	0.1-	0.3+
2000 03 11	699	0.7-	0.4+	2000 03 26	699	0.4+	0.1-	2000 04 07	699	0.2-	0.7-
2000 03 11	699	0.3+	1.0+	2000 03 26	699	0.5-	0.1-	2000 04 07	699	1.7-	0.5+
2000 03 12	703	0.4+	0.9-	2000 03 29	704	0.2+	0.1-	2000 04 08	704	0.6-	0.0
2000 03 12	703	0.2-	0.9-	2000 03 29	704	0.1-	0.4+	2000 04 08	704	0.4+	0.2+
2000 03 12	703	0.4-	0.6-	2000 03 29	704	0.1-	0.2+	2000 04 08	704	0.7+	0.1+
2000 03 12	703	0.6+	0.4-	2000 03 29	704	0.6-	0.2-				
2000 03 12	704	(0.1-	2.7+)	2000 04 05	704	0.1-	0.5+				

2000 EE₁₃₅ = 1997 JW₁₇ = 1997 LO₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.91757		(2000.0)	P	Q
<i>n</i>	0.30239160	ω	182.67415	+0.24478244	+0.96800528
<i>a</i>	2.1983132	Ω	101.49912	-0.88852171	+0.24674372
<i>e</i>	0.1937351	<i>i</i>	3.22938	-0.38808598	+0.04564334
<i>P</i>	3.26	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 01 21	691	0.1+	0.6+	2000 03 12	704	0.2+	0.8+	2000 04 07	704	0.0	0.4+
1993 01 21	691	0.0	0.2+	2000 03 12	704	1.6+	0.5-	2000 04 07	699	0.0	0.3+
1993 01 21	691	0.0	0.5+	2000 03 12	704	0.1-	0.1+	2000 04 07	704	0.4-	0.4+
1997 05 03	809	1.1+	1.5-	2000 03 12	704	0.1+	0.2-	2000 04 07	704	0.4-	0.3+
1997 05 03	809	1.5+	0.9-	2000 03 12	704	1.2+	0.3+	2000 04 07	704	0.0	0.2+
1997 05 03	809	0.4+	2.0-	2000 03 12	704	1.1+	0.4+	2000 04 08	704	0.2-	0.1+
1997 05 04	809	(0.1-	3.7-)	2000 03 12	704	1.3+	0.1+	2000 04 08	704	0.5-	0.4+
1997 05 04	809	(0.5-	3.7-)	2000 03 12	704	0.6+	0.1+	2000 04 08	704	0.4-	0.9-
1997 05 04	809	(0.4-	4.3-)	2000 03 12	704	1.0+	0.0	2000 04 08	704	0.5-	0.0
1997 06 07	809	0.5-	0.4+	2000 03 26	699	0.4+	0.2-	2000 04 08	704	0.6-	0.0
1997 06 07	809	0.6-	0.6+	2000 03 26	699	0.1+	0.2-	2000 04 08	704	1.0-	0.8-
1997 06 07	809	0.7-	0.4+	2000 03 26	699	0.2+	0.7+	2000 04 08	704	0.7-	0.4+
1997 06 08	809	0.6+	1.1+	2000 03 26	699	0.1+	1.0+	2000 04 08	704	0.2-	0.4+
1997 06 08	809	0.4-	1.4+	2000 03 29	704	0.3-	0.6-	2000 04 08	704	0.0	0.1+
1997 06 08	809	0.9-	0.7+	2000 03 29	704	0.5+	0.1-	2000 04 08	704	0.9-	1.6-
1997 06 08	809	(2.9+	1.4+)	2000 03 29	704	0.2-	0.7-	2000 04 10	704	0.2-	0.4+
1997 06 08	809	(2.3+	1.1+)	2000 03 29	704	0.1-	0.4-	2000 04 10	704	0.1+	0.2+
1997 06 08	809	(3.0+	0.4+)	2000 04 05	704	0.9+	0.8+	2000 04 10	704	0.8-	0.1-
2000 03 06	608	0.2+	1.2-	2000 04 05	704	0.2+	0.4+	2000 04 10	704	0.7-	0.4+
2000 03 06	608	0.1-	1.2-	2000 04 05	704	0.4+	0.7-	2000 04 10	704	1.0-	0.7-
2000 03 06	608	0.1+	0.9-	2000 04 05	704	0.5+	0.4+	2000 04 10	704	0.0	0.5+
2000 03 11	699	0.3+	0.3-	2000 04 07	699	0.2-	0.4+	2000 04 10	704	0.3-	0.4+
2000 03 11	699	0.5-	0.3+	2000 04 07	699	0.4+	0.2-	2000 04 10	704	0.0	0.4-
2000 03 11	699	0.5-	0.3-	2000 04 07	699	0.1+	0.2+	2000 04 10	704	0.3+	0.5+
2000 03 11	699	0.1+	0.2+	2000 04 07	704	0.0	0.3-	2000 04 10	704	1.2-	1.1+

2000 EN₁₃₅ = 1998 XJ₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.72685		(2000.0)	P	Q
<i>n</i>	0.26375000	ω	128.29869	-0.65821068	+0.75013619
<i>a</i>	2.4080993	Ω	100.41441	-0.70934689	-0.58963747
<i>e</i>	0.0946259	<i>i</i>	3.71196	-0.25216201	-0.29937159
<i>P</i>	3.74	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1991 12 31	691	0.1-	0.1-	2000 03 11	699	0.8-	0.1+	2000 03 29	704	0.7+	0.4-
1991 12 31	691	0.3+	0.7+	2000 03 11	699	1.1-	0.2-	2000 03 29	704	0.1-	0.1-
1991 12 31	691	0.2-	0.2-	2000 03 12	704	0.2-	0.5+	2000 03 29	704	0.7+	0.6-
1998 12 13	691	0.2+	0.0	2000 03 12	704	1.1+	0.3-	2000 04 05	704	0.5-	0.0
1998 12 13	691	0.2+	0.3+	2000 03 12	704	0.4+	0.2+	2000 04 05	704	0.0	1.1+
1998 12 13	691	0.3+	0.0	2000 03 12	704	0.3+	0.4-	2000 04 05	704	0.2+	0.2+
1998 12 20	691	0.2-	0.2-	2000 03 12	704	1.1+	0.1+	2000 04 07	699	0.1+	0.7-
1998 12 20	691	0.1-	0.4-	2000 03 12	704	0.0	0.1+	2000 04 07	699	0.2+	0.1-
1998 12 20	691	0.3-	0.3-	2000 03 12	704	0.9-	0.6+	2000 04 07	699	0.2-	0.6-
2000 03 11	699	0.6-	0.3-	2000 03 12	704	0.9+	0.8+	2000 04 07	699	1.0-	0.1-
2000 03 11	699	1.0-	0.2-	2000 03 29	704	0.6+	0.2-				

2000 EO₁₃₅ = 1993 VY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	211.30284		(2000.0)	P	Q
<i>n</i>	0.22952682	ω	279.09428	+0.94634289	+0.30760117
<i>a</i>	2.6418841	Ω	63.04356	-0.23521303	+0.86586081
<i>e</i>	0.2564043	<i>i</i>	6.38196	-0.22160770	+0.39454604
<i>P</i>	4.29	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1993 11 11	399	0.7+	0.9+	2000 03 11	699	1.1-	0.3+	2000 03 29	704	0.6+	0.3-
1993 11 11	399	0.1+	0.5-	2000 03 12	703	0.4-	0.4-	2000 04 07	699	0.5+	0.1+
1993 11 16	399	1.1-	0.4+	2000 03 12	703	0.8+	0.9+	2000 04 07	699	0.3+	0.6-
1993 11 16	399	0.1-	0.1+	2000 03 12	703	0.9+	1.1-	2000 04 07	699	0.3-	0.1-
1996 04 16	120	0.1+	1.2+	2000 03 12	703	1.1-	0.1-	2000 04 07	699	0.4+	0.5+
1996 04 16	120	1.1-	0.9+	2000 03 29	704	0.9+	0.4+	2000 04 08	704	0.4+	0.7-
2000 03 11	699	0.1+	0.1-	2000 03 29	704	0.6+	0.4+	2000 04 08	704	0.4-	0.6-
2000 03 11	699	0.8-	0.1-	2000 03 29	704	0.1+	0.1-	2000 04 08	704	0.6-	0.4+
2000 03 11	699	2.0-	0.1+	2000 03 29	704	0.4+	0.1-				

2000 ES₁₃₅ = 1996 GL₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	240.94788		(2000.0)	P	Q
<i>n</i>	0.22688582	ω	282.55388	+0.78496362	+0.60138520
<i>a</i>	2.6623459	Ω	40.74472	-0.44186927	+0.71189493
<i>e</i>	0.2859807	<i>i</i>	13.18618	-0.43426221	+0.36268644
<i>P</i>	4.34	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1996 04 15	809	(1.4-	2.8-)	1997 10 31	704	0.1-	0.9+	2000 03 12	703	0.7-	0.4+
1996 04 15	809	(1.1-	3.5-)	1997 11 06	704	0.3-	1.0+	2000 03 12	703	1.1+	0.3-
1996 04 15	809	(1.3-	4.0-)	1997 11 06	704	0.7-	0.5+	2000 03 12	704	0.1+	1.2+
1996 04 18	691	0.1-	0.4-	1997 11 06	704	0.1+	0.7+	2000 03 12	704	0.4+	0.1-
1996 04 18	691	0.1+	0.0	1997 11 06	704	0.1+	0.4+	2000 03 12	704	0.6+	1.0+
1996 04 18	691	0.2+	0.7+	1997 11 06	704	1.8-	1.5+	2000 03 29	704	0.7+	0.6+
1997 10 29	704	0.7-	0.5-	1999 01 14	704	0.6-	0.6-	2000 03 29	704	1.3+	0.3+
1997 10 29	704	0.7-	0.2-	1999 01 14	704	1.0+	1.0-	2000 03 29	704	0.1+	0.1-
1997 10 29	704	0.5-	0.0	1999 01 14	704	0.4-	1.4-	2000 03 29	704	0.6-	0.7-
1997 10 29	704	1.2-	0.2+	1999 01 14	704	1.1-	0.7-	2000 03 29	704	0.1+	0.9+
1997 10 29	704	0.2-	0.1-	2000 02 14	049	1.3+	0.2-	2000 04 05	704	0.5+	0.3+
1997 10 30	704	(1.8+	2.2-)	2000 02 14	049	1.5+	1.0-	2000 04 05	704	0.3-	0.1-
1997 10 30	704	1.5+	1.8-	2000 02 14	049	1.3+	1.4-	2000 04 05	704	0.2+	0.5-
1997 10 30	704	1.2+	1.5-	2000 03 11	699	0.9-	1.9+	2000 04 05	704	0.5-	0.4-
1997 10 30	704	(2.1+	2.1-)	2000 03 11	699	1.5-	1.3+	2000 04 05	704	0.5-	0.3+
1997 10 30	704	(0.9-	3.2-)	2000 03 11	699	1.3-	1.3+	2000 04 11	608	0.6+	0.0
1997 10 31	704	0.9+	0.8+	2000 03 11	699	(0.7-	2.0+)	2000 04 11	608	0.4+	0.6-
1997 10 31	704	0.3+	1.2+	2000 03 12	703	0.1-	0.6+	2000 04 11	608	0.5+	0.1-
1997 10 31	704	0.2-	0.6+	2000 03 12	703	0.4-	0.3-				

2000 EZ₁₃₅ = 1987 UM = 1998 VH₄₄
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27035712	ω	19.80040	+0.76883190	−0.61962961		
<i>a</i>	2.3687043	Ω	21.04903	+0.51127033	+0.44728183		
<i>e</i>	0.2423357	<i>i</i>	26.09383	+0.38405749	+0.64497916		
<i>P</i>	3.65	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 10 17	675	0.5−	1.9+	1998 12 09	704	1.0−	0.4+	2000 03 29	704	0.3+	0.3+
1987 10 19	675	1.7−	1.4+	1998 12 09	704	0.0	0.3−	2000 03 29	704	0.6+	0.0
1987 10 20	675	1.5−	0.4+	1998 12 09	704	0.5−	0.1+	2000 04 05	704	0.2−	0.3−
1998 10 17	699	0.2+	0.3−	2000 03 11	699	0.5+	1.4+	2000 04 05	704	0.1−	0.1+
1998 10 17	699	0.6+	0.7−	2000 03 11	699	0.6+	0.5+	2000 04 05	704	0.3+	0.2+
1998 10 17	699	0.2−	0.5−	2000 03 11	699	0.0	0.6+	2000 04 05	704	0.3+	0.1+
1998 11 10	699	0.2−	0.5−	2000 03 11	699	0.5+	0.2−	2000 04 05	704	0.5−	0.1−
1998 11 10	699	0.1−	0.4−	2000 03 12	703	0.1+	0.4+	2000 04 08	704	0.3−	0.0
1998 11 10	699	0.3+	0.3−	2000 03 12	703	0.3+	0.4−	2000 04 08	704	0.2−	0.1+
1998 11 14	699	0.2+	0.3+	2000 03 12	703	0.3−	0.6+	2000 04 08	704	0.2+	0.1−
1998 11 14	699	1.0+	0.9+	2000 03 12	703	0.3+	0.1−	2000 04 08	704	0.1+	0.1+
1998 11 14	699	1.0+	0.6+	2000 03 29	704	0.2+	0.7−	2000 04 08	704	0.0	0.6+
1998 12 09	704	0.3+	0.2+	2000 03 29	704	0.1+	0.4−				
1998 12 09	704	0.8−	0.3−	2000 03 29	704	0.4+	0.0				

2000 EL₁₃₆ = 1999 BP₁₇
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22906977	ω	306.77186	+0.71579299	+0.69759721		
<i>a</i>	2.6453970	Ω	9.14530	−0.56045655	+0.60089165		
<i>e</i>	0.1986689	<i>i</i>	11.46774	−0.41656794	+0.39024013		
<i>P</i>	4.30	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 30	566	0.5−	1.0+	1999 01 19	704	(0.5−	2.3+)	2000 03 14	608	0.3−	0.0
1997 09 30	566	0.9−	1.2+	1999 01 19	704	1.8−	0.7+	2000 03 14	608	0.5−	0.1−
1997 09 30	566	0.7−	1.0+	1999 01 19	704	(4.6−	1.6+)	2000 04 08	704	0.4+	1.0+
1998 12 17	704	1.6+	1.5−	2000 02 11	704	1.3+	1.3+	2000 04 08	704	0.9+	0.0
1998 12 17	704	0.0	1.3−	2000 02 11	704	0.4−	1.0+	2000 04 08	704	0.3+	0.1−
1998 12 17	704	(1.6−	3.5−)	2000 02 11	704	0.3−	0.6+	2000 04 08	704	0.4+	0.3+
1998 12 17	704	0.1−	0.3+	2000 02 11	704	0.0	0.2−	2000 04 08	704	0.2+	0.1−
1998 12 17	704	0.9+	0.3−	2000 03 12	704	0.2+	0.2+	2000 04 10	704	0.6−	0.2+
1999 01 16	704	0.0	0.3−	2000 03 12	704	0.3+	0.0	2000 04 10	704	0.5+	0.5+
1999 01 16	704	0.3−	1.2+	2000 03 12	704	0.5+	0.5−	2000 04 10	704	1.1+	0.1+
1999 01 16	704	0.1−	0.8−	2000 03 12	704	0.0	0.3+	2000 04 10	704	0.1−	0.1+
1999 01 16	704	0.8−	0.7+	2000 03 12	704	0.5−	0.2−				
1999 01 19	704	0.4+	0.7+	2000 03 14	608	0.6−	0.5−				

2000 EM₁₃₆ = 1987 RD₃ = 1987 SS₂₂ = 1998 XN₉₀

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28169262	ω	172.99969	+0.83172751	+0.55199347		
<i>a</i>	2.3047248	Ω	153.22741	−0.51555434	+0.80764037		
<i>e</i>	0.2385355	<i>i</i>	7.58209	−0.20599290	+0.20741321		
<i>P</i>	3.50	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1987 09 02	095	0.4+	1.3−	2000 03 02	703	0.4−	0.1−	2000 03 14	608	0.4+	0.4−
1987 09 20	095	(0.5+	5.7−)	2000 03 02	703	0.7+	0.8−	2000 03 14	608	0.1+	0.2−
1998 12 15	704	0.2+	0.8+	2000 03 02	703	1.0−	0.2−	2000 04 08	704	0.7−	0.3+
1998 12 15	704	0.5−	0.1+	2000 03 02	703	1.3−	0.0	2000 04 08	704	0.6−	0.1+
1998 12 15	704	(1.3+	2.6−)	2000 03 12	704	0.4+	0.5−	2000 04 08	704	0.2−	0.1−
1998 12 15	704	0.3+	0.9+	2000 03 12	704	0.1+	0.2−	2000 04 08	704	0.0	0.5+
1998 12 22	704	0.4−	0.5−	2000 03 12	704	0.1+	0.2−	2000 04 08	704	0.1−	0.4+
1998 12 22	704	0.1−	0.8−	2000 03 12	704	0.3−	0.3+	2000 04 10	704	0.1+	0.2+

1998 12 22 704 0.4+ 0.3− 2000 03 12 704 0.4− 0.0 2000 04 10 704 1.2+ 0.4−
1998 12 22 704 0.1+ 0.3− 2000 03 14 608 0.2+ 1.2− 2000 04 10 704 1.0+ 0.7+

2000 EO₁₃₆ = 1993 FY₁ = 1997 LT₁₆
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27869977	ω	355.86494	+0.16219983	−0.97945742		
<i>a</i>	2.3211951	Ω	84.77017	+0.90874856	+0.10095587		
<i>e</i>	0.0778477	<i>i</i>	6.91003	+0.38453514	+0.17455968		
<i>P</i>	3.54	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 23	010	0.3−	1.8−	2000 03 05	704	0.1−	0.7+	2000 03 26	699	0.2−	0.3+
1993 03 23	010	1.2−	1.3−	2000 03 05	704	0.3−	0.1+	2000 04 03	704	0.0	0.2+
1993 03 23	010	(1.1−	3.6−)	2000 03 12	704	0.6+	0.7−	2000 04 03	704	0.8−	0.6+
1993 03 25	010	(4.4+	3.4−)	2000 03 12	704	0.2−	0.0	2000 04 03	704	0.2−	0.4+
1997 06 08	809	0.9+	0.9−	2000 03 12	704	0.0	0.2−	2000 04 03	704	0.4+	1.2+
1997 06 08	809	1.5−	0.1−	2000 03 12	704	0.5−	0.4−	2000 04 03	704	0.5+	0.7+
1997 06 08	809	1.5−	0.0	2000 03 12	704	0.1+	0.8−	2000 04 08	704	1.5+	0.4+
1997 06 09	809	0.9+	0.9+	2000 03 14	608	0.3−	0.5−	2000 04 08	704	0.3+	0.1−
1997 06 09	809	1.4+	0.8+	2000 03 14	608	0.4+	1.0−	2000 04 08	704	0.4+	0.4+
1997 06 09	809	0.1−	0.6−	2000 03 14	608	0.6−	0.3+	2000 04 08	704	0.1−	0.1−
2000 03 05	704	0.1−	0.2+	2000 03 26	699	0.2+	0.7+	2000 04 08	704	0.0	0.1−
2000 03 05	704	0.1−	0.6+	2000 03 26	699	0.2+	0.1+				
2000 03 05	704	0.4+	0.4+	2000 03 26	699	0.1−	0.1−				

2000 EV₁₃₆ = 1991 LA₂ = 1992 SN₂₂
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20316358	ω	215.36899	+0.43222508	+0.90010294		
<i>a</i>	2.8657534	Ω	80.29582	−0.81404194	+0.41557366		
<i>e</i>	0.0420717	<i>i</i>	3.18338	−0.38796547	+0.13081750		
<i>P</i>	4.85	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 06 06	809	1.1−	0.5+	2000 02 27	703	1.1+	1.2−	2000 03 29	704	0.7−	0.3+
1991 06 06	809	0.4+	0.6+	2000 02 27	703	(2.4−	0.1+)	2000 03 29	704	1.6−	0.1+
1991 06 06	809	1.1+	0.3+	2000 03 12	704	0.3+	0.1−	2000 03 29	704	0.4+	0.3+
1991 06 08	809	0.3+	0.5−	2000 03 12	704	0.6+	0.4+	2000 03 29	704	0.2+	1.2−
1991 06 08	809	0.3−	0.1−	2000 03 12	704	1.2+	1.1+	2000 04 08	704	0.2+	0.3+
1991 06 08	809	0.4−	0.8−	2000 03 12	704	0.8+	0.2+	2000 04 08	704	0.1−	0.4−
1992 09 22	809	0.6+	0.8+	2000 03 14	703	0.4−	0.7+	2000 04 08	704	0.2−	0.4+
1992 09 22	809	0.1−	0.6−	2000 03 14	703	0.1−	1.1−	2000 04 08	704	0.2+	0.1−
1992 09 22	809	0.1−	1.2−	2000 03 14	703	0.1+	0.2+	2000 04 10	704	0.1−	0.7−
1992 09 23	809	0.4−	0.3+	2000 03 14	703	0.3−	1.2−	2000 04 10	704	0.2−	0.1−
1992 09 23	809	0.5−	0.4+	2000 03 26	699	0.0	0.2−	2000 04 10	704	0.1+	0.9+
1992 09 23	809	0.7+	0.1−	2000 03 26	699	0.6−	0.3−	2000 04 10	704	0.4+	1.4−
2000 02 27	703	0.6−	0.1+	2000 03 26	699	0.1+	0.1+	2000 04 10	704	0.4−	1.1+
2000 02 27	703	0.1+	0.4−	2000 03 26	699	0.6−	1.6+				

2000 EY₁₃₆ = 1990 OS₅ = 1998 XM₈₀
Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27222488	ω	182.52348	+0.93440878	+0.35219725		
<i>a</i>	2.3578572	Ω	156.63482	−0.32441210	+0.90319863		
<i>e</i>	0.1320820	<i>i</i>	7.71881	−0.14709530	+0.24533512		
<i>P</i>	3.62	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 07 24	675	0.3−	0.4+	2000 03 12	704	1.1+	0.4+	2000 04 07	699	0.0	0.1−
1990 07 24	675	0.3+	0.3−	2000 03 14	703	0.6−	0.1+	2000 04 07	699	0.4+	0.2−
1998 12 15	704	0.9+	0.2−	2000 03 14	703	0.1+	0.1−	2000 04 08	704	0.3+	0.3−
1998 12 15	704	0.5+	0.5−	2000 03 14	703	1.2−	0.6−	2000 04 08	704	0.5−	0.1−
1998 12 15	704	0.9+	0.7−	2000 03 14	703	0.4−	0.4+	2000 04 08	704	0.1−	0.9−
1998 12 15	704	0.4−	0.8−	2000 03 26	699	0.0	0.3+	2000 04 08	704	0.4−	0.5−

2000 APR. 18

M.P.C. 40203

1998 12 15	704	0.8+	0.5−	2000 03 26	699	0.9−	0.2+	2000 04 08	704	0.3−	0.6+
1998 12 22	704	0.1−	0.3+	2000 03 26	699	0.1−	0.2+	2000 04 10	704	1.0+	0.0
1998 12 22	704	0.1+	0.6+	2000 03 26	699	0.6−	0.1−	2000 04 10	704	1.1−	0.0
1998 12 22	704	1.1−	0.4+	2000 03 29	704	0.1+	0.2−	2000 04 10	704	0.9+	0.3+
1998 12 22	704	0.4−	0.5+	2000 03 29	704	0.3+	0.4+	2000 04 10	704	0.3+	0.8+
1998 12 22	704	0.1−	0.4+	2000 03 29	704	0.4+	0.0	2000 04 10	704	0.2+	0.4−
1999 01 23	699	1.0−	0.3−	2000 03 29	704	0.7+	0.2+	2000 04 10	704	0.8+	0.4−
1999 01 23	699	0.7−	0.3+	2000 04 05	704	1.3−	0.4+	2000 04 10	704	0.4−	0.2−
1999 01 23	699	0.2+	0.5+	2000 04 05	704	0.3+	0.1+	2000 04 10	704	0.5+	0.2+
2000 02 27	703	(2.5−	2.1+)	2000 04 05	704	0.0	0.3−	2000 04 10	704	0.2+	0.3−
2000 02 27	703	1.5−	0.1+	2000 04 05	704	0.2+	0.3−	2000 04 13	704	1.0−	1.1−
2000 02 27	703	0.5−	0.2−	2000 04 06	608	(0.3−	2.2−)	2000 04 13	704	1.3+	0.3−
2000 02 27	703	1.2−	0.0	2000 04 06	608	(0.5+	2.2−)	2000 04 13	704	0.6+	0.0
2000 03 12	704	0.5−	0.3+	2000 04 06	608	1.4+	0.9−	2000 04 13	704	0.8+	1.3+
2000 03 12	704	0.6+	1.0+	2000 04 07	699	0.1+	0.0	2000 04 13	704	0.4+	0.3+
2000 03 12	704	0.2−	0.4+	2000 04 07	699	0.0	0.3−				

2000 EZ₁₃₆ = 1998 VP₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	48.19202		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.24532670	ω	3.12906	−0.48120462	−0.87506631		
<i>a</i>	2.5271993	Ω	115.64039	+0.80301550	−0.46380950		
<i>e</i>	0.1042181	<i>i</i>	3.30485	+0.35157961	−0.13834629		
<i>P</i>	4.02	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	1.4−	0.2−	2000 03 12	704	0.5+	0.1+	2000 03 29	704	1.0−	0.4+
1998 11 10	704	0.6+	0.4−	2000 03 12	704	0.4+	0.0	2000 03 29	704	0.7−	0.6−
1998 11 10	704	1.6−	0.5−	2000 03 12	704	0.2+	0.1−	2000 03 29	704	1.0−	0.0
1998 11 10	704	(3.9−	0.7−)	2000 03 12	704	0.7+	0.3+	2000 04 05	704	0.5+	0.5+
1998 11 11	704	1.2+	0.0	2000 03 14	703	0.3−	0.3+	2000 04 05	704	0.3+	0.6−
1998 11 11	704	0.8+	0.5−	2000 03 14	703	0.5+	0.3+	2000 04 05	704	0.8+	0.3+
1998 11 11	704	0.5+	0.1−	2000 03 14	703	0.5−	0.3+	2000 04 05	704	0.3+	0.6+
1998 11 11	704	0.3+	1.3+	2000 03 14	703	0.2−	0.5−	2000 04 10	704	0.2−	0.2−
1998 11 11	704	0.5−	0.5+	2000 03 26	699	0.0	0.2+	2000 04 10	704	0.1+	0.0
2000 02 27	703	0.3+	1.1−	2000 03 26	699	0.0	0.4+	2000 04 10	704	1.1+	0.0
2000 02 27	703	0.3+	0.4−	2000 03 26	699	0.2−	0.3−	2000 04 10	704	0.3+	0.1−
2000 02 27	703	0.9+	0.3+	2000 03 26	699	0.4−	0.3+	2000 04 10	704	0.0	0.2−
2000 02 27	703	1.1−	0.1+	2000 03 29	704	1.3−	0.1−				

2000 EB₁₃₇ = 1997 XM₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.87679		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18472051	ω	74.39809	−0.00775377	−0.99870993		
<i>a</i>	3.0534629	Ω	16.29584	+0.83522084	−0.03406359		
<i>e</i>	0.0775635	<i>i</i>	10.30247	+0.54986000	+0.03765841		
<i>P</i>	5.34	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 12 05	910	0.0	0.8+	2000 02 27	703	0.9−	0.5−	2000 04 04	704	0.6+	0.4+
1997 12 05	910	0.1−	0.4+	2000 02 27	703	1.2−	1.0−	2000 04 04	704	0.0	0.1−
1997 12 05	910	0.4−	0.7+	2000 02 27	703	0.1−	0.1+	2000 04 04	704	0.4+	0.4+
1997 12 06	910	0.5−	0.3+	2000 02 27	703	0.1−	0.0	2000 04 04	704	1.0+	0.3+
1997 12 06	910	0.4−	0.3+	2000 03 12	704	0.5+	0.0	2000 04 04	704	0.2−	0.7+
1997 12 06	910	0.3−	0.1+	2000 03 12	704	0.2+	0.2−	2000 04 07	699	0.8−	0.2−
1998 12 14	704	0.0	1.1−	2000 03 12	704	1.0+	0.3+	2000 04 07	699	0.0	0.2+
1998 12 14	704	0.0	0.2+	2000 03 14	703	0.6+	0.5−	2000 04 07	699	0.2+	0.5+
1998 12 14	704	0.9−	0.5−	2000 03 14	703	0.4−	0.1+	2000 04 07	699	0.3−	0.2+
1998 12 14	704	1.5+	0.8+	2000 03 14	703	0.4+	0.2+	2000 04 10	704	0.1−	0.1−
1998 12 14	704	0.0	1.4+	2000 03 14	703	0.2−	0.3+	2000 04 10	704	0.4+	0.0
1999 01 16	704	0.9−	2.0−	2000 03 26	699	0.6−	0.1−	2000 04 10	704	1.2+	0.0
1999 01 16	704	0.5+	1.0+	2000 03 26	699	0.7−	0.7+	2000 04 10	704	1.4+	1.3+
1999 01 16	704	0.3−	0.2+	2000 03 26	699	0.9−	0.5−				
1999 01 16	704	(6.5−	0.7−)	2000 03 26	699	0.0	0.6−				

2000 ED₁₃₇ = 1991 RE₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.08894		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.18196408	ω	303.95412	+0.94171948	+0.33093503		
<i>a</i>	3.0842218	Ω	36.82374	−0.26572157	+0.84186061		
<i>e</i>	0.1797223	<i>i</i>	5.78242	−0.20629219	+0.42632466		
<i>P</i>	5.42	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 09 12	675	0.5−	0.0	2000 03 14	703	0.9−	0.2+	2000 03 29	704	1.1−	0.2−
1991 09 12	675	1.1+	0.1−	2000 03 14	703	0.1+	0.6−	2000 03 29	704	1.1+	0.0
1991 09 16	675	0.0	0.1−	2000 03 14	703	0.4−	0.1−	2000 04 07	699	0.2−	0.7−
1991 09 16	675	0.7−	0.2+	2000 03 26	699	0.7−	0.3+	2000 04 07	699	1.0+	0.6+
2000 03 12	704	0.7+	0.0	2000 03 26	699	0.3+	0.2−	2000 04 07	699	0.3−	0.5+
2000 03 12	704	0.1+	0.6+	2000 03 26	699	0.1+	0.1−	2000 04 07	699	0.2−	0.2−
2000 03 12	704	0.3+	0.0	2000 03 26	699	0.0	0.3−				
2000 03 14	703	0.3+	0.2−	2000 03 29	704	0.2−	0.4+				

2000 EH₁₃₇ = 1995 VJ₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	100.51123		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.29801251	ω	31.55558	+0.52894900	−0.84828724		
<i>a</i>	2.2197959	Ω	26.53455	+0.76654451	+0.46495783		
<i>e</i>	0.1190209	<i>i</i>	3.19957	+0.36417368	+0.25342253		
<i>P</i>	3.31	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 11 15	400	0.6+	1.5+	2000 03 11	704	0.5+	0.5−	2000 03 26	734	0.4−	1.4+
1995 11 15	400	1.2+	0.5−	2000 03 11	704	(0.6+	2.8−)	2000 03 26	734	1.7−	1.6+
1995 11 16	400	0.6−	0.5−	2000 03 12	734	0.2−	0.1−	2000 03 26	734	0.5−	0.9−
1995 11 16	400	0.0	0.1+	2000 03 12	734	0.5+	0.6+	2000 03 26	699	0.7+	0.4+
1995 11 21	400	1.6−	0.4−	2000 03 12	734	0.2+	0.0	2000 03 26	699	0.4−	0.5+
1995 11 21	400	0.4−	0.6−	2000 03 12	734	0.7+	1.6−	2000 03 26	699	0.1+	1.4+
1995 11 22	400	0.7+	0.0	2000 03 25	734	0.5+	0.5−	2000 03 26	699	0.1−	0.9+
1995 11 22	400	0.0	0.6−	2000 03 25	734	0.4−	0.3−	2000 04 04	734	0.3−	0.7+
1995 11 25	400	0.5−	0.6+	2000 03 25	734	1.5−	0.0	2000 04 04	734	0.7−	0.4−
1995 11 25	400	0.5+	0.3+	2000 03 25	734	0.0	1.4−	2000 04 04	734	0.4+	0.1+
2000 03 11	704	0.5+	0.1−	2000 03 25	734	1.9−	0.2−	2000 04 05	704	1.3+	0.4+
2000 03 11	704	1.0+	0.0	2000 03 25	734	0.7−	0.1−	2000 04 05	704	1.0+	0.6−
2000 03 11	704	0.6+	0.1−	2000 03 26	734	0.4−	0.0	2000 04 05	704	1.4+	1.0−

2000 EL₁₃₇ = 1993 FJ₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.25872		(2000.0)		<i>P</i>		<i>Q</i>
<i>n</i>	0.28381635	ω	151.42659	−0.06387581	+0.98934651		
<i>a</i>	2.2932132	Ω	114.65118	−0.94081117	−0.01597624		
<i>e</i>	0.1084208	<i>i</i>	8.27566	−0.33285768	−0.14470053		
<i>P</i>	3.47	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 03 23	010	0.0	0.2−	2000 03 29	704	0.3+	0.2−	2000 04 08	704	0.2−	0.3+
1993 03 23	010	0.1−	0.1−	2000 03 29	704	0.2+	0.2+	2000 04 08	704	0.1+	0.3−
1993 03 23	010	0.7−	1.8−	2000 03 29	704	0.2+	0.2+	2000 04 10	704	0.0	0.3+
1993 03 25	010	(0.7+	2.6−)	2000 03 29	704	0.0	0.1−	2000 04 10	704	0.3+	0.6+
2000 03 07	704	0.2−	0.4+	2000 04 03	704	0.2+	0.2−	2000 04 10	704	0.6+	0.0
2000 03 07	704	0.1−	0.9+	2000 04 03	704	0.4−	0.2−	2000 04 10	704	0.5−	0.6+
2000 03 07	704	0.2+	0.8+	2000 04 03	704	0.1−	0.1−	2000 04 13	704	0.3+	0.3−
2000 03 11	699	0.2+	0.2+	2000 04 03	704	0.0	0.3+	2000 04 13	704	0.1+	0.4−
2000 03 11	699	0.4−	0.0	2000 04 03	704	0.0	0.4+	2000 04 13	704	0.2+	0.2+
2000 03 11	699	0.3+	0.4+	2000 04 08	704	0.6−	0.2−	2000 04 13	704	0.1−	0.8−
2000 03 11	699	0.6−	0.2+	2000 04 08	704	0.0	0.1+	2000 04 13	704	0.0	0.4−
2000 03 29	704	0.5+	0.2−	2000 04 08	704	0.1+	0.3−				

2000 EN₁₃₇ = 1999 CM₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	203.34847	ω	234.02605	+0.97305321	+0.16619213		
<i>a</i>	3.1150773	Ω	115.91847	-0.10815203	+0.94116329		
<i>e</i>	0.0765784	<i>i</i>	10.23646	-0.20364327	+0.29426490		
<i>P</i>	5.50	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1999 02 10	704	0.9-	0.4+	2000 03 11	699	0.3-	0.2+
1999 02 10	704	1.0-	0.3-	2000 03 11	699	0.1+	0.1+
1999 02 10	704	0.6-	0.5+	2000 03 11	699	0.0	0.2+
1999 02 10	704	0.8-	0.6+	2000 03 29	704	0.4-	0.5+
1999 02 10	704	0.9+	0.6+	2000 03 29	704	0.5-	0.6-
1999 02 13	704	0.9+	1.0-	2000 03 29	704	0.1+	0.0
1999 02 13	704	0.7+	1.0-	2000 03 29	704	0.2+	0.9-
1999 02 13	704	0.7+	0.2-	2000 03 29	704	0.4-	0.4-
1999 02 13	704	0.2+	0.5+	2000 04 05	704	0.1+	0.4-
2000 03 07	704	0.4+	0.4-	2000 04 05	704	0.2+	0.1+
2000 03 07	704	0.2+	0.2+	2000 04 05	704	0.2-	0.7+
2000 03 07	704	0.1-	0.5+	2000 04 05	704	1.0-	1.2-
2000 03 11	699	0.4+	0.1-	2000 04 05	704	0.1-	0.2+
2000 04 08	704	0.5+	0.1+	2000 04 08	704	0.5+	0.1+
2000 04 08	704	0.5+	0.4+	2000 04 08	704	0.9+	0.1+
2000 04 08	704	0.4+	0.2+	2000 04 08	704	0.1+	0.8+
2000 04 08	704	0.2+	0.4-	2000 04 10	608	0.2+	0.4-
2000 04 10	608	0.2+	0.3-	2000 04 10	608	0.3+	0.1-
2000 04 10	608	0.3+	0.1-	2000 04 13	704	0.6-	1.1+
2000 04 13	704	0.3-	0.6-	2000 04 13	704	0.6-	0.3-
2000 04 13	704	0.6-	0.3-	2000 04 13	704	0.1-	0.2-
2000 04 13	704	0.0	0.8+				

2000 EU₁₃₇ = 1996 FJ₆ = 1997 TU₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	295.27950	ω	110.01332	-0.12971568	+0.99037663		
<i>a</i>	2.3941059	Ω	152.39673	-0.94421043	-0.10852017		
<i>e</i>	0.0740347	<i>i</i>	5.97714	-0.30272182	-0.08589239		
<i>P</i>	3.70	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	1
Residuals in seconds of arc							
1996 03 17	691	0.6-	0.4+	1997 10 07	691	0.3-	0.0
1996 03 17	691	0.3-	0.0	1998 12 22	704	1.6+	1.1+
1996 03 17	691	0.3-	0.0	1998 12 22	704	0.0	0.7+
1996 03 24	691	0.3+	0.1+	1998 12 22	704	1.4-	0.2+
1996 03 24	691	0.5+	0.0	1998 12 22	704	0.9+	0.3-
1996 03 24	691	0.6+	0.2+	1998 12 22	704	1.1-	0.7-
1997 10 01	691	0.1+	0.7+	2000 03 09	704	1.0+	0.3+
1997 10 01	691	0.2+	0.6+	2000 03 09	704	0.1-	0.3+
1997 10 01	691	0.1-	0.4+	2000 03 09	704	1.2+	0.8+
1997 10 07	691	0.3-	0.6+	2000 03 09	704	0.1-	0.4+
1997 10 07	691	0.0	0.1-	2000 03 15	691	0.1-	0.6-
2000 03 15	691	0.3-	0.0	2000 03 15	691	0.2-	0.6-
2000 04 04	704	0.2-	0.3+	2000 04 04	704	0.2-	0.3+
2000 04 04	704	0.0	0.1+	2000 04 04	704	0.4-	0.1+
2000 04 04	704	0.4-	0.1+	2000 04 04	704	0.1-	0.5+
2000 04 04	704	0.8-	0.5+	2000 04 08	704	0.0	0.3-
2000 04 08	704	0.3+	0.5-	2000 04 08	704	0.3+	0.5-
2000 04 08	704	0.8+	0.3-	2000 04 08	704	0.5-	0.2+

2000 EY₁₃₇ = 1982 KZ₁ = 1998 XJ₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	213.02148	ω	225.11768	+0.71721177	+0.57335740		
<i>a</i>	2.4030024	Ω	95.73030	-0.47245284	+0.81787222		
<i>e</i>	0.1347879	<i>i</i>	23.45667	-0.51224564	+0.04843892		
<i>P</i>	3.73	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1982 05 24	381	1.4+	0.2-	1998 12 22	704	0.6+	0.6+
1982 05 24	381	1.1-	0.8+	1999 01 07	704	1.7+	0.3+
1998 11 19	699	0.5-	0.5-	1999 01 07	704	1.7-	1.0-
1998 11 19	699	0.0	0.9+	1999 01 07	704	0.7-	1.4+
1998 11 19	699	0.1-	0.6-	1999 01 07	704	0.5-	0.0
1998 12 15	704	0.1+	1.0-	2000 01 31	704	0.2+	0.1-
1998 12 15	704	0.1+	0.3+	2000 01 31	704	1.1+	0.7-
1998 12 15	704	0.2+	0.8+	2000 01 31	704	1.5-	0.1+
1998 12 15	704	0.2+	0.7+	2000 02 27	704	0.4+	0.4-
1998 12 15	704	(2.2-	0.5+)	2000 02 27	704	0.6+	0.7+
1998 12 17	699	0.6+	0.7-	2000 02 27	704	0.7+	0.2+
1998 12 17	699	1.3-	0.0	2000 02 27	704	0.1+	1.0+
2000 03 10	703	0.5-	0.1+	2000 03 10	703	0.5-	0.5-
2000 03 10	703	0.5+	0.5+	2000 03 10	703	0.2+	0.7+
2000 03 10	703	0.2+	0.7+				

1998 12 17	699	0.8-	0.6+	2000 02 27	704	0.2-	0.7+
1998 12 22	704	0.4+	1.5-	2000 03 10	703	1.0-	0.5-
1998 12 22	704	(2.5+	0.9-)	2000 03 10	703	0.5+	0.5+
1998 12 22	704	1.4+	0.1-	2000 03 10	703	0.2+	0.7+

2000 ED₁₃₉ = 1996 KS₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	348.00280	ω	131.64139	-0.94002659	+0.26010888		
<i>a</i>	2.6234744	Ω	64.51773	-0.33695517	-0.80866835		
<i>e</i>	0.1163552	<i>i</i>	14.14909	+0.05302095	-0.52763517		
<i>P</i>	4.25	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1996 05 22	809	1.7-	0.1-	2000 02 04	704	0.2+	0.8+
1996 05 22	809	1.1+	0.5-	2000 02 04	704	0.1-	0.7+
1996 05 22	809	1.6+	0.3+	2000 02 04	704	0.1+	0.9+
1996 05 22	566	0.2+	0.4-	2000 02 04	704	0.7+	0.5+
1996 05 22	566	0.0	0.4-	2000 03 05	704	0.4+	0.0
1996 05 22	566	0.3-	0.6-	2000 03 05	704	0.0	0.1-
1996 05 24	809	1.1+	1.2+	2000 03 05	704	0.3-	0.6+
1996 05 24	809	0.7+	1.2+	2000 03 11	703	0.2+	0.0
1996 05 24	809	1.8+	1.8+	2000 03 11	703	0.3-	0.1+
1996 06 20	566	0.5-	0.2+	2000 03 11	703	0.0	0.2+
1996 06 20	566	0.6-	0.2-	2000 03 11	703	0.0	0.1+
1996 06 20	566	1.4-	0.4-	2000 03 15	699	0.5-	0.1-
1998 11 24	704	0.7+	0.2+	2000 03 15	699	0.1-	0.3+
1998 11 24	704	0.3+	0.4+	2000 03 15	699	0.4-	0.1+
1998 11 24	704	0.0	0.2+	2000 03 15	699	0.5-	0.1+
1998 11 24	704	0.4+	0.3-	2000 03 15	704	0.0	0.2+
1998 12 17	704	0.7-	0.3+	2000 03 15	704	0.2-	0.3+
1998 12 17	704	1.1-	0.9-	2000 03 15	704	0.4-	0.3+
1998 12 17	704	0.1+	0.6+	2000 03 15	704	0.2-	0.7+
1998 12 17	704	0.2+	0.0	2000 03 15	704	0.4-	0.9+
1998 12 17	704	(2.4-	1.1+)	2000 03 29	704	0.3-	0.4-
2000 02 04	704	0.3-	0.4+	2000 03 29	704	0.1-	0.1+
2000 03 29	704	0.3+	0.1+	2000 03 29	704	0.3+	0.1+
2000 03 29	704	0.1-	0.2+	2000 03 29	704	0.1-	0.2+
2000 03 29	704	0.2+	0.3+	2000 03 29	704	0.2-	0.3+
2000 04 03	704	0.2-	0.1+	2000 04 03	704	0.2+	0.1+
2000 04 03	704	0.1+	0.3-	2000 04 03	704	0.1+	0.3-
2000 04 03	704	0.2+	0.0	2000 04 03	704	0.2+	0.0
2000 04 03	704	0.1-	0.0	2000 04 03	704	0.1-	0.0
2000 04 03	704	0.3+	0.0	2000 04 03	704	0.3+	0.0
2000 04 06	608	0.1+	1.3-	2000 04 06	608	0.4+	1.7-
2000 04 06	608	0.4+	1.7-	2000 04 06	608	0.2+	1.2-
2000 04 06	608	0.3-	0.0	2000 04 08	704	0.3-	0.0
2000 04 08	704	0.2-	0.4-	2000 04 08	704	0.1+	0.2+
2000 04 08	704	0.9+	1.3-	2000 04 08	704	0.1+	0.6-
2000 04 08	704	0.1+	0.6-	2000 04 13	704	0.1-	0.0
2000 04 13	704	0.3+	0.1-	2000 04 13	704	0.2-	0.7-
2000 04 13	704	0.2-	0.7-	2000 04 13	704	0.1-	0.2-
2000 04 13	704	0.2-	0.3-				

2000 EE₁₃₉ = 1986 VU₈ = 1998 YM₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	8.84028		(2000.0)		P		Q				
n	0.17503426	ω	86.13794		-0.96026686		-0.13788870				
a	3.1650992	Ω	85.81959		+0.02980281		-0.91511184				
e	0.1487820	i	14.08065		+0.27748756		-0.37888920				
P	5.63	H	13.4	G	0.15	U	2				
Residuals in seconds of arc											
1986 11 03	493	0.2+	1.3+	2000 02 04	704	0.1-	0.1-	2000 03 15	704	0.1+	0.5-
1986 11 03	493	0.6-	0.4-	2000 02 04	704	0.8+	0.3-	2000 03 15	704	1.3-	0.6+
1998 12 17	704	0.7-	0.1-	2000 02 04	704	0.8+	0.6+	2000 03 29	704	0.2-	0.4+
1998 12 17	704	0.4-	0.8-	2000 03 05	704	0.3+	0.2+	2000 03 29	704	0.2-	0.1-
1998 12 17	704	1.2+	0.1-	2000 03 05	704	0.2-	0.3+	2000 03 29	704	0.1-	0.3+
1998 12 17	704	(3.4-	0.7+)	2000 03 05	704	0.2-	0.1+	2000 03 29	704	0.7-	0.0
1998 12 19	704	0.2+	0.7+	2000 03 11	703	0.4-	0.0	2000 03 29	704	0.5-	0.2-
1998 12 19	704	0.6+	1.1+	2000 03 11	703	0.8-	0.1+	2000 04 03	704	0.6+	0.2-
1998 12 19	704	1.2+	0.3+	2000 03 11	703	1.5+	0.4-	2000 04 03	704	0.3+	1.1-
1998 12 19	704	1.1-	0.4-	2000 03 11	703	0.0	0.5-	2000 04 03	704	0.1+	0.0
1998 12 19	704	0.1+	1.0-	2000 03 12	699	0.3+	0.0	2000 04 03	704	0.7+	0.5-
1999 01 16	704	(2.3-	1.0+)	2000 03 12	699	0.3-	0.2+	2000 04 03	704	(2.4+	0.6-)
1999 01 16	704	0.7-	0.4+	2000 03 12	699	0.1-	0.6+	2000 04 08	704	0.2-	0.3+
1999 01 16	704	0.3-	0.7-	2000 03 12	699	0.2-	0.2+	2000 04 08	704	0.1+	0.4+
1999 01 16	704	(6.9-	0.6-)	2000 03 15	704	0.3+	0.5-	2000 04 08	704	0.4-	0.6+
2000 02 04	704	0.1+	0.2+	2000 03 15	704	0.2-	0.2-	2000 04 08	704	0.2+	0.1+
2000 02 04	704	0.2+	0.3-	2000 03 15	704	0.3+	0.1+	2000 04 08	704	0.0	0.2+

2000 APR. 18

M.P.C. 40205

2000 EN₁₃₉ = 1998 XY₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	125.54527		(2000.0)	P	Q
<i>n</i>	0.23751373	ω	309.51877	+0.65295929	-0.72559696
<i>a</i>	2.5823211	Ω	98.29321	+0.74465186	+0.56265713
<i>e</i>	0.1513459	<i>i</i>	12.67630	+0.13833936	+0.39613888
<i>P</i>	4.15	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 12 15	704	1.0-	0.2-	1999 02 04	704	0.8+	0.6-	2000 03 29	704	0.1-	0.3-
1998 12 15	704	1.0-	0.3-	1999 02 04	704	(2.6+	1.1-)	2000 03 29	704	0.5+	0.0
1998 12 15	704	0.8+	0.2-	1999 02 04	704	(3.5-	1.3+)	2000 03 29	704	0.0	0.3+
1998 12 15	704	0.1-	0.3+	2000 01 08	704	0.8-	0.2+	2000 03 29	704	0.7+	1.2+
1998 12 22	704	0.6+	0.0	2000 01 08	704	0.1-	0.4-	2000 04 03	704	0.0	0.5-
1998 12 22	704	(2.6-	0.9-)	2000 01 08	704	0.4+	0.1+	2000 04 03	704	0.1-	0.8-
1998 12 22	704	0.0	0.4-	2000 03 11	703	0.2+	1.2+	2000 04 03	704	0.5-	0.3+
1998 12 22	704	0.6+	0.4+	2000 03 11	703	0.1-	0.2-	2000 04 03	704	0.3+	0.5+
1999 01 11	704	1.6+	0.7+	2000 03 11	703	0.3+	0.3-	2000 04 03	704	0.1+	0.7+
1999 01 11	704	0.6-	0.7+	2000 03 11	703	1.0-	0.3+	2000 04 08	704	0.8+	0.0
1999 01 11	704	0.1-	0.7+	2000 03 15	699	0.3+	0.6-	2000 04 08	704	0.2-	0.4-
1999 01 11	704	1.3-	0.7+	2000 03 15	699	0.4-	0.4-	2000 04 08	704	0.1-	0.1+
1999 01 11	704	1.8-	0.8+	2000 03 15	699	0.3-	0.5-	2000 04 08	704	0.3+	0.2+
1999 02 04	704	0.8+	1.4-	2000 03 15	699	0.3+	0.6-	2000 04 08	704	0.4-	0.6+
1999 02 04	704	1.4+	1.3-	2000 03 29	704	0.1+	0.4-				

2000 ER₁₃₉ = 1998 XX₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	72.06644		(2000.0)	P	Q
<i>n</i>	0.18679742	ω	49.59772	-0.15109257	-0.97751045
<i>a</i>	3.0307874	Ω	49.72509	+0.83847591	-0.20555926
<i>e</i>	0.1064611	<i>i</i>	11.11801	+0.52357347	+0.04710309
<i>P</i>	5.28	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1998 12 14	704	0.2+	0.4-	1999 01 16	704	1.2+	0.3-	2000 03 15	699	0.0	0.1+
1998 12 14	704	0.1+	0.0	2000 01 08	704	0.2-	0.1-	2000 03 29	704	0.1+	0.2+
1998 12 14	704	0.8-	1.0+	2000 01 08	704	0.1-	0.8-	2000 03 29	704	0.0	0.3+
1998 12 14	704	1.4+	1.5+	2000 01 08	704	0.1+	0.3-	2000 03 29	704	0.4+	0.2+
1998 12 14	704	1.7+	0.7+	2000 01 08	704	0.3-	0.1-	2000 03 29	704	0.2+	0.4+
1998 12 17	704	0.7-	0.1-	2000 03 12	703	0.1-	0.0	2000 03 29	704	0.4+	0.1-
1998 12 17	704	0.8-	0.6-	2000 03 12	703	0.0	0.1-	2000 04 05	704	0.1-	0.1+
1998 12 17	704	0.6-	0.2-	2000 03 12	703	0.3-	0.1-	2000 04 05	704	0.3+	0.3+
1998 12 17	704	1.3-	0.2+	2000 03 12	703	0.6-	0.4-	2000 04 05	704	0.3-	0.5+
1999 01 16	704	0.0	0.2+	2000 03 15	699	0.2+	0.0	2000 04 05	704	0.2+	0.0
1999 01 16	704	0.7-	0.5-	2000 03 15	699	0.2+	0.1+	2000 04 05	704	0.0	0.4-
1999 01 16	704	0.4+	1.3-	2000 03 15	699	0.1-	0.2+				

2000 EF₁₄₀ = 1998 XV₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	328.79883		(2000.0)	P	Q
<i>n</i>	0.18519133	ω	116.11026	-0.89670178	+0.39575664
<i>a</i>	3.0482853	Ω	87.74946	-0.44262935	-0.80402494
<i>e</i>	0.0439045	<i>i</i>	11.44352	+0.00227456	-0.44375735
<i>P</i>	5.32	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	(2.6-	1.0+)	2000 03 12	704	0.1+	0.0	2000 04 08	704	0.2+	0.3+
1998 12 14	704	0.4+	0.5-	2000 03 12	704	0.0	0.2-	2000 04 08	704	0.0	0.5+
1998 12 14	704	0.3+	0.5+	2000 03 12	704	0.1-	0.1+	2000 04 08	704	0.1-	0.0
1998 12 14	704	0.5-	0.9+	2000 03 12	704	0.2+	0.1-	2000 04 08	704	0.0	0.0
1998 12 17	704	0.1+	0.3-	2000 03 28	704	0.0	0.5-	2000 04 08	704	0.1+	0.1+
1998 12 17	704	0.6+	0.6-	2000 03 28	704	0.7+	0.0	2000 04 12	608	0.2-	0.1-
1998 12 17	704	0.1+	0.1+	2000 03 28	704	0.1+	1.2-	2000 04 12	608	0.3-	0.0
1998 12 17	704	0.5-	0.5+	2000 04 04	704	0.1+	0.7+	2000 04 12	608	0.3-	0.2-
1998 12 17	704	0.3-	0.6-	2000 04 04	704	0.1+	0.5+	2000 04 13	704	0.2-	0.3+

2000 03 05	704	0.9-	0.0	2000 04 04	704	0.1-	1.2+	2000 04 13	704	0.0	0.9-
2000 03 05	704	(4.4-	2.2+)	2000 04 04	704	0.7+	0.4+	2000 04 13	704	0.1-	0.2+
2000 03 05	704	(3.8-	0.2-)	2000 04 04	704	0.4+	0.3-	2000 04 13	704	0.4+	0.2+
2000 03 05	704	(3.9-	0.3-)	2000 04 06	608	0.0	0.8-	2000 04 13	704	0.4-	1.1+
2000 03 05	704	(4.2-	0.1-)	2000 04 06	608	0.2-	0.9-				
2000 03 12	704	0.0	0.1+	2000 04 06	608	0.1-	0.3-				

2000 EM₁₄₁ = 1981 UF₂₈ = 1991 RY₁₄ = 1998 VW₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	197.59535		(2000.0)	P	Q
<i>n</i>	0.29163210	ω	331.73230	+0.90358830	+0.42836676
<i>a</i>	2.2520559	Ω	2.92029	-0.36996431	+0.78672547
<i>e</i>	0.1140672	<i>i</i>	6.18323	-0.21599676	+0.44448279
<i>P</i>	3.38	<i>H</i>	14.7	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1981 10 24	675	0.5-	0.9+	1998 11 11	704	0.5+	1.0-	2000 03 11	704	0.1+	0.0
1981 10 25	675	0.3+	0.4-	1998 11 11	704	1.0+	0.5-	2000 03 11	704	0.1-	0.4+
1981 10 26	675	0.1-	0.1-	2000 03 02	703	0.2-	0.2-	2000 04 05	704	0.1-	0.3-
1991 09 11	675	1.3+	0.1-	2000 03 02	703	0.6-	0.2+	2000 04 05	704	0.0	0.1-
1991 09 11	675	1.8-	0.2-	2000 03 02	703	0.6-	1.4-	2000 04 05	704	0.0	0.4+
1991 09 15	675	0.5+	0.4-	2000 03 02	703	0.3-	1.0+	2000 04 05	704	0.5+	0.4+
1991 09 15	675	0.7+	0.3-	2000 03 03	704	0.3-	0.3-	2000 04 05	704	0.1-	0.8+
1998 11 10	704	0.8-	0.2-	2000 03 03	704	0.4-	0.3-	2000 04 06	704	0.8+	0.2-
1998 11 10	704	0.7-	1.1+	2000 03 03	704	0.0	0.8-	2000 04 06	704	0.6+	0.8+
1998 11 10	704	0.4+	1.5+	2000 03 03	704	0.8+	0.7-	2000 04 06	704	0.5-	0.3+
1998 11 10	704	(2.9-	0.4+)	2000 03 11	704	0.3-	0.3-	2000 04 06	704	0.1-	0.5+
1998 11 11	704	0.4+	0.1-	2000 03 11	704	0.2+	0.4-				
1998 11 11	704	1.1-	0.6-	2000 03 11	704	0.0	0.4-				

2000 EO₁₄₁ = 1993 FE₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	221.69322		(2000.0)	P	Q
<i>n</i>	0.27391677	ω	313.92326	+0.73568998	+0.67727220
<i>a</i>	2.3481381	Ω	3.47392	-0.57798879	+0.63384825
<i>e</i>	0.1309385	<i>i</i>	7.50406	-0.35311360	+0.37354887
<i>P</i>	3.60	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 03 21	809	1.1-	0.8-	2000 03 02	106	0.1+	0.6+	2000 04 05	704	0.4+	0.0
1993 03 22	809	0.1+	0.2-	2000 03 03	704	0.2+	0.1+	2000 04 05	704	0.1+	0.2+
1993 03 27	809	0.2-	1.4-	2000 03 03	704	0.1-	0.2+	2000 04 05	704	0.2-	0.2+
1994 10 13	691	0.1-	0.7+	2000 03 03	704	0.4+	0.1-	2000 04 05	704	0.1-	0.0
1994 10 13	691	0.4-	0.3+	2000 03 03	704	0.4+	0.1-	2000 04 06	704	0.3+	0.1+
1994 10 13	691	0.4-	0.4+	2000 03 03	704	0.4+	0.1-	2000 04 06	704	0.7+	0.7+
1998 12 17	704	0.3+	0.1+	2000 03 11	699	0.2-	0.0	2000 04 06	704	0.0	0.8+
1998 12 17	704	0.5+	0.4-	2000 03 11	699	0.5-	0.5+	2000 04 06	704	0.4+	1.0+
1998 12 17	704	0.7+	0.2-	2000 03 11	699	0.3-	0.8+	2000 04 06	608	0.3+	0.8-
1998 12 17	704	1.1-	1.0-	2000 03 11	704	0.6-	0.0	2000 04 06	608	0.2+	1.7-
2000 03 02	703	0.3-	0.1+	2000 03 11	699	0.2-	0.2+	2000 04 06	608	0.3+	1.4-
2000 03 02	703	0.4-	0.5-	2000 03 11	704	0.2+	0.6+	2000 04 07	704	0.2+	0.3-
2000 03 02	703	0.1-	0.6-	2000 03 11	704	0.1-	0.2+	2000 04 07	704	0.5-	0.6-
2000 03 02	703	1.2+	0.5+	2000 03 11	704	0.4+	0.7+	2000 04 07	704	0.2-	0.2+
2000 03 02	106	0.5+	0.3+	2000 03 11	704	0.1-	0.4+	2000 04 07	704	0.2-	0.3+
2000 03 02	106	0.4-	0.5+	2000 04 05	704	0.2-	0.5+				

2000 ET₁₄₁ = 1981 RD₇ = 1998 XR₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	253.16060		(2000.0)	P	Q
n	0.24548087	ω	194.81057	+0.39096078	+0.91922878
a	2.5261412	Ω	98.22116	-0.83960139	+0.37690833
e	0.1319609	i	2.69656	-0.37711958	+0.11383566
P	4.02	H	13.7	G 0.15	U 4

Residuals in seconds of arc

1981 09 03	675	0.1−	1.0+	2000 02 11	704	0.6+	0.4+	2000 04 05	704	0.1+	0.0
1981 09 04	675	0.5−	0.7+	2000 03 02	703	0.6−	0.1−	2000 04 05	704	0.2−	0.1−
1998 12 15	704	0.4+	0.8+	2000 03 02	703	0.0	0.2−	2000 04 05	704	0.1−	0.5+
1998 12 15	704	0.1+	0.6+	2000 03 02	703	0.4+	0.7+	2000 04 06	049	0.5+	0.6−
1998 12 15	704	0.6−	0.4+	2000 03 02	703	0.7−	0.0	2000 04 06	049	0.9+	0.7−
1998 12 15	704	0.2+	0.1+	2000 03 06	608	(0.3−	2.8−)	2000 04 06	049	0.5+	0.2−
1998 12 15	704	0.0	0.0	2000 03 06	608	0.5−	0.5−	2000 04 07	049	0.7+	0.7−
1998 12 16	704	0.5−	0.5+	2000 03 06	608	0.3−	0.3−	2000 04 08	049	1.1+	0.7−
1998 12 16	704	0.1−	0.2+	2000 03 12	704	0.0	0.2+	2000 04 08	049	1.0+	0.6−
1998 12 16	704	0.7+	0.9−	2000 03 12	704	(2.3−	1.6−)	2000 04 08	704	0.1−	0.2−
1998 12 16	704	0.0	0.1−	2000 03 12	704	0.1+	0.2−	2000 04 08	704	0.1+	0.1+
1998 12 22	704	1.4+	0.7−	2000 03 12	704	0.7−	0.5−	2000 04 08	704	0.4−	0.2+
1998 12 22	704	0.0	1.0−	2000 03 12	704	0.5−	0.2−	2000 04 08	704	0.2+	0.6+
1998 12 22	704	(0.5−	2.4+)	2000 03 26	699	0.6−	0.0	2000 04 08	704	0.1+	0.3−
1998 12 22	704	1.7−	0.7+	2000 03 26	699	0.7−	0.1+	2000 04 09	049	0.7+	0.8−
2000 02 06	704	0.1−	0.2−	2000 03 26	699	0.5−	0.0	2000 04 09	049	0.6+	0.6−
2000 02 06	704	1.0−	0.0	2000 03 26	699	0.9−	0.2+	2000 04 09	049	1.6−	0.7−
2000 02 06	704	(0.4+	2.4+)	2000 04 02	699	0.3+	0.6+	2000 04 10	704	0.7−	0.3+
2000 02 06	704	0.2−	0.8+	2000 04 02	699	0.1−	0.7+	2000 04 10	704	0.2−	0.7+
2000 02 06	704	(0.9+	2.4+)	2000 04 02	699	0.0	0.9+	2000 04 10	704	0.1+	1.0+
2000 02 11	704	1.4+	0.1−	2000 04 02	699	0.5+	0.8+	2000 04 10	704	0.1+	0.3+
2000 02 11	704	(2.5+	0.6+)	2000 04 05	704	0.1−	0.2+	2000 04 10	704	0.2−	0.4+
2000 02 11	704	1.4+	0.5+	2000 04 05	704	0.4+	0.4+				

2000 EW₁₄₁ = 1999 CY₁₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	184.91859	(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.18863190	ω	250.35476	+0.97096051		−0.15288064	
<i>a</i>	3.0111054	Ω	118.06119	+0.20346645		+0.93229965	
<i>e</i>	0.1035248	<i>i</i>	12.03643	−0.12584554		+0.32778785	
<i>P</i>	5.23	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1994 02 12	691	0.2+	0.5+	1999 02 13	704	0.1−	1.7+	2000 03 12	699	0.3−	0.1+
1994 02 12	691	0.1−	0.0	1999 02 13	704	0.0	0.0	2000 03 12	699	0.0	0.2−
1994 02 12	691	0.0	0.1−	1999 02 13	704	0.1−	1.0+	2000 03 29	704	0.5−	0.5−
1998 11 22	691	0.4+	0.3+	1999 02 18	566	0.9−	0.3+	2000 03 29	704	0.5−	0.2−
1998 11 22	691	0.6+	0.4+	1999 02 18	566	0.3−	0.5+	2000 03 29	704	0.6−	0.4−
1998 11 22	691	0.5+	0.3+	1999 02 18	566	0.4−	0.4+	2000 03 29	704	0.1+	0.4−
1999 01 19	704	1.2+	1.3−	1999 02 23	699	(0.3+	2.7+)	2000 03 29	704	0.8−	0.8−
1999 01 19	704	1.9−	0.7−	1999 02 23	699	1.1+	0.3+	2000 04 05	704	0.5+	0.1+
1999 01 19	704	0.2+	0.7−	1999 02 23	699	0.6+	0.4+	2000 04 05	704	0.4+	0.1+
1999 01 19	704	0.6+	0.9−	2000 03 02	703	0.1+	0.2+	2000 04 05	704	0.3+	0.2−
1999 01 19	704	(2.3−	0.5−)	2000 03 02	703	(2.2−	0.3+)	2000 04 05	704	0.2−	0.1+
1999 02 10	704	0.5+	0.9−	2000 03 02	703	0.7−	0.2−	2000 04 13	704	0.5−	1.2+
1999 02 10	704	1.1−	0.4−	2000 03 02	703	0.2−	0.4−	2000 04 13	704	0.5+	0.5+
1999 02 10	704	0.3+	0.2+	2000 03 07	704	0.7+	0.2+	2000 04 13	704	0.4+	0.3+
1999 02 10	704	0.1−	0.4−	2000 03 07	704	0.2+	0.2−	2000 04 13	704	0.7+	0.9+
1999 02 10	704	0.5−	0.6−	2000 03 07	704	0.2+	0.8+	2000 04 13	704	0.0	0.8−
1999 02 13	704	0.4−	0.0	2000 03 12	699	0.2−	0.3−				
1999 02 13	704	0.2−	0.1+	2000 03 12	699	0.1+	0.0				

2000 EZ₁₄₁ = 1979 OR₁₂ = 1982 BK₁₅ = 1998 XL₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	13.24158	(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.22558597	ω	41.67812	−0.97830432		−0.10281683	
<i>a</i>	2.6725632	Ω	131.47707	+0.05766546		−0.96899236	
<i>e</i>	0.1185452	<i>i</i>	13.89019	+0.19898583		−0.22468314	
<i>P</i>	4.37	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 07 26	675	(1.3−	4.1+)	1999 01 13	699	0.1+	0.5+	2000 03 07	704	0.6+	1.5+
1979 07 27	675	0.0	2.0+	1999 01 13	699	0.2−	0.1+	2000 03 12	699	0.9+	0.2−
1982 01 30	675	0.2−	1.0−	1999 01 13	699	0.1−	0.5+	2000 03 12	699	0.2+	0.0

1982 01 31	675	0.1+	0.9−	1999 11 16	703	0.7+	0.3+	2000 03 12	699	0.6+	0.1−
1998 12 15	704	0.4+	0.4+	1999 11 16	703	0.3+	0.7+	2000 03 12	699	0.5+	0.1−
1998 12 15	704	0.3+	0.8−	1999 11 16	703	0.0	0.7+	2000 04 03	704	0.0	0.3+
1998 12 15	704	0.3−	0.8+	1999 11 16	703	0.2+	0.4−	2000 04 03	704	0.4−	0.6+
1998 12 15	704	0.2−	0.3−	2000 02 06	704	0.2−	0.5+	2000 04 03	704	0.4+	0.7+
1998 12 15	704	0.5−	1.8+	2000 02 06	704	0.1+	0.3+	2000 04 03	704	0.4+	0.9+
1998 12 17	699	0.5−	0.6+	2000 02 06	704	0.6−	0.3+	2000 04 08	704	0.2+	0.3+
1998 12 17	699	0.2−	0.8+	2000 02 06	704	0.3+	0.1+	2000 04 08	704	0.2−	0.4+
1998 12 17	699	0.2+	0.5+	2000 02 06	704	0.1+	0.3+	2000 04 08	704	0.0	0.2+
1998 12 22	704	0.3+	0.2−	2000 03 02	703	0.1−	0.2−	2000 04 13	608	0.4−	0.0
1998 12 22	704	0.3−	0.5+	2000 03 02	703	0.6−	0.4−	2000 04 13	608	0.1+	0.1−
1998 12 22	704	0.3−	0.4+	2000 03 02	703	0.1+	0.1−	2000 04 13	608	0.0	0.0
1998 12 22	704	0.2−	1.2−	2000 03 02	703	0.1−	0.5−	2000 04 14	704	0.3+	0.2+
1998 12 22	704	0.8−	0.0	2000 03 02	703	0.0	0.0	2000 04 14	704	0.6−	0.1−
1999 01 07	704	0.6+	0.5−	2000 03 02	703	0.0	0.0	2000 04 14	704	0.3−	0.1−
1999 01 07	704	(1.0+	2.4+)	2000 03 02	703	0.0	0.3−	2000 04 14	704	0.3−	0.6−
1999 01 07	704	(2.8−	1.1−)	2000 03 02	703	0.0	0.5+	2000 04 14	704	0.5−	1.1−
1999 01 07	704	0.7+	0.2−	2000 03 07	704	0.1+	0.8−				
1999 01 07	704	(2.5−	0.6+)	2000 03 07	704	0.0	0.3+				

2000 EC₁₄₄ = 1998 WK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			
<i>M</i>	35.49362	(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.19078848	ω	225.11629	−0.44401755		−0.88169641	
<i>a</i>	2.9883717	Ω	251.85712	+0.86212556		−0.37187895	
<i>e</i>	0.0904627	<i>i</i>	9.66629	+0.24410641		−0.29037473	
<i>P</i>	5.17	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 11 11	704	0.3−	0.2−	1998 12 11	376	1.3+	1.3−	2000 03 03	703	0.5+	0.4+
1998 11 11	704	0.0	0.7−	1999 02 07	691	0.5−	0.1−	2000 03 03	703	0.0	0.2+
1998 11 11	704	0.3−	0.4+	1999 02 07	691	0.6−	0.1+	2000 03 03	703	0.2−	0.1+
1998 11 11	704	0.9+	0.4+	1999 02 07	691	0.2−	0.1−	2000 03 09	704	0.3+	0.3−
1998 11 18	704	0.4+	0.3+	2000 01 11	699	1.6+	0.1−	2000 03 09	704	0.6+	0.5+
1998 11 18	704	0.1−	0.2−	2000 01 11	699	0.8+	0.2+	2000 03 09	704	(2.2+	1.3+)
1998 11 18	704	0.1−	0.2+	2000 01 11	704	0.7−	0.5+	2000 03 09	704	0.1−	0.1+
1998 11 18	704	0.0	0.3−	2000 01 11	699	1.2+	1.1+	2000 04 04	699	0.1+	0.0
1998 11 18	704	0.7−	0.6+	2000 01 11	704	1.1−	0.9−	2000 04 04	699	0.1−	0.3+
1998 11 23	376	0.1−	0.2+	2000 01 11	704	1.4−	0.7−	2000 04 04	699	0.3+	0.4−
1998 11 23	376	0.5−	0.0	2000 01 11	704	0.3−	1.5−	2000 04 04	704	0.2−	0.1+
1998 11 25	376	0.1−	0.8+	2000 02 08	704	0.0	0.0	2000 04 04	699	0.5−	0.3+
1998 11 25	376	0.4−	0.1+	2000 02 08	704	0.2+	0.0	2000 04 04	704	1.2+	0.0
1998 11 28	376	(2.3−	1.0+)	2000 02 08	704	0.6−	1.0−	2000 04 04	704	(2.5−	0.0)
1998 11 28	376	0.4−	1.3+	2000 02 08	704	0.2−	0.1+	2000 04 04	704	1.1−	0.6+
1998 12 11	376	1.2+	1.0−	2000 03 03	703	0.0	0.4+				

2000 EW₁₄₄ = 1997 SZ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams				Williams			

2000 APR. 18

M.P.C. 40207

2000 EO₁₄₅ = 1991 XO₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.71460		(2000.0)		P		Q		
<i>n</i>	0.27696186	ω	109.36156		+0.97223339		+0.21206165		
<i>a</i>	2.3308951	Ω	238.50720		−0.23330594		+0.91122380		
<i>e</i>	0.1064172	<i>i</i>	6.66409		+0.01818169		+0.35313034		
<i>P</i>	3.56	<i>H</i>	14.4		<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1991 12 11	033	0.4+	0.1−	2000 03 03	703	1.6−	0.3+	2000 03 17	704	0.2+	0.7+
1991 12 12	033	0.1+	0.1−	2000 03 03	703	0.2+	0.5−	2000 03 17	704	0.6+	0.4+
1991 12 12	033	0.5−	0.0	2000 03 09	704	0.0	0.3−	2000 03 17	704	1.3+	0.5+
1998 12 22	704	1.1+	0.9+	2000 03 09	704	0.5−	0.2+	2000 04 07	704	0.3−	0.2−
1998 12 22	704	0.6−	0.2+	2000 03 09	704	0.1−	0.0	2000 04 07	704	0.1−	0.1+
1998 12 22	704	0.6−	0.0	2000 03 12	699	1.1−	0.3−	2000 04 07	704	0.2+	0.7−
1998 12 22	704	0.1+	0.9−	2000 03 12	699	0.2+	0.1+	2000 04 07	704	0.2−	0.1−
2000 03 03	703	1.0+	0.5−	2000 03 12	699	0.6−	0.4+	2000 04 07	704	0.7+	0.4+
2000 03 03	703	0.6+	0.1−	2000 03 12	699	0.4−	0.1−				

2000 EV₁₄₅ = 1997 LX₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	13.27311			(2000.0)			P		Q		
<i>n</i>	0.28377437	ω		66.95238			−0.81431311		−0.56913079		
<i>a</i>	2.2934394	Ω		78.17622			+0.48076923		−0.77136673		
<i>e</i>	0.0507410	<i>i</i>		6.68547			+0.32520010		−0.28475168		
<i>P</i>	3.47	<i>H</i>	14.8		<i>G</i>	0.15		<i>U</i>	4		

Residuals in seconds of arc

1997 06 07	809	1.2+	0.3−	2000 03 03	608	0.5−	1.3−	2000 03 26	699	0.5+	0.0
1997 06 07	809	0.1+	0.7−	2000 03 03	608	0.6−	0.4−	2000 03 26	699	0.7+	0.1+
1997 06 07	809	0.1+	0.6+	2000 03 05	704	0.2−	0.8−	2000 03 26	699	0.2+	0.4−
1997 06 08	809	0.3−	0.5+	2000 03 05	704	0.5−	0.5−	2000 03 26	699	0.1−	0.0
1997 06 08	809	0.5−	0.4−	2000 03 05	704	0.4−	0.1+	2000 03 28	704	0.1−	0.2+
1997 06 08	809	0.9−	0.3−	2000 03 05	704	0.1+	0.1−	2000 03 28	704	0.3−	0.7+
2000 02 03	704	0.5+	0.5−	2000 03 05	704	0.3−	0.2−	2000 03 28	704	0.3+	0.2+
2000 02 03	704	0.1−	0.1+	2000 03 12	704	0.2−	0.1−	2000 03 28	704	0.4−	0.3+
2000 02 03	704	0.3−	0.1+	2000 03 12	704	0.3+	0.1−	2000 04 04	704	0.7+	0.3+
2000 02 03	704	0.5+	0.4−	2000 03 12	704	1.0−	1.3+	2000 04 04	704	0.7+	0.3−
2000 02 03	704	0.4+	0.1−	2000 03 12	704	0.1−	1.2+	2000 04 04	704	0.5+	0.8+
2000 03 03	608	0.2−	0.7−	2000 03 12	704	0.2+	0.6+	2000 04 04	704	0.1+	0.0

2000 EJ₁₄₇ = 1980 FO₅ = 1990 DH₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	307.96440		(2000.0)			P		Q			
<i>n</i>	0.29737838	ω	260.75588			−0.47728468		+0.87826653			
<i>a</i>	2.2229505	Ω	340.65343			−0.76780475		−0.43290816			
<i>e</i>	0.0933512	<i>i</i>	5.04065			−0.42740520		−0.20307245			
<i>P</i>	3.31	<i>H</i>	14.8		<i>G</i>	0.15		<i>U</i>	2		
Residuals in seconds of arc											
1980 03 23	809	0.8−	0.1−	1998 11 11	704	0.1−	1.1+	2000 04 07	704	0.2+	0.5+
1990 02 27	809	0.2−	0.4−	1998 12 16	699	0.7+	0.4+	2000 04 07	704	0.4+	0.6+
1990 02 27	809	0.1−	0.2−	1998 12 16	699	0.1−	1.6+	2000 04 07	704	0.3−	0.7+
1990 02 27	809	0.4−	0.1−	1998 12 16	699	1.1−	1.5−	2000 04 08	704	0.3+	0.0
1990 03 01	809	0.1−	0.2−	2000 03 04	703	0.6−	0.6+	2000 04 08	704	0.0	0.0
1990 03 01	809	0.5+	0.2−	2000 03 04	703	0.3−	0.4+	2000 04 08	704	0.6+	0.5+
1990 03 01	809	1.2+	0.5−	2000 03 04	703	0.2−	0.5+	2000 04 08	704	0.4+	0.4+
1993 01 26	691	0.5−	0.6−	2000 03 04	703	0.4−	0.4+	2000 04 08	704	0.4+	0.1+
1993 01 26	691	0.4−	0.7−	2000 03 09	704	0.3+	0.1+	2000 04 10	704	0.1+	0.2−
1993 01 26	691	0.0	0.5−	2000 03 09	704	0.9+	0.2+	2000 04 10	704	0.6+	1.2−
1998 11 11	704	0.1+	0.6+	2000 03 09	704	0.2−	0.3+	2000 04 10	704	0.1−	0.2−
1998 11 11	704	0.5−	1.0+	2000 04 07	704	0.1−	0.2+	2000 04 10	704	0.2−	0.1−
1998 11 11	704	(1.4−	2.4+)	2000 04 07	704	0.1+	0.6+	2000 04 10	704	0.3−	0.1+

2000 EK₁₄₇ = 1978 WD₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.79578			(2000.0)			P		Q		
<i>n</i>	0.29664655	ω		67.04185			+0.22558384		+0.97382612		
<i>a</i>	2.2266050	Ω		216.03104			−0.91026871		+0.20050856		
<i>e</i>	0.1424879	<i>i</i>		2.71198			−0.34716396		+0.10704672		
<i>P</i>	3.32	<i>H</i>	15.0		<i>G</i>	0.15		<i>U</i>	4		
Residuals in seconds of arc											
1978 11 29	675	0.7−	1.4+	2000 03 10	704	0.6−	0.6−	2000 04 07	704	0.4+	1.4−
1978 11 30	675	0.5+	0.6+	2000 03 10	704	0.4−	0.2−	2000 04 07	704	0.2+	0.2−
1993 03 03	691	0.4+	0.2−	2000 03 10	704	0.8−	1.9−	2000 04 07	704	0.5+	0.0
1993 03 03	691	0.2+	0.0	2000 04 03	699	0.0	0.2+	2000 04 07	704	0.2+	0.5−
1993 03 03	691	0.2+	0.3−	2000 04 03	699	0.1−	0.2−	2000 04 07	704	0.1−	1.1+
1993 03 03	691	0.3−	0.2−	2000 04 03	699	0.8+	0.3+	2000 04 08	704	0.5−	0.2+
1993 03 03	691	0.0	0.0	2000 04 03	699	0.2−	0.5−	2000 04 08	704	0.7+	0.2−
1993 03 03	691	0.2−	0.4−	2000 04 06	699	0.1−	0.4+	2000 04 08	704	0.6−	0.0
1993 03 19	691	0.4−	0.1−	2000 04 06	704	0.1−	0.1+	2000 04 08	704	0.6+	0.4+
1993 03 19	691	0.4−	0.3−	2000 04 06	699	0.3+	0.2+	2000 04 08	704	0.5+	0.3+
2000 03 04	703	0.6+	0.3+	2000 04 06	704	0.1−	0.2+	2000 04 10	704	1.1−	0.7+
2000 03 04	703	0.3+	0.5+	2000 04 06	704	0.2−	0.5+	2000 04 10	704	0.5+	1.2+
2000 03 04	703	0.2+	0.8−	2000 04 06	699	0.0	0.1+	2000 04 10	704	0.1−	0.9+
2000 03 04	703	0.6+	0.3−	2000 04 06	704	0.3−	0.2+	2000 04 10	704	0.1+	0.7+
2000 03 10	704	0.3−	0.7−	2000 04 06	699	0.2−	0.4+	2000 04 10	704	0.4+	0.2−
2000 03 10	704	0.2−	0.4−	2000 04 06	704	0.2−	0.6+				

2000 EN₁₄₇ = 1980 WV₂ = 1998 XC₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	177.58373		(2000.0)		P		Q				
<i>n</i>	0.27506644	ω	159.39488		+0.99133705		−0.12014070				
<i>a</i>	2.3415907	Ω	207.66976		+0.09871431		+0.94808813				
<i>e</i>	0.1192200	<i>i</i>	6.56301		+0.08663915		+0.29444034				
<i>P</i>	3.58	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	4			
Residuals in seconds of arc											
1980 11 29	675	0.2+	0.2+	2000 03 05	608	0.5−	1.2−	2000 04 07	704	0.2−	0.5−
1980 12 01	675	0.1−	0.7−	2000 03 05	608	0.1−	1.0−	2000 04 07	704	0.9+	0.0
1998 12 15	704	0.3+	0.7+	2000 04 02	699	0.2−	0.2+	2000 04 07	704	0.3+	0.9+
1998 12 15	704	0.6−	0.2+	2000 04 02	699	0.0	0.8+	2000 04 07	704	0.3+	0.5−
1998 12 15	704	0.6−	1.4+	2000 04 02	699	0.2−	0.4+	2000 04 07	704	0.8+	0.6+
1998 12 15	704	0.3−	1.0+	2000 04 02	699	0.5−	1.7+	2000 04 07	704	0.1−	0.5−
1998 12 15	704	0.5−	0.6+	2000 04 03	699	0.4−	0.0	2000 04 07	704	0.0	0.3+
1998 12 22	704	1.0+	1.1−	2000 04 03	699	0.4−	0.9+	2000 04 08	704	0.0	0.3−
1998 12 22	704	0.2+	0.5−	2000 04 03	699	0.1+	0.0	2000 04 08	704	0.3+	0.5−
1998 12 22	704	0.3−	0.4+	2000 04 03	699	0.7−	0.0	2000 04 08	704	0.0	0.7+
1998 12 22	704	1.1−	0.4−	2000 04 06	699	1.1−	0.4+	2000 04 08	704	(2.0−	0.6−)
1998 12 22	704	0.9−	0.2−	2000 04 06	704	0.4+	0.1+	2000 04 08	704	0.1−	0.9+
1999 01 07	704	1.5+	1.0+	2000 04 06	699	0.7−	0.9−	2000 04 08	704	0.4+	0.2+
1999 01 07	704	0.7+	0.6−	2000 04 06	704	0.4+	0.2+	2000 04 08	704	0.4+	0.4−
1999 01 07	704	1.1+	1.6−	2000 04 06	704	0.5+	0.5−	2000 04 08	704	0.0	1.1−
1999 01 07	704	(3.8−	0.3−)	2000 04 06	699	0.6−	0.2−	2000 04 08	704	0.2−	0.2−
2000 03 04	703	0.9−	0.9−	2000 04 06	704	0.6+	0.4−	2000 04 08	704	0.3+	0.5+
2000 03 04	703	0.4−	0.3−	2000 04 06	699	0.6−	0.6+	2000 04 10	704	0.7+	1.1+
2000 03 04	703	0.3−	0.4+	2000 04 06	704	0.2+	0.4−	2000 04 10	704	0.8+	0.5−
2000 03 04	703	0.1−	0.9+	2000 04 07	704	0.7−	0.2+	2000 04 10	704	0.3+	0.7−
2000 03 05	608	0.4−	1.2−	2000 04 07	704	0.2+	0.1−	2000 04 10	704	1.4+	0.0

Residuals in seconds of arc

1997 09 27	691	0.2+	0.1+	2000 03 05	608	0.3-	0.4-	2000 04 06	699	0.8-	0.2+
1997 09 27	691	0.2+	0.0	2000 03 05	608	0.2-	0.9-	2000 04 06	699	0.3-	0.3+
1997 09 27	691	0.2+	0.1+	2000 03 10	704	0.3-	0.4-	2000 04 06	699	0.2-	0.0
1997 10 05	691	0.0	0.2+	2000 03 10	704	0.0	0.3-	2000 04 07	704	0.2+	0.0
1997 10 05	691	0.2-	0.1-	2000 03 10	704	0.2+	0.1-	2000 04 07	704	0.0	0.0
1997 10 05	691	0.3-	0.4-	2000 03 10	704	1.2+	0.7+	2000 04 07	704	0.4+	0.4-
1999 01 19	704	0.3+	0.2-	2000 04 02	699	0.9+	0.1-	2000 04 07	704	0.1-	0.3-
1999 01 19	704	(2.9+ 1.5-)		2000 04 02	699	0.4+	0.3+	2000 04 07	704	0.6+	0.0
1999 01 19	704	0.3-	0.2+	2000 04 02	699	0.4+	0.4-	2000 04 08	704	0.9+	0.2-
1999 01 19	704	(4.5- 0.3-)		2000 04 02	699	0.0	0.0	2000 04 08	704	0.1-	0.3-
2000 03 04	703	0.7+	0.8+	2000 04 03	699	0.0	0.5+	2000 04 08	704	0.7-	0.6-
2000 03 04	703	1.5-	0.2+	2000 04 03	699	0.3-	0.0	2000 04 08	704	0.5-	0.3+
2000 03 04	703	0.4-	0.9+	2000 04 03	699	0.4-	0.0	2000 04 08	704	0.7+	0.6+
2000 03 04	703	0.4+	0.0	2000 04 03	699	0.1-	0.3+				
2000 03 05	608	0.1-	0.6-	2000 04 06	699	0.6-	0.1+				

2000 ER₁₄₇ = 1998 UU₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	67.53049		(2000.0)	P	Q
<i>n</i>	0.23394549	ω	237.20000	-0.16220616	-0.98622033
<i>a</i>	2.6085126	Ω	222.17348	+0.92076370	-0.13941981
<i>e</i>	0.1723873	<i>i</i>	2.77777	+0.35480045	-0.08905939
<i>P</i>	4.21	<i>H</i>	15.0	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1996 04 17	809(12.2- 8.3+)	2000 03 10	704	0.3-	0.2-	2000 04 07	704	0.2+	0.5-
1996 04 17	809(12.7- 7.9+)	2000 04 02	699	0.3-	0.3+	2000 04 07	704	0.0	0.2+
1996 04 17	809(12.2- 8.2+)	2000 04 02	699	0.7-	0.7+	2000 04 07	704	0.7+	1.0+
1998 10 19	699 0.1+ 0.3+	2000 04 02	699	0.4-	0.5-	2000 04 08	704	0.9-	0.8+
1998 10 19	699 0.4- 1.1+	2000 04 02	699	1.1-	0.3+	2000 04 08	704	0.4-	0.6-
1998 10 19	699 0.4- 0.2-	2000 04 05	704	0.2+	0.0	2000 04 08	704	0.1-	0.1-
1998 10 20	327 0.1+ 0.3-	2000 04 05	704	0.2+	0.1-	2000 04 08	704	0.5-	1.0+
1998 10 20	327 0.1+ 0.5-	2000 04 05	704	0.5+	0.1-	2000 04 08	704	0.1-	1.5-
1998 10 20	327 0.6+ 0.2-	2000 04 05	704	0.5+	0.1-	2000 04 10	691	0.7-	0.2-
2000 03 04	703 0.8- 0.4+	2000 04 05	704	0.7+	0.1+	2000 04 10	691	0.7+	0.1+
2000 03 04	703 0.6- 0.2+	2000 04 06	704	0.2+	0.4-	2000 04 10	691	0.8-	0.2+
2000 03 04	703 0.5+ 0.0	2000 04 06	704	0.5+	0.1+	2000 04 12	691	0.1+	0.3-
2000 03 04	703 0.6+ 0.1-	2000 04 06	704	0.1-	0.2-	2000 04 12	691	0.1-	0.2-
2000 03 10	704 0.0 0.4-	2000 04 06	704	0.4+	0.3+	2000 04 12	691	0.1+	0.2-
2000 03 10	704 0.1+ 0.2-	2000 04 06	704	0.9+	0.8+				
2000 03 10	704 0.4+ 0.4-	2000 04 07	704	0.2+	0.2-				

2000 EZ₁₄₇ = 1992 EL₁₀ = 1997 TO₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	293.93107		(2000.0)	P	Q
<i>n</i>	0.25527937	ω	97.84078	-0.02918100	+0.99954586
<i>a</i>	2.4610791	Ω	170.47733	-0.93407214	-0.02458945
<i>e</i>	0.1657871	<i>i</i>	2.60527	-0.35589003	-0.01741952
<i>P</i>	3.86	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1992 03 02	809 1.9- 0.9+	2000 03 09	704	0.6+	0.2-	2000 04 05	704	0.0	0.5+
1992 03 04	809 0.8+ 0.0	2000 03 09	704	0.1-	0.2-	2000 04 05	704	0.0	0.9+
1992 03 07	809 1.4+ 0.0	2000 03 09	704	0.5+	0.5-	2000 04 06	704	0.2-	0.1-
1997 10 08	691 0.0 0.2+	2000 03 09	704	0.0	0.3+	2000 04 06	704	0.1+	0.2-
1997 10 08	691 0.2- 0.9+	2000 04 01	691	0.1-	0.4-	2000 04 06	704	0.0	0.3-
1997 10 08	691 0.0 0.4+	2000 04 01	691	0.0	0.5-	2000 04 06	704	0.2+	0.2+
1997 10 09	691 0.3- 0.5+	2000 04 01	691	0.1-	0.6-	2000 04 06	704	0.1+	0.1+
1997 10 09	691 0.2- 0.7+	2000 04 02	699	0.0	0.3+	2000 04 10	704	0.1+	0.2+
1997 10 09	691 0.4- 0.4+	2000 04 02	699	0.3-	0.1+	2000 04 10	704	0.3+	0.5-
2000 03 04	703 0.1+ 0.4+	2000 04 02	699	0.2+	0.3+	2000 04 10	704	0.6-	0.3-
2000 03 04	703 0.1+ 0.4-	2000 04 02	699	0.7-	0.0	2000 04 10	704	0.5+	0.0
2000 03 04	703 0.6- 1.3+	2000 04 05	704	0.2-	0.3+	2000 04 10	704	0.3-	0.5-
2000 03 04	703 0.7+ 0.8+	2000 04 05	704	0.1+	0.7+				
2000 03 09	704 0.7+ 0.1-	2000 04 05	704	0.2-	0.5+				

2000 EF₁₄₈ = 1995 MY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	190.49693		(2000.0)	P	Q
<i>n</i>	0.17431110	ω	176.70863	+0.99955613	-0.02629928
<i>a</i>	3.1738473	Ω	184.86493	+0.02214496	+0.97015960
<i>e</i>	0.0802897	<i>i</i>	9.49913	+0.01992835	+0.24103671
<i>P</i>	5.65	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1995 06 25	691 0.1+ 0.0	2000 04 03	699	0.5+	0.4-	2000 04 06	704	0.1-	0.4+
1995 06 25	691 0.1+ 0.2-	2000 04 03	699	0.2-	0.1+	2000 04 06	699	0.1-	0.6+
1995 06 25	691 0.1- 0.0	2000 04 03	699	0.0	0.1-	2000 04 06	704	0.2+	0.5-
1995 07 05	691 0.3+ 0.5-	2000 04 03	699	0.7-	0.0	2000 04 07	704	0.5-	0.2+
1995 07 05	691 0.4- 0.3+	2000 04 05	704	0.8+	0.2+	2000 04 07	704	0.4+	0.5-
1995 07 05	691 0.1+ 0.3+	2000 04 05	704	0.6+	0.1+	2000 04 07	704	0.5-	0.2+
2000 03 04	703 0.6+ 0.9+	2000 04 05	704	0.5+	0.1-	2000 04 07	704	0.6+	1.5+
2000 03 04	703 0.4- 0.1+	2000 04 05	704	0.5+	0.2-	2000 04 10	704	0.4+	0.4+
2000 03 04	703 0.7- 0.2-	2000 04 05	704	0.5+	0.1+	2000 04 10	704	0.3+	0.6-
2000 03 04	703 0.2+ 0.3-	2000 04 06	699	0.6-	0.2+	2000 04 10	704	1.1-	0.1-
2000 03 09	704 0.5- 0.7-	2000 04 06	704	0.5+	0.1+	2000 04 10	704	0.3-	0.1-
2000 03 09	704 0.2- 0.2-	2000 04 06	704	0.5+	0.2+	2000 04 10	704	0.1-	0.2+
2000 03 09	704 0.1+ 0.1+	2000 04 06	699	0.7-	0.2+	2000 04 10	608	0.1+	0.6-
2000 03 09	704 0.2- 0.2-	2000 04 06	704	0.6+	0.3-	2000 04 10	608	0.1-	0.8-
2000 03 09	704 0.4- 0.0	2000 04 06	699	0.5-	0.7+	2000 04 10	608	0.1-	0.6-

2000 EJ₁₄₈ = 1993 RW₈ = 1998 XC₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	131.04268		(2000.0)	P	Q
<i>n</i>	0.22500655	ω	220.63727	+0.69553789	-0.71827898
<i>a</i>	2.6771494	Ω	185.37710	+0.69788009	+0.68114399
<i>e</i>	0.1588641	<i>i</i>	10.69358	+0.17085208	+0.14183854
<i>P</i>	4.38	<i>H</i>	13.8	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809 (3.7- 5.4-)	2000 03 04	703	0.4-	0.7-	2000 04 04	704	0.6-	0.2+
1993 09 14	809 (5.3- 7.3-)	2000 03 04	703	0.8+	0.1+	2000 04 04	704	0.2+	0.9-
1993 09 14	809 (4.6- 7.8-)	2000 03 04	703	0.2+	0.1+	2000 04 06	699	0.0	0.7-
1993 09 19	809 0.3- 0.5+	2000 03 09	704	0.9+	0.1+	2000 04 06	699	0.8+	0.1+
1993 09 19	809 0.2- 0.5+	2000 03 09	704	0.4+	0.7+	2000 04 06	699	0.5-	0.2-
1993 09 19	809 0.1+ 0.5+	2000 03 09	704	0.2+	0.7+	2000 04 06	699	0.4-	0.1+
1998 12 15	704 0.4+ 0.1-	2000 03 09	704	0.7+	0.3+	2000 04 08	704	0.1+	0.5-
1998 12 15	704 0.3+ 0.6+	2000 03 09	704	0.3+	0.6+	2000 04 08	704	0.2+	0.1-
1998 12 15	704 0.2+ 0.1-	2000 03 27	699	0.1-	0.1-	2000 04 08	704	0.3-	0.0
1998 12 15	704 0.8+ 0.0	2000 03 27	699	0.2-	0.4-	2000 04 08	704	0.2+	0.1-
1998 12 15	704 0.3+ 0.8+	2000 03 27	699	0.3-	0.1-	2000 04 08	704	0.1-	0.3-
1998 12 22	704 1.2- 1.5-	2000 03 27	699	0.1-	0.1+	2000 04 10	704	0.7-	0.3-
1998 12 22	704 0.5- 0.4-	2000 04 02	699	0.1-	0.0	2000 04 10	704	1.3-	0.4+
1998 12 22	704 0.1+ 0.1+	2000 04 02	699	0.2-	0.3-	2000 04 10	704	0.2+	0.5+
1998 12 22	704 0.7- 0.3+	2000 04 02	699	0.5-	0.1-	2000 04 10	704	0.3+	0.3+
1998 12 22	704 0.1+ 0.8+	2000 04 02	699	0.2+	0.1-	2000 04 10	704	0.2-	0.6+
2000 03 04	703 0.0 0.3+	2000 04 04	704	0.8+	1.8+				

2000 EK₁₄₈ = 1999 CY₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	228.21574		(2000.0)	P	Q
<i>n</i>	0.18003819	ω	304.91978	+0.84768382	+0.52680989
<i>a</i>	3.1061776	Ω	23.48005	-0.42106862	+0.73977793
<i>e</i>	0.0862549	<i>i</i>	9.02180	-0.32269701	+0.41856895
<i>P</i>	5.47	<i>H</i>	13.1	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1999 01 19	704	0.8+	1.5-	2000 03 09	704	0.4-	0.0	2000 04 06	699	0.3-	0.4-
1999 01 19	704	0.2-	0.1+	2000 03 09	704	0.1+	0.7+	2000 04 06	704	0.4-	0.2+
1999 01 19	704	0.1-	0.9+	2000 03 27	699	0.1+	0.0	2000 04 06	699	0.2+	0.2+
1999 01 19	704	1.0+	0.7+	2000 03 27	699	0.6+	0.3-	2000 04 06	704	0.1+	0.0

2000 APR. 18

1999 02 10	704	0.8−	0.3−	2000 03 27	699	0.1+	0.2+	2000 04 06	704	0.4−	0.3−
1999 02 10	704	0.2−	1.6−	2000 03 27	699	0.6+	0.2+	2000 04 06	699	0.0	0.3−
1999 02 10	704	1.2+	1.0+	2000 04 02	699	0.1−	0.4+	2000 04 06	704	0.5−	0.0
1999 02 10	704	0.2−	0.9−	2000 04 02	699	0.2−	0.1−	2000 04 07	704	0.6+	0.4+
1999 02 10	704	0.5−	0.6+	2000 04 02	699	0.6−	0.2−	2000 04 07	704	0.3+	0.3+
1999 02 13	704	1.0−	0.2−	2000 04 02	699	0.2+	0.2+	2000 04 07	704	0.3−	0.4+
1999 02 13	704	0.5−	0.4−	2000 04 05	704	0.0	0.0	2000 04 07	704	0.3+	0.1+
1999 02 13	704	0.1+	0.3+	2000 04 05	704	0.0	0.0	2000 04 07	704	0.3+	0.1+
1999 02 13	704	0.4+	0.1−	2000 04 05	704	0.2−	0.0	2000 04 10	704	0.5+	0.3+
1999 02 13	704	0.2+	1.3+	2000 04 05	704	0.1+	0.2+	2000 04 10	704	0.5−	0.2−
2000 03 04	703	0.6−	0.6+	2000 04 05	704	0.2−	0.1−	2000 04 10	704	0.0	0.3−
2000 03 04	703	0.1+	0.2+	2000 04 05	704	0.1+	0.4+	2000 04 10	704	0.5+	0.7−
2000 03 04	703	0.9−	0.6+	2000 04 05	704	0.4+	0.5+	2000 04 10	704	0.0	0.0
2000 03 04	703	0.2+	0.4−	2000 04 05	704	0.1−	0.2+	2000 04 11	691	0.2−	0.8−
2000 03 09	704	0.3+	1.2−	2000 04 05	704	0.2−	0.5+	2000 04 11	691	0.2−	0.5−
2000 03 09	704	0.1+	0.5−	2000 04 06	699	0.9+	0.1−	2000 04 11	691	0.2−	0.5−
2000 03 09	704	0.2−	0.4+	2000 04 06	704	0.1−	0.4−				

2000 EM₁₄₈ = 1976 GR₁ = 1987 SP₂₂ = 1987 SV₁₃ = 1998 XC₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	288.13286		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.28743531	ω	260.49283	+0.05897517	+0.99779562
a	2.2739241	Ω	13.00515	−0.85463131	+0.06621808
e	0.1567604	i	7.77080	−0.51587523	+0.00436757
P	3.43	H	13.4	G 0.15	U 2

Residuals in seconds of arc

1976 04 01	095	(6.1+	7.6−)	2000 01 10	699	0.3+	0.5+	2000 04 05	704	0.3+	0.4+
1976 04 04	095	(4.9+	8.3−)	2000 03 04	703	0.4+	0.2−	2000 04 05	704	0.0	0.6+
1987 09 20	095	0.3−	0.5+	2000 03 04	703	0.0	0.0	2000 04 05	704	0.2+	0.6+
1987 09 22	095	(2.2−	3.6+)	2000 03 04	703	0.1−	0.1−	2000 04 06	699	0.2−	0.1+
1998 11 16	704	0.2+	0.0	2000 03 04	703	0.1+	0.2−	2000 04 06	704	0.3+	0.3−
1998 11 16	704	0.9−	0.2−	2000 03 06	608	0.4−	0.3−	2000 04 06	699	0.5−	0.1+
1998 11 16	704	0.4−	0.0	2000 03 06	608	0.3−	0.2−	2000 04 06	704	0.4+	0.3+
1998 11 16	704	0.3+	0.4−	2000 03 06	608	0.4−	0.1−	2000 04 06	704	0.1+	0.2+
1998 11 16	704	0.3+	0.6+	2000 03 09	704	1.0+	0.1−	2000 04 06	699	0.5−	0.0
1998 12 14	704	0.3+	0.3+	2000 03 09	704	0.1+	0.2−	2000 04 06	704	0.0	0.5+
1998 12 14	704	1.0+	0.5+	2000 03 09	704	0.1+	0.4+	2000 04 06	699	0.5−	0.1+
1998 12 14	704	0.8+	0.0	2000 03 09	704	0.1+	0.6+	2000 04 06	704	(2.2+	0.8+)
1998 12 14	704	0.7+	0.2−	2000 03 09	704	0.9−	0.0	2000 04 07	704	0.4+	0.0
1998 12 14	704	0.6−	1.1+	2000 03 25	691	0.5−	0.4−	2000 04 07	704	0.3+	0.2+
1998 12 17	704	0.2−	0.3−	2000 03 25	691	0.5−	0.3−	2000 04 07	704	0.3+	0.4+
1998 12 17	704	1.5−	1.2+	2000 03 25	691	0.5−	0.4−	2000 04 07	704	0.3+	0.2+
1998 12 17	704	0.3−	0.3−	2000 03 27	699	0.3−	0.0	2000 04 07	704	0.4+	0.2+
1998 12 17	704	0.4+	0.0	2000 03 27	699	0.3−	0.1−	2000 04 08	704	0.0	0.1+
1998 12 17	704	0.6−	0.6+	2000 03 27	699	0.3−	0.2−	2000 04 08	704	0.1+	0.6−
1999 01 08	704	0.1−	0.0	2000 03 27	699	0.5−	0.3−	2000 04 08	704	0.1+	0.3+
1999 01 08	704	1.6+	1.4−	2000 04 02	699	0.3+	0.1−	2000 04 08	704	0.1−	0.1−
1999 01 08	704	0.8+	0.5−	2000 04 02	699	0.1+	0.1−	2000 04 08	704	0.2+	0.1+
1999 01 08	704	0.3−	0.5−	2000 04 02	699	0.0	0.1−	2000 04 10	704	0.6+	0.1+
1999 01 08	704	1.4−	1.0−	2000 04 02	699	0.1−	0.2−	2000 04 10	704	0.2+	0.4−
1999 11 16	703	0.6+	1.2+	2000 04 03	699	0.0	0.2−	2000 04 10	704	0.5+	0.0
1999 11 16	703	0.1−	0.5+	2000 04 03	699	0.1−	0.2−	2000 04 10	704	0.3+	0.1+
1999 11 16	703	0.6+	0.5+	2000 04 03	699	0.1−	0.1−	2000 04 10	704	0.2+	0.0
1999 11 16	703	0.2+	0.4−	2000 04 03	699	0.1−	0.2−	2000 04 10	608	0.3−	0.5−
2000 01 10	699	0.0	0.2+	2000 04 05	704	0.1+	0.2+	2000 04 10	608	0.2−	0.3−
2000 01 10	699	0.3−	0.3+	2000 04 05	704	0.1+	0.4+	2000 04 10	608	0.0	0.5−

2000 EN₁₄₈ = 1995 JX₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	347.42904		(2000.0)	P	Q
n	0.19023285	ω	23.62340	-0.90197319	+0.43178259
a	2.9941878	Ω	181.96428	-0.40825497	-0.85494141
e	0.2331271	i	4.77879	-0.14061381	-0.28746995
P	5.18	H	13.9	G	0.15
				U	3

M.P.C. 40209

Residuals in seconds of arc

1995 05 05	010	0.1−	1.6+	2000 03 09	704	0.6+	1.0+	2000 04 05	133	0.2+	0.9−
1995 05 05	010	0.1+	0.8+	2000 03 09	704	0.2−	1.2+	2000 04 05	133	0.2−	0.7−
1995 05 05	010	0.7−	0.8+	2000 03 27	691	0.4−	0.3−	2000 04 06	704	0.3+	0.1−
1995 05 08	010	1.0+	1.3−	2000 03 27	691	0.3−	0.3−	2000 04 06	704	0.1+	0.3+
1995 05 08	010	0.0	0.6−	2000 03 27	691	0.1+	0.1−	2000 04 06	704	0.3+	0.3+
1995 05 08	010	0.1−	0.3−	2000 03 30	120	1.0−	0.6−	2000 04 06	704	0.4+	0.3+
1998 12 16	704	1.1+	0.1+	2000 03 30	120	0.5−	0.6−	2000 04 06	704	0.3+	0.3+
1998 12 16	704	0.0	0.9−	2000 03 30	120	0.4−	0.8−	2000 04 07	704	0.2+	0.0
1998 12 16	704	1.4−	0.7−	2000 04 01	120	0.6+	0.9−	2000 04 07	704	0.1−	0.1+
1998 12 16	704	(3.2+	3.0+)	2000 04 02	120	0.8−	0.6−	2000 04 07	704	0.1−	0.1+
1998 12 16	704	0.3+	1.4+	2000 04 02	120	0.7−	1.1−	2000 04 07	704	0.4+	0.4+
2000 02 02	704	0.4−	0.4−	2000 04 02	699	0.2−	0.1+	2000 04 07	704	0.5+	0.3+
2000 02 02	704	0.0	0.5+	2000 04 02	699	0.4−	0.3+	2000 04 10	704	(0.5+	2.3+)
2000 02 02	704	0.2−	0.0	2000 04 02	699	0.4−	0.3+	2000 04 10	704	0.7+	0.8+
2000 03 04	703	0.0	0.6+	2000 04 02	699	0.4−	0.2+	2000 04 10	704	0.4+	0.6+
2000 03 04	703	0.1+	0.2−	2000 04 05	704	0.1+	0.0	2000 04 10	704	0.5+	0.5+
2000 03 04	703	0.1+	0.4+	2000 04 05	704	0.3+	0.1+	2000 04 10	704	0.6+	1.1+
2000 03 04	703	0.2+	0.6+	2000 04 05	704	0.3+	0.1+	2000 04 11	608	0.7−	1.1−
2000 03 09	704	0.9+	0.4−	2000 04 05	704	0.2+	0.1+	2000 04 11	608	0.8−	1.6−
2000 03 09	704	0.9+	0.2+	2000 04 05	704	0.2+	0.2+	2000 04 11	608	0.7−	1.4−
2000 03 09	704	0.1−	1.0+	2000 04 05	133	1.0−	0.1−				

2000 EO₁₄₈ = 1991 XG₄ = 1998 XP₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	248.29870		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29080324	ω	274.44028	+0.67463717	+0.73693683
a	2.2563331	Ω	38.09811	−0.64714552	+0.61805258
e	0.1541578	i	3.93053	−0.35505966	+0.27374278
P	3.39	H	14.0	G 0.15	U 1

Residuals in seconds of arc

1991 12 01	675	0.3−	0.0	1999 01 16	704	1.1+	1.7+	2000 04 03	699	0.5−	0.2−
1991 12 01	675	0.1−	0.6+	1999 01 16	704	1.8−	1.1−	2000 04 03	699	0.2−	0.3+
1992 01 29	691	0.4+	0.1−	1999 01 16	704	0.2+	0.5+	2000 04 05	704	0.3+	0.3+
1992 01 29	691	0.3−	0.1+	1999 01 16	704	(0.5−	2.2−)	2000 04 05	704	0.0	0.4+
1992 01 29	691	0.1+	0.8+	2000 03 04	703	0.4−	0.2+	2000 04 05	704	0.3+	0.3+
1994 09 06	691	0.4−	1.1+	2000 03 04	703	0.1+	0.7−	2000 04 05	704	0.2+	0.3+
1994 09 06	691	0.5−	0.9+	2000 03 04	703	0.2−	0.6−	2000 04 05	704	0.4+	0.6+
1994 09 06	691	0.5−	0.7+	2000 03 04	703	0.1+	0.5−	2000 04 06	704	0.1−	0.7+
1998 12 14	704	0.3+	1.5+	2000 03 09	704	0.9+	0.7+	2000 04 06	704	0.1+	0.5+
1998 12 14	704	0.9+	0.4+	2000 03 09	704	0.2−	0.5−	2000 04 06	704	0.4+	0.6+
1998 12 14	704	0.0	0.0	2000 03 09	704	0.0	0.2+	2000 04 06	704	1.0+	0.8+
1998 12 14	704	0.7−	1.0+	2000 03 09	704	0.3+	0.8+	2000 04 06	704	0.3−	2.0+
1998 12 14	704	1.3+	0.3+	2000 03 09	704	0.1−	1.5+	2000 04 08	704	0.1−	1.1−
1998 12 16	704	0.6+	0.6−	2000 03 27	699	0.6+	0.2−	2000 04 08	704	0.9−	1.0−
1998 12 16	704	1.7+	0.1−	2000 03 27	699	0.8+	0.4−	2000 04 08	704	0.0	0.1−
1998 12 16	704	1.4+	0.8−	2000 03 27	699	0.0	0.2−	2000 04 08	704	0.7−	0.2−
1998 12 16	704	1.6−	0.0	2000 03 27	699	0.3+	0.0	2000 04 08	704	0.6−	0.0
1998 12 16	704	1.1−	0.1−	2000 04 02	699	0.1−	0.0	2000 04 10	704	0.4+	0.4−
1998 12 17	704	0.3+	0.3−	2000 04 02	699	0.1−	0.0	2000 04 10	704	0.3+	0.4−
1998 12 17	704	0.7−	0.6−	2000 04 02	699	0.3+	1.9+	2000 04 10	704	0.2+	0.7−
1998 12 17	704	0.1−	0.8−	2000 04 02	699	0.3−	0.0	2000 04 10	704	0.3+	0.9−
1998 12 17	704	0.0	0.2−	2000 04 03	699	0.5−	0.1+	2000 04 10	704	0.1+	0.6−
1998 12 17	704	1.7−	0.3−	2000 04 03	699	0.5−	0.1−				

Residuals in seconds of arc

1986 03 12	809	0.1+	0.4-	2000 03 30	691	0.4-	0.5-	2000 04 06	704	0.9+	0.7+
1993 03 17	809	0.7-	1.3+	2000 04 02	699	0.1+	0.0	2000 04 06	699	0.5-	0.3-
1993 03 23	809	1.0+	1.5+	2000 04 02	699	0.5-	0.7-	2000 04 06	704	0.6+	1.0+
1993 03 23	691	0.2+	0.8-	2000 04 02	699	0.7-	0.3-	2000 04 07	704	0.7-	0.4-
1993 03 23	691	0.5-	0.8-	2000 04 02	699	0.3-	0.5-	2000 04 07	704	0.4+	0.1-
1993 03 23	691	0.6-	1.3-	2000 04 03	699	0.0	0.2-	2000 04 07	704	0.1-	0.5-
2000 03 04	703	1.0+	0.8-	2000 04 03	699	0.3-	0.1-	2000 04 07	704	0.4-	0.1+
2000 03 04	703	0.5+	0.8+	2000 04 03	699	0.2-	0.3-	2000 04 07	704	0.0	0.7-
2000 03 04	703	0.1-	0.5-	2000 04 03	699	0.2-	0.3-	2000 04 08	704	0.7-	0.2-
2000 03 04	703	1.3+	0.2+	2000 04 05	704	0.3+	0.1-	2000 04 08	704	0.2-	0.4+
2000 03 09	704	0.6+	0.8+	2000 04 05	704	0.5+	0.1+	2000 04 08	704	0.4-	0.0
2000 03 09	704	1.3-	0.3-	2000 04 05	704	0.2+	0.2+	2000 04 08	704	0.5+	0.4+
2000 03 09	704	0.3-	0.2+	2000 04 05	704	0.8+	0.3+	2000 04 08	704	0.2+	1.1+
2000 03 09	704	0.1+	1.6+	2000 04 05	704	0.2+	0.2+	2000 04 10	704	0.3-	0.9-
2000 03 09	704	0.3+	0.4+	2000 04 06	699	0.5-	0.2+	2000 04 10	704	0.7+	0.3+
2000 03 25	691	0.3-	0.3-	2000 04 06	704	0.4+	0.8+	2000 04 10	704	0.5+	0.1-
2000 03 25	691	0.4-	0.3-	2000 04 06	704	0.7+	0.4+	2000 04 10	704	0.1+	0.4-
2000 03 25	691	0.4-	0.4-	2000 04 06	699	0.7-	0.1+	2000 04 10	704	0.8+	0.0
2000 03 30	691	0.3-	0.5-	2000 04 06	704	0.5+	0.7+				
2000 03 30	691	0.3-	0.5-	2000 04 06	699	0.6-	0.1-				

2000 EU₁₄₈ = 1979 SQ₃ = 1990 SJ₂₈ = 1990 TB₁₆ = 1994 WZ₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P		Q	
<i>M</i>	250.42159		(2000.0)				
<i>n</i>	0.27191162	ω	301.12879	+0.76254178		+0.64682012	
<i>a</i>	2.3596678	Ω	18.57831	-0.57951495		+0.69146393	
<i>e</i>	0.2308341	<i>i</i>	2.23053	-0.28756296		+0.32171628	
<i>P</i>	3.62	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1979 09 24	095	0.4+	1.0-	2000 03 04	703	0.8-	0.2+	2000 04 06	699	0.5-	0.1+
1990 09 24	095	1.5-	0.0	2000 03 04	703	0.2-	0.7+	2000 04 06	704	0.7+	0.6-
1990 10 15	095	0.4-	1.7+	2000 03 04	703	0.9-	0.3+	2000 04 06	699	0.6-	0.1+
1990 10 15	095	(3.0-	2.4-)	2000 03 07	120	0.9+	0.2-	2000 04 06	704	0.4+	0.9-
1992 01 01	691	1.2-	0.6+	2000 03 07	120	0.5+	0.1+	2000 04 06	691	1.2-	0.6+
1992 01 01	691	0.2-	0.4-	2000 03 07	120	(2.0-	1.1-)	2000 04 06	691	1.1-	0.4-
1992 01 01	691	0.6-	0.2+	2000 03 09	704	0.7+	0.5+	2000 04 06	691	1.2-	0.4-
1992 02 01	691	0.4+	0.4-	2000 03 09	704	0.3+	0.3+	2000 04 07	704	0.6+	0.2+
1992 02 01	691	1.7+	1.6+	2000 03 09	704	0.6+	0.7-	2000 04 07	704	0.2+	0.3+
1992 02 01	691	1.0+	0.6-	2000 03 09	704	0.0	0.8+	2000 04 07	704	0.1-	0.3+
1994 11 27	010	1.4+	1.0-	2000 03 09	704	0.3-	0.0	2000 04 07	704	0.6+	0.1-
1994 11 27	010	2.0+	0.8-	2000 03 25	691	0.6-	0.2-	2000 04 07	704	0.8+	0.1-
1994 11 28	010	(2.3+	1.9-)	2000 03 25	691	0.6-	0.1-	2000 04 07	704	0.7+	0.5-
1994 11 28	010	(2.3+	0.5+)	2000 03 25	691	0.5-	0.2-	2000 04 07	704	0.6+	0.2-
1994 11 28	010	1.0+	0.4-	2000 04 05	704	0.3+	0.2+	2000 04 07	704	0.4+	0.2+
1994 11 29	010	(2.2+	0.1-)	2000 04 05	704	0.6+	0.6+	2000 04 07	704	0.3+	0.3-
1996 03 26	691	0.8-	0.3-	2000 04 05	704	0.5+	0.6+	2000 04 07	704	0.5+	0.1-
1996 03 26	691	(3.6-	0.4-)	2000 04 05	704	0.4+	0.6+	2000 04 08	704	0.2+	0.2-
1996 03 26	691	(2.7+	3.8-)	2000 04 05	704	1.2-	0.3+	2000 04 08	704	0.5+	0.3-
1999 01 10	699	0.9-	0.6+	2000 04 05	691	0.6-	0.3-	2000 04 08	704	0.8+	0.2-
1999 01 10	699	0.1-	0.2+	2000 04 05	691	0.6-	0.3-	2000 04 08	704	0.0	0.3-
1999 01 10	699	0.5-	0.1-	2000 04 05	691	0.5-	0.4-	2000 04 08	704	0.2+	0.4-
1999 01 19	704	0.9-	0.2-	2000 04 06	699	0.5-	0.8+	2000 04 10	704	0.4-	0.1-
1999 01 19	704	1.4-	1.7+	2000 04 06	704	0.1+	0.3-	2000 04 10	704	0.4+	0.4+
1999 01 19	704	1.2-	2.0-	2000 04 06	699	0.2-	0.2+	2000 04 10	704	0.8+	0.1-
1999 01 19	704	0.4+	1.1+	2000 04 06	704	0.3+	0.6-	2000 04 10	704	0.1+	0.2-
2000 03 04	703	0.1-	0.5+	2000 04 06	704	0.3+	0.5-	2000 04 10	704	0.8-	0.0

2000 EW₁₄₈ = 1990 TU₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P		Q	
<i>M</i>	13.37610		(2000.0)				
<i>n</i>	0.24620209	ω	172.67712	-0.98731420		-0.15877248	
<i>a</i>	2.5212054	Ω	358.18544	+0.14333487		-0.88744069	
<i>e</i>	0.1012479	<i>i</i>	2.54273	+0.06830658		-0.43271275	
<i>P</i>	4.00	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 10 14	033	1.3-	1.1-	2000 03 09	704	0.8+	0.1-	2000 04 07	704	0.5+	0.4+
1990 10 15	033	0.2-	0.4+	2000 03 09	704	0.4+	0.2-	2000 04 07	704	0.3+	0.0
1990 10 15	033	0.1+	0.1-	2000 03 09	704	0.2+	0.8+	2000 04 07	704	0.3+	0.2-
1990 10 18	033	0.4+	0.9-	2000 04 05	704	0.2+	0.1+	2000 04 07	704	0.4+	0.1+
1990 10 18	033	1.2+	0.9+	2000 04 05	704	0.3+	0.5+	2000 04 07	704	0.2+	0.0
1996 03 21	566	0.4-	1.5+	2000 04 05	704	0.2+	0.7+	2000 04 08	704	0.1-	0.3-
1996 03 21	566	0.5-	1.1-	2000 04 05	704	0.3+	0.7+	2000 04 08	704	0.0	1.0-
1996 03 21	566	0.3-	0.6-	2000 04 05	704	0.4+	1.1+	2000 04 08	704	0.1+	0.5-
1996 04 21	566	0.1-	1.1-	2000 04 06	704	0.3-	0.4+	2000 04 08	704	0.2-	1.0-
1996 04 21	566	0.2+	0.8-	2000 04 06	704	0.2-	0.1+	2000 04 08	704	0.5+	0.8-
1996 04 21	566	0.4-	1.1-	2000 04 06	704	0.1+	0.2+	2000 04 10	704	0.5+	0.1+
2000 02 02	704	0.9+	0.8-	2000 04 06	704	0.2-	1.1+	2000 04 10	704	0.3-	0.2-
2000 02 02	704	0.1+	0.0	2000 04 06	704	0.2+	0.0	2000 04 10	704	0.2+	0.5+
2000 02 02	704	0.6-	0.7+	2000 04 06	704	0.2-	0.3+	2000 04 10	704	0.0	0.6+
2000 03 04	703	0.2-	0.0	2000 04 06	704	0.2-	0.2+	2000 04 10	704	0.2+	0.2-
2000 03 04	703	0.4-	0.3-	2000 04 06	704	0.3-	0.5+	2000 04 12	608	0.6-	0.5-
2000 03 04	703	0.1-	0.2+	2000 04 06	704	0.0	0.1+	2000 04 12	608	1.1-	0.1+
2000 03 04	703	0.1-	0.0	2000 04 06	704	0.3-	0.3-	2000 04 12	608	0.6-	0.5-

2000 EZ₁₄₉ = 1999 BX₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
				P		Q	
<i>M</i>	162.84294		(2000.0)				
<i>n</i>	0.23067744	ω	270.58097	+0.93715968		-0.25675338	
<i>a</i>	2.6330916	Ω	104.31411	+0.32597059		+0.88573900	
<i>e</i>	0.1927221	<i>i</i>	14.11148	-0.12439821		+0.38670936	
<i>P</i>	4.27	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.1+	0.7+	1998 12 22	704	0.4+	0.0	2000 03 11	703	0.1-	0.8-
1998 12 15	704	0.4+	0.0	1998 12 22	704	1.5-	0.7+	2000 03 11	703	0.2-	0.5-
1998 12 15	704	0.4-	1.0+	1998 12 22	704	0.2-	0.4+	2000 03 11	703	0.8-	0.4-
1998 12 15	704	0.5+	0.6+	1998 12 22	704	0.7-	0.1-	2000 03 29	704	0.4-	0.0
1998 12 15	704	0.8-	1.0-	1999 01 16	704	0.4-	0.3-	2000 03 29	704	0.5+	0.0
1998 12 17	704	0.5+	0.7+	1999 01 16	704	0.4-	0.5-	2000 03 29	704	0.4+	0.7-
1998 12 17	704	0.6+	0.6+	1999 01 16	704	0.3-	0.4-	2000 03 29	704	0.0	0.4+
1998 12 17	704	0.7+	0.6-	1999 01 16	704	1.0-	0.4+	2000 03 29	704	0.2+	0.9+
1998 12 17	704	0.6+	0.5+	1999 01 19	704	1.3+	0.0	2000 04 04	704	0.2-	0.5-
1998 12 17	704	0.9+	0.6+	1999 01 19	704	0.7+	0.8+	2000 04 04	704	0.4-	0.7+
1998 12 17	704	0.0	0.0	1999 01 19	704	1.2+	1.0+	2000 04 04	704	0.1+	0.3+
1998 12 17	704	0.1+	0.7-	1999 01 19	704	1.8-	1.0-	2000 04 08	704	0.4+	0.1+
1998 12 17	704	1.3-	1.0-	2000 03 05	704	0.3+	0.6+	2000 04 08	704	0.0	0.3+
1998 12 17	704	0.6-	2.0-	2000 03 05	704	0.0	0.0	2000 04 08	704	0.3+	0.0
1998 12 17	704	(6.9-	0.7-)	2000 03 05	704	0.1-	0.1-	2000 04 08	704	0.1+	0.2-
1998 12 22	704	1.4+	0.5-	2000 03 11	703	0.8-	0.1+	2000 04 08	704	0.5+	0.0

2000 APR. 18

1998 12 15	704	0.8−	0.9+	2000 02 27	703	0.2+	0.6+	2000 03 11	704	0.2+	0.4+
1998 12 15	704	0.1+	0.0	2000 02 27	703	0.2+	0.3+	2000 03 11	704	0.0	0.2+
1998 12 15	704	0.9−	0.5+	2000 02 27	703	0.2+	0.9+	2000 03 11	704	0.2+	0.6−
1998 12 16	704	1.2+	0.3−	2000 02 27	703	1.2−	0.4+	2000 03 11	704	0.5−	0.3+
1998 12 16	704	0.0	0.1+	2000 03 03	704	0.6+	0.3+	2000 04 05	704	0.0	1.4+
1998 12 16	704	0.8−	0.2−	2000 03 03	704	0.3+	0.1−	2000 04 05	704	0.3+	0.7−
1998 12 16	704	1.2+	1.5−	2000 03 03	704	0.3+	0.4−	2000 04 05	704	0.2−	0.7−
1998 12 22	704	0.1−	0.7+	2000 03 05	608	0.4+	0.1+	2000 04 05	704	0.6−	0.3−
1998 12 22	704	0.6+	0.5−	2000 03 05	608	0.3+	0.5−				

2000 ET₁₅₀ = 1992 SY₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	162.09267	(2000.0)	
<i>n</i>	0.19548815	ω	210.21793
<i>a</i>	2.9402827	Ω	155.79055
<i>e</i>	0.1124280	<i>i</i>	2.36552
<i>P</i>	5.04	<i>H</i>	13.8
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	1

1992 09 22	809	0.7+	1.9−	1998 12 15	704	0.3−	1.0+	2000 03 11	704	0.4+	0.4−
1992 09 22	809	(0.1+	3.3−)	1998 12 15	704	(1.4+	2.6+)	2000 03 11	699	0.6−	0.2+
1992 09 22	809	(0.7+	2.8−)	1998 12 15	704	(5.4−	1.5+)	2000 03 11	704	0.4+	0.1+
1992 09 23	809	(0.9+	3.0−)	2000 03 03	704	0.0	0.3+	2000 03 11	699	0.3−	0.6+
1992 09 23	809	(0.2−	2.7−)	2000 03 03	704	0.5+	0.0	2000 03 11	704	0.1−	0.1+
1992 09 23	809	(0.0	3.0−)	2000 03 03	704	0.0	0.2+	2000 03 11	699	0.2+	0.6+
1997 08 12	691	0.2−	0.9+	2000 03 03	704	0.1+	0.4+	2000 04 05	704	0.6−	0.7−
1997 08 12	691	(2.0−	4.1+)	2000 03 03	704	0.3+	0.6+	2000 04 05	704	0.9+	0.1−
1997 08 12	691	0.0	0.7+	2000 03 05	608	0.1−	0.9−	2000 04 05	704	0.4+	0.4+
1997 09 29	691	0.5−	0.8+	2000 03 05	608	0.1+	0.9−	2000 04 05	704	0.1+	0.2+
1997 09 29	691	0.4−	1.0+	2000 03 05	608	0.4+	1.2−	2000 04 05	704	0.3+	0.5+
1997 09 29	691	0.4−	0.7+	2000 03 11	704	0.3+	0.3+	2000 04 06	704	0.6−	0.3+
1998 12 15	704	(3.2+	0.1+)	2000 03 11	699	0.5−	0.2+	2000 04 06	704	0.6−	0.4+
1998 12 15	704	0.3+	0.5−	2000 03 11	704	0.1+	0.3+	2000 04 06	704	0.1−	0.9+

2000 EZ₁₅₀ = 1998 SG₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	67.11261	(2000.0)	
<i>n</i>	0.26673681	ω	207.36188
<i>a</i>	2.3900890	Ω	245.61931
<i>e</i>	0.1406583	<i>i</i>	1.71685
<i>P</i>	3.70	<i>H</i>	15.1
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1998 09 26	704	(2.5+	1.3+)	2000 03 09	704	0.1−	0.5+	2000 04 07	704	0.1−	0.4+
1998 09 26	704	1.5−	1.1+	2000 03 26	699	0.1−	0.8−	2000 04 07	704	0.0	0.4−
1998 09 26	704	0.3+	0.2+	2000 03 26	699	1.4+	0.3−	2000 04 08	704	0.1+	0.3+
1998 09 26	704	0.5−	0.3−	2000 03 26	699	0.5−	0.1+	2000 04 08	704	0.0	0.8+
1998 09 27	704	1.0+	1.0+	2000 03 26	699	0.4+	0.3−	2000 04 08	704	1.5−	0.0
1998 09 27	704	0.1+	0.9−	2000 04 05	704	0.1−	0.1+	2000 04 08	704	1.2−	0.4−
1998 09 27	704	1.1+	0.2+	2000 04 05	704	0.1−	0.0	2000 04 08	704	0.2+	1.2−
1998 09 27	704	1.1−	0.7−	2000 04 05	704	0.2−	0.1+	2000 04 08	704	0.1+	1.0+
1998 09 27	704	0.3+	0.7−	2000 04 05	704	0.4−	0.1+	2000 04 08	704	0.1+	0.3−
1998 10 14	422	0.3−	0.1−	2000 04 05	704	0.4−	0.3+	2000 04 08	704	0.9+	0.4−
1998 10 14	422	0.8+	0.1−	2000 04 06	704	0.5−	0.2+	2000 04 08	704	0.2+	0.8+
2000 03 05	608	0.2−	0.4−	2000 04 06	704	0.1−	0.3−	2000 04 08	704	0.5−	0.4+
2000 03 05	608	0.2−	0.7+	2000 04 06	704	0.2−	0.2+	2000 04 08	704	1.8+	1.7−
2000 03 05	608	0.5−	0.3−	2000 04 06	704	0.4−	0.5−	2000 04 08	704	0.9+	0.7−
2000 03 09	704	0.7+	0.2+	2000 04 07	704	0.4−	0.3+	2000 04 08	704	0.1+	0.6+
2000 03 09	704	0.2+	0.1−	2000 04 07	704	0.2+	0.4+				

M.P.C. 40211

2000 EB₁₅₁ = 1996 RC₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	300.38774	(2000.0)	
<i>n</i>	0.18528403	ω	196.41311
<i>a</i>	3.0472685	Ω	67.37353
<i>e</i>	0.1658672	<i>i</i>	2.40053
<i>P</i>	5.32	<i>H</i>	14.1
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1996 09 08	566	0.0	0.4+	2000 03 08	704	0.5+	0.1−	2000 04 06	699	0.3−	0.2−
1996 09 08	566	0.3−	0.2+	2000 03 08	704	0.3+	1.2+	2000 04 06	704	0.2+	0.5−
1996 09 08	566	0.2+	0.2+	2000 03 08	704	0.0	0.1−	2000 04 06	699	0.5−	0.1+
1996 09 14	566	0.3+	0.7−	2000 03 08	704	1.0−	1.2−	2000 04 06	704	0.4−	0.7−
1996 09 14	566	0.0	0.2−	2000 03 29	704	0.4−	0.2−	2000 04 06	704	0.1−	0.1+
1996 09 14	566	0.0	0.5−	2000 03 29	704	0.2−	0.1−	2000 04 06	699	0.3−	0.3−
2000 03 01	703	0.9−	0.9−	2000 03 29	704	0.2+	0.0	2000 04 06	704	0.2+	0.0
2000 03 01	703	0.8−	0.7−	2000 03 29	704	0.2+	0.6+	2000 04 06	699	0.2−	0.0
2000 03 01	703	0.3+	0.1+	2000 03 29	704	0.3+	0.7+	2000 04 06	704	0.1−	0.1+
2000 03 01	703	0.2−	0.5+	2000 04 04	704	1.0+	0.0	2000 04 10	704	0.2−	1.0−
2000 03 05	608	0.1+	0.3+	2000 04 04	704	0.6−	0.4+	2000 04 10	704	0.2−	0.1−
2000 03 05	608	0.1+	0.5−	2000 04 04	704	0.6+	0.7−	2000 04 10	704	0.2−	1.5+
2000 03 05	608	0.2−	0.2−	2000 04 04	704	1.3+	1.1−	2000 04 10	704	0.5−	0.6+
2000 03 08	704	0.0	0.7+	2000 04 04	704	1.3+	0.6−	2000 04 10	704	0.4+	1.7+

2000 EC₁₅₁ = 1997 LH₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	310.20707	(2000.0)	
<i>n</i>	0.30486964	ω	95.47035
<i>a</i>	2.1863848	Ω	143.13831
<i>e</i>	0.0841300	<i>i</i>	2.83803
<i>P</i>	3.23	<i>H</i>	15.6
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	4

1997 06 08	809	0.6+	1.5+	2000 03 08	704	0.0	0.1−	2000 04 04	704	0.5+	1.4−
1997 06 08	809	0.2+	0.6+	2000 03 08	704	0.3−	0.0	2000 04 06	699	0.3−	0.5+
1997 06 08	809	0.6+	0.0	2000 03 27	699	0.3+	0.1+	2000 04 06	699	0.4−	0.5+
1997 06 09	809	0.5−	1.5−	2000 03 27	699	0.3−	0.3+	2000 04 06	699	0.5−	0.1+
1997 06 09	809	0.5−	1.4−	2000 03 27	699	0.1+	0.4−	2000 04 06	699	0.4−	0.2+
1997 06 09	809	0.7−	1.2−	2000 03 27	699	1.2+	0.1+	2000 04 06	608	0.0	1.3−
1997 06 24	910	0.2+	0.8+	2000 03 29	704	0.0	0.1−	2000 04 06	608	0.1−	1.5−
1997 06 24	910	0.1+	0.7+	2000 03 29	704	0.1+	0.3+	2000 04 06	608	0.5−	1.2−
1997 06 24	910	0.1+	0.8+	2000 03 29	704	0.1−	0.1−	2000 04 08	704	0.1−	0.4+
2000 03 01	703	0.9+	0.3+	2000 03 29	704	0.6−	0.1−	2000 04 08	704	0.8+	0.2+
2000 03 01	703	0.5+	0.4−	2000 03 29	704	0.4+	0.0	2000 04 08	704	0.6+	0.4+
2000 03 01	703	0.9−	0.7+	2000 04 02	699	0.1+	0.2+	2000 04 08	704	0.8+	1.7+
2000 03 01	703	0.4−	0.1+	2000 04 02	699	0.3−	0.1+	2000 04 08	704	0.0	1.3+
2000 03 05	608	0.4−	0.9+	2000 04 02	699	0.4−	0.6−	2000 04 10	704	0.2−	0.3+
2000 03 05	608	0.5−	0.3−	2000 04 02	699	0.1−	0.1−	2000 04 10	704	0.2−	0.2−
2000 03 05	608	0.5−	0.2+	2000 04 04	704	0.3−	0.4+	2000 04 10	704	0.4−	0.1+
2000 03 08	704	0.4+	0.1+	2000 04 04	704	0.0	0.5−	2000 04 10	704	0.5−	0.1−
2000 03 08	704	1.0+	0.6−	2000 04 04	704	1.0+	0.4−	2000 04 10	704	0.5−	0.1+
2000 03 08	704	0.4−	0.4+	2000 04 04	704	1.2+	0.3−				

2000 ED₁₅₁ = 1993 FA₁₁ = 1994 RC₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	352.04663	(2000.0)	
<i>n</i>	0.28316635	ω	27.70589
<i>a</i>	2.2967213	Ω	162.56755
<i>e</i>	0.1355439	<i>i</i>	9.06136
<i>P</i>	3.48	<i>H</i>	14.2
Residuals in seconds of arc			
<i>G</i>	0.15	<i>U</i>	3

1993 03 17	809	0.9−	1.2−	2000 03 01	703	0.2−	0.3+	2000 03 29	704	0.1+	0.5+
1993 03 18	809	0.3−	0.3+	2000 03 01	703	0.2−	0.1−	2000 03 29	704	0.0	0.6+
1993 03 23	809	0.8+	0.7−	2000 03 01	703	0.4−	0.1+	2000 03 29	704	0.1−	0.4+

1994 09 05	809	1.4+	0.9+	2000 03 05	608	1.1-	1.2-	2000 04 05	704	0.1-	0.1+
1994 09 05	809	0.8+	0.2-	2000 03 05	608	1.1-	1.2-	2000 04 05	704	0.2-	0.0
1994 09 05	809	(2.4-	0.6-)	2000 03 05	608	0.8-	1.3-	2000 04 05	704	0.2+	0.1+
1994 09 06	809	1.0-	1.2-	2000 03 08	704	0.1+	0.0	2000 04 05	704	0.1+	0.2-
1994 09 06	809	0.1-	1.0-	2000 03 08	704	0.1-	0.4+	2000 04 05	704	0.6+	0.2-
1994 09 06	809	0.8-	0.1-	2000 03 08	704	0.0	0.2-	2000 04 13	704	0.3+	0.1+
2000 02 08	704	0.5+	0.2-	2000 03 08	704	0.0	0.5+	2000 04 13	704	0.5+	0.1+
2000 02 08	704	0.6+	0.3-	2000 03 08	704	0.2-	1.4+	2000 04 13	704	0.2+	0.2-
2000 02 08	704	1.0+	0.3-	2000 03 29	704	0.1+	0.1-	2000 04 13	704	0.1+	0.1+
2000 03 01	703	0.2+	0.5+	2000 03 29	704	0.3+	0.0	2000 04 13	704	0.0	0.4+

2000 EF₁₅₁ = 1981 QQ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	187.02590		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.19073127	ω	205.34449	+0.99503181	-0.07305741
a	2.9889692	Ω	158.51811	+0.08696560	+0.96851820
e	0.1190393	i	10.64288	-0.04846316	+0.23798131
P	5.17	H	12.4	G 0.15	U 1

Residuals in seconds of arc

1981 08 24	046	0.9+	0.6-	2000 03 01	703	0.5-	0.3-	2000 04 02	699	0.2-	0.2+
1981 08 24	046	0.0	1.3-	2000 03 01	703	0.1+	0.6-	2000 04 03	699	0.4-	0.0
1981 08 28	046	0.7-	1.8-	2000 03 01	703	0.1-	0.3+	2000 04 03	699	0.1+	0.3-
1981 08 28	046	(3.9-	0.4-)	2000 03 05	608	0.5-	1.8-	2000 04 03	699	0.3-	0.2-
1981 09 02	704	1.2+	0.3+	2000 03 05	608	(0.5-	2.5-)	2000 04 03	699	0.7-	0.1-
1981 09 02	704	0.3-	0.7-	2000 03 05	608	0.8-	1.8-	2000 04 04	704	0.5+	0.5+
1981 09 03	704	(3.5-	1.8+)	2000 03 08	704	0.1-	0.2+	2000 04 04	704	0.4-	0.5+
1994 02 10	691	0.7-	0.9-	2000 03 08	704	0.2-	0.3-	2000 04 04	704	0.5+	0.1+
1994 02 10	691	0.4-	1.1-	2000 03 08	704	0.6+	0.6+	2000 04 04	704	0.1+	0.3-
1994 02 10	691	0.6-	1.3-	2000 03 08	704	0.5-	0.1+	2000 04 04	704	0.6+	0.3+
1997 10 21	327	0.1+	0.5-	2000 03 08	704	0.2-	0.2+	2000 04 08	704	0.2-	0.5-
1997 10 21	327	0.1+	0.4-	2000 03 29	704	0.1-	0.2-	2000 04 08	704	0.2+	0.3-
1997 10 21	327	0.3-	0.6-	2000 03 29	704	0.1+	0.3+	2000 04 08	704	0.1+	0.3+
1998 12 23	704	(2.6+	0.8-)	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.0	0.2+
1998 12 23	704	0.7+	0.1+	2000 03 29	704	0.0	0.4+	2000 04 08	704	0.1-	0.2+
1998 12 23	704	0.8+	0.4-	2000 03 29	704	0.5-	0.1-	2000 04 13	704	0.1+	1.5-
1998 12 23	704	0.0	0.9+	2000 04 02	699	0.0	0.4+	2000 04 13	704	0.5+	0.2+
1998 12 23	704	(5.3-	2.3-)	2000 04 02	699	0.1+	0.6+	2000 04 13	704	(2.8+	0.0)
2000 03 01	703	0.4+	0.5-	2000 04 02	699	0.1-	0.2-	2000 04 13	704	0.9+	0.1-

2000 ER₁₅₃ = 1993 TP₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	49.24969		(2000.0)	P	Q
n	0.21673569	ω	282.27415	-0.49099293	-0.87088628
a	2.7448320	Ω	197.18434	+0.82540330	-0.45698527
e	0.0415262	i	4.26605	+0.27863118	-0.18089098
P	4.55	H	15.1	G 0.15	U 4

Residuals in seconds of arc

1993 09 19	691	0.2+	0.1-	1996 05 21	691	0.2+	0.2+	2000 04 03	691	0.1+	0.0
1993 09 19	691	0.5-	0.3-	1996 05 21	691	0.1+	0.3+	2000 04 03	691	0.2+	0.1-
1993 09 19	691	0.2-	0.3-	2000 03 06	608	0.2-	0.3-	2000 04 03	691	0.1+	0.1-
1993 10 09	809	0.1-	0.9+	2000 03 06	608	0.6-	0.4-	2000 04 05	704	0.1+	0.9-
1993 10 09	809	0.3-	0.7-	2000 03 06	608	0.5-	0.2-	2000 04 05	704	0.8+	0.9+
1993 10 09	809	1.8-	0.2-	2000 03 11	704	0.2-	0.1-	2000 04 05	704	0.2-	0.6+
1993 10 12	809	1.4+	0.8+	2000 03 11	704	0.4+	0.4-	2000 04 05	704	0.3-	1.1+
1993 10 12	809	0.7+	0.6+	2000 03 11	704	0.6+	0.5+	2000 04 07	691	0.0	0.6-
1993 10 12	809	0.1+	0.5+	2000 03 11	704	0.2+	1.1+	2000 04 07	691	0.1-	0.7-
1996 05 21	691	0.2-	0.3+	2000 03 11	704	0.0	0.8+	2000 04 07	691	0.2-	0.5-

2000 EX₁₅₃ = 1993 UP₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	283.53360		(2000.0)	P	Q
n	0.23011073	ω	148.38106	-0.06526889	+0.99209129
a	2.6374129	Ω	117.68053	-0.93891990	-0.02467622
e	0.1545521	i	6.95388	-0.33788962	-0.12306890
P	4.28	H	14.1	G 0.15	U 3

Residuals in seconds of arc

1993 10 10	809	1.6+	0.1+	2000 02 11	704	1.2+	0.1+	2000 03 28	704	0.1-	0.1-
1993 10 10	809	0.0	1.0+	2000 02 11	704	0.3+	0.7+	2000 03 28	704	0.4-	0.4+
1993 10 10	809	0.3+	1.1-	2000 03 06	608	0.1+	0.3-	2000 03 28	704	0.7+	0.1-
1993 10 20	809	0.2-	0.6+	2000 03 06	608	0.2+	0.3-	2000 04 03	704	1.0-	0.2+
1993 10 20	809	0.3-	0.6+	2000 03 06	608	0.0	0.5-	2000 04 03	704	0.1-	0.2+
1993 10 20	809	0.1-	0.2+	2000 03 12	703	0.4-	0.3-	2000 04 03	704	0.4+	0.9+
1993 10 21	809	0.7-	0.6+	2000 03 12	703	0.2+	0.1+	2000 04 03	704	0.0	0.8+
1993 10 21	809	0.7-	0.1+	2000 03 12	703	0.2-	0.2+	2000 04 03	704	1.9-	1.9+
1993 10 21	809	0.5-	0.4-	2000 03 12	703	0.0	0.0	2000 04 07	608	0.5+	1.2-
1995 01 08	691	0.1+	0.7-	2000 03 12	704	0.6-	0.7+	2000 04 07	608	0.5+	1.6-
1995 01 08	691	0.0	0.5-	2000 03 12	704	0.5-	0.1+	2000 04 07	608	0.8+	1.1-
1995 01 08	691	0.1-	0.4-	2000 03 12	704	0.3-	0.7+	2000 04 08	704	0.1-	0.4+
2000 02 11	704	0.3+	0.3+	2000 03 12	704	0.5-	0.4+	2000 04 08	704	0.3-	0.1-
2000 02 11	704	1.0+	0.0	2000 03 12	704	0.9-	0.1-	2000 04 08	704	0.2+	0.6+
2000 02 11	704	1.7+	0.3-	2000 03 28	704	0.2+	0.9-	2000 04 08	704	(0.2+	2.4+)

2000 EA₁₅₄ = 1985 UN₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	215.80818		(2000.0)	P	Q
n	0.23913247	ω	285.72352	+0.83517440	+0.54161179
a	2.5706543	Ω	41.61074	-0.43319504	+0.75491133
e	0.1845918	i	8.27762	-0.33885954	+0.36981829
P	4.12	H	13.6	G 0.15	U 1

Residuals in seconds of arc

1985 10 18	095	1.7+	0.2+	2000 03 06	608	0.1-	0.3-	2000 04 07	704	0.1+	0.3-
1985 10 20	049	0.7-	1.0-	2000 03 12	703	0.3-	0.1+	2000 04 07	704	0.3+	0.8+
1985 10 20	049	0.8-	0.2+	2000 03 12	703	0.1+	0.3+	2000 04 07	704	0.1+	0.3-
1996 04 13	691	0.1-	0.3-	2000 03 12	703	0.3+	0.4+	2000 04 07	704	0.2+	0.2+
1996 04 13	691	0.5-	1.6-	2000 03 12	703	0.5+	0.1-	2000 04 08	704	0.6-	0.2+
1996 04 13	691	0.3+	0.2-	2000 03 12	704	0.7+	0.0	2000 04 08	704	0.5+	0.1-
1997 09 02	566	0.2-	0.5+	2000 03 12	704	0.4+	0.4+	2000 04 08	704	0.7-	0.6-
1997 09 02	566	0.2-	0.7+	2000 03 12	704	0.4-	0.4+	2000 04 08	704	0.8-	0.2-
1997 09 02	566	0.1-	0.7+	2000 03 12	704	0.1-	0.6+	2000 04 08	704	0.3+	0.4+
1999 01 16	704	1.5+	0.2+	2000 03 12	704	0.1-	0.2+	2000 04 08	704	0.3-	0.3-
1999 01 16	704	0.0	0.0	2000 03 28	704	0.2+	0.6+	2000 04 08	704	0.0	0.9+
1999 01 16	704	0.0	0.2-	2000 03 28	704	0.1-	0.8-	2000 04 08	704	0.3-	0.0
1999 01 16	704	1.1-	1.2+	2000 03 28	704	0.4-	0.1-	2000 04 08	704	0.3+	0.3-
2000 02 11	704	1.0-	0.1-	2000 04 04	704	0.8-	0.7+	2000 04 11	608	0.8+	0.3-
2000 02 11	704	0.9-	0.6+	2000 04 04	704	0.7-	0.2-	2000 04 11	608	0.7+	0.1+
2000 02 11	704	0.2+	1.1+	2000 04 04	704	0.5+	0.1+	2000 04 11	608	0.7+	0.1+
2000 03 06	608	0.0	0.5-	2000 04 04	704	1.2+	0.1-				
2000 03 06	608	0.0	0.2-	2000 04 07	704	0.3-	0.3+				

2000 EH₁₅₄ = 1992 HH₄ = 1996 GC₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	330.25158		(2000.0)		P		Q
n	0.24134102	ω	182.27000		-0.82276739		+0.55664237
a	2.5549474	Ω	32.41692		-0.51804158		-0.65124045
e	0.2200304	i	12.37704		-0.23385197		-0.51578595
P	4.08	H	15.8	G	0.15	U	3

Residuals in seconds of arc

1992 04 24	691	1.2+	1.2+	2000 03 05	704	0.3-	0.5+	2000 04 03	704	0.4+	0.0
1992 04 24	691	1.0+	0.9+	2000 03 05	704	1.3-	0.5+	2000 04 03	704	0.6+	0.0
1992 04 24	691	1.2+	1.0+	2000 03 05	704	0.6-	0.1-	2000 04 03	704	1.3+	1.0-

2000 APR. 18

M.P.C. 40213

1992 04 25	809	1.0−	0.5−	2000 03 05	704	0.2−	0.0	2000 04 03	704	0.1+	1.2+
1992 04 25	809	0.8−	1.2−	2000 03 05	704	0.1+	0.1−	2000 04 08	704	0.1+	0.4+
1992 04 25	809	1.1−	0.8−	2000 03 06	608	0.0	0.9−	2000 04 08	704	0.7+	0.9+
1996 04 09	691	0.3−	0.5−	2000 03 06	608	0.0	1.1−	2000 04 08	704	0.0	0.4+
1996 04 09	691	0.1+	0.5−	2000 03 06	608	0.7−	0.7−	2000 04 08	704	0.4−	0.5−
1996 04 09	691	0.2−	0.3−	2000 03 12	704	0.1+	1.3+	2000 04 08	704	0.5+	0.7+
1996 04 15	691	0.7−	0.4−	2000 03 12	704	0.1−	0.2+	2000 04 11	608	0.7+	1.0−
1996 04 15	691	0.8−	0.2−	2000 03 12	704	0.2+	0.5−	2000 04 11	608	0.0	0.5−
1996 04 15	691	0.2−	0.2−	2000 03 12	704	0.2−	1.3+	2000 04 11	608	0.5+	0.9+

2000 ES₁₅₄ = 1998 VT₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	42.69815		(2000.0)	P	Q
n	0.28420646	ω	56.27380	−0.73073331	−0.67142310
a	2.2911143	Ω	81.21648	+0.57774656	−0.70451209
e	0.0419474	i	7.17110	+0.36364507	−0.22989941
P	3.47	H	14.6	G 0.15	U 2

Residuals in seconds of arc

1993 03 23	010	0.3+	0.4+	1998 11 16	566	1.3−	0.5−	2000 03 06	608	0.2−	0.4−
1993 03 23	010	1.2−	0.1+	1998 11 16	566	1.3−	0.5−	2000 03 11	699	0.2+	0.2−
1993 03 23	010	0.9+	0.6−	1998 11 19	699	0.4+	0.9+	2000 03 11	699	0.2+	0.2+
1998 10 12	699	0.2+	0.4−	1998 11 19	699	0.4+	1.0+	2000 03 11	699	0.1+	0.0
1998 10 12	699	(0.6+	2.3+)	1998 11 19	699	0.7+	0.2−	2000 03 11	699	0.1+	0.5+
1998 10 12	699	0.3+	0.3+	1998 12 08	704	1.0+	0.9−	2000 03 29	704	0.5−	0.7+
1998 11 10	704	0.2+	1.3+	1998 12 08	704	(2.7+	1.6+)	2000 03 29	704	0.2+	0.4+
1998 11 10	704	(2.0+	0.1+)	1998 12 08	704	1.0−	0.2−	2000 03 29	704	0.5+	0.2+
1998 11 10	704	0.2−	0.3+	1998 12 08	704	(4.8−	1.3−)	2000 03 29	704	0.1+	0.4+
1998 11 10	704	0.1−	0.7+	2000 01 08	704	0.3+	0.3−	2000 03 29	704	0.2+	0.8+
1998 11 10	704	0.8+	0.2−	2000 01 08	704	0.0	1.7−	2000 04 05	704	0.1+	0.2+
1998 11 11	704	0.8−	0.9+	2000 01 08	704	0.2−	1.2−	2000 04 05	704	0.0	0.4+
1998 11 11	704	0.2−	0.6+	2000 02 06	704	0.4−	0.3+	2000 04 05	704	0.3−	0.7+
1998 11 11	704	0.4+	0.2−	2000 02 06	704	0.4−	0.3−	2000 04 05	704	0.1−	0.3+
1998 11 11	704	0.0	0.2−	2000 02 06	704	1.1+	0.0	2000 04 05	704	0.4+	0.5+
1998 11 11	704	0.9+	0.5−	2000 03 06	608	0.1−	0.8−				
1998 11 16	566	1.3−	0.4−	2000 03 06	608	0.2−	0.4−				

2000 EX₁₅₄ = 1996 KF₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	48.19439		(2000.0)	P	Q		
n	0.23240837	ω	77.57873	−0.66075685	−0.71605923		
a	2.6200015	Ω	56.13965	+0.53912549	−0.66139206		
e	0.0529296	i	15.72657	+0.52224906	−0.22320332		
P	4.24	H	14.3	G	0.15	U	4

Residuals in seconds of arc

1996 05 22	809	0.4−	0.5−	2000 03 07	704	0.1−	0.1+	2000 04 08	704	0.6+	0.4−
1996 05 22	809	0.6−	1.8−	2000 03 12	699	0.1−	0.1+	2000 04 08	704	0.2−	1.1−
1996 05 22	809	0.3−	0.7−	2000 03 12	699	0.8−	0.2+	2000 04 13	704	0.2−	1.0+
1996 05 23	809	1.1+	0.8+	2000 03 12	699	0.1+	0.1+	2000 04 13	704	0.5−	0.4+
1996 05 23	809	0.7−	0.6+	2000 03 12	699	0.7−	0.3+	2000 04 13	704	0.3−	0.1−
1996 05 23	809	0.8+	1.7+	2000 04 08	704	0.5+	0.2−	2000 04 13	704	0.7+	0.9+
2000 03 07	704	0.5+	0.1−	2000 04 08	704	0.4−	0.1−				
2000 03 07	704	0.5+	0.3+	2000 04 08	704	0.3+	1.3−				

2000 EG₁₅₆ = 1994 RN₂₂ = 1999 CX₁₅₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	294.96379		(2000.0)	P	Q		
n	0.29364743	ω	349.05036	−0.24805526	+0.96558435		
a	2.2417400	Ω	266.55271	−0.88278279	−0.25855021		
e	0.1329903	i	4.49334	−0.39895254	−0.02826051		
P	3.36	H	13.9	G	0.15	U	3

Residuals in seconds of arc

1994 09 03	033	0.1−	0.0	1999 02 16	691	0.2+	0.1−	2000 03 12	699	0.1−	0.2−
1994 09 04	033	0.2−	0.2+	1999 02 16	691	0.2+	0.5−	2000 03 12	699	0.2−	0.2−
1994 09 09	033	0.3+	0.1−	2000 01 10	704	(2.6+	1.4−)	2000 03 13	704	0.2+	0.0
1994 09 09	033	(3.1−	0.1+)	2000 01 10	704	1.3+	1.6+	2000 03 13	704	0.2−	0.1+
1998 11 11	704	0.6−	0.0	2000 01 10	704	0.8−	0.4−	2000 03 13	704	0.1−	0.1+
1998 11 11	704	0.6−	0.8+	2000 01 10	704	0.0	0.3−	2000 03 13	704	0.1−	0.1+
1998 11 11	704	1.2+	0.9+	2000 01 10	704	0.1−	0.5−	2000 03 13	704	0.5−	0.3−
1998 11 11	704	(6.2−	1.3+)	2000 01 11	699	0.1+	0.4+	2000 03 31	704	0.1−	0.1−
1998 11 21	704	1.6+	1.2+	2000 01 11	699	0.0	0.8+	2000 03 31	704	0.1+	0.3+
1998 11 21	704	1.5−	1.7−	2000 01 11	699	0.3+	0.3+	2000 03 31	704	0.3+	0.3+
1998 11 21	704	(1.4−	3.2−)	2000 03 03	703	0.0	0.0	2000 04 07	704	1.6−	0.0
1998 11 21	704	(5.2−	0.9−)	2000 03 03	703	0.2−	0.2+	2000 04 07	704	1.5−	0.7+
1999 02 11	691	0.1−	0.5+	2000 03 03	703	0.3+	0.1−	2000 04 07	704	0.2+	1.1−
1999 02 11	691	0.7−	0.9−	2000 03 03	703	0.2+	0.1−	2000 04 07	704	0.4+	0.6+
1999 02 11	691	0.1−	0.6−	2000 03 09	704	0.2+	0.1+	2000 04 12	608	0.7+	0.3−
1999 02 16	691	0.1−	0.4−	2000 03 09	704	0.2+	0.0	2000 04 12	608	0.9+	0.3−
1999 02 16	691	0.2+	0.4−	2000 03 09	704	(2.5−	1.8+)	2000 04 12	608	0.7+	0.5−
1999 02 16	691	0.5+	0.5+	2000 03 12	699	0.4−	0.2−				
1999 02 16	691	0.2+	0.5−	2000 03 12	699	0.1−	0.1+				

2000 EC₁₅₇ = 1997 MN₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	64.58407		(2000.0)	P	Q
n	0.23057893	ω	335.24590	−0.34781983	−0.92126600
a	2.6338415	Ω	134.55685	+0.89574454	−0.38135162
e	0.1087104	i	14.13749	+0.27688101	+0.07641929
P	4.27	H	15.0	G 0.15	U 5

Residuals in seconds of arc

1997 06 30	691	0.2+	0.1−	2000 03 11	703	0.1+	0.5+	2000 03 29	704	0.1−	0.0
1997 06 30	691	0.2−	0.1−	2000 03 11	703	0.4+	0.2−	2000 03 29	704	0.3+	0.7−
1997 06 30	691	0.1+	0.1+	2000 03 12	699	0.4+	0.6+	2000 03 29	704	0.1+	0.3−
1997 07 06	691	0.1+	0.3−	2000 03 12	699	0.5−	0.1+	2000 04 03	704	0.2−	0.1+
1997 07 06	691	0.4−	0.1−	2000 03 12	699	0.1+	0.1−	2000 04 03	704	0.5−	0.1+
1997 07 06	691	0.1+	0.4+	2000 03 12	699	0.6−	0.3+	2000 04 03	704	0.2+	0.1+
2000 03 11	703	0.1+	1.0−	2000 03 29	704	0.5−	0.1+	2000 04 03	704	0.1+	0.4+
2000 03 11	703	0.2+	0.0	2000 03 29	704	0.7+	0.4−	2000 04 03	704	0.4−	0.5+

2000 ED₁₅₇ = 1999 BR₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	210.92435		(2000.0)	P	Q
n	0.22435925	ω	254.25823	+0.95080602	+0.20955450
a	2.6822961	Ω	93.22521	−0.11266330	+0.91996716
e	0.1858965	i	13.20979	−0.28857390	+0.33128135
P	4.39	H	13.5	G 0.15	U 4

Residuals in seconds of arc

1998 12 21	704	0.7−	0.3−	2000 03 11	703	0.4−	0.2+	2000 04 02	704	0.1+	0.2+
1998 12 21	704	1.7−	0.1−	2000 03 11	703	0.0	0.1−	2000 04 03	704	0.4−	0.1+
1998 12 21	704	1.7+	0.0	2000 03 12	699	0.2−	0.0	2000 04 03	704	0.2−	0.4−
1998 12 21	704	0.9+	0.1−	2000 03 12	699	0.4−	0.6−	2000 04 03	704	1.1+	0.1+
1998 12 21	704	0.7−	0.0	2000 03 12	699	0.0	0.6−	2000 04 03	704	0.7+	0.9+
1999 01 16	120	1.0−	0.8+	2000 03 12	699	1.1+	0.6+	2000 04 03	704	0.4+	0.2+
1999 01 16	120	0.3−	0.7+	2000 03 29	704	0.3+	0.5−	2000 04 04	704	0.1−	0.2−
1999 01 16	120	1.0−	0.4−	2000 03 29	704	0.1+	0.2+	2000 04 04	704	0.3−	0.2+
1999 01 19	120	0.1+	0.1−	2000 03 29	704	1.0−	0.7+	2000 04 04	704	0.1−	0.1−
1999 01 19	120	0.1−	0.4−	2000 03 29	704	0.3−	0.4+	2000 04 04	704	0.5−	0.3−
1999 01 20	120	1.7+	0.6−	2000 03 29	704	0.5−	0.6−	2000 04 08	704	0.2−	0.3+
1999 01 20	120	1.0+	0.4+	2000 04 02	704	0.2−	0.1+	2000 04 08	704	0.3+	0.1−
2000 03 11	703	0.6+	0.7−	2000 04 02	704	0.4−	0.8+	2000 04 08	704	0.5+	0.9−
2000 03 11	703	0.2+	0.3−	2000 04 02	704	0.4−	0.3+	2000 04 08	704	(2.2+	0.1+)

2000 EH₁₅₇ = 1998 XN₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	75.79894		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.17379030	ω	347.30237	-0.10819648	-0.96275629		
<i>a</i>	3.1801849	Ω	108.49185	+0.93341647	-0.18414970		
<i>e</i>	0.1468273	<i>i</i>	15.14528	+0.34209242	+0.19796265		
<i>P</i>	5.67	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.9+	0.8+	2000 03 11	703	0.8-	0.1+	2000 04 03	704	0.1-	0.4+
1998 12 15	704	0.0	0.5+	2000 03 11	703	0.2+	0.4-	2000 04 03	704	1.3+	1.1+
1998 12 15	704	0.4-	0.0	2000 03 12	699	0.3-	0.6+	2000 04 03	704	0.4+	0.7+
1998 12 15	704	0.5+	0.3-	2000 03 12	699	0.9+	0.1+	2000 04 03	704	0.1+	0.6+
1998 12 15	704	1.3+	0.7-	2000 03 12	699	0.5-	1.6+	2000 04 03	704	0.0	0.7+
1998 12 22	704	0.4-	0.2+	2000 03 12	699	0.1+	0.8+	2000 04 08	704	1.1+	0.0
1998 12 22	704	1.4-	0.2+	2000 03 29	704	0.2-	0.5-	2000 04 08	704	0.0	0.8-
1998 12 22	704	0.6-	0.2-	2000 03 29	704	0.2+	0.1+	2000 04 08	704	0.3-	0.6+
1998 12 22	704	0.1+	0.6-	2000 03 29	704	0.5-	1.0-	2000 04 08	704	1.1-	1.1-
2000 03 11	703	0.2+	0.7-	2000 03 29	704	0.1-	0.5-				
2000 03 11	703	0.1-	0.6-	2000 03 29	704	0.6-	1.7-				

2000 EK₁₅₇ = 1998 VV₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.63207		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22624940	ω	77.94508	-0.92837851	-0.28434009		
<i>a</i>	2.6673362	Ω	85.17120	+0.17083404	-0.89835778		
<i>e</i>	0.2052947	<i>i</i>	13.89548	+0.33004405	-0.33481938		
<i>P</i>	4.36	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 11	557	0.2-	0.0	2000 03 12	699	0.2+	0.2-	2000 04 08	704	0.7-	0.1+
1998 11 12	557	0.1+	0.3+	2000 03 12	699	0.1+	0.1-	2000 04 08	704	0.8+	0.3-
1998 11 12	557	0.1-	0.1-	2000 03 12	699	0.6+	0.2-	2000 04 08	704	1.1-	0.3-
1998 11 12	557	0.3+	0.2-	2000 03 12	699	0.7+	0.1-	2000 04 08	704	0.5-	0.3-
2000 03 11	703	0.8-	0.7+	2000 04 03	704	0.0	0.4-	2000 04 08	704	0.0	0.1-
2000 03 11	703	0.5-	0.3+	2000 04 03	704	0.3+	0.1+	2000 04 10	608	0.3+	0.1+
2000 03 11	703	0.3+	0.0	2000 04 03	704	0.3+	0.2+	2000 04 10	608	0.2+	0.1+
2000 03 11	703	0.6-	0.5-	2000 04 03	704	0.0	0.7+	2000 04 10	608	0.3+	0.2+

2000 EU₁₅₇ = 1996 JR

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	315.84508		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22800267	ω	359.48799	-0.63544395	+0.76847028		
<i>a</i>	2.6536447	Ω	231.05667	-0.70808661	-0.61882228		
<i>e</i>	0.1085493	<i>i</i>	5.55303	-0.30793561	-0.16282632		
<i>P</i>	4.32	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 13	566	0.5-	0.1+	2000 03 12	699	0.6-	0.0	2000 04 07	704	0.5+	1.0+
1996 05 13	566	0.0	0.1-	2000 03 12	699	0.1-	0.1+	2000 04 07	699	0.7+	0.1+
1996 05 13	566	0.5+	0.3-	2000 03 12	699	0.4-	0.3+	2000 04 08	704	0.1-	0.1+
1996 05 14	566	0.2+	0.2+	2000 03 13	704	0.8-	1.1-	2000 04 08	704	0.6-	0.0
1996 05 14	566	0.0	0.4+	2000 03 13	704	0.2-	0.6-	2000 04 08	704	0.2-	0.8+
1996 05 14	566	0.3-	0.2-	2000 03 13	704	0.3+	0.6-	2000 04 08	704	0.0	0.2+
1996 06 15	566	0.2+	0.2+	2000 03 13	704	0.3-	0.5-	2000 04 08	704	0.4-	0.6+
1996 06 15	566	0.3-	0.3-	2000 03 13	704	0.3-	0.8-	2000 04 10	704	0.0	0.5-
1996 06 15	566	0.1+	0.6-	2000 04 07	704	0.4+	0.2+	2000 04 10	704	0.3+	0.5+
1998 12 15	704	0.2-	0.2-	2000 04 07	699	0.1-	1.0-	2000 04 10	704	0.8+	0.3+
1998 12 15	704	0.9-	0.0	2000 04 07	704	0.9+	0.2-	2000 04 12	608	0.0	0.6-
1998 12 15	704	0.6+	0.1+	2000 04 07	704	0.5+	0.8+	2000 04 12	608	0.3-	0.6-
1998 12 15	704	0.2-	0.3+	2000 04 07	699	0.3+	0.2+	2000 04 12	608	0.3-	0.5-
1998 12 15	704	0.8+	0.3-	2000 04 07	704	0.2+	0.8+				
2000 03 12	699	0.2-	0.7+	2000 04 07	699	0.2+	0.1-				

2000 EL₁₆₃ = 1993 RG₁₇ = 1998 XZ₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	152.87529		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.22207883	ω	21.01077	+0.98138130	-0.19198813		
<i>a</i>	2.7006270	Ω	350.05313	+0.17127924	+0.88796125		
<i>e</i>	0.1014890	<i>i</i>	1.85589	+0.08691466	+0.41792987		
<i>P</i>	4.44	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 15	809	1.2+	1.6-	1998 12 17	704	(0.0	2.0+)	2000 03 11	704	0.3+	0.0
1993 09 15	809	(0.6-	2.4-)	1998 12 17	704	0.7-	0.2+	2000 03 11	699	0.2-	0.8+
1993 09 15	809	(1.9-	2.8-)	2000 03 03	704	0.3+	0.5-	2000 03 11	704	0.3-	1.4-
1993 09 22	809	1.3-	1.2+	2000 03 03	704	0.1+	0.2+	2000 03 11	699	0.7-	1.5+
1993 09 22	809	0.1+	0.6+	2000 03 03	704	0.3+	0.0	2000 04 05	704	0.1-	0.0
1993 09 22	809	0.5-	0.7+	2000 03 03	704	0.4+	1.0-	2000 04 05	704	0.5+	0.0
1998 12 14	704	(0.4+	2.2-)	2000 03 03	704	0.2+	0.4-	2000 04 05	704	0.5+	0.5-
1998 12 14	704	0.9+	1.5-	2000 03 11	704	0.2-	0.1+	2000 04 05	704	0.2+	0.2-
1998 12 14	704	0.9+	0.8-	2000 03 11	699	0.4-	1.1+	2000 04 06	704	0.8-	0.7+
1998 12 17	704	1.2+	1.7+	2000 03 11	704	0.1+	0.4-	2000 04 06	704	0.1+	0.1-
1998 12 17	704	0.6-	0.2+	2000 03 11	704	0.3-	0.1-	2000 04 06	704	0.1+	0.1-
1998 12 17	704	1.6-	0.1-	2000 03 11	699	0.3+	1.4+				

2000 EX₁₆₃ = 1993 TH₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	158.10443		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21764429	ω	358.26679	+0.99563144	-0.09272261		
<i>a</i>	2.7371874	Ω	7.08164	+0.08670144	+0.87446276		
<i>e</i>	0.1743717	<i>i</i>	5.10937	+0.03465383	+0.47614851		
<i>P</i>	4.53	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1993 10 10	675	1.7-	0.7+	1998 12 14	704	0.2-	1.9+	2000 03 11	704	0.6+	0.2-
1993 10 10	675	0.2-	1.1-	1998 12 14	704	0.6+	0.3-	2000 03 11	699	0.1-	0.1+
1993 10 12	809	0.5-	1.8+	1999 01 16	704	0.0	0.9-	2000 03 11	704	0.8+	0.0
1993 10 12	809	0.5-	1.8+	1999 01 16	704	0.8+	0.7-	2000 03 11	699	0.2-	0.6-
1993 10 12	809	1.0-	2.0+	1999 01 16	704	0.8-	0.1+	2000 03 11	704	0.4+	0.0
1993 10 13	675	0.4+	0.5-	1999 01 16	704	0.4-	0.7-	2000 03 11	699	0.5-	0.0
1993 10 13	675	0.3+	0.4-	1999 01 16	704	0.1+	1.5-	2000 04 05	704	0.2+	0.5+
1993 10 22	809	(3.0+	1.4-)	2000 03 03	704	0.3+	0.1-	2000 04 05	704	0.2+	0.4+
1993 10 22	809	1.6+	1.1-	2000 03 03	704	0.3+	0.3-	2000 04 05	704	0.2-	0.2+
1993 10 22	809	(2.4-	0.2+)	2000 03 03	704	0.7+	0.2-	2000 04 05	704	0.4+	0.5+
1997 08 03	566	0.3-	0.0	2000 03 03	704	0.9-	1.0+	2000 04 05	704	0.2+	0.2+
1997 08 03	566	0.0	0.1+	2000 03 03	704	0.2+	0.7-	2000 04 06	704	0.4+	0.0
1997 08 03	566	0.3+	0.2+	2000 03 11	704	0.2-	0.7+	2000 04 06	704	0.3-	0.3+
1998 12 14	704	0.0	0.2+	2000 03 11	699	0.2-	0.3+	2000 04 06	704	0.2-	0.4+
1998 12 14	704	(0.9+	2.4+)	2000 03 11	704	0.3+	1.0+	2000 04 06	704	0.1+	0.7+

2000 EK₁₆₄ = 1996 GA₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	163.32713		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21721992	ω	180.64539	+0.99874848	-0.04986952		
<i>a</i>	2.7407512	Ω	182.22385	+0.04631595	+0.95093472		
<i>e</i>	0.1442156	<i>i</i>	5.63074	+0.01887585	+0.30534601		
<i>P</i>	4.54	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 13	608	1.3-	0.5+	2000 02 27	703	0.8+	0.6+	2000 03 25	691	0.2-	0.2+
1996 04 13	608	1.3-	0.6+	2000 02 27	703	0.0	0.1+	2000 03 25	691	0.1-	0.1-
1996 04 14	608	0.4+	1.1-	2000 02 27	703	0.1-	0.0	2000 03 25	691	0.2-	0.3+
1996 04 14	608	1.1+	0.5-	2000 03 03	704	0.1+	0.4+	2000 04 05	704	0.8+	1.1+
1996 04 17	608	0.5+	0.1-	2000 03 03	704	0.3-	0.5+	2000 04 05	704	0.4+	0.2-
1996 04 17	608	0.1+	0.9+	2000 03 03	704	0.3+	0.0	2000 04 05	704	0.1-	0.1-
1996 04 17	608	0.5+	0.2-	2000 03 03	704	0.1-	0.3-	2000 04 05	704	1.2+	0.8-
1998 12 15	704	1.0-	0.7+	2000 03 03	704	0.5-	0.1-	2000 04 06	704	0.4-	0.3+
1998 12 15	704	0.8+	0.5-	2000 03 11	704	0.1-	0.5-	2000 04 06	704	0.2-	0.0

2000 APR. 18

M.P.C. 40215

1998 12 15	704	0.3−	0.6−	2000 03 11	704	0.0	0.1−	2000 04 06	704	0.0	0.0
1998 12 15	704	0.4+	0.1+	2000 03 11	704	0.9−	0.1−	2000 04 07	704	0.8−	0.1−
1998 12 15	704	0.1+	0.6+	2000 03 11	704	0.6−	0.3−	2000 04 07	704	0.2+	0.2−
2000 02 27	703	0.4+	0.6−	2000 03 11	704	0.4−	0.6−	2000 04 07	704	0.9+	0.3+

2000 EP₁₆₄ = 1998 SC₁₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i>	128.44302		(2000.0)	P		Q					
<i>n</i>	0.26863313	<i>ω</i>	206.98927	+0.84460779		−0.53527472					
<i>a</i>	2.3788278	<i>Ω</i>	185.41143	+0.50969839		+0.81014486					
<i>e</i>	0.1111502	<i>i</i>	6.63307	+0.16384517		+0.23905290					
<i>P</i>	3.67	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1998 09 18	809	0.3+	1.5+	1999 02 14	651	0.5−	1.3−	2000 04 04	704	0.1+	0.1−
1998 09 18	809	0.7−	0.1+	1999 02 14	651	0.1+	0.7−	2000 04 04	704	0.9+	1.2+
1998 09 18	809	1.7−	0.0	1999 02 14	651	(6.4−	2.2+)	2000 04 04	704	0.3+	0.8+
1998 09 20	809	(1.2−	2.1+)	2000 03 03	704	0.3−	0.1+	2000 04 05	704	0.4+	0.2+
1998 09 20	809	1.4−	0.4+	2000 03 03	704	0.5+	0.0	2000 04 05	704	0.0	0.8+
1998 09 20	809	1.5−	0.8+	2000 03 03	704	0.1−	0.5−	2000 04 05	704	0.4−	0.1−
1998 10 11	699	1.1+	1.7+	2000 03 03	704	0.2+	0.4+	2000 04 05	704	0.0	0.6+
1998 10 11	699	1.4+	0.3+	2000 03 03	704	0.0	0.1+	2000 04 05	704	0.5−	0.2+
1998 10 11	699	1.6+	0.9+	2000 03 11	704	0.4+	0.6−	2000 04 06	704	0.4+	0.3+
1998 11 11	704	(2.1+	0.4−)	2000 03 11	704	0.2−	0.2+	2000 04 06	704	0.3−	0.8−
1998 11 11	704	0.6−	0.6−	2000 03 11	704	0.3−	0.1+	2000 04 06	704	0.3−	0.1+
1998 11 11	704	0.4+	0.1−	2000 03 11	704	0.1+	0.0	2000 04 06	704	0.5−	0.7+
1998 11 11	704	0.1+	1.2−	2000 03 11	704	0.4+	0.3+				

2000 ED₁₆₅ = 1998 TU₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i>	78.70419		(2000.0)	P		Q					
<i>n</i>	0.24480854	<i>ω</i>	42.21860	+0.27283200		−0.96191360					
<i>a</i>	2.5307642	<i>Ω</i>	31.95931	+0.87393165		+0.24046508					
<i>e</i>	0.1410225	<i>i</i>	1.82743	+0.40225138		+0.12999525					
<i>P</i>	4.03	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1998 10 13	691	0.2−	0.3+	2000 03 11	699	0.3+	0.3−	2000 03 11	699	0.5−	0.9−
1998 10 13	691	0.1−	0.3+	2000 03 11	704	0.3+	0.4−	2000 03 11	699	0.1+	1.3+
1998 10 13	691	0.0	0.3+	2000 03 11	699	1.3+	0.4−	2000 04 05	704	0.3+	0.2+
1998 10 17	691	0.1−	0.0	2000 03 11	704	0.3−	0.0	2000 04 05	704	0.4+	0.7−
1998 10 17	691	0.3+	0.3−	2000 03 11	699	0.2−	0.2−	2000 04 05	704	0.1−	0.4−
1998 10 17	691	0.1+	0.5−	2000 03 11	704	0.2+	0.1−	2000 04 06	704	0.4+	0.2+
2000 03 03	704	0.2+	1.0+	2000 03 11	699	0.4+	1.5+	2000 04 06	704	0.5−	1.2+
2000 03 03	704	0.1+	0.4−	2000 03 11	704	0.0	0.9−	2000 04 06	704	0.4+	0.8−
2000 03 03	704	0.1−	0.5−	2000 03 11	699	0.1+	0.6−	2000 04 06	704	1.2−	0.5+
2000 03 03	704	1.0−	0.9+	2000 03 11	699	0.2−	0.2+				
2000 03 03	704	0.3−	0.1+	2000 03 11	704	0.3−	0.4−				

2000 ES₁₆₅ = 1993 TV₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i>	199.07313		(2000.0)	P		Q					
<i>n</i>	0.22375347	<i>ω</i>	174.34534	+0.90789512		+0.41884468					
<i>a</i>	2.6871353	<i>Ω</i>	160.86466	−0.38663255		+0.85251096					
<i>e</i>	0.0796091	<i>i</i>	3.00649	−0.16199300		+0.31272065					
<i>P</i>	4.40	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1993 10 09	809	0.2+	0.9−	2000 03 03	704	1.2+	0.7−	2000 03 11	699	0.0	1.0+
1993 10 09	809	0.2−	0.3−	2000 03 11	704	0.1−	0.3−	2000 04 05	704	0.3+	0.3+
1993 10 09	809	0.1+	0.5−	2000 03 11	699	1.1+	0.8+	2000 04 05	704	0.6−	0.1−
1993 10 11	809	0.7+	0.8+	2000 03 11	704	0.7−	0.0	2000 04 05	704	0.1−	0.0
1993 10 11	809	0.1+	0.6+	2000 03 11	704	0.5−	0.2−	2000 04 05	704	0.1−	0.5−
1993 10 11	809	0.8−	0.3+	2000 03 11	699	0.7−	0.1+	2000 04 06	704	0.7+	0.2−
2000 03 03	704	(2.6+	0.6+)	2000 03 11	704	0.6−	0.1−	2000 04 06	704	0.3−	0.6+

2000 03 03	704	0.8+	0.6+	2000 03 11	699	0.4+	0.5−	2000 04 06	704	0.2+	0.2−
2000 03 03	704	0.3−	0.5−	2000 03 11	704	0.8−	0.1−				

2000 ET₁₆₅ = 1977 RB₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i>	247.07180		(2000.0)	P		Q					
<i>n</i>	0.19796266	<i>ω</i>	272.39614	+0.32373359		+0.94609274					
<i>a</i>	2.9157292	<i>Ω</i>	16.50393	−0.85310239		+0.29656530					
<i>e</i>	0.0413671	<i>i</i>	2.06796	−0.40916118		+0.13022113					
<i>P</i>	4.98	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1977 09 09	675	0.9−	0.5−	2000 03 11	704	1.7−	0.4−	2000 04 05	704	0.8+	0.1+
1977 09 10	675	0.3+	1.9+	2000 03 11	699	1.3+	0.5−	2000 04 06	704	0.8+	1.7+
1999 01 16	704	1.2−	1.2−	2000 03 11	704	0.9−	0.8−	2000 04 06	704	0.1−	0.3+
1999 01 16	704	0.0	1.8+	2000 03 11	699	0.2−	0.5+	2000 04 06	704	1.0+	0.6+
1999 01 16	704	0.3−	0.0	2000 03 11	704	1.3−	0.8−	2000 04 06	704	0.1+	0.3−
1999 01 16	704	1.5+	0.1−	2000 03 11	699	0.3+	0.2−	2000 04 06	691	0.2−	0.4−
2000 03 03	704	0.6+	0.3−	2000 04 05	704	0.7−	1.8+	2000 04 06	704	0.2−	0.1+
2000 03 03	704	1.0+	0.1−	2000 04 05	704	0.2−	0.4+	2000 04 06	691	0.1−	0.6−
2000 03 03	704	1.5+	0.2−	2000 04 05	704	0.3+	0.0	2000 04 06	691	0.0	0.2−
2000 03 03	704	0.8+	0.2−	2000 04 05	704	0.3+	0.3−	2000 04 10	704	0.6−	0.6+
2000 03 03	704	0.6+	0.5−	2000 04 05	704	0.0	0.1−	2000 04 10	704	0.5+	0.3−
2000 03 11	704	1.0−	0.2−	2000 04 05	704	0.5+	0.2−	2000 04 10	704	1.1−	0.3+
2000 03 11	699	0.9−	0.2+	2000 04 05	704	0.3−	0.6+	2000 04 10	704	0.2−	0.9+
2000 03 11	704	0.8−	0.2+	2000 04 05	704	0.4+	0.3+	2000 04 10	704	0.4+	0.6−

2000 EQ₁₇₀ = 1993 JD₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams											
<i>M</i>	284.35955		(2000.0)	P		Q					
<i>n</i>	0.26373907	<i>ω</i>	200.38272	−0.27534558		+0.95512795					
<i>a</i>	2.4081659	<i>Ω</i>	53.78860	−0.86221366		−0.19513717					
<i>e</i>	0.1029270	<i>i</i>	7.77539	−0.42517340		−0.22282749					
<i>P</i>	3.74	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1993 05 14	809	0.2−	0.7+	2000 03 05	704	0.2+	0.4+	2000 04 03	704	1.0+	0.6−
1993 05 14	809	0.4+	0.3+	2000 03 05	704	0.3−	0.6+	2000 04 03	704	0.7+	0.1−
1993 05 14	809	(3.3+	0.1−)	2000 03 12	704	0.3+	0.1+	2000 04 08	704	0.5−	0.5−
1993 05 15	809	0.0	0.4+	2000 03 12	704	1.1+	0.5−	2000 04 08	704	0.5−	0.5−
1993 05 15	809	0.2−	1.4−	2000 03 12	704	0.0	0.5−	2000 04 08	704	1.0−	0.3+
1993 05 15	809	(0.7+	2.6−)	2000 03 12	704	0.1−	0.1−	2000 04 08	704	0.3+	0.6+
2000 03 05	704	0.0	0.6+	2000 03 12	704	0.6−	0.8−	2000 04 08	704	0.4+	0.1−
2000 03 05	704	0.5−	0.1+	2000 04 03	704	0.0	1.0+				
2000 03 05	704	0.2−	0.0	2000 04 03	704	0.4−	0.0				

2000 EU₁₇₀ = 1999 AQ₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	0.13074		(2000.0)	P	Q
n	0.16314769	ω	122.64412	−0.95471649	−0.26491245
a	3.3170251	Ω	42.43369	+0.15743478	−0.83604613
e	0.2015284	i	11.57769	+0.25244942	−0.48046671
P	6.04	H	13.6	G 0.15	U 3

2000 03 05	704	0.4−	0.1+	2000 04 04	704	0.3+	0.4+	2000 04 09	608	0.3+	1.1−
2000 03 05	704	0.2−	0.3+	2000 04 04	704	0.1−	0.9+	2000 04 09	608	0.4+	1.1−

2000 EV₁₇₀ = 1992 PO₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	230.52787		(2000.0)		P		Q
<i>n</i>	0.21303113	ω	197.37048		+0.72508524		+0.67373505
<i>a</i>	2.7765618	Ω	119.39806		−0.61080346		+0.72480872
<i>e</i>	0.2181571	<i>i</i>	9.41983		−0.31807315		+0.14399099
<i>P</i>	4.63	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1992 08 05	675	1.0−	0.3−	2000 03 05	704	0.2−	0.3−	2000 04 03	704	0.6+	0.0
1992 08 05	675	0.6−	0.2−	2000 03 05	704	0.3−	0.4−	2000 04 03	704	0.7+	0.0
1992 08 06	675	0.1−	0.8−	2000 03 12	704	0.4+	0.9+	2000 04 03	704	0.3+	0.5+
1992 08 06	675	1.2−	0.7+	2000 03 12	704	0.4−	0.5+	2000 04 08	704	0.2+	0.2+
2000 03 05	704	0.1−	0.2−	2000 03 12	704	0.5+	0.0	2000 04 08	704	0.6−	0.7−
2000 03 05	704	0.3−	0.0	2000 03 12	704	0.2−	0.9−	2000 04 08	704	1.2−	0.0
2000 03 05	704	0.3−	0.4+	2000 03 12	704	0.5+	0.4+				

2000 EZ₁₇₀ = 1997 UG₁₀ = 1998 UN₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	149.51452		(2000.0)		P		Q
<i>n</i>	0.15285321	ω	273.58558		+0.93953287		−0.29351937
<i>a</i>	3.4643334	Ω	103.54371		+0.33870679		+0.87249372
<i>e</i>	0.1017875	<i>i</i>	10.45524		−0.05055387		+0.39064188
<i>P</i>	6.45	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 10 29	566	0.2+	0.0	2000 03 05	704	0.1+	0.2+	2000 03 26	699	0.1+	1.1+
1997 10 29	566	0.2+	0.1+	2000 03 05	704	0.2+	0.3+	2000 03 26	699	0.3+	0.1+
1997 10 29	566	0.1+	0.1−	2000 03 05	704	0.3+	0.4+	2000 03 28	704	0.1−	0.4+
1997 10 30	566	0.4−	0.6+	2000 03 05	704	0.5+	0.6+	2000 03 28	704	0.8+	0.1−
1997 10 30	566	0.3−	0.6+	2000 03 05	704	0.2+	0.6+	2000 03 28	704	0.6+	0.2+
1997 10 30	566	0.8−	1.0+	2000 03 05	608	0.6−	0.1−	2000 04 04	704	1.1−	0.6−
1998 10 24	691	0.4+	0.1−	2000 03 05	608	0.6−	0.4−	2000 04 04	704	0.3−	0.3+
1998 10 24	691	0.5+	0.1−	2000 03 05	608	0.5−	0.4−	2000 04 04	704	0.3+	0.6+
1998 10 24	691	0.3+	0.2−	2000 03 08	704	0.2+	1.3+	2000 04 04	704	1.0−	0.7−
1998 10 27	691	0.0	0.4−	2000 03 08	704	1.0−	0.6−	2000 04 04	704	1.0+	0.3+
1998 10 27	691	0.0	0.1−	2000 03 08	704	1.1−	0.3+	2000 04 08	704	1.0+	0.5−
1998 10 27	691	0.4+	0.3−	2000 03 08	704	1.5−	1.2−	2000 04 08	704	0.6−	0.3+
1998 12 12	691	0.6−	0.7−	2000 03 08	704	(3.7−	0.0)	2000 04 08	704	1.2+	1.5+
1998 12 12	691	0.1+	0.1−	2000 03 12	704	0.6+	0.7−	2000 04 08	704	0.3+	0.2−
1998 12 12	691	0.6−	0.3−	2000 03 12	704	0.3−	1.1−	2000 04 08	704	0.0	0.9+
2000 02 04	704	0.2+	0.3+	2000 03 12	704	0.1−	0.5−	2000 04 12	608	0.1−	0.6−
2000 02 04	704	0.6+	0.6+	2000 03 12	704	0.5+	0.7−	2000 04 12	608	0.1−	0.7−
2000 02 04	704	1.0+	0.8+	2000 03 12	704	0.2+	0.3−	2000 04 12	608	0.0	0.3−
2000 02 04	704	0.4+	0.6−	2000 03 26	699	0.3−	0.6+				
2000 02 04	704	0.1−	0.8+	2000 03 26	699	0.0	0.7+				

2000 EV₁₇₁ = 1991 JQ₄ = 1998 YD₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	157.67940		(2000.0)		P		Q
<i>n</i>	0.20145432	ω	283.50387		+0.96156501		−0.16972358
<i>a</i>	2.8819404	Ω	86.58862		+0.24566382		+0.88289961
<i>e</i>	0.0683041	<i>i</i>	12.48726		−0.12264590		+0.43781524
<i>P</i>	4.89	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1991 05 13	809	0.8+	1.1−	1998 12 16	704	0.7+	0.4+	2000 03 12	704	0.5−	0.0
1991 05 13	809	(0.0	2.8−)	1998 12 16	704	0.7−	1.4+	2000 03 12	704	0.4−	0.1−
1991 05 13	809	(2.0+	2.5−)	1998 12 17	704	0.6−	0.2+	2000 04 04	704	0.8+	0.8−
1991 05 17	809	0.1−	1.3+	1998 12 17	704	0.3+	0.4−	2000 04 04	704	0.7+	0.2+
1991 05 17	809	0.5−	0.5+	1998 12 17	704	0.6−	0.9−	2000 04 04	704	0.4+	1.1−
1991 05 17	809	(2.9+	0.5+)	1998 12 17	704	0.7−	1.1−	2000 04 04	704	0.2+	0.6−

1998 12 14	704	1.4+	1.3+	2000 03 05	704	(5.9+	0.5+)	2000 04 04	704	0.4+	0.5−
1998 12 14	704	0.1−	0.3−	2000 03 05	704	(4.8+	0.2−)	2000 04 08	704	0.4+	0.8+
1998 12 14	704	(2.5−	2.2−)	2000 03 05	704	(4.8+	0.1+)	2000 04 08	704	0.1−	0.2+
1998 12 14	704	(6.4−	0.9−)	2000 03 05	704	(6.2+	0.3+)	2000 04 08	704	0.5−	0.7+
1998 12 16	704	0.1−	0.5−	2000 03 12	704	0.3−	0.3−	2000 04 08	704	0.3−	0.7+
1998 12 16	704	0.5+	0.1−	2000 03 12	704	0.9−	0.3+	2000 04 08	704	0.1+	0.8+
1998 12 16	704	0.4−	0.6+	2000 03 12	704	0.0	0.7−				

2000 EZ₁₇₁ = 1994 BQ = 1995 KT₅ = 1999 CX₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	306.41722		(2000.0)		P		Q
<i>n</i>	0.18790277	ω	156.33493		+0.06958028		+0.97976648
<i>a</i>	3.0188899	Ω	117.19350		−0.94564036		+0.12468674
<i>e</i>	0.2126999	<i>i</i>	12.17978		−0.31768363		−0.15655948
<i>P</i>	5.25	<i>H</i>	12.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 01 17	098	1.0−	0.5−	1999 02 13	704	0.1+	0.5−	2000 03 09	704	0.1+	1.0+
1994 01 17	098	0.2+	1.9−	1999 02 13	704	0.6+	0.1+	2000 04 05	704	0.1−	0.0
1994 01 18	098	(0.0	2.2−)	1999 02 13	704	0.0	0.4+	2000 04 05	704	0.1+	0.2−
1994 01 19	098	(0.0	3.5−)	1999 02 13	704	0.9+	0.3−	2000 04 05	704	0.0	0.0
1995 05 24	693	0.3+	1.8−	1999 02 18	566	0.5−	0.2−	2000 04 05	704	0.2−	0.1+
1995 05 24	693	(1.4−	2.6−)	1999 02 18	566	0.6−	0.2−	2000 04 05	704	0.1+	0.0
1995 05 25	693	0.6−	0.2+	1999 02 18	566	0.6−	0.3−	2000 04 08	704	0.2−	0.2+
1995 05 25	693	0.1+	0.3+	1999 02 23	699	0.0	1.7+	2000 04 08	704	0.2−	0.2−
1999 01 19	704	0.0	0.8+	1999 02 23	699	1.0+	0.6+	2000 04 08	704	0.8−	0.7+
1999 01 19	704	0.6−	0.6+	1999 02 23	699	0.9−	1.3+	2000 04 09	699	0.5−	0.1−
1999 01 19	704	0.3+	0.5−	2000 02 06	704	0.1+	0.1+	2000 04 09	699	0.1−	0.0
1999 01 19	704	0.1−	0.8−	2000 02 06	704	0.1−	0.6+	2000 04 09	699	0.4−	0.2+
1999 01 19	704	0.4−	0.0	2000 02 06	704	0.3−	0.1+	2000 04 09	699	0.5−	0.0
1999 02 10	704	0.4+	0.7−	2000 02 06	704	0.2−	0.3+	2000 04 12	608	0.5+	0.3−
1999 02 10	704	0.3−	0.2+	2000 02 06	704	0.5−	0.2+	2000 04 12	608	0.4+	0.3−
1999 02 10	704	0.6−	0.5−	2000 03 08	704	0.1−	1.2−	2000 04 12	608	0.6+	0.5−
1999 02 10	704	0.2−	0.1−	2000 03 08	704	0.9+	0.2−	2000 04 14	704	0.3−	0.3−
1999 02 10	704	0.5−	0.2−	2000 03 08	704	0.9+	0.4+	2000 04 14	704	0.3−	0.0
1999 02 11	699	1.4+	0.5−	2000 03 08	704	0.3+	1.8+	2000 04 14	704	0.6−	0.1+
1999 02 11	699	1.0+	0.2+	2000 03 09	704	0.6+	0.9−	2000 04 14	704	0.4−	0.1+
1999 02 11	699	0.1−	0.3+	2000 03 09	704	1.8+	0.0	2000 04 14	704	0.6−	0.1+
1999 02 13	704	0.0	0.5−	2000 03 09	704	1.0+	0.6+				

2000 EG₁₇₂ = 1998 RT₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	107.01765		(2000.0)		P		Q
<i>n</i>	0.28912071	ω	242.57870		+0.60458290		−0.79639896
<i>a</i>	2.2650785	Ω	170.17966		+0.75851837		+0.56982911
<i>e</i>	0.1753723	<i>i</i>	5.08152		+0.24316538		+0.20259191
<i>P</i>	3.41	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 05 07	704	0.2+	1.0−	1998 09 14	704	0.4+	0.9+	2000 03 11	704	0.1−	0.9−
1997 05 07	704	0.9+	1.2−	1998 09 18	704	0.0	0.7+	2000 03 11	704	1.2−	0.2−
1997 05 07	704	1.1−	0.3+	1998 09 18	704	0.7+	1.6+	2000 03 26	699	0.7+	0.4−
1997 05 07	704	0.4−	0.4+	1998 09 18	704	0.5−	0.0	2000 03 26	699	0.0	0.7+
1998 08 17	704	0.9−	0.2+	1998 09 18	704	0.8−	1.5−	2000 03 26	699	0.8−	0.2+
1998 08 17	704	1.7−	1.8−	1998 09 18	704	0.3+	1.6+	2000 03 26	699	1.1+	0.3+
1998 08 17	704	(2.3−	0.7+)	2000 02 26	691	0.1−	0.3−	2000 04 05	704	0.1−	0.5+
1998 08 17	704	1.4+	1.3−	2000 02 26	691	0.4−	0.2−	2000 04 05	704	0.0	0.7+
1998 08 17	704	0.5+	1.2+	2000 02 26	691	0.1−	0.0	2000 04 05	704	0.3+	0.4+
1998 08 23	704	0.2+	1.0+	2000 03 10	704	(0.0	2.4+)	2000 04 05	704	0.8+	0.6+
1998 08 23	704	(0.0	2.6−)	2000 03 10	704	0.1−	0.2+	2000 04 05	704	0.2−	0.2+
1998 08 23	704	0.4+	0.8−	2000 03 10	704	0.6+	0.0	2000 04 06	704	0.6+	0.4+
1998 08 23	704	2.0−	0.1−	2000 03 10	704	0.6−	0.9−	2000 04 06	704	0.6+	1.2+
1998 09 14	704	0.2+	0.8+	2000 03 11	704	0.1+	1.6+	2000 04 06	704	0.4+	0.6+
1998 09 14	704	0.1+	0.1+	2000 03 11	704	0.2+	0.6+				
1998 09 14	704	0.6+	0.1−	2000 03 11	704	0.1−	1.2−				

2000 APR. 18

M.P.C. 40217

2000 FA = 1991 PL = 1997 LR₁₄

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 266.03570 (2000.0)			P		Q	
<i>n</i>	0.30937413	ω	133.48448	+0.45680468	+0.88953087	
<i>a</i>	2.1651104	Ω	163.69128	−0.82418279	+0.42660423	
<i>e</i>	0.1141837	<i>i</i>	1.63653	−0.33474202	+0.16353488	
<i>P</i>	3.19	<i>H</i>	14.9	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

1991 08 05	675	0.2−	0.0	2000 03 16	704	0.0	0.2+	2000 04 06	704	0.3+	0.2−
1991 08 05	675	0.1−	1.3−	2000 03 16	704	0.5−	0.4+	2000 04 06	704	0.2+	0.5−
1991 08 06	675	0.6−	0.5+	2000 03 17	704	0.8+	1.0+	2000 04 06	704	0.5−	0.2−
1991 08 06	675	0.4−	0.3+	2000 03 17	704	(2.3+ 0.9+)		2000 04 07	704	0.1−	0.0
1991 08 08	675	0.9+	0.4−	2000 03 17	704	0.5−	0.2−	2000 04 07	704	0.0	0.2+
1991 08 08	675	0.2+	0.7+	2000 03 17	704	0.3−	0.3−	2000 04 07	684	0.2−	0.8+
1991 08 10	675	0.5−	0.8+	2000 04 05	704	0.0	0.2+	2000 04 07	684	0.2+	0.5+
1991 08 10	675	0.3+	0.5+	2000 04 05	704	0.1−	0.1−	2000 04 07	704	0.1+	0.1+
1997 06 08	809	0.1+	0.4−	2000 04 05	704	0.3+	0.6−	2000 04 07	704	0.3+	0.2+
1997 06 08	809	0.2−	0.2−	2000 04 05	704	0.0	0.6−	2000 04 07	704	0.0	0.3+
1997 06 08	809	0.3−	0.9−	2000 04 05	704	0.0	1.0−	2000 04 10	608	0.6+	0.4+
1997 06 09	809	(1.6+ 4.7+)		2000 04 06	684	0.3−	0.4+	2000 04 10	608	0.5+	0.5+
1997 06 09	809	(1.6+ 5.2+)		2000 04 06	684	0.2−	0.4+	2000 04 10	608	0.3+	0.5+
1997 06 09	809	(1.8+ 4.8+)		2000 04 06	704	0.4+	0.2+				
2000 03 16	704	0.1−	0.3−	2000 04 06	704	0.6−	0.1−				

2000 FM = 1998 XY₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 341.91563 (2000.0)			P		Q	
<i>n</i>	0.21970256	ω	106.68535	−0.87318468	+0.46304220	
<i>a</i>	2.7200651	Ω	101.11865	−0.48497977	−0.79446587	
<i>e</i>	0.0694361	<i>i</i>	8.91852	−0.04840591	−0.39295789	
<i>P</i>	4.49	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 15	704	0.5−	0.9−	2000 03 07	704	0.0	0.2+	2000 04 05	704	0.6+	0.2+
1998 12 15	704	(1.1− 2.9−)		2000 03 07	704	0.3+	1.0+	2000 04 05	704	0.3+	0.2−
1998 12 15	704	0.4+	0.5−	2000 03 07	704	0.3−	0.5+	2000 04 05	704	0.2+	0.0
1998 12 15	704	0.0	0.1−	2000 03 25	411	0.7+	1.4−	2000 04 05	704	0.0	0.0
1998 12 16	704	0.9−	0.7−	2000 03 25	411	0.2+	0.3+	2000 04 08	704	0.2+	0.1−
1998 12 16	704	0.2−	0.9+	2000 03 26	411	0.2−	0.9−	2000 04 08	704	0.1−	0.2−
1998 12 16	704	0.7−	1.8+	2000 03 26	411	0.7−	0.2−	2000 04 08	704	0.2+	0.2−
1998 12 22	704	0.7+	0.5−	2000 03 29	704	0.3−	0.5−	2000 04 08	704	0.2+	0.1+
1998 12 22	704	1.1+	0.7−	2000 03 29	704	0.5+	0.5+	2000 04 08	704	0.2+	0.4+
1998 12 22	704	0.0	0.2+	2000 03 29	704	0.2−	0.0	2000 04 08	350	0.7−	0.5−
1998 12 22	704	0.1+	0.6+	2000 03 29	704	0.1+	0.6+	2000 04 08	350	0.6−	0.1−
2000 01 08	704	0.7+	0.4−	2000 03 29	704	0.1+	1.4+	2000 04 08	350	1.0−	0.2−
2000 01 08	704	0.1−	0.2−	2000 04 04	699	0.3−	0.0	2000 04 13	704	0.4+	0.2+
2000 01 08	704	1.1−	0.2−	2000 04 04	699	0.2−	0.2−	2000 04 13	704	0.4+	0.3−
2000 02 06	704	0.1+	0.2−	2000 04 04	699	0.4−	0.1−	2000 04 13	704	0.3+	0.2+
2000 02 06	704	0.6+	0.3+	2000 04 04	699	0.5−	0.1+	2000 04 13	704	0.3+	0.4+
2000 02 06	704	0.0	0.8−	2000 04 05	704	0.2+	0.1+	2000 04 13	704	0.2−	0.2+

2000 FX = 1990 TP₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 200.31595 (2000.0)			P		Q	
<i>n</i>	0.26253428	ω	186.30813	+0.97503592	+0.22127173	
<i>a</i>	2.4155278	Ω	160.87746	−0.20117069	+0.91562729	
<i>e</i>	0.1857022	<i>i</i>	3.24463	−0.09399635	+0.33565680	
<i>P</i>	3.75	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

1990 10 14	046	0.1+	0.7+	2000 03 11	704	0.2+	0.8−	2000 04 05	704	0.5−	0.2−
1990 10 14	046	0.2−	1.6+	2000 03 11	704	1.8−	0.2+	2000 04 05	704	0.1+	0.3+
1990 10 15	046	0.4−	1.0−	2000 03 11	704	0.1+	0.7+	2000 04 06	704	1.1+	0.5+

1990 10 15	046	(2.8+ 0.2+)		2000 03 11	704	0.3+	1.0+	2000 04 06	704	0.5−	0.2−
1994 12 02	691	0.4+	0.1−	2000 03 11	704	1.2−	0.4+	2000 04 06	704	0.1−	0.4+
1994 12 02	691	0.1−	0.3−	2000 03 11	704	1.1+	1.2+	2000 04 06	704	0.2+	0.2+
1994 12 02	691	0.1−	0.2−	2000 03 26	684	0.2+	0.6−	2000 04 07	699	0.4+	0.4−
2000 03 11	704	1.1+	0.5+	2000 03 26	684	0.2+	0.5−	2000 04 07	699	0.4−	0.5+
2000 03 11	704	1.8−	0.3+	2000 03 27	684	0.4+	0.7−	2000 04 07	704	0.2+	0.2−
2000 03 11	704	1.2+	1.0+	2000 03 27	684	0.4+	0.8−	2000 04 07	699	0.1+	0.4−
2000 03 11	704	(2.4− 0.6+)		2000 03 30	684	0.4+	1.0−	2000 04 07	704	0.2+	0.7+
2000 03 11	704	0.6+	0.3+	2000 03 30	684	0.1−	0.8−	2000 04 07	699	(2.4− 0.4+)	
2000 03 11	704	1.5−	0.5−	2000 04 05	704	0.4+	0.1−	2000 04 07	704	1.4−	0.9−
2000 03 11	704	1.0+	0.6+	2000 04 05	704	0.1−	0.3+	2000 04 07	704	0.3−	0.7+
2000 03 11	704	(2.3− 0.3−)		2000 04 05	704	0.1−	0.0				

2000 FP₁ = 1994 SM₁ = 1998 VU₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 109.25827 (2000.0)			P		Q	
<i>n</i>	0.26391467	ω	57.76383	+0.38856201	−0.92123898	
<i>a</i>	2.4070976	Ω	9.42560	+0.80309455	+0.32880966	
<i>e</i>	0.0848280	<i>i</i>	6.44863	+0.45172858	+0.20785319	
<i>P</i>	3.73	<i>H</i>	15.5	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

1994 09 28	691	0.4+	0.0	1998 11 11	704	0.3+	0.7−	2000 03 27	691	1.1−	0.0
1994 09 28	691	0.1+	0.2+	1998 11 11	704	1.0+	1.2−	2000 04 05	704	0.2+	0.3−
1994 09 28	691	0.3+	0.1+	2000 03 10	704	1.2+	0.6+	2000 04 05	704	0.0	0.3+
1994 10 04	691	0.5−	0.1+	2000 03 10	704	0.9−	0.7+	2000 04 05	704	0.5+	0.1+
1994 10 04	691	0.3−	0.1+	2000 03 10	704	0.7−	0.1+	2000 04 05	704	0.0	0.0
1994 10 04	691	0.2−	0.0	2000 03 10	704	0.1+	0.3−	2000 04 05	704	0.2+	0.4+
1998 11 10	704	0.4−	1.1+	2000 03 25	691	0.3−	0.0	2000 04 06	704	0.3−	0.9+
1998 11 10	704	0.2+	0.1−	2000 03 25	691	0.3−	0.1−	2000 04 06	704	1.5+	0.1−
1998 11 10	704	0.3−	0.2+	2000 03 25	691	0.2−	0.0	2000 04 06	704	1.9+	1.7−
1998 11 11	704	0.8−	0.4−	2000 03 27	691	0.7−	0.1−				
1998 11 11	704	0.1−	1.3+	2000 03 27	691	0.7−	0.0				

2000 FT₁ = 1995 CG₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 223.26102 (2000.0)			P		Q	
<i>n</i>	0.23028122	ω	143.85609	+0.90847197	+0.41789350	
<i>a</i>	2.6361111	Ω	191.44786	−0.39084857	+0.84386276	
<i>e</i>	0.1469386	<i>i</i>	1.90879	−0.14804079	+0.33654223	
<i>P</i>	4.28	<i>H</i>	16.2	<i>G</i> 0.15	<i>U</i>	5

Residuals in seconds of arc

1995 02 01	691	0.2−	0.4−	2000 03 25	691	0.6+	0.1−	2000 04 05	704	0.7+	0.4+
1995 02 01	691	0.1+	0.3−	2000 03 27	691	0.9−	0.1−	2000 04 05	704	0.2+	0.2−
1995 02 01	691	0.2−	0.0	2000 03 27	691	0.8−	0.3−	2000 04 05	704	0.1+	0.6+
1995 02 04	691	0.1+	0.1−	2000 03 27	691	0.9−	0.1−	2000 04 05	704	0.1+	1.1−
1995 02 04	691	0.3+	0.6+	2000 04 05	691	0.1−	0.7+	2000 04 11	691	0.3−	0.2−
1995 02 04	691	0.0	0.2+	2000 04 05	691	0.2−	0.3+	2000 04 11	691	0.3−	0.1−
2000 03 25	691	0.5+	0.1+	2000 04 05	691	0.2−	0.4+	2000 04 11	691	0.4−	0.2−
2000 03 25	691	0.4+	0.3+	2000 04 05	704	1.4+	0.2−				

2000 FW₂ = 1998 YO₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 214.05559 (2000.0)			P		Q	
<i>n</i>	0.22966486	ω	245.80403	+0.92516943	+0.31070779	
<i>a</i>	2.6408253	Ω	95.49605	−0.21664009	+0.90387908	
<i>e</i>	0.0744930	<i>i</i>	12.65046	−0.31165461	+0.29404639	
<i>P</i>	4.29	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 17	704	0.8+	0.1+	2000 03 27	734	1.8−	0.1+	2000 04 04

M.P.C. 40218

1998 12 17	704	0.8+	0.2-	2000 03 28	734	1.8-	0.9+	2000 04 08	734	0.1+	0.0
1998 12 19	704	0.6-	0.7-	2000 03 28	734	0.9-	0.8+	2000 04 08	734	0.3+	0.2-
1998 12 19	704	0.5-	0.7-	2000 03 28	734	0.8-	1.1+	2000 04 08	704	0.7+	1.2+
1998 12 19	704	1.1+	0.2+	2000 04 02	860	0.2-	0.8-	2000 04 08	704	1.1+	0.5+
1998 12 19	704	0.6-	0.0	2000 04 02	860	0.9+	0.8-	2000 04 08	704	0.3+	0.2+
1999 01 19	704	0.5+	1.5-	2000 04 02	734	1.4-	0.1-	2000 04 08	704	0.9+	0.3+
1999 01 19	704	0.8-	0.2+	2000 04 02	734	1.3-	0.6-	2000 04 08	704	0.8+	0.1-
1999 01 19	704	0.5-	1.3-	2000 04 02	734	0.4-	0.2-	2000 04 14	704	0.7+	0.6+
1999 01 19	704	0.5-	1.1+	2000 04 03	704	0.4+	0.2+	2000 04 14	704	0.7+	0.3+
1999 01 19	704	0.7-	1.2+	2000 04 03	704	0.3+	0.2+	2000 04 14	704	0.2+	0.1+
2000 03 02	703	0.3-	0.7-	2000 04 03	704	0.4+	0.2+	2000 04 14	704	0.6+	0.5-
2000 03 02	703	0.7+	0.4-	2000 04 03	704	0.6+	0.0	2000 04 14	704	0.0	0.4+
2000 03 02	703	0.8-	0.3+	2000 04 04	699	0.2+	0.5+				
2000 03 02	703	0.6+	0.7+	2000 04 04	699	0.6+	0.9+				

2000 FA₃ = 1990 EV₃ = 1998 WH₂₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	282.66251		(2000.0)	P	Q		
<i>n</i>	0.29834423	ω	319.37899	-0.07399839	+0.99609895		
<i>a</i>	2.2181502	Ω	306.32363	-0.89881955	-0.08750023		
<i>e</i>	0.0951848	<i>i</i>	3.42080	-0.43202739	+0.01142796		
<i>P</i>	3.30	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 03 02	809	(6.3+ 5.5-)	2000 03 03	703	1.2-	0.9+	2000 04 07	704	0.0	0.5-
1990 03 02	809	(5.9+ 5.8-)	2000 03 03	703	0.7-	0.4+	2000 04 07	699	0.3-	0.0
1990 03 02	809	(6.0+ 6.1-)	2000 03 03	703	0.7-	0.8-	2000 04 07	704	0.4+	0.2-
1990 03 04	809	(7.4+ 5.8-)	2000 03 09	704	0.2+	0.7-	2000 04 07	704	0.5+	0.0
1990 03 04	809	(7.5+ 6.3-)	2000 03 09	704	1.4+	0.5-	2000 04 07	704	0.5-	1.8+
1990 03 04	809	(6.8+ 5.9-)	2000 03 09	704	1.0-	1.3-	2000 04 08	704	0.1-	0.4-
1993 01 22	809	0.9- 0.3+	2000 03 27	888	0.3+	0.3-	2000 04 08	704	0.7+	0.7-
1993 01 22	809	0.1+ 0.0	2000 03 27	888	0.1+	0.0	2000 04 08	704	0.0	0.2+
1993 01 22	809	0.8+ 0.0	2000 03 27	888	0.1+	0.2+	2000 04 08	704	0.1+	0.7-
1998 11 18	704	0.6+ 0.3+	2000 03 29	888	0.1+	0.2+	2000 04 08	704	0.2+	0.5-
1998 11 18	704	0.3+ 0.1-	2000 03 29	888	0.1+	0.2-	2000 04 10	704	0.5+	0.9+
1998 11 18	704	0.5+ 0.2+	2000 03 29	888	0.0	0.2-	2000 04 10	704	1.0+	0.6+
1998 11 18	704	0.8- 0.5+	2000 03 30	888	0.3-	0.1+	2000 04 10	704	0.5-	1.0+
1998 11 18	704	1.5- 0.2+	2000 03 30	888	0.4+	0.4+	2000 04 10	704	0.3+	0.0
1998 11 21	704	0.7+ 0.7-	2000 03 30	888	0.4+	0.2+	2000 04 11	888	0.1+	0.1-
1998 11 21	704	(2.5+ 0.3+)	2000 04 07	699	0.2-	0.3-	2000 04 11	888	0.4+	0.4+
1998 11 21	704	(4.3+ 0.5+)	2000 04 07	699	0.2-	0.3+	2000 04 11	888	0.5-	0.1+
2000 03 03	703	1.3-	0.3-	2000 04 07	699	0.1-	0.1+			

2000 FJ₃ = 1998 XP₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	278.88137		(2000.0)	P	Q		
<i>n</i>	0.23864983	ω	159.00875	-0.03780116	+0.97000168		
<i>a</i>	2.5741191	Ω	108.19106	-0.94907334	+0.04036903		
<i>e</i>	0.1382159	<i>i</i>	14.64177	-0.31277927	-0.23972294		
<i>P</i>	4.13	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.5-	0.1+	2000 03 15	704	0.9+	0.4+	2000 03 29	704	0.3+	0.6+
1998 12 15	704	0.2-	0.5+	2000 03 15	704	0.6+	0.5+	2000 03 29	704	0.4+	0.2+
1998 12 15	704	0.5-	1.3+	2000 03 26	699	0.4-	0.4+	2000 04 02	704	0.1+	0.7-
1998 12 15	704	0.2-	1.0+	2000 03 26	699	0.4-	0.2+	2000 04 02	704	0.9-	0.6-
1998 12 15	704	0.1-	0.9+	2000 03 26	699	0.2+	0.7-	2000 04 02	704	0.9-	1.0-
1998 12 22	704	0.1+	0.2+	2000 03 26	699	0.3+	0.2+	2000 04 02	704	1.1-	1.3-
1998 12 22	704	0.7+	1.3-	2000 03 28	704	0.2+	0.4+	2000 04 02	704	0.1+	1.9-
1998 12 22	704	0.0	1.4-	2000 03 28	704	0.1-	0.4+	2000 04 08	704	0.3+	0.2-
1998 12 22	704	0.1+	0.3+	2000 03 28	704	0.0	0.8+	2000 04 08	704	0.4-	0.2+
1998 12 22	704	0.7+	1.9-	2000 03 28	704	0.4+	0.3+	2000 04 08	704	0.2-	0.2-
2000 03 15	704	0.0	0.3-	2000 03 29	704	0.1-	0.2+	2000 04 08	704	0.3-	0.2+
2000 03 15	704	0.0	0.1+	2000 03 29	704	0.0	0.1+	2000 04 08	704	0.0	0.4+
2000 03 15	704	0.5+	0.7+	2000 03 29	704	0.3+	0.5+				

2000 FK₃ = 1998 XG₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	96.14419		(2000.0)	P	Q		
<i>n</i>	0.19038297	ω	354.14440	+0.38544747	-0.90437554		
<i>a</i>	2.9926136	Ω	73.07197	+0.85416658	+0.27463765		
<i>e</i>	0.0739376	<i>i</i>	11.03566	+0.34904110	+0.32661759		
<i>P</i>	5.18	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 14	704	0.2-	0.0	2000 01 07	704	0.8+	0.2+	2000 03 29	704	0.3+	0.4+
1998 12 14	704	0.1+	0.2-	2000 01 07	704	0.6-	0.4-	2000 03 29	704	0.7-	0.4+
1998 12 14	704	0.3+	0.4+	2000 01 07	704	0.9+	0.0	2000 03 29	704	0.3-	0.5+
1998 12 14	704	0.3-	0.3-	2000 02 04	704	0.9+	0.0	2000 04 04	704	0.2+	0.8-
1998 12 14	704	0.6-	0.5-	2000 02 04	704	0.2-	0.7+	2000 04 04	704	0.2+	0.1-
1998 12 16	704	0.1+	0.4+	2000 02 04	704	0.8-	0.8-	2000 04 04	704	0.3-	0.4+
1998 12 16	704	0.4-	0.0	2000 03 05	704	0.6-	0.9+	2000 04 04	704	0.3-	0.1+
1998 12 16	704	1.0+	1.6+	2000 03 05	704	0.0	0.4+	2000 04 04	704	0.5+	0.2+
1998 12 16	704	(0.7+	6.1+)	2000 03 05	704	0.2-	0.0	2000 04 07	608	0.5+	0.5+
1998 12 16	704	(0.9-	2.4+)	2000 03 05	704	0.1-	0.0	2000 04 07	608	0.1+	0.6-
1998 12 17	704	0.3-	0.1+	2000 03 12	704	0.2-	0.0	2000 04 07	608	0.3+	0.2-
1998 12 17	704	0.3-	0.1+	2000 03 12	704	0.2+	0.1-	2000 04 08	704	0.3+	0.1+
1998 12 17	704	0.6+	0.2+	2000 03 12	704	0.1+	0.6+	2000 04 08	704	0.0	0.1+
1998 12 17	704	(0.1+	2.6+)	2000 03 12	704	0.1-	0.4-	2000 04 08	704	0.1-	1.2+
1999 01 11	704	1.0+	1.4-	2000 03 12	704	0.7+	0.2+	2000 04 08	704	0.4-	0.2+
1999 01 11	704	0.2-	0.8+	2000 03 28	704	0.5-	0.2+	2000 04 08	704	0.6-	0.3+
1999 01 11	704	0.5+	0.1-	2000 03 28	704	0.3-	0.5+	2000 04 11	608	0.9+	1.4-
1999 01 11	704	1.3-	1.1-	2000 03 28	704	0.5-	0.2+	2000 04 11	608	0.7+	1.7-
2000 01 07	704	1.0+	0.1-	2000 03 28	704	0.5-	0.0	2000 04 11	608	0.5+	1.3-
2000 01 07	704	1.4-	1.5-	2000 03 29	704	0.1-	0.5+				

2000 FS₃ = 1989 CJ₄ = 1998 XO₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	121.99777		(2000.0)	P	Q		
<i>n</i>	0.19216610	ω	324.99581	+0.73071601	-0.65619307		
<i>a</i>	2.9740724	Ω	77.16638	+0.66211610	+0.61400683		
<i>e</i>	0.1042820	<i>i</i>	11.13643	+0.16630207	+0.43864139		
<i>P</i>	5.13	<i>H</i>	12.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1989 02 01	033	0.2+	1.0-	1999 01 16	704	0.2+	0.5+	2000 03 29	704	0.1-	0.1-
1989 02 01	033	0.9-	1.0-	1999 01 16	704	0.3-	0.8+	2000 03 29	704	0.2+	0.2+
1989 02 02	033	0.4-	1.2-	1999 01 16	704	0.6-	1.5+	2000 03 29	704	0.1-	0.2-
1989 02 02	033	1.2+	1.1-	2000 02 04	704	0.4+	0.1-	2000 03 29	704	0.2-	0.0
1998 12 14	704	0.1-	0.2+	2000 02 04	704	0.7+	0.1+	2000 03 29	704	0.2-	0.0
1998 12 14	704	0.1+	0.7-	2000 02 04	704	1.1+	0.1-	2000 04 04	704	0.1-	0.0
1998 12 14	704	0.8+	1.6-	2000 02 04	704	1.0+	1.1+	2000 04 04	704	0.2+	0.2+
1998 12 14	704	1.0+	0.3-	2000 03 05	704	0.2+	0.3-	2000 04 04	704	0.5-	0.1-
1998 12 14	704	1.0+	1.2+	2000 03 05	704	0.3-	0.3-	2000 04 04	704	(2.5+ 0.0)	
1998 12 17	704	(2.0+ 2.9+)		2000 03 05	704	0.1-	0.3-	2000 04 04	704	0.5-	0.3-
1998 12 17	704	1.8-	0.9+	2000 03 12	704	0.1-	0.4+	2000 04 08	704	0.5-	0.3-
1998 12 17	704	0.9-	0.3+	2000 03 12	704	0.7+	0.2+	2000 04 08	704	0.6-	0.2-
1998 12 17	704	0.2-	0.2+	2000 03 12	704	0.3+	1.0+	2000 04 08	704	0.1-	0.4+
1998 12 17	704	1.3-	0.2+	2000 03 28	704	0.3-	0.4-	2000 04 08	704	0.2-	0.8+
1999 01 16	704	0.6+	0.1+	2000 03 28	704	0.4-	0.3-	2000 04 08	704	0.2+	0.3+
1999 01 16	704	0.6+	0.0	2000 03 28	704	0.4+	0.1-				

2000 APR. 18

M.P.C. 40219

Residuals in seconds of arc

1997 08 01	684	0.7+	0.1-	2000 04 01	691	0.1+	0.1-	2000 04 03	699	0.5+	0.1-
1997 08 01	684	0.1+	0.1-	2000 04 01	691	0.1+	0.2-	2000 04 06	699	1.3+	0.4+
1997 08 04	684	0.5-	0.0	2000 04 01	691	0.1+	0.4-	2000 04 06	699	0.2+	0.6+
1997 08 04	684	0.3-	0.1+	2000 04 02	699	0.4-	0.5-	2000 04 06	699	0.2-	0.1+
2000 03 27	691	0.2-	0.4-	2000 04 02	699	0.1+	0.3-	2000 04 06	699	0.0	0.4+
2000 03 27	691	0.3-	0.2-	2000 04 02	699	0.3+	0.7+	2000 04 07	704	0.3+	0.1-
2000 03 27	691	0.3-	0.5-	2000 04 02	699	0.1-	0.2+	2000 04 07	704	0.6-	0.9+
2000 03 29	691	0.1-	0.3-	2000 04 03	699	0.2-	0.5-	2000 04 07	704	0.9+	0.2+
2000 03 29	691	0.1+	0.1-	2000 04 03	699	0.3-	0.4+	2000 04 07	704	0.7-	0.6-
2000 03 29	691	0.6+	0.6+	2000 04 03	699	0.7-	0.2+	2000 04 07	704	0.4-	0.6-

2000 FD₅ = 1998 XR₁₅

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	108.57172		(2000.0)		P		Q
<i>n</i>	0.25532282	ω	344.37912	+0.20276407		-0.96510818	
<i>a</i>	2.4607999	Ω	93.70392	+0.91527095		+0.12664075	
<i>e</i>	0.0580374	<i>i</i>	9.55743	+0.34808880		+0.22919057	
<i>P</i>	3.86	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	910	0.2-	0.2-	2000 04 04	704	0.1-	0.2-	2000 04 08	350	0.8+	0.4-
1998 12 16	910	0.1+	0.1-	2000 04 04	704	(2.0-	2.4+)	2000 04 09	699	0.3+	0.6+
1998 12 16	910	0.0	0.0	2000 04 07	699	0.5-	0.5+	2000 04 09	699	0.2+	0.2+
1998 12 16	910	0.0	0.1+	2000 04 07	699	0.4-	0.7+	2000 04 09	699	0.6+	0.2-
1998 12 16	910	0.1+	0.1+	2000 04 07	699	0.9-	0.4+	2000 04 09	699	0.1-	0.0
1998 12 16	910	0.0	0.2+	2000 04 07	699	0.5-	0.5+	2000 04 13	704	0.1+	0.4-
2000 03 29	411	1.5+	0.9-	2000 04 08	704	0.6-	0.0	2000 04 13	704	0.1-	0.6-
2000 03 29	411	0.2-	0.3-	2000 04 08	704	0.5-	0.1-	2000 04 13	704	0.1+	0.2-
2000 03 30	411	0.7-	0.0	2000 04 08	704	0.2+	0.3-	2000 04 13	704	0.2-	0.5+
2000 03 30	411	0.5-	0.2+	2000 04 08	350	0.5+	0.0	2000 04 13	704	0.2+	0.4-
2000 04 04	704	(2.5+	2.8-)	2000 04 08	350	0.9+	0.2+				

2000 FH₅ = 1980 WV₃ = 1998 UT₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	27.08818		(2000.0)		P		Q
<i>n</i>	0.21761044	ω	65.26946	-0.84128216		-0.51482174	
<i>a</i>	2.7374712	Ω	83.35867	+0.41630234		-0.81160046	
<i>e</i>	0.2290409	<i>i</i>	9.55808	+0.34487200		-0.27615804	
<i>P</i>	4.53	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1980 11 29	675	0.2+	0.1+	2000 03 29	411	0.4-	0.8+	2000 04 07	699	0.7-	0.1-
1980 11 29	675	0.0	0.0	2000 03 30	411	0.3+	1.3-	2000 04 08	704	0.0	0.2+
1980 12 01	675	0.3-	0.2+	2000 03 30	411	0.5-	1.5-	2000 04 08	704	0.2+	1.0+
1998 10 18	809	0.9+	0.5+	2000 04 02	860	1.5+	0.9+	2000 04 08	704	0.6-	0.6+
1998 10 18	809	0.1+	0.1+	2000 04 02	860	0.6+	0.3+	2000 04 08	350	1.2+	1.2-
1998 10 18	809	0.5-	0.6-	2000 04 02	860	1.4-	0.1-	2000 04 08	350	0.2+	0.0
1998 10 19	809	0.1-	0.1-	2000 04 04	704	1.3+	0.4+	2000 04 08	350	0.5+	0.3+
1998 10 19	809	0.0	0.5-	2000 04 04	704	0.3+	0.0	2000 04 09	699	0.4-	0.1+
1998 10 19	809	0.4-	0.6+	2000 04 04	704	0.5+	0.5+	2000 04 09	699	0.1+	0.1+
1998 11 11	704	(4.1-	3.9-)	2000 04 04	704	(2.6-	1.1-)	2000 04 09	699	0.4-	0.0
1998 11 11	704	(3.3-	2.8-)	2000 04 05	860	0.2-	0.4-	2000 04 09	699	0.2+	0.2+
1998 11 11	704	(3.8-	4.0-)	2000 04 05	860	0.8-	1.8-	2000 04 13	704	(0.6+	2.3+)
2000 02 08	704	(4.9+	0.0)	2000 04 05	860	0.7-	1.4-	2000 04 13	704	(2.0+	3.7+)
2000 02 08	704	(4.5+	0.2-)	2000 04 07	699	0.0	0.1-	2000 04 13	704	0.5+	1.4+
2000 02 08	704	(5.7+	0.3+)	2000 04 07	699	0.2+	0.3-	2000 04 13	704	0.6-	1.0+
2000 03 29	411	1.0-	0.4+	2000 04 07	699	0.1-	0.0				

2000 FJ₅ = 1976 UG = 1977 CL = 1995 BZ₁₆

Id. G. V. Williams, S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	40.35428		(2000.0)		P		Q
<i>n</i>	0.21793307	ω	348.78998	-0.57966020		-0.80415553	
<i>a</i>	2.7347689	Ω	136.46332	+0.76161852		-0.59210555	
<i>e</i>	0.2908399	<i>i</i>	11.01719	+0.28970898		-0.05239189	
<i>P</i>	4.52	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1976 10 24	809	0.1+	0.2-	1998 11 13	704	0.3+	0.2+	2000 04 05	860	0.0	0.5-
1976 10 24	809	0.6+	0.1-	1998 11 13	704	0.5-	1.1+	2000 04 05	860	0.6-	0.8-
1976 10 25	809	0.7+	0.6-	1998 11 13	704	0.6+	0.2-	2000 04 05	704	0.2+	0.1+
1976 10 31	809	0.6+	0.5-	1998 11 13	704	(2.7-	0.5+)	2000 04 05	704	0.4+	0.0
1976 10 31	809	1.1+	1.4-	1998 12 18	699	0.4-	0.4+	2000 04 05	704	0.4+	0.1+
1976 11 01	809	0.7-	0.2+	1998 12 18	699	0.5+	0.2-	2000 04 05	704	0.5+	0.2+
1976 11 01	809	0.9+	0.6-	1998 12 18	699	0.2-	0.3-	2000 04 05	704	1.2+	0.2+
1976 11 02	809	0.9+	0.3-	2000 01 08	699	0.2-	0.9+	2000 04 07	699	0.2-	0.1+
1976 11 02	809	0.1+	0.2+	2000 01 08	699	0.2-	0.2-	2000 04 07	699	0.4-	0.2+
1977 02 11	675	(6.8+	9.7-)	2000 01 08	699	0.8+	1.0+	2000 04 07	699	0.3-	0.3+
1977 02 12	675	0.9-	0.1+	2000 02 08	704	0.4-	1.0+	2000 04 07	699	0.4-	0.2+
1977 02 14	675	0.8-	0.4+	2000 02 08	704	0.2-	0.6+	2000 04 08	704	0.3+	0.2-
1995 01 27	399	0.5-	0.5-	2000 02 08	704	1.7+	0.0	2000 04 08	704	0.0	0.3-
1995 01 27	399	0.8-	1.9-	2000 03 08	704	1.0+	0.1+	2000 04 08	704	0.3-	0.3+
1995 01 28	399	0.3+	1.3+	2000 03 08	704	0.1+	0.5+	2000 04 08	350	0.4+	0.7-
1995 01 28	399	1.1-	0.7+	2000 03 08	704	0.3+	0.2+	2000 04 08	350	0.8-	1.1-
1997 06 29	691	0.6-	0.8-	2000 03 08	704	0.2+	0.7+	2000 04 09	699	0.5-	0.1+
1997 06 29	691	0.6-	0.4-	2000 03 08	704	0.6+	1.5+	2000 04 09	699	0.6-	0.3+
1997 06 29	691	0.5-	0.5-	2000 03 29	411	(0.6+	4.7-)	2000 04 09	699	0.7-	0.1+
1997 09 23	691	0.7-	0.5+	2000 03 29	411	(0.6+	3.7-)	2000 04 09	699	0.6-	0.0
1997 09 23	691	0.7-	0.1+	2000 03 30	411	0.3-	0.4+	2000 04 13	704	0.5+	0.0
1997 09 23	691	0.6-	0.0	2000 03 30	411	0.5-	0.2+	2000 04 13	704	0.7+	0.4-
1998 09 28	699	0.3-	0.7+	2000 04 02	860	0.8-	0.2-	2000 04 13	704	0.5+	0.3-
1998 09 28	699	0.3+	0.4+	2000 04 02	860	0.3-	0.4-	2000 04 13	704	0.3+	0.1+
1998 09 28	699	0.2-	0.6+	2000 04 02	860	0.2+	0.0	2000 04 13	704	0.4+	0.3-
1998 11 13	704	1.2+	1.6+	2000 04 05	860	1.3+	0.7-				

2000 FP₅ = 1995 DO₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	241.15281		(2000.0)		P		Q
<i>n</i>	0.21052259	ω	311.35760	+0.71492293		+0.69918713	
<i>a</i>	2.7985747	Ω	4.28857	-0.62104967		+0.63811837	
<i>e</i>	0.0900939	<i>i</i>	3.64160	-0.32122034		+0.32240085	
<i>P</i>	4.68	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1995 02 24	691	0.0	0.6+	2000 03 25	691	0.2-	0.0	2000 04 05	704	0.1+	0.6-
1995 02 24	691	0.0	0.2+	2000 03 25	691	0.4+	0.2+	2000 04 05	704	0.6+	0.9+
1995 02 24	691	0.1-	0.5+	2000 03 25	691	0.1+	0.0	2000 04 05	704	0.3-	0.8-
1995 03 02	691	0.5+	0.3-	2000 03 30	691	0.2-	0.5-	2000 04 05	704	0.2+	0.3+
1995 03 02	691	0.1-	0.5-	2000 03 30	691	0.1-	0.6-	2000 04 05	704	0.9-	1.3+
1995 03 02	691	0.2-	0.4-	2000 03 30	691	0.2+	0.2-				

2000 FU₅ = 1994 RS₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	10.29114		(2000.0)		P		Q
<i>n</i>	0.27207699	ω	160.81208	-0.99217591		-0.12246982	
<i>a</i>	2.3587116	Ω	12.22919	+0.09425169		-0.86214519	
<i>e</i>	0.0525283	<i>i</i>	6.57401	+0.08187539		-0.49163687	
<i>P</i>	3.62	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1994 09 05	691	0.6+	0.1−	2000 03 30	691	0.1−	0.7−	2000 04 06	704	0.5+	0.4+
1994 09 05	691	0.0	0.0	2000 04 05	704	0.1+	0.1+	2000 04 06	704	0.2−	0.0
1994 09 05	691	0.0	0.0	2000 04 05	704	0.4+	0.6+	2000 04 06	704	1.1+	1.3+
1994 09 09	691	0.1+	0.5+	2000 04 05	704	0.2+	0.5+	2000 04 07	691	0.6−	0.4−
1994 09 09	691	0.0	0.1−	2000 04 05	704	0.5+	0.1+	2000 04 07	691	0.8−	0.4−

M.P.C. 40220

2000 APR. 18

1994 09 09	691	0.5−	0.3−	2000 04 05	704	0.4+	0.3+	2000 04 07	691	0.7−	0.4−
2000 03 25	691	0.3−	0.2+	2000 04 06	704	0.3−	0.4−	2000 04 08	557	0.2−	0.4+
2000 03 25	691	0.5−	0.0	2000 04 06	704	1.1+	0.3−	2000 04 08	557	0.4+	0.2−
2000 03 25	691	0.7−	0.0	2000 04 06	704	0.1+	0.5−	2000 04 08	557	0.1−	0.3−
2000 03 30	691	0.4−	0.0	2000 04 06	704	0.9+	0.5+	2000 04 08	557	0.1−	0.4−
2000 03 30	691	0.4−	0.0	2000 04 06	704	0.2−	0.6−				

2000 FC₆ = 1999 CZ₁₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	206.55926		(2000.0)	P	Q		
<i>n</i>	0.17230571	ω	177.71029	+0.99356843	+0.11322909		
<i>a</i>	3.1984257	Ω	175.78784	−0.10409961	+0.91678302		
<i>e</i>	0.1614142	<i>i</i>	0.76157	−0.04455392	+0.38299879		
<i>P</i>	5.72	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 08 19	566	0.3+	0.6−	2000 03 25	691	0.9−	0.4−	2000 04 06	704	0.0	0.3−
1996 08 19	566	0.3+	0.7−	2000 03 25	691	0.1+	0.1−	2000 04 06	699	0.6−	0.5−
1996 08 19	566	0.8+	0.9−	2000 03 25	691	0.1+	0.2−	2000 04 06	704	0.2+	1.2+
1996 09 13	566	0.3−	0.3−	2000 03 30	691	0.1+	0.1−	2000 04 06	704	0.8+	0.3−
1996 09 13	566	0.0	0.4−	2000 03 30	691	0.4+	0.2−	2000 04 06	699	0.8−	0.4+
1996 09 13	566	0.1+	0.3−	2000 03 30	691	0.1+	0.1−	2000 04 06	704	0.6+	0.6+
1999 02 07	691	0.4+	0.2−	2000 04 05	704	0.8+	0.5−	2000 04 06	699	0.6−	0.3−
1999 02 07	691	0.4+	0.3−	2000 04 05	704	0.6+	0.1+	2000 04 06	704	0.6+	0.7+
1999 02 07	691	0.5+	0.3−	2000 04 05	704	0.0	0.5−	2000 04 13	691	0.5−	0.2−
1999 02 11	691	1.4−	0.5−	2000 04 05	704	0.1+	0.2−	2000 04 13	691	0.4−	0.3−
1999 02 11	691	0.6−	1.1−	2000 04 05	704	0.1+	0.5+	2000 04 13	691	0.3−	0.3−
1999 02 11	691	0.5−	0.9−	2000 04 06	699	0.7−	0.2+				

2000 FK₆ = 1996 HT₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	18.25078		(2000.0)	P	Q		
<i>n</i>	0.23922557	ω	138.99784	−0.94371137	−0.32994040		
<i>a</i>	2.5699873	Ω	21.77088	+0.28461289	−0.84605089		
<i>e</i>	0.1511701	<i>i</i>	3.61926	+0.16853589	−0.41873288		
<i>P</i>	4.12	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 04 17	809	0.5+	0.5−	2000 04 06	699	0.2+	1.0+	2000 04 07	704	0.2+	0.3−
1996 04 17	809	(2.3−	1.8−)	2000 04 06	704	0.6+	0.4−	2000 04 07	704	0.3+	0.0
1996 04 17	809	1.4−	1.0−	2000 04 06	704	0.4−	0.4−	2000 04 07	704	0.6−	0.8+
1996 04 18	809	0.5−	0.8+	2000 04 06	704	0.2+	0.9−	2000 04 08	704	0.7+	1.6+
1996 04 18	809	0.9+	0.3+	2000 04 06	699	0.6+	0.1−	2000 04 08	704	0.4−	0.1−
1996 04 18	809	0.5+	0.6+	2000 04 06	704	0.3+	0.3−	2000 04 08	704	0.5−	0.3−
2000 03 25	691	0.3−	0.1+	2000 04 06	704	0.5+	0.2−	2000 04 08	704	0.1−	0.8+
2000 03 25	691	0.3−	0.2+	2000 04 06	704	0.5−	0.6−	2000 04 08	704	1.3−	1.0+
2000 03 25	691	0.1−	0.2+	2000 04 06	704	0.3−	0.7−	2000 04 10	704	1.2+	0.1−
2000 03 30	691	0.1−	0.1−	2000 04 06	704	0.3+	1.1−	2000 04 10	704	0.3−	0.3+
2000 03 30	691	0.1+	0.1−	2000 04 06	704	0.1−	0.9−	2000 04 10	704	0.3+	0.3−
2000 03 30	691	0.1−	0.4+	2000 04 06	699	0.7+	0.6+	2000 04 10	704	0.5+	0.6+
2000 04 05	704	0.7+	0.1−	2000 04 06	704	0.2+	0.5−	2000 04 10	704	1.8+	0.0
2000 04 05	704	0.5+	0.4+	2000 04 06	704	0.2−	1.0−	2000 04 13	691	1.3−	0.1−
2000 04 05	704	1.0+	0.4+	2000 04 06	704	0.4+	0.1+	2000 04 13	691	1.3−	0.1−
2000 04 05	704	0.1+	0.1+	2000 04 06	699	0.2−	0.7+	2000 04 13	691	1.4−	0.2−
2000 04 05	704	0.0	0.7+	2000 04 06	704	0.3−	0.2+				
2000 04 06	704	0.9−	0.6−	2000 04 07	704	0.3−	0.7−				

2000 FN₆ = 1995 FO₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	94.76548		(2000.0)	P	Q		
<i>n</i>	0.21090519	ω	63.46403	+0.07187087	−0.99673116		
<i>a</i>	2.7951892	Ω	22.50613	+0.87737657	+0.04558242		
<i>e</i>	0.0890198	<i>i</i>	5.53180	+0.47438901	+0.06670263		
<i>P</i>	4.67	<i>H</i>	14.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 03 23	691	0.4+	0.2−	2000 04 05	704	0.4+	0.3+	2000 04 07	704	0.6+	2.0+
1995 03 23	691	0.2+	0.2−	2000 04 05	704	0.1+	0.0	2000 04 07	704	0.0	0.1−
1995 03 23	691	0.2−	0.1+	2000 04 06	704	0.1−	0.1+	2000 04 07	704	1.2+	0.8−
1995 03 23	033	0.3−	0.2+	2000 04 06	699	0.7+	0.6+	2000 04 08	704	1.2+	0.1−
1995 03 23	033	0.7−	0.9+	2000 04 06	704	0.3+	0.8+	2000 04 08	704	0.9+	1.1−
1995 03 29	691	0.2+	0.4−	2000 04 06	704	0.3+	0.4−	2000 04 08	704	0.4+	0.4−
1995 03 29	691	0.3+	0.1−	2000 04 06	699	0.2+	0.3−	2000 04 08	704	0.6+	0.9+
1995 03 29	691	0.1+	0.4−	2000 04 06	704	1.1+	0.5−	2000 04 08	704	0.6+	0.1+
2000 03 25	691	0.3−	0.2−	2000 04 06	704	0.6+	0.2+	2000 04 10	704	0.4−	0.2+
2000 03 25	691	0.3−	0.2−	2000 04 06	704	0.1+	0.2−	2000 04 10	704	0.0	1.3−
2000 03 25	691	0.3−	0.2−	2000 04 06	704	0.2−	0.0	2000 04 10	704	0.3−	0.1+
2000 03 30	691	0.2−	0.2−	2000 04 06	699	0.2+	0.8−	2000 04 10	704	0.6−	0.6+
2000 03 30	691	0.2−	0.3−	2000 04 06	704	0.1+	0.2+	2000 04 10	704	0.2−	0.4+
2000 03 30	691	0.2−	0.2−	2000 04 06	704	0.8+	0.2−	2000 04 10	704	0.1−	0.6−
2000 04 02	699	0.6−	0.7+	2000 04 06	699	0.4+	0.8−	2000 04 10	704	0.1+	0.1−
2000 04 02	699	1.2−	0.0	2000 04 06	704	0.1+	0.3+	2000 04 10	704	0.3−	0.4−
2000 04 02	699	0.4−	0.2−	2000 04 07	704	0.8−	0.6−	2000 04 10	704	0.0	0.2+
2000 04 02	699	0.7−	0.6+	2000 04 07	704	0.1−	0.7−	2000 04 13	691	1.2−	0.0
2000 04 05	704	0.1−	0.4+	2000 04 07	704	0.6+	1.5+	2000 04 13	691	1.9−	0.4+
2000 04 05	704	0.1−	0.1−	2000 04 07	704	0.3−	0.1+	2000 04 13	691	1.2−	0.2+
2000 04 05	704	0.0	0.4−	2000 04 07	704	0.3+	0.1+				

2000 FH₇ = 1997 XE₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	190.18601		(2000.0)	P	Q		
<i>n</i>	0.19948982	ω	176.46450	+0.99913129	+0.04167199		
<i>a</i>	2.9008296	Ω	181.14733	−0.03861944	+0.92297348		
<i>e</i>	0.0768721	<i>i</i>	0.92474	−0.01565881	+0.38260082		
<i>P</i>	4.94	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 12 03	910	0.3−	0.6+	2000 03 29	691	0.9−	0.1−	2000 04 05	704	0.7+	1.8−
1997 12 03	910	0.3−	0.4+	2000 03 30	691	0.3+	0.2−	2000 04 06	691	0.3−	0.2−
1997 12 03	910	0.3−	0.6+	2000 03 30	691	1.0+	0.8−	2000 04 06	691	0.3−	0.2+
1997 12 05	910	0.2+	0.5−	2000 03 30	691	0.2+	0.1−	2000 04 06	704	0.8−	0.9+
1997 12 05	910	0.2+	0.5−	2000 04 05	704	0.5+	0.5+	2000 04 06	691	0.4−	0.2+
1997 12 05	910	0.4+	0.5−	2000 04 05	704	0.6+	0.1−	2000 04 06	704	0.2+	0.2−
2000 03 29	691	0.7−	0.1+	2000 04 05	704	0.2+	0.2−	2000 04 06	704	0.5−	1.0+
2000 03 29	691	0.6−	0.1+	2000 04 05	704	0.5+	0.1+	2000 04 06	704	0.3+	0.7+

2000 FW₇ = 1998 XP₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	42.51345		(2000.0)	P	Q		
<i>n</i>	0.19140065	ω	55.50016	−0.75689237	−0.60578930		
<i>a</i>	2.9819964	Ω	85.95494	+0.48948283	−0.77409296		
<i>e</i>	0.0446424	<i>i</i>	14.23108	+0.43303637	−0.18384620		
<i>P</i>	5.15	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 14	704	0.5+	1.8−	2000 03 12	699	0.8−	0.2+	2000 04 03	704	1.1−	0.4+
1998 12 14	704	0.1+	0.6−	2000 03 29	704	0.0	0.4+	2000 04 03	704	0.2+	0.2+
1998 12 14	704	1.3+	0.4+	2000 03 29	704	0.2−	0.5+	2000 04 03	704	0.7+	0.5+
1998 12 14	704	1.2−	1.1+	2000 03 29	704	0.7+	0.1−	2000 04 08	704	0.2−	0.4+
1998 12 17	704	1.1−	0.9−	2000 03 29	704	0.6−	0.2+	2000 04 08	704	0.5+	0.7−
1998 12 17	704	1.4+	0.3+	2000 03 29	704	0.0	0.5−	2000 04 08	704	1.5−	0.2−
1998 12 17	704	(2.4−	1.1−)	2000 03 30	704	0.4+	0.7−	2000 04 08	704	0.2+	0.9−
1998 12 17	704	1.1−	1.6+	2000 03 30	704	0.3+	0.4+	2000 04 08	704	0.3+	0.1+
1998 12 17	704	(4.1−	0.3+)	2000 03 30	704	0.1−	0.9+	2000 04 14	704	1.1+	0.5−
2000 03 12	699	0.0	0.5−	2000 03 30	704	0.4−	0.1−	2000 04 14	704	0.1+	0.0
2000 03 12	699	0.5+	1.0−	2000 03 30	704	0.4−	1.3+	2000 04 14	704	0.1+	0.3−
2000 03 12	699	0.1−	0.6−	2000 04 03	704	0.4+	0.2−	2000 04 14	704	0.1−	0.6+

2000 APR. 18

M.P.C. 40221

2000 FL₈ = 1981 JS₃ = 1998 XO₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	130.69776		(2000.0)	P	Q
<i>n</i>	0.25792401	ω	14.41642	+0.44315909	-0.89403655
<i>a</i>	2.4442270	Ω	49.32324	+0.81366122	+0.37042297
<i>e</i>	0.0740966	<i>i</i>	4.96524	+0.37625182	+0.25196323
<i>P</i>	3.82	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1981 05 08	675	1.1+	0.6-	1998 12 17	704	1.1+	0.3+	2000 04 05	704	0.2+	0.2+
1981 05 09	675	1.4-	0.0	2000 03 28	734	0.2+	0.8-	2000 04 05	704	0.5+	0.5+
1998 12 14	704	0.2-	0.1-	2000 03 28	734	0.4-	0.6-	2000 04 05	704	0.6+	0.5+
1998 12 14	704	0.4+	1.3-	2000 03 28	734	0.0	1.2-	2000 04 05	704	0.9+	0.9+
1998 12 14	704	0.4-	1.2-	2000 03 28	734	0.3-	0.1-	2000 04 06	704	0.5+	0.3+
1998 12 14	704	0.4-	0.1+	2000 03 31	734	0.1-	0.6+	2000 04 06	704	0.1+	0.4+
1998 12 14	704	0.4-	0.1-	2000 03 31	734	0.1+	0.3+	2000 04 06	704	0.0	0.6+
1998 12 16	704	1.2-	0.2+	2000 03 31	734	0.4+	0.1-	2000 04 06	704	0.2+	1.3+
1998 12 16	704	0.0	0.1-	2000 03 31	734	0.3+	0.3+	2000 04 06	704	0.6+	0.8+
1998 12 16	704	0.1-	0.2+	2000 04 02	734	0.2-	0.5-	2000 04 07	704	0.2+	0.9-
1998 12 16	704	0.3-	0.1-	2000 04 02	734	1.3-	0.0	2000 04 07	704	0.3+	0.3+
1998 12 17	704	0.8+	0.0	2000 04 02	734	0.8-	0.1-	2000 04 07	704	0.4-	0.0
1998 12 17	704	0.1+	0.2+	2000 04 04	734	1.3-	0.7-	2000 04 07	704	0.3+	0.3-
1998 12 17	704	0.4+	1.9+	2000 04 04	734	0.1+	0.9-	2000 04 07	704	0.1+	0.2+
1998 12 17	704	0.2+	0.2-	2000 04 04	734	0.7-	0.8-				

2000 FO₈ = 1971 QA₂ = 1985 XC₃ = 1994 PV₁

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.74996		(2000.0)	P	Q
<i>n</i>	0.30020032	ω	163.19901	+0.72141239	+0.69208470
<i>a</i>	2.2089978	Ω	152.95687	-0.64131106	+0.68083044
<i>e</i>	0.1637697	<i>i</i>	3.04399	-0.26131261	+0.23976794
<i>P</i>	3.28	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1971 08 19	808	0.0	0.1-	2000 03 25	046	0.0	0.3+	2000 04 06	046	0.6-	0.1-
1985 12 14	675(42.2-	0.4-)		2000 03 25	046	0.0	0.4-	2000 04 07	704	0.2-	0.6-
1985 12 14	675(37.0-	1.0-)		2000 04 01	046	0.6+	0.2+	2000 04 07	704	(2.8+	0.3-)
1994 08 11	894	1.3+	0.2+	2000 04 01	046	0.4+	0.0	2000 04 07	704	0.2+	0.6-
1994 08 11	894	0.6+	0.0	2000 04 01	046	0.4+	0.1-	2000 04 07	704	0.6-	0.3-
1994 08 15	894	1.8-	0.0	2000 04 01	046	0.7+	0.0	2000 04 07	704	0.7-	0.4+
1994 08 15	894	0.3-	0.2-	2000 04 01	046	0.3+	0.2-	2000 04 08	704	0.2-	0.1-
1994 08 16	894	0.7+	0.3+	2000 04 01	046	0.3+	0.2-	2000 04 08	704	0.2-	0.5+
1994 08 16	894	0.5-	0.1-	2000 04 02	860	0.6-	1.1-	2000 04 08	704	0.4+	1.0+
2000 03 14	703	0.0	0.1-	2000 04 02	860	0.5+	1.7+	2000 04 08	704	0.7+	0.8+
2000 03 14	703	0.4-	0.3+	2000 04 02	860	1.2+	0.1+	2000 04 09	046	0.2+	0.6-
2000 03 14	703	0.2-	0.3+	2000 04 03	046	0.0	0.1+	2000 04 09	046	0.2+	0.0
2000 03 14	703	0.5+	0.0	2000 04 03	046	0.2+	0.1-	2000 04 09	046	0.1-	0.1-
2000 03 25	046	0.4+	0.2-	2000 04 03	046	0.0	0.1-	2000 04 14	704	0.6-	0.2-
2000 03 25	046	0.1+	0.1-	2000 04 03	046	0.3-	0.2-	2000 04 14	704	0.1+	0.1+
2000 03 25	046	0.0	0.3+	2000 04 06	046	0.7-	0.2-	2000 04 14	704	0.2-	0.2-
2000 03 25	046	0.1+	0.0	2000 04 06	046	0.4-	0.2-	2000 04 14	704	0.0	0.3-
2000 03 25	046	0.3-	0.1-	2000 04 06	046	0.3-	0.2-	2000 04 14	704	0.7-	0.4+

2000 FS₉ = 1996 FP₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	231.76134		(2000.0)	P	Q
<i>n</i>	0.26011139	ω	301.04128	+0.85351329	+0.52092080
<i>a</i>	2.4305047	Ω	27.57054	-0.46838624	+0.77751717
<i>e</i>	0.1973804	<i>i</i>	1.54928	-0.22831864	+0.35229046
<i>P</i>	3.79	<i>H</i>	15.8	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1996 03 18	691	0.5+	0.3+	2000 03 30	691	0.1+	0.3-	2000 04 05	704	1.2+	0.7-
1996 03 18	691	0.1+	0.4+	2000 04 01	691	0.2-	0.6-	2000 04 06	704	0.7-	0.3-

1996 03 18	691	0.2+	0.8+	2000 04 01	691	0.4-	0.5-	2000 04 06	704	0.5-	0.1+
1996 03 27	691	0.3-	0.6-	2000 04 01	691	0.5-	0.3-	2000 04 06	704	0.1+	0.3+
1996 03 27	691	0.2-	0.6-	2000 04 05	704	0.0	0.2+	2000 04 06	704	0.3-	1.1+
1996 03 27	691	0.3-	0.3-	2000 04 05	704	0.1-	0.3+	2000 04 06	704	0.7+	1.2+
2000 03 30	691	0.1-	0.3-	2000 04 05	704	0.3+	0.2-				
2000 03 30	691	0.1-	0.2-	2000 04 05	704	0.7+	0.2+				

2000 FG₁₀ = 1998 XG₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	269.56797		(2000.0)	P	Q
<i>n</i>	0.27188411	ω	217.75423	+0.34137030	+0.92505540
<i>a</i>	2.3598270	Ω	72.75331	-0.81431271	+0.37956372
<i>e</i>	0.0769645	<i>i</i>	10.04321	-0.46942638	+0.01427887
<i>P</i>	3.63	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	0.5+	0.5+	2000 03 30	596	0.6+	1.2-	2000 04 06	596	0.1-	0.6+
1998 12 14	704	0.5+	0.6+	2000 03 30	596	0.9-	0.7-	2000 04 06	596	0.4-	0.3-
1998 12 14	704	0.4-	0.3-	2000 03 30	596	0.4-	0.3+	2000 04 07	699	0.1+	0.1-
1998 12 14	704	0.8-	0.3-	2000 04 01	596	0.2-	0.6+	2000 04 07	699	0.1+	0.2-
1998 12 16	704	0.4+	0.7-	2000 04 01	596	0.3-	1.0+	2000 04 07	699	0.0	0.1-
1998 12 16	704	0.4+	0.1-	2000 04 01	596	0.4-	0.5+	2000 04 07	699	0.1+	0.0
1998 12 16	704	0.3-	0.2-	2000 04 04	704	0.5+	0.3+	2000 04 10	608	0.6-	0.2-
1998 12 16	704	0.3+	0.0	2000 04 04	704	0.6+	0.4+	2000 04 10	608	0.5-	0.2-
1998 12 16	704	1.1-	0.6-	2000 04 04	704	0.8+	0.4+	2000 04 10	608	0.7-	0.2-
1998 12 17	704	0.3+	0.1-	2000 04 04	704	0.5+	0.5-	2000 04 13	704	0.1-	0.3-
1998 12 17	704	0.2-	0.0	2000 04 04	704	0.6+	0.1-	2000 04 13	704	0.4+	0.8+
1998 12 17	704	0.4+	1.3+	2000 04 05	596	0.2-	0.7-	2000 04 13	704	0.0	0.1-
1998 12 17	704	0.2-	0.2-	2000 04 05	596	0.1+	0.5+	2000 04 13	704	0.3+	0.3+
2000 03 30	596	0.3-	0.2-	2000 04 06	596	0.2-	0.3-	2000 04 13	704	0.3+	0.2-

2000 FO₁₀ = 1988 JP₁

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	118.58303		(2000.0)	P	Q
<i>n</i>	1.23745756	ω	172.37304	+0.93286310	-0.34054129
<i>a</i>	0.8592427	Ω	208.42841	+0.31611034	+0.93023206
<i>e</i>	0.5947910	<i>i</i>	14.28494	+0.17274460	+0.13674774
<i>P</i>	0.80	<i>H</i>	17.6	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1988 05 11	413	0.0	1.2+	2000 04 01	428	0.5-	0.5+	2000 04 07	704	0.0	0.9+
1988 05 11	413	0.0	0.9-	2000 04 01	428	0.2-	0.6+	2000 04 07	704	0.1-	0.4+
2000 03 30	704	0.3+	0.9-	2000 04 02	860	0.4+	0.2+	2000 04 07	704	0.2+	0.8+
2000 03 30	704	0.3+	0.1+	2000 04 02	860	0.6+	0.2-	2000 04 07	704	0.1+	0.6+
2000 03 30	704	0.1+	0.2-	2000 04 02	860	0.3+	0.2-	2000 04 08	402	0.4+	0.3-
2000 03 30	704	0.2-	1.8-	2000 04 02	860	0.3+	0.7+	2000 04 08	402	0.5+	0.7-
2000 03 31	670	0.6-	0.5+	2000 04 03	670	0.6+	0.1+	2000 04 08	402	0.3+	1.1-
2000 03 31	670	1.1-	0.1-	2000 04 03	670	0.6-	0.1-	2000 04 10	670	0.2+	0.4-
2000 03 31	428	0.7+	0.3+	2000 04 06	704	0.3+	0.2+	2000 04 10	670	0.0	0.2-
2000 03 31	428	0.1-	0.2+	2000 04 06	704	0.3+	0.1+	2000 04 13	649	0.8-	0.1+
2000 03 31	046	0.9+	0.4-	2000 04 06	704	0.6+	0.6+	2000 04 13	649	0.5+	0.1+
2000 03 31	046	0.3-	0.0	2000 04 06	704	0.4+	0.6+	2000 04 13	649	0.6+	0.1+
2000 03 31	046	0.8+	0.3+	2000 04 06	704	1.2+	0.4+	2000 04 13	118	0.7+	0.1+
2000 03 31	046	0.6-	0.1+	2000 04 06	360	0.2+	0.2+	2000 04 13	118	0.9+	0.0
2000 03 31	046	0.8+	0.5+	2000 04 06	360	0.1-	0.2+	2000 04 14	860	0.4+	0.7-
2000 03 31	046	0.2+	0.6-	2000 04 06	360	0.2-	0.0	2000 04 14	860	0.9-	1.2-
2000 03 31	046	0.4+	0.6+	2000 04 06	611	0.4+	0.7+	2000 04 14	860	0.8-	0.9-
2000 04 01	620	0.3-	0.6-	2000 04 06	611	0.4-	0.6-	2000 04 14	118	0.1+	0.2+
2000 04 01	620	1.0-	0.1+	2000 04 07	860	1.1-	0.1+	2000 04 14	118	0.1+	0.1-
2000 04 01	620	0.4-	0.3-	2000 04 07	860	0.9-	0.0	2000 04 15	739	(1.8+	2.2-)
2000 04 01	670	0.6-	0.5-	2000 04 07	860	0.6-	0.1-	2000 04 15	739	0.6-	0.8+
2000 04 01	670	1.0-	0.8+	2000 04 07	860	0.8-	0.1-				
2000 04 01	670	0.4-	0.7-	2000 04 07	704	0.4+	0.3+				

2000 FS₁₀ = 1999 CY₁₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.22966		(2000.0)	P		Q		Williams	
<i>n</i>	0.19881349	ω	258.00399	−0.26519226	+0.96419016				
<i>a</i>	2.9074047	Ω	356.61252	−0.86205191	−0.23859478				
<i>e</i>	0.0929120	<i>i</i>	3.12700	−0.43190227	−0.11580093				
<i>P</i>	4.96	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	6		
Residuals in seconds of arc									
1999 02 06	568	0.7−	0.7+	2000 04 01	428	0.0	0.0	2000 04 08	704 0.7− 0.9+
1999 02 06	568	1.3−	0.5+	2000 04 01	428	0.6+	0.7+	2000 04 08	704 0.6+ 0.7+
1999 02 07	568	0.2+	0.3+	2000 04 06	704	0.9−	0.2−	2000 04 08	704 1.4+ 0.4+
1999 02 07	568	(0.4−	3.1+)	2000 04 06	704	0.2−	0.5−	2000 04 08	704 0.0 0.2+
1999 02 08	568	1.1+	1.3−	2000 04 06	704	0.5−	0.3−	2000 04 08	428 0.2+ 1.5−
1999 02 08	568	0.7+	0.3−	2000 04 06	704	0.5−	0.0	2000 04 08	428 0.5+ 0.9−
2000 03 31	428	0.5+	1.5+	2000 04 06	704	1.2−	1.7−		
2000 03 31	428	0.9+	0.0	2000 04 08	704	0.7−	0.7+		

2000 FU₁₁ = 1998 SU₁₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	73.67018		(2000.0)	P		Q		Williams	
<i>n</i>	0.21465209	ω	29.26163	+0.46444525	−0.87537759				
<i>a</i>	2.7625658	Ω	33.58525	+0.75804635	+0.31462285				
<i>e</i>	0.1779804	<i>i</i>	14.03799	+0.45788245	+0.36705113				
<i>P</i>	4.59	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc									
1996 04 20	691	0.3+	0.3+	1998 09 27	704	0.4−	0.5+	2000 03 12	704 0.2− 0.7−
1996 04 20	691	0.3+	0.5+	1998 09 27	704	0.3−	0.3−	2000 03 12	704 0.1+ 0.4+
1996 04 20	691	0.0	0.1+	1998 11 06	699	0.0	1.0+	2000 03 12	704 0.2− 0.5+
1998 09 26	704	0.7+	0.4+	1998 11 06	699	0.7+	0.0	2000 03 12	704 0.7− 0.2+
1998 09 26	704	0.1−	0.4+	1998 11 06	699	0.5+	0.3+	2000 03 28	704 0.2− 0.4−
1998 09 26	704	0.3+	0.1−	2000 03 04	704	0.1−	0.2+	2000 03 28	704 0.0 0.3−
1998 09 26	704	0.0	0.2−	2000 03 04	704	0.4−	0.2+	2000 03 28	704 0.3− 0.1−
1998 09 26	704	0.5−	0.1+	2000 03 04	704	0.2+	0.1+	2000 04 02	704 0.7+ 0.1−
1998 09 27	704	1.5−	1.7−	2000 03 04	704	0.3−	0.2+	2000 04 02	704 0.0 0.0
1998 09 27	704	0.1+	0.3+	2000 03 04	704	0.1−	0.1−	2000 04 02	704 1.6+ 0.0
1998 09 27	704	0.1−	0.2+	2000 03 12	704	0.4+	0.4+		

2000 FG₁₂ = 1976 JF₅ = 1998 TS₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	335.99972		(2000.0)	P		Q		Williams	
<i>n</i>	0.24225597	ω	149.67511	−0.97770993	+0.15012843				
<i>a</i>	2.5485103	Ω	39.81323	−0.20676083	−0.81001906				
<i>e</i>	0.1072861	<i>i</i>	13.25250	+0.03651368	−0.56686028				
<i>P</i>	4.07	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc									
1976 05 03	809	0.0	0.0	1998 11 16	691	0.2−	0.2−	2000 03 12	704 0.1− 0.4+
1998 10 12	691	0.0	0.0	1998 11 19	691	0.0	0.3−	2000 03 12	704 0.2− 0.2+
1998 10 12	691	0.0	0.2+	1998 11 19	691	0.0	0.2−	2000 03 12	704 0.1− 0.5+
1998 10 12	691	0.2−	0.1+	1998 11 19	691	0.0	0.0	2000 03 12	704 0.3+ 0.8+
1998 10 18	691	0.2+	0.2+	2000 01 06	704	0.3+	0.2+	2000 03 12	704 0.1+ 1.1+
1998 10 18	699	0.9−	0.2+	2000 01 06	704	0.7+	0.1−	2000 03 28	704 0.2+ 0.0
1998 10 18	691	0.1+	0.1+	2000 01 06	704	1.1+	1.4−	2000 03 28	704 0.5+ 0.6−
1998 10 18	699	0.8+	1.4+	2000 01 31	704	0.3−	0.3+	2000 03 28	704 0.1+ 0.5−
1998 10 18	691	0.5+	0.1−	2000 01 31	704	0.0	0.5+	2000 04 02	704 0.3− 0.2+
1998 10 18	699	(2.2−	0.1+)	2000 01 31	704	0.0	0.4+	2000 04 02	704 0.0 0.6+
1998 11 11	704	0.8+	0.1−	2000 01 31	704	1.5−	0.7−	2000 04 02	704 0.4+ 0.7+
1998 11 11	704	0.6−	0.9−	2000 03 04	704	0.1+	0.1−	2000 04 13	608 0.2− 0.7−
1998 11 11	704	(2.1+	0.0)	2000 03 04	704	0.2−	0.4−	2000 04 13	608 0.1+ 0.9−
1998 11 11	704	(0.5+	2.2−)	2000 03 04	704	0.1−	0.1−	2000 04 13	608 0.3− 0.4−
1998 11 16	691	0.2−	0.2−	2000 03 04	704	0.1+	0.0		
1998 11 16	691	0.3−	0.4−	2000 03 04	704	0.4−	0.2−		

2000 FK₁₂ = 1994 LV₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	74.01925		(2000.0)	P		Q		Williams	
<i>n</i>	0.29491361	ω	357.01985	+0.30284781	−0.93778634				
<i>a</i>	2.2353190	Ω	75.30446	+0.87798681	+0.20522188				
<i>e</i>	0.1374020	<i>i</i>	10.11163	+0.37070522	+0.28007276				
<i>P</i>	3.34	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4		
Residuals in seconds of arc									
1994 06 03	809	1.1+	1.8+	2000 03 04	704	0.1−	0.6−	2000 03 26	699 0.4− 0.4+
1994 06 03	809	0.5+	1.0+	2000 03 04	704	0.2+	0.2−	2000 03 28	704 0.2+ 0.4−
1994 06 03	809	(3.1+	2.0+)	2000 03 04	704	0.2+	0.5−	2000 03 28	704 0.2+ 0.4+
1994 06 04	809	1.1−	1.3−	2000 03 04	704	0.0	0.4−	2000 03 28	704 0.6− 1.8+
1994 06 04	809	0.3−	0.8−	2000 03 12	704	0.1+	0.4−	2000 04 02	704 0.1− 0.2+
1994 06 04	809	0.3−	0.8−	2000 03 12	704	0.0	0.2−	2000 04 02	704 0.4+ 0.0
2000 02 03	704	0.3+	0.1+	2000 03 12	704	0.2−	0.2+	2000 04 02	704 0.9+ 0.7+
2000 02 03	704	0.2+	0.3−	2000 03 12	704	0.4−	0.4+	2000 04 02	704 0.8+ 0.2−
2000 02 03	704	0.3+	0.0	2000 03 12	704	0.1−	0.4+	2000 04 12	608 0.2+ 0.4−
2000 02 03	704	0.2−	0.3+	2000 03 26	699	0.9−	0.1+	2000 04 12	608 0.0 1.0−
2000 02 03	704	0.2−	0.1+	2000 03 26	699	0.9−	0.4+	2000 04 12	608 0.4+ 0.2+
2000 03 04	704	0.1−	0.8−	2000 03 26	699	0.6−	0.1−		

2000 FL₁₂ = 1999 BW₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	192.84658		(2000.0)	P		Q		Williams	
<i>n</i>	0.19635407	ω	243.69514	+0.88112933	+0.40118760				
<i>a</i>	2.9316320	Ω	91.76648	−0.29253793	+0.87836432				
<i>e</i>	0.2217650	<i>i</i>	14.50343	−0.37152746	+0.25985503				
<i>P</i>	5.02	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	3		
Residuals in seconds of arc									
1998 11 14	699	0.8−	0.8+	1999 01 19	704	1.0−	0.5+	2000 03 12	704 0.7+ 0.6+
1998 11 14	699	0.1+	0.5+	2000 01 06	704	0.2−	0.2+	2000 03 12	704 0.3− 0.4−
1998 11 14	699	0.2+	0.1−	2000 01 06	704	0.3−	0.7+	2000 03 12	704 0.2− 0.0
1998 12 17	704	0.0	0.0	2000 01 06	704	0.8+	0.2+	2000 03 28	704 0.6− 0.0
1998 12 17	704	0.3+	0.8−	2000 02 03	704	0.3+	0.1−	2000 03 28	704 0.3− 0.4+
1998 12 17	704	0.2−	0.6−	2000 02 03	704	0.6+	0.5+	2000 03 28	704 0.5− 1.4+
1998 12 17	704	0.7−	0.6−	2000 02 03	704	0.4+	1.8−	2000 04 02	704 0.0 0.1−
1998 12 17	704	0.1−	1.0−	2000 02 03	704	(2.6−	0.1+)	2000 04 02	704 0.4+ 0.1−
1999 01 16	704	0.2+	0.5−	2000 02 03	704	0.2−	0.2−	2000 04 02	704 0.3+ 0.5−
1999 01 16	704	0.6+	1.2+	2000 03 04	704	0.9−	0.1−	2000 04 08	704 0.7− 0.1−
1999 01 16	704	0.1−	0.1−	2000 03 04	704	0.1−	0.1+	2000 04 08	704 0.2− 0.1−
1999 01 16	704	0.2+	0.1−	2000 03 04	704	0.6+	0.2+	2000 04 08	704 0.5+ 0.4−
1999 01 19	704	0.3−	0.8−	2000 03 04	704	0.5−	0.1−	2000 04 08	704 0.5+ 1.2−
1999 01 19	704	0.8+	1.3+	2000 03 12	704	0.1+	0.5+	2000 04 08	704 0.3− 0.3+
1999 01 19	704	0.7+	0.7+	2000 03 12	704	0.2+	0.1+		

2000 FS₁₂ = 1999 BZ₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	207.86981		(2000.0)			P		Q		
n	0.22844281	ω	260.77739			+0.82422243		+0.52716588		
a	2.6502350	Ω	67.15419			−0.39005982		+0.79324743		
e	0.1802799	i	12.96586			−0.41050058		+0.30472061		
P	4.31	H	13.4			G	0.15	U	3	
Residuals in seconds of arc										
1992 04 26	691	0.4+	0.5+	2000 02 03	704	0.4−	0.6−	2000 03 28	704	0.4− 0.9+
1992 04 26	691	0.1+	0.3+	2000 02 03	704	0.6−	0.5+	2000 03 28	704	0.8+ 0.8+
1992 04 26	691	0.2+	0.4+	2000 03 04	704	0.2+	0.0	2000 04 02	704	0.4− 0.2−
1999 01 16	704	0.9+	0.5−	2000 03 04	704	1.0+	0.7−	2000 04 02	704	0.2+ 0.0
1999 01 16	704	1.8−	0.2+	2000 03 04	704	0.3+	0.1+	2000 04 02	704	0.2+ 0.9−
1999 01 16	704	0.9+	1.0+	2000 03 04	704	0.1+	0.3−	2000 04 02	704	0.4− 0.1+
1999 01 16	704	(4.1−	1.8−)	2000 03 04	704	0.2+	0.3−	2000 04 02	704	1.2− 0.2−
1999 01 19	704	0.6−	0.3+	2000 03 12	704	0.0	0.4−	2000 04 08	704	1.2− 0.6+
1999 01 19	704	0.1−	0.8−	2000 03 12	704	0.1+	0.1−	2000 04 08	704	0.5− 1.0+

2000 APR. 18

M.P.C. 40223

1999 01 19	704	0.4+	1.4+	2000 03 12	704	0.0	1.0-	2000 04 08	704	0.2+	0.6+
2000 02 03	704	0.1-	0.7-	2000 03 12	704	0.1-	0.8-	2000 04 08	704	0.3+	1.5+
2000 02 03	704	0.1-	0.8-	2000 03 12	704	0.6-	0.3-				
2000 02 03	704	0.4+	0.3-	2000 03 28	704	0.5+	0.2+				

2000 FC₁₃ = 1996 MM

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	349.38035		(2000.0)		P		Q
<i>n</i>	0.22166372	ω	115.64270	-0.97108080			+0.08437932
<i>a</i>	2.7039976	Ω	69.86863	-0.18159106			-0.86836994
<i>e</i>	0.1584911	<i>i</i>	13.76122	+0.15500570			-0.48868576
<i>P</i>	4.45	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 06 22	684	0.5-	0.1-	1999 02 10	691	0.9-	0.4+	2000 04 02	704	0.8-	0.0
1996 06 22	684	1.9-	0.8-	1999 02 10	691	0.1-	0.3+	2000 04 02	704	0.4-	0.3+
1996 06 22	684	0.5+	0.7-	1999 02 10	691	0.3+	0.9+	2000 04 02	704	0.9+	0.3-
1996 06 23	684	0.6+	0.2+	2000 03 04	704	0.4+	0.3+	2000 04 02	704	0.4-	0.0
1996 06 23	684	0.0	0.2-	2000 03 04	704	0.3-	0.2+	2000 04 08	704	0.2-	0.8-
1996 06 23	684	0.2-	0.3-	2000 03 04	704	0.2+	0.7+	2000 04 08	704	0.3+	1.1-
1996 06 23	684	0.1-	0.4-	2000 03 04	704	0.4+	0.3+	2000 04 08	704	(2.2-	0.2+)
1996 06 24	684	0.1+	0.4+	2000 03 04	704	0.3-	0.6+	2000 04 08	704	0.0	0.4-
1996 06 24	684	0.4+	0.4+	2000 03 29	704	0.1-	0.2+	2000 04 10	608	0.0	0.5-
1996 06 24	684	0.4+	0.1+	2000 03 29	704	0.3+	0.2-	2000 04 10	608	0.1-	0.7-
1998 12 07	910	0.9+	1.3-	2000 03 29	704	0.4-	0.4+	2000 04 10	608	0.6+	0.2-
1998 12 07	910	0.8+	1.2-	2000 03 29	704	0.3-	0.1+				
1998 12 08	910	0.1+	1.2-	2000 03 29	704	0.0	0.3+				

2000 FJ₁₃ = 1995 CE₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	269.14126		(2000.0)		P		Q
<i>n</i>	0.21670945	ω	136.48945	+0.18670479			+0.97757018
<i>a</i>	2.7450535	Ω	143.94503	-0.94060763			+0.20650914
<i>e</i>	0.1361869	<i>i</i>	9.53123	-0.28354649			-0.04135843
<i>P</i>	4.55	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1995 02 01	691	0.3-	0.6+	2000 03 26	699	0.2-	0.1-	2000 04 02	704	0.7-	0.1+
1995 02 01	691	0.5-	0.1-	2000 03 26	699	0.5-	0.2-	2000 04 02	704	0.0	0.5-
1995 02 01	691	0.2-	0.1+	2000 03 26	699	0.6+	0.2-	2000 04 02	704	0.9-	0.4+
1995 02 07	691	0.1+	0.6-	2000 03 29	704	0.0	0.6-	2000 04 03	704	0.3+	0.1+
1995 02 07	691	0.4+	0.0	2000 03 29	704	0.6+	0.3+	2000 04 03	704	0.1-	0.1-
1995 02 07	691	0.5+	0.0	2000 03 29	704	0.0	0.3-	2000 04 03	704	1.2+	0.3-
2000 03 26	699	0.1-	0.8+	2000 03 29	704	0.3-	0.0	2000 04 03	704	0.4+	0.8+

2000 FK₁₃ = 1999 BO₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	303.61569		(2000.0)		P		Q
<i>n</i>	0.16984104	ω	120.74871	-0.52225289			+0.81581758
<i>a</i>	3.2292943	Ω	115.72894	-0.84586550			-0.45851053
<i>e</i>	0.0758653	<i>i</i>	16.00475	-0.10845959			-0.35243406
<i>P</i>	5.80	<i>H</i>	11.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 12 15	704	0.1-	0.5-	1999 02 04	704	0.3+	0.4-	2000 03 29	704	0.3-	0.9+
1998 12 15	704	0.5-	0.9+	1999 02 04	704	1.5-	1.2+	2000 03 29	704	0.4-	0.6+
1998 12 15	704	0.6+	0.6-	1999 02 04	704	0.9+	0.8-	2000 03 29	704	0.5-	1.1+
1998 12 15	704	1.2+	0.7-	1999 02 04	704	(5.7-	0.6+)	2000 04 02	704	0.2+	0.1-
1998 12 15	704	0.8-	0.7+	2000 03 05	704	0.0	0.1-	2000 04 02	704	0.2-	0.6-
1999 01 18	704	1.4+	0.5+	2000 03 05	704	0.1-	0.3+	2000 04 02	704	0.1-	0.2-
1999 01 18	704	1.4-	0.9-	2000 03 05	704	0.2+	0.4+	2000 04 02	704	0.2-	0.8-
1999 01 18	704	0.7+	0.9+	2000 03 05	704	0.1-	0.3+	2000 04 07	860	0.9+	0.6-
1999 01 18	704	0.2-	0.3+	2000 03 05	704	0.5-	0.6+	2000 04 07	860	0.4-	1.4-
1999 01 20	704	0.6-	0.2-	2000 03 15	704	0.2+	0.8-	2000 04 08	704	0.0	0.3-
1999 01 20	704	0.1+	0.1+	2000 03 15	704	0.3-	0.7-	2000 04 08	704	0.0	0.2+

1999 01 20	704	1.2-	0.1+	2000 03 15	704	1.2+	0.3-	2000 04 08	704	0.3+	0.3-
1999 01 20	704	0.5+	0.3+	2000 03 15	704	0.1-	0.1+	2000 04 08	704	0.2-	0.3+
1999 01 20	704	0.6+	0.0	2000 03 15	704	0.4+	0.1+	2000 04 08	704	0.0	0.1+
1999 02 04	704	0.0	1.5-	2000 03 29	704	0.1+	1.1+				

2000 FL₁₃ = 1991 BK₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	339.76161		(2000.0)		P		Q
<i>n</i>	0.23136822	ω	73.43254	-0.93948763			+0.25949681
<i>a</i>	2.6278480	Ω	121.10533	-0.31412600			-0.91304196
<i>e</i>	0.0635636	<i>i</i>	15.14245	+0.13670349			-0.31466772
<i>P</i>	4.26	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1991 01 18	511	(10.4-	0.9-)	2000 04 02	704	0.4+	1.5-	2000 04 08	704	0.1+	0.9+
1991 01 18	511	0.9+	0.5-	2000 04 02	704	1.0+	1.6-	2000 04 08	704	0.2+	0.7+
1991 01 19	511	0.9-	0.7+	2000 04 02	704	1.0+	0.9-	2000 04 08	704	0.2+	0.5+
1991 01 19	511	0.0	0.2-	2000 04 07	860	0.8+	0.4+	2000 04 08	704	0.1-	0.9+
2000 03 29	704	1.1-	0.6+	2000 04 07	860	1.8+	0.2-	2000 04 11	608	(2.5-	0.3+)
2000 03 29	704	1.1-	1.2+	2000 04 07	608	0.4+	0.8-	2000 04 11	608	1.6-	0.3+
2000 03 29	704	0.8-	0.7+	2000 04 07	608	0.5+	0.7-	2000 04 11	608	2.0-	0.6+
2000 03 29	704	1.0-	0.4+	2000 04 07	608	0.7+	0.5-				
2000 04 02	704	0.2+	0.7-	2000 04 08	704	0.5+	0.4-				

2000 FT₁₃ = 1997 WY₄₇ = 1999 CB₁₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.31807		(2000.0)		P		Q
<i>n</i>	0.18132021	ω	246.87504	+0.57476839			+0.76816798
<i>a</i>	3.0915189	Ω	61.26804	-0.58234532			+0.62611930
<i>e</i>	0.1306282	<i>i</i>	18.76375	-0.57490454			+0.13376312
<i>P</i>	5.44	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 11 26	704	(2.3-	0.0)	1999 02 11	704	(3.7-	2.3-)	2000 04 02	704	0.6+	0.5-
1997 11 26	704	1.1-	0.1-	1999 02 11	704	0.2+	0.4-	2000 04 02	704	0.2-	0.3+
1997 11 26	704	0.6-	0.9+	1999 02 11	704	1.1-	0.1+	2000 04 02	704	0.2-	0.4-
1997 11 29	704	1.1+	1.1+	1999 02 18	704	1.9-	0.9+	2000 04 02	704	0.2-	0.2+
1997 11 29	704	0.7-	0.7-	1999 02 18	704	0.4+	0.5-	2000 04 02	704	0.5+	0.1+
1997 11 29	704	0.5+	0.3-	1999 02 18	704	0.7+	0.8+	2000 04 03	704	0.3-	0.5-
1997 11 29	704	0.1+	1.0-	1999 02 18	704	0.2+	0.9-	2000 04 03	704	0.1+	0.1-
1997 11 29	704	(4.8-	0.6+)	1999 02 18	704	0.9+	0.1+	2000 04 03	704	0.1-	0.5-
1997 11 30	566	0.1-	0.0	2000 03 11	703	0.2-	0.2-	2000 04 03	704	0.3+	0.3-
1997 11 30	566	0.5+	0.2+	2000 03 11	703	0.0	0.5+	2000 04 03	704	0.7-	0.6-
1997 11 30	566	0.0	0.2+	2000 03 11	703	0.1+	0.7-	2000 04 08	704	0.7-	0.3-
1999 01 14	704	1.5+	0.4+	2000 03 11	703	0.3-	1.1+	2000 04 08	704	0.7+	0.2+
1999 01 14	704	0.6+	0.4+	2000 03 29	704	0.1+	0.2-	2000 04 08	704	0.5+	1.0+
1999 01 14	704	0.3-	0.9-	2000 03 29	704	0.2-	0.3-	2000 04 08	704	0.6+	1.2+
1999 01 14	704	1.1-	0.5-	2000 03 29	704	0.2-	0.6-	2000 04 08	704	0.8+	0.9+
1999 02 11	704	0.6+	0.9-	2000 03 29	704	0.2-	0.3-				
1999 02 11	704	0.7-	0.9+	2000 03 29	704	0.6-	0.4+				

2000 FL₁₅ = 1996 TT₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	24.21611		(2000.0)		P		Q
<i>n</i>	0.41361459	ω	310.42918	-0.84237320			-0.52635282
<i>a</i>	1.7840437	Ω	198.74655	+0.53477062			-0.84295653
<i>e</i>	0.1137617	<i>i</i>	21.07884	-0.06654151			-0.11125195
<i>P</i>	2.38	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 10 09	566	0.4-	0.4-	2000 04 04	699	0.2-	0.1+	2000 04 06	704	0.5-	0.9-
1996 10 09	566	0.4-	0.1-	2000 04 04	704	0.1-	0.1+	2000 04 07	704	0.2+	0.0
1996 10 09	566	0.6+	0.2+	2000 04 04	704	0.1-	0.2+	2000 04 07	704	0.2-	0.1-
1996 10 11	566	0.2+	0.4+	2000 04 04	699	0.7-	0.4+	2000 04 07	704	0.5+	0.2-
1996 10 11	566	0.1-	0.3+	2000 04 04	704	0.1+	0.3-	2000 04 07	704	0.2+	0.1+

M.P.C. 40224

2000 APR. 18

1996 10 11	566	0.0	0.5+	2000 04 04	699	0.4−	0.2+	2000 04 07	704	0.1+	0.5−
2000 03 14	704	0.4−	0.2+	2000 04 04	699	0.5−	0.5+	2000 04 10	704	0.3+	0.1−
2000 03 14	704	0.0	0.1−	2000 04 05	704	0.3+	0.2−	2000 04 10	704	0.3+	0.0
2000 03 14	704	0.1+	0.4−	2000 04 05	704	0.1+	0.0	2000 04 10	704	0.1+	0.2−
2000 03 14	704	1.1−	0.6−	2000 04 05	704	0.3+	0.3−	2000 04 10	704	0.5+	0.1+
2000 03 30	704	0.1−	0.8+	2000 04 05	704	0.2+	0.0	2000 04 10	704	0.2+	0.1+
2000 03 30	704	0.2−	0.3+	2000 04 05	704	0.2+	0.2+	2000 04 12	704	0.0	0.4−
2000 03 30	704	0.7+	0.5+	2000 04 05	704	0.3+	0.2−	2000 04 12	704	0.4−	0.3−
2000 03 30	704	0.1−	0.4+	2000 04 05	704	0.2+	0.0	2000 04 12	704	0.1−	0.1+
2000 03 30	704	0.0	0.3+	2000 04 05	704	0.3+	0.0	2000 04 12	704	0.5+	0.0
2000 04 02	699	0.1−	0.8+	2000 04 05	704	0.2+	0.0	2000 04 12	704	0.5−	0.5−
2000 04 02	699	0.1−	0.3+	2000 04 05	704	0.3+	0.0	2000 04 14	704	0.3−	0.2+
2000 04 02	699	0.1−	0.5+	2000 04 06	704	0.0	0.4−	2000 04 14	704	0.3−	0.2+
2000 04 02	699	0.2+	0.7+	2000 04 06	704	0.2+	0.5−	2000 04 14	704	0.3−	0.1+
2000 04 04	704	0.1+	0.1−	2000 04 06	704	0.1−	0.3−	2000 04 14	704	0.1+	0.3+
2000 04 04	704	0.3+	0.1+	2000 04 06	704	0.2−	0.6−	2000 04 14	704	0.6−	0.1+

2000 FP₁₅ = 1997 GM₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	296.81820		(2000.0)	P	Q
<i>n</i>	0.31343881	ω	227.74278	−0.55062918	+0.83466717
<i>a</i>	2.1463516	Ω	8.86983	−0.74166723	−0.48271686
<i>e</i>	0.0890064	<i>i</i>	4.37304	−0.38306296	−0.26517004
<i>P</i>	3.14	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 04 03	704	0.4+	0.4+	2000 03 04	704	0.4−	0.3+	2000 03 11	704	0.1+	0.8−
1997 04 03	704	0.1+	0.6+	2000 03 04	704	0.5+	0.1−	2000 03 11	704	0.3+	1.2−
1997 04 05	704	0.2+	0.1+	2000 03 04	704	1.0−	1.1+	2000 03 11	699	0.2+	0.2−
1997 04 05	704	0.4−	0.4−	2000 03 04	704	0.2+	0.5+	2000 03 11	704	0.2−	1.4−
1997 04 06	704	0.4−	0.4−	2000 03 04	704	0.5+	0.2+	2000 03 11	699	0.1+	0.4−
1997 04 06	704	0.5−	0.1+	2000 03 04	704	0.2+	0.0	2000 03 28	704	0.8+	1.2−
1997 04 07	704	0.6+	0.0	2000 03 04	704	0.9−	0.4−	2000 03 28	704	0.7−	0.4+
1997 04 07	704	0.0	0.1−	2000 03 04	704	0.4+	0.0	2000 03 28	704	0.3+	0.5+
2000 02 16	703	0.7+	0.0	2000 03 04	704	0.3−	0.4+	2000 04 03	704	0.2−	0.2−
2000 02 16	703	0.1+	0.9+	2000 03 04	704	0.6+	0.4−	2000 04 03	704	0.3−	0.5+
2000 02 16	703	0.4+	0.2−	2000 03 04	704	0.0	0.4+	2000 04 03	704	0.1−	0.5+
2000 02 16	703	0.5−	0.4+	2000 03 11	704	0.0	0.1−	2000 04 03	704	0.2−	0.2+
2000 03 04	704	0.6−	0.1+	2000 03 11	699	0.4−	0.4−	2000 04 03	704	0.4+	0.6+
2000 03 04	704	0.1+	0.3+	2000 03 11	704	0.2+	0.3−				
2000 03 04	704	0.4−	0.5+	2000 03 11	699	0.0	0.2−				

2000 FV₁₅ = 1989 XP₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	52.43846		(2000.0)	P	Q
<i>n</i>	0.21331145	ω	316.02454	−0.14858469	−0.98461377
<i>a</i>	2.7741287	Ω	142.24104	+0.94372122	−0.16897118
<i>e</i>	0.1834991	<i>i</i>	8.63809	+0.29548748	+0.04454728
<i>P</i>	4.62	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1989 12 03	675	1.0−	0.3−	2000 02 02	703	1.0+	0.4−	2000 03 28	704	0.1−	0.8+
1989 12 03	675	0.1+	0.5+	2000 02 11	704	0.2−	0.5−	2000 03 28	704	0.3−	0.2+
1989 12 04	675	0.9−	1.1−	2000 02 11	704	0.6+	0.3+	2000 04 03	704	0.1+	0.4+
1989 12 04	675	1.8+	0.7+	2000 02 11	704	0.8+	0.4+	2000 04 03	704	0.0	0.3+
1998 09 24	699	0.9+	1.4+	2000 02 11	704	0.3+	0.2−	2000 04 03	704	0.1+	0.5−
1998 09 24	699	0.2−	1.3+	2000 02 11	704	0.4−	0.8−	2000 04 03	704	0.2−	0.0
1998 09 24	699	(0.2−	2.3+)	2000 02 26	703	0.6−	0.3+	2000 04 03	704	0.1+	0.5−
1998 10 17	699	0.2−	0.2−	2000 02 26	703	0.2−	0.7+	2000 04 06	608	0.1+	0.4−
1998 10 17	699	0.7−	0.4−	2000 02 26	703	0.4+	0.2+	2000 04 06	608	0.8+	0.7−
1998 10 17	699	0.2−	0.6+	2000 02 26	703	0.0	0.5+	2000 04 06	608	0.9+	0.3−
1998 11 15	566	0.0	0.7−	2000 03 12	704	0.2+	0.3−	2000 04 08	704	0.8−	1.3+
1998 11 15	566	0.4−	0.1−	2000 03 12	704	0.7−	0.3−	2000 04 08	704	0.1+	0.1−
1998 11 15	566	0.5+	0.7−	2000 03 12	704	0.5−	0.5−	2000 04 08	704	0.4+	0.1+
2000 02 02	703	0.8−	0.3+	2000 03 12	704	0.3−	1.2−	2000 04 08	704	0.0	0.9+

2000 02 02	703	1.0+	0.2−	2000 03 28	704	0.8−	0.5+	2000 04 08	704	0.1−	0.5+
2000 02 02	703	0.4+	0.3+	2000 03 28	704	1.0−	0.2+				

2000 FW₁₅ = 1996 LU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	314.56419		(2000.0)	P	Q
<i>n</i>	0.23389978	ω	147.20288	−0.50350005	+0.85716489
<i>a</i>	2.6088524	Ω	92.35312	−0.81424478	−0.42878691
<i>e</i>	0.2553092	<i>i</i>	6.22983	−0.28895179	−0.28532463
<i>P</i>	4.21	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 06 08	809	0.1+	1.2+	2000 03 05	704	0.4−	0.3−	2000 04 03	704	0.2−	0.6+
1996 06 08	809	0.2−	1.2+	2000 03 05	704	0.2+	0.5+	2000 04 03	704	0.3−	0.4+
1996 06 08	809	0.4−	0.4+	2000 03 05	704	0.3+	0.5+	2000 04 03	704	1.1−	0.8+
1996 06 10	809	0.8+	1.2−	2000 03 12	704	0.3−	0.1+	2000 04 03	704	1.4−	0.3+
1996 06 10	809	0.4−	1.7−	2000 03 12	704	0.0	0.0	2000 04 06	608	0.6+	0.5−
1996 06 10	809	0.2+	0.4+	2000 03 12	704	0.2+	0.1+	2000 04 06	608	0.7+	0.6−
2000 02 26	703	0.5+	0.0	2000 03 12	704	0.5+	0.6+	2000 04 06	608	0.5+	0.1−
2000 02 26	703	0.4+	0.6+	2000 03 12	704	0.1−	0.1−	2000 04 08	704	0.0	0.4+
2000 02 26	703	0.5−	0.1−	2000 03 28	704	0.4+	0.0	2000 04 08	704	0.1−	1.0−
2000 02 26	703	0.3−	0.8−	2000 03 28	704	0.1+	0.5+	2000 04 08	704	0.4−	0.4−
2000 03 05	704	0.3−	0.4+	2000 03 28	704	1.2+	1.2−	2000 04 08	704	0.2−	0.6−
2000 03 05	704	0.0	0.1+	2000 04 03	704	0.2−	0.0	2000 04 08	704	0.0	0.5−

2000 FA₁₆ = 1996 HB₁₈ = 1998 XV₆₅

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	102.98193		(2000.0)	P	Q
<i>n</i>	0.21822688	ω	358.47879	+0.47038620	−0.87696772
<i>a</i>	2.7323137	Ω	63.45250	+0.81079787	+0.38552189
<i>e</i>	0.0546266	<i>i</i>	6.30925	+0.34834414	+0.28688062
<i>P</i>	4.52	<i>H</i>	14.0	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1996 04 18	809	1.2+	0.5+	1998 12 17	704	(1.5+	3.9+)	2000 04 03	704	0.2+	0.8−
1996 04 18	809	0.9+	0.3+	1998 12 17	704	1.6+	0.6+	2000 04 03	704	0.4+	0.7−
1996 04 18	809	1.2+	0.6+	1998 12 17	704	(0.4+	2.5+)	2000 04 03	704	0.4−	0.8−
1996 04 20	809	0.8−	0.1+	1998 12 17	704	(1.6+	2.4+)	2000 04 06	046	1.0+	0.0
1996 04 20	809	1.3−	0.2−	2000 03 28	704	0.6−	0.7−	2000 04 06	046	0.3+	0.3−
1996 04 20	809	0.6−	0.2+	2000 03 28	704	0.0	0.2+	2000 04 06	046	0.3+	0.5+
1998 12 11	699	0.4−	0.1+	2000 03 28	704	0.3+	0.3+	2000 04 06	046	0.4+	0.2−
1998 12 11	699	0.2−	0.5−	2000 04 02	046	0.5−	0.2+	2000 04 08	704	0.5+	0.2−
1998 12 11	699	0.8−	0.3+	2000 04 02	046	0.1−	0.2+	2000 04 08	704	0.1+	0.1−
1998 12 14	704	0.2−	0.2−	2000 04 02	046	0.0	0.1−	2000 04 08	704	0.8+	0.2−
1998 12 14	704	1.2−	0.2+	2000 04 02	046	0.8−	0.4+	2000 04 08	704	0.9−	0.1−
1998 12 14	704	1.2+	0.2+	2000 04 02	046	0.8−	0.4+	2000 04 08	704	0.3−	0.3+
1998 12 14	704	0.2−	0.4+	2000 04 02	046	0.3−	0.3+				
1998 12 14	704	(2.5−	0.8+)	2000 04 03	704	0.2+	0.5+				

2000 FB₁₆ = 1998 WX₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	286.43038		(2000.0)	P	Q
<i>n</i>	0.28718887	ω	166.27874	−0.19494291	+0.97478161
<i>a</i>	2.2752248	Ω	92.39781	−0.90982615	−0.13835649
<i>e</i>	0.1402464	<i>i</i>	6.24120	−0.36635180	−0.17509510
<i>P</i>	3.43	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 11	704	0.7+	0.9−	1998 12 11	691	0.9−	0.1−	2000 03 05	704	0.2−	0.1−
1998 11 11	704	(2.4+	0.8+)	1998 12 11	691	0.8−	0.1+	2000 03 12	704	0.0	0.4−
1998 11 11	704	1.5−	0.9−	1998 12 11	691	1.0−	0.1−	2000 03 12	704	0.4	0.7−
1998 11 11	704	0.6−	0.1−	2000 01 08	704	0.0	0.0	2000 03 12	704	0.4−	0.1−
1998 11 11	704	(4.7−	0.1+)	2000 01 08	704	0.3−	0.6+	2000 03 12	704	0.4−	0.4−
1998 11 18	704	0.9−	0.2−	2000 01 08	704	1.8+	1.2+	2000 03 12	704	0.2−	0.4+

2000 APR. 18

M.P.C. 40225

1998 11 18	704	0.6+	0.1-	2000 01 08	704	0.1+	0.4-	2000 03 28	704	1.2+	0.1+
1998 11 18	704	0.8+	0.7-	2000 01 08	704	0.9-	0.1-	2000 03 28	704	0.2-	0.5+
1998 11 18	704	(0.5-	3.1-)	2000 02 02	703	0.5-	0.6-	2000 03 28	704	0.6-	0.8+
1998 11 21	704	0.1-	0.8+	2000 02 02	703	0.0	0.3-	2000 03 28	704	0.5+	0.6+
1998 11 21	704	0.0	0.1-	2000 02 02	703	1.1-	0.4+	2000 04 03	704	0.2-	0.2-
1998 11 21	704	1.8+	0.7-	2000 02 02	703	1.0-	0.0	2000 04 03	704	0.4-	0.0
1998 11 21	704	0.1-	1.9+	2000 02 11	704	0.9+	0.4-	2000 04 03	704	0.1-	0.1-
1998 11 23	699	0.1-	0.0	2000 02 11	704	0.7+	0.1+	2000 04 03	704	0.1+	0.0
1998 11 23	699	0.3-	0.2-	2000 02 11	704	0.3+	1.0-	2000 04 03	704	0.3+	0.1-
1998 11 23	699	0.3+	1.4+	2000 02 11	704	0.3+	0.3+	2000 04 08	704	0.0	0.9-
1998 11 24	704	0.3+	0.1+	2000 03 05	704	0.1+	0.2-	2000 04 08	704	0.1-	0.6+
1998 11 24	704	0.5+	0.1-	2000 03 05	704	0.1+	0.1+	2000 04 08	704	0.7+	0.4+
1998 11 24	704	0.3-	0.1-	2000 03 05	704	0.3-	0.1-	2000 04 08	704	0.0	0.0
1998 11 24	704	1.6+	0.1+	2000 03 05	704	0.4-	0.1+	2000 04 08	704	0.4+	0.1+

2000 FC₁₆ = 1989 YT₇ = 1998 XR₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	132.10909		(2000.0)	P	Q		
<i>n</i>	0.21318125	ω	264.72359	+0.87031317	-0.47148679		
<i>a</i>	2.7752581	Ω	123.33432	+0.49168546	+0.81520635		
<i>e</i>	0.1514482	<i>i</i>	9.80796	+0.02829119	+0.33636114		
<i>P</i>	4.62	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1989 12 26	033	0.4-	0.0	2000 02 26	703	1.0-	0.2+	2000 04 05	704	0.2+	0.3+
1989 12 26	033	0.6-	0.4-	2000 03 05	704	0.2+	0.2+	2000 04 05	704	0.4-	0.3+
1989 12 26	033	1.0+	0.0	2000 03 05	704	0.0	0.1+	2000 04 05	704	0.1-	0.2-
1998 12 15	704	0.1+	0.2+	2000 03 05	704	0.1+	0.4+	2000 04 05	704	0.4+	0.5+
1998 12 15	704	0.9-	0.1-	2000 03 05	704	0.1+	0.5+	2000 04 05	704	0.3-	0.3-
1998 12 15	704	0.6-	0.2+	2000 03 05	704	0.3-	0.2+	2000 04 07	704	0.1-	0.2-
1998 12 15	704	0.2+	0.2+	2000 03 12	704	0.5-	0.2-	2000 04 07	704	0.4-	0.4-
1998 12 15	704	0.7-	0.3+	2000 03 12	704	0.4-	0.1-	2000 04 07	704	0.1+	0.4+
1998 12 22	704	0.1+	0.2+	2000 03 12	704	0.6-	0.3-	2000 04 07	704	0.8+	0.1+
1998 12 22	704	0.1-	0.2-	2000 03 12	704	0.4-	0.2-	2000 04 07	704	0.5+	0.1-
1998 12 22	704	0.4+	0.2-	2000 03 12	704	0.5-	0.4-	2000 04 08	704	0.4+	0.0
1998 12 22	704	0.8+	1.0-	2000 03 28	704	0.1+	0.5+	2000 04 08	704	0.5-	0.1-
1998 12 22	704	0.7+	0.3+	2000 03 28	704	0.2-	0.3-	2000 04 08	704	0.6+	0.6+
2000 02 02	703	0.5-	0.1-	2000 03 28	704	0.4+	0.3+	2000 04 08	704	0.3+	0.8-
2000 02 02	703	1.0-	1.1+	2000 04 03	704	0.1+	0.3+	2000 04 08	704	0.4+	0.1-
2000 02 02	703	1.5-	0.2+	2000 04 03	704	1.4-	0.4-	2000 04 08	704	0.4-	0.0
2000 02 02	703	0.9-	0.2-	2000 04 03	704	1.2+	0.5-	2000 04 08	704	0.1-	0.2-
2000 02 04	704	0.7+	0.5-	2000 04 03	704	0.5+	0.9-	2000 04 08	704	0.0	0.2-
2000 02 04	704	0.8+	1.3+	2000 04 03	704	1.2+	0.4-	2000 04 08	704	0.4+	0.6-
2000 02 04	704	0.0	0.7+	2000 04 04	704	0.0	0.5+	2000 04 08	704	0.2-	0.0
2000 02 04	704	1.1+	1.8+	2000 04 04	704	0.1+	0.2-	2000 04 12	608	0.1-	0.2-
2000 02 26	703	0.6-	0.1-	2000 04 04	704	0.7+	0.5+	2000 04 12	608	0.5+	0.3-
2000 02 26	703	0.6-	1.1-	2000 04 04	704	0.6+	0.2+	2000 04 12	608	0.0	1.1-
2000 02 26	703	0.9-	0.4-	2000 04 04	704	0.4+	0.7+				

2000 FO₁₆ = 1993 UJ₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	26.87910		(2000.0)	P	Q		
<i>n</i>	0.21242392	ω	11.31135	-0.79929678	-0.59601920		
<i>a</i>	2.7818504	Ω	131.82577	+0.54300459	-0.77102220		
<i>e</i>	0.0442900	<i>i</i>	5.90930	+0.25743092	-0.22424513		
<i>P</i>	4.64	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 20	809	1.1+	0.2+	2000 03 26	699	0.4-	0.2-	2000 04 07	699	0.1-	0.1+
1993 10 20	809	1.2+	0.3-	2000 03 28	704	0.1+	1.3+	2000 04 07	699	1.4-	0.0
1993 10 20	809	0.0	0.0	2000 03 28	704	0.2+	0.1-	2000 04 07	699	0.3-	1.0+
1993 10 21	809	0.0	0.4-	2000 03 28	704	0.6+	0.2+	2000 04 07	699	0.4-	0.5+
1993 10 21	809	1.1-	0.3+	2000 03 28	704	1.9+	0.4+	2000 04 08	704	0.4+	0.8-
1993 10 21	809	1.2-	0.3+	2000 04 03	704	0.1+	0.5-	2000 04 08	704	0.5-	0.1+
2000 03 26	699	0.7-	0.1+	2000 04 03	704	0.2-	0.6-	2000 04 08	704	0.6+	0.7+

2000 03 26	699	0.5-	0.1-	2000 04 03	704	0.2-	0.1-	2000 04 08	704	0.7+	0.0
2000 03 26	699	0.8-	0.7-	2000 04 03	704	0.0	0.6-	2000 04 08	704	0.6+	0.7-

2000 FR₁₆ = 1998 XL₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	155.28303		(2000.0)	P	Q		
<i>n</i>	0.23293029	ω	329.67754	+0.97416453	-0.15640570		
<i>a</i>	2.6160863	Ω	40.36512	+0.22185581	+0.79765230		
<i>e</i>	0.1731015	<i>i</i>	14.56882	-0.04223102	+0.58248438		
<i>P</i>	4.23	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 16	704	0.1-	0.6+	1998 12 17	704	0.2+	0.6-	2000 04 03	704	0.4-	0.9+
1998 11 16	704	0.5+	0.0	1998 12 17	704	0.8+	1.7-	2000 04 03	704	0.3+	0.4+
1998 11 16	704	0.6+	0.5-	1998 12 17	704	0.7-	0.7+	2000 04 03	704	0.6+	0.0
1998 11 16	704	0.2-	0.2-	2000 03 05	704	0.5-	0.0	2000 04 03	704	0.0	0.2+
1998 11 16	704	0.2-	0.0	2000 03 05	704	0.3-	0.4-	2000 04 08	704	0.0	0.0
1998 12 14	704	0.3-	0.5+	2000 03 05	704	0.3+	0.3+	2000 04 08	704	1.0+	0.4-
1998 12 14	704	0.6-	0.5+	2000 03 28	704	0.0	0.1+	2000 04 08	704	0.3+	0.5+
1998 12 14	704	0.5-	0.2+	2000 03 28	704	0.2-	0.0	2000 04 08	704	1.2-	1.6-
1998 12 14	704	1.1+	0.7+	2000 03 28	704	0.4+	0.0	2000 04 11	608	0.5+	0.2+
1998 12 14	704	0.6-	0.4+	2000 03 28	704	0.8-	0.4+	2000 04 11	608	0.3+	0.7-
1998 12 17	704	0.1+	0.7-	2000 04 03	704	0.0	0.7+	2000 04 11	608	0.3-	0.6-

2000 FD₁₇ = 1981 WH₁ = 1983 CF₄ = 1987 YA₂ = 1994 CE₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	161.17427		(2000.0)	P	Q		
<i>n</i>	0.18047476	ω	222.77640	+0.97584116	-0.19630652		
<i>a</i>	3.1011664	Ω	148.16779	+0.21448280	+0.94434760		
<i>e</i>	0.1532593	<i>i</i>	10.47657	-0.04160712	+0.26395332		
<i>P</i>	5.46	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1981 11 24	688	2.4+	0.7-	1998 12 16	699	0.2-	0.8+	2000 03 26	699	0.3+	0.4+
1981 11 24	688	2.0-	0.9-	1998 12 16	699	0.0	0.9+	2000 03 26	699	0.3+	0.3+
1983 02 14	381	2.3+	0.0	1999 01 18	704	0.3+	0.2+	2000 03 26	699	0.2+	0.5+
1987 12 20	010	1.1-	0.2+	1999 01 18	704	0.1+	0.7-	2000 03 26	699	0.2+	0.3+
1987 12 20	010	0.8-	0.6+	1999 01 18	704	0.0	0.5+	2000 03 28	704	0.0	0.5-
1987 12 20	010	0.0	0.4-	1999 01 18	704	1.1+	1.2-	2000 03 28	704	0.2-	0.1-
1994 02 12	691	0.9+	0.3+	1999 01 18	704	0.3-	0.3+	2000 03 28	704	0.6-	0.0
1994 02 12	691	0.4-	0.1+	1999 04 07	704	1.0+	0.6+	2000 03 28	704	0.0	0.8-
1994 02 12	691	0.0	0.1-	1999 04 07	704	0.1+	0.4+	2000 04 03	704	0.3+	0.4-
1994 02 14	675	0.7-	0.6-	1999 04 07	704	1.5-	1.0-	2000 04 03	704	0.1-	0.2-
1994 02 14	675	0.6-	1.0-	1999 04 07	704	1.4+	1.7+	2000 04 03	704	0.3+	0.3-
1994 02 16	691	0.1-	0.0	1999 04 07	704	(2.9-	3.1+)	2000 04 03	704	0.0	0.3-
1994 02 16	691	0.3-	0.1+	2000 03 12	703	0.6-	0.1+	2000 04 07	699	0.3-	0.2+
1994 02 16	691	0.2-	0.1+	2000 03 12	703	0.4+	0.2+	2000 04 07	699	1.3-	0.4+
1994 02 19	691	0.2-	0.2-	2000 03 12	703	0.2+	0.2-	2000 04 07	699	0.3+	0.6-
1994 02 19	691	0.2-	0.1-	2000 03 12	703	0.2-	0.0	2000 04 07	699	0.7-	0.3+
1994 02 19	691	0.4-	0.0	2000 03 12	704	0.2+	0.0	2000 04 08	704	1.0+	0.2-
1994 03 04	033	0.4-	0.5-	2000 03 12	704	0.6+	0.3+	2000 04 08	704	0.0	0.1+
1994 03 04	033	0.3-	0.1-	2000 03 12	704	0.4-	0.1-	2000 04 08	704	0.5+	0.2+
1998 12 16	699	0.1+	0.3+	2000 03 12	704	0.3+	0.3-	2000 04 08	704	0.5-	0.1-

1996 05 11	691	0.3−	0.8+	1998 11 24	699	0.1−	0.9−	2000 04 03	704	0.3−	0.2+
1998 11 10	704	0.5−	0.0	1999 01 19	910	0.2−	0.5+	2000 04 03	704	0.9−	0.8+
1998 11 10	704	0.1−	0.6−	1999 01 19	910	0.2−	0.3+	2000 04 03	704	0.4−	0.3+
1998 11 10	704	0.5−	1.9+	1999 01 19	910	0.3−	0.1+	2000 04 03	704	0.9−	1.0+
1998 11 10	704	0.5−	0.8+	2000 03 05	704	0.0	0.3+	2000 04 03	704	(2.3−	1.6+)
1998 11 11	704	0.8+	0.7−	2000 03 05	704	0.5+	0.1−	2000 04 08	704	0.0	0.2+
1998 11 11	704	1.9−	1.6+	2000 03 05	704	0.2+	0.4+	2000 04 08	704	0.2+	0.1+
1998 11 11	704	0.5+	0.8−	2000 03 12	704	0.9−	0.0	2000 04 08	704	0.2+	0.4−
1998 11 11	704	(2.6−	0.5+)	2000 03 12	704	0.8+	0.1−	2000 04 08	704	0.3+	0.5+
1998 11 11	699	0.1+	0.2−	2000 03 12	704	0.4+	0.3+	2000 04 08	704	0.8+	0.2+
1998 11 11	704	0.4−	0.9+	2000 03 12	704	0.2−	0.5−	2000 04 12	608	0.1+	0.6−
1998 11 11	699	0.1+	0.9−	2000 03 12	704	0.1+	0.6−	2000 04 12	608	0.7+	0.3−
1998 11 11	699	1.5+	0.1+	2000 03 28	704	0.4+	0.9−	2000 04 12	608	0.6+	0.4−

2000 FK₁₇ = 1996 BC₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	297.38342		(2000.0)	P	Q
<i>n</i>	0.28487981	ω	122.11810	−0.40512543	+0.90747613
<i>a</i>	2.2875027	Ω	123.58676	−0.87734480	−0.35167561
<i>e</i>	0.0982690	<i>i</i>	7.66950	−0.25717600	−0.22980719
<i>P</i>	3.46	<i>H</i>	14.6	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1994 06 13	691	1.0+	0.1−	2000 01 08	704	0.1+	0.5−	2000 03 26	699	0.4−	0.3+
1994 06 13	691	1.1−	1.8−	2000 01 08	704	0.0	0.8−	2000 03 29	704	0.1+	0.0
1994 06 13	691	0.3+	0.3+	2000 02 29	704	0.5+	0.6+	2000 03 29	704	0.1+	0.9−
1996 01 25	596	0.9+	0.6−	2000 02 29	704	0.4+	0.6+	2000 03 29	704	0.4−	0.1+
1996 01 25	596	0.4+	0.9−	2000 02 29	704	0.5+	0.0	2000 04 03	704	0.0	0.8+
1996 01 26	596	0.3+	0.7−	2000 03 12	703	0.2−	0.1−	2000 04 03	704	0.3+	0.2+
1996 01 26	596	0.8−	1.0−	2000 03 12	703	0.2−	0.0	2000 04 03	704	0.0	0.6+
1996 01 26	596	0.5−	0.9−	2000 03 12	703	0.4−	0.3+	2000 04 03	704	0.1+	0.1+
1998 11 13	704	(2.6−	0.3+)	2000 03 12	703	0.3−	0.2+	2000 04 03	704	0.2+	0.1+
1998 11 13	704	(1.8−	3.9+)	2000 03 12	704	0.1+	0.3+	2000 04 08	704	0.1+	0.5+
1998 11 13	704	1.5−	1.4+	2000 03 12	704	0.2+	0.1+	2000 04 08	704	0.5+	0.3−
1998 11 13	704	1.5−	0.3+	2000 03 12	704	0.5−	0.1+	2000 04 08	704	0.5+	0.3+
1998 11 14	699	0.6+	0.4+	2000 03 12	704	0.3−	0.3+	2000 04 08	704	0.6+	0.4+
1998 11 14	699	0.1−	1.1+	2000 03 26	699	0.4−	0.1−	2000 04 08	704	0.4+	0.1+
1998 11 14	699	1.3+	1.2+	2000 03 26	699	0.4−	0.0				
2000 01 08	704	0.5−	0.8−	2000 03 26	699	0.0	0.3−				

2000 FP₁₇ = 1999 CS₈₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	186.96944		(2000.0)	P	Q
<i>n</i>	0.18212977	ω	300.33154	+0.98342236	+0.10871477
<i>a</i>	3.0823510	Ω	53.81000	−0.02428937	+0.87210869
<i>e</i>	0.0759022	<i>i</i>	10.35927	−0.17969556	+0.47708231
<i>P</i>	5.41	<i>H</i>	13.0	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1993 12 17	691	1.0−	0.1−	1999 02 10	704	0.7−	0.3−	2000 04 03	704	0.0	0.6−
1993 12 17	691	0.2+	0.2−	1999 02 10	704	0.4+	0.1−	2000 04 03	704	0.5+	0.3−
1993 12 17	691	0.5+	0.3−	1999 02 13	704	1.0−	1.2−	2000 04 03	704	0.7+	0.7+
1997 11 03	704	0.7−	0.9+	1999 02 13	704	0.3+	1.6−	2000 04 03	704	0.2−	1.3+
1997 11 03	704	0.2+	0.2−	1999 02 13	704	(1.1−	5.3−)	2000 04 03	704	0.9−	1.2+
1997 11 03	704	0.6−	0.7+	2000 03 12	703	0.1+	0.3−	2000 04 07	699	0.5−	0.2+
1997 11 03	704	0.1+	0.3+	2000 03 12	703	1.1−	0.1−	2000 04 07	699	0.2−	0.2−
1999 01 09	699	0.9+	0.1−	2000 03 12	703	0.4+	0.1+	2000 04 07	699	0.1−	0.0
1999 01 09	699	1.3+	0.5−	2000 03 12	703	0.1+	0.1−	2000 04 07	699	0.5−	0.2−
1999 01 09	699	0.7+	0.1−	2000 03 12	704	0.8+	0.4−	2000 04 08	704	0.3−	0.3−
1999 01 19	704	1.4−	1.0+	2000 03 12	704	0.5+	0.6+	2000 04 08	704	0.1−	0.2−
1999 01 19	704	(1.5+	2.8−)	2000 03 12	704	0.9+	1.4+	2000 04 08	704	0.1+	0.1−
1999 01 19	704	1.4−	1.4−	2000 03 29	704	0.1+	0.1+	2000 04 08	704	0.3−	0.4−
1999 01 19	704	(3.1−	0.4−)	2000 03 29	704	0.1+	0.1+	2000 04 08	704	0.6−	0.6+
1999 02 10	704	1.2+	1.6+	2000 03 29	704	0.1+	0.3−	2000 04 11	608	0.3+	0.3−
1999 02 10	704	0.2−	1.8+	2000 03 29	704	0.4+	0.3−	2000 04 11	608	0.5+	0.3−
1999 02 10	704	0.0	0.4+	2000 03 29	704	0.2+	0.1+	2000 04 11	608	0.1+	0.0

2000 FU₁₇ = 1998 YX₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	35.18668		(2000.0)	P	Q
<i>n</i>	0.18149185	ω	62.05438	−0.71133647	−0.67830067
<i>a</i>	3.0895695	Ω	74.58254	+0.55887122	−0.70473778
<i>e</i>	0.0818216	<i>i</i>	11.01213	+0.42621988	−0.20797325
<i>P</i>	5.43	<i>H</i>	13.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1997 10 29	566	0.1+	0.0	2000 01 07	704	0.3+	0.5+	2000 03 29	704	0.5+	0.1+
1997 10 29	566	0.4−	0.4+	2000 01 07	704	1.0−	0.4−	2000 03 29	704	0.6−	1.1−
1997 10 29	566	0.1−	0.3+	2000 01 07	704	0.3+	0.1−	2000 03 29	704	0.2+	0.4+
1998 12 16	704	0.5−	1.2−	2000 01 07	704	0.3−	1.0+	2000 03 29	704	0.2−	1.4−
1998 12 16	704	0.0	0.8−	2000 01 07	704	0.0	0.1+	2000 04 03	704	0.5−	0.3+
1998 12 16	704	1.1+	0.4+	2000 03 05	704	1.0+	0.1+	2000 04 03	704	0.1+	0.7+
1998 12 16	704	(0.5−	2.0+)	2000 03 05	704	0.7+	0.6+	2000 04 03	704	0.2+	0.7+
1998 12 16	704	0.4−	0.3−	2000 03 05	704	0.7+	0.4+	2000 04 03	704	0.3−	0.6+
1998 12 17	704	0.5−	0.5−	2000 03 12	704	0.2+	0.3+	2000 04 03	704	0.3−	0.7+
1998 12 17	704	(0.2+	2.3−)	2000 03 12	704	0.3−	0.6+	2000 04 06	608	0.8+	0.4−
1998 12 17	704	1.1−	0.3−	2000 03 12	704	0.1+	0.8+	2000 04 06	608	0.5+	1.4−
1998 12 17	704	0.1−	0.1+	2000 03 12	704	0.1−	0.6+	2000 04 06	608	0.4+	0.6−
1998 12 17	704	0.7+	0.7+	2000 03 29	704	0.1−	0.3+	2000 04 08	704	0.3−	0.1+
1999 01 16	704	0.9−	0.2+	2000 03 29	704	0.2−	0.7−	2000 04 08	704	0.2−	0.3−
1999 01 16	704	0.7+	1.0−	2000 03 29	704	0.0	0.4+	2000 04 08	704	0.2+	0.5−
1999 01 16	704	0.8+	0.2−	2000 03 29	704	0.4−	1.0−	2000 04 08	704	0.5−	0.3+
1999 01 16	704	0.2−	0.9+	2000 03 29	704	0.3+	0.3+	2000 04 08	704	0.7−	0.1+
1999 01 16	704	0.6+	1.6+	2000 03 29	704	0.4−	1.1−				

2000 FA₁₈ = 1993 OU₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	95.81964		(2000.0)	P	Q
<i>n</i>	0.23357069	ω	298.16497	+0.42940809	−0.88617117
<i>a</i>	2.6113023	Ω	125.34903	+0.88525270	+0.37487606
<i>e</i>	0.1703063	<i>i</i>	12.32438	+0.17870745	+0.27233910
<i>P</i>	4.22	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 07 20	809	1.3−	0.1−	2000 03 29	704	0.2−	0.3+	2000 04 03	704	0.0	0.7+
1993 07 20	809	1.0+	0.7+	2000 03 29	704	0.4−	0.7−	2000 04 08	704	0.1+	0.1+
1993 07 20	809	0.4+	0.6−	2000 03 29	704	0.3−	0.3−	2000 04 08	704	0.2+	0.4+
1993 07 24	809	0.1−	0.0	2000 03 29	704	0.3−	0.8−	2000 04 08	704	(2.4−	1.2+)
2000 03 12	704	0.1+	0.8−	2000 04 03	704	0.1−	0.3+	2000 04 08	704	0.5+	0.1−
2000 03 12	704	0.3+	1.1+	2000 04 03	704	0.1+	0.0	2000 04 08	704	0.1−	0.2−
2000 03 12	704	(1.4+	2.8+)	2000 04 03	704	0.2+	0.4+				
2000 03 29	704	0.0	0.2−	2000 04 03	704	0.0	0.0				

2000 FN₁₈ = 1979 MR₈ = 1979 OE₇Id. G. V. Williams, H. Oishi (d, *MPC* 11826)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	96.47871		(2000.0)	P	Q
<i>n</i>	0.22065383	ω	306.78167	+0.28824646	−0.94747022
<i>a</i>	2.7122418	Ω	125.89192	+0.92400873	−0.23723663
<i>e</i>	0.0952300	<i>i</i>	9.85199	+0.25124062	+0.21452033
<i>P</i>	4.47	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 6

Residuals in seconds of arc

1979 06 25	413	0.8+	0.3+	2000 03 29	704	0.2+	0.7+	2000 04 03	704	0.1+	0.4+
1979 06 29	413	(4.9+	0.9+)	2000 03 29	704	1.0−	0.7+	2000 04 03	704	1.3+	0.1−
1979 07 24	675	(4.3−	0.7−)	2000 03 29	704	1.2−	0.5−	2000 04 08	704	0.3−	0.1−
1979 07 24	413	0.8−	2.4−	2000 03 29	704	0.1−	0.3+	2000 04 08	704	0.4−	0.1+
1979 07 25	675	0.0	2.2+	2000 04 03	704	0.9+	0.7−	2000 04 08	704	0.5−	0.8−
2000 03 29	704	0.9+	0.4−	2000 04 03	704	0.1+	0.5+				

2000 APR. 18

M.P.C. 40227

2000 FT₁₉ = 1998 YL₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	265.75458		(2000.0)		P		Q				
<i>n</i>	0.27192823		ω	176.41967	+0.19833571		+0.97158049				
<i>a</i>	2.3595717		Ω	104.98829	−0.90254541		+0.23244576				
<i>e</i>	0.1094843		<i>i</i>	7.68675	−0.38219724		−0.04472494				
<i>P</i>	3.62 <th><i>H</i></th> <td>14.7<th><i>G</i></th><td>0.15<th><i>U</i></th><td>4</td></td></td>		<i>H</i>	14.7 <th><i>G</i></th> <td>0.15<th><i>U</i></th><td>4</td></td>	<i>G</i>	0.15 <th><i>U</i></th> <td>4</td>	<i>U</i>	4			
Residuals in seconds of arc											
1998 12 21	910	1.0−	0.2−	2000 03 12	704	0.1−	0.1−	2000 04 03	704	0.1+	0.5−
1998 12 21	910	0.6−	0.1−	2000 03 12	704	0.3+	0.4+	2000 04 03	704	0.1+	0.0
1998 12 21	910	0.5−	0.2+	2000 03 12	704	0.4+	0.1+	2000 04 03	704	0.3−	0.2−
1998 12 25	910	0.7+	0.1−	2000 03 26	699	0.1+	0.5+	2000 04 03	704	0.1−	0.3+
1998 12 26	910	0.8+	0.2+	2000 03 26	699	0.6+	0.2−	2000 04 03	704	0.8+	0.6+
1998 12 26	910	0.6+	0.0	2000 03 26	699	0.3+	0.1−	2000 04 08	704	0.8−	0.3+
2000 03 12	703	0.7−	0.0	2000 03 26	699	0.0	0.2+	2000 04 08	704	0.2−	0.4−
2000 03 12	703	0.0	0.2−	2000 03 29	704	0.2+	0.5+	2000 04 08	704	0.0	0.1−
2000 03 12	703	0.2−	0.2+	2000 03 29	704	0.1−	0.4−	2000 04 08	704	0.1−	0.5−
2000 03 12	703	0.6−	0.1−	2000 03 29	704	0.3+	0.1+	2000 04 08	704	0.3−	0.2+
2000 03 12	704	0.1+	0.5−	2000 03 29	704	0.0	0.0				

2000 FW₁₉ = 1998 XV₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	146.81773		(2000.0)		P		Q				
<i>n</i>	0.18216543	ω	300.02788		+0.89401182		−0.40903671				
<i>a</i>	3.0819487	Ω	84.64963		+0.44756279		+0.79640685				
<i>e</i>	0.0780322	<i>i</i>	10.58208		+0.02074665		+0.44544933				
<i>P</i>	5.41 <th><i>H</i></th> <td>13.0</td> <th><i>G</i></th> <td>0.15</td> <th><i>U</i></th> <td>4</td> <th></th> <th></th> <th></th>	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	4				
Residuals in seconds of arc											
1998 12 14	704	1.4−	0.5+	1999 01 16	704	0.6+	0.1+	2000 03 29	704	0.7−	0.4+
1998 12 14	704	0.4+	0.1−	1999 01 16	704	0.2−	0.4+	2000 03 29	704	0.6+	0.7+
1998 12 14	704	0.6+	0.4−	2000 03 05	704	0.0	0.1+	2000 04 03	704	1.0+	0.9−
1998 12 17	704	1.3+	0.9−	2000 03 05	704	0.6+	0.2+	2000 04 03	704	0.5−	0.3+
1998 12 17	704	1.1−	0.9+	2000 03 05	704	0.5−	0.2+	2000 04 03	704	0.3−	0.6−
1998 12 17	704	0.2+	0.3+	2000 03 12	704	0.0	0.3+	2000 04 09	608	0.1+	0.6−
1998 12 17	704	0.2−	0.5−	2000 03 12	704	0.5+	0.4+	2000 04 09	608	0.2+	0.9−
1998 12 17	704	0.9+	0.4+	2000 03 12	704	0.5−	0.2+	2000 04 09	608	0.0	0.6−
1999 01 16	704	0.9−	0.7−	2000 03 29	704	0.0	0.6+				
1999 01 16	704	0.3−	0.3−	2000 03 29	704	0.5−	0.1+				

2000 FD₂₀ = 1996 CL₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	283.79368		(2000.0)			P		Q			
n	0.27275627	ω	143.77117			+0.09715265		+0.98731096			
a	2.3547938	Ω	131.44355			−0.94800417		+0.13023052			
e	0.2040658	i	9.64659			−0.30306675		−0.09086843			
P	3.61 <th>H</th> <td>14.9</td> <th>G</th> <td>0.15<th>U</th><td>3</td><td></td><td></td><td></td></td>	H	14.9	G	0.15 <th>U</th> <td>3</td> <td></td> <td></td> <td></td>	U	3				
Residuals in seconds of arc											
1995 11 30	691	0.5+	0.1+	2000 02 06	704	0.3−	0.3−	2000 03 29	704	0.0	1.2−
1995 11 30	691	0.6+	0.5−	2000 02 06	704	0.2+	0.7−	2000 03 29	704	0.1+	0.7−
1995 11 30	691	0.3+	0.3−	2000 02 06	704	0.0	1.4+	2000 03 29	704	0.3−	1.1−
1996 02 10	327	0.1+	0.1−	2000 02 06	704	(0.3−	2.7+)	2000 04 03	704	0.2−	0.3+
1996 02 10	327	0.3+	0.7+	2000 03 12	703	0.3−	0.6−	2000 04 03	704	0.1+	0.4+
1996 02 10	327	0.7−	0.4+	2000 03 12	703	0.2+	0.1+	2000 04 03	704	0.4−	0.0
1996 02 10	327	1.0+	0.0	2000 03 12	703	0.5+	0.4+	2000 04 03	704	0.0	0.5+
1996 02 12	327	0.3−	0.1+	2000 03 12	703	0.2−	0.6+	2000 04 03	704	0.5+	0.4+
1996 02 12	327	0.8−	0.0	2000 03 12	704	0.3−	0.1+	2000 04 08	704	0.2−	0.3−
1996 02 12	327	0.6−	0.1+	2000 03 12	704	0.2−	0.5+	2000 04 08	704	0.3+	0.5+
1997 08 30	566	0.0	0.5+	2000 03 12	704	0.1+	0.3+	2000 04 08	704	0.9+	0.3−
1997 08 30	566	0.0	0.0	2000 03 12	704	0.1+	0.3+	2000 04 08	704	0.5+	0.1−
1997 08 30	566	0.2−	0.4+	2000 03 29	704	0.3−	0.1+	2000 04 08	704	0.7−	0.2−

2000 FH₂₀ = 1988 VN₁₂ = 1997 JZ₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	249.92679		(2000.0)		P		Q				
<i>n</i>	0.29825419	ω	241.73237		+0.40942539		+0.90470540				
<i>a</i>	2.2185966	Ω	52.92106		−0.77677675		+0.41339785				
<i>e</i>	0.0908152	<i>i</i>	8.49172		−0.47852767		+0.10300665				
<i>P</i>	3.30 <th><i>H</i></th> <td>14.7<th><i>G</i></th><td>0.15<th><i>U</i></th><td>1</td></td></td>	<i>H</i>	14.7 <th><i>G</i></th> <td>0.15<th><i>U</i></th><td>1</td></td>	<i>G</i>	0.15 <th><i>U</i></th> <td>1</td>	<i>U</i>	1				
Residuals in seconds of arc											
1988 11 04	327	0.6−	0.4+	1998 11 21	704	(1.5−	2.7+)	2000 03 29	704	0.6+	0.3+
1988 11 04	327	0.4+	0.1−	1998 11 25	699	0.3+	1.0+	2000 03 29	704	0.1−	0.3+
1997 05 03	809	(1.4+	2.3+)	1998 11 25	699	0.3+	0.8+	2000 03 29	704	0.5−	0.4+
1997 05 03	809	1.0+	1.4+	1998 11 25	699	0.5+	0.8+	2000 04 03	704	0.1−	0.2+
1997 05 03	809	0.1+	1.5+	1998 12 16	699	0.0	0.5+	2000 04 03	704	0.1−	0.3−
1997 05 04	809	(1.4+	3.8+)	1998 12 16	699	(2.8−	0.7−)	2000 04 03	704	0.3−	0.6−
1997 05 04	809	(1.0+	3.3+)	1998 12 16	699	0.9−	1.7−	2000 04 03	704	0.4−	0.6−
1997 05 04	809	(1.0+	2.8+)	2000 03 12	703	0.7−	0.6+	2000 04 03	704	0.4+	0.6−
1998 11 10	699	1.2+	0.4+	2000 03 12	703	0.5−	0.4+	2000 04 08	704	0.5−	0.3+
1998 11 10	699	0.1+	0.2−	2000 03 12	703	0.1−	0.1−	2000 04 08	704	0.4+	0.1+
1998 11 10	699	0.3−	0.7+	2000 03 12	703	0.5−	0.6+	2000 04 08	704	0.5+	0.1+
1998 11 18	704	0.2+	0.1+	2000 03 12	704	0.0	0.1−	2000 04 08	704	0.2−	1.5−
1998 11 18	704	0.1+	0.5−	2000 03 12	704	0.0	0.1−	2000 04 13	704	0.8−	0.2+
1998 11 18	704	0.1+	1.2−	2000 03 12	704	0.0	0.0	2000 04 13	704	0.6+	0.1−
1998 11 18	704	1.2−	1.4−	2000 03 12	704	0.7+	0.0	2000 04 13	704	0.3+	0.2−
1998 11 18	704	(7.0−	0.4−)	2000 03 26	699	0.1−	0.0	2000 04 13	608	0.1+	0.4−
1998 11 21	704	0.2−	1.5+	2000 03 26	699	0.4+	0.4+	2000 04 13	608	0.2+	0.0
1998 11 21	704	1.2−	1.4+	2000 03 26	699	0.2+	0.1+	2000 04 13	608	0.1+	0.2−
1998 11 21	704	(3.2−	0.1−)	2000 03 26	699	0.2−	0.3+				
1998 11 21	704	(1.7−	2.4+)	2000 03 29	704	0.4+	0.0				

2000 FN₂₀ = 1998 XR₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	12.81937		(2000.0)		P		Q				
n	0.17698230	ω	81.18061		−0.92398657		−0.36660168				
a	3.1418310	Ω	77.25565		+0.29208437		−0.86026792				
e	0.1538071	i	6.40853		+0.24685124		−0.35431952				
P	5.57	H	13.9	G	0.15	U	3				
Residuals in seconds of arc											
1998 12 15	104	0.7−	0.1+	2000 01 08	704	0.5+	0.9−	2000 03 29	704	0.4−	0.2−
1998 12 15	104	0.6−	0.1+	2000 01 08	704	0.6+	0.9−	2000 03 29	704	0.3−	0.1−
1998 12 15	104	0.4−	0.3+	2000 03 12	703	0.5+	0.9+	2000 03 29	704	0.1−	0.0
1998 12 15	104	0.8−	0.4+	2000 03 12	703	0.2−	0.8+	2000 03 29	704	0.1+	0.2−
1998 12 17	704	(2.5−	2.2−)	2000 03 12	703	0.0	0.2+	2000 04 03	704	0.2−	0.0
1998 12 17	704	(2.7−	0.9+)	2000 03 12	703	0.4−	0.5+	2000 04 03	704	0.7+	0.6−
1998 12 17	704	0.5+	0.3−	2000 03 12	704	0.3−	0.7+	2000 04 03	704	1.1+	0.7+
1998 12 17	704	1.1+	0.3+	2000 03 12	704	0.3+	0.0	2000 04 03	704	0.1+	0.7−
1998 12 18	104	0.7+	0.6−	2000 03 12	704	0.4+	0.4+	2000 04 03	704	0.8−	0.6−
1998 12 18	104	0.1+	0.4−	2000 03 12	704	0.6+	0.2+	2000 04 07	699	0.2−	0.5−
1998 12 18	104	0.0	0.4+	2000 03 12	704	0.3−	0.3−	2000 04 07	699	0.2−	1.0−
1998 12 18	104	0.3−	0.9+	2000 03 12	704	0.8+	0.6+	2000 04 07	699	0.2−	0.3−
1998 12 18	104	0.2−	1.0+	2000 03 12	704	0.8−	0.2+	2000 04 07	699	0.1+	0.2+
1998 12 23	104	0.2−	0.8−	2000 03 12	704	0.8+	1.7+	2000 04 08	704	0.0	0.3+
1998 12 23	104	0.3+	0.6−	2000 03 26	699	0.0	0.2−	2000 04 08	704	0.1−	0.0
1998 12 24	104	0.5+	0.5−	2000 03 26	699	0.4−	0.1−	2000 04 08	704	0.1−	0.3−
2000 01 08	704	0.7−	0.8−	2000 03 26	699	0.3−	0.3−	2000 04 08	704	0.3+	0.1+
2000 01 08	704	1.1−	0.3−	2000 03 26	699	0.3−	0.1−	2000 04 08	704	0.3+	0.3+

2000 FQ₂₀ = 1997 OT₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	324.32823		(2000.0)	P		Q		Williams	
<i>n</i>	0.26526623	ω	100.27686	-0.71559284	+0.69401049				
<i>a</i>	2.3989143	Ω	123.72528	-0.67236399	-0.65361113				
<i>e</i>	0.1867883	<i>i</i>	5.46592	-0.18935037	-0.30189721				
<i>P</i>	3.72	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1997 07 31	684	0.3-	0.5-	2000 03 29	704	0.0	0.5-	2000 04 03	704	0.5+	0.2-
1997 07 31	684	1.1-	0.6-	2000 03 29	704	0.2+	0.1-	2000 04 03	704	0.2+	0.6-
1997 07 31	684	0.8-	0.3-	2000 03 29	704	0.1+	0.0	2000 04 07	699	0.4+	0.9+
1997 08 01	684	0.5-	0.1-	2000 03 29	704	0.5-	0.5+	2000 04 07	699	0.8+	0.3+
1997 08 01	684	0.3-	0.0	2000 04 03	704	0.2-	0.1-	2000 04 07	699	0.1-	0.1+
1997 08 04	684	0.6-	0.2-	2000 04 03	704	0.4-	0.5-	2000 04 07	699	0.8-	0.1+
1997 08 04	684	0.5-	0.4+	2000 04 03	704	0.2-	0.1+				

2000 FR₂₀ = 1994 PR₂ = 1996 DU₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	162.34192		(2000.0)	P		Q		Williams	
<i>n</i>	0.27293762	ω	238.41830	+0.97732404	-0.18909920				
<i>a</i>	2.3537506	Ω	132.29366	+0.20980267	+0.92563503				
<i>e</i>	0.1328378	<i>i</i>	7.40110	-0.02864555	+0.32778236				
<i>P</i>	3.61	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1994 08 09	675	1.7-	1.0+	2000 02 06	704	0.2-	0.3+	2000 03 29	704	0.1+	0.4+
1994 08 09	675	0.3-	0.9+	2000 02 06	704	0.1-	0.6+	2000 03 29	704	0.5+	0.5-
1994 08 11	675	0.0	0.7+	2000 02 06	704	0.9-	1.4+	2000 04 03	704	0.4-	0.4-
1994 08 11	675	1.0+	0.6+	2000 03 12	703	0.2-	0.2-	2000 04 03	704	0.1-	0.6-
1996 02 09	552	1.7-	1.2-	2000 03 12	703	0.2-	0.4+	2000 04 03	704	0.3+	0.5+
1996 02 09	552	1.1-	0.5-	2000 03 12	703	0.4+	0.3-	2000 04 03	704	0.3-	0.4+
1996 02 16	010	0.0	0.4+	2000 03 12	703	0.5+	0.1+	2000 04 03	704	0.6-	0.2-
1996 02 16	010	0.3+	0.5+	2000 03 12	704	0.0	0.0	2000 04 07	699	0.9+	0.3-
1996 02 16	010	0.1-	0.5+	2000 03 12	704	0.0	0.3+	2000 04 07	699	0.3-	0.1-
1996 02 17	010	1.5+	1.0+	2000 03 12	704	0.1-	0.3+	2000 04 07	699	0.5-	0.0
1996 02 17	010	0.8+	0.5+	2000 03 12	704	0.2+	0.6+	2000 04 07	699	0.7-	0.6+
1996 02 17	010	0.8+	1.4+	2000 03 28	608	0.1-	0.2-	2000 04 08	704	0.4+	0.2-
1999 01 15	699	0.1-	0.3-	2000 03 28	608	0.1+	0.9-	2000 04 08	704	0.2+	0.5-
1999 01 15	699	0.1-	0.2-	2000 03 28	608	0.4+	1.0+	2000 04 08	704	0.0	0.0
1999 01 15	699	0.2+	0.4+	2000 03 29	704	0.1+	0.3+	2000 04 08	704	0.6+	0.9-
2000 02 06	704	0.1+	0.3-	2000 03 29	704	0.2-	0.2-	2000 04 08	704	0.2-	0.2-

2000 FB₂₁ = 1998 XG₆₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	70.36938		(2000.0)	P		Q		Williams	
<i>n</i>	0.21613030	ω	43.98799	-0.11217541	-0.97957368				
<i>a</i>	2.7499551	Ω	53.15783	+0.84434575	-0.18251425				
<i>e</i>	0.0698361	<i>i</i>	12.03658	+0.52392454	+0.08440349				
<i>P</i>	4.56	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1998 11 24	704	0.1-	0.1+	1998 12 17	704	1.1-	0.0	2000 03 29	704	0.2+	1.5+
1998 11 24	704	(3.6+	1.5+)	1998 12 17	704	(2.2-	1.1+)	2000 04 03	704	0.3-	0.0
1998 11 24	704	0.9+	0.1+	1998 12 17	704	0.4+	0.2-	2000 04 03	704	0.4+	0.7+
1998 11 24	704	0.7+	0.1+	1998 12 17	704	1.2-	1.4-	2000 04 03	704	0.2+	0.4+
1998 11 24	704	0.9-	1.0+	1998 12 17	704	1.3+	1.3+	2000 04 03	704	0.2-	0.5+
1998 12 11	699	1.1-	0.2+	2000 03 12	704	0.0	0.3-	2000 04 03	704	0.3-	0.6+
1998 12 11	699	0.0	0.2+	2000 03 12	704	0.2+	0.8-	2000 04 08	704	1.6+	0.0
1998 12 11	699	0.6-	0.1-	2000 03 12	704	0.3-	0.7-	2000 04 08	704	0.3+	0.5-
1998 12 14	704	1.2+	1.2+	2000 03 12	704	0.6-	1.2-	2000 04 08	704	0.3+	0.2-
1998 12 14	704	1.0-	0.9-	2000 03 29	704	0.4-	0.6-	2000 04 08	704	0.1+	0.3-
1998 12 14	704	1.5+	1.3-	2000 03 29	704	0.2-	0.6+	2000 04 08	704	0.2-	0.2-
1998 12 14	704	(3.4-	1.1+)	2000 03 29	704	0.7-	0.8+				

2000 FG₂₁ = 1998 XA₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	125.24999		(2000.0)	P		Q		Williams	
<i>n</i>	0.21345406	ω	306.44666	+0.76405240	-0.62047758				
<i>a</i>	2.7728929	Ω	92.59149	+0.63394403	+0.67121715				
<i>e</i>	0.1636760	<i>i</i>	10.18955	+0.11974514	+0.40555532				
<i>P</i>	4.62	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1998 12 15	704	0.0	0.2+	1998 12 22	704	(5.0-	0.2-)	2000 03 29	704	1.0+	0.1+
1998 12 15	704	0.1-	0.8-	1998 12 22	704	0.8-	0.9+	2000 04 03	704	0.5-	0.3-
1998 12 15	704	0.2-	0.9-	2000 03 12	704	0.4+	0.1-	2000 04 03	704	0.0	0.1-
1998 12 15	704	0.4-	0.7-	2000 03 12	704	1.0-	0.8-	2000 04 03	704	0.4-	0.1+
1998 12 15	704	1.5-	0.1+	2000 03 12	704	0.0	0.5-	2000 04 03	704	0.3-	0.0
1998 12 16	704	0.0	0.5-	2000 03 12	704	1.2-	1.1-	2000 04 08	704	1.2-	0.1-
1998 12 16	704	(2.1+	0.8-)	2000 03 29	704	0.4+	0.9+	2000 04 08	704	0.2+	0.2-
1998 12 16	704	1.4+	0.3+	2000 03 29	704	0.1-	0.2+	2000 04 08	704	1.2-	0.2+
1998 12 16	704	0.6+	1.4+	2000 03 29	704	0.9+	0.3+	2000 04 08	704	0.1-	0.1+
1998 12 16	704	1.2+	0.8+	2000 03 29	704	0.1+	0.4+	2000 04 13	704	0.3+	0.6+
1998 12 22	704	0.2-	1.4-	2000 03 29	704	0.2-	0.3+	2000 04 13	704	1.0+	0.5+
1998 12 22	704	(2.8+	1.5-)	2000 03 29	704	0.3+	1.1-	2000 04 13	704	0.1+	0.3+
1998 12 22	704	0.1-	0.8+	2000 03 29	704	0.6+	0.5+	2000 04 13	704	0.9+	0.2-

2000 FJ₂₁ = 1993 SU₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.64651		(2000.0)	P		Q		Williams	
<i>n</i>	0.23249369	ω	302.06045	+0.90058771	+0.40976000				
<i>a</i>	2.6193605	Ω	34.37995	-0.25859589	+0.77328283				
<i>e</i>	0.1095375	<i>i</i>	14.88419	-0.34938511	+0.48387024				
<i>P</i>	4.24	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1993 09 19	675	0.1+	0.2-	2000 03 12	704	0.0	0.2-	2000 04 03	704	0.7-	0.3-
1993 09 19	675	0.4+	0.3+	2000 03 12	704	0.6-	0.2-	2000 04 03	704	0.5-	0.6+
1993 09 23	675	0.2+	0.8-	2000 03 12	704	0.3+	0.2+	2000 04 03	704	0.4-	0.7+
1993 09 23	675	0.8-	0.7+	2000 03 29	704	0.1+	0.3+	2000 04 08	704	0.4+	0.1-
2000 03 12	703	0.4-	0.4+	2000 03 29	704	0.3-	0.1-	2000 04 08	704	0.1+	0.2-
2000 03 12	703	1.0-	0.5+	2000 03 29	704	0.2+	0.1-	2000 04 08	704	0.2+	0.9-
2000 03 12	703	0.9+	1.0-	2000 03 29	704	0.3+	0.2+	2000 04 08	704	1.1+	0.0
2000 03 12	703	0.5+	0.0	2000 04 03	704	0.1-	0.0	2000 04 08	704	0.5-	0.5-
2000 03 12	704	0.3+	0.2-	2000 04 03	704	0.1-	0.8+				

2000 FK₂₁ = 1996 GG₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.28365		(2000.0)	P		Q		Williams	
<i>n</i>	0.22714293	ω	269.83393	+0.60475549	+0.77906730				
<i>a</i>	2.6603364	Ω	38.98496	-0.58526360	+0.57550900				
<i>e</i>	0.1617671	<i>i</i>	15.23351	-0.54012713	+0.24868360				
<i>P</i>	4.34	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1996 04 15	809	0.7-	0.2+	2000 03 12	704	0.7-	0.5+	2000 04 03	704	0.5-	0.1-
1996 04 15	809	0.4-	0.0	2000 03 12	704	1.2+	1.8-	2000 04 03	704	0.1-	0.8+
1996 04 15	809	0.7-	0.7-	2000 03 29	704	0.2+	0.2+	2000 04 08	704	0.1-	0.7-
1996 04 17	809	1.3+	0.9+	2000 03 29	704	1.1-	1.0-	2000 04 08	704	0.2-	0.2-
1996 04 17	809	0.2-	0.1+	2000 03 29	704	0.1-	0.5+	2000 04 08	704	0.4+	0.2+
1996 04 17	809	0.7+	0.5-	2000 04 03	704	0.7+	0.4+				
2000 03 12	704	0.1+	1.0+	2000 04 03	704	0.3+	0.1+				

2000 APR. 18

M.P.C. 40229

2000 FM₂₁ = 1998 XR₄₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	143.01230		(2000.0)	P		Q					
<i>n</i>	0.21171355	ω	315.78423	+0.88580612		−0.43230314					
<i>a</i>	2.7880696	Ω	70.52462	+0.45971798		+0.76789298					
<i>e</i>	0.1713676	<i>i</i>	10.30824	+0.06330009		+0.47270960					
<i>P</i>	4.66	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4				
Residuals in seconds of arc											
1998 12 14	704	0.7+	0.4+	1999 01 16	704	0.4−	0.1−	2000 04 03	704	0.2−	0.1+
1998 12 14	704	0.2+	0.2−	1999 01 16	704	0.9+	0.5+	2000 04 03	704	0.5−	0.8−
1998 12 14	704	(2.9+	0.7−)	1999 01 16	704	0.5−	0.1−	2000 04 03	704	0.2+	0.5+
1998 12 17	704	0.6−	0.4−	2000 03 12	704	1.0−	1.0+	2000 04 03	704	0.3−	0.9−
1998 12 17	704	1.1−	1.3−	2000 03 12	704	1.2+	0.1−	2000 04 08	704	1.6−	0.6+
1998 12 17	704	1.1+	0.6+	2000 03 12	704	1.4+	0.3+	2000 04 08	704	0.2+	0.2+
1998 12 17	704	1.0−	0.4+	2000 03 29	704	0.0	0.3−	2000 04 08	704	0.3+	1.1−
1999 01 16	704	1.0+	1.4+	2000 03 29	704	0.0	0.1−	2000 04 08	704	0.5+	0.2+
1999 01 16	704	0.3−	1.2−	2000 03 29	704	0.3−	0.2+				

2000 FO₂₁ = 1996 JC₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	279.11260		(2000.0)	P			Q				
<i>n</i>	0.23776827	ω	123.96290	+0.21150623			+0.97315002				
<i>a</i>	2.5804777	Ω	157.71202	−0.95700873			+0.22506959				
<i>e</i>	0.1809800	<i>i</i>	13.85144	−0.19849281			−0.04819459				
<i>P</i>	4.15	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>		5			
Residuals in seconds of arc											
1996 05 11	327	0.2+	0.3−	2000 03 12	703	1.6−	0.6−	2000 04 03	704	0.9−	1.3+
1996 05 11	327	0.1−	0.2−	2000 03 12	704	0.7+	0.2+	2000 04 03	704	0.1−	0.3−
1996 05 11	327	0.6+	0.4−	2000 03 12	704	0.2+	0.2−	2000 04 03	704	0.3−	0.1−
1996 05 12	327	0.2−	0.1−	2000 03 12	704	0.2+	0.3−	2000 04 08	704	0.9+	0.4−
1996 05 12	327	0.6−	0.8+	2000 03 12	704	0.8+	0.8+	2000 04 08	704	0.2+	0.3−
1996 05 12	327	0.1+	0.4+	2000 03 29	704	(2.0+	2.4+)	2000 04 08	704	0.3−	0.5−
2000 03 12	703	0.2−	0.2+	2000 03 29	704	1.0+	0.1−	2000 04 08	704	0.4−	0.0
2000 03 12	703	0.7−	0.0	2000 03 29	704	1.3+	0.6−	2000 04 08	704	1.1−	0.3−
2000 03 12	703	0.5−	0.2−	2000 04 03	704	0.8+	1.3+				

2000 FV₂₁ = 1998 YL₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	71.00639		(2000.0)			P		Q		
<i>n</i>	0.19240362	ω	11.88469			−0.22823333		−0.95197446		
<i>a</i>	2.9716242	Ω	91.56372			+0.87570762		−0.29233561		
<i>e</i>	0.0584495	<i>i</i>	11.78089			+0.42549467		+0.09101930		
<i>P</i>	5.12	<i>H</i>	14.3			<i>G</i>	0.15	<i>U</i>	5	
Residuals in seconds of arc										
1998 12 17	704	0.2+	0.7−	1998 12 22	704	1.7−	1.4+	2000 04 03	704	0.2+ 0.0
1998 12 17	704	1.1+	1.3−	1998 12 22	704	0.6−	0.4+	2000 04 03	704	0.3+ 0.3+
1998 12 17	704	0.6−	1.5+	1998 12 22	704	0.3+	0.8+	2000 04 08	704	0.2− 0.3+
1998 12 17	704	(2.7+ 0.5+)		2000 03 29	704	0.3+	0.0	2000 04 08	704	0.7+ 0.3−
1998 12 17	704	1.5+	1.3+	2000 03 29	704	0.1−	0.6+	2000 04 08	704	0.4− 0.2−
1998 12 17	704	0.4+	0.5+	2000 03 29	704	0.3+	0.1−	2000 04 13	704	0.2− 1.4−
1998 12 17	704	0.9−	0.2−	2000 03 29	704	0.3−	0.4−	2000 04 13	704	0.6− 0.1−
1998 12 17	704	1.1−	1.0−	2000 04 03	704	0.1+	0.6+	2000 04 13	704	0.7+ 0.2+
1998 12 22	704	0.1−	1.0−	2000 04 03	704	0.2−	0.2+			
1998 12 22	704	1.3+	1.7−	2000 04 03	704	0.4−	0.2+			

2000 FF₂₂ = 1998 YK₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.12557		(2000.0)	P			Q				
<i>n</i>	0.17574424	<i>ω</i>	50.99357	−0.77806423			−0.61601847				
<i>a</i>	3.1565692	<i>Ω</i>	90.63180	+0.53160085			−0.75003368				
<i>e</i>	0.0954936	<i>i</i>	7.06765	+0.33468879			−0.24077112				
<i>P</i>	5.61	<i>H</i>	14.2	<i>G</i>	0.15		<i>U</i>	4			
Residuals in seconds of arc											
1998 12 17	704	0.4+	1.1+	2000 03 12	703	1.6−	0.2−	2000 04 07	699	0.6−	0.4−
1998 12 17	704	0.7+	1.0+	2000 03 12	704	0.3+	0.3+	2000 04 07	699	0.2−	1.2−
1998 12 17	704	1.6−	0.7−	2000 03 12	704	1.9+	1.3+	2000 04 07	699	0.3+	0.4+
1998 12 17	704	(0.3+	3.1+)	2000 03 12	704	0.2+	1.1+	2000 04 07	699	2.0+	0.1−
1998 12 22	704	0.6+	0.1+	2000 03 29	704	0.6−	0.2+	2000 04 08	704	0.6−	0.3+
1998 12 22	704	0.9−	0.1−	2000 03 29	704	0.5+	0.2−	2000 04 08	704	0.5+	0.5+
1998 12 22	704	0.5−	1.1−	2000 03 29	704	0.2+	1.4−	2000 04 08	704	0.7−	0.6−
1998 12 22	704	1.3+	0.5−	2000 04 03	704	0.2−	0.8−	2000 04 08	704	0.8−	0.4+
2000 03 12	703	0.2−	0.3−	2000 04 03	704	0.5+	0.0	2000 04 08	704	0.6−	0.6+
2000 03 12	703	0.8+	0.1−	2000 04 03	704	0.1+	0.3+				
2000 03 12	703	0.4−	0.1+	2000 04 03	704	0.6−	0.3−				

2000 FJ₂₂ = 1997 XB₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	54.67445		(2000.0)	P		Q					
<i>n</i>	0.17559775	ω	90.12540	−0.45127030	−0.88292217						
<i>a</i>	3.1583245	Ω	27.88259	+0.66799456	−0.43053393						
<i>e</i>	0.0252060	<i>i</i>	16.09225	+0.59172493	−0.18732053						
<i>P</i>	5.61	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4				
Residuals in seconds of arc											
1997 12 03	910	0.2+	0.2+	2000 03 26	699	0.2−	0.2+	2000 04 03	704	0.2+	0.6+
1997 12 03	910	0.2−	0.4+	2000 03 29	704	0.4+	0.8−	2000 04 03	704	0.5−	0.2+
1997 12 03	910	0.1−	0.2−	2000 03 29	704	0.2+	0.0	2000 04 08	704	0.2+	0.1−
1997 12 05	910	0.1+	0.1−	2000 03 29	704	0.0	0.6−	2000 04 08	704	0.0	0.0
1997 12 05	910	0.1+	0.1−	2000 03 29	704	0.6+	0.4−	2000 04 08	704	0.0	0.6−
1997 12 05	910	0.1−	0.1−	2000 03 29	704	0.1+	0.8−	2000 04 08	704	0.0	0.0
2000 03 26	699	0.6−	0.3+	2000 04 03	704	0.1−	0.1+	2000 04 08	704	0.1+	0.0
2000 03 26	699	0.1−	0.7+	2000 04 03	704	0.1+	0.7+				
2000 03 26	699	0.2+	0.0	2000 04 03	704	0.4−	0.6+				

2000 FZ₂₂ = 1983 GB

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	63.93974		(2000.0)	P			Q				
n	0.23822401	ω	64.20901	−0.40628068			−0.88863834				
a	2.5771856	Ω	51.43881	+0.71021894			−0.45359343				
e	0.0156177	i	15.78717	+0.57491310			−0.06763795				
P	4.14	H	14.2	G	0.15	U			5		
Residuals in seconds of arc											
1983 04 02	675	1.9−	0.4+	2000 03 15	699	1.7−	0.2+	2000 04 03	704	0.0	0.2−
1983 04 03	675	1.0−	0.3+	2000 03 29	704	0.4−	0.2+	2000 04 03	704	0.4+	0.5+
2000 03 11	703	0.4+	0.8−	2000 03 29	704	0.2−	0.0	2000 04 08	704	0.2+	0.1+
2000 03 11	703	1.3−	2.0+	2000 03 29	704	0.7−	0.1−	2000 04 08	704	0.2+	1.0−
2000 03 11	703	0.2−	0.5−	2000 03 29	704	0.2−	0.4+	2000 04 08	704	0.3+	0.3−
2000 03 11	703	0.6+	0.2−	2000 03 29	704	0.4−	0.7+	2000 04 08	704	0.3+	0.6−
2000 03 15	699	0.9+	0.2+	2000 04 03	704	0.2+	0.1+	2000 04 08	704	0.5+	0.0
2000 03 15	699	0.1−	0.4−	2000 04 03	704	0.2+	0.4+				
2000 03 15	699	0.3+	0.6−	2000 04 03	704	0.7+	0.1−				

2000 FE₂₃ = 1996 NH

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18212169	ω	252.41531	+0.98258517	−0.00737152		
<i>a</i>	3.0824421	Ω	107.69085	+0.07050154	+0.93928539		
<i>e</i>	0.1133670	<i>i</i>	11.23786	−0.17191835	+0.34305774		
<i>P</i>	5.41	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1996 07 14	566	0.2+	0.3−	2000 03 11	699	0.3−	0.4−
1996 07 14	566	0.1−	0.4−	2000 03 11	699	0.9−	0.2−
1996 07 14	566	0.1−	0.5−	2000 03 11	699	0.5−	0.1+
1996 07 15	566	0.1+	0.3−	2000 03 11	699	0.2−	0.7+
1996 07 15	566	0.0	0.3−	2000 03 11	699	1.2−	0.8+
1996 07 15	566	0.0	0.8−	2000 03 29	704	0.4+	0.2−
1999 01 19	704	1.2−	1.2−	2000 03 29	704	0.3+	0.5−
1999 01 19	704	0.4−	0.1−	2000 03 29	704	0.0	0.4−
1999 01 19	704	0.8+	1.0−	2000 03 29	704	0.5+	0.4−
1999 01 19	704	0.5+	0.6−	2000 03 29	704	0.1+	0.5−
2000 03 11	699	0.1−	0.4+	2000 04 03	704	0.5+	0.0
2000 03 11	699	0.3−	0.7+	2000 04 03	704	0.3+	0.3−
2000 03 11	699	0.2−	0.0	2000 04 03	704	0.3−	0.3−

2000 FF₂₃ = 1998 XP₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21526405	ω	14.55612	−0.31156887	−0.93422124		
<i>a</i>	2.7573276	Ω	93.82861	+0.85348948	−0.35547296		
<i>e</i>	0.1032470	<i>i</i>	10.02290	+0.41770868	+0.02948987		
<i>P</i>	4.58	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 12 15	910	0.1−	0.1−	2000 03 11	699	0.0	0.1−
1998 12 16	910	0.1−	0.0	2000 03 29	704	0.5+	0.9+
1998 12 16	910	0.1−	0.1+	2000 03 29	704	0.2+	0.3−
1998 12 16	910	0.1+	0.2−	2000 03 29	704	0.3−	0.0
1998 12 16	910	0.1−	0.5+	2000 03 29	704	0.1−	0.8+
1998 12 16	910	0.2+	0.3−	2000 03 29	704	0.0	0.8+
2000 03 11	699	0.4+	0.2+	2000 04 03	704	0.4+	0.4−
2000 03 11	699	0.4−	0.2+	2000 04 03	704	0.1−	0.6−
2000 03 11	699	0.3−	0.3−	2000 04 03	704	0.3+	0.3−

2000 FT₂₄ = 1990 WD₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23476726	ω	45.43386	−0.51497203	−0.82922838		
<i>a</i>	2.6024218	Ω	76.73803	+0.70958004	−0.55454276		
<i>e</i>	0.2251960	<i>i</i>	12.89533	+0.48093656	−0.06973258		
<i>P</i>	4.20	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1990 11 16	809	0.8−	1.5+	2000 03 15	704	0.4+	0.5+
1990 11 17	809	(0.0	2.7+)	2000 03 29	704	0.2−	0.1−
1990 11 22	809	0.5−	0.0	2000 03 29	704	0.1+	0.1−
1990 11 22	809	0.9+	0.8−	2000 03 29	704	0.4−	0.6−
1990 11 22	809	0.5+	0.7−	2000 03 29	704	0.1−	0.3−
2000 03 15	704	0.3+	0.2−	2000 04 03	704	0.3−	0.0
2000 03 15	704	0.1+	0.0	2000 04 03	704	0.2+	0.8−
2000 03 15	704	0.7+	0.1+	2000 04 03	704	0.1−	0.1−
2000 03 15	704	0.1−	0.5+	2000 04 03	704	0.1+	0.3−

2000 FW₂₄ = 1996 LD₁ = 1998 XP₆₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22539919	ω	128.78364	−0.95786803	+0.19520350		
<i>a</i>	2.6740395	Ω	63.39571	−0.27564195	−0.83087711		
<i>e</i>	0.0966061	<i>i</i>	13.62840	+0.08068680	−0.52109387		
<i>P</i>	4.37	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1996 06 13	566	0.2−	0.3+	1998 12 17	704	0.3+	0.7−
1996 06 13	566	0.0	0.6+	1998 12 17	704	0.2−	0.1+
1996 06 13	566	0.2+	0.4+	2000 02 04	704	0.1−	0.0
1996 06 14	566	0.0	0.5−	2000 02 04	704	0.2+	0.3−
1996 06 14	566	0.1+	0.5−	2000 02 04	704	0.1−	0.4+
1996 06 14	566	0.2−	0.4−	2000 02 04	704	0.4+	0.5+
1998 12 14	704	0.8+	0.2+	2000 03 11	703	0.2+	0.0
1998 12 14	704	0.2−	1.4−	2000 03 11	703	0.4−	0.2+
1998 12 14	704	0.6−	0.4+	2000 03 11	703	0.2+	0.4+
1998 12 17	704	0.2+	0.8+	2000 03 11	703	(2.4−	5.3+)
1998 12 17	704	0.3+	0.8−	2000 03 29	704	0.6−	0.4−
1998 12 17	704	0.5−	1.2+	2000 03 29	704	0.7−	0.6−

2000 FO₂₅ = 1968 TH = 1980 FD₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.19971319	ω	227.63297	+0.74899375	−0.66193600		
<i>a</i>	2.8986663	Ω	173.61489	+0.65838208	+0.73859051		
<i>e</i>	0.3456588	<i>i</i>	15.18994	+0.07440406	+0.12776850		
<i>P</i>	4.94	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1968 10 15	095	0.1+	0.9−	1999 04 07	704	0.2+	0.2−
1980 03 16	809	0.1−	0.6−	1999 04 07	704	0.0	0.9+
1980 03 16	809	0.1−	0.7−	1999 04 07	704	0.5−	0.3−
1980 03 16	809	0.1+	0.5−	1999 04 07	704	1.0−	1.2−
1980 03 16	809	0.3−	0.4−	2000 03 08	704	1.0−	0.2+
1980 03 17	809	0.3+	0.2+	2000 03 08	704	0.6−	0.3+
1980 03 17	809	0.0	0.1−	2000 03 08	704	0.3+	0.2+
1980 03 17	809	0.4−	0.1−	2000 03 08	704	0.2+	0.2−
1980 03 17	809	0.1+	0.7−	2000 03 27	699	0.5−	0.9+
1999 01 22	704	(4.3−	0.7−)	2000 03 27	699	0.3−	0.4+
1999 01 22	704	(3.6+	0.1+)	2000 03 27	699	0.5+	1.1+
1999 01 22	704	(0.7−	2.4−)	2000 03 27	699	0.3+	0.8+
1999 01 22	704	0.7+	1.2−	2000 03 29	704	0.3−	0.7−
1999 01 22	704	(2.4−	0.2−)	2000 03 29	704	0.1−	0.2+
1999 01 23	704	0.6−	1.3+	2000 03 29	704	0.0	0.3−
1999 01 23	704	0.2−	0.2+	2000 03 29	704	0.3+	0.2+
1999 01 23	704	0.2+	0.2+	2000 03 29	704	0.7+	0.0
1999 01 23	704	0.5+	0.7+	2000 04 02	699	0.1−	0.3−

2000 FQ₂₅ = 1979 HO₃ = 1991 RZ₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.18584949	ω	245.53935	+0.20134366	+0.97508532		
<i>a</i>	3.0410844	Ω	36.46719	−0.83239850	+0.22043169		
<i>e</i>	0.1856809	<i>i</i>	9.01274	−0.51630753	+0.02486937		
<i>P</i>	5.30	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1979 04 25	095	(8.7−	8.0+)	2000 03 08	704	0.8+	0.6+
1991 09 13	675	0.1−	0.4−	2000 03 27	699	0.2−	0.2+
1991 09 13	675	0.0	0.3−	2000 03 27	699	0.4+	0.3−
1991 09 15	675	1.5+	2.0−	2000 03 27	699	0.2+	0.1−
1991 09 15	675	0.1−	0.0	2000 03 27	699	0.1+	0.2−
1991 10 06	691	0.2−	0.6+	2000 03 29	704	0.3+	0.3+

2000 APR. 18

M.P.C. 40231

1991 10 06	691	0.3−	0.5+	2000 03 29	704	0.2+	0.1+	2000 04 08	704	0.2+	0.0
1991 10 06	691	0.0	0.4+	2000 03 29	704	0.3−	0.3−	2000 04 08	704	0.0	0.3+
1997 11 26	704	(2.8−	1.1+)	2000 03 29	704	0.2+	0.2−	2000 04 08	704	0.0	0.6−
1997 11 26	704	0.5−	1.7+	2000 03 29	704	0.1+	0.1−	2000 04 08	704	0.2+	1.0+
1997 11 26	704	(2.3−	2.1+)	2000 04 02	699	0.4+	0.5−	2000 04 08	704	0.2+	0.4−
1999 01 22	699	0.6+	1.3−	2000 04 02	699	0.8+	0.0	2000 04 08	704	0.2−	0.0
1999 01 22	699	0.1−	0.5−	2000 04 02	699	0.4+	0.1+	2000 04 10	704	0.1+	0.2−
1999 01 22	699	0.1+	0.0	2000 04 02	699	0.2−	0.2−	2000 04 10	704	0.1+	0.1−
1999 02 18	699	0.7−	0.0	2000 04 04	704	0.6+	0.2+	2000 04 10	704	0.4−	0.6−
1999 02 18	699	0.5+	0.3−	2000 04 04	704	0.8+	0.3−	2000 04 10	704	0.0	0.4+
1999 02 18	699	0.9−	1.0+	2000 04 04	704	0.8+	0.6+	2000 04 10	704	0.6−	0.1+
2000 01 10	704	0.2−	1.8−	2000 04 04	704	0.2+	0.3−	2000 04 10	704	0.0	0.3−
2000 01 10	704	0.8+	1.3−	2000 04 06	704	0.4−	0.3+	2000 04 10	704	0.1+	0.1−
2000 01 10	704	0.1+	1.1−	2000 04 06	704	0.0	0.3+	2000 04 10	704	0.1+	0.2+
2000 01 10	704	0.6+	1.1−	2000 04 06	704	0.0	0.3+	2000 04 10	704	0.5−	0.2−
2000 01 10	704	0.7+	1.0−	2000 04 06	704	0.4−	0.2+	2000 04 10	704	0.4+	0.5−
2000 01 13	699	0.6−	1.0+	2000 04 06	699	0.1+	0.0	2000 04 10	704	0.3−	1.1+
2000 01 13	699	0.6−	1.2+	2000 04 06	699	0.0	0.3+	2000 04 10	704	0.2−	0.3+
2000 01 13	699	0.5−	1.1+	2000 04 06	699	0.0	0.2+	2000 04 10	704	0.1+	0.2−
2000 03 01	703	0.2−	0.0	2000 04 06	699	0.3+	0.0	2000 04 10	704	0.3−	0.1+
2000 03 01	703	0.5−	0.2−	2000 04 07	699	0.1+	0.2−	2000 04 10	704	0.2−	0.5+
2000 03 01	703	0.4−	0.2+	2000 04 07	699	0.0	0.1+	2000 04 13	704	0.0	1.0+
2000 03 01	703	0.1−	0.0	2000 04 07	699	0.0	0.4+	2000 04 13	704	0.2+	0.1+
2000 03 08	704	0.5+	0.6−	2000 04 07	704	0.3−	0.1−	2000 04 13	704	0.4−	0.1+
2000 03 08	704	0.0	0.4−	2000 04 07	704	0.1−	0.2−	2000 04 13	704	0.8−	0.4−
2000 03 08	704	0.4−	0.3+	2000 04 07	699	0.1−	0.4+	2000 04 13	704	1.0−	0.7−
2000 03 08	704	0.1−	0.1+	2000 04 07	704	0.2−	0.1−				

2000 FS₂₅ = 1994 CY₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	195.12987		(2000.0)	P	Q
n	0.17598360	ω	292.19744	+0.98824544	+0.13851527
a	3.1537063	Ω	59.89355	−0.09751348	+0.89703088
e	0.0235962	i	4.28829	−0.11773729	+0.41970122
P	5.60	H	13.8	G 0.15	U 4

Residuals in seconds of arc

1994 02 08	809	0.0	0.8−	2000 03 29	704	1.0−	1.2−	2000 04 07	699	0.4−	0.3−
1994 02 08	809	0.6−	1.2−	2000 03 29	704	0.1−	0.4−	2000 04 07	699	0.0	0.1−
1994 02 08	809	0.8−	0.7−	2000 04 02	699	0.2+	0.0	2000 04 07	704	1.2+	0.1+
1994 02 10	809	0.0	1.1+	2000 04 02	699	0.7−	0.6−	2000 04 07	704	0.6+	0.9−
1994 02 10	809	0.3+	0.1−	2000 04 02	699	0.3−	0.0	2000 04 07	699	0.2−	0.1−
1994 02 10	809	0.0	0.7−	2000 04 02	699	1.1−	0.1−	2000 04 07	704	0.1−	0.9+
1998 12 21	704	0.8−	1.2−	2000 04 03	699	0.8−	0.1+	2000 04 07	704	0.8+	0.0
1998 12 21	704	0.6−	0.9+	2000 04 03	699	0.1+	0.4−	2000 04 07	704	0.4+	0.4−
1998 12 21	704	0.4−	1.1−	2000 04 03	699	0.2+	0.3+	2000 04 08	704	1.1+	0.2+
1998 12 21	704	0.2−	1.2+	2000 04 03	699	0.7−	0.0	2000 04 08	704	0.3+	0.4−
1998 12 21	704	(2.7−	0.4+)	2000 04 04	704	0.4+	0.1−	2000 04 08	704	0.3+	0.2+
1999 01 10	699	0.6+	0.7+	2000 04 04	704	1.2+	0.1+	2000 04 08	704	0.1−	0.9+
1999 01 10	699	0.8+	0.5+	2000 04 04	704	0.1+	0.5+	2000 04 08	704	0.5+	0.4−
1999 01 10	699	0.7+	0.7+	2000 04 04	704	0.0	0.3+	2000 04 08	704	1.2−	0.1−
2000 03 27	699	0.4−	0.2+	2000 04 04	704	0.5−	0.4+	2000 04 08	704	0.2−	0.1−
2000 03 27	699	0.5−	0.5+	2000 04 06	699	0.3+	0.6−	2000 04 10	704	0.0	0.2+
2000 03 27	699	0.2−	0.4−	2000 04 06	699	0.6+	0.4−	2000 04 10	704	0.5+	0.6+
2000 03 27	699	0.9−	0.7+	2000 04 06	699	0.0	0.4+	2000 04 10	704	0.3−	0.6+
2000 03 29	704	1.1+	0.8−	2000 04 06	699	0.2+	1.0+	2000 04 10	704	0.4+	0.5+
2000 03 29	704	0.3−	0.2+	2000 04 07	699	0.2+	0.4+				

2000 FT₂₅ = 1995 DW₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	83.82471		(2000.0)	P	Q
n	0.20342896	ω	6.72659	-0.16610092	-0.98448897
a	2.8632605	Ω	92.84548	+0.90208108	-0.17484027
e	0.0170043	i	3.24279	+0.39832174	-0.01457222
P	4.84	H	14.9	G 0.15	U 6

Residuals in seconds of arc

1995 02 25	691	0.1−	0.0	2000 03 27	699	0.4+	0.4+	2000 04 06	699	0.1+	1.3+
1995 02 25	691	0.3−	0.0	2000 04 02	699	0.4−	0.2+	2000 04 08	704	0.7−	0.3−
1995 02 25	691	0.3+	0.1−	2000 04 02	699	0.2+	0.3−	2000 04 08	704	1.8+	1.2−
1995 03 04	691	0.0	0.1+	2000 04 02	699	(2.2−	0.2−)	2000 04 08	704	0.8−	0.3−
1995 03 04	691	0.1+	0.1+	2000 04 02	699	0.9−	0.3−	2000 04 08	704	0.7+	0.5−
2000 03 27	699	0.0	0.3−	2000 04 06	699	0.2+	0.3−	2000 04 08	704	0.7−	0.8+
2000 03 27	699	0.2−	0.2−	2000 04 06	699	0.1+	0.2+	2000 04 08	704	0.6−	0.6+
2000 03 27	699	0.2−	0.1+	2000 04 06	699	0.8+	0.1+				

2000 FW₂₅ = 1998 XW₆₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	160.58411		(2000.0)	P	Q
n	0.26820840	ω	342.40270	+0.93876215	−0.33480370
a	2.3813385	Ω	37.47553	+0.33004187	+0.80581941
e	0.1487466	i	7.69216	+0.09898477	+0.48842764
P	3.67	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1998 08 31	704	0.7+	0.5−	2000 03 27	699	0.8+	0.1−	2000 04 07	704	0.5−	0.2+
1998 08 31	704	1.7−	0.2+	2000 03 29	704	0.1+	0.1−	2000 04 07	704	0.1−	0.4+
1998 08 31	704	(2.9−	2.2+)	2000 03 29	704	0.5+	0.1−	2000 04 07	704	0.0	0.5+
1998 08 31	704	0.4−	1.0+	2000 03 29	704	0.4+	0.4−	2000 04 07	704	0.0	0.5+
1998 08 31	704	0.1−	1.7+	2000 03 29	704	0.2+	0.2+	2000 04 08	704	0.0	0.2−
1998 12 14	704	(1.4+	3.1+)	2000 03 29	704	0.7+	0.2+	2000 04 08	704	0.2+	0.1+
1998 12 14	704	(0.3+	2.4+)	2000 04 02	699	0.7−	0.4−	2000 04 08	704	0.8+	1.6+
1998 12 14	704	(0.2−	3.3+)	2000 04 02	699	0.5+	0.0	2000 04 08	704	0.6+	0.3−
1998 12 17	704	0.5−	1.4+	2000 04 02	699	0.1−	0.0	2000 04 08	704	0.0	0.0
1998 12 17	704	0.6+	0.4−	2000 04 02	699	0.7−	0.2−	2000 04 08	704	0.4−	0.0
1998 12 17	704	0.5−	1.0−	2000 04 03	699	0.6−	0.9−	2000 04 08	704	0.1−	0.1+
1998 12 17	704	0.2+	0.4−	2000 04 03	699	0.3−	0.2+	2000 04 08	704	0.6+	0.2−
1998 12 17	704	0.8+	0.4−	2000 04 03	699	0.3−	0.4−	2000 04 08	704	0.2+	0.7−
2000 03 01	703	0.6+	0.3−	2000 04 03	699	0.1+	0.1+	2000 04 08	704	0.5−	0.3+
2000 03 01	703	1.2+	0.3−	2000 04 04	704	1.4−	0.6+	2000 04 10	704	0.5−	0.4−
2000 03 01	703	(2.2+	1.3+)	2000 04 04	704	0.3−	0.2+	2000 04 10	704	0.4−	0.2+
2000 03 01	703	0.5−	0.4−	2000 04 04	704	0.8+	0.4+	2000 04 10	704	0.9−	0.3−
2000 03 27	699	0.5−	0.1+	2000 04 04	704	0.6−	0.4−	2000 04 10	704	1.2−	0.9+
2000 03 27	699	0.7+	0.1+	2000 04 04	704	1.7+	0.2+				
2000 03 27	699	0.0	0.3+	2000 04 07	704	0.7+	0.3−				

2000 FZ₂₅ = 1980 TO₉ = 1987 SK₂₉ = 1993 FR₃₃ = 1998 XO₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	215.00629		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.27988361	ω	304.77072	+0.90297366	+0.42440884
a	2.3146451	Ω	30.27824	−0.33767862	+0.79758677
e	0.1472933	i	7.65909	−0.26572866	+0.42864026
P	3.52	H	13.8	G 0.15	U 1

Residuals in seconds of arc

1980 10 13	095	0.9+	0.8−	2000 03 08	704	0.1−	0.3−	2000 04 04	704	0.0	0.2+
1987 09 24	095	(7.3−	4.2+)	2000 03 08	704	0.0	0.5+	2000 04 04	704	0.2+	0.1+
1993 03 19	809	0.2+	0.6−	2000 03 08	704	0.1−	0.7+	2000 04 06	699	0.4−	0.5+
1993 03 20	809	0.3−	0.4+	2000 03 27	699	0.8−	0.1+	2000 04 06	699	0.3−	0.0
1993 03 24	809	1.6−	0.6+	2000 03 27	699	0.3−	0.4−	2000 04 06	699	0.2−	0.2+
1994 11 01	033	0.0	0.5+	2000 03 27	699	0.3−	0.1+	2000 04 06	699	0.4−	0.2+
1994 11 01	033	0.9−	0.5+	2000 03 27	699	1.0−	1.0−	2000 04 08	704	0.2+	0.2−
1998 12 14	704	1.3+	0.0	2000 03 29	704	0.3−	0.1−	2000 04 08	704	0.7+	0.0
1998 12 14	704	0.9−	0.4−	2000 03 29	704	0.2−	0.3−	2000 04 08	704	0.4+	0.6−
1998 12 14	704	0.6+	0.1−	2000 03 29	704	0.0	0.2+	2000 04 08	704	0.1+	0.2−
1998 12 14	704	0.5+	0.3−	2000 03 29	704	0.1+	0.0	2000 04 08	704	0.6+	0.2+
1998 12 17	704	1.1−	0.2+	2000 03 29	704	0.1+	0.1+	2000 04 08	704	0.4+	0.0
1998 12 17	704	0.4−	0.6+	2000 04 02	699	0.4+	0.8−	2000 04 08	704	0.5+	0.0
1998 12 17	704	0.5−	0.7+	2000 04 02	699	0.1+	0.3−	2000 04 08	704	0.9+	0.7+
1998 12 17	704	0.1+	0.7−	2000 04 02	699	0.2−	0.2−	2000 04 08	704	0.6+	0.8−
1998 12 17	704	(0.8−	2.3+)	2000 04 02	699	0.1+	0.0	2000 04 08	704	0.7+	0.4−
2000 03 01	703	0.2+	0.2+	2000 04 03	699	0.1+	0.3−	2000 04 10	704	0.3+	0.3−

M.P.C. 40232

2000 APR. 18

2000 03 01	703	0.0	0.1−	2000 04 03	699	0.3−	0.1+	2000 04 10	704	0.1−	0.3−
2000 03 01	703	0.2+	0.1+	2000 04 03	699	0.0	0.1−	2000 04 10	704	0.2−	0.0
2000 03 01	703	0.4+	0.2−	2000 04 03	699	0.3−	0.0	2000 04 10	704	0.2+	0.0
2000 03 08	704	0.4−	0.6+	2000 04 04	704	0.3+	0.5+	2000 04 10	704	0.3+	0.5+
2000 03 08	704	0.1+	0.1+	2000 04 04	704	0.1−	0.6+				

2000 FE₂₆ = 1991 UW₁ = 1998 XM₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	203.03501		(2000.0)	P	Q		
<i>n</i>	0.28694401	ω	303.05832	+0.95646194	+0.28714177		
<i>a</i>	2.2765190	Ω	40.32369	−0.23355633	+0.86039495		
<i>e</i>	0.1103485	<i>i</i>	4.63144	−0.17502001	+0.42103460		
<i>P</i>	3.43	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 10 29	400	0.5−	1.0+	2000 03 08	704	0.2+	0.5+	2000 04 03	699	0.3+	0.2+
1991 10 29	400	(1.2+	2.9+)	2000 03 08	704	0.3+	0.3−	2000 04 04	704	0.5−	0.0
1991 10 31	400	(3.4−	0.2+)	2000 03 08	704	0.2+	0.2−	2000 04 04	704	0.4+	0.3−
1991 10 31	400	0.4−	1.5+	2000 03 08	704	0.2+	0.0	2000 04 04	704	0.2+	0.0
1998 08 31	704	0.6−	0.5+	2000 03 08	704	0.7−	0.4−	2000 04 04	704	0.2−	0.0
1998 08 31	704	0.4−	0.8−	2000 03 27	699	0.8−	0.9+	2000 04 04	704	0.3−	1.1−
1998 08 31	704	1.1+	0.7−	2000 03 27	699	0.3−	0.2+	2000 04 06	699	0.1−	0.2+
1998 08 31	704	0.5−	0.9+	2000 03 27	699	0.1−	0.3−	2000 04 06	699	0.4−	0.1+
1998 12 14	704	0.1+	0.5+	2000 03 27	699	0.7−	0.5+	2000 04 06	699	0.1+	0.4+
1998 12 14	704	1.5+	0.9+	2000 03 29	704	0.4+	0.1+	2000 04 06	699	0.3−	0.3+
1998 12 14	704	0.8+	1.0−	2000 03 29	704	0.1+	0.1−	2000 04 08	704	0.2−	0.4+
1998 12 14	704	0.1+	0.3−	2000 03 29	704	0.1+	0.1−	2000 04 08	704	0.0	0.7+
1998 12 14	704	0.9+	0.1+	2000 03 29	704	0.2+	0.0	2000 04 08	704	0.3+	0.4+
1998 12 17	704	0.5−	0.0	2000 03 29	704	0.4+	0.5−	2000 04 08	704	0.1−	0.5+
1998 12 17	704	0.2−	0.0	2000 04 02	699	0.2+	0.2−	2000 04 08	704	0.0	0.5+
1998 12 17	704	0.3−	0.3−	2000 04 02	699	0.3+	0.3−	2000 04 10	704	1.0−	0.4+
1998 12 17	704	0.6−	0.8−	2000 04 02	699	0.1−	0.1+	2000 04 10	704	0.4+	0.4−
1998 12 17	704	1.4−	0.5−	2000 04 02	699	1.2+	0.2−	2000 04 10	704	0.3−	1.0−
1999 01 06	699	0.6−	0.1+	2000 04 03	699	0.3+	0.5+	2000 04 10	704	0.4+	0.1−
1999 01 06	699	0.5+	0.5−	2000 04 03	699	0.4+	0.1+				
1999 01 06	699	0.5+	0.1+	2000 04 03	699	0.5+	0.1+				

2000 FL₂₆ = 1991 TY₁₁ = 1999 CE₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	199.08616		(2000.0)	P	Q		
<i>n</i>	0.17305537	ω	320.02114	+0.97655965	+0.18754933		
<i>a</i>	3.1891821	Ω	29.67808	−0.09774948	+0.82360944		
<i>e</i>	0.1061873	<i>i</i>	12.31746	−0.19177146	+0.53525017		
<i>P</i>	5.70	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 10 11	691	0.3−	0.4+	1999 02 13	704	0.4+	1.2+	2000 03 29	704	0.5+	0.3+
1991 10 11	691	0.3−	0.1+	1999 02 13	704	0.6+	1.6+	2000 04 02	699	0.1−	0.4−
1991 10 11	691	0.1+	0.1+	2000 03 01	703	0.9−	0.6−	2000 04 02	699	0.6−	0.2+
1991 10 13	691	0.1+	0.2+	2000 03 01	703	0.2−	1.0−	2000 04 02	699	0.8−	0.6+
1991 10 13	691	0.2−	0.1+	2000 03 01	703	(2.7−	0.1−)	2000 04 02	699	0.5−	0.6+
1991 10 13	691	0.1−	0.1+	2000 03 01	703	0.2−	0.7+	2000 04 08	704	0.3−	0.1+
1999 02 10	704	0.1+	0.5−	2000 03 27	699	0.0	0.1−	2000 04 08	704	0.1+	0.4+
1999 02 10	704	0.7−	0.6−	2000 03 27	699	0.2−	0.2+	2000 04 08	704	0.4−	0.5−
1999 02 10	704	0.5+	0.7+	2000 03 27	699	0.3−	0.4+	2000 04 08	704	0.1−	0.5+
1999 02 10	704	1.4+	0.9−	2000 03 27	699	0.0	0.3−	2000 04 08	704	0.2−	0.5+
1999 02 10	704	1.8−	0.4+	2000 03 29	704	1.2+	0.9−	2000 04 10	704	0.8+	0.4−
1999 02 13	704	0.4−	0.8−	2000 03 29	704	0.5+	0.4−	2000 04 10	704	0.7+	0.3−
1999 02 13	704	0.2−	1.1−	2000 03 29	704	0.1+	0.0	2000 04 10	704	0.3+	1.2+
1999 02 13	704	(0.2+	2.4+)	2000 03 29	704	0.3+	0.2+	2000 04 10	704	1.0+	0.2−

2000 FQ₂₆ = 1995 BN₁₃ = 1998 XB₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	79.77910		(2000.0)	P	Q		
<i>n</i>	0.21884309	ω	65.76648	−0.13133607	−0.99120207		
<i>a</i>	2.7271822	Ω	31.79380	+0.89786346	−0.12595308		
<i>e</i>	0.0421790	<i>i</i>	1.78490	+0.42022856	−0.04067290		
<i>P</i>	4.50	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 01 31	691	0.0	0.2−	2000 03 01	703	0.0	0.3+	2000 04 02	699	0.3−	0.6+
1995 01 31	691	0.0	0.2−	2000 03 01	703	0.0	0.0	2000 04 02	699	0.6−	0.3−
1995 01 31	691	0.1−	0.1−	2000 03 08	704	0.1+	0.0	2000 04 05	704	0.0	0.3−
1995 02 05	691	0.0	0.1−	2000 03 08	704	0.8+	0.5−	2000 04 05	704	0.0	0.5−
1995 02 05	691	0.1−	0.1+	2000 03 08	704	0.4+	0.1+	2000 04 05	704	0.4+	0.4−
1995 02 05	691	0.0	0.2+	2000 03 08	704	0.3−	0.2−	2000 04 05	704	0.3+	0.5−
1998 12 14	704	0.3+	1.3−	2000 03 08	704	(2.9−	1.9−)	2000 04 05	704	0.4+	0.4−
1998 12 14	704	0.7+	0.7+	2000 03 11	704	0.0	0.2+	2000 04 06	704	0.4+	0.2−
1998 12 14	704	0.8−	1.8+	2000 03 11	704	0.1−	0.4+	2000 04 06	704	0.1−	0.1−
1998 12 14	704	0.3−	1.0−	2000 03 11	704	0.2−	0.0	2000 04 06	704	0.2−	0.3−
1998 12 17	704	0.0	0.3+	2000 03 11	704	0.2−	0.3−	2000 04 06	704	0.2+	0.0
1998 12 17	704	0.4+	1.6+	2000 03 27	699	0.5−	0.1+	2000 04 06	704	0.2+	0.4−
1998 12 17	704	0.6+	1.4−	2000 03 27	699	0.4−	0.2+	2000 04 10	704	0.2+	0.1+
1998 12 17	704	0.4−	0.1+	2000 03 27	699	0.1+	0.5+	2000 04 10	704	0.3−	0.2−
1998 12 17	704	0.4−	0.6−	2000 03 27	699	0.7−	0.0	2000 04 10	704	(2.1+	0.8−)
2000 03 01	703	0.4+	0.2+	2000 04 02	699	0.6−	0.1+	2000 04 10	704	0.8+	1.0+
2000 03 01	703	0.3−	0.4+	2000 04 02	699	0.4−	0.9+	2000 04 10	704	0.6+	0.1+

2000 FS₂₆ = 1982 SL₃ = 1998 VS₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	36.92807		(2000.0)	P	Q		
<i>n</i>	0.25295653	ω	116.23357	−0.74934070	−0.66037253		
<i>a</i>	2.4761225	Ω	22.54390	+0.55282434	−0.66457151		
<i>e</i>	0.0659775	<i>i</i>	7.33616	+0.36451852	−0.34964672		
<i>P</i>	3.90	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1982 09 24	033	0.3−	0.6−	2000 03 01	703	0.2−	0.2−	2000 04 04	704	0.1+	0.4−
1982 09 24	033	0.8+	0.2−	2000 03 08	704	0.6+	0.1−	2000 04 04	704	0.2−	0.0
1998 10 19	699	0.2+	0.4−	2000 03 08	704	0.5+	0.3−	2000 04 05	704	0.2−	0.0
1998 10 19	699	0.6+	0.5+	2000 03 08	704	0.2+	0.1+	2000 04 05	704	0.0	0.1−
1998 10 19	699	0.7−	0.9+	2000 03 08	704	0.1+	0.0	2000 04 05	704	0.1+	0.1−
1998 11 10	704	0.8+	0.1+	2000 03 08	704	0.7+	0.2+	2000 04 05	704	0.2+	0.0
1998 11 10	704	0.7+	0.4+	2000 03 27	699	0.8−	0.2+	2000 04 05	704	0.1−	0.2+
1998 11 10	704	0.4+	0.3−	2000 03 27	699	0.8−	0.6+	2000 04 06	704	0.2−	0.1−
1998 11 10	704	0.6+	0.2−	2000 03 27	699	0.8−	0.4+	2000 04 06	699	0.0	0.0
1998 11 10	704	0.7+	0.5−	2000 03 27	699	0.7−	0.4+	2000 04 06	704	0.8−	0.3+
1998 11 10	699	0.0	0.5+	2000 04 02	699	0.2+	0.0	2000 04 06	699	0.2−	0.2+
1998 11 10	699	0.1+	0.4+	2000 04 02	699	0.5+	0.3−	2000 04 06	704	0.3−	0.2+
1998 11 10	699	0.4+	0.2−	2000 04 02	699	0.2+	0.2−	2000 04 06	699	0.1−	0.1+
1998 11 11	704	1.1−	0.0	2000 04 02	699	0.1+	0.6−	2000 04 06	704	0.2−	0.2+
1998 11 11	704	1.4−	0.1+	2000 04 03	699	0.1+	0.2−	2000 04 06	704	0.4−	0.4+
1998 11 11	704	1.5−	1.3−	2000 04 03	699	0.1−	0.2−	2000 04 06	699	0.0	0.0
1998 11 11	704	1.1+	0.1−	2000 04 03	699	0.3+	0.0	2000 04 10	704	0.1+	0.0
1998 11 11	704	0.7−	0.1+	2000 04 03	699	0.2+	0.1−	2000 04 10	704	0.1−	0.0
2000 03 01	703	0.1−	0.2−	2000 04 04	704	0.6+	0.1−	2000 04 10	704	0.3+	0.5−
2000 03 01	703	0.0	0.2+	2000 04 04	704	0.1−	0.2−	2000 04 10	704	0.2+	0.3−
2000 03 01	703	0.1−	0.0	2000 04 04	704	0.3+	0.1−	2000 04 10	704	0.1+	0.2−

2000 APR. 18

M.P.C. 40233

2000 FU₂₆ = 1991 TU₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	263.56505	(2000.0)	P		Q	
<i>n</i>	0.18708156	<i>ω</i>	286.44073	+0.60244148	+0.79725042	
<i>a</i>	3.0277178	<i>Ω</i>	20.74628	−0.68504229	+0.54100279	
<i>e</i>	0.2331413	<i>i</i>	6.18396	−0.40961118	+0.26778304	
<i>P</i>	5.27	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1991 10 01	691	0.2+	0.3+	2000 03 10	704	1.1+	0.5+	2000 04 05	704	0.6+	0.1+
1991 10 01	691	0.4+	0.0	2000 03 27	699	0.8−	0.1−	2000 04 06	699	0.3−	0.1+
1991 10 01	691	0.2−	0.0	2000 03 27	699	0.7−	0.2−	2000 04 06	704	0.1+	0.4+
1991 10 13	691	0.1−	0.0	2000 03 27	699	0.0	0.1−	2000 04 06	699	0.5−	0.9+
1991 10 13	691	0.2−	0.1−	2000 03 27	699	0.4−	0.0	2000 04 06	704	0.2−	0.4+
1991 10 13	691	0.2−	0.1−	2000 04 02	699	0.6−	0.1−	2000 04 06	699	0.1+	0.5+
2000 03 01	703	0.0	0.1+	2000 04 02	699	0.3+	0.1−	2000 04 06	704	0.2+	0.4+
2000 03 01	703	0.7−	0.0	2000 04 02	699	0.4−	0.1+	2000 04 06	699	0.1−	0.4+
2000 03 01	703	0.1+	0.8+	2000 04 02	699	0.1−	0.3−	2000 04 06	691	0.6−	0.4−
2000 03 01	703	0.3−	0.9−	2000 04 04	704	1.2+	0.3+	2000 04 06	704	0.3+	0.8+
2000 03 08	704	0.3−	0.1+	2000 04 04	704	0.8+	0.3−	2000 04 06	691	0.4−	0.2−
2000 03 08	704	0.1−	0.3−	2000 04 04	704	0.1−	0.4+	2000 04 06	691	0.5−	0.4−
2000 03 08	704	0.0	0.7+	2000 04 04	704	1.2+	0.5−	2000 04 08	691	0.4−	0.3−
2000 03 08	704	0.3−	0.1+	2000 04 04	704	0.7+	0.5+	2000 04 08	691	0.5−	0.3−
2000 03 10	704	0.2−	0.8−	2000 04 05	704	0.2+	0.1−	2000 04 08	691	0.5−	0.3−
2000 03 10	704	0.2+	0.1+	2000 04 05	704	0.5+	0.2+	2000 04 12	691	0.1−	0.6−
2000 03 10	704	0.0	0.3−	2000 04 05	704	0.4+	0.4+	2000 04 12	691	0.0	0.6−
2000 03 10	704	0.8+	0.7−	2000 04 05	704	0.3+	0.3+	2000 04 12	691	0.0	0.6−

2000 FY₂₆ = 1998 SM₁₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.78517	(2000.0)	P		Q	
<i>n</i>	0.29179647	<i>ω</i>	343.96134	−0.60228147	−0.79771277	
<i>a</i>	2.2512101	<i>Ω</i>	143.05709	+0.73782058	−0.57070284	
<i>e</i>	0.0854639	<i>i</i>	2.87913	+0.30475863	−0.19481426	
<i>P</i>	3.38	<i>H</i>	15.7	<i>G</i>	0.15	<i>U</i> 4

Residuals in seconds of arc

1998 09 26	704	0.4+	1.1−	2000 03 27	699	0.2+	1.1+	2000 04 06	699	0.5−	0.2+
1998 09 26	704	0.5−	0.1−	2000 03 27	699	0.8−	1.7+	2000 04 06	699	0.6−	0.6−
1998 09 26	704	1.1−	1.4−	2000 03 27	699	1.2−	1.1+	2000 04 07	699	0.2+	0.4−
1998 09 26	704	(2.3+ 0.1−)		2000 03 29	704	0.6+	0.2+	2000 04 07	699	0.2−	0.1−
1998 09 26	704	(1.4+ 2.2−)		2000 03 29	704	0.0	0.2+	2000 04 07	699	0.7−	0.4+
1998 09 27	704	0.6+	0.1+	2000 03 29	704	1.0+	0.5+	2000 04 07	699	0.4+	0.2−
1998 09 27	704	1.3+	1.0+	2000 03 29	704	0.1−	0.2+	2000 04 08	704	1.2+	0.1−
1998 09 27	704	0.8−	1.0+	2000 03 29	704	0.1+	0.7+	2000 04 08	704	0.6+	0.1−
1998 09 27	704	0.0	1.3+	2000 04 02	699	0.2−	0.1−	2000 04 08	704	1.3+	0.1+
1998 09 27	704	(2.2− 1.8+)		2000 04 02	699	0.3+	0.6−	2000 04 08	704	0.1−	0.1+
1998 10 19	699	0.6−	0.4+	2000 04 02	699	0.1+	0.3−	2000 04 10	704	0.8−	0.4−
1998 10 19	699	0.7+	0.5−	2000 04 02	699	0.6−	0.2+	2000 04 10	704	0.6−	0.0
1998 10 19	699	0.3−	0.1−	2000 04 04	704	0.9+	0.1−	2000 04 10	704	0.9−	0.5−
2000 03 08	704	0.8+	0.1−	2000 04 04	704	0.3+	0.2+	2000 04 10	704	0.4−	0.6−
2000 03 08	704	0.6+	0.5−	2000 04 04	704	0.1−	0.3−	2000 04 10	704	0.1−	0.5+
2000 03 08	704	0.1−	0.4−	2000 04 04	704	0.1+	0.1+	2000 04 13	704	0.6+	0.1+
2000 03 08	704	0.2−	0.8−	2000 04 04	704	0.0	0.3+	2000 04 13	704	0.9+	0.3−
2000 03 08	704	0.2+	1.0−	2000 04 06	699	0.9−	0.2−	2000 04 13	704	0.3−	0.3+
2000 03 27	699	0.6−	0.9+	2000 04 06	699	0.3−	0.1−	2000 04 13	704	0.4+	0.9−

2000 FE₂₇ = 1993 FO₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	68.08935	(2000.0)	P		Q	
<i>n</i>	0.28172921	<i>ω</i>	295.89744	−0.30757023	−0.95138185	
<i>a</i>	2.3045252	<i>Ω</i>	171.96234	+0.90983415	−0.29913452	
<i>e</i>	0.0623751	<i>i</i>	6.78800	+0.27857202	−0.07342424	
<i>P</i>	3.50	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i> 6

Residuals in seconds of arc

1993 03 19	809	1.0+	0.4−	2000 04 03	699	0.7+	0.8−	2000 04 07	704	0.8+	0.2−
1993 03 20	809	0.4−	0.2+	2000 04 03	699	0.3+	0.3−	2000 04 07	699	0.4+	0.0
1993 03 24	809	0.7−	0.0	2000 04 03	699	0.5−	0.5−	2000 04 07	704	0.3−	0.5−
2000 03 27	699	0.1−	0.1+	2000 04 03	699	0.5−	0.3+	2000 04 07	704	0.5−	0.1−
2000 03 27	699	0.4−	0.3+	2000 04 04	704	0.4−	0.4+	2000 04 07	704	0.7−	0.0
2000 03 27	699	0.5−	0.2−	2000 04 04	704	0.4−	0.4+	2000 04 08	704	0.4+	0.3−
2000 03 27	699	0.1−	0.6+	2000 04 04	704	0.3−	0.5+	2000 04 08	704	0.3+	1.5+
2000 03 29	704	1.0−	0.2−	2000 04 04	704	0.4+	0.6−	2000 04 08	704	0.2+	0.7+
2000 03 29	704	0.1+	0.7−	2000 04 06	699	0.2−	0.0	2000 04 08	704	0.2+	0.6+
2000 03 29	704	0.7+	0.1+	2000 04 06	699	0.4−	0.4−	2000 04 08	704	1.0−	0.6−
2000 03 29	704	0.1−	0.1+	2000 04 06	699	0.8−	0.2+	2000 04 10	704	0.1+	0.5+
2000 03 29	704	1.1+	0.7+	2000 04 06	699	1.2+	0.3−	2000 04 10	704	0.2−	0.7−
2000 04 02	699	0.0	0.0	2000 04 07	699	0.3+	0.0	2000 04 10	704	0.4+	0.1+
2000 04 02	699	0.4−	0.4−	2000 04 07	699	1.3+	0.0	2000 04 10	704	0.9−	0.4−
2000 04 02	699	0.3−	0.1+	2000 04 07	699	0.5+	0.2+				
2000 04 02	699	0.6+	0.3+	2000 04 07	704	0.2+	0.0				

2000 FH₂₇ = 1998 XC₆₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.89196	(2000.0)	P		Q	
<i>n</i>	0.19857610	<i>ω</i>	98.59526	+0.75633468	+0.65407375	
<i>a</i>	2.9097213	<i>Ω</i>	220.55655	−0.60726089	+0.69510949	
<i>e</i>	0.1119479	<i>i</i>	1.06260	−0.24329419	+0.29834599	
<i>P</i>	4.96	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 13	691	0.2+	0.3+	2000 04 02	699	0.3−	0.1+	2000 04 06	699	0.1+	0.6−
1998 12 13	691	0.2+	0.2+	2000 04 02	699	0.2−	0.1−	2000 04 06	704	0.8+	0.3−
1998 12 13	691	0.1+	0.3+	2000 04 02	699	0.2−	0.3−	2000 04 06	704	0.5+	0.4+
1998 12 22	691	0.1−	0.1−	2000 04 03	699	0.8−	0.3+	2000 04 06	699	0.4+	0.0
1998 12 22	691	0.0	0.3−	2000 04 03	699	0.0	0.0	2000 04 06	704	0.3+	0.5+
1998 12 22	691	0.4−	0.4−	2000 04 03	699	0.7−	0.5−	2000 04 06	699	0.4+	0.1+
2000 03 25	691	0.6−	0.3−	2000 04 03	699	0.3−	0.5−	2000 04 06	704	0.5+	0.7+
2000 03 25	691	0.6−	0.2−	2000 04 05	704	0.1+	0.5+	2000 04 07	704	0.6+	0.2+
2000 03 25	691	0.2−	0.2−	2000 04 05	704	0.6−	0.8+	2000 04 07	704	0.0	0.0
2000 03 27	699	0.8+	0.2−	2000 04 05	704	0.2−	0.3+	2000 04 07	704	0.8+	1.3−
2000 03 27	699	0.2−	0.2−	2000 04 05	704	0.1−	0.5+	2000 04 07	704	0.2−	0.0
2000 03 27	699	0.0	0.2+	2000 04 05	704	0.4+	0.3+	2000 04 10	691	0.5−	0.1−
2000 03 27	699	0.8+	0.3+	2000 04 06	699	0.2+	0.1+	2000 04 10	691	0.5−	0.2−
2000 04 02	699	0.2+	0.2−	2000 04 06	704	0.5−	0.3+	2000 04 10	691	0.3−	0.3−

2000 FO₂₇ = 1976 SS₇ = 1976 SU₈ = 1980 PB₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	205.27801	(2000.0)	P		Q	
<i>n</i>	0.23343257	<i>ω</i>	155.13862	+0.98329834	+0.18131363	
<i>a</i>	2.6123322	<i>Ω</i>	194.44159	−0.17578135	+0.92360208	
<i>e</i>	0.2140889	<i>i</i>	3.63314	−0.04717307	+0.33776407	
<i>P</i>	4.22	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i> 5

Residuals in seconds of arc

1976 09 25	095	0.9−	0.9+	2000 04 02	699	0.1+	0.3+	2000 04 05	691	0.5−	0.5−
1976 09 28	095	0.5+	0.1+	2000 04 02	699	1.0−	1.2+	2000 04 06	704	0.1+	0.4+
1980 08 04	675	0.1−	0.3−	2000 04 02	699	0.5+	0.5+	2000 04 06	704	0.3−	0.3+
1980 08 05	675	0.2+	0.1+	2000 04 02	699	0.3−	1.4+	2000 04 06	704	0.5−	0.5+
2000 03 27	699	0.9+	0.2−	2000 04 05	704	0.1−	0.1+	2000 04 06	704	0.2−	0.5+
2000 03 27	699	0.2+	1.2−	2000 04 05	704	0.4+	0.4+	2000 04 06	704	0.5−	1.0+
2000 03 27	699	0.1+	0.2+	2000 04 05	704	0.3+	0.5+	2000 04 07	704	0.8+	1.6−
2000 03 27	699	0.2−	0.1−	2000 04 05	691	0.4−	0.7−	2000 04 07	704	0.6+	0.4+
2000 03 29	691	0.1+	0.7−	2000 04 05	704	0.2−	0.5+	2000 04 07	704	0.1−	0.8−
2000 03 29	691	0.1+	0.8−	2000 04 05	704	0.1+	0.2+	2000 04 07	704	0.8+	1.0+
2000 03 29	691	0.1+	0.9−	2000 04 05	691	0.4−	0.6−				

2000 FY₂₇ = 1993 RU₈ = 1998 XW₅₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	140.73254		(2000.0)	P		Q	
<i>n</i>	0.22214107	ω	77.28259	+0.85049708		−0.52528693	
<i>a</i>	2.7001226	Ω	314.39742	+0.46673550		+0.77736374	
<i>e</i>	0.2527869	<i>i</i>	2.16466	+0.24251326		+0.34609140	
<i>P</i>	4.44	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 09 14	809	0.8+	0.8+	1999 01 16	704	0.0	1.1+	2000 04 03	699	0.2+	0.0
1993 09 14	809	0.9−	0.6+	1999 01 16	704	0.9+	1.4+	2000 04 03	699	0.7−	0.0
1993 09 14	809	0.6−	0.1−	2000 03 04	703	1.4−	0.0	2000 04 05	704	0.1−	0.2−
1993 09 19	809	0.2+	0.9+	2000 03 04	703	(0.9+	2.2+)	2000 04 05	704	0.2−	0.0
1993 09 19	809	0.6−	1.2+	2000 03 04	703	1.1+	1.2+	2000 04 05	704	0.2+	0.1−
1993 09 19	809	0.9−	0.8+	2000 03 04	703	1.7−	0.7+	2000 04 05	704	0.0	0.4+
1998 11 15	699	(2.9+	0.4−)	2000 03 10	704	1.1+	0.7−	2000 04 05	704	0.4+	0.6+
1998 11 15	699	(2.5+	0.5−)	2000 03 10	704	0.4+	0.7+	2000 04 06	699	0.5−	0.1+
1998 11 15	699	1.5+	0.5−	2000 03 10	704	1.2+	0.5+	2000 04 06	699	0.3+	0.5+
1998 12 14	704	1.1−	0.4−	2000 03 10	704	0.7+	0.8+	2000 04 06	699	0.1−	0.2−
1998 12 14	704	0.3+	1.1−	2000 03 27	699	0.8+	0.2−	2000 04 06	699	0.6−	0.5+
1998 12 14	704	0.8−	0.1−	2000 03 27	699	0.5−	0.3−	2000 04 07	704	1.6−	1.0−
1998 12 14	704	0.4−	0.4−	2000 03 27	699	0.4+	0.4+	2000 04 07	704	0.2+	0.9+
1998 12 17	704	0.4−	0.2+	2000 03 27	699	0.0	0.2−	2000 04 07	704	1.1+	0.6+
1998 12 17	704	0.3−	0.1−	2000 04 02	699	0.8+	0.0	2000 04 07	704	1.8+	0.9+
1998 12 17	704	0.0	0.2−	2000 04 02	699	0.1−	0.1−	2000 04 08	704	0.4+	0.5−
1998 12 17	704	0.0	0.6−	2000 04 02	699	0.9−	0.3−	2000 04 08	704	0.5+	0.6−
1998 12 17	704	0.2−	0.0	2000 04 02	699	0.4+	0.0	2000 04 08	704	0.6−	0.1+
1999 01 16	704	0.2+	0.7+	2000 04 03	699	0.6−	0.2−	2000 04 08	704	0.5+	0.5+
1999 01 16	704	0.5+	1.6+	2000 04 03	699	0.4−	0.0				

2000 FJ₂₈ = 1991 TK₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	3.68893		(2000.0)	P		Q	
<i>n</i>	0.17382398	ω	206.00542	−0.99716283		+0.06921801	
<i>a</i>	3.1797740	Ω	337.90352	−0.04767523		−0.88486623	
<i>e</i>	0.0791856	<i>i</i>	4.51057	−0.05825252		−0.46067409	
<i>P</i>	5.67	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 10 03	033	0.1−	0.4+	1999 01 16	704	0.4+	0.0	2000 04 06	699	0.2+	0.4−
1991 10 04	033	0.6−	0.9+	1999 01 16	704	0.3−	0.1−	2000 04 06	699	0.3−	0.1−
1991 10 04	033	0.4−	0.8+	1999 01 16	704	1.5+	0.2−	2000 04 07	704	0.2+	0.4−
1996 07 14	809	(1.3−	4.4−)	1999 01 16	704	(4.7−	0.1−)	2000 04 07	704	0.3+	0.3−
1996 07 14	809	(1.6−	3.9−)	2000 03 27	699	0.4−	0.2+	2000 04 07	704	0.2+	0.3+
1996 07 14	809	(0.8−	4.0−)	2000 03 27	699	0.1−	0.2−	2000 04 07	704	0.1+	0.1+
1996 07 21	809	0.5−	0.1+	2000 03 27	699	0.1+	0.3+	2000 04 07	704	0.4+	0.3+
1996 07 21	809	0.0	0.1−	2000 03 27	699	0.4−	0.4+	2000 04 08	704	0.4+	0.7+
1996 07 21	809	0.3+	0.4+	2000 03 30	704	0.2+	0.6−	2000 04 08	704	0.0	0.1−
1996 08 17	566	(5.6−	1.9−)	2000 03 30	704	0.1+	0.2−	2000 04 08	704	0.5+	1.2+
1996 08 17	566	(5.5−	1.5−)	2000 03 30	704	1.2+	0.2−	2000 04 08	704	0.4−	0.1−
1996 08 17	566	(5.1−	1.2−)	2000 03 30	704	1.0+	0.8+	2000 04 08	704	0.3−	0.3−
1998 12 17	704	0.6−	0.2+	2000 04 02	699	0.8−	0.1−	2000 04 10	704	0.3−	0.2+
1998 12 17	704	1.3−	0.3+	2000 04 02	699	0.1+	0.2−	2000 04 10	704	0.1−	0.2+
1998 12 17	704	(2.7+	0.5+)	2000 04 02	699	0.1+	0.4+	2000 04 10	704	0.0	0.3+
1998 12 17	704	0.9−	0.8−	2000 04 02	699	0.4+	0.2−	2000 04 10	704	0.2−	0.2+
1998 12 17	704	1.4+	0.9+	2000 04 06	699	0.2−	0.0	2000 04 10	704	0.7−	0.1+
1999 01 16	704	0.1−	0.2+	2000 04 06	699	0.3−	0.5−				

2000 FC₂₈ = 1998 XZ₉₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	191.18001		(2000.0)	P		Q	
<i>n</i>	0.21811630	ω	91.23855	+0.99824076		+0.05277582	
<i>a</i>	2.7332370	Ω	265.73667	−0.05916388		+0.91643625	
<i>e</i>	0.0756466	<i>i</i>	1.55263	+0.00387446		+0.39668540	
<i>P</i>	4.52	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 06 14	566	0.4−	0.9−	2000 03 27	699	0.0	0.2−	2000 04 06	704	1.2−	0.2+
1996 06 14	566	0.3+	0.8−	2000 03 27	699	0.0	0.2+	2000 04 06	699	0.1+	0.5−
1996 06 14	566	0.4−	0.7−	2000 03 27	699	0.3+	0.2−	2000 04 06	704	1.0−	0.5+
1998 12 15	704	0.8−	0.6+	2000 03 27	699	0.7−	0.4+	2000 04 06	699	0.4−	0.1−
1998 12 15	704	0.9+	0.0	2000 03 27	699	0.9+	0.7+	2000 04 06	704	0.8−	0.6+
1998 12 15	704	0.0	0.6−	2000 03 27	699	0.9−	0.4+	2000 04 07	704	0.1−	0.4−
1998 12 15	704	0.4+	1.2−	2000 04 02	699	0.8+	0.5−	2000 04 07	704	0.3+	0.4+
1998 12 15	704	0.4+	1.9−	2000 04 02	699	0.4+	0.4−	2000 04 07	704	0.5+	0.1+
1998 12 22	704	0.1−	0.6−	2000 04 02	699	0.1−	0.1−	2000 04 08	704	0.0	0.1−
1998 12 22	704	(0.4+	2.3+)	2000 04 02	699	0.0	0.3+	2000 04 08	704	0.2+	0.1−
1998 12 22	704	0.4−	1.5+	2000 04 05	704	0.5+	0.1+	2000 04 08	704	0.1+	0.2−
1998 12 22	704	0.6−	0.4+	2000 04 05	704	0.5−	0.4+	2000 04 08	704	0.6+	0.5+
2000 03 10	704	0.7+	1.1−	2000 04 05	704	0.1−	0.2+	2000 04 08	704	0.4+	0.1+
2000 03 10	704	0.5+	0.5−	2000 04 05	704	1.3+	1.6+	2000 04 10	704	0.3−	0.7−
2000 03 10	704	0.4+	0.2−	2000 04 05	704	0.3−	0.5+	2000 04 10	704	0.4−	0.0
2000 03 10	704	0.2−	0.5−	2000 04 06	699	0.1+	0.0	2000 04 10	704	0.3+	0.1−
2000 03 10	704	0.7+	0.4−	2000 04 06	704	1.1−	0.3+	2000 04 10	704	0.4+	0.3−
2000 03 27	699	0.5+	0.2−	2000 04 06	699	0.1−	0.3+				
2000 03 27	699	0.3−	0.5+	2000 04 06	704	0.8−	0.1+				

2000 FK₂₈ = 1998 SY₈₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	31.46035		(2000.0)	P		Q	
<i>n</i>	0.26552887	ω	154.17965	−0.67159237		−0.74018090	
<i>a</i>	2.3973322	Ω	337.96117	+0.66358177		−0.58101433	
<i>e</i>	0.2352123	<i>i</i>	5.06144	+0.32957990		−0.33845914	
<i>P</i>	3.71	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 09 26	704	1.8+	1.0−	2000 01 11	699	0.1−	1.1+	2000 04 02	699	0.1+	0.3+
1998 09 26	704	0.1+	0.6−	2000 01 11	699	1.0−	0.7+	2000 04 06	699	0.7−	0.1−
1998 09 26	704	0.7−	0.3−	2000 02 02	704	0.6+	0.5−	2000 04 06	699	0.5−	0.1+
1998 09 26	704	1.6−	0.0	2000 02 02	704	0.3+	0.9−	2000 04 06	699	0.3−	0.1−
1998 09 27	704	0.5+	0.6−	2000 02 02	704	(2.7−	1.3+)	2000 04 06	699	0.4−	0.0
1998 09 27	704	0.6+	0.7+	2000 03 09	704	0.5+	0.0	2000 04 07	704	0.0	0.1+
1998 09 27	704	0.7+	0.2−	2000 03 09	704	0.0	0.6−	2000 04 07	704	0.1−	0.5+
1998 09 27	704	(0.4−	2.6+)	2000 03 09	704	0.7−	0.2+	2000 04 07	704	0.2−	0.1+
1998 09 27	704	(2.3−	1.0+)	2000 03 27	699	0.2−	0.2−	2000 04 07	704	0.1+	0.3+
1998 09 27	704	0.2−	0.8+	2000 03 27	699	0.3−	0.1+	2000 04 07	704	0.0	0.3+
1998 09 27	704	0.4−	1.8+	2000 03 27	699	0.5−	0.1−	2000 04 08	704	0.1+	0.8−
1998 09 27	704	(2.3−	0.6+)	2000 03 27	699	0.4−	0.1+	2000 04 08	704	(1.8−	2.2−)
1998 09 27	704	(2.7−	0.9+)	2000 03 30	704	0.2−	0.3−	2000 04 08	704	0.2−	0.1−
1998 10 18	327	0.2−	0.2+	2000 03 30	704	0.0	0.4+	2000 04 08	704	0.6+	0.3−
1998 10 18	327	0.5−	0.3−	2000 03 30	704	0.1+	0.1+	2000 04 08	704	1.2+	0.5+
1998 10 18	327	0.6+	0.8+	2000 03 30	704	0.1+	0.1+	2000 04 10	704	0.1−	0.2+
1998 10 19	327	0.6−	0.1+	2000 03 30	704	0.0	0.4+	2000 04 10	704	0.4+	0.4−
1998 10 19	327	0.3−	0.2−	2000 04 02	699	0.1+	0.4−	2000 04 10	704	0.5+	0.3−
1998 10 19	327	0.3−	0.0	2000 04 02	699	0.1+	0.0	2000 04 10	704	0.4+	0.2+
2000 01 11	699	1.0+	0.0	2000 04 02	699	0.3−	0.3+	2000 04 10	704	0.9+	0.2+

2000 APR. 18

M.P.C. 40235

2000 FN₂₈ = 1996 LS₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	310.18819		(2000.0)		P		Q				
<i>n</i>	0.23181210	ω	4.48406		−0.22598924		+0.97326012				
<i>a</i>	2.6244924	Ω	252.45897		−0.89508349		−0.22413611				
<i>e</i>	0.2144300	<i>i</i>	2.47367		−0.38438835		−0.05027672				
<i>P</i>	4.25	<i>H</i>	15.0		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1996 06 14	566	0.5+	0.7−	2000 03 27	699	0.1+	0.2+	2000 04 06	699	0.2+	0.3+
1996 06 14	566	0.3+	0.4−	2000 03 30	704	(3.9+	0.2+)	2000 04 07	704	0.1−	0.1+
1996 06 14	566	0.2−	0.8−	2000 03 30	704	0.2+	1.2−	2000 04 07	704	0.2+	0.1+
1996 06 14	566	0.3+	0.1+	2000 03 30	704	(2.0−	3.1−)	2000 04 07	704	0.3−	0.6−
1996 06 14	566	0.3−	0.7+	2000 04 02	699	0.0	0.3+	2000 04 07	704	0.0	0.5−
1996 06 14	566	0.2+	0.9−	2000 04 02	699	0.2−	0.2+	2000 04 08	704	0.2−	0.4+
1996 06 14	566	0.1+	0.4−	2000 04 02	699	0.2+	0.4+	2000 04 08	704	0.1−	0.3−
1996 06 14	566	0.4−	1.0+	2000 04 02	699	0.7−	0.1+	2000 04 08	704	0.2+	0.0
1996 06 14	566	0.6−	1.0+	2000 04 03	699	0.3+	0.1−	2000 04 08	704	0.5+	0.5−
1996 06 21	566	0.2−	0.0	2000 04 03	699	0.0	0.0	2000 04 08	704	0.3+	0.4+
1996 06 21	566	0.1−	0.1+	2000 04 03	699	0.4−	0.1+	2000 04 10	704	1.8−	0.2+
1996 06 21	566	0.3+	0.2+	2000 04 03	699	0.4+	0.0	2000 04 10	704	0.1+	0.2+
2000 03 27	699	0.2+	0.1+	2000 04 06	699	0.1+	0.5+	2000 04 10	704	0.2−	0.1−
2000 03 27	699	0.1−	0.2−	2000 04 06	699	0.8+	0.1+	2000 04 10	704	0.4−	0.3−
2000 03 27	699	0.6−	0.2+	2000 04 06	699	0.3+	0.4+	2000 04 10	704	1.2+	0.7−

2000 FU₂₈ = 1996 AB₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	300.37240		(2000.0)		P		Q				
<i>n</i>	0.27433453	ω	37.97340		−0.11276024		+0.99169407				
<i>a</i>	2.3457537	Ω	225.64729		−0.93149846		−0.12717718				
<i>e</i>	0.2077631	<i>i</i>	4.96382		−0.34582618		+0.01920530				
<i>P</i>	3.59	<i>H</i>	14.9		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1996 01 14	691	0.0	0.1−	2000 04 02	699	1.0−	0.0	2000 04 08	704	0.1+	0.5−
1996 01 14	691	0.2+	0.0	2000 04 02	699	0.3−	0.0	2000 04 08	704	0.5+	0.1−
1996 01 14	691	0.0	0.1+	2000 04 02	699	0.9−	0.1+	2000 04 08	704	0.0	1.3+
1996 01 27	691	0.0	0.0	2000 04 02	699	0.0	0.0	2000 04 10	704	0.3−	0.9−
1996 01 27	691	0.3−	0.1−	2000 04 07	704	0.2+	0.3+	2000 04 10	704	0.3+	0.8−
1996 01 27	691	0.1+	0.1+	2000 04 07	704	0.7+	0.1+	2000 04 10	704	0.0	0.8+
2000 03 27	699	0.4+	0.4−	2000 04 07	704	0.2+	0.3+	2000 04 10	704	0.2−	0.2−
2000 03 27	699	0.2−	0.1−	2000 04 07	704	0.2+	1.1+	2000 04 10	704	0.4−	0.9−
2000 03 27	699	0.5+	0.3−	2000 04 08	704	0.0	0.0				
2000 03 27	699	0.1+	0.0	2000 04 08	704	0.2+	0.1+				

2000 FY₂₈ = 1996 ET₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	253.16367		(2000.0)			P		Q			
<i>n</i>	0.27418361	ω	91.57984			+0.72983755		+0.67852280			
<i>a</i>	2.3466143	Ω	225.70231			−0.66434835		+0.67523378			
<i>e</i>	0.2293494	<i>i</i>	6.68604			−0.16117823		+0.28925103			
<i>P</i>	3.59	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1996 03 13	691	0.8+	0.0	1996 03 27	691	1.3−	0.2−	2000 04 02	699	0.5−	0.1+
1996 03 13	691	0.8+	0.1+	2000 03 27	699	0.3−	0.6+	2000 04 02	699	0.8−	0.4+
1996 03 19	691	(0.3+	5.1−)	2000 03 27	699	0.5−	0.1−	2000 04 08	704	0.2+	1.0−
1996 03 19	691	0.4+	0.0	2000 03 27	699	0.8−	1.1+	2000 04 08	704	0.9+	1.1−
1996 03 19	691	0.9+	1.2+	2000 03 27	699	0.2+	0.1−	2000 04 08	704	0.8+	0.1−
1996 03 27	691	1.0−	0.7−	2000 04 02	699	0.3−	0.2+	2000 04 08	704	1.3+	0.4+
1996 03 27	691	1.2−	0.5−	2000 04 02	699	0.1−	0.2−				

2000 FZ₂₈ = 1976 ET = 1998 VF₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	339.03328		(2000.0)		P		Q				
n	0.29291348	ω	250.24373		−0.88862701		+0.45697900				
a	2.2454832	Ω	316.92449		−0.39658716		−0.80823271				
e	0.0128038	i	3.26414		−0.23034899		−0.37138939				
P	3.36	H	15.0	G	0.15	U	4				
Residuals in seconds of arc											
1976 03 01	033	0.7+	0.5+	2000 03 27	699	0.6+	0.3+	2000 04 07	704	0.5+	0.2−
1976 03 02	033	0.7−	0.4−	2000 04 02	699	0.5−	0.3−	2000 04 07	704	0.1−	0.0
1998 11 10	704	0.3−	1.2+	2000 04 02	699	0.4−	0.1−	2000 04 07	704	0.5+	0.4−
1998 11 10	704	0.1−	0.4+	2000 04 02	699	0.4+	0.1−	2000 04 07	704	0.3+	1.1−
1998 11 10	704	0.9−	0.1−	2000 04 02	699	0.3−	0.2+	2000 04 08	704	0.9+	0.5+
1998 11 10	704	0.2+	0.5+	2000 04 03	699	0.4−	0.2−	2000 04 08	704	0.2−	0.3+
1998 11 10	704	0.0	1.7−	2000 04 03	699	0.3−	0.2−	2000 04 08	704	0.3+	0.7+
1998 11 11	704	0.3+	0.5−	2000 04 03	699	0.4−	0.1−	2000 04 08	704	0.8+	1.3+
1998 11 11	704	0.1−	0.4+	2000 04 03	699	0.3−	0.1−	2000 04 10	704	1.0−	1.2−
1998 11 11	704	1.0+	0.6−	2000 04 06	699	0.4+	0.4+	2000 04 10	704	0.3−	0.4+
1998 11 11	704	0.1−	0.1+	2000 04 06	699	0.5−	0.1−	2000 04 10	704	0.8+	0.5+
2000 03 27	699	0.3+	1.8−	2000 04 06	699	0.8−	0.1+	2000 04 10	704	0.2+	0.0
2000 03 27	699	0.3+	0.7+	2000 04 06	699	0.3−	0.6+	2000 04 10	704	0.1−	0.1−
2000 03 27	699	0.7−	0.2+	2000 04 07	704	0.4+	0.3−				

2000 FJ₂₉ = 1987 SS₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	248.39502		(2000.0)		P		Q				
<i>n</i>	0.20302536	ω	345.28263		+0.70072304		+0.71316685				
<i>a</i>	2.8670539	Ω	329.19484		−0.65065420		+0.62761200				
<i>e</i>	0.1294726	<i>i</i>	2.18222		−0.29263686		+0.31224385				
<i>P</i>	4.85	<i>H</i>	13.8		<i>G</i>	0.15	<i>U</i>	5			
Residuals in seconds of arc											
1987 09 29	054	0.8+	0.1−	2000 04 05	704	0.1−	0.3+	2000 04 07	704	0.8−	0.2+
1987 09 30	054	0.8−	0.4−	2000 04 05	704	0.2−	0.1−	2000 04 08	704	(0.7−	2.2−)
1987 09 30	054	1.2−	0.1−	2000 04 05	704	0.0	0.2+	2000 04 08	704	0.4−	0.3+
2000 03 27	699	0.8+	0.2+	2000 04 05	704	0.4+	0.8+	2000 04 08	704	0.4−	0.1−
2000 03 27	699	0.5+	0.0	2000 04 06	699	0.0	0.0	2000 04 08	704	0.2+	0.8+
2000 03 27	699	0.0	0.3−	2000 04 06	699	0.1+	0.1+	2000 04 08	704	0.1+	0.2+
2000 03 27	699	0.2+	0.3−	2000 04 06	699	0.7−	0.5+	2000 04 10	704	0.2−	0.6−
2000 04 02	699	0.5−	0.3−	2000 04 06	699	0.1+	0.2−	2000 04 10	704	0.2+	0.9+
2000 04 02	699	0.2+	0.1+	2000 04 07	704	0.6−	0.2−	2000 04 10	704	0.9+	1.1−
2000 04 02	699	0.1+	0.3−	2000 04 07	704	0.3+	0.0	2000 04 10	704	1.5+	0.1−
2000 04 02	699	1.0−	0.1+	2000 04 07	704	0.3−	0.9−	2000 04 10	704	0.7+	0.6−
2000 04 05	704	0.0	0.0	2000 04 07	704	1.3−	0.5+				

2000 FL₂₉ = 1998 XD₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	139.69449		(2000.0)		P			Q			
n	0.21099351		ω	37.90545	+0.71786039			−0.69614693			
a	2.7944091		Ω	6.22948	+0.62071736			+0.63514067			
e	0.0819212		i	3.95130	+0.31525612			+0.33462783			
P	4.67 <th>H</th> <td>13.8</td> <th>G</th> <td colspan="2">0.15</td> <th>U</th> <td colspan="2">4</td>		H	13.8	G	0.15		U	4		
Residuals in seconds of arc											
1995 02 24	691	0.2+	0.3−	2000 03 27	699	0.4+	0.5−	2000 04 07	704	0.5−	0.4+
1995 02 24	691	0.5+	0.1+	2000 03 27	699	0.4+	0.3−	2000 04 07	704	0.6−	0.3+
1995 02 24	691	0.2−	0.4+	2000 04 02	699	0.2+	0.4−	2000 04 07	704	0.2+	0.4−
1995 03 07	691	0.4−	0.2−	2000 04 02	699	0.6+	0.4+	2000 04 07	704	0.7−	0.7−
1995 03 07	691	0.2−	0.3−	2000 04 02	699	1.0−	0.6+	2000 04 07	704	0.8−	0.3+
1995 03 07	691	0.2−	0.3−	2000 04 02	699	1.1−	0.7−	2000 04 08	704	0.9+	0.1−
1998 12 14	704	1.3+	0.8+	2000 04 05	704	0.0	0.0	2000 04 08	704	0.3+	0.7−
1998 12 14	704	(2.5+	2.1−)	2000 04 05	704	0.2+	0.0	2000 04 08	704	0.4−	0.1−
1998 12 14	704	0.7+	0.6−	2000 04 05	704	0.1−	0.1−	2000 04 08	704	0.3+	0.4−
1998 12 17	704	0.8+	0.3−	2000 04 05	704	0.1+	0.3+	2000 04 08	704	0.6+	0.7−

1998 12 17	704	0.5−	1.3−	2000 04 05	704	0.4+	0.2+	2000 04 08	704	0.0	0.7−
1998 12 17	704	0.5−	1.0−	2000 04 06	704	0.2−	0.5+	2000 04 08	704	0.4+	0.1−
1998 12 17	704	0.6−	0.9−	2000 04 06	704	0.3+	0.2+	2000 04 08	704	0.2−	0.4+
1998 12 17	704	1.0−	1.2−	2000 04 06	704	0.8+	0.2+	2000 04 08	704	0.2+	0.4−
1999 01 19	704	0.9−	1.0+	2000 04 06	704	0.2−	0.9+	2000 04 08	704	0.4−	0.5−
1999 01 19	704	0.4+	1.2+	2000 04 06	704	0.6+	0.7+	2000 04 10	704	0.6−	0.4+
1999 01 19	704	0.6−	1.5+	2000 04 07	704	0.0	0.3−	2000 04 10	704	0.3−	0.3+
1999 01 19	704	(2.4+	1.9+)	2000 04 07	704	0.9−	0.6+	2000 04 10	704	0.5+	0.4+
1999 01 19	704	0.7+	0.9+	2000 04 07	704	0.1+	0.6−	2000 04 10	704	1.0+	0.7+
2000 03 27	699	0.1−	0.4−	2000 04 07	704	0.3−	0.2+				
2000 03 27	699	0.2+	0.5−	2000 04 07	704	0.1−	0.5+				

2000 FM₂₉ = 1991 VH₅ = 1994 TD₁₇ = 1998 XR₉₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	246.90596		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29147219	ω	119.88947	+0.70138762	+0.71254292
a	2.2528795	Ω	194.69547	−0.67641009	+0.65724372
e	0.1558783	i	4.15592	−0.22477720	+0.24558761
P	3.38	H	14.8	G 0.15	U 1

Residuals in seconds of arc

1991 11 11	399	0.6−	0.1+	2000 03 04	703	0.9+	0.9+	2000 04 06	691	0.9−	0.2−
1991 11 11	399	(2.8−	0.9−)	2000 03 04	703	0.2+	0.9+	2000 04 06	691	0.9−	0.2−
1991 11 13	399	0.5−	1.5+	2000 03 04	703	0.1+	0.3−	2000 04 06	691	0.9−	0.2−
1991 11 13	399	0.8+	1.6+	2000 03 25	691	0.5−	0.0	2000 04 07	704	0.2−	0.7+
1993 02 16	691	0.5−	1.4−	2000 03 25	691	0.6−	0.0	2000 04 07	704	0.1−	0.1+
1993 02 16	691	0.3−	0.8−	2000 03 25	691	0.5−	0.0	2000 04 07	704	0.1+	0.4+
1993 02 16	691	0.7−	1.1−	2000 03 27	699	0.0	0.1+	2000 04 07	704	0.3+	0.4+
1993 02 16	691	0.5−	0.9−	2000 03 27	699	0.1−	0.6−	2000 04 07	704	0.2−	0.3+
1993 02 16	691	0.1+	1.5−	2000 03 27	699	0.2−	0.3+	2000 04 07	704	0.4+	0.6+
1993 02 16	691	0.5−	0.9−	2000 03 27	699	0.1−	0.2+	2000 04 07	704	0.7+	0.3−
1994 10 10	033	0.0	0.0	2000 04 02	699	0.2−	0.3+	2000 04 07	704	0.1−	0.0
1994 10 10	033	1.4−	0.7+	2000 04 02	699	0.2−	0.4+	2000 04 07	704	0.1+	0.6+
1994 10 12	033	0.7+	1.1+	2000 04 02	699	0.3−	0.7+	2000 04 07	704	0.7−	0.2−
1998 12 15	704	0.0	0.2−	2000 04 02	699	0.4−	0.3+	2000 04 08	704	0.9+	0.2−
1998 12 15	704	0.4−	0.8+	2000 04 05	704	0.6+	0.5+	2000 04 08	704	1.0+	0.8+
1998 12 15	704	0.4−	1.4+	2000 04 05	704	0.4+	0.5+	2000 04 08	704	0.7+	0.1−
1998 12 15	704	0.2−	0.6−	2000 04 05	704	0.7+	0.0	2000 04 08	704	0.2+	0.4+
1998 12 16	704	0.6+	0.8+	2000 04 05	704	0.5+	0.1−	2000 04 08	704	0.5+	1.0+
1998 12 16	704	0.8+	1.3+	2000 04 05	704	0.9+	0.0	2000 04 10	704	0.0	0.3+
1998 12 16	704	0.8+	0.3−	2000 04 06	699	0.5−	0.4+	2000 04 10	704	0.1−	0.2−
1998 12 16	704	(0.3−	4.2−)	2000 04 06	704	0.5+	0.5+	2000 04 10	704	0.2+	0.0
1998 12 22	704	0.8+	0.1−	2000 04 06	699	0.5−	0.3+	2000 04 10	704	0.2−	0.3+
1998 12 22	704	1.2+	0.7+	2000 04 06	704	0.9+	0.3+	2000 04 10	704	0.8−	0.6+
1998 12 22	704	(1.9−	2.3−)	2000 04 06	699	0.8−	0.6+	2000 04 10	608	0.2+	0.5−
1998 12 22	704	1.8−	0.5−	2000 04 06	704	0.7+	0.1−	2000 04 10	608	0.1+	0.6−
1998 12 22	704	1.5−	1.5−	2000 04 06	699	0.6−	0.0	2000 04 10	608	0.3+	0.0
2000 03 04	703	0.8+	0.2+	2000 04 06	704	1.0+	0.1−				

2000 FC₃₀ = 1998 QX₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	114.72157		(2000.0)		P	Q	
n	0.26064713	ω	242.71312		+0.60460516	-0.79616999	
a	2.4271731	Ω	169.98190		+0.77058492	+0.57709397	
e	0.2060553	i	7.86006		+0.20162215	+0.18186778	
P	3.78	H	14.1	G	0.15	U	2

Residuals in seconds of arc

1996 02 24	566	0.1−	0.3−	1998 11 13	704	0.2−	1.5+	2000 04 03	699	0.4−	0.7+
1996 02 24	566	0.2+	0.2−	1998 11 13	704	0.7−	0.6−	2000 04 03	699	0.0	0.7+
1996 02 24	566	0.1+	0.8−	1998 12 14	699	1.3−	0.1+	2000 04 03	699	1.1−	0.1+
1996 03 19	566	0.4−	0.6−	1998 12 14	699	0.4−	0.0	2000 04 04	704	1.7+	1.1−
1996 03 19	566	0.3+	0.2−	1998 12 14	699	0.4−	0.0	2000 04 04	704	0.1+	0.9+
1996 03 19	566	0.0	0.3−	1999 02 04	699	0.5−	1.3+	2000 04 04	704	0.2−	0.0
1996 03 26	691	0.2+	0.4−	1999 02 04	699	0.8+	0.5−	2000 04 04	704	0.6−	2.0+
1996 03 26	691	0.6+	0.5−	1999 02 04	699	0.3+	0.5+	2000 04 06	699	0.3−	0.1−

1996 03 26	691	0.3+	0.6−	2000 03 01	703	0.0	0.4+	2000 04 06	699	0.2−	0.2+
1996 04 19	566	1.4−	0.1−	2000 03 01	703	0.9+	0.9+	2000 04 06	699	0.3−	0.1−
1996 04 19	566	0.2+	0.6−	2000 03 01	703	0.6−	0.3−	2000 04 06	699	0.3−	0.3+
1996 04 19	566	1.3−	0.3−	2000 03 01	703	0.1+	0.8+	2000 04 07	704	0.1−	0.0
1996 04 19	566	0.1−	0.7−	2000 03 08	704	0.2+	0.1+	2000 04 07	704	0.5−	0.2−
1996 04 19	566	1.3−	0.2+	2000 03 08	704	0.0	0.0	2000 04 07	704	0.1+	0.1−
1996 04 19	566	0.9+	0.6−	2000 03 08	704	0.5−	0.1−	2000 04 07	704	0.3−	0.1+
1998 08 28	704	0.8−	1.4+	2000 03 08	704	0.1+	0.6−	2000 04 07	704	0.0	0.1+
1998 08 28	704	(1.6−	2.4+)	2000 03 08	704	0.6−	0.3−	2000 04 08	704	0.2+	1.3+
1998 08 28	704	0.1−	0.2+	2000 03 27	699	0.1−	0.8+	2000 04 08	704	1.2+	0.6+
1998 08 28	704	1.4+	0.7+	2000 03 27	699	0.8−	1.2+	2000 04 08	704	0.5+	0.6+
1998 08 28	704	(4.3−	0.2−)	2000 03 27	699	0.1−	0.4+	2000 04 08	704	0.5+	0.8−
1998 08 31	704	0.5−	1.1+	2000 03 27	699	0.6−	1.0+	2000 04 08	704	0.6+	0.7−
1998 08 31	704	0.2+	0.6−	2000 03 29	704	0.0	0.1+	2000 04 08	704	0.6+	0.7−
1998 08 31	704	1.0−	1.1+	2000 03 29	704	1.2+	0.7−	2000 04 08	704	0.5+	0.5+
1998 08 31	704	1.4−	0.5−	2000 03 29	704	0.3+	0.5+	2000 04 08	704	1.0+	0.6−
1998 08 31	704	0.3+	0.3−	2000 03 29	704	0.2+	0.4+	2000 04 08	704	0.2−	0.7+
1998 09 18	699	0.1−	0.7+	2000 03 29	704	0.7+	0.1−	2000 04 10	704	(1.0−	2.0+)
1998 09 18	699	0.3+	0.9+	2000 04 02	699	0.1−	0.1+	2000 04 10	704	0.4+	0.1−
1998 09 18	699	0.5−	1.3+	2000 04 02	699	0.5−	0.5+	2000 04 10	704	1.0+	0.7+
1998 11 13	704	1.5+	1.1+	2000 04 02	699	0.1−	0.5+	2000 04 10	704	0.3+	1.2+
1998 11 13	704	0.4+	0.0	2000 04 02	699	1.0−	0.5+	2000 04 10	704	0.5+	0.6+
1998 11 13	704	0.4+	0.7−	2000 04 03	699	0.4+	0.7+				

2000 FJ₃₀ = 1998 XJ₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	46.80103		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.20990579	ω	353.42146	−0.71265613	−0.70011194
a	2.8040544	Ω	142.01503	+0.64686346	−0.68027384
e	0.0444607	i	4.12982	+0.27145701	−0.21695800
P	4.70	H	14.3	G 0.15	U 1

Residuals in seconds of arc

1992 07 26	809	(0.2−	2.7−)	2000 03 01	703	1.1+	0.1+	2000 04 04	704	1.2+	0.0
1992 07 26	809	(2.3−	2.9−)	2000 03 01	703	0.4−	0.8−	2000 04 04	704	0.3−	0.3+
1995 03 28	691	0.1−	0.1+	2000 03 27	699	0.6−	0.1+	2000 04 06	699	0.0	0.2−
1995 03 28	691	0.0	0.7−	2000 03 27	699	0.4−	0.3+	2000 04 06	699	0.0	0.2−
1995 03 28	691	0.2−	0.5−	2000 03 27	699	0.9−	0.2−	2000 04 06	699	0.6−	0.0
1997 10 27	688	0.1+	0.9+	2000 03 27	699	0.0	0.4+	2000 04 06	699	0.1−	0.0
1997 10 27	688	0.5−	0.2+	2000 03 29	704	0.0	0.7−	2000 04 08	704	0.5+	0.1+
1998 12 15	704	0.7−	0.3−	2000 03 29	704	0.3−	0.2+	2000 04 08	704	0.2−	0.4−
1998 12 15	704	1.6−	0.7−	2000 03 29	704	0.8+	0.4+	2000 04 08	704	0.2+	0.8+
1998 12 15	704	0.2−	1.1−	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.5+	0.2+
1998 12 15	704	0.9+	1.1+	2000 03 29	704	0.5+	1.7+	2000 04 08	704	0.2−	1.2+
1998 12 15	704	0.8+	1.4+	2000 04 02	699	0.1+	0.1+	2000 04 10	704	0.1+	0.6−
1998 12 22	704	0.3+	0.1−	2000 04 02	699	0.1−	0.6+	2000 04 10	704	0.2+	0.4−
1998 12 22	704	0.2+	0.9+	2000 04 02	699	0.3−	0.5+	2000 04 10	704	0.6+	0.2+
1998 12 22	704	(0.9+	2.6+)	2000 04 02	699	0.9−	0.1+	2000 04 10	704	0.1+	0.1−
1998 12 22	704	0.4+	0.4−	2000 04 04	704	0.4+	0.4−	2000 04 10	704	0.3+	0.8−
2000 03 01	703	0.5−	0.2−	2000 04 04	704	0.3+	0.9−				
2000 03 01	703	(0.9−	2.4−)	2000 04 04	704	0.5−	0.0				

2000 APR. 18

M.P.C. 40237

1997 05 07	704	0.8+	0.3+	2000 03 08	704	0.2+	1.4-	2000 04 04	704	0.0	0.3+
1997 05 07	704	1.2-	0.6-	2000 03 08	704	0.4-	1.4-	2000 04 04	704	0.7+	1.2+
1997 05 07	704	0.6-	0.8-	2000 03 08	704	0.2+	1.7-	2000 04 04	704	0.3+	0.7+
1998 09 14	704	0.7-	1.9-	2000 03 08	704	1.1-	0.0	2000 04 04	704	0.2-	1.0+
1998 09 14	704	(1.3+	3.2-)	2000 03 08	704	0.3-	1.1-	2000 04 06	699	1.3+	1.2+
1998 09 14	704	0.2+	0.1+	2000 03 27	699	1.2-	0.5+	2000 04 06	699	0.3-	0.2+
1998 09 18	704	0.9-	1.6-	2000 03 27	699	1.1-	0.4+	2000 04 06	699	0.4-	0.4+
1998 09 18	704	0.1+	0.9+	2000 03 27	699	1.2-	0.1+	2000 04 06	699	0.3-	0.1+
1998 09 18	704	0.9+	0.8-	2000 03 27	699	1.0-	1.2+	2000 04 08	704	0.0	0.9+
1998 09 18	704	0.1+	1.2+	2000 03 29	704	0.5+	0.1-	2000 04 08	704	0.1-	0.2+
1998 09 18	704	1.3-	1.4+	2000 03 29	704	1.1+	0.3-	2000 04 08	704	0.2-	0.2-
1998 09 24	699	0.4+	0.2+	2000 03 29	704	1.2+	1.0-	2000 04 08	704	0.1-	0.2+
1998 09 24	699	0.5+	0.6+	2000 03 29	704	1.7+	0.3-	2000 04 08	704	0.0	0.5+
1998 09 24	699	0.6+	1.0+	2000 03 29	704	0.3+	0.8+	2000 04 10	704	0.4+	0.2+
1998 09 29	704	(0.8+	2.4-)	2000 04 02	699	0.4-	0.2+	2000 04 10	704	0.6+	0.3+
1998 09 29	704	(0.4+	2.9-)	2000 04 02	699	0.8-	0.2+	2000 04 10	704	0.1+	0.3+
1998 09 29	704	0.2+	0.9+	2000 04 02	699	1.0-	0.6+	2000 04 10	704	0.2-	0.1+
1998 09 29	704	0.3-	0.6+	2000 04 02	699	0.1-	0.0				

2000 FO₃₀ = 1995 AT₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	49.66270		(2000.0)	P		Q	
n	0.22330313	ω	32.49483	-0.42226952	-0.90346471		
a	2.6907469	Ω	82.57644	+0.81496728	-0.41400995		
e	0.1886702	i	4.26557	+0.39688383	-0.11111829		
P	4.41	H	15.1	G	0.15	U	2

Residuals in seconds of arc

1995 01 02	010	1.4-	0.1-	2000 03 08	704	0.1-	1.7-	2000 04 02	699	0.2+	0.5-
1995 01 02	010	0.3+	0.9+	2000 03 08	704	0.1+	0.1-	2000 04 02	699	0.7-	0.4+
1995 01 03	010	0.0	1.4-	2000 03 08	704	0.3+	0.5+	2000 04 03	699	0.2+	0.1-
1995 01 04	010	1.1+	0.0	2000 03 08	704	0.8+	0.9+	2000 04 03	699	0.1-	0.1-
1998 11 11	704	0.4+	0.3+	2000 03 08	704	0.1-	0.1+	2000 04 03	699	0.3+	0.3+
1998 11 11	704	0.0	1.0+	2000 03 27	699	0.5-	0.3-	2000 04 03	699	0.3+	0.1+
1998 11 11	704	0.1-	0.3+	2000 03 27	699	0.1-	0.4-	2000 04 04	704	0.4+	0.3-
1998 11 11	704	0.7-	0.7-	2000 03 27	699	0.5-	0.5+	2000 04 04	704	0.7+	0.6+
1998 11 11	704	(3.2-	0.7+)	2000 03 27	699	1.0-	0.2+	2000 04 04	704	0.0	0.0
1999 01 13	691	(4.7+	0.9+)	2000 03 29	704	0.5-	0.1-	2000 04 04	704	0.3-	0.1-
1999 01 13	691	0.1-	0.4+	2000 03 29	704	0.2-	0.9-	2000 04 04	704	1.4+	0.9+
1999 01 13	691	0.0	0.3+	2000 03 29	704	0.0	0.3+	2000 04 06	699	1.0+	0.3-
2000 03 01	703	0.8+	0.5-	2000 03 29	704	0.0	1.0+	2000 04 06	699	0.7-	0.1-
2000 03 01	703	0.9+	0.1+	2000 03 29	704	0.2-	0.2+	2000 04 06	699	0.2-	0.5+
2000 03 01	703	0.7-	0.7-	2000 04 02	699	0.2-	0.2-	2000 04 06	699	0.3-	0.5+
2000 03 01	703	0.4-	0.2+	2000 04 02	699	0.1-	0.0				

2000 FV₃₀ = 1981 VB₂ = 1998 XB₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	140.93603		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.23662432	ω	356.88679	+0.80946805	-0.57178281		
a	2.5887879	Ω	38.99322	+0.54319245	+0.64289449		
e	0.1723165	i	12.25051	+0.22294269	+0.50965781		
P	4.17	H	14.0	G	0.15	U	4

Residuals in seconds of arc

1981 11 03	033	0.4-	0.6+	1998 12 17	704	0.1+	0.4+	2000 04 02	699	0.2-	0.1+
1981 11 03	033	0.3-	0.5+	1998 12 17	704	0.1-	0.7-	2000 04 02	699	0.3-	0.2-
1998 11 16	704	0.1+	0.6-	1998 12 17	704	0.8-	0.9+	2000 04 04	704	0.0	0.0
1998 11 16	704	(2.5+	1.9-)	2000 03 27	699	0.7+	0.1+	2000 04 04	704	0.4+	0.1-
1998 11 16	704	0.2+	0.0	2000 03 27	699	0.3-	0.1+	2000 04 04	704	0.3+	0.2+
1998 11 16	704	0.4+	1.1-	2000 03 27	699	0.5-	0.2+	2000 04 04	704	0.6-	0.5-
1998 11 16	704	0.2-	0.4+	2000 03 27	699	0.2+	0.3+	2000 04 04	704	0.0	0.5-
1998 12 14	704	1.4-	0.9+	2000 03 29	704	0.0	0.3+	2000 04 08	704	0.8+	0.2-
1998 12 14	704	0.3+	0.2-	2000 03 29	704	0.5+	0.9+	2000 04 08	704	0.0	0.6-
1998 12 14	704	1.5+	0.4-	2000 03 29	704	0.1-	0.1+	2000 04 08	704	0.3-	0.2-
1998 12 14	704	0.9-	0.2-	2000 03 29	704	0.3+	0.1-	2000 04 08	704	0.7-	0.2+
1998 12 14	704	0.7+	0.3-	2000 03 29	704	0.3+	0.6+	2000 04 08	704	0.5+	0.2+

1998 12 17	704	0.1+	0.6+	2000 04 02	699	0.3-	0.2-
1998 12 17	704	0.7+	0.3-	2000 04 02	699	0.2-	0.1+

2000 FW₃₀ = 1983 JK₁ = 1996 KM = 1998 XF₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	298.25412		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.22794783	ω	174.06814	-0.38023835	+0.88977745
a	2.6540702	Ω	73.36655	-0.85903060	-0.23861361
e	0.1265354	i	15.27437	-0.34276117	-0.38904964
P	4.32	H	13.2	G 0.15	U 2

Residuals in seconds of arc

1983 05 15	095	0.7-	1.2-	1998 12 17	704	0.5-	0.2+	2000 04 02	704	1.0+	0.7+
1996 05 19	566	0.5-	0.5+	1998 12 17	704	0.7-	1.2-	2000 04 02	704	0.5+	0.6+
1996 05 19	566	0.1+	0.4-	1998 12 17	704	0.2-	0.2-	2000 04 02	704	0.6+	1.0+
1996 05 19	566	0.2-	0.4-	1998 12 17	704	0.1-	1.0-	2000 04 02	704	0.5+	1.5+
1996 05 22	566	0.3+	0.0	1998 12 17	704	1.3+	1.3+	2000 04 02	399	0.3+	0.3+
1996 05 22	566	0.4+	0.2+	2000 03 27	399	2.0-	0.1-	2000 04 02	399	0.3-	1.0-
1996 05 22	566	0.1-	0.0	2000 03 27	399	1.0+	0.5-	2000 04 03	399	1.3-	1.2-
1998 12 14	704	0.4+	0.5+	2000 03 27	399	0.7-	2.0-	2000 04 03	399	0.1-	0.4-
1998 12 14	704	0.5-	0.4-	2000 03 27	399	0.0	0.9+	2000 04 14	704	0.3+	0.7+
1998 12 14	704	0.3+	0.9-	2000 03 27	399	0.4-	0.7-	2000 04 14	704	0.4+	0.3-
1998 12 14	704	0.2-	0.1-	2000 03 27	399	0.4+	0.9+	2000 04 14	704	0.2-	0.3+
1998 12 14	704	0.5+	0.8+	2000 04 02	704	0.5+	0.3+				

2000 FC₃₁ = 1998 SD₁₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	17.67091		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.23945181	ω	87.21373	-0.72949070	-0.67435920
a	2.5683683	Ω	50.34963	+0.55358282	-0.68031203
e	0.1984807	i	8.54324	+0.40173298	-0.28708051
P	4.12	H	14.4	G 0.15	U 3

Residuals in seconds of arc

1994 10 06	691	0.2-	0.5+	2000 01 07	704	1.6-	1.9-	2000 03 26	699	0.0	0.1-
1994 10 06	691	0.3-	0.6+	2000 02 03	704	0.5+	0.2-	2000 03 28	704	0.7-	0.8+
1994 10 06	691	0.3-	0.7+	2000 02 03	704	0.7+	0.0	2000 03 28	704	0.2-	0.2-
1998 09 26	704	0.3-	0.8+	2000 02 03	704	0.4+	0.7+	2000 03 28	704	0.0	0.4+
1998 09 26	704	0.6-	0.1+	2000 02 03	704	0.4+	0.6+	2000 04 04	704	0.2-	0.5+
1998 09 26	704	0.7+	0.3+	2000 02 03	704	0.8+	1.3+	2000 04 04	704	0.4+	0.2-
1998 09 26	704	0.3-	0.1-	2000 03 12	704	0.0	0.2-	2000 04 04	704	0.1+	0.4+
1998 09 27	704	0.1+	0.6+	2000 03 12	704	0.1-	0.0	2000 04 04	704	0.1+	0.3+
1998 09 27	704	0.5+	0.5+	2000 03 12	704	0.3-	0.1+	2000 04 04	704	0.4+	0.1+
1998 09 27	704	0.5-	1.4-	2000 03 12	704	0.1-	0.2+	2000 04 08	704	0.0	0.3+
2000 01 07	704	0.3+	1.1-	2000 03 12	704	0.1-	0.2+	2000 04 08	704	0.2+	0.5-
2000 01 07	704	0.1-	1.1-	2000 03 26	699	0.0	0.2-	2000 04 08	704	0.5-	0.5+
2000 01 07	704	0.2-	0.9-	2000 03 26	699	0.1+	0.1-	2000 04 08	704	0.0	0.6+
2000 01 07	704	(0.2-	2.4-)	2000 03 26	699	0.0	0.0	2000 04 08	704	0.4+	0.1+

2000 FN₃₁ = 1997 GQ₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

$\dot{M}$	123.36021		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.29390852	ω	332.92858	+0.83477474	-0.53189884
a	2.2404122	Ω	59.91732	+0.53023236	+0.70700801
e	0.1658685	i	9.46192	+0.14834007	+0.46607220
P	3.35	H	14.0	G	0.15
				U	3

Residuals in seconds of arc

1997 04 07	809	1.2-	1.5-	1999 01 13	69

1998 11 11	699	0.1−	0.4+	2000 01 07	704	0.4+	0.9−	2000 03 28	704	0.3−	0.7−
1998 11 11	699	0.6−	0.7+	2000 01 07	704	0.0	0.3−	2000 03 28	704	0.6−	0.2−
1998 11 23	699	1.1+	0.7−	2000 02 04	704	0.1+	0.2−	2000 03 28	704	0.8−	0.5−
1998 11 23	699	0.2+	0.4+	2000 02 04	704	0.2−	0.8−	2000 04 04	704	0.1−	0.6+
1998 11 23	699	0.9+	0.4+	2000 02 04	704	0.2−	0.4−	2000 04 04	704	0.7+	0.7+
1998 12 08	704	1.9+	0.9−	2000 02 04	704	0.6+	0.2+	2000 04 04	704	0.1+	0.1+
1998 12 08	704	(3.7+	1.3−)	2000 02 04	704	0.1−	0.6−	2000 04 04	704	0.2+	0.2−
1998 12 08	704	2.0+	1.4−	2000 03 05	704	0.6−	0.3+	2000 04 04	704	0.7+	0.4+
1998 12 08	704	0.6−	0.1−	2000 03 05	704	0.4−	0.1−	2000 04 08	704	0.3+	0.0
1998 12 21	910	1.8−	1.8−	2000 03 05	704	0.7−	0.2+	2000 04 08	704	0.7+	0.2−
1998 12 21	910	(2.4−	2.0−)	2000 03 05	704	0.6−	0.0	2000 04 08	704	0.2+	0.5−
1998 12 21	910	1.9−	1.7−	2000 03 05	704	0.3−	0.2+	2000 04 08	704	0.0	0.4+
1999 01 13	699	0.6−	0.6−	2000 03 12	704	0.1+	0.3−	2000 04 08	704	0.3+	0.1+
1999 01 13	699	0.4−	0.2−	2000 03 12	704	0.5+	0.5−				

2000 FQ₃₁ = 1976 WS = 1998 XU₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	239.45886		(2000.0)	P		Q	
<i>n</i>	0.27484250	ω	258.87857	+0.60831513		+0.77498895	
<i>a</i>	2.3428625	Ω	49.97679	−0.61249109		+0.59563603	
<i>e</i>	0.2116532	<i>i</i>	12.92625	−0.50478448		+0.21121044	
<i>P</i>	3.59	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1976 11 18	381	0.6−	0.9+	1999 01 16	704	0.7+	0.7−	2000 03 26	699	0.3−	0.2+
1976 11 18	381	0.4+	0.7−	1999 01 16	704	(1.9+	2.6−)	2000 03 26	699	0.0	0.1+
1998 11 16	704	0.5−	1.8−	1999 01 16	704	0.2−	1.5−	2000 03 26	699	0.4−	0.5+
1998 11 16	704	0.9+	0.8+	1999 01 16	704	1.3+	0.4+	2000 03 28	704	0.2+	0.1−
1998 11 16	704	1.4−	1.7+	1999 01 16	704	0.3−	0.0	2000 03 28	704	0.5+	0.8+
1998 11 16	704	1.3+	0.6−	2000 03 05	704	0.4−	0.4−	2000 03 28	704	0.1+	0.9+
1998 11 16	704	(4.0−	1.4+)	2000 03 05	704	0.7−	0.1−	2000 04 04	704	0.6+	0.3−
1998 12 14	704	0.2−	0.8−	2000 03 05	704	0.3−	0.8−	2000 04 04	704	0.2+	0.4−
1998 12 14	704	0.1−	0.6−	2000 03 05	704	0.4−	0.4−	2000 04 04	704	0.3−	0.5+
1998 12 14	704	1.1−	0.8+	2000 03 05	704	0.3−	0.8−	2000 04 04	704	0.2+	0.2+
1998 12 14	704	0.9−	1.7+	2000 03 12	704	0.5−	0.2−	2000 04 08	704	0.4+	0.0
1998 12 14	704	0.3−	1.3+	2000 03 12	704	0.3+	0.3−	2000 04 08	704	0.3+	0.3+
1998 12 17	704	0.1−	0.8+	2000 03 12	704	0.3+	0.2+	2000 04 08	704	0.5+	0.1+
1998 12 17	704	0.5+	0.0	2000 03 12	704	0.3+	0.0	2000 04 08	704	0.3+	0.1−
1998 12 17	704	0.5+	0.4−	2000 03 12	704	0.4+	0.2−	2000 04 08	704	0.1−	0.0
1998 12 17	704	0.2+	0.9−	2000 03 26	699	0.6−	0.7+				

2000 FS₃₁ = 1996 HB₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	30.70583		(2000.0)	P		Q	
<i>n</i>	0.22661574	ω	74.51326	−0.51969281		−0.84129982	
<i>a</i>	2.6644608	Ω	47.77931	+0.68645323		−0.51485178	
<i>e</i>	0.2135632	<i>i</i>	11.58928	+0.50862692		−0.16474904	
<i>P</i>	4.35	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1996 04 18	809	0.3+	1.0−	2000 03 12	704	(2.7+	0.5−)	2000 04 04	704	0.0	0.4−
1996 04 18	809	0.6+	0.5−	2000 03 12	704	(3.7+	1.0−)	2000 04 04	704	0.3−	0.4+
1996 04 18	809	0.9+	0.8−	2000 03 12	704	(2.2+	0.6−)	2000 04 04	704	0.1+	0.3−
1996 04 20	809	0.5−	1.5+	2000 03 12	704	(3.0+	0.2−)	2000 04 08	704	0.1−	0.1+
1996 04 20	809	0.3−	0.8+	2000 03 12	704	(2.8+	0.2−)	2000 04 08	704	0.4+	0.2+
1996 04 20	809	1.0−	0.1+	2000 03 28	704	0.2−	0.5−	2000 04 08	704	0.5−	0.3+
2000 03 05	704	0.1−	0.3+	2000 03 28	704	0.3+	1.1−	2000 04 08	704	0.1−	0.3+
2000 03 05	704	0.0	0.3+	2000 03 28	704	1.0+	0.4−	2000 04 08	704	0.4−	0.2+
2000 03 05	704	0.2−	0.1+	2000 04 04	704	0.2−	0.4−				
2000 03 05	704	0.3−	0.2+	2000 04 04	704	0.4+	0.8+				

2000 FU₃₁ = 1981 UP₂₂ = 1998 XW₄₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	180.17583		(2000.0)	P		Q	
<i>n</i>	0.23697690	ω	299.40139	+0.97183978		+0.13053438	
<i>a</i>	2.5862195	Ω	53.78463	−0.01041480		+0.85552970	
<i>e</i>	0.1975532	<i>i</i>	14.07328	−0.23541234		+0.50102866	
<i>P</i>	4.16	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1981 10 24	675	0.2+	0.1−	2000 01 07	704	0.1−	1.0−	2000 03 29	704	0.8−	1.2+
1981 10 25	675	0.5+	0.2+	2000 01 07	704	0.9+	1.2−	2000 03 29	704	0.4+	0.8−
1981 10 26	675	1.0−	0.5+	2000 01 07	704	0.7+	0.9−	2000 04 04	704	0.6+	1.1+
1998 12 14	704	0.3+	0.0	2000 03 05	704	0.4+	0.6+	2000 04 04	704	0.3−	0.2+
1998 12 14	704	0.1−	0.5−	2000 03 05	704	0.5+	0.8−	2000 04 04	704	0.2−	0.1−
1998 12 14	704	0.1−	0.5+	2000 03 05	704	1.1+	0.4+	2000 04 04	704	0.2+	0.6−
1998 12 14	704	0.9−	0.7+	2000 03 12	704	0.1−	0.3+	2000 04 04	704	0.0	0.2−
1998 12 17	704	0.4−	0.1+	2000 03 12	704	0.2−	0.3−	2000 04 08	704	0.3−	0.4−
1998 12 17	704	0.3−	0.4−	2000 03 12	704	0.2+	0.0	2000 04 08	704	0.0	0.3+
1998 12 17	704	0.8+	0.6−	2000 03 12	704	0.8−	0.7−	2000 04 08	704	0.3−	0.1+
1998 12 17	704	0.6+	0.8−	2000 03 29	704	0.0	1.0+	2000 04 08	704	0.0	0.0
1998 12 17	704	0.2+	0.8+	2000 03 29	704	0.4−	0.3+	2000 04 08	704	1.1−	0.3+
2000 01 07	704	0.5−	0.2−	2000 03 29	704	0.5+	0.7+				

2000 FG₃₂ = 1994 RK₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	255.70508		(2000.0)	P		Q	
<i>n</i>	0.29169200	ω	154.80858	+0.52583936		+0.84934743	
<i>a</i>	2.2517476	Ω	146.86098	−0.79390721		+0.50943380	
<i>e</i>	0.1714609	<i>i</i>	4.81075	−0.30529380		+0.13815263	
<i>P</i>	3.38	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 09 01	033	0.5+	0.4−	2000 03 29	704	0.2−	0.3+	2000 04 07	699	0.2−	0.5+
1994 09 02	033	0.3+	0.8−	2000 03 29	704	0.4−	0.2+	2000 04 07	699	1.3−	0.2+
1994 09 03	033	0.8−	1.3+	2000 03 29	704	0.3−	0.3−	2000 04 08	704	1.5+	0.7+
2000 03 01	703	0.3+	0.3+	2000 03 29	704	0.3+	0.7+	2000 04 08	704	0.4+	0.5−
2000 03 01	703	0.8−	0.1+	2000 04 02	699	1.0−	0.4+	2000 04 08	704	1.5+	0.1−
2000 03 01	703	0.1−	0.5−	2000 04 02	699	0.7−	0.3+	2000 04 08	704	0.3−	0.5−
2000 03 01	703	0.5+	0.0	2000 04 02	699	0.4−	0.1+	2000 04 08	704	0.6+	0.4+
2000 03 08	704	0.3−	0.3+	2000 04 02	699	1.0−	0.2−	2000 04 10	704	0.5+	1.4−
2000 03 08	704	0.8+	1.2+	2000 04 04	704	0.2+	0.2−	2000 04 10	704	0.0	0.9+
2000 03 08	704	(0.2+	4.5+)	2000 04 04	704	0.0	0.1−	2000 04 10	704	0.8+	1.0+
2000 03 12	704	1.7+	0.3+	2000 04 04	704	0.2−	0.6−	2000 04 10	704	0.7−	0.4+
2000 03 12	704	0.1+	0.3−	2000 04 04	704	0.6+	0.7−	2000 04 10	608	0.0	0.4−
2000 03 12	704	0.3−	1.4−	2000 04 04	704	0.1+	0.5−	2000 04 10	608	0.1+	0.6−
2000 03 12	704	0.0	0.0	2000 04 07	699	0.8−	0.7+	2000 04 10	608	0.2−	0.2−
2000 03 29	704	0.4+	0.5−	2000 04 07	699	0.5−	0.1+				

2000 FJ₃₂ = 1993 OP₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams					
<i>M</i>	284.23390		(2000.0)	P		Q	
<i>n</i>	0.25965541	ω	174.97111	+0.04375508		+0.99816009	
<i>a</i>	2.4333494	Ω	97.53220	−0.91807340		+0.05674288	
<i>e</i>	0.1490053	<i>i</i>	2.42667	−0.39398823		−0.02137006	
<i>P</i>	3.80	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 07 20	809	0.3+	0.9−	2000 03 29	704	0.8+	0.0	2000 04 04	704	0.8−	0.2+
1993 07 20	809	0.0	0.9−	2000 03 29	704	0.2+	0.2−	2000 04 04	704	0.4+	0.1+
1993 07 20	809	0.8+	0.8−	2000 03 29	704	0.2+	0.0	2000 04 04	704	0.6+	0.0
1993 07 24	809	0.1+	0.8−	2000 03 29	704	0.3+	0.3−	2000 04 04	704	0.3+	0.5−
1993 07 26	809	0.1−	0.8+	2000 04 02	699	0.1+	0.2−	2000 04 08	704	0.9+	0.2+
1993 07 26	809	0.8−	1.2+	2000 04 02	699	0.2−	0.6+	2000 04 08	704	0.4−	0.8+
1993 07 26	809	0.3−	1.4+	2000 04 02	699	0.0	0.7+	2000 04 08	704	0.2+	0.5−
2000 03 08	704	1.1−	0.3−	2000 04 02	699	1.2−	0.6−	2000 04 10	704	0.3−	0.2−

2000 APR. 18

M.P.C. 40239

2000 03 08	704	1.0+	0.7−	2000 04 03	699	1.1−	1.1+	2000 04 10	704	0.5+	0.5−
2000 03 08	704	0.3−	0.3+	2000 04 03	699	0.3+	0.3−	2000 04 10	704	0.1+	0.3−
2000 03 08	704	0.0	0.1+	2000 04 03	699	0.9−	0.7+	2000 04 10	704	0.7−	0.7−
2000 03 08	704	1.0+	0.6−	2000 04 03	699	0.3−	0.9+				
2000 03 29	704	0.4+	0.5−	2000 04 04	704	0.2+	0.8+				

2000 FM₃₂ = 1997 WO₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	318.09399		(2000.0)		P		Q
<i>n</i>	0.18063216	ω	188.74166	−0.59524588			+0.80030939
<i>a</i>	3.0993646	Ω	44.76819	−0.73091632			−0.50202891
<i>e</i>	0.1109417	<i>i</i>	5.86988	−0.33383180			−0.32782900
<i>P</i>	5.46	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 10 02	691	0.7−	0.8+	1997 12 04	691	0.8+	0.3+	2000 04 03	699	0.6−	0.2−
1991 10 02	691	0.3−	0.6+	1998 12 17	704	0.2+	1.0+	2000 04 03	699	0.1−	1.1−
1991 10 02	691	0.2−	0.8+	1998 12 17	704	(2.3+	1.1+)	2000 04 03	699	0.2+	0.2−
1997 10 31	704	0.4+	0.6+	1998 12 17	704	0.1−	0.9−	2000 04 03	699	0.6−	0.8−
1997 10 31	704	0.0	1.2−	1998 12 17	704	(3.5−	0.1−)	2000 04 04	704	0.4+	0.3+
1997 10 31	704	(2.4+	1.3+)	2000 03 08	704	0.6−	1.3+	2000 04 04	704	0.0	1.2+
1997 10 31	704	0.9+	0.6−	2000 03 08	704	0.9−	0.0	2000 04 04	704	0.8+	0.2−
1997 11 06	704	(3.5−	1.2+)	2000 03 08	704	1.1−	0.1+	2000 04 04	704	0.7+	0.3−
1997 11 06	704	(2.7−	0.2−)	2000 03 08	704	0.4−	1.7+	2000 04 08	704	0.4+	0.1−
1997 11 06	704	1.3−	1.5+	2000 03 08	704	0.8−	1.4+	2000 04 08	704	0.0	0.1+
1997 11 06	704	1.8−	0.1+	2000 03 29	704	0.5+	0.2+	2000 04 08	704	0.5+	0.2−
1997 11 22	691	0.2+	0.0	2000 03 29	704	0.1−	0.2+	2000 04 08	704	0.6+	0.1+
1997 11 22	691	0.4+	0.0	2000 03 29	704	0.6−	0.2−	2000 04 08	704	0.2+	0.2−
1997 11 22	691	0.2+	0.3−	2000 03 29	704	0.9+	0.1+	2000 04 10	704	0.1+	0.1−
1997 11 28	691	0.6−	0.3−	2000 03 29	704	0.3+	0.0	2000 04 10	704	1.3+	0.1+
1997 11 28	691	0.2−	0.3−	2000 04 02	699	0.6−	0.2−	2000 04 10	704	0.1−	0.2+
1997 11 28	691	0.7−	0.1−	2000 04 02	699	0.4−	0.1+	2000 04 10	704	0.4+	0.1+
1997 12 04	691	1.1+	0.1+	2000 04 02	699	0.7−	0.6−	2000 04 10	704	1.0+	0.3+
1997 12 04	691	1.0+	0.1+	2000 04 02	699	0.2+	0.9−				

2000 FN₃₂ = 1995 WS₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	282.71458		(2000.0)		P		Q
<i>n</i>	0.27748760	ω	126.96904	+0.08200143			+0.99606573
<i>a</i>	2.3279501	Ω	147.68603	−0.93320562			+0.08857338
<i>e</i>	0.1496061	<i>i</i>	3.60353	−0.34986144			−0.00279644
<i>P</i>	3.55	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 04 22	691	0.0	0.1+	2000 03 08	704	0.5−	0.5+	2000 04 04	704	(2.1−	0.1−)
1993 04 22	691	0.1+	0.1−	2000 03 08	704	0.4+	0.5+	2000 04 04	704	1.4+	0.0
1993 04 22	691	0.2−	0.2−	2000 03 08	704	0.8−	1.8+	2000 04 04	704	1.5+	1.1−
1995 11 19	691	0.5+	0.0	2000 03 27	699	0.9−	0.1−	2000 04 06	699	0.2−	0.7+
1995 11 19	691	0.0	0.5−	2000 03 27	699	0.1−	0.5+	2000 04 06	699	0.1−	0.1−
1995 11 19	691	0.6+	0.4−	2000 03 27	699	0.8−	0.2+	2000 04 06	699	0.4−	0.6+
1995 11 29	691	0.2+	0.2−	2000 03 27	699	0.5−	0.3−	2000 04 06	699	0.9+	0.3−
1995 11 29	691	0.3−	0.4−	2000 03 29	704	0.1+	0.2−	2000 04 08	704	0.4−	0.2−
1995 11 29	691	0.4−	0.3+	2000 03 29	704	1.0+	1.6−	2000 04 08	704	0.9+	0.5+
1995 12 26	691	0.5+	0.2−	2000 03 29	704	0.0	0.9−	2000 04 08	704	0.5+	0.2+
1995 12 26	691	0.6−	0.1+	2000 03 29	704	0.0	0.4−	2000 04 08	704	0.5+	0.1+
1995 12 26	691	0.7−	0.2+	2000 03 29	704	0.2+	0.6−	2000 04 08	704	0.3+	0.1−
2000 03 01	703	0.1−	0.1+	2000 04 03	699	0.6+	0.4−	2000 04 10	704	0.6−	0.5−
2000 03 01	703	0.4−	0.1+	2000 04 03	699	0.2−	0.4+	2000 04 10	704	0.5−	0.4−
2000 03 01	703	0.2+	0.8+	2000 04 03	699	0.2+	0.2+	2000 04 10	704	0.4−	0.4−
2000 03 01	703	0.7+	0.5+	2000 04 03	699	0.7−	0.2+	2000 04 10	704	0.1−	0.5−
2000 03 08	704	0.7−	0.7+	2000 04 04	704	1.1−	0.3+				

2000 FQ₃₂ = 1998 WH₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	214.55675		(2000.0)		P		Q
<i>n</i>	0.27584175	ω	197.74809	+0.86275135			+0.50294691
<i>a</i>	2.3372009	Ω	131.94177	−0.45501508			+0.81712596
<i>e</i>	0.0578934	<i>i</i>	4.00914	−0.22050256			+0.28169057
<i>P</i>	3.57	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1993 04 18	691	0.2−	0.5−	1998 12 22	691	1.3−	0.2+	2000 04 04	704	0.6−	0.5+
1995 11 19	691	0.0	0.2−	2000 03 08	704	0.6+	0.5−	2000 04 04	704	0.4−	0.3+
1995 11 19	691	0.2−	0.4−	2000 03 08	704	0.1+	1.1+	2000 04 04	704	0.1−	0.0
1995 11 19	691	0.1+	0.5−	2000 03 08	704	0.2−	0.2+	2000 04 04	704	0.6−	0.0
1998 11 16	566	0.7−	1.2+	2000 03 08	704	0.9−	1.3+	2000 04 08	704	0.1−	0.1−
1998 11 16	566	1.0−	1.3+	2000 03 08	704	0.2−	0.3+	2000 04 08	704	0.1+	1.0−
1998 11 16	566	0.6−	0.8+	2000 03 29	704	0.3+	0.1−	2000 04 08	704	0.2+	0.3+
1998 11 23	699	0.7+	0.2−	2000 03 29	704	0.6+	0.1−	2000 04 08	704	0.4+	0.6−
1998 11 23	699	1.8+	0.8+	2000 03 29	704	0.1−	0.3−	2000 04 08	704	0.1−	0.0
1998 11 23	699	1.0+	0.1−	2000 03 29	704	0.2+	0.0	2000 04 10	704	0.4+	0.1−
1998 11 24	704	0.3+	0.9−	2000 03 29	704	0.1−	0.0	2000 04 10	704	0.1+	0.3+
1998 11 24	704	1.3+	0.4−	2000 04 02	699	0.4+	0.3−	2000 04 10	704	0.3+	0.0
1998 11 24	704	0.9+	1.8−	2000 04 02	699	0.0	0.1+	2000 04 10	704	0.1−	0.1+
1998 11 24	704	0.0	1.2−	2000 04 02	699	0.0	0.0	2000 04 10	704	0.3+	1.1−
1998 12 22	691	1.2−	0.2+	2000 04 02	699	0.0	0.2−				
1998 12 22	691	1.4−	0.2+	2000 04 04	704	0.3−	0.7+				

2000 FR₃₂ = 1992 EJ₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	9.59877		(2000.0)		P		Q
<i>n</i>	0.25124692	ω	125.15065	−0.96975785			−0.23614698
<i>a</i>	2.4873423	Ω	41.28816	+0.18226487			−0.86875807
<i>e</i>	0.1161898	<i>i</i>	5.36355	+0.16232445			−0.43530910
<i>P</i>	3.92	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1992 03 01	809	0.2−	0.3+	2000 03 08	704	1.0−	0.9+	2000 04 04	704	0.5+	0.1−
1992 03 04	809	0.0	0.6−	2000 03 08	704	0.0	0.0	2000 04 04	704	0.4+	0.3+
1998 11 10	704	0.4−	0.4−	2000 03 08	704	(0.5−	2.4+)	2000 04 04	704	0.2+	0.4−
1998 11 10	704	0.8−	0.0	2000 03 29	704	0.2−	0.1+	2000 04 04	704	0.3+	0.4+
1998 11 10	704	0.0	0.4−	2000 03 29	704	0.3−	0.6−	2000 04 08	704	0.0	0.8+
1998 11 10	704	1.4+	1.3−	2000 03 29	704	0.2−	0.0	2000 04 08	704	0.3+	0.3+
1998 11 16	691	0.4−	0.1+	2000 03 29	704	0.5−	0.1+	2000 04 08	704	0.5+	0.4−
1998 11 16	691	0.5−	0.1+	2000 03 29	704	0.2−	0.2+	2000 04 08	704	1.4+	0.8−
1998 11 16	691	0.2−	0.1+	2000 04 02	699	0.4−	0.3−	2000 04 10	704	0.2−	0.5+
1998 11 24	699	0.0	0.7+	2000 04 02	699	0.9−	0.2−	2000 04 10	704	0.1+	0.2+
1998 11 24	699	0.2+	0.1+	2000 04 02	699	0.6−	0.1−	2000 04 10	704	0.0	0.3−
1998 11 24	699	0.6+	1.2+	2000 04 02	699	0.6−	0.2+	2000 04 10	704	0.1−	0.1−
2000 03 08	704	0.7+	0.3−	2000 04 04	704	0.8+	0.3−	2000 04 10	704	0.0	0.2+

2000 FS₃₂ = 1998 TG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	3.09094		(2000.0)		P		Q
<i>n</i>	0.26935148	ω	134.83150	−0.99386804			−0.08792571
<i>a</i>	2.3745964	Ω	40.26561	+0.04647258			−0.88237019
<i>e</i>	0.0726648	<i>i</i>	5.95432	+0.10033252			−0.46226823
<i>P</i>	3.66	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 13	691	0.0	0.1+	2000 04 02	699	0.0	0.0	2000 04 08	704	1.0+	0.0
1998 10 13	691	0.1+	0.1+	2000 04 02	699	0.1−	0.5+	2000 04 08	704	0.3−	0.8−
1998 10 13	691	0.2+	0.0	2000 04 02	699	0.5−	0.3+	2000 04 08	704	1.1+	1.6−
1998 10 18	691	0.6−	0.6−	2000 04 02	699	0.2+	0.2+	2000 04 10	704	0.3−	0.2+
1998 10 18	691	0.4+	0.5+	2000 04 04	704	0.4−	0.0	2000 04 10	704	0.2−	0.2+
2000 03 29	704	0.3+	0.3+	2000 04 04	704	0.0	0.2+	2000 04 10	704	0.2−	0.2+
2000 03 29	704	0.1+	0.3+	2000 04 04	704	0.8−	0.1−	2000 04 10	704	0.9−	0.7+

M.P.C. 40240

2000 APR. 18

2000 03 29	704	0.3−	0.4−	2000 04 04	704	0.1+	0.0	2000 04 10	704	0.4+	0.6+
2000 03 29	704	0.3−	0.0	2000 04 04	704	0.2−	0.6−				
2000 03 29	704	0.6+	0.2−	2000 04 08	704	0.7+	0.1+				

2000 FV₃₂ = 1990 SR₇ = 1998 VU₃₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	122.48667				P		Q				
<i>n</i>	0.25668573	ω	9.12216		+0.64726300		−0.75842479				
<i>a</i>	2.4520815	Ω	40.59594		+0.69174966		+0.54230176				
<i>e</i>	0.1106811	<i>i</i>	6.74573		+0.32020776		+0.36152543				
<i>P</i>	3.84	<i>H</i>	14.9	<i>G</i>	0.15		<i>U</i>	2			

Residuals in seconds of arc

1990 09 22	809	1.6+	0.2+	1998 11 11	704	0.4−	0.4−	2000 03 29	704	1.5−	0.4−
1990 09 22	809	0.1+	1.0−	1998 11 11	704	0.3+	1.1+	2000 03 29	704	1.2−	0.8−
1990 09 22	809	0.3+	1.8−	1998 11 11	704	1.6−	1.7+	2000 04 04	704	0.8+	0.8−
1990 09 25	809	0.2+	0.6−	2000 03 01	703	0.7+	0.7−	2000 04 04	704	0.1−	0.5−
1990 09 25	809	0.8+	0.9−	2000 03 01	703	0.5+	0.3+	2000 04 04	704	0.2+	0.6−
1990 09 25	809	0.1−	0.7−	2000 03 01	703	1.0−	0.0	2000 04 04	704	0.6+	1.2−
1996 03 21	691	0.1−	0.1−	2000 03 01	703	0.0	0.4−	2000 04 08	704	0.0	0.3−
1996 03 21	691	0.3−	0.2−	2000 03 08	704	0.5−	0.7−	2000 04 08	704	0.3−	0.4+
1996 03 21	691	0.4−	0.1−	2000 03 08	704	1.8−	1.2−	2000 04 08	704	0.1+	0.0
1998 11 10	699	(0.5+	2.6+)	2000 03 08	704	1.4+	0.0	2000 04 08	704	0.1−	0.1+
1998 11 10	699	1.0+	0.3+	2000 03 08	704	0.8+	1.5−	2000 04 08	704	0.0	0.4−
1998 11 10	704	0.4−	0.6−	2000 03 27	699	0.6−	0.8+	2000 04 10	704	0.1+	0.6+
1998 11 10	704	1.4−	0.8−	2000 03 27	699	0.3−	0.0	2000 04 10	704	0.5+	0.2−
1998 11 10	699	(0.1+	3.0+)	2000 03 27	699	0.7−	1.1+	2000 04 10	704	1.1+	1.7+
1998 11 10	699	0.5+	0.6−	2000 03 27	699	0.4−	0.5+	2000 04 10	704	0.3+	0.5+
1998 11 10	704	1.0+	1.0−	2000 03 29	704	0.9−	0.7−	2000 04 10	704	1.2+	0.2+
1998 11 10	699	(0.3−	3.7+)	2000 03 29	704	1.7−	0.2+				
1998 11 10	699	1.1+	0.4−	2000 03 29	704	0.5+	1.6−				

2000 FE₃₃ = 1993 FC₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	305.26587				P		Q				
<i>n</i>	0.28206243	ω	199.84168		−0.47990813		+0.87322957				
<i>a</i>	2.3027099	Ω	41.59884		−0.78673949		−0.38567736				
<i>e</i>	0.0766114	<i>i</i>	7.32150		−0.38823854		−0.29786421				
<i>P</i>	3.49	<i>H</i>	15.7	<i>G</i>	0.15		<i>U</i>	6			

Residuals in seconds of arc

1993 03 17	809	1.1−	0.7+	2000 03 29	704	0.2+	1.3−	2000 04 04	704	0.2−	0.4+
1993 03 18	809	0.8+	0.6−	2000 03 29	704	0.5+	0.4+	2000 04 04	704	0.6+	0.5+
1993 03 19	691	0.1+	0.1−	2000 03 29	704	0.1−	0.3−	2000 04 10	704	0.5−	0.5−
1993 03 19	691	0.2−	0.1−	2000 04 02	699	0.2−	0.0	2000 04 10	704	0.5−	0.5+
1993 03 19	691	0.2+	0.1−	2000 04 02	699	1.1−	0.2+	2000 04 10	704	0.5+	0.3−
1993 03 23	809	0.3+	0.4+	2000 04 02	699	1.1−	0.2−	2000 04 10	704	0.9+	0.0
2000 03 29	704	0.6+	0.3+	2000 04 02	699	(1.4−	2.2−)				
2000 03 29	704	0.3+	0.2+	2000 04 04	704	0.0	0.1+				

2000 FJ₃₃ = 1998 WN₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	26.07716				P		Q				
<i>n</i>	0.18015571	ω	105.70154		−0.76539849		−0.64008995				
<i>a</i>	3.1048267	Ω	34.57928		+0.53624410		−0.69164418				
<i>e</i>	0.2245861	<i>i</i>	6.75005		+0.35581936		−0.33453428				
<i>P</i>	5.47	<i>H</i>	13.9	<i>G</i>	0.15		<i>U</i>	3			

Residuals in seconds of arc

1998 11 18	704	0.6−	0.4+	2000 03 29	704	0.4−	0.4+	2000 04 07	704	0.5+	0.4−
1998 11 18	704	0.5+	1.0−	2000 03 29	704	0.4−	0.3+	2000 04 07	704	0.7+	0.7+
1998 11 18	704	1.5+	1.2−	2000 03 29	704	0.1+	0.1−	2000 04 07	704	0.2+	0.1+
1998 11 18	704	0.5+	1.4−	2000 03 29	704	1.5−	1.3+	2000 04 08	704	0.8−	0.5−
1998 11 21	704	1.5−	0.0	2000 04 02	699	0.2−	0.2−	2000 04 08	704	0.1−	0.2−
1998 11 21	704	1.0−	1.3+	2000 04 02	699	0.4−	0.0	2000 04 08	704	0.1+	0.4+

1998 11 21	704	1.2−	0.5−	2000 04 02	699	0.4−	0.1+	2000 04 08	704	0.8+	0.7−
1998 11 21	704	(0.0	2.1+)	2000 04 02	699	0.4−	0.2−	2000 04 08	704	0.3+	0.5−
1998 12 14	704	0.1+	0.4+	2000 04 04	704	0.2−	0.1+	2000 04 08	704	0.0	0.0
1998 12 14	704	1.3+	1.4+	2000 04 04	704	0.0	0.4+	2000 04 08	704	0.4+	0.0
1998 12 14	704	0.7+	0.0	2000 04 04	704	0.0	0.4+	2000 04 08	704	0.0	0.4+
1998 12 14	704	(6.9−	0.4−)	2000 04 04	704	0.4−	0.5+	2000 04 08	704	0.0	0.1−
2000 01 10	704	0.3+	0.8−	2000 04 04	704	0.1−	0.1−	2000 04 08	704	0.2−	0.1−
2000 01 10	704	0.6+	0.0	2000 04 06	704	0.0	0.1+	2000 04 10	704	0.2−	0.0
2000 01 10	704	0.3−	0.2−	2000 04 06	704	0.8−	0.4+	2000 04 10	704	0.2−	0.1+
2000 01 10	704	0.4−	1.8+	2000 04 06	704	0.2−	0.6+	2000 04 10	704	0.1−	0.1+
2000 03 08	704	1.0+	0.5−	2000 04 06	699	0.1−	0.1+	2000 04 10	704	0.2+	0.3−
2000 03 08	704	0.5+	0.3−	2000 04 06	699	0.0	0.1+	2000 04 10	704	0.8−	0.0
2000 03 08	704	0.7+	0.4−	2000 04 06	699	0.1+	0.2+	2000 04 13	704	1.4+	1.0−
2000 03 08	704	0.5+	0.4−	2000 04 06	699	0.1−	0.1−	2000 04 13	704	0.9+	1.3−
2000 03 08	704	0.8+	0.2+	2000 04 07	704	0.2−	0.1−	2000 04 13	704	0.6−	1.2−
2000 03 29	704	0.5−	0.3+	2000 04 07	704	0.0	0.2+				

2000 FM₃₃ = 1998 XP₄₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.17820				P		Q				
<i>n</i>	0.22493593	ω	206.17716		+0.06441428		+0.97552798				
<i>a</i>	2.6777098	Ω	68.12735		−0.87122187		+0.15770669				
<i>e</i>	0.1472717	<i>i</i>	13.09320		−0.48664490		−0.15321148				
<i>P</i>	4.38	<i>H</i>	12.7	<i>G</i>	0.15		<i>U</i>	3			

Residuals in seconds of arc

1998 12 14	704	0.8−	0.0	2000 01 07	704	0.7+	0.9+	2000 03 29	704	0.1−	0.1+
1998 12 14	704	0.5+	0.7−	2000 01 07	704	0.0	0.4+	2000 03 29	704	0.2−	0.4+
1998 12 14	704	0.3−	0.9−	2000 01 07	704	0.4+	1.3+	2000 03 29	704	0.0	0.0
1998 12 14	704	(2.0+	0.1+)	2000 01 07	704	0.2+	1.2+	2000 04 04	704	0.4−	0.1−
1998 12 14	704	1.3+	0.0	2000 02 03	704	0.2+	0.7−	2000 04 04	704	0.4−	0.4−
1998 12 17	704	0.2+	0.1−	2000 02 03	704	0.5+	0.7−	2000 04 04	704	0.4−	0.5−
1998 12 17	704	0.6−	0.8−	2000 02 03	704	0.6+	0.2−	2000 04 04	704	0.7−	0.3−
1998 12 17	704	0.7−	0.4−	2000 02 03	704	0.1−	0.4−	2000 04 04	704	0.4+	0.1+
1998 12 17	704	0.4−	0.3+	2000 02 03	704	0.6+	1.0+	2000 04 08	704	0.3−	0.5−
1998 12 17	704	0.8−	0.9+	2000 03 05	704	0.4+	0.5+	2000 04 08	704	0.2−	0.2−
1999 01 16	704	0.0	0.1−	2000 03 05	704	0.8+	0.4+	2000 04 08	704	0.3+	1.1−
1999 01 16	704	1.0−	0.3+	2000 03 05	704	0.6+	0.2+	2000 04 08	704	0.8−	0.3−
1999 01 16	704	1.3+	0.8+	2000 03 05	704	0.9+	0.3+	2000 04 13	704	0.9−	0.4−
1999 01 16	704	1.7+	0.6−	2000 03 05	704	0.8+	0.2+	2000 04 13	704	0.2−	0.6−
1999 11 16	703	0.4+	0.2−	2000 03 12	704	0.1−	0.4+	2000 04 13	704	0.3−	0.8−
1999 11 16	703	0.4+	1.2−	2000 03 12	704	0.3−	0.1−	2000 04 14	704	0.2−	0.9−
1999 11 16	703	0.3−	1.1+	2000 03 12	704	0.1−	0.1+	2000 04 14	704	0.3−	0.3+
1999 11 16	703	0.6−	0.0	2000 03 12	704	0.1−	0.2+	2000 04 14	704	0.2+	0.2+
2000 01 07	704	0.2−	0.3+	2000 03 29	704	0.2−	0.3+	2000 04 14	704	0.2+	0.0

2000 FN₃₃ = 1991 LH₅ = 1998 XB₅₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	90.75595				P		Q				
<i>n</i>	0.20002221	ω	347.03007		+0.18012980		−0.95636642				
<i>a</i>	2.8956800	Ω	92.24153		+0.92178140		+0.08249488				
<i>e</i>	0.0335807	<i>i</i>	13.30956		+0.34332537		+0.28028178				
<i>P</i>	4.93	<i>H</i>	13.3	<i>G</i>	0.15		<i>U</i>	4			

Res

2000 APR. 18

1998 12 16	704	0.4+	0.7−	2000 02 04	704	0.4−	0.2−	2000 04 08	704	0.1+	0.8+
1998 12 16	704	0.8+	0.7−	2000 03 29	704	0.0	0.7+	2000 04 08	704	0.1+	0.0

2000 FV₃₃ = 1997 UX₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	192.83558		(2000.0)		P		Q
n	0.19573180	ω	256.86941		+0.97699705		+0.20475093
a	2.9378422	Ω	91.29201		−0.16516298		+0.90334668
e	0.0436087	i	3.41852		−0.13489978		+0.37688438
P	5.04	H	13.7	G	0.15	U	4

Residuals in seconds of arc

1997 10 29	566	0.5−	0.6+	2000 02 27	703	(2.3−	1.3−)	2000 04 04	704	1.7+	0.4−
1997 10 29	566	0.6−	0.7+	2000 03 05	608	(0.1+	2.7−)	2000 04 04	704	0.5−	0.5−
1997 10 29	566	0.7−	0.5+	2000 03 05	608	0.0	1.4−	2000 04 04	704	0.0	0.9+
1997 10 30	566	0.2−	0.9+	2000 03 05	608	0.7+	1.6−	2000 04 07	699	0.6+	0.3+
1997 10 30	566	0.1−	1.2+	2000 03 12	704	0.1−	0.6+	2000 04 07	699	0.0	0.3+
1997 10 30	566	0.1+	0.6+	2000 03 12	704	0.1+	0.5+	2000 04 07	699	0.1+	0.9+
1998 12 14	704	0.3+	0.5−	2000 03 12	704	1.1−	0.1+	2000 04 07	699	0.1+	0.8+
1998 12 14	704	0.1+	0.5+	2000 03 12	704	0.1−	0.2+	2000 04 08	704	0.0	0.3+
1998 12 14	704	0.1−	1.0+	2000 03 26	699	0.1+	0.0	2000 04 08	704	1.2+	0.2−
1998 12 14	704	0.2−	0.7−	2000 03 26	699	0.1+	0.8+	2000 04 08	704	0.4+	0.3+
1999 01 16	704	0.2+	0.4+	2000 03 26	699	0.2−	0.5+	2000 04 08	704	0.5−	0.8+
1999 01 16	704	1.3−	1.6−	2000 03 26	699	0.2+	0.5+	2000 04 08	704	0.8−	0.5+
1999 01 16	704	1.0+	0.7+	2000 03 29	704	0.2+	0.2−	2000 04 10	704	0.9+	0.4−
1999 01 16	704	0.3+	0.6−	2000 03 29	704	0.0	0.3+	2000 04 10	704	0.6+	0.2+
2000 02 27	703	0.6−	0.1+	2000 03 29	704	0.5−	0.5+	2000 04 10	704	1.3−	0.7+
2000 02 27	703	0.2−	0.6−	2000 03 29	704	0.4+	0.0				
2000 02 27	703	0.1−	0.7+	2000 04 04	704	0.7+	0.8−				

2000 FZ₃₃ = 1996 RX₂₄ = 1999 BX₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	253.28715		(2000.0)		P		Q
n	0.18591937	ω	177.79050		+0.69489985		+0.71788283
a	3.0403223	Ω	136.22483		-0.66069339		+0.66038842
e	0.2503914	i	3.47498		-0.28389864		+0.22029837
P	5.30	H	13.8	G	0.15	U	4

Residuals in seconds of arc

1996 09 11	691	0.1−	0.3+	2000 03 27	699	0.2−	0.0	2000 04 04	704	0.2−	1.2+
1996 09 11	691	0.1−	0.5+	2000 03 27	699	0.8−	0.1−	2000 04 07	699	0.6+	1.0−
1996 09 11	691	0.3−	0.0	2000 03 27	699	1.2−	0.4+	2000 04 07	699	0.2−	0.3−
1996 09 16	566	0.2+	0.1+	2000 03 27	699	0.4−	0.1−	2000 04 07	699	0.0	0.2+
1996 09 16	566	0.0	0.0	2000 03 29	704	0.9+	0.8−	2000 04 07	699	0.6−	0.3−
1996 09 16	566	0.1+	0.1−	2000 03 29	704	1.7+	0.2−	2000 04 10	704	0.3+	0.1+
1999 01 18	691	0.5−	0.3+	2000 03 29	704	0.6−	0.2−	2000 04 10	704	0.9−	0.2+
1999 01 18	691	0.4−	0.1+	2000 03 29	704	1.4+	1.1−	2000 04 10	704	0.7+	0.2−
1999 01 18	691	0.4−	0.1+	2000 04 04	704	0.3−	0.3+	2000 04 10	704	0.6−	0.2−
1999 01 23	691	0.5+	0.0	2000 04 04	704	0.3+	0.7+	2000 04 10	704	0.3−	0.8+
1999 01 23	691	0.4+	0.4−	2000 04 04	704	0.1−	0.6+				
1999 01 23	691	0.5+	0.5+	2000 04 04	704	0.6+	0.8+				

2000 FL₃₄ = 1998 XS₆₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	124.21992		(2000.0)		P		Q
n	0.23400422	ω	339.63114		+0.69501679		−0.67262901
a	2.6080761	Ω	65.32685		+0.69229752		+0.53068174
e	0.1077959	i	16.23226		+0.19410255		+0.51570060
P	4.21	H	13.5	G	0.15	U	5

Residuals in seconds of arc

1998 12 14	704	0.5+	0.3+	2000 03 15	704	0.6+	0.6+	2000 04 04	704	1.3−	0.0
1998 12 14	704	0.7−	1.0−	2000 03 15	704	0.4−	0.6−	2000 04 08	704	0.6−	0.8+
1998 12 14	704	1.1+	1.0+	2000 03 29	704	0.0	0.1−	2000 04 08	704	0.2−	0.7+
1998 12 14	704	0.9+	0.6−	2000 03 29	704	0.3+	0.6−	2000 04 08	704	0.3+	0.6+

M.P.C. 40241

1998 12 17	704	1.9−	0.8+	2000 03 29	704	0.3−	0.3+	2000 04 08	704	0.8+	1.4+
1998 12 17	704	0.2−	0.8+	2000 03 29	704	0.1−	0.2−	2000 04 08	704	0.7+	1.5+
1998 12 17	704	0.4−	1.3−	2000 03 29	704	0.1+	0.1+	2000 04 11	608	0.6+	1.1−
1998 12 17	704	0.6+	0.1−	2000 04 04	704	0.4+	1.4−	2000 04 11	608	0.7−	0.9−
2000 03 15	704	0.4−	0.0	2000 04 04	704	0.2−	0.4+	2000 04 11	608	0.7+	1.4−
2000 03 15	704	0.6+	0.1+	2000 04 04	704	0.7−	0.3−				

2000 FT₃₄ = 1995 CM₉ = 1997 UG₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	278.56429		(2000.0)		P		Q
n	0.22450532	ω	208.91923		+0.27236398		+0.96094045
a	2.6811326	Ω	76.92143		−0.87281543		+0.26822215
e	0.1877992	i	2.88967		−0.40498283		+0.06819334
P	4.39	H	14.8	G	0.15	U	2

Residuals in seconds of arc

1994 01 10	691	0.1−	0.5−	2000 03 29	704	0.5−	0.5+	2000 04 07	704	0.7+	0.3+
1994 01 10	691	0.4−	0.2−	2000 03 29	704	0.6−	0.5+	2000 04 07	704	0.6+	0.1−
1994 01 10	691	0.1−	0.2+	2000 03 29	704	0.9−	0.3+	2000 04 07	704	0.0	0.9−
1995 02 04	691	0.1+	0.1−	2000 03 29	704	0.2−	0.6+	2000 04 07	704	0.7−	0.5+
1995 02 04	691	0.4+	0.0	2000 04 04	704	0.7−	0.1+	2000 04 08	704	0.3+	0.1+
1995 02 05	691	0.1+	0.1−	2000 04 04	704	0.3−	0.1−	2000 04 08	704	0.4+	0.1+
1995 02 05	691	0.0	0.8−	2000 04 04	704	0.2+	0.6+	2000 04 08	704	0.7+	0.2+
1995 02 05	691	0.4−	0.6−	2000 04 04	704	0.6−	0.9+	2000 04 08	704	0.0	0.7−
1997 10 27	688	0.1−	0.6+	2000 04 04	704	0.4−	0.1+	2000 04 10	704	0.5−	0.7+
1997 10 27	688	0.3−	0.7+	2000 04 06	699	0.9+	0.4+	2000 04 10	704	0.4+	0.3+
1997 10 28	688	0.1+	1.1+	2000 04 06	699	0.5+	0.6−	2000 04 10	704	0.5+	0.8−
1997 10 28	688	0.5−	0.7+	2000 04 06	699	0.1+	0.2−	2000 04 10	704	0.4−	0.1+
2000 03 29	704	0.9+	0.1+	2000 04 06	699	0.7+	0.2+				

2000 FU₃₄ = 1995 CY₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	311.45159		(2000.0)		P		Q
n	0.22611994	ω	135.71052		−0.33911472		+0.93988094
a	2.6683542	Ω	114.42855		−0.87494839		−0.29936324
e	0.2045988	i	2.53761		−0.34563930		−0.16433340
P	4.36	H	15.3	G	0.15	U	5

Residuals in seconds of arc

1995 02 02	691	0.1+	0.4−	2000 04 04	704	0.6+	0.7+	2000 04 08	704	0.4+	0.4+
1995 02 02	691	0.2+	0.4−	2000 04 04	704	0.3+	0.5+	2000 04 08	704	0.7+	0.4−
1995 02 02	691	0.4−	1.0−	2000 04 04	704	0.3+	0.9−	2000 04 08	704	0.9+	0.5−
1995 02 06	691	0.5+	0.8+	2000 04 04	704	0.2+	1.9+	2000 04 08	704	0.4+	0.2−
1995 02 06	691	0.4+	0.4−	2000 04 04	704	0.1+	0.4+	2000 04 08	704	0.5+	0.4−
1995 02 06	691	0.9−	1.7+	2000 04 06	699	0.5−	0.1+	2000 04 08	704	0.1+	0.1+
2000 03 08	704	0.0	0.8−	2000 04 06	699	1.2−	0.8−	2000 04 08	704	1.2−	1.1−
2000 03 08	704	0.6−	1.0−	2000 04 06	699	0.6−	0.5+	2000 04 08	704	0.6+	0.3−
2000 03 08	704	0.6+	0.5−	2000 04 06	699	0.8−	0.6+	2000 04 08	704	0.0	0.1−
2000 03 29	704	0.4−	0.1−	2000 04 07	704	0.1−	0.1−	2000 04 08	704	0.5+	0.7+
2000 03 29	704	0.5−	0.3+	2000 04 07	704	0.8−	0.7−	2000 04 10	704	0.4+	0.3−
2000 03 29	704	0.2+	0.1−	2000 04 07	704	0.2+	0.5+	2000 04 10	704	0.3+	1.0+
2000 03 29	704	0.0	0.1+	2000 04 07	704	0.3−	0.2−	2000 04 10	704	0.2+	0.0
2000 03 29	704	0.2−	0.8+	2000 04 07	704	0.3−	0.0	2000 04 10	704	0.1−	0.3−

2000 FX₃₄ = 1996 FL₂₀ = 1998 TB₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	21.17556		(2000.0)		P		Q
n	0.23910641	ω	115.32551		−0.88209161		−0.46360985
a	2.5708411	Ω	37.21448		+0.36707751		−0.78761016
e	0.1378501	i	7.94033		+0.29524310		−0.40587700
P	4.12	H	15.3	G	0.15	U	4

M.P.C. 40242

1996 03 24	809	0.4−	0.1−	2000 03 29	704	0.9+	0.6−	2000 04 07	704	0.1−	0.1+
1996 03 26	809	(4.5+	1.4+)	2000 03 29	704	0.9+	0.7−	2000 04 07	704	0.2+	0.0
1996 03 26	809	(3.5+	2.5+)	2000 04 04	704	0.2−	0.3−	2000 04 07	699	0.3+	1.6+
1996 03 26	809	(2.6+	3.4+)	2000 04 04	704	0.3+	0.4−	2000 04 07	704	0.2+	0.6+
1998 10 14	691	0.0	0.1+	2000 04 04	704	0.3+	0.4−	2000 04 07	704	0.3+	0.0
1998 10 14	691	0.2+	0.1+	2000 04 04	704	0.3−	0.0	2000 04 07	704	0.5−	0.9+
1998 10 14	691	0.1−	0.0	2000 04 04	704	0.2−	0.8−	2000 04 08	704	0.6+	1.6+
1998 10 19	691	0.1−	0.3+	2000 04 06	704	0.3+	0.7−	2000 04 08	704	0.6+	0.3+
1998 10 19	691	0.2−	0.4+	2000 04 06	704	0.1−	0.4−	2000 04 08	704	0.9−	0.0
1998 10 19	691	0.3−	0.2+	2000 04 06	704	0.9−	0.5+	2000 04 08	704	0.7−	0.4−
2000 03 27	699	0.1−	0.8−	2000 04 06	699	0.6−	0.1−	2000 04 10	704	0.3+	0.4+
2000 03 27	699	1.1−	0.1+	2000 04 06	699	0.1−	0.1+	2000 04 10	704	0.2+	0.2+
2000 03 27	699	0.1+	0.8−	2000 04 06	699	0.2−	0.2−	2000 04 10	704	0.3+	0.3−
2000 03 27	699	0.1+	0.6−	2000 04 06	699	1.5−	0.3−	2000 04 10	704	0.1+	0.0
2000 03 29	704	0.4−	0.8−	2000 04 07	699	0.7−	0.6+	2000 04 10	704	0.3+	0.5−

2000 FY₃₄ = 1998 VG₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5											
<i>M</i>	155.94150			Williams							
				<i>P</i>		<i>Q</i>					
<i>n</i>	0.28884880	ω	250.47659	+0.92599737	−0.37343179						
<i>a</i>	2.2664997	Ω	131.40843	+0.36815081	+0.86063966						
<i>e</i>	0.1877689	<i>i</i>	4.24183	+0.08362923	+0.34619079						
<i>P</i>	3.41	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1998 11 10	704	0.3−	0.5+	2000 03 08	704	0.3+	0.3−	2000 04 04	704	0.9+	0.8+
1998 11 10	704	0.2+	0.1−	2000 03 08	704	0.4+	0.1−	2000 04 07	699	0.1−	0.3+
1998 11 10	704	0.2+	0.1+	2000 03 29	704	0.1−	0.3+	2000 04 07	699	(0.9+	2.1+)
1998 11 10	704	0.1+	0.6−	2000 03 29	704	1.1−	0.7−	2000 04 07	699	0.1+	1.0+
1998 11 11	704	0.7−	0.8+	2000 03 29	704	0.2+	0.7+	2000 04 07	704	0.2−	0.7−
1998 11 11	704	1.0−	0.5+	2000 03 29	704	0.1−	0.4+	2000 04 07	704	0.3+	0.5−
1998 11 11	704	1.2−	0.5−	2000 03 29	704	0.4−	0.6−	2000 04 07	699	0.7−	0.2+
1998 11 18	704	0.7+	0.5+	2000 04 03	699	0.4−	0.4+	2000 04 07	704	0.7+	0.0
1998 11 18	704	0.9+	0.3−	2000 04 03	699	0.8−	0.6+	2000 04 07	704	1.3+	0.6−
1998 11 18	704	0.5+	0.5−	2000 04 03	699	0.4−	0.6+	2000 04 07	704	0.7+	1.5−
1998 11 18	704	0.1+	0.1−	2000 04 03	699	0.2+	0.3−	2000 04 08	704	0.3+	0.1−
1998 11 18	704	0.5+	0.1−	2000 04 04	704	0.9−	0.8+	2000 04 08	704	1.0−	1.5+
2000 03 08	704	0.9+	1.5−	2000 04 04	704	0.3−	0.1+	2000 04 08	704	0.0	1.2−
2000 03 08	704	0.3−	1.0+	2000 04 04	704	0.5+	0.6+	2000 04 08	704	0.1−	0.0
2000 03 08	704	0.2−	0.9−	2000 04 04	704	0.5+	0.3−				

2000 FC₃₅ = 1996 HQ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5											
<i>M</i>	109.76664			Williams							
				<i>P</i>		<i>Q</i>					
<i>n</i>	0.23373117	ω	283.65881	+0.39662532	−0.91724133						
<i>a</i>	2.6101069	Ω	142.90551	+0.86407443	+0.35948643						
<i>e</i>	0.0966610	<i>i</i>	3.50126	+0.30994150	+0.17157463						
<i>P</i>	4.22	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4				

Residuals in seconds of arc

1996 04 17	691	0.6−	0.2+	2000 03 29	704	0.2+	0.2−	2000 04 06	699	0.3−	0.2−
1996 04 17	691	0.3−	0.0	2000 03 29	704	0.2+	1.3−	2000 04 06	699	0.9−	0.1+
1996 04 17	691	0.1+	0.1+	2000 03 29	704	0.1−	0.7−	2000 04 06	699	0.4−	0.1−
1996 04 21	691	0.5+	0.1−	2000 03 29	704	0.5−	1.1−	2000 04 06	699	0.3−	0.1−
1996 04 21	691	0.2+	0.2−	2000 03 29	704	1.3+	1.2−	2000 04 08	704	0.2+	0.1−
2000 03 01	703	0.4−	0.3+	2000 04 02	699	0.1−	0.6+	2000 04 08	704	0.6+	0.1+
2000 03 01	703	(3.8−	1.5+)	2000 04 02	699	0.4+	0.0	2000 04 08	704	0.7+	0.2−
2000 03 01	703	0.1+	0.8−	2000 04 02	699	0.1+	0.8+	2000 04 08	704	0.1+	0.3+
2000 03 01	703	0.4+	0.6+	2000 04 02	699	0.1+	0.5+	2000 04 08	704	0.8+	0.1+
2000 03 08	704	0.5+	1.1+	2000 04 04	704	0.3−	0.2+	2000 04 10	704	0.9−	0.9+
2000 03 08	704	0.0	0.3+	2000 04 04	704	0.8−	0.2+	2000 04 10	704	0.1+	0.2+
2000 03 08	704	0.9−	0.2+	2000 04 04	704	0.3−	0.1+	2000 04 10	704	0.3+	0.4−
2000 03 08	704	0.2+	0.0	2000 04 04	704	0.2−	0.2−	2000 04 10	704	0.4+	0.3−
2000 03 08	704	0.0	0.8−	2000 04 04	704	0.2+	1.0+	2000 04 10	704	0.3−	0.2+

2000 APR. 18

2000 FD₃₅ = 1996 LY₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5											
<i>M</i>	136.24586			Williams							
				<i>P</i>		<i>Q</i>					
<i>n</i>	0.21423782	ω	230.59171	+0.74653015	−0.66502887						
<i>a</i>	2.7661260	Ω	171.02554	+0.64396591	+0.71435261						
<i>e</i>	0.1475548	<i>i</i>	7.63309	+0.16733393	+0.21780026						
<i>P</i>	4.60	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5				

Residuals in seconds of arc

1996 06 11	691	0.1+	0.1+	2000 03 29	704	1.3+	1.2−	2000 04 06	699	0.5−	0.5+
1996 06 11	691	0.1+	0.1−	2000 03 29	704	0.4−	0.6−	2000 04 08	704	0.8−	0.3−
1996 06 11	691	0.3+	0.3−	2000 03 29	704	0.0	1.1−	2000 04 08	704	0.0	0.0
1996 06 23	691	0.1−	0.2+	2000 04 04	704	0.2−	0.1+	2000 04 08	704	0.1−	0.1+
1996 06 23	691	0.2−	0.1+	2000 04 04	704	(2.1−	1.0+)	2000 04 08	704	0.1−	0.8−
1996 06 23	691	0.2−	0.1+	2000 04 04	704	0.1−	0.0	2000 04 08	704	0.4+	0.7−
2000 03 08	704	0.4+	0.4+	2000 04 04	704	0.2−	1.0+	2000 04 10	704	0.6+	0.7+
2000 03 08	704	0.2−	0.9−	2000 04 04	704	0.4−	0.6+	2000 04 10	704	0.4−	0.2+
2000 03 08	704	0.1+	1.1+	2000 04 06	699	0.8−	0.3+	2000 04 10	704	0.5−	0.5+
2000 03 08	704	0.1+	0.4+	2000 04 06	699	0.3+	0.2+	2000 04 10	704	0.4−	0.5−
2000 03 29	704	0.2+	0.8−	2000 04 06	699	1.7+	0.6+	2000 04 10	704	0.1+	0.2+

2000 FE₃₅ = 1991 PH₃₀ = 1991 RM₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5											
<i>M</i>	207.99185			Williams							
				<i>P</i>		<i>Q</i>					
<i>n</i>	0.30410887	ω	211.30050	+0.95133757	+0.30397395						
<i>a</i>	2.1900296	Ω	130.91601	−0.26709020	+0.89523391						
<i>e</i>	0.1364682	<i>i</i>	3.83664	−0.15368686	+0.32581602						
<i>P</i>	3.24	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	3				

Residuals in seconds of arc

1991 08 14	809	0.9−	1.3−	2000 04 02	699	0.2+	0.1−	2000 04 07	704	0.3−	0.5−
1991 08 14	809	1.4+	0.6−	2000 04 02	699	0.4+	0.5+	2000 04 07	704	0.1+	0.3+
1991 08 14	809	0.8+	0.2−	2000 04 02	699	0.1−	1.2−	2000 04 07	704	0.9+	0.1+
1991 09 04	809	0.6+	0.2−	2000 04 02	699	0.6−	0.1−	2000 04 08	704	0.7−	0.8−
1991 09 04	809	0.9−	0.2−	2000 04 03	699	0.4−	0.2+	2000 04 08	704	0.2+	0.2−
1991 09 04	809	1.2−	0.7−	2000 04 03	699	0.2−	0.1+	2000 04 08	704	1.5+	0.6+
1991 09 07	809	0.2+	1.6+	2000 04 03	699	0.7−	0.9−	2000 04 08	704	0.6−	0.1−
1991 09 07	809	0.2+	1.5+	2000 04 03	699	0.4−	0.1−	2000 04 08	704	1.0+	0.6+
1991 09 07	809	0.2−	0.6+	2000 04 04	704	0.7−	0.8−	2000 04 08	704	0.6−	0.3−
1997 04 11	704	1.9+	1.6+	2000 04 04	704	0.7+	0.5+	2000 04 08	704	0.4−	0.2−
1997 04 11	704	0.9−	0.7−	2000 04 04	704	0.2+	0.2−	2000 04 08	704	1.2−	1.6+
1997 04 11	704	0.9−	0.3+	2000 04 04	704	0.9+	0.0	2000 04 08	704	0.8+	0.5−
1997 04 11	704	0.3−	1.1−	2000 04 06	699	0.2+	0.1+	2000 04 10	704	0.2+	0.6+
2000 03 01	703	0.8−	0.7−	2000 04 06	699	0.5+	0.2−	2000 04 10	704	0.2−	1.6−
2000 03 01	703	0.7+	1.0−	2000 04 06	699	0.2+	0.1−	2000 04 10	704	0.3−	0.2+
2000 03 01	703	1.1+	0.3+	2000 04 06	699	0.7−	0.5−	2000 04 10	704	0.1+	0.5+
2000 03 01	703	0.3−	0.0	2000 04 07	699	0.4−	0.2−	2000 04 10	704	0.0	0.6−
2000 03 29	704	0.1+	0.5−	2000 04 07	699	0.7−	0.0	2000 04 10	704	0.4−	1.9+
2000 03 29	704	0.4+	0.3+	2000 04 07	699	0.1+	0.2−	2000 04 10	704	0.7−	0.1−
2000 03 29	704	0.4+	0.3−	2000 04 07	704	0.0	0.7−	2000 04 10	704	0.7−	0.7+
2000 03 29	704	0.5+	0.5+	2000 04 07	704	0.1−	0.2+	2000 04 10	704	0.0	0.3+
2000 03 29	704	0.9+	1.7+	2000 04 07	699	0.2−	0.5+	2000 04 10	704	0.2+	0.5+

2000 APR. 18

M.P.C. 40243

1996 04 22	566	0.1−	0.4−	2000 03 27	699	0.4−	0.2+	2000 04 06	699	0.5−	0.1−
1996 04 22	566	0.0	0.0	2000 03 27	699	0.4−	0.0	2000 04 06	699	0.2−	0.0
1996 04 22	566	0.0	0.2+	2000 03 27	699	0.4−	0.2+	2000 04 08	704	1.1+	0.1−
1998 12 12	704	0.6+	0.5−	2000 03 27	699	0.4−	0.4−	2000 04 08	704	1.3+	1.7+
1998 12 12	704	1.2−	1.3−	2000 03 29	704	0.1+	0.0	2000 04 08	704	(2.7+	0.5−)
1998 12 12	704	1.5+	0.1−	2000 03 29	704	0.0	0.1+	2000 04 08	704	(2.2+	1.2+)
1998 12 12	704	0.4−	1.3−	2000 03 29	704	0.0	0.3−	2000 04 08	704	0.5+	1.5+
1998 12 12	704	0.6−	0.5+	2000 03 29	704	0.3−	0.1−	2000 04 10	704	0.2−	0.1+
1998 12 27	699	0.1+	1.9+	2000 03 29	704	0.2−	0.2−	2000 04 10	704	0.2−	0.4+
1998 12 27	699	0.2+	0.0	2000 04 04	704	0.3−	0.2−	2000 04 10	704	0.5+	0.2+
1998 12 27	699	0.3−	0.4+	2000 04 04	704	0.3−	0.4+	2000 04 10	704	0.8+	0.6−
2000 03 08	704	0.1+	0.7−	2000 04 04	704	0.0	0.8−				
2000 03 08	704	0.5+	0.3+	2000 04 04	704	0.2+	1.0−				

2000 FK₃₅ = 1995 WM₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	56.69541		(2000.0)	P	Q
<i>n</i>	0.29959558	ω	346.74531	−0.43501294	−0.89870891
<i>a</i>	2.2119694	Ω	129.01180	+0.83250658	−0.42494089
<i>e</i>	0.0825739	<i>i</i>	4.09981	+0.34306930	−0.10838603
<i>P</i>	3.29	<i>H</i>	15.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1995 11 21	691	0.2+	0.1+	1997 06 11	691	0.6+	0.5+	2000 04 04	704	0.5−	0.1−
1995 11 21	691	0.1+	0.1+	2000 03 08	704	1.0+	0.2−	2000 04 04	704	0.0	0.1+
1995 11 21	691	0.0	0.1+	2000 03 08	704	0.9+	1.5−	2000 04 04	704	0.2+	0.3+
1995 11 28	691	0.4−	0.0	2000 03 08	704	0.4−	0.0	2000 04 04	704	0.4+	0.8+
1995 11 28	691	0.1−	0.2−	2000 03 08	704	0.7−	1.6−	2000 04 08	704	0.2+	0.4+
1995 11 28	691	0.0	0.0	2000 03 29	704	0.0	0.2−	2000 04 08	704	1.1−	0.1+
1997 05 04	809	1.3−	0.9−	2000 03 29	704	0.1−	0.5−	2000 04 08	704	0.0	0.4+
1997 05 04	809	(1.7−	3.2−)	2000 03 29	704	0.6−	0.7−	2000 04 08	704	0.1−	1.2+
1997 05 04	809	(3.6−	1.8−)	2000 03 29	704	0.2+	0.5+	2000 04 08	704	0.6+	0.6+
1997 06 11	691	0.7+	0.1+	2000 03 29	704	0.2+	0.8+				
1997 06 11	691	0.1−	0.5−	2000 04 04	704	0.0	0.0				

2000 FM₃₅ = 1990 RR₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	255.88594		(2000.0)	P	Q
<i>n</i>	0.27306873	ω	142.59567	+0.53869119	+0.84136912
<i>a</i>	2.3529972	Ω	159.88383	−0.80043335	+0.52728928
<i>e</i>	0.1379663	<i>i</i>	7.30012	−0.26290352	+0.11859183
<i>P</i>	3.61	<i>H</i>	14.5	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1990 09 11	809	0.9−	0.5−	2000 03 08	704	0.3−	0.1−	2000 04 06	608	0.2−	1.8−
1990 09 11	809	0.2−	0.5−	2000 03 08	704	0.1−	0.3−	2000 04 06	608	(0.6−	2.1−)
1990 09 11	809	0.6+	0.6−	2000 03 29	704	0.5−	0.4−	2000 04 06	608	(0.3−	2.5−)
1990 09 12	809	0.1−	0.2−	2000 03 29	704	0.0	0.3−	2000 04 08	704	0.8+	0.1−
1990 09 12	809	0.4+	0.2+	2000 03 29	704	0.2+	0.5−	2000 04 08	704	1.3−	0.5−
1990 09 12	809	0.6+	0.3+	2000 03 29	704	0.0	0.1+	2000 04 08	704	0.3+	0.3+
1993 05 28	691	0.1+	0.4+	2000 03 29	704	0.2+	0.1−	2000 04 10	704	0.5+	0.4−
1993 05 28	691	0.0	0.1+	2000 04 02	699	0.2−	0.0	2000 04 10	704	0.3+	0.1+
1993 05 28	691	0.2+	0.3+	2000 04 02	699	0.3+	0.0	2000 04 10	704	0.2+	0.1+
2000 03 01	703	0.1−	0.3−	2000 04 02	699	0.2−	0.5+	2000 04 10	704	0.2+	0.0
2000 03 01	703	0.4−	0.4−	2000 04 02	699	0.1−	0.4+	2000 04 10	704	0.8+	0.2−
2000 03 01	703	(2.6−	1.6−)	2000 04 04	704	0.1−	0.3+	2000 04 13	704	0.1+	0.1+
2000 03 01	703	0.4+	0.5−	2000 04 04	704	0.0	0.2+	2000 04 13	704	0.1−	0.3−
2000 03 08	704	0.8+	0.7+	2000 04 04	704	1.2−	0.8+	2000 04 13	704	1.0−	0.0
2000 03 08	704	0.4+	0.1+	2000 04 04	704	0.6+	0.1−	2000 04 13	704	0.4−	0.2+
2000 03 08	704	0.4−	0.3−	2000 04 04	704	0.1−	0.1+	2000 04 13	704	0.1+	0.7+

2000 FR₃₅ = 1992 JB₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	286.52996		(2000.0)	P	Q
<i>n</i>	0.24077639	ω	202.92168	+0.04542411	+0.99539662
<i>a</i>	2.5589401	Ω	69.76678	−0.90203701	+0.07717166
<i>e</i>	0.1414888	<i>i</i>	5.16035	−0.42926202	−0.05683402
<i>P</i>	4.09	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1992 04 29	691	1.4−	0.3+	2000 03 29	704	0.1−	0.2+	2000 04 06	608	0.1+	1.3−
1992 04 29	691	1.4+	0.3−	2000 03 29	704	0.3−	0.5+	2000 04 06	608	0.3−	1.4−
1992 05 03	691	0.8+	0.4+	2000 03 29	704	0.2−	0.6+	2000 04 06	608	0.2+	0.9−
1992 05 03	691	0.3+	0.5+	2000 03 29	704	0.0	0.5+	2000 04 13	704	0.3−	0.3−
1992 05 03	691	0.4+	0.2+	2000 03 29	704	0.7−	0.2+	2000 04 13	704	0.4+	0.1−
1992 05 04	691	0.5+	0.4−	2000 04 04	704	(0.2+	2.1+)	2000 04 13	704	0.4−	0.1−
1992 05 04	691	0.2+	0.2+	2000 04 04	704	0.5+	1.2+	2000 04 13	704	0.6−	1.3+
1992 05 04	691	0.7+	0.0	2000 04 04	704	0.2−	0.6−	2000 04 13	704	1.2+	0.4−
1992 05 09	691	1.4−	0.3−	2000 04 04	704	0.4+	0.1+				
1992 05 09	691	1.4−	0.3−	2000 04 04	704	0.3+	0.3+				

2000 FS₃₅ = 1993 FN₅₆ = 1998 SC₁₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	91.31661		(2000.0)	P	Q
<i>n</i>	0.28200885	ω	285.42201	+0.20473848	−0.97710242
<i>a</i>	2.3030015	Ω	152.55763	+0.93932446	+0.17949924
<i>e</i>	0.1232353	<i>i</i>	7.21813	+0.27523030	+0.11424048
<i>P</i>	3.49	<i>H</i>	15.2	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1993 03 17	809	0.3−	0.4−	1998 09 27	704	0.4+	0.1−	2000 04 04	704	0.6+	1.2−
1993 03 18	809	0.1+	0.0	2000 03 29	704	0.5+	0.3+	2000 04 04	704	0.9+	0.4−
1998 09 26	704	1.0−	1.6−	2000 03 29	704	0.8+	0.0	2000 04 04	704	0.4−	0.6−
1998 09 26	704	0.8+	0.5+	2000 03 29	704	0.1+	0.4+	2000 04 08	704	0.0	0.6−
1998 09 26	704	0.5−	0.2−	2000 03 29	704	0.3+	0.4+	2000 04 08	704	0.1+	0.6−
1998 09 26	704	0.4+	0.5+	2000 03 29	704	0.1−	0.5+	2000 04 08	704	0.1−	0.4+
1998 09 27	704	0.3−	0.6+	2000 04 02	699	0.9−	0.3−	2000 04 08	704	0.3−	0.8+
1998 09 27	704	0.4+	0.5+	2000 04 02	699	0.3−	0.3+	2000 04 08	704	0.2−	0.7+
1998 09 27	704	0.4−	0.5−	2000 04 02	699	0.8−	0.0				
1998 09 27	704	0.1+	0.2+	2000 04 02	699	0.1+	0.2+				

2000 FW₃₅ = 1999 BZ₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	188.80839		(2000.0)	P	Q
<i>n</i>	0.26671541	ω	257.34985	+0.97099405	+0.04382255
<i>a</i>	2.3902169	Ω	99.78121	+0.04226407	+0.93612496
<i>e</i>	0.2698284	<i>i</i>	13.79925	−0.23533870	+0.34892641
<i>P</i>	3.70	<i>H</i>	13.4	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1999 01 16	704	0.0	0.6−	2000 03 11	703	0.6+	0.3−	2000 04 04	704	0.5−	0.1+
1999 01 16	704	1.2−	1.2+	2000 03 11	703	0.2−	0.9−	2000 04 04	704	0.3+	0.3+
1999 01 16	704	0.8+	1.7+	2000 03 11	703	0.8−	0.6−	2000 04 08	704	0.1+	0.8−
1999 01 16	704	0.3−	1.3+	2000 03 11	703	0.3−	0.1+	2000 04 08	704	0.2−	1.1+
1999 01 19	704	0.1+	0.9−	2000 03 29	704	0.3−	0.6−	2000 04 08	704	0.2−	0.2+
1999 01 19	704	0.2+	0.5−	2000 03 29	704	0.2−	0.3−	2000 04 08	704	0.3+	0.3+
1999 01 19	704	0.1+	0.7−	2000 03 29	704	0.5+	0.3−	2000 04 08	704	1.6−	0.6+
1999 01 19	704	0.3+	0.5−	2000 03 29	704	0.2−	0.7+	2000 04 10	608	0.3+	0.4−
1999 01 19	704	0.0	1.2−	2000 03 29	704	1.8+	0.7+	2000 04 10	608	0.0	0.5−
2000 02 04	704	0.4−	0.7+	2000 04 04	704	0.2−	0.3−	2000 04 10	608	0.2+	0.3−
2000 02 04	704	0.1−	0.6+	2000 04 04	704	0.1+	0.0				
2000 02 04	704	1.2+	0.0	2000 04 04	704	0.0	0.2+				

2000 FX₃₅ = 1983 KB = 1991 AZ

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	350.67701		(2000.0)	P		Q	
<i>n</i>	0.22904099	ω	117.00958	−0.96433914	+0.17077132		
<i>a</i>	2.6456186	Ω	73.39338	−0.24570883	−0.86160179		
<i>e</i>	0.2531626	<i>i</i>	12.18137	+0.09837274	−0.47799531		
<i>P</i>	4.30	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1983 05 14	095	(5.6+ 11.5+)	2000 02 04	704	0.3−	0.1+	2000 04 04	704	0.0	0.1−
1983 05 17	046	0.4−	2000 02 04	704	0.1+	0.1+	2000 04 04	704	0.2+	0.1+
1983 05 17	046	0.5+	2000 02 04	704	0.7+	0.2−	2000 04 04	704	0.0	0.3−
1991 01 13	675	0.9+	2000 03 15	704	0.2−	0.1−	2000 04 04	704	0.6+	0.1+
1991 01 13	675	0.6+	2000 03 15	704	0.4−	0.2+	2000 04 08	704	0.2+	0.1+
1991 01 14	675	1.0−	2000 03 15	704	0.1−	0.3+	2000 04 08	704	0.1+	0.1−
1991 01 14	675	0.5−	2000 03 15	704	0.1−	0.4+	2000 04 08	704	0.1−	0.0
2000 01 07	704	0.1−	2000 03 15	704	0.3−	0.5+	2000 04 08	704	0.0	0.1+
2000 01 07	704	0.3−	2000 03 29	704	0.2+	0.3−	2000 04 08	704	0.2+	0.8+
2000 01 07	704	0.2−	2000 03 29	704	0.2+	0.3−	2000 04 14	704	0.1−	0.1−
2000 01 07	704	0.8−	2000 03 29	704	0.3+	0.3−	2000 04 14	704	0.4−	0.4+
2000 01 07	704	0.1+	2000 03 29	704	0.3+	0.2−	2000 04 14	704	0.0	0.0
2000 02 04	704	0.0	2000 03 29	704	0.2+	0.1+	2000 04 14	704	0.3−	0.0
2000 02 04	704	0.2+	2000 04 04	704	0.3+	0.1+	2000 04 14	704	0.7−	0.1−

2000 FY₃₅ = 1996 KG₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	284.70067		(2000.0)	P		Q	
<i>n</i>	0.22969135	ω	185.00503	−0.11502948	+0.96165821		
<i>a</i>	2.6406223	Ω	78.55138	−0.90234987	+0.00364236		
<i>e</i>	0.0801796	<i>i</i>	14.71525	−0.41537084	−0.27422658		
<i>P</i>	4.29	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 05 22	599	0.1−	1.1+	2000 02 04	704	1.3+	0.7−	2000 03 29	704	0.6+	0.5−
1996 05 22	599	0.5−	0.5−	2000 02 04	704	0.6−	0.7+	2000 04 04	704	0.1+	0.8−
1996 05 23	599	0.3−	0.6−	2000 03 15	704	0.2−	0.3+	2000 04 04	704	0.0	1.1−
1996 05 23	599	0.4+	0.7−	2000 03 15	704	0.1+	0.5+	2000 04 04	704	0.3−	0.3+
1999 01 16	704	0.2−	1.0−	2000 03 15	704	0.2+	0.7+	2000 04 04	704	0.1+	0.3+
1999 01 16	704	0.8−	0.5+	2000 03 15	704	0.2+	0.4+	2000 04 08	704	0.1−	0.3+
1999 01 16	704	1.3+	0.3−	2000 03 15	704	0.1−	0.6+	2000 04 08	704	0.1−	0.0
1999 01 16	704	(3.8− 0.9−)		2000 03 29	704	0.6−	0.1+	2000 04 08	704	0.4−	0.3−
2000 02 04	704	1.3+	0.4−	2000 03 29	704	0.1+	0.5−	2000 04 08	704	0.5−	0.1+
2000 02 04	704	0.9−	0.4+	2000 03 29	704	0.1+	0.5+	2000 04 08	704	0.0	0.2+
2000 02 04	704	0.1+	0.5−	2000 03 29	704	0.3+	0.1−				

2000 FZ₃₅ = 1991 TG₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	35.16635		(2000.0)	P		Q	
<i>n</i>	0.25323112	ω	34.94677	−0.68288790	−0.69698241		
<i>a</i>	2.4743322	Ω	99.23654	+0.60952562	−0.70872313		
<i>e</i>	0.1227232	<i>i</i>	12.80823	+0.40266938	−0.10921104		
<i>P</i>	3.89	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 10 14	691	0.4−	0.1−	2000 03 05	704	0.5+	0.7+	2000 04 04	704	0.0	0.0
1991 10 14	691	0.2+	0.1+	2000 03 15	704	0.5−	1.4−	2000 04 04	704	0.1−	0.2−
1991 10 14	691	1.4−	0.8+	2000 03 15	704	0.5−	0.8−	2000 04 04	704	0.1+	0.0
1991 10 15	691	1.6+	0.5−	2000 03 15	704	0.5−	1.5−	2000 04 04	704	0.2+	0.0
1991 10 15	691	0.0	0.3+	2000 03 15	704	0.8−	1.9−	2000 04 08	704	0.2+	0.1+
1998 11 13	704	(2.9− 1.9+)		2000 03 15	704	1.4−	0.5−	2000 04 08	704	0.4+	0.1−
1998 11 13	704	(0.3+ 3.1+)		2000 03 27	699	0.6+	0.9+	2000 04 08	704	0.4+	0.0
1998 11 13	704	0.6−	0.2+	2000 03 27	699	0.2+	0.9+	2000 04 08	704	0.1+	0.3−
1998 11 13	704	0.6+	0.4−	2000 03 27	699	0.1−	1.0+	2000 04 08	704	0.6+	0.3+
2000 02 04	704	0.1+	0.0	2000 03 27	699	0.5−	0.4+	2000 04 14	704	0.0	0.4−
2000 02 04	704	0.3+	0.8+	2000 03 29	704	0.2+	0.0	2000 04 14	704	0.3+	0.1−

2000 02 04	704	0.6+	0.2−	2000 03 29	704	0.4+	0.1−	2000 04 14	704	0.2−	0.1−
2000 02 04	704	0.4−	0.2+	2000 03 29	704	0.3+	0.2+	2000 04 14	704	0.1−	0.6+
2000 02 04	704	0.4−	0.3−	2000 03 29	704	0.2+	0.3+	2000 04 14	704	0.1+	0.2−
2000 03 05	704	0.2−	0.4+	2000 03 29	704	0.1+	0.4+				
2000 03 05	704	0.1+	0.7+	2000 04 04	704	0.2−	0.3+				

2000 FA₃₆ = 1998 XX₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	288.41901		(2000.0)	P		Q	
<i>n</i>	0.27276187	ω	150.09783	−0.06437911	+0.97870542		
<i>a</i>	2.3547616	Ω	115.60065	−0.95308524	−0.00241148		
<i>e</i>	0.1282450	<i>i</i>	12.48189	−0.29577670	−0.20525564		
<i>P</i>	3.61	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1998 12 15	704	0.7+	0.4+	2000 03 05	704	0.0	0.5+	2000 04 04	704	1.5−	0.0
1998 12 15	704	0.4+	1.6−	2000 03 11	703	(2.7− 0.4+)		2000 04 04	704	0.3+	0.2+
1998 12 15	704	0.6+	0.4+	2000 03 11	703	(0.4− 2.4−)		2000 04 04	704	0.5+	0.1+
1998 12 22	704	0.4−	0.1+	2000 03 11	703	0.0	0.2−	2000 04 04	704	0.2+	0.5+
1998 12 22	704	0.2−	0.5+	2000 03 11	703	0.4−	0.3+	2000 04 04	704	0.3+	0.4+
1998 12 22	704	0.1+	0.7−	2000 03 15	704	0.1+	0.2+	2000 04 08	704	0.1−	0.1+
1998 12 22	704	1.4−	1.4+	2000 03 15	704	0.0	0.6+	2000 04 08	704	0.3−	0.3+
2000 01 08	704	0.4+	0.3−	2000 03 15	704	0.1+	0.7+	2000 04 08	704	0.2−	0.4+
2000 01 08	704	0.1+	0.5−	2000 03 15	704	0.4+	0.7+	2000 04 08	704	0.0	0.4+
2000 01 08	704	0.5+	0.9−	2000 03 15	704	0.2+	1.1+	2000 04 08	704	0.1+	0.5+
2000 01 08	704	0.3+	0.7−	2000 03 27	699	0.4−	0.1−	2000 04 09	608	0.2+	1.2−
2000 01 08	704	0.8−	1.4−	2000 03 27	699	0.4−	0.1+	2000 04 09	608	0.5+	1.6−
2000 02 04	704	0.1+	0.3+	2000 03 27	699	0.4−	0.1−	2000 04 09	608	0.0	1.2−
2000 02 04	704	0.6−	0.6+	2000 03 27	699	0.4−	0.0	2000 04 14	704	0.0	0.3−
2000 02 04	704	0.1−	0.2−	2000 03 29	704	0.2+	0.5−	2000 04 14	704	0.1−	0.2−
2000 02 04	704	0.0	0.5−	2000 03 29	704	0.4+	0.3−	2000 04 14	704	0.0	0.3+
2000 02 04	704	0.3−	0.0	2000 03 29	704	0.2+	0.2−	2000 04 14	704	1.0+	0.1+
2000 03 05	704	0.2+	0.5+	2000 03 29	704	0.1−	0.2+	2000 04 14	704	0.3−	0.3−
2000 03 05	704	0.0	0.1+	2000 03 29	704	0.2+	0.1+				

2000 FA₃₇ = 1989 CR₆ = 1997 WL₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	315.29219		(2000.0)	P		Q	
<i>n</i>	0.18036693	ω	148.60747	−0.42472726	+0.90371536		
<i>a</i>	3.1024022	Ω	96.21092	−0.84144611	−0.37209302		
<i>e</i>	0.1473663	<i>i</i>	3.10805	−0.33402873	−0.21176719		
<i>P</i>	5.46	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1989 02 04	033	0.3+	0.5−	2000 03 27	699	0.1−	0.6−	2000 04 06	699	0.4−	0.1+
1989 02 04	033	0.4−	0.2+	2000 03 27	699	0.8−	0.2−	2000 04 06	699	0.6−	0.5+
1997 11 23	691	0.8−	0.3+	2000 03 27	699	0.6−	0.0	2000 04 06	699	0.5−	0.3+
1997 11 23	691	0.3−	0.4+	2000 03 29	704	0.1+	0.7−	2000 04 06	699	0.1−	0.3+
1997 11 23	691	0.2−	0.5+	2000 03 29	704	0.1−	0.4−	2000 04 08	704	0.0	0.2+
1997 11 29	691	0.4+	0.5−	2000 03 29	704	0.2−	0.8−	2000 04 08	704	0.1+	0.3−
1997 11 29	691	0.4+	0.1−	2000 03 29	704	0.3−	0.5−	2000 04 08	704	0.6+	0.0
1997 11 29	691	1.0+	0.2−	2000 03 29	704	0.5−	0.7−	2000 04 08	704	0.4−	0.1+
1997 12 06	691	0.1−	0.4−	2000 04 02	699	0.2+	0.3−	2000 04 08	704	0.9+	0.4+
1997 12 06	691	0.3−	0.1+	2000 04 02	699	0.1−	0.2−	2000 04 08	704	0.2−	0.5+
1997 12 06	691	0.2−	0.1+	2000 04 02	699	0.6−	0.0	2000 04 08	704	0.6+	0.6−
2000 03 01	703	0.1+	0.3−	2000 04 02	699	0.5−	0.2−	2000 04 08	704	0.3−	0.8+
2000 03 01	703	0.4−	0.2+	2000 04 03	699	0.4−	0.3−	2000 04 08	704	0.1+	0.4+
2000 03 01	703	0.8+	0.1−	2000 04 03	699	0.6−	0.1+	2000 04 08	704	0.1−	0.8+
2000 03 01	703	0.1+	0.4+	2000 04 03	699	0.1−	0.2−	2000 04 10	704	0.0	0.1−
2000 03 08	704	0.4+	0.1+	2000 04 03	699	0.7−	0.1+	2000 04 10	704	0.3+	0.1−
2000 03 08	704	0.0	0.1+	2000 04 04	704	(1.3+	2.5−)	2000 04 10	704	0.4+	0.3+
2000 03 08	704	0.7+	0.9+	2000 04 04	704	1.4+	0.9−	2000 04 10	704	0.1−	0.0
2000 03 08	704	0.4−	0.1+	2000 04 04	704	1.0+	0.8−	2000 04 10	704	0.5+	0.6+
2000 03 08	704	0.7−	0.7+	2000 04 04	704	0.6+	0.9+				
2000 03 27	699	(6.1+	5.6+)	2000 04 04	704	1.2+	0.4−				

2000 APR. 18

M.P.C. 40245

2000 FB₃₇ = 1969 VC₃ = 1996 DU₃ = 1998 UV₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	93.08792		(2000.0)	P	Q		
n	0.27219310	ω	287.52935	+0.09072078	-0.99515530		
a	2.3580407	Ω	157.16385	+0.94672934	+0.07437649		
e	0.0632350	i	5.60274	+0.30898753	+0.06429664		
P	3.62	H	14.5	G	0.15	U	1

Residuals in seconds of arc

1969 11 04	805	0.2+	1.0+	1998 10 19	809	1.6+	0.3-	2000 04 02	699	0.3-	0.2-
1993 06 12	691	0.8-	0.4+	1998 10 19	809	1.4+	0.3-	2000 04 02	699	0.5-	0.0
1993 06 12	691	0.6-	0.2+	1998 10 19	809	1.2+	1.2-	2000 04 04	704	0.6+	0.5+
1993 06 12	691	0.6-	0.5+	1998 11 10	704	1.3-	0.6-	2000 04 04	704	0.1-	0.2-
1996 02 16	010	(0.7+	2.1+)	1998 11 10	704	1.1-	0.1+	2000 04 04	704	0.3+	0.0
1996 02 16	010	0.8+	1.8+	1998 11 10	704	0.5-	1.0+	2000 04 04	704	0.3+	0.4+
1996 02 16	010	2.0+	1.3+	1998 11 10	704	1.0-	0.6-	2000 04 04	704	0.1+	0.3+
1996 02 17	010	0.4-	1.1+	1998 11 10	704	0.9-	0.1+	2000 04 06	699	1.0+	1.3+
1996 02 17	010	0.4+	0.8+	1998 12 11	699	0.6+	0.5-	2000 04 06	699	0.4+	0.1-
1996 02 17	010	1.7+	0.6+	1998 12 11	699	1.0-	0.4-	2000 04 06	699	0.1+	0.1+
1996 02 17	691	1.1-	0.7-	1998 12 11	699	1.1-	0.5-	2000 04 06	699	0.0	0.3-
1996 02 17	691	0.7-	1.3-	2000 03 08	704	1.2-	0.2-	2000 04 08	704	0.3+	0.2+
1996 02 17	691	1.3-	1.2-	2000 03 08	704	(1.0-	2.1-)	2000 04 08	704	0.2+	0.9+
1996 03 15	566	0.7-	0.9-	2000 03 08	704	0.3-	0.7-	2000 04 08	704	0.7+	0.6+
1996 03 15	566	1.0-	0.7-	2000 03 08	704	0.5-	0.8-	2000 04 08	704	0.3-	0.1-
1996 03 15	566	1.0-	0.7-	2000 03 29	704	0.6+	0.5-	2000 04 08	704	0.1+	0.4-
1998 10 14	699	0.3-	0.3+	2000 03 29	704	0.1-	0.0	2000 04 10	704	0.2+	0.2-
1998 10 14	699	0.6-	0.8+	2000 03 29	704	0.3+	0.2-	2000 04 10	704	0.1+	0.5+
1998 10 14	699	0.1-	0.1+	2000 03 29	704	0.4+	0.5-	2000 04 10	704	0.1+	0.3+
1998 10 18	809	1.8+	1.1+	2000 03 29	704	0.1-	0.9-	2000 04 10	704	0.5+	0.2-
1998 10 18	809	1.2+	0.6+	2000 04 02	699	0.3-	0.0	2000 04 10	704	0.6+	0.6+
1998 10 18	809	(2.2+	1.2+)	2000 04 02	699	0.3-	0.2-				

2000 FD₃₇ = 1998 XL₅₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	90.55173		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.21581490	ω	312.98049	+0.00942222	-0.99857514
a	2.7526337	Ω	136.39568	+0.93817913	-0.00934863
e	0.0667900	i	4.36786	+0.34602187	+0.05253853
P	4.57	H	14.1	G 0.15	U 4

Residuals in seconds of arc

1995 02 02	691	0.1+	0.2-	2000 03 08	704	1.1-	0.4+	2000 04 04	704	0.3+	0.7+
1995 02 02	691	0.2+	0.2-	2000 03 08	704	0.2-	0.5-	2000 04 04	704	0.4+	0.2-
1995 02 02	691	0.2-	0.9+	2000 03 08	704	0.3-	0.0	2000 04 06	699	0.4+	0.1-
1998 12 15	704	0.2-	1.4-	2000 03 08	704	1.2+	0.6-	2000 04 06	699	0.0	0.1+
1998 12 15	704	0.6-	1.1-	2000 03 08	704	0.2-	0.1+	2000 04 06	699	0.8-	0.0
1998 12 15	704	0.6+	0.1+	2000 03 29	704	0.5-	0.2-	2000 04 06	699	0.2-	0.3-
1998 12 15	704	0.9+	0.1+	2000 03 29	704	0.3-	0.3+	2000 04 08	704	0.1+	0.0
1998 12 16	704	0.1-	0.4-	2000 03 29	704	0.3+	0.2+	2000 04 08	704	0.6+	0.0
1998 12 16	704	0.6+	0.1-	2000 03 29	704	0.1+	0.4+	2000 04 08	704	0.3-	0.7+
1998 12 16	704	0.8+	0.1+	2000 03 29	704	0.1-	0.9+	2000 04 08	704	0.2-	0.4+
1998 12 16	704	0.8+	1.4+	2000 03 30	691	0.9-	1.2-	2000 04 08	704	0.1+	1.3+
1998 12 22	704	1.1-	0.4-	2000 03 30	691	1.0-	1.0-	2000 04 10	704	0.2+	0.6+
1998 12 22	704	1.2-	0.6+	2000 03 30	691	0.8-	1.2-	2000 04 10	704	0.9+	0.5-
1998 12 22	704	(2.3+	1.7+)	2000 04 04	704	0.4+	0.1-	2000 04 10	704	0.2+	0.0
1998 12 22	704	0.5-	0.9+	2000 04 04	704	0.7+	0.1-	2000 04 10	704	0.7+	0.4-

2000 FF₃₇ = 1998 XN₄₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	314.32113		(2000.0)	P	Q
n	0.23978775	ω	170.04343	-0.48075264	+0.87448087
a	2.5659689	Ω	71.19714	-0.80911335	-0.41405969
e	0.1168754	i	3.90687	-0.33795338	-0.25266139
P	4.11	H	14.7	G 0.15	U 4

Residuals in seconds of arc

1996 04 17	691	0.0	0.5-	2000 03 08	704	1.1+	0.2-	2000 04 06	699	0.2-	0.0
1996 04 17	691	0.0	0.1+	2000 03 08	704	0.3-	0.0	2000 04 06	699	0.1-	0.0
1996 04 17	691	0.1-	0.2+	2000 03 08	704	0.1-	0.3+	2000 04 06	699	0.0	0.3+
1998 12 14	704	0.1-	0.9-	2000 03 29	704	0.7+	0.2-	2000 04 08	704	0.5+	0.1+
1998 12 14	704	0.0	1.7-	2000 03 29	704	0.6+	0.0	2000 04 08	704	0.4+	0.0
1998 12 14	704	1.7-	0.2+	2000 03 29	704	0.5-	0.0	2000 04 08	704	0.1-	0.6-
1998 12 17	704	0.7+	0.7+	2000 03 29	704	0.2+	0.1+	2000 04 08	704	0.3+	0.3+
1998 12 17	704	0.7+	1.5+	2000 03 29	704	0.2+	0.1-	2000 04 08	704	0.3-	0.5+
1998 12 17	704	0.5-	0.9+	2000 03 30	691	1.2-	0.8-	2000 04 10	704	0.1-	0.7+
1998 12 17	704	1.0+	0.7-	2000 03 30	691	1.2-	0.8-	2000 04 10	704	0.6+	1.2+
2000 03 01	703	0.1-	0.1-	2000 03 30	691	1.2-	0.7-	2000 04 10	704	0.5+	0.1+
2000 03 01	703	1.2-	0.3-	2000 04 04	704	1.0+	1.1+	2000 04 10	704	0.0	0.5+
2000 03 01	703	0.5-	0.0	2000 04 04	704	0.6+	0.7-	2000 04 10	704	0.7+	1.0+
2000 03 01	703	0.2-	0.0	2000 04 04	704	0.7-	0.2+	2000 04 10	608	0.6-	0.9-
2000 03 08	704	1.3+	0.6-	2000 04 04	704	0.0	0.4+	2000 04 10	608	0.3-	0.9-
2000 03 08	704	0.8+	0.4+	2000 04 06	699	0.3-	0.2+	2000 04 10	608	0.3-	0.9-

2000 FH₃₇ = 1991 RD₃₁ = 1995 LR

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	113.58098		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17160774	ω	254.55570	+0.47065662	-0.88136717
a	3.2070923	Ω	167.12985	+0.86347383	+0.45057680
e	0.1629555	i	10.58531	+0.18137058	+0.14202976
P	5.74	H	13.4	G 0.15	U 4

Residuals in seconds of arc

1991 09 09	691	0.1+	1.1+	1995 06 05	691	0.2-	0.3-	2000 04 04	704	0.1-	0.6-
1991 09 09	691	0.0	0.9+	1995 06 05	691	0.1-	0.3-	2000 04 04	704	0.1-	0.2+
1991 09 09	691	0.3+	1.2+	2000 03 08	704	1.2+	1.0-	2000 04 06	699	0.8-	0.1+
1991 09 11	675	0.5+	1.3-	2000 03 08	704	1.2+	0.6-	2000 04 06	699	0.2-	0.6+
1991 09 11	675	1.1-	1.0-	2000 03 08	704	0.2-	0.3-	2000 04 06	699	0.1+	0.2+
1995 06 04	691	0.2+	0.1+	2000 03 08	704	0.0	0.6-	2000 04 06	699	0.2+	0.1+
1995 06 04	691	0.0	0.0	2000 03 29	704	0.2-	0.4+	2000 04 08	704	0.1+	0.5-
1995 06 04	691	0.2-	0.0	2000 03 29	704	0.4+	0.3-	2000 04 08	704	0.1-	0.8+
1995 06 05	691	0.0	0.1-	2000 03 29	704	0.4-	1.1+	2000 04 08	704	0.2-	0.3-
1995 06 05	691	0.3+	0.2+	2000 03 29	704	0.4+	0.8+	2000 04 08	704	0.4-	0.4+
1995 06 05	691	0.1-	0.0	2000 04 04	704	0.6-	0.6+				
1995 06 05	691	0.0	0.5-	2000 04 04	704	0.3+	0.1+				

2000 FK₃₇ = 1998 QA₉₂ = 1998 VU₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	138.04367		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.28732070	ω	321.52932	+0.80497280	-0.58591995		
a	2.2745288	Ω	74.58993	+0.56550441	+0.71007708		
e	0.1923406	i	5.55749	+0.17950920	+0.39049756		
P	3.43	H	14.6	G	0.15	U	4

Residuals in seconds of arc

1998 08 28	704	(2.0-	2.7+)	1998 11 10	704	0.5-	1.0+	2000 03 29	704	0.8+	0.0
1998 08 28	704	0.2+	1.0+	1998 11 11	704	0.1-	0.7+	2000 03 29	704	1.0+	0.0
1998 08 28	704	1.9-	0.3-	1998 11 11	704	0.3+	0.2-	2000 03 29	704	0.2+	0.4+
1998 08 28	704	1.5-	0.7-	1998 11 11	704	0.4-	0.0	2000 04 04	704	0.4-	0.4-
1998 08 31	704	(2.4+	1.9-)	1998 11 11	704	0.1+	0.5-	2000 04 04	704	0.4+	0.6-
1998 08 31	704	0.6+	1.7+	1998 11 11	704	0.0	0.6-	2000 04 04	704	0.0	0.0
1998 08 31	704	0.1+	0.8+	2000 03 27	699	0.1+	0.9-	2000 04 04	704	0.2-	0.4-
1998 08 31	704	0.1-	0.2-	2000 03 27	699	0.1+	0.8+	2000 04 04	704	0.2-	0.5+
1998 08 31	704	1.6+	1.2-	2000 03 27	699	0.1-	0.8-	2000 04 08	704	0.2-	0.6+
1998 11 10	704	0.5+	0.2+	2000 03 27	699	0.3-	0.5+	2000 04 08	704	0.2+	0.4

2000 FA₃₈ = 1996 KO₃ = 1998 SM₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	44.05609		(2000.0)	P		Q	
<i>n</i>	0.23378811	ω	34.47793	−0.38799892		−0.91587622	
<i>a</i>	2.6096831	Ω	78.54358	+0.82015431		−0.39413021	
<i>e</i>	0.2676704	<i>i</i>	6.03788	+0.42048038		−0.07636834	
<i>P</i>	4.22	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 05 17	691	0.2+	0.1−	1998 09 20	910	0.2−	0.1−	2000 04 04	704	0.6−	0.2−
1996 05 17	691	(2.5+	1.1+)	2000 03 29	704	0.4−	0.5−	2000 04 04	704	0.4−	0.6−
1996 05 17	691	0.1+	0.1−	2000 03 29	704	0.4−	0.4+	2000 04 04	704	0.3−	0.3+
1996 05 23	691	0.2−	0.2+	2000 03 29	704	0.3−	0.3+	2000 04 04	704	0.4−	0.6+
1996 05 23	691	0.1−	0.2+	2000 03 29	704	0.4−	0.3+	2000 04 08	704	0.1−	0.2−
1996 05 23	691	0.1−	0.1−	2000 03 29	704	0.1−	0.6+	2000 04 08	704	0.2+	0.3−
1998 09 17	910	0.1+	0.3+	2000 04 02	699	(2.7+	0.2+)	2000 04 08	704	0.9−	0.9+
1998 09 18	910	0.2+	0.1−	2000 04 02	699	1.1+	0.2−	2000 04 08	704	0.2+	0.7−
1998 09 18	910	0.5+	0.1+	2000 04 02	699	0.9+	0.1+	2000 04 08	704	1.4+	0.3−
1998 09 19	910	0.2−	0.0	2000 04 02	699	0.4+	0.3−				
1998 09 19	910	0.3−	0.1−	2000 04 04	704	0.0	0.2−				

2000 FF₃₈ = 1993 UU₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	84.43419		(2000.0)	P		Q	
<i>n</i>	0.22032223	ω	11.68217	−0.19233848		−0.97640503	
<i>a</i>	2.7149625	Ω	89.46424	+0.89225867		−0.21565137	
<i>e</i>	0.0200422	<i>i</i>	5.63457	+0.40850995		+0.01130094	
<i>P</i>	4.47	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 10 10	809	(3.1+	0.6−)	2000 03 29	704	0.3+	0.1+	2000 04 04	704	0.3+	0.6+
1993 10 10	809	1.6+	0.5+	2000 03 29	704	0.1−	0.3−	2000 04 08	704	0.5+	0.2+
1993 10 10	809	0.7−	0.1+	2000 03 29	704	1.6+	0.9−	2000 04 08	704	0.2−	0.3+
1993 10 20	809	1.1−	1.2−	2000 04 02	699	0.6−	0.0	2000 04 08	704	0.0	0.4+
1993 10 20	809	1.2−	1.6−	2000 04 02	699	0.5−	0.1+	2000 04 08	704	0.6−	0.0
1993 10 20	809	1.3−	1.3−	2000 04 02	699	0.6−	0.1−	2000 04 08	704	0.3+	0.2+
1993 10 21	809	0.3+	1.1+	2000 04 02	699	1.1−	0.7+	2000 04 10	608	0.1+	1.3−
1993 10 21	809	1.0+	1.1+	2000 04 04	704	0.8−	0.5+	2000 04 10	608	1.4+	1.9−
1993 10 21	809	1.4+	1.3+	2000 04 04	704	0.7−	1.3+	2000 04 10	608	(1.5+	2.6−)
2000 03 29	704	0.7−	0.3−	2000 04 04	704	1.0+	0.6+				
2000 03 29	704	0.1−	0.8−	2000 04 04	704	0.7+	0.7+				

2000 FK₃₈ = 1991 RH₂₁ = 1994 CQ₁₉ = 1997 YA₂₀ = 1999 CY₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	215.35838		(2000.0)	P		Q	
<i>n</i>	0.18438097	ω	265.36972	+0.97085762		+0.23184656	
<i>a</i>	3.0572104	Ω	81.21560	−0.18824377		+0.89444303	
<i>e</i>	0.1961301	<i>i</i>	3.52047	−0.14832320		+0.38238571	
<i>P</i>	5.35	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 09 14	675	0.2+	0.2+	1999 02 10	704	0.2+	0.6−	2000 04 02	699	0.1+	0.5+
1991 09 14	675	0.3+	0.2−	1999 02 10	704	0.9−	1.4−	2000 04 02	699	0.4+	0.6−
1991 09 16	675	0.1+	0.4+	1999 02 10	704	0.4+	0.4−	2000 04 03	699	0.6−	0.3−
1991 09 16	675	0.0	0.3+	1999 02 13	704	0.3+	0.2+	2000 04 03	699	0.2−	0.1−
1994 02 08	809	1.0+	1.7+	1999 02 13	704	1.0+	1.1−	2000 04 03	699	0.6−	0.2−
1994 02 08	809	1.1−	1.8+	1999 02 13	704	1.6+	0.7−	2000 04 03	699	0.4−	1.2−
1994 02 08	809	1.5−	1.9+	1999 02 13	704	1.3+	0.7−	2000 04 04	704	(0.3−	2.3+)
1994 02 13	809	0.6+	0.2−	2000 03 08	704	0.4+	0.6+	2000 04 04	704	1.6+	0.9+
1994 02 13	809	0.5+	0.1+	2000 03 08	704	0.0	0.2−	2000 04 04	704	1.0−	1.9+
1994 02 13	809	0.3−	0.1−	2000 03 08	704	0.8−	0.6−	2000 04 04	704	0.9+	0.3+
1997 12 31	704	0.3−	0.6+	2000 03 08	704	0.4+	0.4−	2000 04 08	704	0.1−	0.1+
1997 12 31	704	0.8−	0.1+	2000 03 29	704	0.3−	0.5−	2000 04 08	704	0.5−	0.1−
1997 12 31	704	0.4−	0.4−	2000 03 29	704	0.1−	0.0	2000 04 08	704	0.4−	0.9−
1997 12 31	704	0.8−	0.2−	2000 03 29	704	0.8−	0.1+	2000 04 08	704	0.1−	0.0

1998 01 02	704	0.1−	0.3−	2000 03 29	704	0.6+	0.0	2000 04 08	704	0.2−	0.8+
1998 01 02	704	0.2−	0.0	2000 03 29	704	0.4+	0.0	2000 04 10	704	0.6+	0.4−
1998 01 02	704	0.4+	0.0	2000 04 02	699	1.2−	0.0	2000 04 10	704	0.3+	0.0
1998 01 02	704	(2.9−	0.7−)	2000 04 02	699	0.1+	0.1−	2000 04 10	704	0.3+	0.2+

2000 FM₃₈ = 1993 TX₄₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	9.57258		(2000.0)	P		Q	
<i>n</i>	0.22368896	ω	45.85602	−0.99323790		−0.10945228	
<i>a</i>	2.6876519	Ω	127.82213	+0.08752308		−0.92500924	
<i>e</i>	0.1033033	<i>i</i>	2.80911	+0.07627706		−0.36383801	
<i>P</i>	4.41	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1993 10 09	809	1.8−	0.4−	2000 03 29	704	0.2−	0.1−	2000 04 04	704	0.5+	0.2−
1993 10 09	809	0.6−	1.7−	2000 03 29	704	0.1+	0.5−	2000 04 04	704	0.5+	0.9−
1993 10 09	809	(2.7−	0.9−)	2000 03 29	704	0.0	0.1+	2000 04 06	699	0.8−	0.1−
1993 10 11	809	(1.8+	2.0+)	2000 03 29	704	0.3−	0.3+	2000 04 06	699	0.5−	0.2−
1993 10 11	809	0.9+	0.7+	2000 03 29	704	0.4+	0.1+	2000 04 06	699	0.9−	0.5−
1993 10 11	809	0.3+	0.7+	2000 04 02	699	0.2−	0.1+	2000 04 06	699	0.3−	0.0
1993 10 20	809	1.1+	0.3−	2000 04 02	699	0.5−	0.2+	2000 04 08	704	0.4+	0.2−
1993 10 20	809	0.6+	0.0	2000 04 02	699	0.3−	0.0	2000 04 08	704	0.3+	0.4+
1993 10 20	809	0.2−	0.2−	2000 04 02	699	0.4−	0.0	2000 04 08	704	0.4+	0.3+
2000 03 01	703	0.3−	1.0−	2000 04 03	699	0.1+	0.1+	2000 04 08	704	0.0	0.7+
2000 03 01	703	0.5+	1.5+	2000 04 03	699	0.1−	0.2+	2000 04 08	704	0.3+	0.3+
2000 03 01	703	0.3−	0.4+	2000 04 03	699	0.2−	0.0	2000 04 10	704	0.6+	0.3+
2000 03 01	703	0.0	0.6+	2000 04 03	699	0.2−	0.0	2000 04 10	704	0.1−	0.4−
2000 03 06	608	0.3−	0.1−	2000 04 04	704	0.5+	0.0	2000 04 10	704	0.1+	0.4−
2000 03 06	608	0.5−	0.4−	2000 04 04	704	0.8+	0.1+	2000 04 10	704	0.1+	0.3−
2000 03 06	608	0.4−	0.4−	2000 04 04	704	0.4+	0.0	2000 04 10	704	0.4+	1.0−

2000 FN₃₈ = 1998 WS₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	142.83484		(2000.0)	P		Q	
<i>n</i>	0.27394774	ω	355.38277	+0.80492629		−0.58807271	
<i>a</i>	2.3479611	Ω	40.97682	+0.54820249		+0.68595816	
<i>e</i>	0.1340959	<i>i</i>	6.93223	+0.22708521		+0.42852291	
<i>P</i>	3.60	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 21	704	0.9+	0.3−	1998 12 11	699	1.0+	0.7−	2000 04 04	704	0.2+	0.9−
1998 11 21	704	0.1+	0.9−	2000 03 08	704	0.1+	0.5+	2000 04 04	704	0.1+	0.5−
1998 11 21	704	0.0	1.3−	2000 03 08	704	0.0	0.1+	2000 04 04	704	0.1+	0.3−
1998 11 21	704	0.8+	0.0	2000 03 08	704	0.3+	0.5+	2000 04 08	704	0.1+	0.5+
1998 11 21	704	0.1+	0.7−	2000 03 29	704	0.3+	0.2+	2000 04 08	704	0.8+	0.4+
1998 11 24	704	0.2+	0.0	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.4+	1.3−
1998 11 24	704	0.2−	0.5+	2000 03 29	704	0.0	0.2+	2000 04 08	704	0.6+	1.5−
1998 11 24	704	0.5−	0.7+	2000 03 29	704	0.9−	0.6+	2000 04 10	704	0.2−	0.2−
1998 11 24	704	0.1−	0.8+	2000 03 29	704	0.4−	0.6−	2000 04 10	704	0.0	0.5−
1998 12 11	699	1.2−	1.4+	2000 04 04	704	0.9−	1.5+	2000 04 10	704	0.1+	0.4+
1998 12 11	699	1.0−	0.4+	2000 04 04	704	1.0−	0.5+	2000 04 10	704	0.2−	0.1−

2000 FQ₃₈ = 1998 XK₆₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	22.50225		(2000.0)	P	Q
n	0.22762953	ω	8.16409	−0.95773114	−0.28574065
a	2.6565438	Ω	155.15494	+0.25926057	−0.90742110
e	0.0347887	i	4.53431	+0.12463958	−0.30812211
P	4.33	H	14.7	G 0.15	U 4

2000 APR. 18

M.P.C. 40247

1998 12 15	704	(0.7− 2.6+)	2000 04 02	699	0.7+ 0.2+	2000 04 08	704	0.8− 0.8+
1998 12 15	704	(0.5− 2.3+)	2000 04 02	699	0.2− 1.0+	2000 04 08	704	0.1− 0.7−
1998 12 15	704	1.1− 0.5+	2000 04 02	699	1.2+ 0.2+	2000 04 08	704	0.3+ 0.6−
1998 12 16	704	0.6+ 0.6+	2000 04 04	704	0.4− 0.6+	2000 04 08	704	0.6− 0.7−
1998 12 16	704	1.2+ 1.0−	2000 04 04	704	0.3+ 0.8+	2000 04 10	704	0.2− 0.1−
1998 12 16	704	1.1+ 0.7−	2000 04 04	704	0.3− 0.6+	2000 04 10	704	0.0− 0.2−
1998 12 16	704	0.1+ 0.6−	2000 04 04	704	0.5− 0.5+	2000 04 10	704	0.0 0.4−
2000 03 29	704	0.2+ 0.4−	2000 04 04	704	0.2− 0.4+	2000 04 10	704	0.3− 0.6−
2000 03 29	704	0.2+ 1.0−	2000 04 06	699	0.3− 0.1−	2000 04 10	704	0.2− 0.4+

2000 FT₃₈ = 1997 WR₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	241.25402		(2000.0)	P	Q
<i>n</i>	0.18369419	<i>ω</i>	216.59779	+0.72269036	+0.68897022
<i>a</i>	3.0648256	<i>Ω</i>	99.75556	−0.62013472	+0.68156626
<i>e</i>	0.0746142	<i>i</i>	3.20640	−0.30520742	+0.24655113
<i>P</i>	5.37	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 11 28	691	0.5+ 0.1−	2000 03 29	704	0.4− 0.1−	2000 04 06	699	0.0 0.1−
1997 11 28	691	0.3+ 0.2−	2000 03 29	704	0.6+ 0.8+	2000 04 06	699	0.5− 0.1−
1997 11 28	691	0.3+ 0.3−	2000 03 29	704	0.8+ 1.9+	2000 04 06	699	0.3− 0.0
1997 12 05	691	0.0 0.4+	2000 04 02	699	1.6+ 0.1+	2000 04 06	699	0.5− 0.2+
1997 12 05	691	0.4− 0.1+	2000 04 02	699	0.2+ 0.5+	2000 04 08	704	0.1− 0.9+
1997 12 05	691	0.7− 0.1+	2000 04 02	699	0.0 0.4+	2000 04 08	704	0.3− 0.1+
2000 03 08	704	0.2+ 0.2−	2000 04 02	699	1.2+ 0.7−	2000 04 08	704	1.1+ 0.8+
2000 03 08	704	0.3− 0.7−	2000 04 04	704	0.3− 0.2−	2000 04 08	704	0.4+ 0.9−
2000 03 08	704	0.2+ 0.2+	2000 04 04	704	0.3− 0.5−	2000 04 08	704	0.1− 1.4−
2000 03 08	704	0.9− 0.0	2000 04 04	704	0.2− 0.2+	2000 04 10	704	0.3+ 0.3−
2000 03 29	704	0.3+ 0.4+	2000 04 04	704	0.1+ 0.3+	2000 04 10	704	1.3− 1.0−
2000 03 29	704	0.7− 0.3+	2000 04 04	704	0.3− 0.1+	2000 04 10	704	0.5− 0.9−

2000 FW₃₈ = 1998 WO₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	101.10506		(2000.0)	P	Q
<i>n</i>	0.24693620	<i>ω</i>	300.87971	+0.20160583	−0.97854487
<i>a</i>	2.5162061	<i>Ω</i>	137.42236	+0.91871912	+0.17388577
<i>e</i>	0.0832946	<i>i</i>	3.60020	+0.33957367	+0.11051552
<i>P</i>	3.99	<i>H</i>	14.5	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 06 22	691	0.3− 1.6+	1998 11 24	704	0.7− 0.1−	2000 04 04	704	0.1+ 0.7+
1993 06 22	691	0.0 0.8+	2000 03 09	704	0.5+ 0.1+	2000 04 04	704	1.0+ 1.0+
1993 06 22	691	0.2− 0.7+	2000 03 09	704	0.2+ 0.2−	2000 04 08	704	0.6+ 0.0
1993 07 13	809	(2.4+ 2.6−)	2000 03 09	704	0.1+ 1.0+	2000 04 08	704	0.6+ 1.0+
1993 07 13	809	(2.1+ 2.7−)	2000 03 29	704	0.6− 0.0	2000 04 08	704	0.3− 0.4−
1993 07 13	809	1.6+ 1.9−	2000 03 29	704	0.1+ 0.7−	2000 04 08	704	0.2− 0.0
1993 07 24	809	1.2− 1.2−	2000 03 29	704	0.0 0.0	2000 04 08	704	0.3− 0.9+
1996 04 24	691	0.0 0.7−	2000 03 29	704	0.4− 0.9−	2000 04 10	704	0.2− 0.1+
1996 04 24	691	0.2− 0.3−	2000 03 29	704	0.4− 0.8−	2000 04 10	704	0.4+ 0.3−
1996 04 24	691	0.3− 0.3−	2000 04 02	699	0.2− 0.8+	2000 04 10	704	0.9− 0.4−
1998 11 23	699	0.2− 0.7+	2000 04 02	699	0.4− 0.0	2000 04 10	704	0.2+ 0.7+
1998 11 23	699	0.0 0.3−	2000 04 02	699	0.2− 0.1+	2000 04 10	704	0.1− 0.1+
1998 11 23	699	0.8− 0.0	2000 04 02	699	0.4+ 0.3−	2000 04 11	608	0.9− 1.6−
1998 11 24	704	0.2+ 0.1−	2000 04 04	704	0.5+ 0.1+	2000 04 11	608	0.9− 1.4−
1998 11 24	704	0.5+ 0.7−	2000 04 04	704	1.0+ 1.0+	2000 04 11	608	(0.7− 2.6−)
1998 11 24	704	1.0+ 0.2+	2000 04 04	704	0.7+ 0.2+			

2000 FZ₃₈ = 1998 XK₈₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	308.59231		(2000.0)	P	Q
<i>n</i>	0.26824202	<i>ω</i>	100.91244	−0.23768692	+0.97056380
<i>a</i>	2.3811395	<i>Ω</i>	155.23281	−0.92349951	−0.21339503
<i>e</i>	0.2036842	<i>i</i>	5.32370	−0.30108732	−0.11166234
<i>P</i>	3.67	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1996 02 12	327	0.1− 0.1+	2000 03 01	703	0.3+ 0.7+	2000 04 04	704	0.1− 0.2−
1996 02 12	327	0.2+ 0.6−	2000 03 01	703	0.8− 0.0	2000 04 04	704	0.3− 0.2−
1996 02 12	327	0.1− 0.2−	2000 03 08	704	0.8+ 0.8−	2000 04 08	704	0.1+ 0.3+
1996 02 12	327	0.2− 0.4−	2000 03 08	704	0.4+ 0.3−	2000 04 08	704	0.2+ 0.4+
1998 12 15	704	(1.9+ 2.4−)	2000 03 08	704	0.5+ 0.3+	2000 04 08	704	0.2+ 0.9+
1998 12 15	704	(2.6+ 1.9−)	2000 03 08	704	1.0+ 0.0	2000 04 08	704	0.6+ 0.7+
1998 12 15	704	(2.9+ 1.2−)	2000 03 08	704	0.1− 0.5+	2000 04 08	704	0.8+ 0.6+
1998 12 15	704	0.8− 0.8−	2000 03 29	704	0.2− 0.2+	2000 04 10	608	0.4− 1.0−
1998 12 15	704	0.4− 0.3−	2000 03 29	704	0.0 0.0	2000 04 10	608	0.2− 1.3−
1998 12 22	704	0.7+ 0.1+	2000 03 29	704	0.1+ 0.4+	2000 04 10	608	0.3− 1.3−
1998 12 22	704	0.6− 0.3+	2000 03 29	704	0.2− 0.3+	2000 04 13	704	0.0 0.1−
1998 12 22	704	1.2+ 0.5+	2000 03 29	704	0.1+ 0.0	2000 04 13	704	0.1+ 0.0
1998 12 22	704	0.2− 0.7+	2000 04 04	704	0.0 0.3+	2000 04 13	704	0.1− 0.2−
2000 03 01	703	0.9− 0.7+	2000 04 04	704	0.5− 0.0	2000 04 13	704	0.1− 0.2−
2000 03 01	703	0.3− 0.3+	2000 04 04	704	0.4− 0.2−			

2000 FB₃₉ = 1997 TB₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	265.55281		(2000.0)	P	Q
<i>n</i>	0.26877260	<i>ω</i>	288.54642	+0.72934532	+0.67270113
<i>a</i>	2.3780048	<i>Ω</i>	29.57037	−0.49277931	+0.64289808
<i>e</i>	0.3409336	<i>i</i>	14.62634	−0.47457766	+0.36627209
<i>P</i>	3.67	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1997 10 06	809	0.1+ 0.5+	2000 03 29	704	1.0+ 0.3−	2000 04 06	699	0.2+ 0.7+
1997 10 06	809	0.2+ 0.2−	2000 03 29	704	0.3− 1.1−	2000 04 06	699	0.6− 0.4+
1997 10 07	809	0.0 0.0	2000 03 29	704	0.4− 0.4−	2000 04 06	699	0.8− 0.4−
1997 10 07	809	0.1+ 0.2−	2000 04 02	699	0.5− 0.2+	2000 04 06	699	0.2+ 1.0+
1997 10 30	704	0.3+ 0.0	2000 04 02	699	0.1− 0.6+	2000 04 10	704	0.6+ 0.3+
1997 10 30	704	0.1− 0.0	2000 04 02	699	0.7− 0.2−	2000 04 10	704	0.9+ 0.7+
1997 10 30	704	0.3− 0.4+	2000 04 02	699	0.7− 0.2+	2000 04 10	704	1.0− 0.1+
1997 10 30	704	0.2− 0.4−	2000 04 04	704	0.2+ 0.5−	2000 04 10	704	0.4− 0.5−
1997 10 30	704	0.1− 0.2−	2000 04 04	704	0.7+ 0.3−	2000 04 10	704	0.0 0.3−
2000 03 29	704	0.1− 0.2−	2000 04 04	704	0.3+ 0.1+			
2000 03 29	704	0.2− 0.6+	2000 04 04	704	0.8+ 0.4−			

2000 FD₃₉ = 1996 LZ₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	225.58091		(2000.0)	P	Q
<i>n</i>	0.23391499	<i>ω</i>	257.39288	+0.91240023	+0.40226692
<i>a</i>	2.6087393	<i>Ω</i>	78.84736	−0.33925152	+0.84651905
<i>e</i>	0.1670739	<i>i</i>	4.41614	−0.22898523	+0.34869303
<i>P</i>	4.21	<i>H</i>	14.2	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 04 18	691	0.5− 0.6−	2000 03 29	704	1.0+ 0.4−	2000 04 04	704	0.5+ 1.2−
1996 04 18	691	0.1+ 0.0	2000 03 29	704	0.5+ 0.7−	2000 04 04	704	0.4− 1.0+
1996 04 18	691	0.3+ 0.3−	2000 03 29	704	0.5+ 0.3−	2000 04 04	704	0.8− 0.5−
1996 06 08	809	1.0− 0.4+	2000 03 29	704	0.5− 1.9−	2000 04 04	704	(0.8− 2.4−)
1996 06 08	809	1.0− 0.0	2000 03 29	704	0.4+ 1.0−	2000 04 04	704	(2.1− 0.6−)
1996 06 08	809	1.1− 0.4+	2000 03 30	703	1.4+ 0.7−	2000 04 08	704	0.3− 0.5−
1996 06 10	809	1.3+ 0.0	2000 03 30	703	0.6+ 0.0	2000 04 08	704	0.2− 0.7+
1996 06 10	809	0.7+ 0.3−	2000 03 30	703	0.3+ 0.8+	2000 04 08	704	0.9− 0.9+
1996 06 10	809	1.2+ 0.3+	2000 03 30	703	0.7− 0.1+	2000 04 08	704	0.1+ 0.2+
2000 03 08	704	0.2− 0.2+	2000 04 02	699	0.2− 0.1+	2000 04 10	704	0.5− 0.8−
2000 03 08	704	0.2− 1.5+	2000 04 02	699	0.3+ 0.4+	2000 04 10	704	(2.4− 0.1+)
2000 03 08	704	0.1− 0.2+	2000 04 02	699	0.0 0.8+	2000 04 10	704	(3.7− 1.3+)
2000 03 08	704	0.2+ 0.8+	2000 04 02	699	0.8− 0.8+			

M.P.C. 40248

2000 APR. 18

2000 FF₃₉ = 1997 LX₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	264.65238		(2000.0)		P		Q	
<i>n</i>	0.30519658	ω	160.18787		+0.34457153		+0.93718989	
<i>a</i>	2.1848231	Ω	129.92800		-0.87055611		+0.34063683	
<i>e</i>	0.0850488	<i>i</i>	4.05843		-0.35128694		+0.07511091	
<i>P</i>	3.23	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4	
Residuals in seconds of arc								
1997 03 18	910	0.4+	0.0	1997 06 09	809	0.9+	0.8-	2000 04 04 704 0.3+ 0.4-
1997 03 18	910	0.1-	0.1+	2000 03 08	704	0.9+	1.9-	2000 04 04 704 0.5+ 0.0
1997 03 18	910	0.2-	0.3+	2000 03 08	704	0.3+	0.4+	2000 04 04 704 0.1+ 0.1+
1997 05 04	809	1.3+	1.1+	2000 03 08	704	0.1-	0.4-	2000 04 04 704 0.3- 0.1-
1997 05 04	809	0.9+	1.6+	2000 03 08	704	0.0	0.1-	2000 04 08 704 0.3- 0.0
1997 05 04	809	0.4+	1.5+	2000 03 08	704	0.2-	0.2+	2000 04 08 704 0.6+ 0.2-
1997 05 31	691	(2.5-	0.8+)	2000 03 29	704	0.1-	1.4+	2000 04 08 704 0.8+ 0.4-
1997 05 31	691	1.0-	1.2+	2000 03 29	704	0.4-	0.1+	2000 04 08 704 0.3- 0.6-
1997 05 31	691	0.8-	0.6+	2000 03 29	704	1.1-	0.5+	2000 04 08 704 0.1+ 0.4-
1997 06 08	809	1.4-	0.9-	2000 03 30	703	0.6-	0.6+	2000 04 10 704 0.1- 0.3-
1997 06 08	809	1.3-	0.9-	2000 03 30	703	0.4-	0.1+	2000 04 10 704 0.3- 0.2+
1997 06 08	809	0.9-	1.6-	2000 03 30	703	0.6-	0.1+	2000 04 10 704 0.2- 0.3+
1997 06 09	809	0.8+	0.7-	2000 03 30	703	0.8+	0.2-	2000 04 10 704 0.1+ 0.1+
1997 06 09	809	1.4+	0.3-	2000 04 04	704	0.1-	0.5-	2000 04 10 704 0.2+ 0.1-

2000 FH₃₉ = 1994 BD

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	1.76129		(2000.0)		P		Q	
<i>n</i>	0.19427136	ω	107.70108		-0.98992889		+0.13081072	
<i>a</i>	2.9525473	Ω	79.84153		-0.14150157		-0.90281894	
<i>e</i>	0.0283556	<i>i</i>	3.15203		-0.00425496		-0.40964195	
<i>P</i>	5.07	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1994 01 18	589	0.5-	1.0+	1998 12 17	704	0.3-	0.6-	2000 04 04 704 0.4- 0.0
1994 01 18	589	0.1+	0.6+	2000 03 09	704	0.1+	0.2+	2000 04 04 704 0.1- 0.4-
1994 01 18	589	0.6+	0.5-	2000 03 09	704	1.1+	0.1-	2000 04 04 704 0.0 1.0-
1994 01 20	589	0.9-	0.3-	2000 03 09	704	0.4-	0.1+	2000 04 08 704 0.0 0.5-
1994 01 20	589	0.4+	0.9+	2000 03 09	704	0.2+	0.2-	2000 04 08 704 0.5+ 0.5+
1994 01 20	589	0.5+	0.6+	2000 03 09	704	0.0	0.3+	2000 04 08 704 0.9+ 0.9+
1996 07 14	566	0.3+	0.5-	2000 03 29	704	0.5-	0.2-	2000 04 08 704 0.0 1.2+
1996 07 14	566	0.3+	0.1-	2000 03 29	704	0.0	0.2-	2000 04 08 704 0.1+ 1.0+
1996 07 14	566	0.4-	0.1-	2000 03 29	704	0.9-	0.0	2000 04 10 704 0.1- 0.0
1998 12 17	704	0.1+	0.8-	2000 03 29	704	0.0	0.8+	2000 04 10 704 0.4+ 0.4-
1998 12 17	704	0.9-	0.1+	2000 03 29	704	0.0	0.4+	2000 04 10 704 0.1+ 1.0-
1998 12 17	704	1.3+	0.0	2000 04 04	704	0.3-	0.2+	2000 04 10 704 0.6- 0.7-
1998 12 17	704	0.5-	1.9-	2000 04 04	704	0.2-	0.2-	2000 04 10 704 0.0 1.0-

2000 FN₃₉ = 1991 RV₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	17.92141		(2000.0)		P		Q	
<i>n</i>	0.29506955	ω	63.32324		-0.95212176		-0.30147652	
<i>a</i>	2.2345313	Ω	99.09523		+0.25903849		-0.88371813	
<i>e</i>	0.0886888	<i>i</i>	2.94637		+0.16236752		-0.35798629	
<i>P</i>	3.34	<i>H</i>	15.8	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1991 09 15	691	0.0	0.7+	2000 03 29	704	0.3-	0.4+	2000 04 08 704 0.1+ 0.1+
1991 09 15	691	0.1+	0.1+	2000 04 02	699	0.5+	0.1+	2000 04 08 704 1.1+ 0.7-
1991 09 15	691	0.1-	0.2+	2000 04 02	699	0.3-	0.2+	2000 04 08 704 0.3- 0.4-
1991 09 17	691	0.2-	0.6-	2000 04 02	699	0.3-	0.2-	2000 04 08 704 0.1- 0.2-
1991 09 17	691	0.1+	0.0	2000 04 02	699	0.1-	0.1+	2000 04 08 704 0.1- 0.2-
1991 09 17	691	0.1+	0.4-	2000 04 04	704	0.5+	0.0	2000 04 10 704 0.2- 0.3-
2000 03 29	704	0.2+	0.4-	2000 04 04	704	0.3-	0.1+	2000 04 10 704 0.1+ 0.1+
2000 03 29	704	0.2+	0.1+	2000 04 04	704	0.7-	0.1+	2000 04 10 704 0.7+ 0.7+

2000 03 29	704	0.1+	0.0	2000 04 04	704	0.3-	0.3-	2000 04 10	704	0.1-	0.6+
2000 03 29	704	0.1+	0.1+	2000 04 04	704	0.4-	0.1-	2000 04 10	704	0.2-	0.1+

2000 FT₃₉ = 1998 WZ₉ = 1998 WZ₁₁Id. G. V. Williams, A. Doppler (d, *MPC* 34061), M. E. Sansaturio (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	35.22824		(2000.0)		P		Q	
<i>n</i>	0.26125666	ω	51.85742		-0.85132693		-0.52078385	
<i>a</i>	2.4233965	Ω	96.67358		+0.45914389		-0.79810270	
<i>e</i>	0.0492592	<i>i</i>	3.66305		+0.25382937		-0.30301198	
<i>P</i>	3.77	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1998 11 18	704	1.4+	1.4-	1998 11 24	704	0.7-	0.6+	2000 04 02	699	0.9+	0.5+
1998 11 18	704	(2.5+	0.6-)	1998 11 24	704	1.6+	0.6-	2000 04 04	704	0.6+	0.2-
1998 11 18	704	1.1+	1.0-	1998 11 24	704	0.0	1.0+	2000 04 04	704	0.1+	0.4-
1998 11 19	704	0.2-	0.4-	2000 03 08	704	0.9+	0.5+	2000 04 04	704	0.9+	1.2+
1998 11 19	704	1.1-	0.3-	2000 03 08	704	0.9-	0.2-	2000 04 04	704	0.1+	0.3+
1998 11 19	704	1.4+	0.8+	2000 03 08	704	0.0	0.3+	2000 04 04	704	0.8+	0.3+
1998 11 19	704	0.6-	0.2+	2000 03 08	704	0.0	0.5-	2000 04 08	704	0.2+	0.6+
1998 11 19	704	(2.7-	1.3-)	2000 03 08	704	0.5-	0.2+	2000 04 08	704	0.2+	0.0
1998 11 21	704	1.2-	1.0+	2000 03 29	704	0.1-	0.3-	2000 04 08	704	0.2+	0.5+
1998 11 21	704	0.2-	0.5-	2000 03 29	704	0.2+	0.3-	2000 04 08	704	0.2-	1.0+
1998 11 21	704	1.0+	0.7-	2000 03 29	704	0.7-	0.7-	2000 04 08	704	0.7-	0.4-
1998 11 21	704	0.1-	0.0	2000 03 29	704	0.4-	0.9-	2000 04 11	608	0.4-	1.4-
1998 11 23	699	1.5-	0.1+	2000 03 29	704	0.2-	0.1-	2000 04 11	608	0.6-	1.4-
1998 11 23	699	0.0	0.1+	2000 04 02	699	0.1+	0.8+	2000 04 11	608	0.5-	1.5-
1998 11 23	699	0.2-	1.0+	2000 04 02	699	0.0	0.8+				
1998 11 24	704	0.6-	0.1+	2000 04 02	699	0.1-	1.2+				

2000 FV₃₉ = 1993 TV₁₁ = 1996 FU₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	249.91318		(2000.0)		P		Q	
<i>n</i>	0.23722329	ω	280.99383		+0.65891495		+0.73982950	
<i>a</i>	2.5844284	Ω	31.58006		-0.54796171		+0.59591015	
<i>e</i>	0.1382125	<i>i</i>	15.04677		-0.51533392		+0.31231939	
<i>P</i>	4.15	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	1	

Residuals in seconds of arc

1993 10 13	675	1.1+	0.0	1999 01 14	704	0.1-	0.2+	2000 03 30	703	0.3-	0.0
1993 10 13	675	0.7-	0.4-	1999 01 14	704	0.6-	1.2+	2000 04 02	699	0.5-	0.2+
1993 10 15	675	0.1-	0.1+	1999 01 14	704	0.7+	1.7+	2000 04 02	699	0.1-	0.1-
1996 03 24	809	1.1+	0.5+	1999 01 14	704	0.0	0.2-	2000 04 02	699	0.2-	0.5-
1996 03 24	809	0.4+	1.0+	1999 01 14	704	0.8+	0.4+	2000 04 02	699	0.2-	1.2+
1996 03 24	809	0.1-	0.9+	1999 02 20	699	0.3-	0.6-	2000 04 04	704	0.2+	0.4-
1996 03 27	809	(1.3+	2.7+)	1999 02 20	699	0.4-	0.4+	2000 04 04	704	0.5+	0.1+
1996 03 27	809	(1.4+	2.8+)	1999 02 20	699	0.2+	0.3+	2000 04 04	704	0.4-	0.1-
1996 03 27	809	(1.0+	2.4+)	2000 03 08	704	0.1+	0.6-	2000 04 04	704	0.2+	0.3+
1996 04 17	809	0.1+	1.7+	2000 03 08	704	0.2+	0.1+	2000 04 04	704	0.5-	0.0
1996 04 17	809	1.3+	0.9+	2000 03 08	704	0.2+	0.6-	2000 04 08	704	0.5-	0.7-
1996 04 17	809	0.8+	0.7+	2000 03 08	704	1.3-	0.1-	2000 04 08	704	0.1-	0.3+
1998 12 12	704	0.2-	0.6+	2000 03 29	704	0.1-	0.7-	2000 04 08	704	0.0	0.5-
1998 12 12	704	0.3-	0.8-	2000 03 29	704	0.1-	0.4-	2000 04 08	704	0.1-	0.4-
1998 12 12	704	0.2+	0.7-	2000 03 29	704	0.1+	0.7-	2000 04 08	704	0.2-	0.4-
1998 12 12	704	0.1-	0.6-	2000 03 29	704	0.0	0.1-	2000 04 10	704	0.3-	0.2-
1998 12 12	704	1.6-	0.2+	2000 03 29	704	0.2+	0.2+	2000 04 10	704	0.4-	0.1-
1998 12 24	699	0.2+	0.2+	2000 03 30	703	0.3-	0.2-	2000 04 10	704	0.1-	0.6-
1998 12 24	699	0.6+	0.3-	2000 03 30	703	0.7-	0.5-	2000 04 10	704	0.3+	0.5-
1998 12 24	699	0.7+	0.2-	2000 03 30	703	0.1-	0.1-				

2000 APR. 18

M.P.C. 40249

2000 FY₃₉ = 1993 TA₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	267.70752		(2000.0)	P	Q
<i>n</i>	0.24384688	ω	145.77178	+0.54486148	+0.83725336
<i>a</i>	2.5374135	Ω	157.13761	-0.79347898	+0.53261677
<i>e</i>	0.1935713	<i>i</i>	6.82670	-0.27114034	+0.12379899
<i>P</i>	4.04	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1993 10 09	809	(1.9+ 2.9+)	2000 03 29	704	0.1- 0.4+	2000 04 04	704	0.0 2.0-
1993 10 09	809	0.2+ 0.9+	2000 03 29	704	0.5- 0.1-	2000 04 08	704	0.6- 0.0
1993 10 09	809	0.2- 2.0+	2000 03 29	704	0.0 0.5-	2000 04 08	704	0.1+ 0.3-
1993 10 11	809	0.6+ 0.9-	2000 03 29	704	0.2+ 0.2-	2000 04 08	704	0.2- 0.3-
1993 10 11	809	0.2- 0.9-	2000 03 29	704	0.1- 0.6-	2000 04 08	704	0.4+ 0.4-
1993 10 11	809	0.4- 1.2-	2000 03 30	703	1.2+ 0.3+	2000 04 08	704	0.2+ 0.1-
2000 03 08	704	0.4- 0.3-	2000 03 30	703	0.8- 0.8-	2000 04 13	704	0.4- 1.1+
2000 03 08	704	0.2- 0.1+	2000 03 30	703	1.2- 0.9+	2000 04 13	704	0.5- 1.3+
2000 03 08	704	0.6- 1.2+	2000 03 30	703	0.2+ 0.5-	2000 04 13	704	0.6+ 1.7+
2000 03 08	704	0.1- 0.9+	2000 04 04	704	1.6+ 1.5-			
2000 03 08	704	0.0 0.5+	2000 04 04	704	0.7+ 1.0-			

2000 FZ₃₉ = 1998 QD₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	97.96089		(2000.0)	P	Q
<i>n</i>	0.22378540	ω	264.99512	+0.43898500	-0.89678826
<i>a</i>	2.6868797	Ω	158.69608	+0.87287284	+0.41105216
<i>e</i>	0.2833565	<i>i</i>	8.76204	+0.21303797	+0.16372822
<i>P</i>	4.40	<i>H</i>	13.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1996 04 09	691	0.2+ 0.4+	2000 03 08	704	0.9+ 1.8+	2000 04 03	699	0.4- 0.1+
1996 04 09	691	0.2+ 0.5+	2000 03 08	704	0.6+ 0.9+	2000 04 03	699	0.4+ 0.3-
1996 04 09	691	0.0 0.5+	2000 03 08	704	1.3+ 0.7+	2000 04 03	699	0.4- 0.0
1998 08 28	704	0.9- 1.9+	2000 03 29	704	0.2- 0.1-	2000 04 04	704	0.2- 1.0+
1998 08 28	704	(2.0- 2.7+)	2000 03 29	704	0.0 0.5+	2000 04 04	704	0.6- 0.3-
1998 08 28	704	(1.0+ 3.7+)	2000 03 29	704	1.6+ 0.0	2000 04 04	704	0.5- 0.5+
1998 08 28	704	(3.8- 2.3+)	2000 03 29	704	0.5+ 0.2-	2000 04 04	704	1.4- 0.1+
1998 08 31	704	0.8+ 1.6+	2000 04 02	699	0.5- 0.2-	2000 04 13	704	0.1- 1.3-
1998 08 31	704	0.7+ 0.9-	2000 04 02	699	0.4+ 0.6-	2000 04 13	704	0.3+ 1.1-
1998 08 31	704	0.3- 0.3-	2000 04 02	699	0.2- 0.2-	2000 04 13	704	1.0- 0.8+
1998 08 31	704	0.0 1.0+	2000 04 02	699	0.2- 0.2+			
1998 08 31	704	1.1- 0.5+	2000 04 03	699	0.5+ 0.2+			

2000 FF₄₀ = 1994 NL₆ = 1998 XS₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	233.39343		(2000.0)	P	Q
<i>n</i>	0.30168183	ω	214.92573	+0.85016431	+0.51877611
<i>a</i>	2.2017599	Ω	113.58060	-0.45795898	+0.81289260
<i>e</i>	0.1831477	<i>i</i>	5.63272	-0.25979649	+0.26472056
<i>P</i>	3.27	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 3

Residuals in seconds of arc

1994 07 11	809	0.7+ 0.8+	1998 12 22	704	1.8- 0.9+	2000 04 04	704	0.1- 0.0
1994 07 11	809	0.4- 0.4+	2000 03 08	704	0.4+ 0.8+	2000 04 04	704	0.5- 0.3+
1994 07 11	809	1.2+ 0.6+	2000 03 08	704	0.3+ 0.5+	2000 04 04	704	0.2- 0.8+
1994 07 12	809	(2.4- 0.3-)	2000 03 08	704	0.2+ 0.4+	2000 04 04	704	0.5+ 0.2+
1994 07 12	809	0.1- 0.1+	2000 03 08	704	1.0- 0.8-	2000 04 08	704	0.2- 0.6-
1994 07 12	809	1.4- 0.6-	2000 03 29	704	0.2+ 0.5+	2000 04 08	704	0.3+ 0.9-
1998 12 15	704	0.9+ 0.2-	2000 03 29	704	0.4+ 0.7+	2000 04 08	704	0.2+ 0.5-
1998 12 15	704	0.8+ 0.0	2000 03 29	704	0.2+ 0.3+	2000 04 08	704	0.2+ 0.2-
1998 12 15	704	0.1+ 1.4-	2000 03 29	704	0.2+ 0.8+	2000 04 08	704	0.2+ 0.7-
1998 12 15	704	0.1- 0.4+	2000 03 29	704	0.4+ 0.5+	2000 04 09	739	1.1- 0.9+
1998 12 15	704	0.6- 1.2-	2000 04 02	699	0.7- 0.0	2000 04 09	739	(3.5- 2.0-)
1998 12 22	704	0.9+ 1.2+	2000 04 02	699	0.7- 0.7+	2000 04 10	608	0.4+ 2.0-
1998 12 22	704	1.6+ 0.2-	2000 04 02	699	0.1- 0.1+	2000 04 10	608	0.7+ 1.8-

1998 12 22	704	1.1- 1.1+	2000 04 02	699	0.0 1.0+	2000 04 10	608	(0.1+ 2.1-)
1998 12 22	704	0.8- 1.0+	2000 04 04	704	0.1- 0.4-			

2000 FH₄₀ = 1992 OX = 1999 CD₈₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	273.58330		(2000.0)	P	Q
<i>n</i>	0.22617740	ω	256.67698	+0.45710922	+0.87512121
<i>a</i>	2.6679022	Ω	41.73498	-0.69540935	+0.46296442
<i>e</i>	0.2097305	<i>i</i>	13.80007	-0.55448805	+0.14080771
<i>P</i>	4.36	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1992 07 28	413	0.0 0.1-	1999 01 14	704	0.7- 0.4-	2000 04 03	699	0.0 0.2+
1992 07 28	413	0.9+ 0.3-	1999 01 14	704	0.1+ 1.1+	2000 04 03	699	0.4- 0.2+
1992 08 01	413	1.0- 1.1-	1999 01 14	704	0.1- 0.2+	2000 04 03	699	0.4+ 0.1+
1992 08 01	413	0.8+ 0.2-	1999 02 10	704	0.4+ 0.8-	2000 04 03	699	0.0 0.4+
1997 10 29	704	0.0 0.4+	1999 02 10	704	1.2+ 0.7-	2000 04 04	704	0.2+ 0.3+
1997 10 29	704	(2.3+ 0.0)	1999 02 10	704	1.6+ 0.4-	2000 04 04	704	0.2- 0.1+
1997 10 29	704	1.0- 0.2-	1999 02 10	704	0.0 1.0-	2000 04 04	704	0.8+ 0.8-
1997 10 29	704	1.2- 0.1+	1999 02 10	704	1.1+ 1.1-	2000 04 04	704	0.3+ 0.2+
1997 10 30	704	1.5+ 1.0-	1999 02 13	704	1.2+ 1.2-	2000 04 04	704	0.1- 0.0
1997 10 30	704	1.8+ 1.0-	1999 02 13	704	0.8- 0.6-	2000 04 08	704	0.1- 0.7+
1997 10 30	704	1.0+ 0.3-	1999 02 13	704	1.1+ 0.0	2000 04 08	704	0.4- 0.9+
1997 10 30	704	1.0+ 0.4-	1999 02 13	704	1.2+ 0.7+	2000 04 08	704	1.1- 1.5+
1997 10 31	704	0.3- 0.5+	2000 02 06	704	0.0 0.3+	2000 04 08	704	0.0 1.1+
1997 10 31	704	0.8- 0.7+	2000 02 06	704	0.3- 0.7+	2000 04 09	739	0.6- 1.3-
1997 10 31	704	0.1- 0.3+	2000 02 06	704	1.0+ 0.5+	2000 04 09	739	0.2- 1.9-
1997 10 31	704	0.5+ 0.3+	2000 03 08	704	0.3- 0.2-	2000 04 09	739	1.0- 1.2-
1997 10 31	704	0.9- 0.2-	2000 03 08	704	0.1+ 0.3-	2000 04 10	739	0.3- 0.3+
1997 11 06	704	(2.9- 1.1+)	2000 03 08	704	0.2- 0.2+	2000 04 10	739	1.7- 1.5-
1997 11 06	704	(3.0- 0.7+)	2000 03 08	704	0.2+ 0.0	2000 04 10	739	(1.3- 2.2+)
1997 11 06	704	1.9- 0.8+	2000 03 08	704	0.7+ 1.1+	2000 04 10	739	(3.3+ 1.2-)
1997 11 06	704	(2.3- 1.3+)	2000 03 29	704	0.4+ 0.4+	2000 04 11	608	0.1+ 0.7-
1997 11 06	704	(2.8- 0.9+)	2000 03 29	704	0.0 0.3+	2000 04 11	608	0.2+ 1.0-
1998 12 21	704	0.7- 0.2-	2000 03 29	704	0.1+ 0.2-	2000 04 11	608	0.2+ 1.2-
1998 12 21	704	0.9- 0.1-	2000 03 29	704	0.5+ 0.4+	2000 04 13	704	0.3- 0.0
1998 12 21	704	1.2- 0.1+	2000 03 29	704	0.4+ 0.0	2000 04 13	704	0.4+ 0.3-
1998 12 21	704	1.1- 0.2+	2000 04 02	699	0.1- 0.9+	2000 04 13	704	0.3+ 0.3-
1998 12 21	704	1.4- 0.7+	2000 04 02	699	0.6+ 0.5+	2000 04 13	704	0.2+ 0.3+
1999 01 14	704	0.1- 0.3-	2000 04 02	699	0.4+ 0.1+	2000 04 13	704	0.2+ 0.7-
1999 01 14	704	1.0- 1.4+	2000 04 02	699	0.3+ 0.7+			

2000 FN₄₁ = 1990 AB = 1992 LX = 1997 YC₉ = 1999 CC₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	197.85605		(2000.0)	P	Q
<i>n</i>	0.22861555	ω	266.58097	+0.99181852	-0.05070059
<i>a</i>	2.6488999	Ω	96.30150	+0.09223878	+0.91907552
<i>e</i>	0.2609878	<i>i</i>	6.76907	-0.08824987	+0.39080638
<i>P</i>	4.31	<i>H</i>	13.7	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1990 01 04	888	(0.1- 3.0+)	1999 01 19	704	0.4+ 0.7+	2000 03 29	704	0.4- 0.7+
1990 01 04	888	(0.7- 2.5+)	1999 01 19	704	0.0 1.8+	2000 03 29	704	0.6+ 0.1+
1990 01 05	888	1.4+ 0.2+	1999 01 19	704	1.4+ 1.5-	2000 03 29	704	0.3+ 0.8+
1990 01 05	888	0.3- 0.0	1999 01 19	704	(5.8- 2.6-)	2000 03 29	704	0.2+ 0.5+
1992 06 01	809	(1.6- 2.1-)	1999 02 10	704	0.0 1.4-	2000 04 04	699	0.4+ 0.4+
1992 06 01	809	0.5- 1.6-	1999 02 10	704	0.9- 0.9+	2000 04 04	699	0.2+ 0.3+
1992 06 01	809	(0.7- 2.8-)	1999 02 10	704	1.1- 0.4-	2000 04 04	704	0.7+ 0.9+
1992 06 03	809	0.1- 0.6-	1999 02 10	704	1.4- 0.7-	2000 04 04	704	0.2- 0.3-
1992 06 03	809	1.0- 1.1-	1999 02 10	704	0.3- 0.0	2000 04 04	699	0.3+ 0.2+
1992 06 03	809	1.1- 0.3-	1999 02 12	699	0.5+ 0.3+	2000 04 04	704	0.9+ 0.8+
1997 12 26	566	0.9+ 0.0	1999 02 12	699	(2.3+ 0.0)	2000 04 04	699	0.6+ 0.1+
1997 12 26	566	0.8+ 0.1-	1999 02 12	699	0.3+ 1.1+	2000 04 04	704	0.8+ 0.8+
1997 12 26	566	1.2+ 0.3-	1999 02 13	704	0.2+ 0.8-	2000 04 04	704	0.8- 0.2+
1997 12 30	566	0.8- 0.2-	1999 02 13	704	1.7- 1.4-	2000 04 08	704	0.3+ 1.0-
1997 12 30	566	0.9- 0.1-	1999 02 13	704	0.3+ 0.7-	2000 04 08	704	1.0+ 1.2-

M.P.C. 40250

1997 12 30 566 0.6− 0.2− 1999 02 13 704 2.0− 0.5− 2000 04 08 704 0.2+ 1.1−
 1999 01 19 704 1.0+ 0.5− 2000 03 29 704 0.8− 0.6+

2000 FQ₄₁ = 1998 VG₃₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	43.79443	(2000.0)	P	Q	
<i>n</i>	0.22577449	<i>ω</i>	84.15664	−0.63839709	−0.75394870
<i>a</i>	2.6710753	<i>Ω</i>	46.76152	+0.59481726	−0.61101072
<i>e</i>	0.1444215	<i>i</i>	12.28058	+0.48850955	−0.24130324
<i>P</i>	4.37	<i>H</i>	14.5	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 10 29	120	0.9+	0.5−	2000 02 06	704	0.1−	0.7+	2000 04 04	704	0.9−	0.3+
1998 10 30	120	0.6+	0.5−	2000 02 06	704	0.6+	0.2+	2000 04 04	704	0.1+	0.4−
1998 10 30	120	(3.7+	0.7−)	2000 02 06	704	0.2−	0.1+	2000 04 04	704	0.6−	0.2−
1998 11 14	704	0.6−	0.5−	2000 03 02	703	0.6−	1.1−	2000 04 04	704	0.1+	0.8+
1998 11 14	704	1.7+	0.2−	2000 03 02	703	0.8−	0.9+	2000 04 08	704	0.9−	0.1+
1998 11 14	704	0.1−	0.6−	2000 03 02	703	0.0	0.4−	2000 04 08	704	0.6+	0.8−
1998 11 14	704	0.2−	0.3+	2000 03 02	703	0.1+	0.2+	2000 04 08	704	0.7+	0.4−
1998 11 14	704	1.5−	0.3−	2000 03 29	704	0.1−	0.5+	2000 04 08	704	0.4+	1.5−
1998 11 18	704	0.6+	0.5+	2000 03 29	704	0.3−	0.2+	2000 04 08	704	0.0	1.0−
1998 11 18	704	0.0	0.9+	2000 03 29	704	0.5+	0.1+	2000 04 13	704	0.2−	0.8+
1998 11 18	704	1.2−	0.7+	2000 03 29	704	0.0	0.0	2000 04 13	704	0.3+	0.1−
1998 11 18	704	(0.7−	2.7+)	2000 03 29	704	0.2−	0.2+	2000 04 13	704	1.1+	0.9+

2000 FW₄₁ = 1994 CH₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	3.84739	(2000.0)	P	Q	
<i>n</i>	0.17526302	<i>ω</i>	59.50332	−0.99382426	+0.06782015
<i>a</i>	3.1623445	<i>Ω</i>	124.24912	−0.09394428	−0.93548063
<i>e</i>	0.0579011	<i>i</i>	6.09933	+0.05905774	−0.34680890
<i>P</i>	5.62	<i>H</i>	14.1	<i>G</i>	0.15 <i>U</i> 6

Residuals in seconds of arc

1994 02 08	809	0.6−	0.5+	2000 03 29	704	0.3+	0.1−	2000 04 03	699	0.1−	0.3−
1994 02 08	809	0.4−	0.1−	2000 03 29	704	0.0	0.4−	2000 04 03	699	0.7+	0.6−
1994 02 08	809	0.2−	0.0	2000 03 29	704	1.7−	1.4+	2000 04 04	704	0.1−	0.7−
1994 02 10	809	1.6+	0.0	2000 03 29	704	0.4+	0.7+	2000 04 04	704	0.2−	0.7−
1994 02 10	809	0.1+	0.2+	2000 04 03	699	0.4−	0.5+	2000 04 04	704	0.2+	0.5+
1994 02 10	809	0.6−	0.6−	2000 04 03	699	0.3+	0.3+	2000 04 04	704	0.7+	0.5−

2000 FB₄₂ = 1995 MA₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	82.31194	(2000.0)	P	Q	
<i>n</i>	0.17690836	<i>ω</i>	314.99598	−0.20458722	−0.97543508
<i>a</i>	3.1427064	<i>Ω</i>	146.55758	+0.93460100	−0.21946077
<i>e</i>	0.0628409	<i>i</i>	8.52265	+0.29097258	+0.01906261
<i>P</i>	5.57	<i>H</i>	13.5	<i>G</i>	0.15 <i>U</i> 1

Residuals in seconds of arc

1991 10 02	691	0.7+	0.6+	1995 07 01	691	0.4−	0.1−	2000 04 08	704	0.8+	0.4−
1991 10 02	691	0.5+	0.4+	1995 07 01	691	0.3−	0.2+	2000 04 08	704	0.3−	0.1−
1991 10 02	691	1.5−	0.3−	2000 03 29	704	1.0+	0.5+	2000 04 08	704	0.1−	0.8+
1994 03 05	691	0.1+	0.1+	2000 03 29	704	1.2+	0.3+	2000 04 11	608	0.2−	1.3−
1994 03 05	691	0.2+	0.1+	2000 03 29	704	0.5−	0.6+	2000 04 11	608	0.4−	1.4−
1994 03 05	691	0.1−	0.3+	2000 03 29	704	0.9+	0.9−	2000 04 11	608	0.4+	1.0−
1995 05 31	691	1.2+	0.7+	2000 04 04	704	0.1−	0.6+	2000 04 13	704	0.4−	0.7−
1995 05 31	691	(2.4+	0.7+)	2000 04 04	704	0.2+	0.6+	2000 04 13	704	0.4−	0.0
1995 05 31	691	0.6+	0.2−	2000 04 04	704	0.5+	0.2+	2000 04 13	704	1.5−	0.6−
1995 06 25	691	0.1−	0.1+	2000 04 04	704	0.7+	0.5+	2000 04 13	704	1.6−	0.2−
1995 06 25	691	0.0	0.3−	2000 04 04	704	0.6+	1.0+	2000 04 13	704	1.5−	1.2+
1995 06 25	691	0.7−	0.5−	2000 04 08	704	0.1+	0.1−				
1995 07 01	691	0.4−	0.4+	2000 04 08	704	0.6+	0.5+				

2000 APR. 18

2000 FQ₄₂ = 1996 HA₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	279.50294	(2000.0)	P	Q	
<i>n</i>	0.22179218	<i>ω</i>	162.29164	−0.17629269	+0.98234876
<i>a</i>	2.7029534	<i>Ω</i>	97.51950	−0.91057370	−0.13861883
<i>e</i>	0.0680957	<i>i</i>	3.61702	−0.37386684	−0.12560152
<i>P</i>	4.44	<i>H</i>	13.8	<i>G</i>	0.15 <i>U</i> 5

Residuals in seconds of arc

1996 04 14	691	1.1−	1.6−	1996 05 23	809	0.9+	0.0	2000 04 05	704	0.3+	0.1+
1996 04 14	691	0.7−	1.7−	2000 03 02	703	0.3+	0.1+	2000 04 05	704	0.0	0.2−
1996 04 14	691	0.6−	1.7−	2000 03 02	703	0.1+	1.4+	2000 04 05	704	0.2+	0.0
1996 04 20	809	0.7+	1.4+	2000 03 02	703	0.5−	1.6+	2000 04 05	704	0.4−	0.2−
1996 04 20	809	1.5+	1.9+	2000 03 02	703	1.0−	0.4+	2000 04 08	704	0.3−	1.1−
1996 04 20	809	0.5−	1.4+	2000 03 12	704	0.4+	0.6+	2000 04 08	704	0.0	0.0
1996 04 21	809	1.1+	1.3+	2000 03 12	704	0.2−	0.3+	2000 04 08	704	0.0	0.4+
1996 04 21	809	0.7+	1.7+	2000 03 12	704	0.2+	0.2−	2000 04 08	704	0.4+	0.6−
1996 04 21	809	0.6+	1.2+	2000 03 12	704	0.5−	0.3−	2000 04 08	704	0.2−	0.5−
1996 05 22	809	0.8−	0.1−	2000 03 12	704	0.1−	0.1+	2000 04 10	704	0.2+	0.2−
1996 05 22	809	1.6−	1.0−	2000 03 28	704	0.4+	0.3−	2000 04 10	704	0.1+	0.2+
1996 05 22	809	1.7−	0.0	2000 03 28	704	0.3−	0.3+	2000 04 10	704	0.5−	0.7−
1996 05 23	809	1.2+	1.0−	2000 03 28	704	0.0	1.1−	2000 04 10	704	0.1+	0.5−
1996 05 23	809	0.5+	0.9−	2000 03 28	704	0.8+	0.1+	2000 04 10	704	0.2+	0.5−

2000 FR₄₂ = 1998 XJ₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	274.98038	(2000.0)	P	Q	
<i>n</i>	0.24674234	<i>ω</i>	233.25089	−0.13885076	+0.98845746
<i>a</i>	2.5175239	<i>Ω</i>	28.94430	−0.86401017	−0.09101124
<i>e</i>	0.0508581	<i>i</i>	7.19325	−0.48394926	−0.12111482
<i>P</i>	3.99	<i>H</i>	13.5	<i>G</i>	0.15 <i>U</i> 4

Residuals in seconds of arc

1998 11 24	704	1.1+	0.6−	2000 02 11	704	1.2−	0.8+	2000 04 05	704	0.0	0.0
1998 11 24	704	0.7+	0.0	2000 02 11	704	0.6+	0.1−	2000 04 05	704	0.2−	0.3+
1998 11 24	704	0.6+	0.4−	2000 02 11	704	0.5+	0.2+	2000 04 05	704	0.3−	0.0
1998 11 24	704	0.4−	1.3−	2000 02 11	704	0.9−	0.1−	2000 04 05	704	1.0+	0.6−
1998 11 24	704	(2.7−	1.4+)	2000 03 12	703	0.2+	1.1−	2000 04 07	608	0.5−	0.6−
1998 12 14	704	0.8−	0.8+	2000 03 12	703	0.1−	0.1+	2000 04 07	608	0.4−	0.8−
1998 12 14	704	1.4−	0.3+	2000 03 12	703	0.1−	0.3+	2000 04 07	608	0.3−	0.3−
1998 12 14	704	0.0	0.8−	2000 03 12	703	0.0	0.2−	2000 04 08	704	0.3−	0.1+
1998 12 14	704	0.3−	0.8+	2000 03 12	704	0.2+	0.0	2000 04 08	704	0.5+	0.4+
1998 12 17	704	(2.3−	0.2−)	2000 03 12	704	0.2−	0.1+	2000 04 08	704	0.5+	0.1+
1998 12 17	704	1.1+	0.4+	2000 03 12	704	0.0	0.2−	2000 04 08	704	0.7+	0.5+
1998 12 17	704	0.8−	1.1+	2000 03 12	704	0.0	0.2−	2000 04 08	704	0.1+	0.8+
1998 12 17	704	0.2−	0.5+	2000 03 12	704	0.0	0.2−	2000 04 10	704	0.3−	0.1+
2000 01 04	704	0.3−	0.2−	2000 03 28	704	0.1−	0.4+	2000 04 10	704	0.0	0.5+
2000 01 04	704	0.1−	0.3−	2000 03 28	704	0.0	0.3−	2000 04 10	704	0.4+	0.2+
2000 01 04	704	0.4−	0.0	2000 03 28	704	0.1−	0.6+	2000 04 10	704	0.5+	0.3+
2000 01 04	704	1.4−	1.4−	2000 03 28	704	0.1+	0.1+	2000 04 10	704	0.0	0.6+
2000 02 11	704	0.7+	0.5−	2000 04 05	704	0.5+	0.1+				

2000 FC₄₃ = 1991 PU₅ = 1991 RG₁₂ = 1997 GJ₃₅Id. G. V. Williams, S. Nakano (d, *MPC* 19821)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	267.06414	(2000.0)	P	Q	
<i>n</i>	0.30516362	<i>ω</i>	156.92555	+0.15000956	+0.98773954
<i>a</i>	2.1849804	<i>Ω</i>	121.67699	−0.91483353	+0.15524846
<i>e</i>	0.1045560	<i>i</i>	2.91089	−0.37493565	+0.01638647
<i>P</i>	3.23	<i>H</i>	15.0	<i>G</i>	0.15 <i>U</i> 3

Residuals in seconds of arc

1991 08 06	809	0.2−	0.1+	1997 04 08	809	1.1−	1.0+	2000 04 05	704	1.0−	0.2−
1991 08 06	809	0.7									

2000 APR. 18

M.P.C. 40251

1991 08 14	809	1.0+	0.0	1997 04 11	704	1.7+	0.0	2000 04 05	704	1.0-	0.4+
1991 08 14	809	1.1+	0.3-	1998 11 14	704	0.3+	2.0+	2000 04 08	704	0.0	0.6-
1991 08 14	809	0.2+	0.7-	1998 11 14	704	0.6-	0.6+	2000 04 08	704	0.6-	0.4+
1991 09 04	809	(2.2-	0.3-)	1998 11 14	704	0.2-	1.4-	2000 04 08	704	0.6-	0.5-
1991 09 04	809	1.6-	0.2+	1998 11 14	704	0.1+	0.1-	2000 04 08	704	0.1+	0.2+
1991 09 04	809	1.2-	0.1+	2000 03 12	704	1.5+	1.0+	2000 04 10	704	0.3-	0.1-
1997 04 06	704	0.2-	1.1-	2000 03 12	704	1.5+	0.5-	2000 04 10	704	0.7-	0.4+
1997 04 06	704	0.9+	1.1-	2000 03 12	704	1.5+	1.1-	2000 04 10	704	0.7-	0.7-
1997 04 07	809	(0.4+	2.6+)	2000 03 12	704	0.2-	1.1-	2000 04 10	704	0.1-	0.6+
1997 04 07	809	(0.3-	2.3+)	2000 03 28	704	0.1-	0.6-	2000 04 10	704	0.4+	0.2+
1997 04 07	809	0.2+	1.3+	2000 03 28	704	0.2+	0.0				
1997 04 08	809	1.1-	1.5+	2000 03 28	704	0.4+	0.3+				

2000 FD₄₃ = 1996 FR₂₀ = 1998 WK₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	67.77863	(2000.0)	
<i>n</i>	0.23080879	ω	58.28168
<i>a</i>	2.6320925	Ω	42.56219
<i>e</i>	0.0603681	<i>i</i>	6.22975
<i>P</i>	4.27	<i>H</i>	14.0

Residuals in seconds of arc

1996 03 24	809	0.7+	0.6+	1998 11 25	699	0.8+	1.2+	2000 03 26	699	0.6-	0.2+
1996 03 24	809	0.4-	1.6+	1998 11 25	699	0.5+	1.1+	2000 03 28	704	0.4+	0.7-
1996 03 24	809	0.7-	1.8+	1998 12 14	704	0.8+	0.1-	2000 03 28	704	0.2+	1.3-
1996 03 26	809	1.4+	1.1+	1998 12 14	704	0.5-	1.3-	2000 03 28	704	0.1+	1.5-
1996 03 26	809	1.7+	1.9+	1998 12 14	704	0.8+	0.1-	2000 04 05	704	0.6-	0.1+
1996 03 26	809	1.1+	0.9+	1998 12 14	704	0.0	1.1+	2000 04 05	704	0.3-	0.2-
1998 11 11	704	0.3-	0.5-	1998 12 14	704	0.7-	1.3+	2000 04 05	704	0.1-	0.1-
1998 11 11	704	1.3-	0.1+	2000 01 08	704	0.7-	0.8-	2000 04 05	704	0.4+	0.9-
1998 11 11	704	0.8+	0.7+	2000 01 08	704	(0.7+	2.3-)	2000 04 05	704	0.9+	0.1-
1998 11 11	704	0.2-	1.2+	2000 01 08	704	0.2+	1.8-	2000 04 08	704	0.3-	0.0
1998 11 21	704	0.1+	0.1-	2000 02 11	704	0.6+	0.3-	2000 04 08	704	0.4-	0.4+
1998 11 21	704	1.6-	0.0	2000 02 11	704	0.1+	0.6+	2000 04 08	704	0.4-	0.2-
1998 11 21	704	(3.4-	2.7+)	2000 02 11	704	0.2+	1.3+	2000 04 08	704	0.0	0.4+
1998 11 21	704	(2.7-	2.8+)	2000 03 12	704	0.7+	0.9-	2000 04 08	704	0.2-	0.7+
1998 11 24	704	0.5-	0.6+	2000 03 12	704	0.2+	0.0	2000 04 10	704	0.2-	0.2-
1998 11 24	704	0.6-	0.5-	2000 03 12	704	0.6+	0.6-	2000 04 10	704	0.5-	0.4+
1998 11 24	704	0.2+	1.1-	2000 03 12	704	0.7+	0.9+	2000 04 10	704	0.1-	0.3-
1998 11 24	704	0.1-	0.4-	2000 03 26	699	0.9-	0.2+	2000 04 10	704	0.4-	0.5-
1998 11 24	704	0.7+	0.3-	2000 03 26	699	0.9-	0.2-	2000 04 10	704	0.1-	0.1-
1998 11 25	699	0.3-	1.0+	2000 03 26	699	1.2-	0.2+				

2000 FE₄₃ = 1998 SS₁₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	33.63715	(2000.0)	
<i>n</i>	0.29132864	ω	21.48459
<i>a</i>	2.2536195	Ω	112.61441
<i>e</i>	0.0827824	<i>i</i>	4.53927
<i>P</i>	3.38	<i>H</i>	14.8

Residuals in seconds of arc

1998 09 26	704	0.7-	1.6-	1998 09 27	704	(0.5-	2.4+)	2000 04 05	704	0.4-	0.5-
1998 09 26	704	0.5-	1.1+	1998 09 27	704	0.2+	0.4+	2000 04 05	704	0.2-	0.5+
1998 09 26	704	0.2-	0.8-	2000 03 28	704	(3.1-	2.3+)	2000 04 05	704	0.3-	0.7+
1998 09 26	704	0.0	1.0+	2000 03 28	704	0.5+	0.1-	2000 04 07	699	0.1+	0.4+
1998 09 26	704	0.1+	0.1+	2000 03 28	704	0.1-	0.1-	2000 04 07	699	0.2+	0.1+
1998 09 27	704	1.2+	0.6+	2000 04 05	704	0.3-	0.1+	2000 04 07	699	0.4+	0.6-
1998 09 27	704	0.2-	0.7-	2000 04 05	704	0.2-	0.1+	2000 04 07	699	0.4+	0.6-

2000 FK₄₄ = 7608 P-L = 1998 SH₈₅

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	51.12253	(2000.0)	
<i>n</i>	0.23306739	ω	50.66010
<i>a</i>	2.6150603	Ω	48.41228
<i>e</i>	0.2349673	<i>i</i>	5.17058
<i>P</i>	4.23	<i>H</i>	14.8

Residuals in seconds of arc

1960 10 17	675	0.7+	1.4+	1998 09 27	704	0.3-	1.3+	2000 03 29	704	0.1+	0.3-
1960 10 22	675	1.1-	0.2+	1998 09 27	704	0.6+	1.7+	2000 03 29	704	0.0	0.3-
1960 10 25	675	0.3+	0.4-	1998 09 27	704	0.7-	0.4+	2000 04 05	704	0.5-	0.2-
1960 10 26	675	0.7-	0.4+	2000 03 12	704	0.4+	0.5+	2000 04 05	704	0.0	0.3+
1996 03 24	809	0.6+	0.6-	2000 03 12	704	0.1+	0.5+	2000 04 05	704	0.3-	0.4-
1996 03 24	809	0.5-	0.6+	2000 03 12	704	0.0	1.5-	2000 04 07	699	1.3+	0.7+
1996 03 24	809	0.0	0.2-	2000 03 12	704	0.8-	1.3-	2000 04 07	699	0.9+	0.7+
1998 09 26	704	1.0-	1.9-	2000 03 26	699	0.1+	0.3-	2000 04 07	699	0.2-	0.2+
1998 09 26	704	0.9+	1.7-	2000 03 26	699	0.1+	0.4-	2000 04 07	699	0.8+	0.1-
1998 09 26	704	0.3+	1.5-	2000 03 26	699	0.4-	0.1+	2000 04 10	704	0.2-	0.6+
1998 09 26	704	1.5+	1.3-	2000 03 26	699	0.5-	0.5+	2000 04 10	704	0.1-	0.5+
1998 09 27	704	0.0	0.4+	2000 03 29	704	0.2+	0.0	2000 04 10	704	0.4-	0.6+
1998 09 27	704	0.4-	0.9+	2000 03 29	704	0.6-	0.3-				

2000 FP₄₄ = 1999 CC₁₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	251.41650	(2000.0)	
<i>n</i>	0.17857090	ω	283.37160
<i>a</i>	3.1231698	Ω	21.45106
<i>e</i>	0.1742429	<i>i</i>	16.21878
<i>P</i>	5.52	<i>H</i>	13.0

Residuals in seconds of arc

1999 01 14	704	0.8+	1.5+	2000 03 12	704	0.3-	0.3-	2000 04 08	704	0.5+	0.3-
1999 01 14	704	0.6+	0.1-	2000 03 12	704	0.7+	0.6+	2000 04 08	704	0.2-	0.1-
1999 01 14	704	(3.5+	0.9+)	2000 03 12	704	0.2+	0.5+	2000 04 08	704	0.5-	0.2-
1999 01 14	704	(2.0+	2.6-)	2000 03 29	704	0.1-	0.8-	2000 04 08	704	0.2-	0.4-
1999 01 14	704	0.8-	0.2+	2000 03 29	704	0.6-	0.3-	2000 04 08	704	0.6+	0.1+
1999 02 11	704	(2.2-	2.0-)	2000 03 29	704	0.4-	0.0	2000 04 08	704	0.2+	0.8+
1999 02 11	704	(1.4+	2.4+)	2000 03 29	704	0.2-	0.4-	2000 04 08	704	0.7+	0.3-
1999 02 11	704	0.8+	1.1+	2000 04 05	704	0.0	0.5-	2000 04 08	704	0.1-	0.3+
1999 02 11	704	0.0	0.2+	2000 04 05	704	0.5+	0.3+	2000 04 08	704	0.2+	0.7-
1999 02 11	704	(4.4-	0.8+)	2000 04 05	704	0.1-	0.1+	2000 04 10	704	0.9-	0.6+
1999 02 18	704	0.7+	1.7-	2000 04 07	699	0.2-	0.3-	2000 04 10	704	0.6-	0.2-
1999 02 18	704	0.0	0.2-	2000 04 07	699	0.2-	0.5-	2000 04 10	704	0.3+	0.2-
1999 02 18	704	(0.8-	2.8-)	2000 04 07	699	0.3+	0.2-	2000 04 10	704	0.7-	0.7-
1999 02 18	704	1.9-	1.4-	2000 04 07	704	0.0	0.5-	2000 04 10	704	0.6-	0.3+
2000 03 12	703	0.1+	0.0	2000 04 07	704	0.7+	0.0	2000 04 10	704	0.2-	0.2+
2000 03 12	703	0.0	0.4-	2000 04 07	699	0.1-	0.4-	2000 04 10	704	0.9+	0.7+
2000 03 12	703	0.3+	1.8+	2000 04 07	704	0.2+	0.1+	2000 04 10	704	0.4-	0.7+
2000 03 12	703	0.5-	0.0	2000 04 07	704	0.3+	0.1+				
2000 03 12	704	0.0	0.1+	2000 04 07	704	0.5+	0.5+				

2000 FQ₄₄ = 1993 FU₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams			
<i>M</i>	259.68252	(2000.0)	
<i>n</i>	0.28151808	ω	162.63440
<i>a</i>	2.3056773	Ω	122.36107
<i>e</i>	0.0749275	<i>i</i>	5.13281
<i>P</i>	3.50	<i>H</i>	13.8

Residuals in seconds of arc

1993 03 17	809	0.6-	0.7+	2000 03 29	704	0.1-	0.5+	2000 04 07	699	0.3+	0.6-
1993 03 18	809	0.7+	0.5-	2000 04 05	704	0.0	0.3-	2000 04 07	699	0.3+	0.2-
2000 03 29	704	0.2+	0.0	2000 04 05	704	0.4-	0.0	2000 04 07	699	0.1+	0.1-
2000 03 29	704	0.3+	0.5-	2000 04 05	704	0.3-	1.1+				
2000 03 29	704	0.3-	0.5-	2000 04 07	699	0.0	0.3+				

2000 FS₄₄ = 1998 XB₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	351.08909	(2000.0)	P		Q	
<i>n</i>	0.21388505	ω	158.33546	−0.98611337	+0.11948261	
<i>a</i>	2.7691667	Ω	29.26759	−0.16437863	−0.80119872	
<i>e</i>	0.1254440	<i>i</i>	13.64654	+0.02366604	−0.58634846	
<i>P</i>	4.61	<i>H</i>	13.5	<i>G</i> 0.15	<i>U</i> 3	

Residuals in seconds of arc

1998 12 14	704	0.8−	0.5+	2000 03 12	703	0.3−	0.2+	2000 04 07	699	0.3−	0.1−
1998 12 14	704	1.3+	1.2−	2000 03 12	703	0.1+	0.1+	2000 04 07	699	0.2−	0.3−
1998 12 14	704	1.1−	0.6−	2000 03 12	704	0.0	0.3+	2000 04 07	699	0.5−	0.0
1998 12 14	704	0.5+	0.9+	2000 03 12	704	0.2−	0.3+	2000 04 07	608	0.4−	1.2−
1998 12 14	704	0.8+	0.1−	2000 03 12	704	0.3+	0.7+	2000 04 07	608	0.5−	0.8−
1998 12 17	704	1.1−	1.9+	2000 03 12	704	0.2+	0.3+	2000 04 07	608	1.0−	1.6−
1998 12 17	704	0.1−	0.6−	2000 03 29	704	0.6+	0.4+	2000 04 08	704	0.2+	0.0
1998 12 17	704	0.7+	0.2+	2000 03 29	704	0.0	0.6+	2000 04 08	704	0.0	0.2+
1998 12 17	704	0.6−	0.3−	2000 03 29	704	0.6+	1.2+	2000 04 08	704	0.5+	0.3−
2000 01 07	704	0.3−	0.2−	2000 03 29	704	0.4+	0.9+	2000 04 08	704	0.6+	0.4−
2000 01 07	704	0.1−	0.2+	2000 04 05	704	0.3+	0.2+	2000 04 08	704	0.7+	0.3−
2000 01 07	704	0.4−	0.4−	2000 04 05	704	0.4−	0.1−	2000 04 13	704	1.3+	1.7+
2000 01 07	704	0.1+	0.6−	2000 04 05	704	0.2+	0.3−	2000 04 13	704	0.2+	0.3−
2000 01 07	704	1.4−	1.6−	2000 04 05	704	0.1+	0.2−	2000 04 13	704	0.6−	0.2−
2000 03 12	703	0.0	0.3+	2000 04 05	704	0.1+	0.1+	2000 04 13	704	0.2+	0.1+
2000 03 12	703	0.2−	0.1+	2000 04 07	699	0.4−	0.3−	2000 04 13	704	0.1+	0.8+

2000 FT₄₄ = 1991 VT₁₀ = 1998 XC₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	297.40891	(2000.0)	P		Q	
<i>n</i>	0.28487877	ω	183.14208	−0.38818098	+0.91605746	
<i>a</i>	2.2875082	Ω	64.03586	−0.84307353	−0.30882086	
<i>e</i>	0.0829958	<i>i</i>	6.43528	−0.37221303	−0.25586796	
<i>P</i>	3.46	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1991 11 05	691	0.3−	0.2−	1998 12 15	910	0.0	0.2+	2000 03 29	704	0.6+	0.5+
1991 11 05	691	0.2−	0.1+	1998 12 15	910	0.1+	0.1−	2000 04 05	704	1.0+	0.4−
1991 11 05	691	0.1−	0.3+	1998 12 15	910	0.0	0.7−	2000 04 05	704	0.4−	0.5+
1991 11 08	691	0.3−	0.3+	1998 12 16	910	0.1+	0.2+	2000 04 05	704	0.7+	0.2−
1991 11 08	691	0.1−	0.2−	1998 12 16	910	0.2−	0.2+	2000 04 05	704	0.7+	0.1−
1991 11 08	691	0.3+	0.3−	1998 12 16	910	0.0	0.3+	2000 04 07	699	0.7−	0.6+
1991 11 08	691	0.2−	0.2−	2000 03 29	704	0.2−	0.3+	2000 04 07	699	0.8−	0.4−
1991 11 08	691	0.7+	0.1−	2000 03 29	704	0.2−	0.1+	2000 04 07	699	0.5−	0.8−
1991 11 08	691	0.3+	0.1+	2000 03 29	704	0.4+	0.2+	2000 04 07	699	0.7−	0.1−

2000 FX₄₄ = 1998 XF₄₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	224.02875	(2000.0)	P		Q	
<i>n</i>	0.30369052	ω	273.69534	+0.88927570	+0.45018393	
<i>a</i>	2.1920404	Ω	59.56486	−0.37358820	+0.81683236	
<i>e</i>	0.2926459	<i>i</i>	5.37501	−0.26385713	+0.36072057	
<i>P</i>	3.25	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1998 12 14	704	1.6−	1.1−	2000 03 26	699	0.8−	0.5−	2000 04 08	704	0.5+	0.9+
1998 12 14	704	1.0+	0.8−	2000 03 29	704	0.9+	0.8−	2000 04 08	704	1.2−	0.5−
1998 12 14	704	0.9−	1.4+	2000 03 29	704	0.7−	0.2+	2000 04 08	704	0.6+	0.2+
1998 12 14	704	1.3+	0.5+	2000 03 29	704	0.4+	0.8−	2000 04 08	704	0.3−	0.7+
1998 12 14	704	0.8−	0.2−	2000 04 05	704	0.0	0.3−	2000 04 08	704	0.4−	0.0
1998 12 17	704	0.7+	1.2+	2000 04 05	704	0.1−	0.8+	2000 04 08	704	0.4+	0.0
1998 12 17	704	0.8+	0.2+	2000 04 05	704	0.3−	0.7+	2000 04 10	704	0.0	0.3−
1998 12 17	704	0.5−	0.0	2000 04 07	699	0.6−	0.3−	2000 04 10	704	0.1−	0.1+
1998 12 17	704	0.1+	1.0−	2000 04 07	699	0.3−	1.1+	2000 04 10	704	1.0−	0.8−
1998 12 17	704	0.1−	0.1−	2000 04 07	699	0.7+	0.3−	2000 04 10	704	0.6−	0.5+
2000 03 12	703	0.3−	1.4−	2000 04 07	704	0.5−	0.5−	2000 04 10	704	0.4+	0.5−

2000 03 12	703	0.3−	0.5+	2000 04 07	704	0.4−	0.1−	2000 04 10	704	0.3−	0.2−
2000 03 12	703	1.7+	0.9+	2000 04 07	699	0.7+	0.0	2000 04 10	704	0.1−	0.2−
2000 03 12	703	0.3+	0.5+	2000 04 07	704	0.1+	0.2−	2000 04 10	704	0.8+	0.3+
2000 03 26	699	0.7−	0.2−	2000 04 07	704	0.1−	0.5+	2000 04 10	704	0.6+	0.3+
2000 03 26	699	0.5−	0.2+	2000 04 08	704	1.4+	1.6−	2000 04 10	704	0.7+	0.7+
2000 03 26	699	1.0−	0.1−	2000 04 08	704	0.5+	0.4+				

2000 FC₄₆ = 1999 CY₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	182.24481	(2000.0)	P		Q	
<i>n</i>	0.17308250	ω	282.60427	+0.98299933	−0.09541543	
<i>a</i>	3.1888489	Ω	83.02766	+0.15275451	+0.89902985	
<i>e</i>	0.0866952	<i>i</i>	9.09308	−0.10187431	+0.42736544	
<i>P</i>	5.69	<i>H</i>	12.5	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1999 02 10	704	0.4−	0.3−	2000 03 29	704	0.0	0.5+	2000 04 08	704	0.4+	0.0
1999 02 10	704	1.0−	0.8−	2000 03 29	704	0.1−	0.1+	2000 04 08	704	0.5−	0.1+
1999 02 10	704	0.3−	0.5−	2000 03 29	704	0.3−	0.2+	2000 04 08	704	1.2−	0.3+
1999 02 10	704	0.3+	0.3−	2000 03 29	704	0.2+	0.2+	2000 04 08	704	0.9−	0.9−
1999 02 10	704	(3.3−	0.1+)	2000 04 05	704	0.3+	0.3−	2000 04 13	704	0.8−	1.2+
1999 02 13	704	0.4−	0.8+	2000 04 05	704	0.7+	0.1−	2000 04 13	704	0.7+	0.8+
1999 02 13	704	(2.0+	0.2−)	2000 04 05	704	0.4+	0.2−	2000 04 13	704	0.6+	0.9−
1999 02 13	704	0.8+	0.2+	2000 04 05	704	0.4+	0.3−	2000 04 13	704	0.5−	0.4−
1999 02 13	704	0.8+	1.0+	2000 04 05	704	0.2−	0.2−				
2000 03 29	704	0.0	0.2−	2000 04 08	704	0.9+	0.1+				

2000 FO₄₆ = 1998 VE₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	200.54902	(2000.0)	P		Q	
<i>n</i>	0.31179664	ω	312.64499	+0.97495393	+0.21618388	
<i>a</i>	2.1538813	Ω	34.96487	−0.16788510	+0.86942588	
<i>e</i>	0.1036607	<i>i</i>	5.23053	−0.14587470	+0.44425574	
<i>P</i>	3.16	<i>H</i>	15.6	<i>G</i> 0.15	<i>U</i> 4	

Residuals in seconds of arc

1997 05 14	691	0.0	0.9−	1998 11 18	704	1.7−	0.6+	2000 04 06	699	0.8−	0.4−
1997 05 14	691	0.1−	0.0	2000 03 29	704	0.5−	0.7−	2000 04 06	704	0.1+	0.1−
1997 05 14	691	0.3−	0.0	2000 03 29	704	0.9−	0.1+	2000 04 06	699	0.9+	0.4−
1998 10 19	699	0.4+	0.6−	2000 03 29	704	0.4−	0.1−	2000 04 06	704	0.5−	0.0
1998 10 19	699	0.2−	0.1+	2000 03 29	704	0.4−	0.8−	2000 04 06	704	0.3+	0.3−
1998 10 19	699	1.0−	0.6+	2000 03 29	704	0.5+	0.3+	2000 04 06	699	0.7−	0.1+
1998 11 10	699	1.0−	0.6−	2000 04 02	699	0.4+	0.3−	2000 04 06	704	0.2+	0.2+
1998 11 10	699	1.3+	0.2−	2000 04 02	699	0.6−	0.0	2000 04 06	699	0.3−	0.2+
1998 11 10	699	0.5+	0.4−	2000 04 02	699	0.2−	0.0	2000 04 06	704	0.1+	0.1+
1998 11 11	704	0.3−	0.3−	2000 04 02	699	0.0	0.6−	2000 04 08	704	0.9+	0.7+
1998 11 11	704	0.1+	1.0+	2000 04 05	704	0.5+	0.1−	2000 04 08	704	1.4+	0.1+
1998 11 11	704	(2.2−	2.0−)	2000 04 05	704	0.3−	0.6+	2000 04 08	704	0.0	1.3+
1998 11 18	704	0.7+	1.0−	2000 04 05	704	0.3+	0.5+	2000 04 08	704	0.1+	0.1+
1998 11 18	704	0.2+	0.1−	2000 04 05	704	0.3+	0.0				
1998 11 18	704	1.1+	0.6+	2000 04 05	704	0.3−	0.1+				

2000 FY₄₆ = 1997 LB₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	275.98734	(2000.0)	P		Q	
<i>n</i>	0.30555911	ω	193.85481	+0.32739209	+0.93442318	
<i>a</i>	2.1830946	Ω	95.39996	−0.85294777	+0.35612485	
<i>e</i>	0.1974803	<i>i</i>	8.09801	−0.40656429	+0.00532970	
<i>P</i>	3.23	<i>H</i>	15.2	<i>G</i> 0.15	<i>U</i> 5	

Residuals in seconds of arc

1997 06 08	809	1.5−	0.3−	2000

2000 APR. 18

M.P.C. 40253

1997 06 09	809	1.2+	1.4+	2000 04 05	704	0.2−	0.0	2000 04 13	704	0.2−	0.6+
1997 06 09	809	(2.4+	1.8+)	2000 04 05	704	0.6−	0.3−	2000 04 13	704	0.7−	0.4+
2000 03 29	704	0.2+	0.2−	2000 04 05	704	0.6+	0.8−	2000 04 13	704	0.0	0.1−
2000 03 29	704	0.0	0.6+	2000 04 08	704	0.1+	0.5−	2000 04 13	704	1.0+	0.6−
2000 03 29	704	0.0	0.2−	2000 04 08	704	1.0−	0.9−				

2000 FC₄₇ = 1993 ML₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	295.94647	(2000.0)		P	Q		
<i>n</i>	0.26848478	ω	199.45265	+0.05975381	+0.98454307		
<i>a</i>	2.3797040	Ω	74.24424	−0.89168935	+0.12678007		
<i>e</i>	0.2331030	<i>i</i>	9.84953	−0.44868650	−0.12083770		
<i>P</i>	3.67	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1993 06 21	675	0.5+	0.2+	2000 03 29	704	0.2+	0.3+	2000 04 08	704	0.5−	0.2−
1993 06 21	675	0.5+	0.6+	2000 04 05	704	0.1−	0.0	2000 04 08	704	0.2−	0.4+
1993 06 22	675	1.4+	1.4−	2000 04 05	704	0.3+	0.4+	2000 04 08	704	0.1−	0.0
1993 06 22	675	1.7+	0.2+	2000 04 05	704	0.2−	0.2−	2000 04 13	704	0.6+	0.2−
2000 03 29	704	0.2−	0.4+	2000 04 05	704	0.5−	0.3−	2000 04 13	704	0.2+	0.1−
2000 03 29	704	0.0	0.0	2000 04 05	704	0.6−	0.9−	2000 04 13	704	0.5+	0.7+
2000 03 29	704	0.1+	0.1+	2000 04 08	704	0.1−	0.0	2000 04 13	704	0.2+	0.2−
2000 03 29	704	0.0	0.2−	2000 04 08	704	0.3−	0.3−	2000 04 13	704	0.5+	0.3+

2000 FN₄₇ = 1988 VC₇ = 1997 TW₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	228.77528	(2000.0)		P	Q		
<i>n</i>	0.21649592	ω	283.68906	+0.83316460	+0.54982481		
<i>a</i>	2.7468581	Ω	42.99802	−0.46774550	+0.75792053		
<i>e</i>	0.0767122	<i>i</i>	4.99757	−0.29504390	+0.35106858		
<i>P</i>	4.55	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1988 11 03	033	0.3−	0.3+	1999 01 19	704	0.0	1.2−	2000 04 06	704	0.1−	0.1+
1988 11 03	033	0.2+	0.4−	1999 01 19	704	0.1+	0.6+	2000 04 06	704	0.1+	0.2+
1988 11 04	033	0.2−	0.1+	1999 01 19	704	(6.7−	0.4+)	2000 04 06	704	0.2+	0.1−
1995 03 01	046	0.7+	0.4−	2000 03 29	704	0.1+	0.0	2000 04 06	704	0.1−	0.0
1995 03 01	046	0.2−	0.4−	2000 03 29	704	0.2−	1.5+	2000 04 07	704	0.5−	0.3+
1995 03 01	046	0.4−	0.1−	2000 03 29	704	0.2−	0.6−	2000 04 07	704	0.0	0.5+
1997 10 03	327	0.6−	0.9+	2000 03 29	704	0.5+	0.3+	2000 04 07	704	0.4−	0.4+
1997 10 03	327	0.7−	0.6+	2000 03 29	704	0.2+	0.1−	2000 04 07	704	0.3+	0.4+
1997 10 03	327	0.7−	0.8+	2000 04 05	704	0.0	0.5+	2000 04 07	704	0.1+	0.7+
1997 10 11	327	0.3+	0.1+	2000 04 05	704	0.2+	0.8+	2000 04 10	704	0.4+	1.0−
1997 10 11	327	0.3+	0.2+	2000 04 05	704	0.2+	0.2+	2000 04 10	704	0.1−	0.4+
1997 10 11	327	0.0	0.7+	2000 04 05	704	0.4+	0.1+	2000 04 10	704	0.0	0.2−
1999 01 19	704	0.1−	0.2−	2000 04 05	704	0.2+	0.1−	2000 04 10	704	0.5+	0.1−
1999 01 19	704	0.0	1.5+	2000 04 06	704	0.2+	0.3+	2000 04 10	704	0.4−	0.5−

2000 FV₄₇ = 1994 CS₁₇ = 1995 OK₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	250.68715	(2000.0)		P	Q		
<i>n</i>	0.18055261	ω	180.85634	+0.72455139	+0.67245163		
<i>a</i>	3.1002749	Ω	135.59572	−0.63105691	+0.73541734		
<i>e</i>	0.1556136	<i>i</i>	12.47175	−0.27711452	+0.08348741		
<i>P</i>	5.46	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1994 02 08	809	0.4+	0.5−	1995 07 25	691	0.1−	0.3−	2000 04 05	704	1.2−	0.3+
1994 02 08	809	1.1−	0.7−	1999 01 22	691	0.0	0.1+	2000 04 08	704	0.3−	0.6−
1994 02 08	809	0.7−	0.4+	1999 01 22	691	0.0	0.2+	2000 04 08	704	0.1+	0.4+
1994 02 10	809	(3.2+	0.2+)	1999 01 22	691	(0.2−	2.5+)	2000 04 08	704	0.7+	0.2+
1994 02 10	809	1.1+	0.8+	2000 03 29	704	0.6−	0.1+	2000 04 08	704	0.4+	0.1−
1994 02 10	809	0.1−	1.2−	2000 03 29	704	0.1−	0.5−	2000 04 08	704	0.0	0.4+
1995 07 24	691	0.1−	0.2−	2000 03 29	704	0.3−	0.0	2000 04 13	704	0.1−	0.0
1995 07 24	691	0.5+	0.3−	2000 03 29	704	0.8+	0.0	2000 04 13	704	0.9+	0.1−

1995 07 24	691	0.1−	0.7+	2000 04 05	704	0.4+	0.3+	2000 04 13	704	0.9+	0.7−
1995 07 25	691	0.2−	0.4−	2000 04 05	704	0.0	0.2+	2000 04 13	704	0.1−	1.6+
1995 07 25	691	0.3−	0.3−	2000 04 05	704	1.0−	0.2−				

2000 FA₄₈ = 1998 YL₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	226.40417	(2000.0)		P	Q		
<i>n</i>	0.28269375	ω	207.01371	+0.91586109	+0.37647427		
<i>a</i>	2.2992803	Ω	130.16138	−0.32743930	+0.90147485		
<i>e</i>	0.1968801	<i>i</i>	10.51899	−0.23234020	+0.21356547		
<i>P</i>	3.49	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 02 18	691	0.5−	0.2+	2000 03 29	704	0.4−	0.7+	2000 04 06	704	0.1−	0.2−
1996 02 18	691	0.3+	0.1+	2000 03 29	704	0.0	0.8−	2000 04 06	704	0.3+	0.4−
1996 02 18	691	0.3+	0.1+	2000 03 29	704	0.0	0.9−	2000 04 06	704	0.6+	0.2+
1998 12 22	552	0.5−	0.6+	2000 04 05	704	0.4+	0.2−	2000 04 06	704	0.5+	0.1+
1998 12 22	552	0.7−	1.0+	2000 04 05	704	0.2−	0.1+	2000 04 13	704	0.6−	0.4−
1998 12 23	552	0.6+	0.2−	2000 04 05	704	0.2−	0.0	2000 04 13	704	0.1−	0.7+
1998 12 23	552	0.3+	1.0−	2000 04 05	704	0.1+	0.4−	2000 04 13	704	0.2−	0.8+
1998 12 23	552	0.3+	0.6−	2000 04 05	704	0.6−	0.4−	2000 04 13	704	0.3+	1.2+
2000 03 29	704	0.2−	0.7−	2000 04 06	704	0.1+	0.5+				

2000 FB₄₈ = 1999 CT₁₀₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	189.85467	(2000.0)		P	Q		
<i>n</i>	0.22797923	ω	226.02917	+0.98365959	−0.11767600		
<i>a</i>	2.6538265	Ω	140.14223	+0.14790877	+0.95970251		
<i>e</i>	0.2557103	<i>i</i>	12.27529	−0.10264896	+0.25519297		
<i>P</i>	4.32	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1997 07 27	910	0.1−	0.3+	1999 02 12	704	0.2−	0.6+	2000 04 05	704	0.5+	0.1+
1997 07 27	910	0.0	0.4+	1999 02 12	704	1.3−	0.0	2000 04 05	704	0.6+	0.1+
1997 07 27	910	0.1−	0.4+	1999 02 16	704	0.5−	1.0+	2000 04 05	704	0.3+	0.5−
1998 12 24	699	0.9−	0.3+	1999 02 16	704	0.6+	0.8+	2000 04 05	704	0.3+	0.7−
1998 12 24	699	0.5+	0.1−	1999 02 16	704	0.3+	0.5−	2000 04 05	704	0.2+	0.1−
1998 12 24	699	0.3−	0.0	2000 01 16	120	1.8−	0.4−	2000 04 08	704	0.3−	0.0
1999 01 14	699	0.4+	0.8−	2000 01 16	120	0.1+	1.5−	2000 04 08	704	0.1+	0.0
1999 01 14	699	0.2−	0.0	2000 03 07	704	0.3−	0.3+	2000 04 08	704	0.1+	0.2−
1999 01 14	699	0.2+	1.2−	2000 03 07	704	0.6−	1.4+	2000 04 08	704	0.1+	0.6−
1999 02 11	699	1.1+	0.0	2000 03 07	704	0.2−	0.6+	2000 04 08	704	0.4−	0.1−
1999 02 11	699	0.1+	0.3+	2000 03 29	704	0.2−	0.0	2000 04 13	704	0.3+	0.1−
1999 02 11	699	0.2+	0.2+	2000 03 29	704	0.1+	0.3+	2000 04 13	704	0.7+	0.7−
1999 02 12	704	0.3−	0.2+	2000 03 29	704	0.2−	0.5+	2000 04 13	704	0.2+	0.2+
1999 02 12	704	0.3+	0.1−	2000 03 29	704	0.2+	1.1+	2000 04 13	704	0.3−	0.9−
1999 02 12	704	0.0	0.7+	2000 03 29	704	0.6−	1.6+	2000 04 13	704	0.4+	0.7−

2000 FG₄₈ = 1998 UJ₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	62.43110	(2000.0)		P	Q		
<i>n</i>	0.26253737	ω	346.41586	−0.35014986	−0.93622390		
<i>a</i>	2.4155088	Ω	124.07299	+0.86271069	−0.33466738		
<i>e</i>	0.1409420	<i>i</i>	2.05223	+0.36486346	−0.10715664		
<i>P</i>	3.75	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 10 28	704	1.5+	1.3−	2000 03 14	703	1.9−	0.2+	2000 04 05	704	0.0	0.2−
1998 10 28	704	0.8+	0.8−	2000 03 14	703	0.7−	1.0+	2000 04 06	704	0.1+	0.2+
1998 10 28	704	0.1−	0.1−	2000 03 29	704	0.7+	0.7−	2000 04 06	704	0.0	0.2−
1998 10 28	704	0.7−	0.5+	2000 03 29	704	0.2+	0.1+	2000 04 06	704	0.0	0.8+
1998 10 29	704	0.0	0.5−	2000 03 29	704	0.6+	2.0−	2000 04 06	704	0.0	0.0
1998 10 29	704	0.2−	1.4+	2000 03 29	704	0.2+	1.0−	2000 04 06	704	0.0	0.4+
1998 10 29	704	0.0	0.3−	2000 03 29	704	0.3+	0.6−	2000 04 07	704	0.6−	0.8+
1998 10 29	704	1.2−	0.6+	2000 04 05	704	0.1+	0.4+	2000 04 07	704	0.3+	0.4+

M.P.C. 40254

1998 10 29	704	(2.6−	2.0−)	2000 04 05	704	0.5+	1.5−	2000 04 07	704	0.8−	1.1+
2000 03 14	703	1.3+	1.5+	2000 04 05	704	0.3−	1.6−	2000 04 07	704	0.1+	0.4+
2000 03 14	703	0.1−	0.2+	2000 04 05	704	0.1−	0.0				

**2000 FQ₄₈ = 1950 OF = 1951 XC₁ = 1956 UA = 1978 ND₄ = 1979 SU₁₀
= 1985 VC₂ = 1990 UP₆ = 1999 DK₅**

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	243.42697		(2000.0)		P		Q
<i>n</i>	0.17176509	ω	98.32787		+0.82317858		+0.51325972
<i>a</i>	3.2051335	Ω	231.16536		−0.56006395		+0.80428002
<i>e</i>	0.2151494	<i>i</i>	18.15994		+0.09330273		+0.29949642
<i>P</i>	5.74	<i>H</i>	11.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1950 07 16	760	0.7+	0.1+	1999 02 17	704	1.5+	0.5+	2000 03 30	704	0.4+	0.0
1950 07 16	760	1.2+	0.7−	1999 02 17	704	0.5+	1.2−	2000 03 30	704	0.1−	0.2−
1951 12 04	711	(3.4+	1.6+)	Y 1999 02 17	704	1.5+	0.9−	2000 03 30	704	0.3−	0.3+
1956 10 27	760	1.0−	1.7+	1999 02 17	704	0.1+	0.7−	2000 03 30	704	0.4−	0.5−
1956 10 27	760	0.0	0.6+	1999 02 17	704	0.4+	0.6−	2000 03 30	704	0.4+	0.3−
1978 07 10	095	2.5−	2.4−	1999 02 19	704	0.1+	0.2−	2000 04 06	704	0.4+	0.3+
1979 09 29	095	0.2−	0.5+	1999 02 19	704	0.7+	0.4+	2000 04 06	704	0.4+	0.3+
1985 11 07	675	1.2−	0.2−	1999 02 19	704	0.3−	0.2+	2000 04 06	704	0.1+	0.0
1985 11 07	675	1.4−	0.9−	1999 02 19	704	0.1−	0.0	2000 04 06	704	0.4+	0.0
1990 10 20	413	1.1+	0.8−	1999 02 19	704	0.2−	0.5+	2000 04 06	704	0.0	0.1+
1990 10 20	413	1.0+	1.5+	2000 03 14	704	0.1−	0.4+	2000 04 12	608	0.1−	0.7+
1999 01 23	704	0.1−	0.4−	2000 03 14	704	1.0−	0.5−	2000 04 12	608	0.1−	0.6+
1999 01 23	704	0.6−	0.1−	2000 03 14	704	0.2−	0.3+	2000 04 12	608	0.2−	0.7+
1999 01 23	704	0.9−	0.2−	2000 03 14	704	0.5+	0.3−				
1999 01 23	704	0.1+	0.6−	2000 03 14	704	0.1−	2.0+				

2000 FU₄₈ = 1998 VC₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	38.94269		(2000.0)		P		Q
<i>n</i>	0.26848580	ω	223.36213		−0.79688140		−0.59401196
<i>a</i>	2.3796979	Ω	279.87521		+0.58032402		−0.70196785
<i>e</i>	0.0655979	<i>i</i>	6.41862		+0.16794068		−0.39292611
<i>P</i>	3.67	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3+	0.2−	2000 03 30	704	1.5−	0.1−	2000 04 10	704	0.1−	0.8+
1998 11 10	704	0.9−	0.9−	2000 03 30	704	1.0+	0.6−	2000 04 10	704	0.1+	0.1+
1998 11 10	704	0.4+	1.1+	2000 03 30	704	0.2−	0.0	2000 04 10	704	0.6−	0.7+
1998 11 11	704	0.4+	0.4−	2000 03 30	704	0.3−	0.9−	2000 04 10	704	0.2−	0.5+
1998 11 11	704	0.2+	0.7−	2000 03 30	704	0.6+	1.5−	2000 04 10	704	0.3−	0.4+
1998 11 11	704	1.1+	0.8−	2000 04 06	704	0.3+	0.6+	2000 04 12	608	0.2−	0.2−
1998 11 11	704	(1.4−	2.2−)	2000 04 06	704	0.1+	0.1−	2000 04 12	608	0.3+	0.3−
1998 11 11	704	0.3−	0.2−	2000 04 06	704	0.2+	0.8+	2000 04 12	608	0.2+	0.4−
1998 11 18	905	0.0	1.7+	2000 04 06	704	0.0	0.4+				
1998 11 18	905	1.2−	0.6+	2000 04 06	704	0.5+	0.3−				

2000 FX₄₈ = 1998 VL₄₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	8.63791		(2000.0)		P		Q
<i>n</i>	0.25559993	ω	284.62711		−0.99754980		−0.06315623
<i>a</i>	2.4590209	Ω	251.75881		+0.06989057		−0.91880398
<i>e</i>	0.1283338	<i>i</i>	1.81584		−0.00311643		−0.38962873
<i>P</i>	3.86	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1998 11 10	699	0.4−	0.6+	2000 03 30	704	0.2−	0.7+	2000 04 06	704	0.1−	0.2−
1998 11 10	699	0.7+	0.2−	2000 04 02	699	0.1+	0.2+	2000 04 06	704	0.3+	0.1+
1998 11 10	699	0.2−	0.7−	2000 04 02	699	0.1−	0.2+	2000 04 06	704	0.2+	0.1−
1998 11 11	704	0.7+	0.3−	2000 04 02	699	0.4+	0.1+	2000 04 06	704	0.1+	0.4+
1998 11 11	704	0.5+	0.4−	2000 04 02	699	0.4+	0.2−	2000 04 06	704	0.1+	0.8+
1998 11 11	704	1.3−	1.0+	2000 04 05	704	0.1−	0.1−	2000 04 07	704	0.0	0.1−

2000 APR. 18

2000 03 30	704	0.0	0.9−	2000 04 05	704	0.2−	0.1+	2000 04 07	704	0.1−	0.3−
2000 03 30	704	0.1−	0.2−	2000 04 05	704	0.2−	0.1+	2000 04 07	704	0.3+	0.3−
2000 03 30	704	0.4+	0.3+	2000 04 05	704	0.1−	0.3+	2000 04 07	704	0.3−	0.5−
2000 03 30	704	0.6−	0.5−	2000 04 05	704	0.1+	0.6+	2000 04 07	704	0.3−	0.6−

2000 FB₄₉ = 1999 CW₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	331.09542		(2000.0)		P		Q
<i>n</i>	0.17689409	ω	239.28752		−0.61231840		+0.78982314
<i>a</i>	3.1428754	Ω	352.64539		−0.59771698		−0.49168181
<i>e</i>	0.0889157	<i>i</i>	16.00396		−0.51749454		−0.36664479
<i>P</i>	5.57	<i>H</i>	12.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 19	704	0.1−	1.2+	1999 02 13	704	0.1−	1.6−	2000 04 06	704	0.0	0.6+
1999 01 19	704	0.4+	1.4+	1999 02 13	704	1.0−	0.4−	2000 04 06	704	0.1+	0.5−
1999 01 19	704	0.4+	1.5+	1999 02 13	704	0.9−	0.4+	2000 04 06	704	0.7−	0.2−
1999 01 19	704	1.1+	0.6+	1999 02 13	704	0.7−	0.8−	2000 04 06	704	0.2−	1.2−
1999 01 19	704	0.2−	0.5+	1999 02 13	704	0.6−	0.5+	2000 04 06	704	0.6−	0.3+
1999 01 23	699	0.5+	1.5−	2000 01 28	704	0.0	0.9+	2000 04 11	608	0.1+	0.3−
1999 01 23	699	0.4+	0.2+	2000 01 28	704	0.6−	0.8−	2000 04 11	608	0.2+	0.4−
1999 01 23	699	(0.5+	2.3+)	2000 01 28	704	0.4+	0.5+	2000 04 11	608	0.3+	0.3−
1999 02 10	704	0.3+	0.7−	2000 03 30	704	0.7−	0.2−	2000 04 16	608	0.6+	0.5−
1999 02 10	704	0.1+	0.5−	2000 03 30	704	0.1−	0.9+	2000 04 16	608	1.0+	0.2−
1999 02 10	704	1.3+	0.5−	2000 03 30	704	0.9−	1.0+	2000 04 16	608	1.0+	0.6−
1999 02 10	704	0.9−	0.2+	2000 03 30	704	(1.1+	2.7+)				
1999 02 10	704	0.2+	0.8−	2000 03 30	704	0.0	1.5+				

2000 FE₄₉ = 1991 EP₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	339.06544		(2000.0)		P		Q
<i>n</i>	0.22669066	ω	275.94830		−0.79140787		+0.61103543
<i>a</i>	2.6638737	Ω	301.71747		−0.55234936		−0.72713135
<i>e</i>	0.1400153	<i>i</i>	1.18463		−0.26188502		−0.31291484
<i>P</i>	4.35	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1991 03 11	809	0.4−	0.5−	2000 03 30	704	0.2+	0.2+	2000 04 06	704	0.0	0.4−
1991 03 11	809	0.2−	0.5−	2000 03 30	704	0.5−	0.9+	2000 04 07	704	0.2−	0.0
1991 03 11	809	0.0	0.8−	2000 03 30	704	0.6+	0.8+	2000 04 07	704	0.2−	0.3−
1991 03 13	809	0.0	0.6+	2000 03 30	704	0.2+	0.3+	2000 04 07	704	0.0	0.4−
1991 03 13	809	0.1+	0.3+	2000 03 30	704	0.4+	0.2+	2000 04 07	704	0.1−	0.1−
1991 03 13	809	0.2+	0.3+	2000 04 05	704	0.3−	0.4−	2000 04 07	704	0.1−	0.3−
1995 02 02	691	0.8+	0.3+	2000 04 05	704	0.1−	0.1−	2000 04 10	704	0.4+	0.1+
1995 02 02	691	0.5−	0.2+	2000 04 05	704	0.2−	0.1+	2000 04 10	704	0.3−	0.0
1995 02 02	691	0.2−	0.0	2000 04 05	704	0.2−	0.1+	2000 04 10	704	0.4+	0.2−
1998 12 16	704	0.0	1.6−	2000 04 05	704	0.3+	0.8+	2000 04 10	704	0.2+	0.1+
1998 12 16	704	0.4−	1.1+	2000 04 06	704	0.1+	0.1−	2000 04 10	704	0.0	0.4−
1998 12 16	704	1.2+	0.5−	2000 04 06	704	0.3−	0.2−				
1998 12 16	704	0.8−	0.8+	2000 04 06	704	0.2−	0.2−				

2000 FG₄₉ = 1998 XY₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	260.90171		(2000.0)		P		Q
<i>n</i>	0.26945475	ω	57.89975		+0.66739584		+0.74428258
<i>a</i>	2.3739896	Ω	253.98788		−0.69172482		+0.60711935
<i>e</i>	0.2325016	<i>i</i>	1.49184		−0.27586149		+0.27829756
<i>P</i>	3.66	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 10 27	691	0.0	0.0	2000 04 03	699	0.5−	0.3−	2000 04 06	699	0.4−	0.2−
1998 10 27	691	0.1−	0.4−	2000 04 03	699	1.1−	0.7+	2000 04 06	704	0.3+	0.2−
1998 10 27	691	0.1+	0.2−	2000 04 03	699	0.2−	0.1−	2000 04 07	704	0.3+	0.4−
1998 12 10	691	1.3+	0.0	2000 04 03	699	0.3−	0.4+	2000 04 07	704	0.2+	0.7−
1998 12 10	691	1.0+	0.3−	2000 04 05	704	0.1+	0.4−	2000 04 07	704	0.5−	0.2−

2000 APR. 18

M.P.C. 40255

1998 12 10	691	1.1+	0.5−	2000 04 05	704	0.3+	0.4−	2000 04 07	704	0.0	0.4+
1998 12 16	691	1.3−	0.8+	2000 04 05	704	0.3+	0.6−	2000 04 08	704	1.6−	0.2+
1998 12 16	691	0.8−	0.4+	2000 04 05	704	0.7+	0.4−	2000 04 08	704	0.4−	0.4−
1998 12 16	691	1.2−	0.2−	2000 04 05	704	(0.0	2.9+)	2000 04 08	704	0.4+	0.4+
2000 03 27	699	0.3−	0.4−	2000 04 06	699	0.4−	0.2−	2000 04 08	704	0.3−	0.7+
2000 03 27	699	0.5−	0.6+	2000 04 06	704	0.1+	0.1−	2000 04 08	704	0.3−	0.1+
2000 03 27	699	0.4+	1.6+	2000 04 06	704	0.5+	0.1−	2000 04 10	704	0.3+	0.7−
2000 03 27	699	0.8−	0.0	2000 04 06	699	0.0	0.2−	2000 04 10	704	0.7+	0.1−
2000 03 30	704	0.1−	0.9+	2000 04 06	704	0.1−	0.2−	2000 04 10	704	0.4+	0.4−
2000 03 30	704	1.2+	0.8+	2000 04 06	699	0.6−	0.2+	2000 04 10	704	0.3+	0.4−
2000 03 30	704	1.4+	0.9+	2000 04 06	704	0.3+	0.5−				

2000 FL₄₉ = 1990 SE₁₆ = 1996 TK₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	289.53614	(2000.0)		P	Q		
<i>n</i>	0.17407139	ω	352.07057	+0.16711490	+0.98265011		
<i>a</i>	3.1767603	Ω	287.52230	−0.89988771	+0.11868419		
<i>e</i>	0.1024615	<i>i</i>	4.83917	−0.40283336	+0.14252304		
<i>P</i>	5.66	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 09 17	675	0.5+	1.2−	1996 10 05	809	1.3−	0.2−	2000 03 30	704	(2.4+	1.9+)
1990 09 17	675	0.9−	0.1−	2000 03 14	704	0.3+	0.5+	2000 04 06	704	0.7+	0.3−
1990 09 20	675	1.1−	0.4+	2000 03 14	704	0.2+	0.1+	2000 04 06	704	0.9+	0.0
1990 09 20	675	1.4+	0.9+	2000 03 14	704	0.6−	0.1+	2000 04 06	704	0.2+	0.2+
1996 10 04	809	1.7+	1.6+	2000 03 14	704	0.5−	0.0	2000 04 06	704	0.7+	0.5+
1996 10 04	809	0.6+	0.6−	2000 03 14	704	0.4−	0.2−	2000 04 06	704	1.8−	0.7+
1996 10 04	809	0.2+	0.6+	2000 03 30	704	0.1+	0.2−	2000 04 11	608	0.6−	0.9−
1996 10 05	809	0.5−	0.3−	2000 03 30	704	0.8+	1.0+	2000 04 11	608	0.5−	0.7−
1996 10 05	809	0.7−	1.0−	2000 03 30	704	1.4+	0.2+	2000 04 11	608	0.8−	0.7−

2000 FD₅₀ = 1998 WV₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	26.23895	(2000.0)		P	Q		
<i>n</i>	0.22283741	ω	237.88876	−0.79417798	−0.57024487		
<i>a</i>	2.6944946	Ω	266.51137	+0.60391437	−0.70218403		
<i>e</i>	0.1378842	<i>i</i>	12.14550	+0.06759272	−0.42633130		
<i>P</i>	4.42	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 11 16	704	1.1+	0.6−	1998 11 19	704	0.6−	0.2−	2000 04 06	704	0.3−	0.5−
1998 11 16	704	1.2+	0.4+	1998 11 19	704	0.7+	1.6−	2000 04 06	704	0.1+	0.3+
1998 11 16	704	1.0−	1.5+	1998 11 19	704	1.2−	0.4+	2000 04 06	704	0.9+	0.2+
1998 11 16	704	(1.1−	2.5+)	2000 03 31	704	0.6−	0.9−	2000 04 13	699	0.6−	0.4−
1998 11 16	704	0.2−	0.5−	2000 03 31	704	0.6+	0.2+	2000 04 13	699	0.1+	0.7+
1998 11 19	704	0.7+	1.7+	2000 03 31	704	0.4−	1.2+	2000 04 13	699	0.5+	0.0
1998 11 19	704	0.8−	0.9−	2000 04 06	704	0.5−	0.7−	2000 04 13	699	0.2+	0.1−

2000 FU₅₀ = 1997 SZ₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	282.80842	(2000.0)		P	Q		
<i>n</i>	0.22344056	ω	62.34939	−0.01785498	+0.99974161		
<i>a</i>	2.6896434	Ω	206.63875	−0.92803703	−0.02180705		
<i>e</i>	0.0692371	<i>i</i>	1.79808	−0.37205977	+0.00641665		
<i>P</i>	4.41	<i>H</i>	16.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 09 28	691	0.1−	0.0	2000 03 29	691	0.5−	0.1−	2000 04 06	704	0.7−	1.5+
1997 09 28	691	0.1+	0.2−	2000 04 05	691	0.2−	0.5−	2000 04 06	704	1.2+	0.2+
1997 09 28	691	0.1−	0.1−	2000 04 05	704	0.8+	0.5+	2000 04 06	704	0.6+	0.5+
1997 10 03	691	0.3+	0.0	2000 04 05	691	0.3−	0.4−	2000 04 06	704	1.7+	1.0−
1997 10 03	691	0.1−	0.0	2000 04 05	691	0.3−	0.4−	2000 04 06	704	1.2+	1.3−
1997 10 03	691	0.0	0.2+	2000 04 05	704	0.1+	0.3+	2000 04 11	691	0.6−	0.0
2000 03 29	691	0.5−	0.2−	2000 04 05	704	0.3−	1.4+	2000 04 11	691	0.7−	0.4−
2000 03 29	691	0.4−	0.5−	2000 04 05	704	0.3−	0.5+	2000 04 11	691	0.9−	0.3−

2000 FA₅₁ = 1993 SO₉ = 1995 CA₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	178.15466	(2000.0)		P	Q		
<i>n</i>	0.22995139	ω	4.29585	+0.99035076	−0.13855113		
<i>a</i>	2.6386312	Ω	3.67220	+0.12571451	+0.88908534		
<i>e</i>	0.1454148	<i>i</i>	2.67913	+0.05832015	+0.43626923		
<i>P</i>	4.29	<i>H</i>	16.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1993 09 22	809	0.0	0.6−	1995 02 05	691	0.3−	0.3−	2000 04 05	704	0.8+	1.1+
1993 09 22	809	0.1−	0.1+	1995 02 05	691	0.2+	0.4−	2000 04 05	704	0.4+	0.9+
1993 09 22	809	1.0−	0.2−	2000 03 29	691	0.1−	0.0	2000 04 05	704	0.1+	1.2+
1993 09 24	809	1.6+	1.0+	2000 03 29	691	0.6−	0.5−	2000 04 11	691	0.1+	0.8−
1993 09 24	809	0.2+	0.4−	2000 03 29	691	0.3−	0.1−	2000 04 11	691	0.1+	0.2−
1993 09 24	809	0.0	1.4−	2000 04 05	691	0.6−	0.1−	2000 04 11	691	0.6+	0.6−
1995 02 04	691	0.2−	0.0	2000 04 05	704	0.3+	0.0	2000 04 11	691	0.7−	0.9−
1995 02 04	691	0.5+	0.3+	2000 04 05	691	0.5−	0.4−	2000 04 11	691	0.0	0.3−
1995 02 04	691	0.0	0.0	2000 04 05	704	0.5+	0.0	2000 04 11	691	0.4−	0.5−
1995 02 05	691	0.4−	0.0	2000 04 05	691	0.4−	0.1−				

2000 GJ = 1997 SR₂₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	290.15322	(2000.0)		P	Q		
<i>n</i>	0.27381261	ω	102.10980	+0.25492499	+0.96695944		
<i>a</i>	2.3487336	Ω	182.66102	−0.90034693	+0.23674400		
<i>e</i>	0.2062754	<i>i</i>	2.02520	−0.35268777	+0.09456066		
<i>P</i>	3.60	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 09 30	691	0.2−	0.1−	1997 11 02	691	0.2−	0.7+	2000 04 05	704	0.3+	0.2+
1997 09 30	691	0.2+	0.3−	2000 04 02	684	0.6+	0.3+	2000 04 05	704	0.4−	0.0
1997 09 30	691	0.0	0.2+	2000 04 02	684	0.5+	0.9−	2000 04 07	699	0.8+	1.0+
1997 10 06	691	0.1+	0.2−	2000 04 03	684	0.8−	0.5+	2000 04 07	699	0.4−	0.1−
1997 10 06	691	0.1+	0.1+	2000 04 03	684	0.0	0.3+	2000 04 07	699	0.4−	0.7−
1997 10 06	691	0.0	0.0	2000 04 05	704	0.7+	0.2+	2000 04 07	699	0.2−	0.3−
1997 11 02	691	(5.4+	4.2−)	2000 04 05	704	0.7−	0.9−				
1997 11 02	691	(1.7−	5.1−)	2000 04 05	704	0.1+	0.5+				

2000 GV = 1997 WL₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	293.40241	(2000.0)		P	Q		
<i>n</i>	0.20383663	ω	69.15143	+0.03353333	+0.99940701		
<i>a</i>	2.8594415	Ω	202.77448	−0.92431193	+0.02803554		
<i>e</i>	0.0844292	<i>i</i>	1.15753	−0.38016176	+0.01999114		
<i>P</i>	4.84	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 09 07	910	0.3−	1.3+	1997 11 20	691	0.9+	0.4+	2000 04 05	704	0.2+	0.1+
1997 09 07	910	0.3−	1.2+	1997 11 25	691	0.4−	0.8+	2000 04 05	704	0.2+	0.1−
1997 09 07	910	0.2−	1.1+	1997 11 25	691	0.5−	0.6+	2000 04 06	704	0.4+	0.6+
1997 10 29	704	0.4−	0.1+	1997 11 25	691	0.5−	0.5+	2000 04 06	704	0.3+	0.0
1997 10 29	704	0.5+	0.3−	1999 01 07	691	0.1+	0.6+	2000 04 06	704	0.0	0.2+
1997 10 29	704	(2.4+	0.0)	1999 01 07	691	0.1−	0.7+	2000 04 06	704	0.2+	0.4+
1997 10 29	704	0.3+	0.6−	1999 01 07	691	0.2−	0.5+	2000 04 06	704	0.3+	0.3+
1997 10 29	704	1.2+	0.4−	1999 01 18	704	0.9+	1.9−	2000 04 07	860	0.1+	0.5−
1997 10 30	704	(4.8+	0.0)	1999 01 18	704	0.5−	1.0−	2000 04 07	860	0.8−	0.9−
1997 10 30	704	(3.0+	0.3−)	1999 01 18	704	0.4−	0.1+	2000 04 07	860	1.6−	1.4+
1997 10 30	704	(2.7+	0.8+)	1999 01 18	704	(4.0−	0.8−)	2000 04 07	699	0.2+	0.7+
1997 10 30	704	(2.8+	0.3−)	2000 03 14	704	0.4+	0.4−	2000 04 07	699	0.2+	1.0+
1997 10 31	704	0.1+	0.2−	2000 03 14	704	0.8+	0.2+	2000 04 07	704	0.0	0.4+
1997 10 31	704	0.7+	0.0	2000 03 14	704	0.6+	1.2−	2000 04 07	699	0.2+	0.3+
1997 10 31	704	1.5−	0.0	2000 03 14	704	0.7+	0.5+	2000 04 07	704	0.1+	0.7+
1997 10 31	704	0.6−	0.7+	2000 03 14	704	0.7−	0.1+	2000 04 07	699	0.3−	0.6+
1997 10 31	704	0.5−	0.2−	2000 03 14	704	0.0	0.2−	2000 04 07	704	0.3−	0.6+
1997 11 03	704	0.0	0.6−	2000 04 02	691	0.2+	0.0	2000 04 07	704	0.3−	0.4+

1997 11 03	704	0.1+	0.1+	2000 04 02	691	0.2+	0.1-	2000 04 07	704	0.5-	0.6+
1997 11 03	704	1.8+	0.8+	2000 04 02	691	0.0	0.1-	2000 04 08	704	0.0	0.1+
1997 11 03	704	0.9+	0.7+	2000 04 03	691	0.5-	0.2-	2000 04 08	704	0.3-	0.8+
1997 11 03	704	0.4+	0.4-	2000 04 03	691	0.3-	0.2-	2000 04 08	704	0.7-	0.2+
1997 11 06	704	1.9-	0.2+	2000 04 03	691	0.3-	0.2-	2000 04 08	704	0.1-	0.5-
1997 11 06	704	1.0-	0.1+	2000 04 05	860	0.5+	0.1-	2000 04 08	704	0.0	0.2-
1997 11 06	704	0.7-	0.3-	2000 04 05	860	0.4+	0.0	2000 04 11	860	0.2-	0.0
1997 11 06	704	0.8-	0.2-	2000 04 05	860	0.9+	0.6-	2000 04 11	860	0.1+	1.7-
1997 11 06	704	0.7-	0.0	2000 04 05	704	0.5+	0.0	2000 04 11	608	0.2+	0.4+
1997 11 20	691	1.0+	0.2+	2000 04 05	704	0.1+	0.3+	2000 04 11	608	0.2+	0.3+
1997 11 20	691	0.8+	0.2+	2000 04 05	704	0.2+	0.2+	2000 04 11	608	0.4+	0.4+

2000 GY = 1996 HU₂₂ = 1998 XB₉₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		102.57996		(2000.0)		P		Q	
<i>n</i>	0.23730242	<i>ω</i>	253.17033	-0.00918527	-0.99963119				
<i>a</i>	2.5838538	<i>Ω</i>	197.41590	+0.94688352	-0.00047926				
<i>e</i>	0.0355757	<i>i</i>	4.89818	+0.32144552	-0.02715257				
<i>P</i>	4.15	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1996 04 20	809	(1.0+	2.3+)	1998 12 15	704	0.6-	1.6+	2000 04 05	704	0.0	0.2-
1996 04 20	809	0.2-	1.5+	1998 12 15	704	1.3-	0.3-	2000 04 05	704	0.4+	0.0
1996 04 20	809	(0.2-	2.2+)	1998 12 22	704	0.9+	0.0	2000 04 05	704	0.2-	0.1-
1996 04 20	691	1.8-	0.6-	1998 12 22	704	0.9-	0.6-	2000 04 05	704	0.4+	0.1+
1996 04 20	691	1.9-	0.7-	1998 12 22	704	1.5+	0.5-	2000 04 06	704	0.3+	0.4+
1996 04 20	691	1.6-	0.9-	1998 12 22	704	0.8-	0.0	2000 04 06	704	0.1-	0.1-
1996 04 21	809	(2.0-	0.9+)	2000 04 02	691	0.0	0.5-	2000 04 06	704	0.0	0.0
1996 04 21	809	0.0	0.7+	2000 04 02	691	0.1+	0.6-	2000 04 06	704	0.6+	0.2+
1996 04 21	809	0.1+	1.2+	2000 04 02	691	0.1-	0.4-	2000 04 06	704	0.1+	0.1+
1996 05 19	809	(2.3+	0.9-)	2000 04 03	691	0.5-	0.2-	2000 04 07	699	0.0	0.6-
1996 05 19	809	1.4+	0.8-	2000 04 03	691	0.4-	0.2-	2000 04 07	699	0.1+	0.1+
1996 05 19	809	0.7+	0.0	2000 04 03	691	0.4-	0.1-	2000 04 07	704	0.3+	0.6+
1996 05 23	809	2.0+	0.6-	2000 04 04	699	0.4-	0.3+	2000 04 07	699	0.3-	0.1+
1996 05 23	809	0.9+	0.2-	2000 04 04	699	0.3+	0.5+	2000 04 07	704	0.1-	0.7+
1996 05 23	809	0.3+	0.2-	2000 04 04	699	0.4-	0.5+	2000 04 07	699	0.2-	0.2-
1998 12 15	704	0.9+	0.8-	2000 04 04	699	0.1+	0.1+	2000 04 07	704	0.3+	0.1-
1998 12 15	704	0.3+	0.4+	2000 04 05	704	0.1+	0.1-				

2000 GU₁ = 1996 TC₅₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		258.14888		(2000.0)		P		Q	
<i>n</i>	0.17532545	<i>ω</i>	81.78322	+0.73437858	+0.67330142				
<i>a</i>	3.1615938	<i>Ω</i>	235.84504	-0.65637776	+0.67232986				
<i>e</i>	0.0746709	<i>i</i>	5.94791	-0.17278983	+0.30763251				
<i>P</i>	5.62	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	6		

Residuals in seconds of arc

1996 10 04	809	0.0	1.1+	2000 04 03	428	1.3-	0.3-	2000 04 08	704	1.3+	0.9+
1996 10 04	809	1.8+	1.3+	2000 04 03	428	0.8-	1.2+	2000 04 08	704	0.3-	0.5+
1996 10 04	809	0.3+	0.1+	2000 04 06	704	0.4-	0.2+	2000 04 08	704	0.9+	0.7+
1996 10 05	809	0.9-	0.3-	2000 04 06	704	0.1-	0.3-	2000 04 08	704	0.3-	0.1-
1996 10 05	809	0.6-	1.3-	2000 04 06	704	0.5-	1.3-	2000 04 08	428	0.7+	0.3-
1996 10 05	809	0.6-	0.9-	2000 04 06	704	0.5-	0.2-	2000 04 08	428	0.6+	0.6-
2000 04 01	428	0.2+	0.6+	2000 04 06	704	0.4-	0.8-				
2000 04 01	428	0.7+	0.1+	2000 04 08	704	0.3+	0.2-				

2000 GZ₁ = 1993 VB₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		352.09249		(2000.0)		P		Q	
<i>n</i>	0.22565593	<i>ω</i>	183.63344	-0.88212344	+0.46217384				
<i>a</i>	2.6720108	<i>Ω</i>	24.54440	-0.42645055	-0.70176368				
<i>e</i>	0.1891884	<i>i</i>	12.63292	-0.19999543	-0.54214673				
<i>P</i>	4.37	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1993 11 09	691	0.1+	1.1+	1998 12 14	704	1.2-	0.5-	2000 04 05	678	0.1-	0.5-
1993 11 09	691	0.3-	1.2+	1998 12 14	704	(6.6-	1.4-)	2000 04 05	704	0.4+	0.9+
1993 11 09	691	0.1-	1.3+	1998 12 17	704	0.1+	0.4+	2000 04 05	704	0.3+	1.4+
1993 11 09	691	0.4-	1.0+	1998 12 17	704	1.1+	0.4-	2000 04 05	704	0.4+	1.5+
1993 11 09	691	0.5-	1.0+	1998 12 17	704	0.8+	1.2-	2000 04 05	704	0.9+	1.9+
1993 11 09	691	0.6-	0.9+	1998 12 17	704	(0.8+	2.6-)	2000 04 06	704	0.6+	0.0
1993 11 10	691	0.8-	1.1+	1998 12 17	704	(0.8-	5.8-)	2000 04 06	704	0.3+	0.2-
1993 11 10	691	0.9-	1.1+	2000 01 08	699	0.2-	0.3+	2000 04 06	704	0.2+	0.7-
1993 11 10	691	1.0-	1.0+	2000 01 08	699	0.5+	0.5+	2000 04 06	704	0.1+	0.1+
1993 11 11	691	1.0-	1.2+	2000 01 08	699	0.4+	0.4-	2000 04 06	704	0.7-	0.2-
1993 11 11	691	1.1-	1.3+	2000 03 01	703	0.5+	0.0	2000 04 07	678	0.2+	1.0+
1993 11 11	691	1.4-	1.1+	2000 03 01	703	0.4+	0.4+	2000 04 07	678	0.2-	0.4+
1993 12 13	691	0.3-	0.2+	2000 03 01	703	0.2+	0.2+	2000 04 08	704	0.6+	0.4+
1993 12 13	691	0.1-	0.3-	2000 03 01	703	0.6+	0.1+	2000 04 08	704	0.1+	0.1+
1993 12 13	691	0.2+	0.4-	2000 03 14	704	0.7+	1.1+	2000 04 08	704	0.1+	0.5+
1998 11 16	704	0.4+	0.3-	2000 03 14	704	0.8+	0.2+	2000 04 08	704	0.2+	0.0
1998 11 16	704	0.8+	0.6-	2000 03 14	704	0.5+	0.8+	2000 04 08	704	0.0	0.3-
1998 11 16	704	0.8+	0.6-	2000 03 14	704	1.3+	0.3+	2000 04 11	608	(0.4+	3.7-)
1998 11 16	704	1.7-	1.0-	2000 03 14	704	0.6+	0.7-	2000 04 11	608	(0.3+	3.7-)
1998 12 14	704	0.2-	1.4-	2000 04 04	678	0.8-	0.4+	2000 04 11	608	(0.1-	3.3-)
1998 12 14	704	0.3+	1.0+	2000 04 04	678	1.1-	0.5+				
1998 12 14	704	0.7-	0.7+	2000 04 05	678	1.1-	0.7-				

2000 GL₂ = 1981 UV₃ = 1998 BZ₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		316.06252		(2000.0)		P		Q	
<i>n</i>	0.18609435	<i>ω</i>	25.88731	-0.27106421	+0.95466255				
<i>a</i>	3.0384161	<i>Ω</i>	228.64884	-0.90915803	-0.29591611				
<i>e</i>	0.0572675	<i>i</i>	9.43518	-0.31615799	+0.03245106				
<i>P</i>	5.30	<i>H</i>	13.7	<i>G</i>	0.15	<i>U</i>	3		

Residuals in seconds of arc

1981 10 30	381	0.9-	0.7+	1998 01 30	691	0.7-	0.2-	2000 04 08	704	0.1-	0.3-
1981 10 30	381	0.7+	1.7+	1998 01 30	691	0.1+	0.0	2000 04 08	704	0.3-	0.2-
1997 11 29	704	0.6+	0.5+	2000 04 03	428	0.6-	0.1+	2000 04 08	704	1.0-	0.5+
1997 11 29	704	0.9+	0.9-	2000 04 03	428	0.2+	0.6+	2000 04 08	704	0.8-	0.1-
1997 11 29	704	1.0+	0.2+	2000 04 04	428	0.9+	0.5-	2000 04 08	704	0.8-	0.1-
1997 11 29	704	0.3-	0.3+	2000 04 04	428	0.2+	0.0	2000 04 08	428	0.2+	0.3-
1997 11 29	704	0.6-	0.5+	2000 04 06	704	0.7+	0.4+	2000 04 08	428	0.7+	0.2+
1998 01 22	691	0.1-	0.6-	2000 04 06	704	0.2-	0.5-	2000 04 12	608	0.1+	0.2-
1998 01 22	691	0.3-	0.0	2000 04 06	704	0.0	1.3+	2000 04 12	608	0.4+	0.0
1998 01 22	691	0.3-	0.6-	2000 04 06	704	0.1-	0.4+	2000 04 12	608	1.2+	0.3-
1998 01 30	691	0.8-	0.5-	2000 04 06	704	0.6-	0.4+				

2000 GN₂ = 1991 XR₂ = 1999 AN₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		105.53739		(2000.0)		P		Q	
<i>n</i>	0.27215475	<i>ω</i>	249.91509	+0.17086889	-0.98509644				
<i>a</i>	2.3582623	<i>Ω</i>	190.30609	+0.94016203	+0.16899708				
<i>e</i>	0.0785770	<i>i</i>	6.32779	+0.29478666	+0.03201535				
<i>P</i>	3.62	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1991 12 07	809	1.3+	0.5-	2000 04 05	727	0.2-	1.6+	2000 04 06	704	0.4+	0.1+
1991 12 07	809	0.1+	0.7-	2000 04 05	727	0.4+	0.0	2000 04 06	704	0.3+	0.1+
1991 12 07	809	1.0-	0.4-	2000 04 05	727	0.3+	0.2-	2000 04 06	704	0.1+	0.3+
1991 12 09	809	0.2+	0.3-	2000 04 05	704	0.3+	0.2-	2000 04 07	704	0.4+	0.2+
1991 12 09	809	0.1-	0.1+	2000 04 05	704	0.5+	0.2-	2000 04 07	704	0.1+	0.1+
1991 12 09	809	0.5-	0.2-	2000 04 05	704	0.3+	0.0	2000 04 07	704	0.1+	1.0+
1999 01 10	699	0.0	0.7+	2000 04 05	704	0.5+	0.1-	2000 04 10	727	0.9-	0.3+
1999 01 10	699	0.9-	0.8+	2000 04 05	704	0.4+	0.2+	2000 04 10	727	0.2-	0.0
1999 01 10	699	0.6-	0.4+	2000 04 06	727	0.8-	0.6-	2000 04 10	727	0.2-	0.4+
1999 01 15	699	0.4+	0.4+	2000 04 06	727	0.8-	0.1-	2000 04 14	727	0.8-	0.3-
1999 01 15	699	0.4+	0.2+	2000 04 06	727	0.0	0.5-	2000 04 14	727	0.5-	0.6-
1999 01 15	699	0.3+	0.4+	2000 04 06	704	0.5+	0.2-	2000 04 14	727	0.0	0.6-

2000 APR. 18

M.P.C. 40257

2000 GX₃ = 1998 XQ₃₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	68.93963		(2000.0)	P	Q
<i>n</i>	0.23803668	ω	71.27228	-0.50848031	-0.84235883
<i>a</i>	2.5785375	Ω	50.61696	+0.67707252	-0.51924438
<i>e</i>	0.1359671	<i>i</i>	13.35619	+0.53199678	-0.14428054
<i>P</i>	4.14	<i>H</i>	14.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	0.4+	0.5-	1998 12 17	704	0.8-	0.2-	2000 04 06	596	0.1+	0.0
1998 12 14	704	0.4+	1.0-	1998 12 17	704	0.5+	0.3+	2000 04 13	596	0.2-	0.2+
1998 12 14	704	0.3-	0.4-	2000 04 01	596	0.6-	0.4-	2000 04 13	596	0.3+	0.5-
1998 12 14	704	0.1+	0.6-	2000 04 01	596	0.7-	0.4+	2000 04 13	596	0.6+	0.6-
1998 12 17	704	0.2+	0.1+	2000 04 01	596	0.2+	0.1+	2000 04 13	596	0.8-	0.2+
1998 12 17	704	0.2+	0.6+	2000 04 06	596	0.1-	1.1+				
1998 12 17	704	0.7-	1.6+	2000 04 06	596	1.1+	0.5-				

2000 GB₄ = 1969 ER₁ = 1979 OZ₈ = 1982 BU₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	49.46477		(2000.0)	P	Q
<i>n</i>	0.22511887	ω	350.29633	-0.72025430	-0.68246136
<i>a</i>	2.6762589	Ω	145.58646	+0.65031559	-0.72668943
<i>e</i>	0.1378366	<i>i</i>	12.71776	+0.24150236	-0.07854277
<i>P</i>	4.38	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1969 03 13	095	0.0	1.4+	2000 04 02	399	1.2-	1.1+	2000 04 09	699	0.6-	0.2+
1979 07 24	413	0.5-	1.3-	2000 04 04	704	1.2+	1.0-	2000 04 09	699	0.2+	0.0
1979 07 26	675	0.7+	0.8-	2000 04 04	704	0.9+	0.6-	2000 04 13	704	0.1+	0.2+
1979 07 28	413	0.2-	1.0-	2000 04 04	704	1.0+	1.0-	2000 04 13	704	0.0	0.3+
1982 01 20	033	0.3+	1.2-	2000 04 04	704	0.1-	0.7-	2000 04 13	704	0.2+	0.1-
1982 01 20	033	0.2+	1.1-	2000 04 06	399	(1.3-	2.5+)	2000 04 13	704	0.0	0.6+
1982 01 21	033	0.6-	0.3-	2000 04 06	399	1.7-	0.1-	2000 04 13	704	0.6+	1.2+
1982 01 21	033	0.1-	1.4-	2000 04 09	699	0.4-	0.1+				
2000 04 02	399	0.4-	0.2+	2000 04 09	699	0.0	0.0				

2000 GF₄ = 1998 UP₄₄ = 1998 VE₂₃

Id. B. G. Marsden

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	105.82484		(2000.0)	P	Q
<i>n</i>	0.26425818	ω	106.01446	+0.33078582	-0.94370582
<i>a</i>	2.4050111	Ω	324.66906	+0.86566581	+0.30353815
<i>e</i>	0.1222072	<i>i</i>	0.02507	+0.37577048	+0.13146832
<i>P</i>	3.73	<i>H</i>	15.3	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 10 18	699	0.9-	1.1+	2000 04 05	704	0.6-	0.1-	2000 04 07	704	0.2+	0.0
1998 10 18	699	1.1+	0.8+	2000 04 05	704	0.4-	0.6-	2000 04 07	704	0.0	0.5+
1998 10 18	699	1.3+	0.8-	2000 04 05	704	0.0	0.2+	2000 04 07	704	0.1-	0.3+
1998 10 19	691	0.5-	0.3-	2000 04 06	704	0.4+	0.3-	2000 04 07	704	0.1+	0.3+
1998 10 19	691	0.6-	0.3-	2000 04 06	704	0.2-	0.2+	2000 04 07	704	0.7+	0.3-
1998 10 19	691	0.5-	0.2-	2000 04 06	704	0.3+	0.2+	2000 04 07	704	1.3-	0.7+
1998 11 10	704	0.1+	0.1-	2000 04 06	704	0.1-	0.1-	2000 04 07	704	0.5+	0.1+
1998 11 10	704	0.4-	0.6+	2000 04 06	704	0.1-	0.4+	2000 04 07	704	0.2+	1.1-
1998 11 10	704	0.1+	0.4+	2000 04 06	704	0.1-	0.0	2000 04 08	704	0.9+	0.2+
1998 11 10	704	0.8-	0.5-	2000 04 06	046	0.0	0.1-	2000 04 08	704	0.4-	0.1+
1998 11 10	704	0.1-	1.7-	2000 04 06	046	0.3-	0.4-	2000 04 08	704	0.1+	0.4-
1998 11 11	704	0.7+	0.9+	2000 04 06	046	0.4+	0.2-	2000 04 08	704	0.3+	0.3-
1998 11 11	704	0.4-	0.5+	2000 04 06	046	0.1-	0.1-	2000 04 08	118	0.3-	0.1-
1998 11 11	704	1.0-	0.9-	2000 04 06	046	0.2+	0.3-	2000 04 08	118	0.5+	0.0
1998 11 11	704	0.2+	0.3-	2000 04 06	046	0.5+	0.0	2000 04 08	118	0.5+	1.2-
1998 11 11	699	0.0	0.0	2000 04 06	118	0.0	0.4+	2000 04 13	691	0.7-	0.1-
1998 11 11	704	1.3+	0.6+	2000 04 06	118	0.1-	0.2-	2000 04 13	691	0.8-	0.1-
1998 11 11	699	1.0+	1.1+	2000 04 06	118	0.3-	0.9+	2000 04 13	691	0.6-	0.2-
1998 11 11	699	0.6-	0.8-	2000 04 06	118	0.4+	0.6+	2000 04 13	118	0.3+	0.0

2000 04 05	704	0.3-	0.2+	2000 04 07	704	0.1+	0.4+	2000 04 13	118	0.2+	0.3-
2000 04 05	704	0.1-	0.0	2000 04 07	704	0.4-	0.3+	2000 04 13	118	0.4+	0.5+

2000 GH₄ = 1998 SH₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	1.24987		(2000.0)	P	Q
<i>n</i>	0.37287693	ω	11.47269	-0.99675492	+0.05862767
<i>a</i>	1.9117263	Ω	171.30250	-0.06085250	-0.99736256
<i>e</i>	0.0606878	<i>i</i>	21.39280	+0.05269341	-0.04278702
<i>P</i>	2.64	<i>H</i>	16.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 25	704	0.6-	1.1+	2000 04 03	704	0.2+	0.0	2000 04 12	608	0.6-	0.1-
1998 09 25	704	0.8+	1.1-	2000 04 03	704	0.6+	0.4-	2000 04 12	608	0.6-	0.3-
1998 09 25	704	0.6+	0.5-	2000 04 03	704	0.2+	0.4-	2000 04 12	608	0.4-	0.2-
1998 09 25	704	0.5+	0.1-	2000 04 03	704	0.4-	0.2+	2000 04 14	704	(2.3-	1.6+)
1998 09 27	704	(2.8-	0.4+)	2000 04 03	704	0.3+	0.2-	2000 04 14	704	1.1-	0.5+
1998 09 27	704	0.9-	0.3+	2000 04 08	704	0.0	0.2-	2000 04 14	704	0.3+	0.6-
1998 09 27	704	1.3-	0.1+	2000 04 08	704	0.0	0.4+	2000 04 14	704	1.2+	0.5+
1998 09 27	704	0.9+	0.2+	2000 04 08	704	0.3+	0.7+				

2000 GM₄ = 1993 FH₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	49.39930		(2000.0)	P	Q
<i>n</i>	0.28517365	ω	279.83747	-0.32096562	-0.94495190
<i>a</i>	2.2859310	Ω	189.63434	+0.94708780	-0.32006934
<i>e</i>	0.2788450	<i>i</i>	22.34081	+0.00240205	-0.06798183
<i>P</i>	3.46	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1993 03 21	809	0.3-	0.3+	1998 12 15	910	1.2-	0.6-	2000 04 07	699	0.7+	0.3+
1993 03 22	809	0.3+	0.0	1998 12 15	910	0.8-	0.8-	2000 04 07	699	0.2-	0.2+
1998 08 24	704	1.4+	0.5+	1998 12 15	910	0.8-	0.2-	2000 04 08	704	0.1-	0.1-
1998 08 24	704	1.0+	0.2+	2000 03 14	703	0.3+	0.7+	2000 04 08	704	0.1+	0.1+
1998 08 24	704	0.8+	1.2+	2000 03 14	703	0.5+	0.7+	2000 04 08	704	0.2+	0.3-
1998 08 24	704	(6.0-	0.1+)	2000 03 14	703	0.1+	0.1+	2000 04 08	704	0.0	0.2-
1998 08 27	704	0.0	1.2-	2000 03 14	703	0.3-	0.8+	2000 04 08	704	0.1+	0.7+
1998 08 27	704	(3.1+	1.3+)	2000 04 04	704	0.2-	0.5+	2000 04 13	704	(2.9+	0.1+)
1998 08 27	704	1.8+	0.7-	2000 04 04	704	0.1-	0.4+	2000 04 13	704	0.2+	0.2-
1998 08 27	704	1.3-	0.1-	2000 04 04	704	0.1+	1.1-	2000 04 13	704	0.3-	1.7-
1998 09 19	704	0.2-	0.4+	2000 04 04	704	0.1-	0.2-	2000 04 13	704	0.3+	0.1-
1998 09 19	704	0.4-	0.4+	2000 04 04	704	1.4-	0.0	2000 04 13	704	0.6-	0.6-
1998 09 19	704	0.6-	0.4+	2000 04 07	699	0.1-	0.1+				
1998 09 19	704	0.8-	0.3+	2000 04 07	699	0.5+	0.2-				

2000 GQ₆ = 1998 XG₉₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	120.42702		(2000.0)	P	Q
<i>n</i>	0.20710046	ω	273.92052	+0.45952503	-0.88787403
<i>a</i>	2.8293196	Ω	148.69101	+0.83124652	+0.42092293
<i>e</i>	0.0295625	<i>i</i>	2.50648	+0.31283535	+0.18575145
<i>P</i>	4.76	<i>H</i>	13.3	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1995 03 02	691	0.2-	0.0	2000 03 01	703	0.3-	0.2-	2000 04 06	704	0.4-	0.3-
1995 03 02	691	0.0	0.0	2000 03 01	703	0.6+	0.3+	2000 04 06	704	0.0	0.5-
1995 03 02	691	0.0	0.6-	2000 03 10	704	0.8+	0.2+	2000 04 06	699	0.4-	0.2+
1998 11 23	704	1.2+	1.2+	2000 03 10	704	0.2+	0.1+	2000 04 06	704	0.1+	0.5-
1998 11 23	704	0.3-	0.3-	2000 03 10	704	0.7+	0.3+	2000 04 06	699	0.5-	0.0
1998 11 23	704	0.8-	1.9+	2000 03 10	704	0.4+	0.3+	2000 04 06	704	0.1-	1.0-
1998 11 23	704	(5.6-	1.4+)	2000 03 10	704	0.1+	0.0	2000 04 06	699	0.0	0.3+
1998 12 15	704	0.2+	0.1-	2000 04 04	704	0.1+	0.1-	2000 04 06	704	0.4-	0.9-
1998 12 15	704	0.5-	0.2+	2000 04 04	704	0.1+	1.3+	2000 04 10	704	0.4-	0.1+
1998 12 15	704	0.0	0.4+	2000 04 04	704	0.2-	0.3+	2000 04 10	704	0.1+	0.0
1998 12 15	704	0.3-	0.3-	2000 04 04	704	0.3-	0.2-	2000 04 10	704	0.3-	0.4+

1998 12 15	704	0.0	0.6−	2000 04 04	704	0.3−	0.3−	2000 04 10	704	0.1−	0.0
1998 12 22	704	0.5+	0.4+	2000 04 05	704	0.2+	0.2+	2000 04 10	704	0.3−	0.1+
1998 12 22	704	0.3+	0.2−	2000 04 05	704	0.5+	0.2+	2000 04 10	704	0.3+	0.3+
1998 12 22	704	0.6+	1.1−	2000 04 05	704	0.3+	0.1−	2000 04 10	704	0.4−	0.2+
1998 12 22	704	0.7−	0.9−	2000 04 05	704	0.3+	0.2−	2000 04 10	704	0.2−	0.7+
2000 03 01	703	0.4−	0.4−	2000 04 05	704	0.4+	0.4−	2000 04 10	704	0.1−	0.3+
2000 03 01	703	0.2+	0.4−	2000 04 06	699	0.2+	0.1+	2000 04 10	704	0.0	0.4+

2000 GS₇ = 1998 VF₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	72.15342	(2000.0)		P	Q		
<i>n</i>	0.21993075	ω	37.46464	−0.10866512	−0.96692383		
<i>a</i>	2.7181834	Ω	59.87410	+0.83525988	−0.21467864		
<i>e</i>	0.2597629	<i>i</i>	15.47381	+0.53901097	+0.13773664		
<i>P</i>	4.48	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1998 11 10	704	0.3+	0.0	2000 04 04	704	0.9+	1.0−	2000 04 07	704	0.2−	0.7−
1998 11 10	704	1.1−	0.3+	2000 04 04	704	0.6+	0.1+	2000 04 07	704	0.4−	0.3+
1998 11 10	704	0.2−	0.3+	2000 04 05	704	0.0	0.3−	2000 04 08	704	0.2−	0.6+
1998 11 10	704	0.7−	0.6+	2000 04 05	704	0.1−	1.0−	2000 04 08	704	1.8+	0.4+
1998 11 10	704	1.1−	0.4+	2000 04 05	704	0.4+	0.1−	2000 04 08	704	1.5+	1.4+
1998 11 11	704	0.4+	0.6−	2000 04 05	704	0.2+	0.1−	2000 04 09	699	0.1−	0.4+
1998 11 11	704	0.0	0.0	2000 04 05	704	0.2+	0.5+	2000 04 09	699	0.9−	0.6+
1998 11 11	704	0.8−	0.2−	2000 04 05	704	0.2+	0.2+	2000 04 09	699	0.4−	0.3+
1998 12 08	699	0.6+	0.5+	2000 04 05	704	0.1+	0.1−	2000 04 09	699	0.7−	0.3+
1998 12 08	699	1.1+	0.0	2000 04 05	704	0.0	0.6+	2000 04 13	704	0.5+	0.4−
1998 12 08	699	1.1+	0.1+	2000 04 05	704	0.8−	0.7+	2000 04 13	704	1.7−	0.6+
2000 02 08	704	0.2−	0.4−	2000 04 06	704	0.6−	0.9−	2000 04 13	704	1.2+	0.8+
2000 02 08	704	0.1−	0.6−	2000 04 06	704	0.1+	0.3+	2000 04 13	704	0.7+	0.1+
2000 02 08	704	0.0	1.4−	2000 04 06	704	0.2−	0.2+	2000 04 13	608	0.5−	1.0−
2000 04 04	704	0.1−	0.8−	2000 04 06	704	0.4−	1.2+	2000 04 13	608	0.4−	1.1−
2000 04 04	704	0.4+	0.7+	2000 04 07	704	0.2+	0.5+	2000 04 13	608	0.4−	1.2−
2000 04 04	704	0.2−	0.1−	2000 04 07	704	0.7+	1.1+				

2000 GQ₁₃ = 1996 FN₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	7.19908	(2000.0)		P	Q		
<i>n</i>	0.23792303	ω	331.39384	−0.97891462	−0.19914263		
<i>a</i>	2.5793586	Ω	197.29886	+0.20408588	−0.94403720		
<i>e</i>	0.1342547	<i>i</i>	8.79770	+0.00866738	−0.26293721		
<i>P</i>	4.14	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1996 03 22	809	0.1+	2.0+	2000 03 26	699	0.5−	0.4+	2000 04 07	699	0.2−	0.3−
1996 03 22	809	0.1−	1.0+	2000 03 26	699	0.3−	0.1+	2000 04 07	704	0.5+	0.2+
1996 03 22	809	0.3−	1.7+	2000 04 05	704	0.2−	0.2−	2000 04 07	699	0.0	0.2−
1996 03 24	809	0.4+	1.5−	2000 04 05	704	0.6+	0.4−	2000 04 07	704	0.3+	0.1−
1996 03 24	809	0.2+	1.7−	2000 04 05	704	1.0−	0.4+	2000 04 07	704	0.2−	1.0+
1996 03 24	809	0.1+	1.8−	2000 04 05	704	0.3+	0.5−	2000 04 07	704	0.1−	0.2+
1996 03 26	809	0.3−	0.7+	2000 04 05	704	0.4+	0.3−	2000 04 07	704	0.1−	0.4+
1996 03 26	809	1.3−	1.4+	2000 04 06	704	0.5−	0.6+	2000 04 08	704	0.3+	0.3−
1996 03 26	809	1.7−	1.5+	2000 04 06	704	0.1+	0.1−	2000 04 08	704	0.0	0.4−
1996 03 26	809	1.2+	0.8−	2000 04 06	704	0.1+	0.7−	2000 04 08	704	0.2+	0.1+
1996 03 26	809	1.1+	1.0−	2000 04 06	704	0.8+	0.0	2000 04 08	704	0.2−	0.1−
1996 03 26	809	0.7+	1.2−	2000 04 06	704	0.1+	0.3−	2000 04 10	704	0.5+	0.3+
2000 03 26	699	0.6−	0.3+	2000 04 07	699	0.3+	0.2−	2000 04 10	704	0.0	0.5−
2000 03 26	699	0.5−	0.2+	2000 04 07	699	0.2−	0.1−	2000 04 10	704	0.2+	0.2+

2000 GX₂₄ = 1997 WE₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	304.97152	(2000.0)		P	Q		
<i>n</i>	0.18895707	ω	347.00587	−0.25091285	+0.96775875		
<i>a</i>	3.0076500	Ω	268.45936	−0.88614793	−0.23879774		
<i>e</i>	0.1265475	<i>i</i>	1.26333	−0.38959542	−0.08011639		
<i>P</i>	5.22	<i>H</i>	13.5	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 11 21	327	0.3+	0.3−	2000 04 05	704	0.0	0.0	2000 04 07	704	1.1+	0.7−
1997 11 21	327	0.2−	0.1+	2000 04 06	699	0.2−	0.1−	2000 04 08	704	0.1−	0.3+
1997 11 21	327	0.1+	0.2+	2000 04 06	704	0.3+	0.3+	2000 04 08	704	0.1+	0.3−
1997 11 28	327	1.1−	0.8−	2000 04 06	699	0.3−	0.1+	2000 04 08	704	0.1+	0.3−
1997 11 28	327	0.2+	0.5+	2000 04 06	704	0.5+	0.3+	2000 04 08	704	0.3−	0.2+
1997 11 28	327	0.8+	0.1+	2000 04 06	699	0.4−	0.1−	2000 04 08	704	0.4−	0.1−
2000 04 02	699	0.4−	0.1−	2000 04 06	704	0.2+	0.1−	2000 04 10	704	0.1+	0.1−
2000 04 02	699	1.0+	0.7+	2000 04 06	704	0.1+	0.1−	2000 04 10	704	0.1−	0.6−
2000 04 02	699	0.3−	0.2+	2000 04 06	699	0.5−	0.4+	2000 04 10	704	0.3−	0.6−
2000 04 02	699	0.3−	0.2+	2000 04 06	704	0.1+	0.0	2000 04 10	704	0.3+	0.5+
2000 04 05	704	0.0	0.0	2000 04 07	704	0.1+	0.3+	2000 04 10	704	0.2−	0.3−
2000 04 05	704	0.3+	0.1−	2000 04 07	704	1.5−	0.9+	2000 04 10	608	0.3−	0.4−
2000 04 05	704	0.5+	0.2+	2000 04 07	704	0.6+	0.0	2000 04 10	608	0.1+	0.4−
2000 04 05	704	0.2−	0.5−	2000 04 07	704	0.3+	0.2+	2000 04 10	608	0.0	0.1−

2000 GS₂₅ = 1996 RJ₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	260.83809	(2000.0)		P	Q		
<i>n</i>	0.18478780	ω	116.10205	+0.62276716	+0.78239175		
<i>a</i>	3.0527215	Ω	192.42014	−0.72576879	+0.57532453		
<i>e</i>	0.1820051	<i>i</i>	1.31084	−0.29226825	+0.23846347		
<i>P</i>	5.33	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 09 06	691	1.3−	0.5−	2000 04 06	699	0.4−	0.4+	2000 04 07	704	0.8−	1.4−
1996 09 06	691	1.3−	0.5−	2000 04 06	704	0.2+	0.4−	2000 04 08	704	0.1−	0.1+
1996 09 06	691	1.2−	0.8−	2000 04 06	699	0.3−	0.3−	2000 04 08	704	0.4+	0.2+
1996 09 08	691	0.7−	0.1−	2000 04 06	704	0.1+	0.4+	2000 04 08	704	1.1+	0.9+
1996 09 08	691	0.8−	0.3−	2000 04 06	704	0.4+	0.2+	2000 04 08	704	0.2+	0.3+
1996 09 08	691	0.7−	0.2−	2000 04 06	699	0.1+	0.2+	2000 04 08	704	0.4−	0.8−
2000 04 03	699	0.2+	0.5+	2000 04 06	704	0.5+	0.0	2000 04 08	704	0.2−	0.1−
2000 04 03	699	1.0−	0.7+	2000 04 06	699	0.3−	0.3−	2000 04 08	704	0.3−	0.0
2000 04 03	699	0.5−	0.1+	2000 04 06	704	0.2+	0.2+	2000 04 10	704	0.3+	0.5+
2000 04 03	699	0.7+	0.7−	2000 04 07	704	1.0+	1.2−	2000 04 10	704	0.3+	1.3+
2000 04 05	704	0.0	0.4+	2000 04 07	704	1.1−	0.6−	2000 04 10	704	0.3+	0.7+
2000 04 05	704	0.1+	0.1+	2000 04 07	704	1.1−	0.5+	2000 04 10	704	0.8−	0.2+
2000 04 05	704	0.1+	0.6+	2000 04 07	704	0.9+	0.4−	2000 04 10	704	0.4−	0.2−
2000 04 05	704	0.3+	0.1+	2000 04 07	704	1.4−	1.0−				
2000 04 05	704	0.4−	0.1−	2000 04 07	704	0.4−	0.3−				

2000 GZ₂₅ = 2044 T-1 = 1998 SZ₈₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	75.56336	(2000.0)		P	Q		
<i>n</i>	0.23881124	ω	61.32148	+0.17695674	−0.98407479		
<i>a</i>	2.5729590	Ω	18.50876	+0.88349677	+0.15129033		
<i>e</i>	0.2751167	<i>i</i>	3.03838	+0.43372775	+0.09331693		
<i>P</i>	4.13	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 25	675	0.7+	0.0	2000 03 27	691	0.6−	0.1−	2000 04 06	699	0.1+	0.0
1971 03 25	675	0.3−	0.2+	2000 03 27	691	0.5−	0.1−	2000 04 06	704	0.4+	0.9+
1971 03 26	675	0.6+	0.3−	2000 04 03	699	0.8+	0.4+	2000 04 06	699	0.5+	0.0
1971 03 27	675	0.9−	0.2+	2000 04 03	699	0.3+	0.6−	2000 04 06	704	0.2−	0.0
1998 09 26	704	0.4−	0.6+	2000 04 03	699	1.1−	0.6+	2000 04 06	704	0.0	0.3−
1998 09 26	704	0.2−	0.4−	2000 04 03	699	0.1+	0.4−	2000 04 06	699	0.3+	0.2−
1998 09 26	704	(0.0	3.0−)	2000 04 05	691	0.3+	0.3+	2000 04 06	704	0.9+	0.2+

1998 09 26	704	(1.5+	2.3-)	2000 04 05	691	0.3-	0.4+	2000 04 06	699	0.2-	0.5-
1998 09 27	704	0.3+	0.4+	2000 04 05	691	0.2-	0.3+	2000 04 06	704	0.9+	0.2+
1998 09 27	704	0.4+	0.7+	2000 04 05	704	0.2+	0.2-	2000 04 11	691	0.6-	0.7-
1998 09 27	704	0.9+	0.1+	2000 04 05	704	0.8+	0.3-	2000 04 11	691	0.8-	0.2-
1998 09 27	704	0.2+	0.6-	2000 04 05	704	0.1+	0.3+	2000 04 11	691	0.8-	0.2-
1998 09 27	704	1.2-	0.8-	2000 04 05	704	0.1+	0.2+				
2000 03 27	691	0.5-	0.1+	2000 04 05	704	0.8+	0.1-				

2000 GM₂₇ = 1997 XN₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		324.56180		(2000.0)		P		Q	
<i>n</i>		0.17886071	ω	73.88077		-0.60779003		+0.79408505	
<i>a</i>		3.1197952	Ω	158.68742		-0.73321640		-0.55900906	
<i>e</i>		0.1250609	<i>i</i>	0.70884		-0.30493441		-0.23861645	
<i>P</i>		5.51	<i>H</i>	14.2		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1997 12 05	910	0.2+	0.1+	2000 04 05	704	0.2-	0.4+	2000 04 08	704	0.5+	1.0-
1997 12 05	910	0.3-	0.0	2000 04 06	704	0.6-	0.3-	2000 04 08	704	0.0	0.7-
1997 12 05	910	0.1-	0.1-	2000 04 06	704	0.1-	0.3+	2000 04 08	704	0.0	0.2+
1997 12 07	910	0.1-	0.1+	2000 04 06	704	0.4-	0.3+	2000 04 08	704	0.3+	0.1-
1997 12 07	910	0.2+	0.1-	2000 04 06	704	0.2+	0.6+	2000 04 10	704	0.5+	0.2-
1997 12 07	910	0.1+	0.0	2000 04 06	704	0.0	0.8+	2000 04 10	704	0.9-	0.4-
2000 04 03	699	0.4+	0.0	2000 04 07	704	0.3-	0.6-	2000 04 10	704	0.6+	0.3+
2000 04 03	699	0.4-	0.6+	2000 04 07	704	0.3-	0.2-	2000 04 10	704	0.3-	0.4-
2000 04 03	699	0.1+	0.6-	2000 04 07	704	1.0+	0.1-	2000 04 10	704	0.3-	0.0
2000 04 03	699	0.6+	0.2-	2000 04 07	704	0.1-	0.2-	2000 04 11	691	0.4-	0.3-
2000 04 05	691	0.5-	0.0	2000 04 07	704	0.9+	0.5+	2000 04 11	691	0.5-	0.4-
2000 04 05	691	0.7-	0.1+	2000 04 07	704	0.1+	0.2+	2000 04 11	691	0.5-	0.4-
2000 04 05	691	0.4-	0.1+	2000 04 07	704	0.1-	0.4+	2000 04 14	704	0.8+	0.5+
2000 04 05	704	0.0	0.3-	2000 04 07	704	0.6+	0.2-	2000 04 14	704	0.0	0.1+
2000 04 05	704	0.3-	0.1-	2000 04 07	704	0.7+	0.2+	2000 04 14	704	0.2-	0.8+
2000 04 05	704	0.2-	0.2-	2000 04 07	704	0.9+	1.0+				
2000 04 05	704	0.2-	0.1+	2000 04 08	704	0.1-	0.7-				

2000 GR₃₂ = 1992 SS₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		263.92976		(2000.0)		P		Q	
<i>n</i>		0.21290348	ω	257.98394		+0.44343472		+0.89592075	
<i>a</i>		2.7776715	Ω	38.37415		-0.80498373		+0.41098623	
<i>e</i>		0.0904840	<i>i</i>	2.42802		-0.39416601		+0.16857144	
<i>P</i>		4.63	<i>H</i>	15.0		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1992 09 25	691	0.2+	1.4-	2000 04 05	704	1.3+	0.8-	2000 04 07	704	0.5-	0.8+
1992 09 25	691	1.8+	1.5+	2000 04 06	704	0.3+	0.4+	2000 04 07	704	0.6+	1.2+
1992 09 25	691	0.2-	1.5-	2000 04 06	704	0.1-	0.5+	2000 04 07	704	0.4-	1.0+
1992 09 26	691	0.5-	0.4+	2000 04 06	704	0.2+	0.2+	2000 04 07	704	1.2+	0.1+
1992 09 26	691	0.9-	1.5+	2000 04 06	704	0.6+	0.3-	2000 04 11	608	1.4-	0.2-
1992 09 26	691	0.4-	0.4-	2000 04 06	704	0.3-	0.6-	2000 04 11	608	1.1-	0.1-
2000 04 05	704	1.2-	0.1+	2000 04 06	691	0.9-	0.1+	2000 04 11	608	1.6-	0.0
2000 04 05	704	0.6+	0.1-	2000 04 06	691	0.8-	0.0	2000 04 13	691	1.1+	0.2+
2000 04 05	704	0.9+	0.8-	2000 04 06	691	0.8-	0.1+	2000 04 13	691	1.1+	0.8-
2000 04 05	704	0.5+	1.2-	2000 04 07	704	0.3-	0.1+	2000 04 13	691	1.0+	0.1+

2000 GT₃₂ = 1998 XE₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		80.37433		(2000.0)		P		Q	
<i>n</i>		0.21122969	ω	276.76690		-0.22100581		-0.97524733	
<i>a</i>		2.7923257	Ω	186.01489		+0.91912718		-0.20587538	
<i>e</i>		0.0613150	<i>i</i>	3.83330		+0.32613135		-0.08067200	
<i>P</i>		4.67	<i>H</i>	14.1		<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 15	704	1.0+	0.4+	2000 04 05	704	0.4+	0.0	2000 04 07	704	0.0	0.0
1998 12 15	704	0.1+	0.5+	2000 04 05	704	0.2+	0.1-	2000 04 07	704	0.5+	0.3+
1998 12 15	704	(1.4-	2.3-)	2000 04 05	704	0.4+	0.4-	2000 04 07	704	0.0	0.0
1998 12 15	704	0.3-	0.7-	2000 04 05	704	0.4+	1.2-	2000 04 07	704	0.8+	0.2-
1998 12 15	704	1.0-	1.2-	2000 04 05	704	0.1-	0.8-	2000 04 07	704	0.1+	0.0
1998 12 22	704	0.0	0.3-	2000 04 06	699	0.3+	0.0	2000 04 10	704	1.6-	1.1+
1998 12 22	704	0.4+	0.2+	2000 04 06	704	0.0	0.3-	2000 04 10	704	0.2+	0.7-
1998 12 22	704	0.1+	0.7+	2000 04 06	699	0.3+	0.6+	2000 04 10	704	0.2+	0.2+
1998 12 22	704	0.5-	0.3+	2000 04 06	704	0.1+	0.4-	2000 04 10	704	0.0	0.2-
1998 12 22	704	0.0	0.2+	2000 04 06	704	0.2-	0.2-	2000 04 10	704	0.6-	0.3-
2000 04 03	699	1.2-	1.3+	2000 04 06	699	0.0	0.7+	2000 04 10	704	0.3+	0.0
2000 04 03	699	0.1+	0.3-	2000 04 06	704	0.0	0.6-	2000 04 10	704	0.0	0.1+
2000 04 03	699	0.2-	0.1+	2000 04 06	699	0.3+	0.2+	2000 04 10	704	0.0	0.5+
2000 04 03	699	0.8-	0.7+	2000 04 06	704	0.0	0.2-				

2000 GL₃₃ = 1995 WG₁₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		334.99903		(2000.0)		P		Q	
<i>n</i>		0.31152036	ω	11.72603		-0.82661820		+0.56074370	
<i>a</i>		2.1551546	Ω	202.58239		-0.52583429		-0.79975909	
<i>e</i>		0.1318372	<i>i</i>	7.12529		-0.20050100		-0.21436394	
<i>P</i>		3.16	<i>H</i>	15.7		<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 11 16	691	0.2-	0.1+	2000 04 07	704	0.3-	0.0	2000 04 10	704	0.4-	0.9+
1995 11 16	691	0.2+	0.1-	2000 04 07	704	0.6-	0.2+	2000 04 10	704	0.1+	0.0
1995 11 16	691	0.0	0.0	2000 04 07	704	0.1-	0.3-	2000 04 10	704	0.0	0.2-
1995 11 21	691	0.1-	0.0	2000 04 07	704	0.1+	0.1-	2000 04 10	704	0.6+	0.6+
1995 11 21	691	0.0	0.1-	2000 04 07	704	0.2+	0.3-	2000 04 10	704	0.1+	0.5+
1995 11 21	691	0.2+	0.1-	2000 04 08	704	0.8+	0.5+	2000 04 11	608	0.4-	0.3-
2000 04 05	704	0.1-	0.1+	2000 04 08	704	1.0+	0.5-	2000 04 11	608	0.3-	0.1-
2000 04 05	704	0.2-	0.1+	2000 04 08	704	0.4+	0.7-	2000 04 11	608	0.4-	0.2-
2000 04 05	704	0.1-	0.0	2000 04 08	704	0.7+	0.7-	2000 04 12	691	0.6-	0.6-
2000 04 05	704	0.0	0.1+	2000 04 08	704	0.9+	0.2-	2000 04 12	691	0.3-	0.5-
2000 04 05	704	0.0	0.0	2000 04 10	704	0.1-	0.1+	2000 04 12	691	0.2-	0.4-
2000 04 06	699	0.0	0.3+	2000 04 10	704	0.5+	0.4+	2000 04 13	691	0.9-	0.7-
2000 04 06	704	0.3-	0.3-	2000 04 10	704	0.3-	0.2-	2000 04 13	691	0.8-	0.6-
2000 04 06	699	0.1-	0.1+	2000 04 10	704	0.2-	0.5+	2000 04 13	691	0.9-	0.7-
2000 04 06	704	0.1-	0.4-	2000 04 10	704	0.0	0.8+	2000 04 14	704	1.4+	0.1-
2000 04 06	704	0.2+	0.2-	2000 04 10	704	0.3-	0.1+	2000 04 14	704	0.7+	0.1-
2000 04 06	699	0.0	0.2+	2000 04 10	704	0.1+	0.6+	2000 04 14	704	0.1+	0.3+
2000 04 06	704	0.0	0.1-	2000 04 10	704	0.3-	1.2+	2000 04 14	704	0.4+	0.8+
2000 04 06	699	0.1+	0.1+	2000 04 10	704	0.1-	0.3+	2000 04 14	704	0.4+	0.1+
2000 04 06	704	0.1-	0.3-	2000 04 10	704	0.1-	0.2+				

2000 GT₃₃ = 1994 CR₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		356.46626		(2000.0)		P		Q	
<i>n</i>		0.17587181	ω	214.51552		-0.97176620		+0.23565495	
<i>a</i>		3.1550426	Ω	339.10536		-0.20839943		-0.88053291	
<i>e</i>		0.1803772	<i>i</i>	1.88204		-0.11063510		-0.41125241	
<i>P</i>		5.60	<i>H</i>	14.8		<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1994 02 10	691	0.1-	0.0	2000 04 03	699	0.3+	0.4+	2000 04 06	704	0.8+	0.2+
1994 02 10	691	0.3+	0.0	2000 04 03	699	0.1+	0.4+	2000 04 06	704	0.2-	0.3+
1994 02 10	691	0.1+	0.1+	2000 04 03	699	0.4+	0.1+	2000 04 06	699	0.4-	0.3+
1994 02 12	691	0.1+	0.4-	2000 04 05	704	0.4+	0.6+	2000 04 06	704	0.3-	0.2-
1994 02 12	691	0.0	0.1-	2000 04 05	704	0.0	0.5-	2000 04 06	699	0.2-	0.2-
1994 02 12	691	0.3-	0.3+	2000 04 05	704	0.3-	0.4-	2000 04 06	704	0.2+	0.3-
2000 03 27	699	0.3+	0.2+	2000 04 05	704	0.2+	0.3-	2000 04 07	704	1.2-	1.6-
2000 03 27	699	0.5-	0.4-	2000 04 05	704	0.6+	0.1-	2000 04 07	704	0.5-	0.3+
2000 03 27	699	0.8+	0.4+	2000 04 06	699	0.1+	0.0	2000 04 07	704	0.1-	0.1-
2000 03 27	699	0.2+	0.6+	2000 04 06	704	0.2+	0.3+	2000 04 07	704	0.0	0.1+
2000 04 03	699	0.3-	0.2+	2000 04 06	699	0.0	0.1+	2000 04 07	704	0.6-	0.2-

2000 GW₃₅ = 1998 YV₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	47.83813		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.21725395	ω	180.82957	-0.73771031	-0.67486414		
<i>a</i>	2.7404650	Ω	316.70747	+0.61956329	-0.66587170		
<i>e</i>	0.0625132	<i>i</i>	1.54515	+0.26818805	-0.31807746		
<i>P</i>	4.54	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 12 16	704	1.2+	0.2-	2000 04 05	704	0.2+	0.4-	2000 04 07	704	0.2+	0.4+
1998 12 16	704	1.5+	0.7+	2000 04 05	704	0.2+	0.0	2000 04 07	704	0.3-	0.7+
1998 12 16	704	1.2-	0.7+	2000 04 06	704	0.3-	0.2-	2000 04 07	704	0.2-	0.7+
1998 12 17	704	0.1+	0.5-	2000 04 06	704	0.3+	0.2-	2000 04 07	704	0.4-	0.5+
1998 12 17	704	1.6-	0.8-	2000 04 06	704	0.7-	0.3+	2000 04 08	704	0.6-	0.4-
1998 12 17	704	0.0	0.0	2000 04 06	704	0.1-	0.0	2000 04 08	704	0.3+	0.2-
2000 04 02	699	0.3-	0.0	2000 04 06	704	0.0	0.3+	2000 04 08	704	1.9+	0.8-
2000 04 02	699	0.2+	0.3+	2000 04 07	704	0.4-	0.6-	2000 04 08	704	1.6+	0.3+
2000 04 02	699	0.1+	0.3-	2000 04 07	704	0.2-	0.4-	2000 04 10	704	0.4-	0.1-
2000 04 02	699	0.4-	0.4-	2000 04 07	704	0.3-	0.1-	2000 04 10	704	0.2+	0.1-
2000 04 05	704	0.4+	0.3+	2000 04 07	704	0.5-	0.0	2000 04 10	704	0.3-	0.1-
2000 04 05	704	0.1+	0.0	2000 04 07	704	0.3-	0.5+				
2000 04 05	704	0.5+	0.3-	2000 04 07	704	0.3-	0.3+				

2000 GG₃₇ = 1997 NB₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	285.85991		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.30947421	ω	158.93778	+0.34241798	+0.93299302		
<i>a</i>	2.1646436	Ω	130.90765	-0.88161763	+0.35982822		
<i>e</i>	0.2627298	<i>i</i>	8.42937	-0.32480807	+0.00690466		
<i>P</i>	3.18	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1997 07 07	910	0.3-	0.1+	2000 04 06	704	0.2-	0.2+	2000 04 08	704	0.0	0.5+
1997 07 07	910	0.3-	0.2+	2000 04 06	704	0.0	0.0	2000 04 11	608	0.1-	0.6-
1997 07 07	910	0.3-	0.1+	2000 04 06	704	0.4-	0.1-	2000 04 11	608	0.0	0.0
1997 07 08	910	0.4+	0.1-	2000 04 06	704	0.2-	0.3+	2000 04 11	608	0.6-	0.4-
1997 07 08	910	0.3+	0.2-	2000 04 07	699	0.3-	0.6+	2000 04 12	608	0.1-	0.6-
1997 07 08	910	0.3+	0.1-	2000 04 07	699	0.0	0.4+	2000 04 12	608	0.5-	0.5+
2000 04 05	704	0.5+	0.4+	2000 04 07	699	0.2-	0.5-	2000 04 12	608	0.1-	0.5-
2000 04 05	704	0.1+	0.2+	2000 04 07	699	0.2-	0.6+	2000 04 13	704	0.4+	0.1+
2000 04 05	704	0.4+	0.4-	2000 04 08	704	0.0	0.5+	2000 04 13	704	0.5+	0.4+
2000 04 05	704	0.4+	0.7-	2000 04 08	704	0.8+	0.1+	2000 04 13	704	0.3+	0.3+
2000 04 05	704	0.2-	0.3-	2000 04 08	704	0.5-	0.0	2000 04 13	704	0.4+	0.2-
2000 04 06	704	0.1-	0.1-	2000 04 08	704	0.1+	0.0	2000 04 13	704	0.3-	0.7-

2000 GD₃₉ = 2862 P-L = 1996 HF₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.85864		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.23636976	ω	73.30611	-0.40091181	-0.91576961		
<i>a</i>	2.5906462	Ω	40.35850	+0.82498865	-0.37286226		
<i>e</i>	0.0868113	<i>i</i>	2.23144	+0.39832580	-0.14946488		
<i>P</i>	4.17	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	0.5+	0.5+	1996 04 18	809	(1.4-	4.2-)	2000 04 07	704	0.1+	0.3-
1960 09 24	675	0.2+	0.4-	2000 04 05	704	0.4-	0.5+	2000 04 07	704	0.1-	0.1-
1960 09 26	675	0.1-	0.5-	2000 04 05	704	0.4-	0.8-	2000 04 07	704	0.8-	0.6-
1960 09 26	675	0.1+	0.1+	2000 04 05	704	0.4+	0.4+	2000 04 07	704	0.6+	0.9-
1960 09 28	675	0.1-	0.9+	2000 04 05	704	0.7+	0.7+	2000 04 10	704	0.4+	1.0+
1960 09 28	675	0.6-	0.7-	2000 04 06	704	0.3-	0.5+	2000 04 10	704	1.0+	0.1+
1996 04 17	809	0.0	1.2+	2000 04 06	704	0.2-	0.3+	2000 04 10	704	0.4+	0.7+
1996 04 17	809	0.4+	0.6-	2000 04 06	704	0.3-	0.3+	2000 04 10	704	0.5-	0.5+
1996 04 17	809	0.3-	0.4-	2000 04 06	704	0.2+	0.3-	2000 04 13	691	0.4-	0.6-
1996 04 18	809	(3.3-	3.1-)	2000 04 06	704	0.4+	0.1+	2000 04 13	691	0.5-	0.8-
1996 04 18	809	(3.6-	2.4-)	2000 04 07	704	0.0	0.3-	2000 04 13	691	0.5-	0.6-

2000 GM₄₀ = 1992 EX₃₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	277.31455		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.25655786	ω	87.29269	+0.24457035	+0.96915291		
<i>a</i>	2.4528962	Ω	196.95793	-0.92595374	+0.22411518		
<i>e</i>	0.1057598	<i>i</i>	5.99504	-0.28774123	+0.10254274		
<i>P</i>	3.84	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1992 03 05	809	0.2+	0.5+	2000 04 06	704	0.4-	0.3+	2000 04 12	704	0.6-	0.2+
1992 03 09	809	0.2-	0.6-	2000 04 06	704	0.2-	0.3+	2000 04 12	704	0.0	0.4-
2000 04 05	704	0.5-	0.9+	2000 04 06	704	0.1-	0.4+	2000 04 13	691	0.5-	0.1+
2000 04 05	704	0.0	0.2-	2000 04 06	704	0.3-	0.1+	2000 04 13	691	0.4-	0.0
2000 04 05	704	0.7+	0.4-	2000 04 06	704	0.5-	0.0	2000 04 13	691	0.4-	0.1-
2000 04 05	704	0.1+	0.1+	2000 04 07	704	0.4+	0.3+	2000 04 14	704	1.4+	0.4-
2000 04 05	704	0.0	0.6-	2000 04 07	704	0.2+	0.3-	2000 04 14	704	0.5+	0.6-
2000 04 06	704	0.5+	0.1+	2000 04 07	704	0.9+	0.3+	2000 04 14	704	1.1-	0.5+
2000 04 06	704	0.5-	0.5+	2000 04 07	704	1.1+	0.2+	2000 04 14	704	0.5-	0.5+
2000 04 06	704	0.1+	0.5-	2000 04 12	704	0.5+	0.3-	2000 04 14	704	0.0	0.2-
2000 04 06	704	0.1-	0.7-	2000 04 12	704	0.5+	0.6+				
2000 04 06	704	1.6-	0.6-	2000 04 12	704	0.8+	0.6-				

2000 GR₄₀ = 1998 TX

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	38.94379		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.27165150	ω	298.90061	-0.75732646	-0.65287687		
<i>a</i>	2.3611739	Ω	200.35149	+0.61267677	-0.70269622		
<i>e</i>	0.1084718	<i>i</i>	2.37914	+0.22601730	-0.28278933		
<i>P</i>	3.63	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1994 09 11	691	0.0	0.0	1998 10 13	691	0.6-	0.3+	2000 04 05	704	0.2+	0.5+
1994 09 11	691	0.1+	0.1+	1998 10 13	691	0.0	0.5+	2000 04 06	704	0.0	0.0
1994 09 11	691	0.3-	0.5+	1998 10 13	691	0.4-	0.4+	2000 04 06	704	0.2-	0.5-
1995 11 30	691	0.0	0.1-	2000 03 03	688	0.2+	0.3+	2000 04 06	704	0.0	0.0
1995 11 30	691	0.4-	0.1+	2000 03 03	688	0.4+	0.5+	2000 04 06	704	0.6+	0.1+
1995 11 30	691	0.3+	0.2-	2000 04 05	704	0.3+	0.1-	2000 04 06	704	0.2+	0.3+
1998 10 12	691	0.1+	0.1+	2000 04 05	704	0.7-	1.4+	2000 04 12	691	0.5-	0.0
1998 10 12	691	0.0	0.2+	2000 04 05	704	0.8+	0.4-	2000 04 12	691	0.0	0.4-
1998 10 12	691	0.4+	0.3+	2000 04 05	704	0.2+	0.6+	2000 04 12	691	0.7-	0.1-

2000 GQ₄₄ = 1996 GF₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	240.35157		(2000.0)	Williams		<i>P</i>	<i>Q</i>
<i>n</i>	0.24347256	ω	247.26372	+0.79010709	+0.61249861		
<i>a</i>	2.5400136	Ω	74.95753	-0.55287532	+0.72901141		
<i>e</i>	0.1161505	<i>i</i>	1.42433	-0.26468787	+0.30559421		
<i>P</i>	4.05	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1996 04 13	691	0.2-	0.5+	2000 04 05	704	0.1+	0.6-	2000 04 08	704	0.3+	0.5+
1996 04 13	691	0.0	0.2+	2000 04 06	704	0.8-	0.3+	2000 04 10	704	0.6+	0.2-
1996 04 13	691	0.0	0.5-	2000 04 06	704	0.5-	0.2+	2000 04 10	704	0.9+	0.1-
1996 04 20	691	0.2+	0.0	2000 04 06	704	0.2-	0.2-	2000 04 10	704	0.7+	1.2-
1996 04 20	691	0.1-	0.2+	2000 04 06	704	0.2-	0.3-	2000 04 10	704	0.5+	1.4+
1996 04 20	691	0.1+	0.5-	2000 04 06	704	0.1-	0.1+	2000 04 10	704	1.1+	0.6+
2000 04 05	704	0.3+	0.2-	2000 04 08	704	0.9+	0.2+	2000 04 13	691	0.7-	0.0
2000 04 05	704	0.1+	0.3-	2000 04 08	704	0.2-	1.3+	2000 04 13	691	0.8-	0.0
2000 04 05	704	0.1-	0.0	2000 04 08	704	0.3-	0.3-	2000 04 13	691	0.6-	0.0
2000 04 05	704	0.6-	0.3-	2000 04 08	704	0.2-	0.9-				

2000 APR. 18

M.P.C. 40261

2000 GR₄₄ = 1997 MW₁₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	308.53292		(2000.0)	P		Q	
<i>n</i>	0.29360601	ω	93.21826	−0.34954358	+0.93682803		
<i>a</i>	2.2419509	Ω	156.30923	−0.87206888	−0.32019188		
<i>e</i>	0.1230223	<i>i</i>	1.87340	−0.34251299	−0.14082050		
<i>P</i>	3.36	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1997 06 29	704	0.4−	0.4−	2000 03 14	703	0.1+	0.0	2000 04 07	704	0.6+	0.1+
1997 06 29	704	0.1+	0.1+	2000 03 14	703	0.0	0.5+	2000 04 07	704	0.2+	0.4+
1997 06 29	704	0.2−	0.4−	2000 03 14	703	0.1+	0.7−	2000 04 07	704	0.2+	0.5+
1997 06 29	704	0.3−	0.2−	2000 03 14	703	0.1−	0.5−	2000 04 07	704	0.6+	0.4+
1997 06 29	704	0.2+	0.3−	2000 03 14	703	0.7−	0.7+	2000 04 07	704	0.0	0.8+
1997 07 02	704	0.1−	0.3−	2000 03 14	703	0.3−	0.2−	2000 04 10	704	0.2+	0.2+
1997 07 02	704	0.5+	1.1+	2000 04 05	704	0.0	0.1−	2000 04 10	704	0.2+	0.6+
1997 07 02	704	0.3+	0.4−	2000 04 05	704	0.3+	0.5−	2000 04 10	704	0.5+	0.3−
1997 07 02	704	0.0	0.2+	2000 04 05	704	0.2−	0.4−	2000 04 10	704	0.1+	0.2−
1997 07 02	704	0.0	0.3−	2000 04 05	704	0.1−	0.8−	2000 04 10	704	0.4+	0.5+
1998 11 24	704	1.5+	0.3−	2000 04 05	704	0.3−	0.8−	2000 04 12	704	1.4−	0.0
1998 11 24	704	0.7−	0.7−	2000 04 06	704	0.1+	0.2−	2000 04 12	704	0.5−	1.2+
1998 11 24	704	0.0	1.0−	2000 04 06	704	0.2+	0.5−	2000 04 12	704	0.9−	0.7+
1998 11 24	704	0.5−	0.6+	2000 04 06	704	0.1+	0.3−	2000 04 12	704	0.5+	0.4−
2000 03 14	703	1.2−	0.7−	2000 04 06	704	0.2+	0.2−				
2000 03 14	703	0.5+	0.6+	2000 04 06	704	0.2+	0.8−				

2000 GC₄₆ = 1990 RC₄ = 1992 BB₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.47416		(2000.0)	P		Q	
<i>n</i>	0.27167323	ω	99.73382	+0.32502820	+0.94552855		
<i>a</i>	2.3610480	Ω	189.29512	−0.90589684	+0.30575424		
<i>e</i>	0.1169754	<i>i</i>	6.48146	−0.27149141	+0.11175914		
<i>P</i>	3.63	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1990 09 14	675	0.5+	0.9+	2000 04 05	704	0.6+	0.3+	2000 04 07	704	0.7−	0.5−
1990 09 14	675	0.6−	0.4+	2000 04 05	704	0.6+	0.1+	2000 04 07	704	0.0	0.5+
1990 09 18	675	0.3−	0.3−	2000 04 05	704	0.3+	0.2+	2000 04 07	704	0.2−	0.1+
1990 09 18	675	0.5+	1.3−	2000 04 05	704	0.5+	0.2+	2000 04 07	704	0.1−	0.7+
1992 01 30	809	0.3−	0.2−	2000 04 05	704	0.3+	0.0	2000 04 07	704	0.2−	0.3+
1992 01 30	809	1.1+	0.0	2000 04 06	704	0.1+	0.1+	2000 04 13	608	0.6−	0.7−
1992 01 30	809	1.4−	0.0	2000 04 06	704	0.1+	0.4+	2000 04 13	608	0.6−	0.6−
1992 02 02	809	0.3−	0.3+	2000 04 06	704	0.1+	0.3−	2000 04 13	608	0.6−	0.9−
1992 02 02	809	0.9+	0.4−	2000 04 06	704	0.1+	0.2+				
1992 02 02	809	(0.1−	3.0−)	2000 04 06	704	0.1−	0.3−				

2000 GG₄₈ = 1998 SC₁₄₅ = 1998 UN₃₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	56.58981		(2000.0)	P		Q	
<i>n</i>	0.25818522	ω	104.59052	−0.46345875	−0.88607134		
<i>a</i>	2.4425781	Ω	13.03160	+0.79659473	−0.42113230		
<i>e</i>	0.1553083	<i>i</i>	2.32341	+0.38812733	−0.19371412		
<i>P</i>	3.82	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1998 09 20	809	0.7−	0.4+	2000 04 04	699	0.1−	0.2−	2000 04 07	704	1.3+	0.5+
1998 09 20	809	0.9−	0.1+	2000 04 04	699	0.2+	0.2−	2000 04 07	704	0.3+	0.1+
1998 09 20	809	1.1−	1.0−	2000 04 04	699	0.0	0.0	2000 04 07	704	0.0	0.3−
1998 09 21	809	1.2+	1.7+	2000 04 04	699	0.1−	0.4−	2000 04 07	704	0.2+	0.2−
1998 09 21	809	0.6+	0.4+	2000 04 05	704	0.3+	0.3−	2000 04 08	704	0.7−	0.4+
1998 09 21	809	0.1−	1.4+	2000 04 05	704	0.2−	0.0	2000 04 08	704	0.4−	0.8+
1998 10 28	704	1.0−	1.7+	2000 04 05	704	0.3+	0.6+	2000 04 08	704	0.5+	0.3+
1998 10 28	704	1.9−	1.1+	2000 04 05	704	0.4−	0.3+	2000 04 08	704	0.6+	0.0
1998 10 28	704	(3.2−	1.9+)	2000 04 05	704	0.5+	0.8+	2000 04 08	704	0.1+	0.4+
1998 10 28	704	(2.2−	2.3+)	2000 04 06	704	0.6+	0.4−	2000 04 10	704	0.1−	0.5+

1998 10 29	704	0.3+	0.5−	2000 04 06	704	0.1+	0.2−	2000 04 10	704	0.2−	1.0+
1998 10 29	704	0.0	0.8+	2000 04 06	704	0.2+	0.3+	2000 04 10	704	1.4−	0.2+
1998 10 29	704	0.2+	0.4−	2000 04 06	704	0.5−	0.8−	2000 04 10	704	0.2+	0.0
1998 10 29	704	0.5+	1.1−	2000 04 06	704	0.5+	0.5−	2000 04 10	704	0.7−	0.4+
1998 10 29	704	1.5+	0.9−	2000 04 07	704	0.3+	0.1+				

2000 GQ₅₂ = 1994 TN₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	330.69186		(2000.0)	P		Q	
<i>n</i>	0.28103191	ω	199.71365	−0.70046232	+0.71309100		
<i>a</i>	2.3083357	Ω	25.84878	−0.64547645	−0.61551538		
<i>e</i>	0.1188762	<i>i</i>	3.84267	−0.30448760	−0.33562187		
<i>P</i>	3.51	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 10 04	691	0.1+	0.0	2000 04 05	704	0.1+	0.0	2000 04 07	704	0.1−	0.1−
1994 10 04	691	0.1+	0.0	2000 04 05	704	0.2+	0.2−	2000 04 07	704	0.1−	0.7−
1994 10 11	691	0.3−	0.0	2000 04 06	704	0.1−	0.1−	2000 04 07	704	1.1−	0.1+
1994 10 11	691	0.2+	0.0	2000 04 06	704	0.0	0.3−	2000 04 08	704	0.9+	0.8+
1994 10 11	691	0.1−	0.2−	2000 04 06	704	0.4+	0.2+	2000 04 08	704	0.8+	0.1+
2000 03 17	704	0.7+	0.7−	2000 04 06	704	0.2−	0.0	2000 04 08	704	(2.4+	0.2−)
2000 03 17	704	0.3−	0.0	2000 04 07	699	1.0−	0.0	2000 04 08	704	0.1−	0.5+
2000 03 17	704	0.0	0.7+	2000 04 07	699	0.7−	0.3−	2000 04 08	704	0.9+	0.3+
2000 03 17	704	0.4−	0.1+	2000 04 07	704	0.2+	0.3+	2000 04 10	704	0.3+	0.1−
2000 04 05	704	0.1+	0.0	2000 04 07	699	0.1−	0.4+	2000 04 10	704	0.3−	0.1−
2000 04 05	704	0.0	0.1−	2000 04 07	704	0.2−	0.0	2000 04 10	704	0.0	0.6−
2000 04 05	704	0.2+	0.5−	2000 04 07	699	0.6−	0.3+	2000 04 10	704	0.5+	0.1−

2000 GO₅₄ = 1996 FR

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	11.88785		(2000.0)	P		Q	
<i>n</i>	0.25340313	ω	170.08002	−0.99613383	−0.08773506		
<i>a</i>	2.4732123	Ω	4.89329	+0.07658566	−0.89220260		
<i>e</i>	0.1356457	<i>i</i>	3.00130	+0.04303515	−0.44303169		
<i>P</i>	3.89	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 03 17	566	0.5+	0.1−	2000 04 05	704	0.4+	1.3+	2000 04 08	704	0.3+	0.5−
1996 03 17	566	0.4+	0.3+	2000 04 06	704	0.1+	0.2−	2000 04 08	704	0.5+	0.0
1996 03 17	566	0.4+	0.1+	2000 04 06	704	0.2−	0.0	2000 04 08	704	0.8−	1.4+
1996 03 19	566	0.4−	0.1−	2000 04 06	704	0.2+	0.0	2000 04 08	704	0.1−	0.4+
1996 03 19	566	0.7−	0.3+	2000 04 06	704	0.2+	0.7−	2000 04 08	704	0.8+	0.3+
1996 03 19	566	0.2−	0.6−	2000 04 06	704	0.5−	0.9−	2000 04 10	704	0.2−	0.3+
2000 04 05	704	0.9−	0.5−	2000 04 07	704	0.3−	0.3−	2000 04 10	704	0.0	0.8−
2000 04 05	704	0.0	0.1−	2000 04 07	704	0.5+	0.1+	2000 04 10	704	0.4−	0.0
2000 04 05	704	0.3+	0.1+	2000 04 07	704	0.6+	0.2−	2000 04 10	704	0.3+	0.6−
2000 04 05	704	0.2+	0.7+	2000 04 07	704	0.8−	0.4+				

2000 GX₅₅ = 1977 ED₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	45.91299		(2000.0)	P		Q	
<i>n</i>	0.17448119	ω	318.50214	−0.79554037	−0.60584656		
<i>a</i>	3.1717842	Ω	184.23206	+0.58078829	−0.75869591		
<i>e</i>	0.0928087	<i>i</i>	6.29408	+0.17262814	−0.23943781		
<i>P</i>	5.65	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1977 03 12	381	0.5−	0.9+	2000 04 04	699	0.6−	0.1−	2000 04 06	704	0.5+	0.4+
1977 03 12	381	0.0	0.4+	2000 04 05	704	0.6+	0.5−	2000 04 06	704	0.3+	0.8+
1977 03 14	381	0.5+	0.1−	2000 04 05	704	0.2+	0.6−	2000 04 07	704	0.4+	0.1−
1977 03 14	381	0.3+	0.7−	2000 04 05	704	0.1+	0.1+	2000 04 07	704	0.9+	0.1+
1977 03 15	381	1.9+	0.0	2000 04 05	704	0.3+	0.4+	2000 04 07	704	0.4−	0.4−
1977 03 15	381	2.2−	0.4−	2000 04 05	704	0.2+	0.3+	2000 04 07	704	0.2+	0.4−
2000 04 04	699	0.7−	0.2−	2000 04 06	704	0.3+	0.5−	2000 04 12	691	0.3−	0.2+

2000 04 04	699	0.5−	0.4+	2000 04 06	704	0.2−	0.0	2000 04 12	691	0.5−	0.0
2000 04 04	699	0.6−	0.1−	2000 04 06	704	0.5+	0.1+	2000 04 12	691	0.6−	0.1+

2000 GX₅₆ = 1998 XR₇₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	293.55399		(2000.0)	P	Q
<i>n</i>	0.27590707	ω	233.26633	−0.04634679	+0.99666153
<i>a</i>	2.3368320	Ω	34.26233	−0.87422217	−0.00791386
<i>e</i>	0.0719290	<i>i</i>	6.85688	−0.48330899	−0.08125982
<i>P</i>	3.57	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	1.4+	1.1+	2000 04 04	699	0.2−	0.3+	2000 04 07	699	0.2−	0.1−
1998 12 14	704	0.5+	0.7+	2000 04 05	704	1.1−	0.1+	2000 04 07	704	0.2−	0.2+
1998 12 14	704	0.2+	1.1+	2000 04 05	704	0.1+	0.2+	2000 04 07	699	0.2−	0.2+
1998 12 14	704	1.5+	0.1+	2000 04 05	704	0.1+	0.8−	2000 04 07	704	0.3+	0.0
1998 12 14	704	(2.7−	2.1+)	2000 04 05	704	0.2+	0.4−	2000 04 07	699	0.1−	0.3+
1998 12 17	704	0.2+	1.3−	2000 04 05	704	0.7−	1.3−	2000 04 07	704	0.3−	0.1+
1998 12 17	704	0.4+	1.1−	2000 04 06	704	0.0	0.4+	2000 04 07	704	0.4+	0.5+
1998 12 17	704	(1.1+	2.4−)	2000 04 06	704	1.2+	0.3−	2000 04 07	704	0.9+	0.2+
1998 12 17	704	1.2−	0.5−	2000 04 06	704	0.1−	0.2+	2000 04 12	608	0.0	0.1+
2000 04 04	699	0.1−	0.1+	2000 04 06	704	0.2−	0.2−	2000 04 12	608	0.2+	0.3+
2000 04 04	699	0.4−	0.5+	2000 04 06	704	0.6+	0.7−	2000 04 12	608	0.1−	0.1−
2000 04 04	699	0.1−	0.3+	2000 04 07	699	0.2−	0.1−				

2000 GQ₇₀ = 1998 XO₄₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	50.64810		(2000.0)	P	Q
<i>n</i>	0.23393358	ω	119.54403	−0.82861628	−0.55880379
<i>a</i>	2.6086011	Ω	26.52613	+0.48399923	−0.74531769
<i>e</i>	0.0458629	<i>i</i>	4.32316	+0.28131800	−0.36364799
<i>P</i>	4.21	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 12 14	704	1.5−	1.0+	1999 01 16	704	(3.9−	0.1−)	2000 04 06	704	0.5+	0.2+
1998 12 14	704	1.1−	1.0+	2000 04 05	691	0.6−	0.3−	2000 04 06	704	0.1+	0.2−
1998 12 14	704	0.9−	0.3−	2000 04 05	691	0.6−	0.4−	2000 04 07	704	0.4+	0.2+
1998 12 17	704	1.4+	0.4−	2000 04 05	704	0.4+	0.3−	2000 04 07	704	0.1−	0.5−
1998 12 17	704	0.8+	0.2−	2000 04 05	704	0.1+	0.1−	2000 04 07	704	0.5−	0.5+
1998 12 17	704	0.5+	0.4−	2000 04 05	691	0.5−	0.4−	2000 04 07	704	0.4−	0.1−
1998 12 17	704	1.3+	0.7−	2000 04 05	704	0.5+	0.6−	2000 04 07	704	0.1+	0.4−
1999 01 16	704	0.9+	0.8+	2000 04 05	704	0.7+	0.3+	2000 04 08	704	1.1+	1.1+
1999 01 16	704	(1.8+	2.1+)	2000 04 06	704	0.1−	0.3+	2000 04 08	704	0.8−	0.8+
1999 01 16	704	0.3+	0.9−	2000 04 06	704	0.3+	0.0	2000 04 08	704	0.7−	0.2−
1999 01 16	704	1.7−	0.3+	2000 04 06	704	0.2+	0.2+				

2000 GK₇₃ = 1998 WH₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	335.33282		(2000.0)	P	Q
<i>n</i>	0.29240005	ω	205.53630	−0.70202212	+0.71138070
<i>a</i>	2.2481110	Ω	19.93042	−0.63555046	−0.60479056
<i>e</i>	0.1016785	<i>i</i>	5.58972	−0.32131069	−0.35800262
<i>P</i>	3.37	<i>H</i>	14.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 11 21	704	1.1+	0.4−	2000 02 10	704	0.8+	0.7−	2000 04 06	704	0.3+	0.1−
1998 11 21	704	0.1−	0.5+	2000 02 10	704	0.8+	0.9+	2000 04 07	704	0.1−	0.2+
1998 11 21	704	1.8+	0.4−	2000 03 01	703	0.1+	0.1−	2000 04 07	704	0.0	0.8+
1998 11 21	704	0.6−	1.1−	2000 03 01	703	0.0	0.3−	2000 04 07	704	0.3−	1.1+
1998 11 21	704	(0.3−	2.2−)	2000 03 01	703	0.7−	0.2+	2000 04 07	704	0.2−	0.1+
1998 11 24	704	0.1+	0.7+	2000 03 01	703	0.1−	0.3−	2000 04 07	704	0.7−	0.8+
1998 11 24	704	0.5−	0.9+	2000 04 05	704	0.1−	0.1−	2000 04 08	704	0.1+	0.1+
1998 11 24	704	0.7−	0.7−	2000 04 05	704	0.1+	0.0	2000 04 08	704	0.1+	0.0
1998 11 24	704	1.1−	0.5+	2000 04 05	704	0.2−	0.5−	2000 04 08	704	0.1+	0.1−
1998 12 14	704	0.9+	0.5+	2000 04 05	704	0.2−	0.2−	2000 04 08	704	0.3+	0.1+

1998 12 14	704	0.5+	0.3−	2000 04 06	704	0.1+	0.2−	2000 04 08	704	0.3+	0.6+
1998 12 14	704	0.2−	1.1−	2000 04 06	704	0.1+	0.1−	2000 04 11	608	0.1−	1.0−
1998 12 14	704	1.1−	0.6+	2000 04 06	704	0.2+	0.1−	2000 04 11	608	0.2−	0.8−
2000 02 10	704	0.7−	0.5+	2000 04 06	704	0.2+	0.1+	2000 04 11	608	0.1+	0.9−

2000 GG₇₆ = 1991 TS₈ = 1998 XJ₉₇

Id. S. Nakano

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	329.99535		(2000.0)	P	Q
<i>n</i>	0.18564829	ω	231.97071	−0.40708959	+0.91337290
<i>a</i>	3.0432811	Ω	14.01001	−0.83101929	−0.36796779
<i>e</i>	0.1667512	<i>i</i>	1.25255	−0.37905806	−0.17421148
<i>P</i>	5.31	<i>H</i>	13.6	<i>G</i> 0.15	<i>U</i> 1

Residuals in seconds of arc

1991 10 01	691	0.5−	0.6+	1998 12 14	303	0.4+	1.3+	2000 04 06	704	1.5+	0.8+
1991 10 01	691	0.5−	0.5+	1998 12 14	303	0.1+	0.5+	2000 04 06	704	1.5+	0.6−
1991 10 01	691	0.1−	0.6+	2000 04 01	417	0.2−	0.5+	2000 04 07	704	0.0	1.0+
1991 10 13	691	0.1+	0.2+	2000 04 01	417	0.1−	1.1+	2000 04 07	704	0.5−	0.7+
1991 10 13	691	0.3−	0.4+	2000 04 03	417	0.5−	0.3−	2000 04 07	704	0.4+	0.3+
1991 10 13	691	0.2+	0.4+	2000 04 03	417	0.7−	1.0+	2000 04 07	704	0.2+	0.5+
1994 03 04	033	0.7−	1.2−	2000 04 05	704	0.3+	0.2+	2000 04 08	417	0.0	0.3+
1994 03 04	033	0.2−	1.2−	2000 04 05	704	0.4−	0.0	2000 04 08	417	0.2−	0.6+
1998 12 11	303	0.1−	0.6+	2000 04 05	704	0.2−	0.2+	2000 04 13	608	0.4+	0.2+
1998 12 12	303	0.0	0.2+	2000 04 05	704	0.8−	0.3−	2000 04 13	608	0.2+	0.7−
1998 12 12	303	0.2−	0.1−	2000 04 06	704	0.3+	0.1−	2000 04 13	608	0.3−	0.5−
1998 12 13	303	0.4+	0.1+	2000 04 06	704	0.1+	0.9−				
1998 12 13	303	0.3+	0.6+	2000 04 06	704	0.0	0.4−				

2000 GX₇₆ = 1989 VC₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	317.35091		(2000.0)	P	Q
<i>n</i>	0.24189953	ω	43.15332	−0.22243509	+0.97264658
<i>a</i>	2.5510131	Ω	214.15552	−0.92380079	−0.23221578
<i>e</i>	0.1476618	<i>i</i>	6.84784	−0.31163238	−0.00587103
<i>P</i>	4.07	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1989 11 03	675	1.0−	0.1+	1998 12 22	704	1.0−	0.3−	2000 04 06	704	0.0	0.1+
1989 11 03	675	0.8+	0.9−	1999 01 20	704	(0.4−	2.3−)	2000 04 06	704	0.1−	0.2−
1989 11 04	675	0.2−	0.3−	1999 01 20	704	1.6+	0.1−	2000 04 07	704	0.1+	0.3−
1989 11 04	675	0.8+	0.3−	1999 01 20	704	1.2+	0.3−	2000 04 07	704	0.5−	0.3+
1998 12 15	704	1.0−	0.0	1999 01 20	704	1.3+	0.2+	2000 04 07	704	0.3−	0.2−
1998 12 15	704	0.0	1.0+	2000 04 05	704	0.3+	0.3−	2000 04 07	704	0.2+	0.1−
1998 12 15	704	0.6−	0.5−	2000 04 05	704	0.3+	0.1+	2000 04 07	704	0.2−	0.2−
1998 12 15	704	0.7+	0.3−	2000 04 05	704	0.1+	0.2+	2000 04 08	704	0.3−	0.4−
1998 12 22	704	(0.1+	2.9+)	2000 04 05	704	0.3+	0.3+	2000 04 08	704	0.1−	0.5−
1998 12 22	704	0.0	1.4+	2000 04 06	704	0.4+	0.1+	2000 04 08	704	0.2−	0.4+
1998 12 22	704	1.1−	0.2+	2000 04 06	704	0.2+	0.0	2000 04 08	704	0.6−	0.3−
1998 12 22	704	1.0−	1.1−	2000 04 06	704	0.4+	0.0	2000 04 08	704	0.4−	0.4−

2000 GV₇₈ = 1994 GX₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	345.73562		(2000.0)	P	Q
<i>n</i>	0.17350997	ω	48.37151	−0.74709779	+0.66470006
<i>a</i>	3.1836093	Ω	173.28373	−0.62033555	−0.69486560
<i>e</i>	0.1948500	<i>i</i>	2.12028	−0.23880682	−0.27447337
<i>P</i>	5.68	<i>H</i>	12.9	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 04 03	033	1.1−	0.0	2000 04 05	704	0.2+	0.2+	2000 04 06	704	0.4+	0.5+
1994 04 03	033	0.3+	0.6+	2000 04 05	704	0.0	0.4+	2000 04 06	704	0.4−	0.8+
1994 04 03	033	0.8+	0.0	2000 04 06	704	0.1+	0.2−	2000 04 16	608	0.1+	0.4−
1994 04 04	033	0.0	0.6−	2000 04 06	704	0.1−	0.1−	2000 04 16	608	0.0	0.3−
2000 04 05	704	0.0	0.4−	2000 04 06	704	0.2−	0.1+	2000 04 16	608	0.0	0.5−

2000 APR. 18

M.P.C. 40263

2000 GO₈₁ = 1992 OJ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	296.51520		(2000.0)	P		Q					
<i>n</i>	0.22834294	ω	153.73438	+0.18714436		+0.98189868					
<i>a</i>	2.6510077	Ω	127.03802	-0.90758684		+0.18419690					
<i>e</i>	0.1369305	<i>i</i>	2.09556	-0.37584985		+0.04411899					
<i>P</i>	4.32	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	6				
Residuals in seconds of arc											
1992 07 24	809	0.3+	0.3+	2000 04 05	704	0.6+	0.3-	2000 04 07	704	0.5-	0.7+
1992 07 24	809	0.4-	0.0	2000 04 05	704	(2.6+	1.2+)	2000 04 07	704	0.7-	0.8+
1992 07 24	809	1.8-	0.2-	2000 04 06	704	0.1-	0.2-	2000 04 07	704	0.1-	0.8+
1992 07 26	809	0.2+	0.3+	2000 04 06	704	0.1+	0.2-	2000 04 07	704	0.6-	0.4+
1992 07 26	809	0.6-	0.2-	2000 04 06	704	0.2-	0.1-	2000 04 12	608	0.3+	0.7-
1992 07 26	809	0.9-	1.0-	2000 04 06	704	0.3-	0.1+	2000 04 12	608	0.4+	0.4-
2000 04 05	704	0.6+	0.2-	2000 04 06	704	0.7+	0.1+	2000 04 12	608	0.1-	0.5-
2000 04 05	704	0.1+	0.1+	2000 04 07	704	0.3-	0.4-				

2000 GA₈₂ = 1998 QF₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	341.52508		(2000.0)	P		Q	
<i>n</i>	0.36838450	ω	10.06219	-0.90879068	+0.40389300		
<i>a</i>	1.9272371	Ω	195.12052	-0.40527717	-0.91415277		
<i>e</i>	0.0848302	<i>i</i>	23.67344	-0.09924673	+0.03457089		
<i>P</i>	2.68	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	3
Residuals in seconds of arc							
1998 08 24	704	0.3+	1.3-	1998 10 14	704 (2.6+ 0.2+)	2000 04 08	704 0.0 0.0
1998 08 24	704	0.0	0.5-	1998 10 14	704 (0.9- 2.2+)	2000 04 08	704 0.3+ 0.2+
1998 08 24	704	1.3+	0.4+	1998 10 14	704 0.5- 1.0-	2000 04 08	704 0.2+ 0.6+
1998 08 24	704	0.4-	1.4+	1998 10 14	704 0.5- 1.8+	2000 04 08	704 0.4+ 0.3+
1998 08 24	704 (2.6- 2.1-)		1998 10 14	699 0.8- 0.5-		2000 04 08	704 0.5+ 0.7+
1998 08 27	704	1.2-	0.0	1998 10 14	699 0.1- 0.6-	2000 04 13	704 0.7- 0.5+
1998 08 27	704	0.8-	0.5-	1998 10 14	699 0.2+ 1.0+	2000 04 13	704 0.2+ 0.1+
1998 08 27	704	0.1+	0.1-	2000 03 14	704 0.4- 0.3+	2000 04 13	704 0.1- 0.5-
1998 08 27	704	1.0-	1.3+	2000 03 14	704 0.1- 0.3+	2000 04 13	704 0.4- 1.8+
1998 08 27	704	1.6+	0.3+	2000 03 14	704 0.6- 0.0	2000 04 13	608 0.2+ 1.4-
1998 09 18	699	0.4-	0.2+	2000 03 14	704 0.5- 0.3+	2000 04 13	608 0.0 0.9-
1998 09 18	699	0.2-	0.4+	2000 03 14	704 0.5- 0.5-	2000 04 13	608 0.2- 1.3-
1998 09 18	699	0.7+	0.1-	2000 04 07	704 0.0 0.1+	2000 04 15	704 0.1+ 1.1-
1998 09 19	704	0.3+	0.8-	2000 04 07	704 0.1+ 0.2-	2000 04 15	704 0.0 0.2-
1998 09 19	704	1.1+	0.4+	2000 04 07	704 0.3+ 0.1+	2000 04 15	704 0.6- 0.3+
1998 09 19	704	0.3+	1.1-	2000 04 07	704 0.6+ 0.5+		
1998 10 14	704 (1.7- 2.0-)		2000 04 07	704 0.9+ 0.3+			

2000 GK₈₅ = 1996 QF₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	274.39904		(2000.0)	P		Q					
<i>n</i>	0.17994103	ω	126.63645	+0.28671794	+0.94822616						
<i>a</i>	3.1072956	Ω	158.74678	−0.95431162		+0.29521671					
<i>e</i>	0.0335119	<i>i</i>	22.13819	−0.08415559		−0.11710785					
<i>P</i>	5.48	<i>H</i>	12.5	<i>G</i>	0.15	<i>U</i>	5				
Residuals in seconds of arc											
1996 08 18	010	0.2−	0.4+	2000 04 03	704	0.6−	0.1−	2000 04 08	704	0.9+	0.6−
1996 08 18	010	0.1+	0.5+	2000 04 03	704	0.4−	0.1+	2000 04 08	704	0.1−	0.7−
1996 08 18	010	0.1+	0.5+	2000 04 03	704	0.9−	0.1+	2000 04 14	704	0.2−	0.4−
1996 08 20	010	0.0	0.1−	2000 04 03	704	0.7−	0.4+	2000 04 14	704	0.5+	0.2+
1996 08 20	010	0.2−	0.1+	2000 04 08	704	0.1+	0.0	2000 04 14	704	0.2+	0.4−
1996 08 20	010	0.2+	1.4−	2000 04 08	704	0.1+	0.3+	2000 04 14	704	0.8+	0.3+
2000 04 03	704	0.4−	0.1−	2000 04 08	704	0.3+	0.1−	2000 04 14	704	0.4+	1.0+

2000 GS₈₅ = 1990 MQ = 1999 CN₁₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	302.83063		(2000.0)	P		Q					
n	0.17763071	ω	126.20497	-0.18756726		+0.96167242					
a	3.1341805	Ω	131.69697	-0.96508656		-0.14252701					
e	0.0244821	i	15.53758	-0.18282901		-0.23424817					
P	5.55	H	12.4	G	0.15	U	4				
Residuals in seconds of arc											
1990 06 18	675	0.6+	1.0-	1999 02 11	699	0.5+	0.1-	2000 04 08	704	0.4+	0.2+
1990 06 18	675	1.4+	0.3+	1999 02 11	699	0.5+	0.0	2000 04 08	704	0.1+	0.3-
1990 06 21	675	1.0-	1.2+	1999 02 13	704	0.4+	0.1-	2000 04 08	704	0.0	0.3+
1990 06 21	675	1.0-	0.2+	1999 02 13	704	0.1-	0.5+	2000 04 14	704	0.5+	0.1-
1999 02 10	704	0.2-	0.4-	1999 02 13	704	0.2-	0.2+	2000 04 14	704	0.3-	0.6-
1999 02 10	704	0.8-	0.2+	1999 02 13	704	0.2-	0.3+	2000 04 14	704	0.2+	0.2+
1999 02 10	704	0.0	0.1-	1999 02 13	704	0.1+	0.5+	2000 04 14	704	0.5-	0.4-
1999 02 10	704	0.8-	0.1-	2000 04 03	704	0.1-	0.3+	2000 04 14	704	0.5+	1.3-
1999 02 10	704	0.3-	0.1+	2000 04 03	704	0.3-	0.7+				
1999 02 11	699	1.0+	0.4-	2000 04 03	704	0.4-	0.8+				

2000 GT₈₅ = 1990 RL₁₁ = 1999 CP₈₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	307.34665		(2000.0)	P			Q				
n	0.17710193	ω	134.11639	−0.03849919			+0.98092835				
a	3.1404160	Ω	132.64354	−0.97475394			+0.00509828				
e	0.1675679	i	15.01097	−0.21993767			−0.19430283				
P	5.57	H	12.5	G	0.15	U	4				
Residuals in seconds of arc											
1990 09 14	675	0.2−	0.2+	1999 02 11	699	0.1−	0.2+	2000 04 08	704	0.1−	0.0
1990 09 14	675	0.3+	0.6−	1999 02 12	704	0.4−	0.0	2000 04 08	704	0.1+	0.3+
1999 02 10	704	0.4−	0.5−	1999 02 12	704	0.8+	1.0−	2000 04 08	704	0.6−	0.8+
1999 02 10	704	0.0	0.1−	1999 02 12	704	0.6+	0.3+	2000 04 14	704	1.2+	0.2−
1999 02 10	704	0.5−	0.7−	1999 02 12	704	0.4+	0.0	2000 04 14	704	0.3−	0.1−
1999 02 10	704	0.5−	0.6+	1999 02 12	704	1.7+	1.9−	2000 04 14	704	0.6+	1.0−
1999 02 10	704	0.8−	0.7+	2000 04 03	704	0.2+	0.1−	2000 04 14	704	0.7−	0.5−
1999 02 11	699	0.0	0.9+	2000 04 03	704	0.1−	0.2+				
1999 02 11	699	0.8−	1.2+	2000 04 03	704	0.2−	0.4+				

2000 GR₈₇ = 1997 WD₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	268.66526		(2000.0)	P		Q					
n	0.18331748	ω	225.98675	+0.34372664		+0.92488143					
a	3.0690229	Ω	64.76540	-0.80194414		+0.37920444					
e	0.0643499	i	10.35693	-0.48860781		+0.02825498					
P	5.38	H	14.0	G	0.15	U	5				
Residuals in seconds of arc											
1997 11 25	691	0.3+	0.6-	2000 04 04	704	0.3+	0.2+	2000 04 08	704	1.0+	1.1+
1997 11 25	691	0.2+	0.5+	2000 04 04	704	0.6-	0.3-	2000 04 08	704	0.2-	0.7-
1997 11 25	691	0.2+	0.1+	2000 04 04	704	0.6+	0.5+	2000 04 12	608	0.1+	0.4-
1997 11 30	691	0.4-	0.3-	2000 04 04	704	0.0	0.4+	2000 04 12	608	0.1+	0.5-
1997 11 30	691	0.1-	0.0	2000 04 08	704	0.1+	0.4+	2000 04 12	608	0.1+	0.9-
1997 11 30	691	0.3-	0.2+	2000 04 08	704	0.7-	1.0+				
2000 04 04	704	0.2-	0.6-	2000 04 08	704	0.5-	0.3-				

2000 GU₈₇ = 1997 WT₄₉ = 1999 CU₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	266.38271		(2000.0)	P		Q		Williams	
<i>n</i>	0.21304260	ω	215.35784	+0.62156439	+0.76888229				
<i>a</i>	2.7764621	Ω	93.55355	-0.67970561	+0.62449150				
<i>e</i>	0.2136889	<i>i</i>	8.63936	-0.38943291	+0.13722384				
<i>P</i>	4.63	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1997 11 26	704	(4.7− 2.8−)	2000 04 04	699	0.7− 0.2+	2000 04 08	704	0.3+ 1.8−
1997 11 26	704	(4.6− 2.4−)	2000 04 04	699	0.7− 0.1+	2000 04 11	683	0.4− 0.5+
1997 11 26	704	(5.2− 2.3−)	2000 04 04	704	0.5− 0.8+	2000 04 11	683	0.3− 0.6+
1997 12 04	704	0.1− 0.2−	2000 04 04	704	0.6− 0.3+	2000 04 11	683	0.3− 0.3+
1997 12 04	704	0.1+ 0.6+	2000 04 04	699	0.7− 0.3+	2000 04 11	683	0.5+ 0.1+
1997 12 04	704	0.3+ 0.1+	2000 04 04	704	0.8− 0.5+	2000 04 11	683	0.5+ 0.2+
1997 12 04	704	0.1− 0.3+	2000 04 04	699	0.6− 0.3+	2000 04 11	683	0.6+ 0.0
1997 12 04	704	0.8− 1.0+	2000 04 04	704	0.5− 0.1+	2000 04 12	683	1.2+ 0.1+
1999 02 10	704	0.8+ 0.3−	2000 04 04	704	0.4− 0.3+	2000 04 12	683	0.2− 0.6−
1999 02 10	704	(2.6+ 0.5+)	2000 04 08	704	0.1− 0.2−	2000 04 12	683	0.6+ 0.0
1999 02 10	704	0.6− 0.5−	2000 04 08	704	0.4+ 0.5−	2000 04 13	704	0.3+ 0.1+
1999 02 10	704	0.7+ 0.6−	2000 04 08	683	0.2+ 0.6+	2000 04 13	704	0.6+ 0.3+
1999 02 13	704	1.5− 0.1−	2000 04 08	683	0.2+ 0.2+	2000 04 13	704	0.1+ 0.3+
1999 02 13	704	0.7− 0.9−	2000 04 08	704	0.3+ 1.2−	2000 04 13	704	0.3+ 0.3+
1999 02 13	704	0.3+ 0.0	2000 04 08	683	0.2+ 0.5+	2000 04 13	704	0.1− 0.5+
1999 02 13	704	0.9+ 0.9+	2000 04 08	704	1.2+ 1.3−			

2000 GW₈₇ = 1995 YK₂₃ = 1998 XL₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.25095		(2000.0)		P		Q
<i>n</i>	0.29892475	ω	182.47373		+0.30240432		+0.94635513
<i>a</i>	2.2152775	Ω	105.14582		−0.87248772		+0.32292159
<i>e</i>	0.1812943	<i>i</i>	6.77410		−0.38381872		+0.01155952
<i>P</i>	3.30	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1995 12 20	566	1.2+ 0.1−	2000 03 08	704	0.8+ 1.0+	2000 04 11	683	0.4− 0.3+
1995 12 20	566	0.5+ 0.2−	2000 03 08	704	(0.2+ 2.1+)	2000 04 11	683	0.4− 0.1−
1995 12 20	566	0.7+ 0.2−	2000 04 04	704	0.6+ 0.0	2000 04 11	683	0.4+ 0.0
1995 12 24	566	1.3− 0.2−	2000 04 04	704	0.3− 0.4−	2000 04 11	683	0.7+ 0.3−
1995 12 24	566	1.3− 0.4−	2000 04 04	704	0.6− 0.3−	2000 04 11	683	0.3+ 0.3−
1995 12 24	566	0.1+ 0.1−	2000 04 04	704	0.3− 0.0	2000 04 12	683	0.3− 0.6−
1998 12 15	704	0.1− 0.1−	2000 04 04	704	0.3− 0.1−	2000 04 12	608	0.3+ 0.3−
1998 12 15	704	0.3+ 0.3−	2000 04 07	699	0.5− 0.0	2000 04 12	683	0.6+ 0.1−
1998 12 15	704	1.8− 1.4+	2000 04 07	699	0.4− 0.2−	2000 04 12	608	0.5+ 0.2−
1998 12 15	704	0.1− 0.0	2000 04 07	699	0.5− 0.2−	2000 04 12	683	0.4+ 0.4−
1998 12 22	704	0.9+ 1.1−	2000 04 07	699	0.6− 0.2+	2000 04 12	608	0.1+ 0.3−
1998 12 22	704	1.8+ 0.8+	2000 04 08	704	0.3− 0.7+	2000 04 13	704	0.5+ 1.5−
1998 12 22	704	1.1− 0.3+	2000 04 08	704	0.5+ 1.2+	2000 04 13	704	0.0 0.4+
1998 12 22	704	(0.6− 2.2+)	2000 04 08	704	0.2+ 1.1+	2000 04 13	704	0.0 0.1−
2000 03 08	704	0.6− 0.3−	2000 04 08	704	(0.0 2.3+)	2000 04 13	704	0.4− 0.1+
2000 03 08	704	0.4+ 0.4+	2000 04 08	704	(0.1− 2.3+)	2000 04 13	704	0.1+ 0.3+
2000 03 08	704	0.3+ 0.1+	2000 04 11	683	0.6− 0.2+			

2000 GF₈₈ = 1995 EJ = 1999 BC₂₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	114.12850		(2000.0)		P		Q
<i>n</i>	0.21441766	ω	287.92835		+0.24847311		−0.96724713
<i>a</i>	2.7645791	Ω	147.54284		+0.92129287		+0.21944044
<i>e</i>	0.0324309	<i>i</i>	5.55012		+0.29913300		+0.12758872
<i>P</i>	4.60	<i>H</i>	13.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1995 03 05	411	0.4− 0.1−	1999 01 18	704	0.1− 0.7+	2000 04 04	704	0.2+ 0.5+
1995 03 05	411	0.3+ 1.3+	1999 01 18	704	1.6− 0.8+	2000 04 08	704	0.4+ 0.5+
1995 03 07	411	0.4− 0.8−	1999 01 20	704	0.9+ 1.7−	2000 04 08	704	0.3+ 0.8−
1995 03 07	411	0.7− 0.9−	1999 01 20	704	1.3+ 0.5−	2000 04 08	704	1.0+ 0.2−
1995 03 08	411	1.1+ 0.6+	1999 01 20	704	1.1+ 0.1+	2000 04 08	704	0.2+ 1.1−
1995 03 08	411	0.6− 0.5+	2000 03 15	691	0.1+ 0.3−	2000 04 08	704	0.2+ 1.4−
1995 03 08	411	0.6− 0.8+	2000 03 15	691	0.1+ 0.4−	2000 04 13	704	1.0+ 0.4+
1995 03 11	411	1.3+ 0.5+	2000 03 15	691	0.1− 1.3−	2000 04 13	704	0.4− 0.1−
1995 03 11	411	0.3+ 0.6−	2000 04 04	699	0.7− 0.5+	2000 04 13	704	0.7− 0.2−
1998 12 15	704	0.1+ 0.2−	2000 04 04	699	0.6− 0.7+	2000 04 13	704	0.4+ 0.5+
1998 12 15	704	1.4+ 0.0	2000 04 04	704	0.0 0.4−	2000 04 13	704	0.9− 0.2−
1998 12 15	704	(2.6+ 0.8+)	2000 04 04	704	0.5+ 0.6+	2000 04 13	608	(0.7+ 2.5−)

1998 12 15	704	0.8− 1.2+	2000 04 04	699	0.7− 0.7+	2000 04 13	608	(0.7+ 2.6−)
1998 12 15	704	0.3− 0.1+	2000 04 04	704	0.0 0.1+	2000 04 13	608	(0.5+ 2.3−)
1999 01 18	704	1.1− 1.2−	2000 04 04	699	0.7− 0.6+			
1999 01 18	704	0.8− 0.0	2000 04 04	704	0.2− 0.2+			

2000 GS₈₈ = 1999 AH₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	63.42599		(2000.0)		P		Q
<i>n</i>	0.17132443	ω	346.21807		−0.54116300		−0.83324427
<i>a</i>	3.2106269	Ω	136.39270		+0.78626285		−0.54917232
<i>e</i>	0.0863072	<i>i</i>	9.45852		+0.29821694		−0.06413848
<i>P</i>	5.75	<i>H</i>	13.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 01 13	725	0.4+ 0.1+	2000 04 04	699	0.1− 0.7−	2000 04 07	699	1.2− 0.3−
1999 01 13	725	0.1+ 0.0	2000 04 04	704	0.6− 0.3−	2000 04 08	704	0.4− 1.2+
1999 01 15	725	0.4− 0.1−	2000 04 04	699	0.5− 0.1+	2000 04 08	704	1.3+ 0.6+
1999 01 15	725	0.1− 0.0	2000 04 04	704	0.3− 0.2+	2000 04 08	704	1.0+ 1.7+
2000 03 08	704	0.1− 0.7−	2000 04 04	699	0.4− 0.1−	2000 04 13	704	0.3+ 0.9−
2000 03 08	704	0.3− 0.4−	2000 04 04	704	1.9+ 1.6+	2000 04 13	704	1.1+ 1.4−
2000 03 08	704	0.0 0.2−	2000 04 04	704	0.4+ 0.6+	2000 04 13	704	0.8− 1.2−
2000 03 08	704	0.1+ 1.1+	2000 04 07	699	0.7− 0.2−	2000 04 13	704	1.5− 0.6+
2000 04 04	699	0.1− 0.1−	2000 04 07	699	0.7− 0.1−			
2000 04 04	704	1.7+ 0.1−	2000 04 07	699	0.1+ 0.8−			

2000 GV₈₈ = 1989 CL₈ = 1998 SS₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	48.87712		(2000.0)		P		Q
<i>n</i>	0.27535619	ω	338.25182		−0.51402801		−0.85246131
<i>a</i>	2.3399477	Ω	142.49506		+0.80826422		−0.51856458
<i>e</i>	0.1898828	<i>i</i>	9.00694		+0.28720055		−0.06633622
<i>P</i>	3.58	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1989 02 09	809	0.0 0.6+	1998 09 18	910	0.2− 0.6+	2000 04 07	699	0.3− 0.4+
1989 02 09	809	0.2− 0.6+	1998 09 18	910	0.1− 0.4+	2000 04 07	699	0.7− 0.2+
1989 02 09	809	0.2− 0.5+	2000 02 08	704	0.5+ 0.8+	2000 04 08	704	0.3− 0.0
1989 02 10	809	0.1+ 0.6−	2000 02 08	704	0.7+ 0.4−	2000 04 08	704	0.1− 0.4+
1989 02 10	809	0.2+ 0.6−	2000 02 08	704	0.5+ 0.9+	2000 04 08	704	0.3− 0.2−
1989 02 10	809	0.2+ 0.6−	2000 03 08	704	0.6+ 0.2−	2000 04 08	704	0.0 0.2−
1989 02 13	809(14.1− 9.1+)		2000 03 08	704	0.4+ 1.3+	2000 04 08	704	0.8+ 0.6+
1989 02 13	809(13.7− 9.1+)		2000 03 08	704	0.3+ 0.8+	2000 04 09	699	0.7− 0.2−
1989 02 13	809(13.7− 8.8+)		2000 03 08	704	0.2+ 0.9+	2000 04 09	699	0.8− 0.1−
1996 05 21	704	0.1+ 0.1−	2000 03 08	704	0.1− 1.2+	2000 04 09	699	0.7− 0.2−
1996 05 21	704	1.0− 0.1−	2000 04 04	704	0.2− 0.6+	2000 04 09	699	0.5− 0.6+
1996 05 21	704	(2.8− 1.7+)	2000 04 04	704	0.5+ 0.8−	2000 04 13	704	0.6+ 0.5−
1996 05 21	704	0.6+ 0.6−	2000 04 04	704	0.5+ 0.0	2000 04 13	704	0.2+ 0.2−
1998 09 16	910	0.2− 0.6+	2000 04 04	704	0.1− 0.6−	2000 04 13	704	0.0 0.4−
1998 09 16	910	0.0 0.2+	2000 04 04	704	0.4+ 1.2−	2000 04 13	704	0.5+ 0.2−
1998 09 17	910	0.1− 0.3+	2000 04 07	699	0.4− 0.2−	2000 04 13	704	0.4+ 0.0
1998 09 17	910	0.1− 0.5+	2000 04 07	699	0.5− 0.3+			

2000 GX₈₈ = 1990 SJ₁₇ = 1998 XM₇₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	139.47262		(2000.0)		P		Q
<i>n</i>	0.26598169	ω	290.55286		+0.67545284		−0.72865528
<i>a</i>	2.3946105	Ω	116.43250		+0.71487767		+0.60938282
<i>e</i>	0.1143344	<i>i</i>	7.26556		+0.18086840		+0.31259248
<i>P</i>	3.71	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 09 20	675	0.1+	0.3−	1998 12 22	704	2.0−	0.5−	2000 04 07	699	0.5−	0.3+
1990 09 20	675	0.0	0.1+	1998 12 22	704	0.6+	0.5−	2000 04 08	704	0.2−	0.1+
1998 12 15	704	0.7−	1.7+	2000 04 04	704	0.1−	0.2+	2000 04 08	704	0.1+	0.4−
1998 12 15	704	0.8+	0.5−	2000 04 04	704	0.2+	1.1−	2000 04 08	704	0.1−	0.5−

2000 APR. 18

M.P.C. 40265

1998 12 15	704	0.1+	0.6−	2000 04 04	704	0.4−	0.0	2000 04 08	704	0.1−	0.1−
1998 12 15	704	0.9+	1.0+	2000 04 04	704	0.1+	0.4+	2000 04 08	704	0.3−	0.7−
1998 12 15	704	0.1−	0.5−	2000 04 04	704	0.2−	0.1+	2000 04 13	704	0.0	0.0
1998 12 22	704	0.2+	0.5+	2000 04 07	699	0.2−	0.3+	2000 04 13	704	0.2+	0.3−
1998 12 22	704	0.1−	0.5−	2000 04 07	699	0.0	0.2+	2000 04 13	704	1.0+	1.0+
1998 12 22	704	0.3+	0.3−	2000 04 07	699	0.5+	0.3+				

2000 GY₈₈ = 1997 MZ₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	276.85823		(2000.0)		P		Q
n	0.29480505	ω	190.22181		+0.36937689		+0.92376998
a	2.2358677	Ω	101.51255		−0.84515309		+0.37915342
e	0.1573068	i	5.91874		−0.38636378		+0.05377470
P	3.34	H	14.9	G	0.15	U	5

Residuals in seconds of arc

1997 06 28	704	0.7+	0.1−	1997 07 02	704	1.7−	0.7+	2000 04 07	699	0.0	0.3+
1997 06 28	704	0.3+	0.1+	2000 03 08	704	0.4+	0.2−	2000 04 08	704	0.3+	0.1−
1997 06 28	704	0.5+	0.5+	2000 03 08	704	0.4+	0.3−	2000 04 08	704	0.1+	0.3+
1997 06 29	704	0.1+	0.3−	2000 03 08	704	1.0−	0.6+	2000 04 08	704	0.8−	0.1+
1997 06 29	704	0.3−	0.1−	2000 04 04	704	0.9+	0.2−	2000 04 08	704	0.3+	0.8+
1997 06 29	704	0.1−	0.5+	2000 04 04	704	0.5+	0.1+	2000 04 08	704	1.4+	0.7−
1997 06 29	704	0.2−	0.2−	2000 04 04	704	0.3+	0.0	2000 04 13	704	0.0	0.3+
1997 06 29	704	0.3−	0.1−	2000 04 04	704	0.1+	0.9−	2000 04 13	704	0.1−	0.4−
1997 07 02	704	0.1−	0.8−	2000 04 07	699	0.3−	0.1+	2000 04 13	704	0.6−	0.4−
1997 07 02	704	0.1+	0.1−	2000 04 07	699	0.5−	0.3+	2000 04 13	704	0.1−	0.1+
1997 07 02	704	0.9+	0.1−	2000 04 07	699	0.4−	0.5+	2000 04 13	704	0.9−	0.3−

2000 GA₈₉ = 1977 EL₂ = 1990 UL₅ = 1998 XU₈₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	288.20554		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.26186452	ω	114.02322		+0.08006899		+0.99602304
a	2.4196447	Ω	160.44912		−0.95171230		+0.08804534
e	0.1017339	i	6.70596		−0.29636575		−0.01364286
P	3.76	H	13.8	G	0.15	U	1

Residuals in seconds of arc

1977 03 12	381	0.7−	1.3+	1998 11 23	704	0.4+	0.3+	2000 04 04	704	0.2−	0.2+
1977 03 12	381	1.0+	1.3−	1998 11 23	704	1.0+	0.7+	2000 04 04	699	0.8−	0.1+
1990 10 16	809	0.6−	0.7+	1998 11 23	704	(5.8−	1.4−)	2000 04 04	704	0.0	0.5+
1990 10 16	809	0.9−	0.1−	1998 12 15	704	0.7−	0.6−	2000 04 04	704	0.0	0.5+
1990 10 16	809	0.5−	0.1+	1998 12 15	704	(0.7−	2.2−)	2000 04 04	699	0.7−	0.3+
1990 10 19	809	0.2+	1.0+	1998 12 15	704	0.7−	1.0−	2000 04 04	704	0.0	0.4+
1990 10 19	809	0.3−	0.3+	1998 12 15	704	(0.2−	2.3−)	2000 04 07	699	0.4+	0.2+
1990 10 19	809	(0.5+	2.4+)	1998 12 15	704	0.8−	0.2−	2000 04 07	699	0.2+	0.5+
1990 10 20	809	(0.1+	3.8+)	1998 12 22	704	0.8+	0.6+	2000 04 07	699	0.2−	0.4−
1990 10 20	809	1.9−	1.9+	1998 12 22	704	0.4+	0.7−	2000 04 07	699	0.1−	0.2+
1990 10 20	809	(0.2−	2.6+)	1998 12 22	704	0.7+	0.7−	2000 04 08	704	0.2+	0.1+
1990 10 24	809	1.7+	0.9+	1998 12 22	704	0.6+	0.8−	2000 04 08	704	0.2−	0.5+
1990 10 24	809	1.1+	0.8+	1998 12 22	704	0.5−	0.5+	2000 04 08	704	0.3+	0.0
1990 10 24	809	0.4−	1.0−	2000 03 09	704	(2.5+	0.5−)	2000 04 08	704	0.5+	0.1−
1990 10 24	809	(2.6−	0.2+)	2000 03 09	704	1.3+	0.1−	2000 04 08	704	0.1−	0.0
1990 10 24	809	(2.2−	1.8+)	2000 03 09	704	0.4+	0.6+	2000 04 13	704	0.5+	0.0
1990 10 24	809	(3.1−	0.1−)	2000 03 09	704	0.2+	0.2+	2000 04 13	704	0.9+	0.1−
1996 03 11	691	0.6−	0.7−	2000 03 09	704	0.3−	0.6+	2000 04 13	704	0.8+	0.1+
1996 03 11	691	0.5−	0.5−	2000 04 04	699	0.7−	0.5+	2000 04 13	704	0.4+	0.5+
1996 03 11	691	0.3−	0.5−	2000 04 04	704	0.5−	0.0	2000 04 13	704	0.6+	0.1+
1998 11 23	704	0.4−	1.6+	2000 04 04	699	0.5−	0.2+				

2000 GF₈₉ = 1996 ES = 1998 UP₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	28.35523		(2000.0)		P		Q
n	0.26595387	ω	352.22859		−0.91059015		−0.41189370
a	2.3947775	Ω	163.32016		+0.38532458		−0.87594706
e	0.1034211	i	6.84187		+0.14950100		−0.25111815
P	3.71	H	14.4	G	0.15	U	3

Residuals in seconds of arc

1996 03 15	566	0.5+	0.3+	1998 11 11	704	1.7+	1.5+	2000 04 04	704	0.3+	0.7−
1996 03 15	566	0.2+	0.1−	2000 02 10	704	0.2−	0.2−	2000 04 07	699	0.3−	0.4+
1996 03 15	566	0.4+	0.1+	2000 02 10	704	1.1−	0.2−	2000 04 07	699	0.3−	0.4+
1996 03 17	566	0.7−	0.1+	2000 02 10	704	0.3+	0.7−	2000 04 07	699	0.3−	0.5+
1996 03 17	566	0.4−	0.0	2000 02 10	704	1.1+	0.8+	2000 04 07	699	0.1−	0.4+
1996 03 17	566	0.5−	0.1−	2000 03 09	704	0.7−	0.1+	2000 04 08	704	0.3−	0.5+
1996 04 19	566	0.2+	0.4−	2000 03 09	704	0.5+	0.1−	2000 04 08	704	0.1−	0.9+
1996 04 19	566	0.4+	0.1−	2000 03 09	704	0.2−	0.5+	2000 04 08	704	0.5−	0.3+
1996 04 19	566	0.1−	0.4−	2000 03 09	704	0.5+	0.7+	2000 04 08	704	0.2+	0.9+
1998 10 18	809	0.3−	0.9+	2000 04 04	699	0.2+	0.1−	2000 04 08	704	0.2−	0.6+
1998 10 18	809	0.3+	1.1+	2000 04 04	704	1.0+	0.3−	2000 04 10	608	0.0	0.5−
1998 10 18	809	0.6−	0.1+	2000 04 04	699	0.1−	0.3−	2000 04 10	608	0.0	0.3−
1998 10 19	809	0.6−	1.8−	2000 04 04	704	0.4+	0.0	2000 04 10	608	0.1−	0.4−
1998 10 19	809	1.2−	1.7−	2000 04 04	699	0.0	0.1−	2000 04 13	704	0.0	0.1−
1998 10 19	809	1.4−	0.9−	2000 04 04	704	0.1−	1.2−	2000 04 13	704	0.9+	0.9−
1998 11 11	704	1.7+	0.9+	2000 04 04	704	0.4−	0.4−	2000 04 13	704	(2.1+	1.0+)
1998 11 11	704	(2.3+	0.3+)	2000 04 04	699	0.1−	0.1−	2000 04 13	704	0.2−	0.3+

2000 GR₈₉ = 1981 UU₂₁ = 1996 HY₂₅ = 1998 XZ₃₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	9.59941		(2000.0)		P		Q
n	0.23614201	ω	127.01669		−0.98162024		−0.02204635
a	2.5923116	Ω	52.51272		−0.08125224		−0.85050419
e	0.0916654	i	13.82183		+0.17268406		−0.52550603
P	4.17	H	12.5	G	0.15	U	2

Residuals in seconds of arc

1981 10 24	675	0.3+	0.2+	1998 12 17	704	1.7+	1.0+	2000 04 07	699	0.3−	0.2+
1981 10 25	675	0.2−	0.2−	1999 11 09	703	0.7+	0.3−	2000 04 07	699	0.1−	0.3−
1981 10 26	675	1.4−	0.1+	1999 11 09	703	1.5+	1.1−	2000 04 07	699	0.3−	0.1−
1996 04 20	809	0.7+	0.4+	1999 11 09	703	0.4+	0.6+	2000 04 07	699	0.4−	0.0
1996 04 20	809	0.1+	1.3+	1999 11 09	703	0.2−	0.9+	2000 04 08	704	0.3+	0.1+
1996 04 20	809	0.4+	0.8+	2000 01 08	699	0.9+	0.4+	2000 04 08	704	0.2+	0.7+
1996 04 21	809	1.8+	0.3+	2000 01 08	699	0.0	0.0	2000 04 08	704	0.1+	0.0
1996 04 21	809	1.9+	0.3+	2000 01 08	699	1.3+	0.2+	2000 04 08	704	0.2+	0.3+
1996 04 21	809	1.2+	1.0+	2000 02 06	704	0.6+	0.2+	2000 04 08	704	0.1−	0.6+
1998 11 11	704	0.7−	0.0	2000 02 06	704	0.2+	0.1+	2000 04 10	608	0.4−	0.6−
1998 11 11	704	0.6−	0.3−	2000 02 06	704	0.6+	0.2+	2000 04 10	608	0.3−	0.5−
1998 11 11	704	0.4−	0.4−	2000 02 06	704	0.6+	0.2+	2000 04 10	608	0.6−	0.6−
1998 11 11	704	0.9−	0.3−	2000 02 06	704	0.4+	0.1+	2000 04 13	704	0.2+	0.1+
1998 12 14	704	0.0	0.5+	2000 03 25	691	0.5−	0.8−	2000 04 13	704	1.3−	0.1−
1998 12 14	704	0.5−	0.1−	2000 03 25	691	0.5−	0.7−	2000 04 13	704	0.4−	0.1−
1998 12 14	704	0.4+	0.1−	2000 03 25	691	0.4−	0.7−	2000 04 13	704	0.6−	0.3−
1998 12 14	704	0.7+	0.5−	2000 04 04	704	0.3+	0.0	2000 04 13	704	1.0−	0.3−
1998 12 17	704	0.0	0.8+	2000 04 04	704	0.0	0.4+	2000 04 15	608	1.1−	0.3−
1998 12 17	704	0.4+	0.3−	2000 04 04	704	0.0	0.5+	2000 04 15	608	1.1−	0.6−
1998 12 17	704	0.0	0.3+	2000 04 04	704	0.1−	0.3+	2000 04 15	608	1.0−	0.7−
1998 12 17	704	0.3+	0.9+	2000 04 04	704	0.1−	0.6+				

2000 GB₉₀ = 1992 AL₅ = 1998 XW₅₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	172.79902	(2000.0)		P		Q	
<i>n</i>	0.28256216	ω	267.46734	+0.93275004	-0.34708203		
<i>a</i>	2.2999941	Ω	112.82764	+0.35828478	+0.86229582		
<i>e</i>	0.1285359	<i>i</i>	6.07408	+0.04011695	+0.36875463		
<i>P</i>	3.49	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1992 01 03	033	0.0	0.1+	1998 12 16	704	0.4+	1.1-
1992 01 03	033	0.2+	0.8-	1998 12 16	704	1.7-	1.1-
1996 01 28	691	0.2+	0.1+	2000 03 09	691	0.1-	0.3-
1996 01 28	691	0.0	0.2+	2000 03 09	691	0.4-	0.7-
1996 01 28	691	0.1+	0.4+	2000 03 09	691	0.1-	0.3-
1998 12 15	704	0.1+	0.3+	2000 04 04	704	0.9-	0.1-
1998 12 15	704	0.2+	0.9+	2000 04 04	704	0.0	0.6+
1998 12 15	704	0.1+	0.3+	2000 04 04	704	0.3-	0.4-
1998 12 15	704	0.9-	0.9+	2000 04 07	699	0.0	0.3-
1998 12 15	704	0.4+	0.8+	2000 04 07	699	0.3-	0.4-
1998 12 16	704	0.4+	0.3+	2000 04 07	699	0.7-	0.6-
1998 12 16	704	0.5+	0.5-	2000 04 07	699	0.0	0.9-
1998 12 16	704	0.3+	0.6-	2000 04 08	704	0.4+	0.3+

2000 GM₉₀ = 1995 HR₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	53.14654	(2000.0)		P		Q	
<i>n</i>	0.18858649	ω	336.03885	-0.76775153	-0.63798853		
<i>a</i>	3.0115887	Ω	163.88068	+0.61700585	-0.76112131		
<i>e</i>	0.0503177	<i>i</i>	12.35352	+0.17280443	-0.11689729		
<i>P</i>	5.23	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1995 04 24	691	0.0	0.2-	2000 04 07	699	0.0	0.1-
1995 04 24	691	0.3-	0.5-	2000 04 07	699	0.2-	0.1-
1995 04 24	691	0.1-	0.3-	2000 04 07	699	0.0	0.4-
1995 04 28	691	0.5+	0.1-	2000 04 08	704	0.4-	0.2+
1995 04 28	691	0.2-	0.2-	2000 04 08	704	0.1-	0.1-
1995 04 28	691	0.0	1.2+	2000 04 08	704	0.5-	0.4-
2000 03 08	704	0.1-	0.7-	2000 04 09	699	0.7-	0.4+
2000 03 08	704	0.0	0.4+	2000 04 09	699	1.0-	0.5+
2000 03 08	704	0.4+	0.1-	2000 04 09	699	0.3-	0.0
2000 03 08	704	0.5+	0.3-	2000 04 09	699	0.8-	0.3+
2000 03 08	704	0.5-	0.3+	2000 04 11	608	0.1-	0.6-
2000 04 04	704	0.3-	0.3+	2000 04 11	608	0.3-	1.0-
2000 04 04	704	0.1-	0.7+	2000 04 11	608	0.1-	1.0-
2000 04 04	704	0.3+	0.6+	2000 04 13	704	0.1+	0.1-
2000 04 04	704	0.6+	0.8+	2000 04 13	704	0.0	0.7-
2000 04 04	704	0.1+	0.1+	2000 04 13	704	0.2-	0.2+
2000 04 07	699	0.3-	0.5-	2000 04 13	704	1.1+	0.3+

2000 GN₉₀ = 1998 UR₂₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	0.50412	(2000.0)		P		Q	
<i>n</i>	0.28891506	ω	71.08807	-0.98557922	+0.14101774		
<i>a</i>	2.2661532	Ω	116.92641	-0.16522457	-0.92130231		
<i>e</i>	0.1158277	<i>i</i>	6.02147	+0.03653012	-0.36237555		
<i>P</i>	3.41	<i>H</i>	15.2	<i>G</i>	0.15	<i>U</i>	4
Residuals in seconds of arc							
1998 10 18	809	0.9+	0.1+	2000 04 04	704	0.0	0.3+
1998 10 18	809	0.8+	0.2+	2000 04 04	704	0.7+	0.1-
1998 10 18	809	0.1+	0.2-	2000 04 08	704	0.1+	0.0
1998 10 19	809	0.1+	0.2-	2000 04 08	704	0.7-	0.1-
1998 10 19	809	1.8-	1.3-	2000 04 08	704	0.8+	0.2-
1998 10 19	809	0.2+	0.7+	2000 04 11	608	0.7-	0.8-

2000 03 08	704	0.8-	0.2-	2000 04 11	608	0.3-	0.8-	2000 04 13	704	0.0	0.1-
2000 03 08	704	0.8-	0.4+	2000 04 11	608	0.2-	1.1-	2000 04 13	704	0.5+	1.0+
2000 03 08	704	0.3+	1.1+	2000 04 13	704	0.2-	0.2-	2000 04 13	704	0.0	0.1+
2000 04 04	704	0.6+	0.1+	2000 04 13	704	0.0	0.1+	2000 04 13	704	0.2+	0.2-
2000 04 04	704	0.2-	0.6+	2000 04 13	704	0.5+	0.2-				
2000 04 04	704	0.6+	0.4-	2000 04 13	704	0.2-	0.3-				

2000 GX₉₀ = 1980 XT₂ = 1988 RR₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	245.17642	(2000.0)		P		Q	
<i>n</i>	0.22659774	ω	159.87956	+0.87164303	+0.48861275		
<i>a</i>	2.6646019	Ω	170.58461	-0.47581333	+0.86246487		
<i>e</i>	0.1744988	<i>i</i>	13.67606	-0.11764396	+0.13195428		
<i>P</i>	4.35	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1980 12 10	095	1.6+	0.7-	1998 12 26	699	0.5-	0.4-
1988 09 12	675	(2.9-	3.3-)	1999 01 15	699	1.0+	0.4+
1988 09 13	399	1.0-	0.5+	1999 01 15	699	0.7+	0.6+
1988 09 13	399	1.1-	1.0+	1999 01 15	699	0.3+	0.9+
1988 09 13	399	2.3-	0.3+	2000 01 08	699	0.4+	0.5-
1988 09 14	807	0.5+	0.0	2000 01 08	699	0.1-	0.5+
1988 09 14	675	0.1-	0.7-	2000 01 08	699	0.8-	0.5-
1988 09 14	675	0.2+	0.4-	2000 02 08	704	0.1+	0.7+
1988 09 15	807	0.6+	0.2-	2000 02 08	704	0.0	0.1+
1988 09 15	675	0.4+	0.1+	2000 02 08	704	0.3+	0.2-
1988 09 15	675	0.4+	1.2-	2000 02 11	704	(0.5+	2.2-)
1988 09 16	807	1.3+	0.7-	2000 02 11	704	0.1+	0.0
1988 10 04	807	0.5+	0.5+	2000 02 11	704	0.2+	0.8+
1995 02 25	691	1.4-	0.7-	2000 03 08	704	0.1+	0.9-
1995 02 25	691	1.2-	0.1+	2000 03 08	704	1.0+	0.1+
1995 02 25	691	1.4-	0.1-	2000 03 08	704	1.0+	0.1+
1998 12 26	699	0.4-	0.5-	2000 03 08	704	0.1-	0.2+
1998 12 26	699	0.1-	0.0	2000 03 08	704	0.4-	0.9+

2000 GJ₉₁ = 1982 VC₁₀ = 1990 VW

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	60.80823	(2000.0)		P		Q	
<i>n</i>	0.24381047	ω	344.09906	-0.39346933	-0.91240004		
<i>a</i>	2.5376661	Ω	128.93134	+0.85848201	-0.40852247		
<i>e</i>	0.2068380	<i>i</i>	8.33241	+0.32892328	-0.02521025		
<i>P</i>	4.04	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2
Residuals in seconds of arc							
1982 11 11	095	0.1-	1.9+	2000 02 08	704	0.4-	0.3+
1990 11 08	413	0.8-	1.2-	2000 02 08	704	0.1+	0.3-
1990 11 09	413	0.7-	1.6-	2000 02 08	704	0.5-	0.5+
1990 11 09	413	1.5+	0.2-	2000 03 08	704	0.2+	0.6-
1998 11 13	704	0.3+	1.2+	2000 03 08	704	0.7+	0.5-
1998 11 13	704	1.1+	1.3+	2000 03 08	704	0.0	1.1-
1998 11 13	704	0.0	0.9-	2000 03 08	704	0.8+	0.6-
1998 11 13	704	1.2-	1.0-	2000 04 04	704	0.4-	0.1-
1998 11 13	704	(0.7+	2.3-)	2000 04 04	704	0.0	0.2+
1998 12 14	699	0.8-	0.4-	2000 04 04	704	0.1-	0.1+
1998 12 14	699	0.4+	0.6+	2000 04 04	704	0.0	0.7+
1998 12 14	699	0.5+	0.2+	2000 04 04	704	0.1-	0.5+

2000 GM₉₁ = 1999 CQ₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	290.28578	(2000.0)		P		Q	
<i>n</i>	0.18222776	ω	166.69660	+0.04484703	+0.98168783		
<i>a</i>	3.0812459	Ω	105.63673	-0.93325743	+0.10728754		
<i>e</i>	0.0305295	<i>i</i>	11.08459	-0.35639768	-0.15741155		
<i>P</i>	5.41	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	6

2000 APR. 18

M.P.C. 40267

Residuals in seconds of arc

1999 02 10	704	1.0−	0.4+	2000 04 04	704	0.1+	0.1−	2000 04 09	699	0.2−	0.3−
1999 02 10	704	0.8+	1.1−	2000 04 04	704	0.6+	0.7−	2000 04 09	699	0.3−	0.0
1999 02 10	704	1.6−	1.4+	2000 04 04	704	1.2−	0.0	2000 04 09	699	0.2+	0.0
1999 02 10	704	0.8−	0.5−	2000 04 04	704	0.5+	0.2+	2000 04 13	704	0.1+	0.5+
1999 02 10	704	0.3−	0.2+	2000 04 04	704	0.2+	0.2−	2000 04 13	704	0.3+	0.3+
1999 02 13	704	0.2+	0.6−	2000 04 08	704	0.4+	0.0	2000 04 13	704	0.6−	0.7+
1999 02 13	704	0.8+	0.3−	2000 04 08	704	0.2−	0.0	2000 04 13	704	0.3−	0.3−
1999 02 13	704	0.5+	0.6+	2000 04 08	704	0.1+	0.0	2000 04 13	704	0.1−	0.3+
1999 02 13	704	1.3+	0.2−	2000 04 09	699	0.5+	0.3−				

2000 GN₉₁ = 1991 JA₃ = 1997 WG₅₂ = 1999 CU₁₂₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	250.34502		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.20952783	ω	261.52108		+0.80864643		+0.52259471
a	2.8074255	Ω	66.56855		−0.35313613		+0.79848221
e	0.2038837	i	17.12391		−0.47051654		+0.29886607
P	4.70	H	13.2	G	0.15	U	1

Residuals in seconds of arc

1991 05 12	809	0.3+	0.2+	1997 12 05	704	0.7+	1.5+	2000 04 04	704	0.5+	0.4+
1991 05 12	809	0.6+	0.9+	1997 12 05	704	(2.5+	0.3+)	2000 04 07	699	0.7−	0.4+
1991 05 12	809	0.3−	0.7−	1999 02 11	704	0.4−	0.7−	2000 04 07	699	0.2−	0.9+
1991 05 17	809	(1.5−	2.1−)	1999 02 11	704	0.7−	0.2−	2000 04 07	699	0.3−	0.8+
1991 05 17	809	(1.9−	2.2−)	1999 02 11	704	0.2−	1.2−	2000 04 07	699	0.3−	0.5+
1991 05 17	809	1.3−	1.9−	1999 02 11	704	1.2+	0.7+	2000 04 08	704	0.3−	0.1−
1997 11 29	704	1.9−	0.1+	1999 02 18	704	0.3+	0.2−	2000 04 08	704	0.7+	0.6+
1997 11 29	704	1.4−	0.4+	1999 02 18	704	1.2−	1.0−	2000 04 08	704	0.5−	0.1−
1997 11 29	704	(2.8−	0.1−)	1999 02 18	704	0.2+	1.8−	2000 04 13	704	0.0	0.1−
1997 11 29	704	1.9−	1.2+	1999 02 18	704	(2.7−	0.3+)	2000 04 13	704	0.6+	0.2+
1997 11 29	704	(2.2−	0.7+)	2000 04 04	704	0.4−	1.0+	2000 04 13	704	0.7+	1.2+
1997 12 05	704	1.3+	0.2+	2000 04 04	704	0.4+	0.7−	2000 04 13	704	1.7+	1.0−
1997 12 05	704	(2.8+	0.2+)	2000 04 04	704	0.3+	0.3+	2000 04 13	704	0.5+	0.5+
1997 12 05	704	1.3+	0.1−	2000 04 04	704	0.4+	0.3+				

2000 GP₉₁ = 1993 HF₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	317.10539		(2000.0)		$\mathbf{P}$		$\mathbf{Q}$
n	0.28235872	ω	175.13474		−0.31941551		+0.92959760
a	2.3010987	Ω	76.14752		−0.87568488		−0.21538920
e	0.1962676	i	10.91875		−0.36214600		−0.29909161
P	3.49	H	15.2	G	0.15	U	6

Residuals in seconds of arc

1993 04 16	399	(4.5−	1.9−)	2000 04 04	704	0.6+	0.8+	2000 04 07	699	0.2+	0.1+
1993 04 16	399	0.3−	0.9−	2000 04 04	704	0.7−	0.5−	2000 04 08	704	0.6−	0.1−
1993 04 19	399	0.3−	0.0	2000 04 07	699	0.1+	0.4+	2000 04 08	704	0.6−	0.3−
1993 04 19	399	0.3+	0.3+	2000 04 07	699	0.5+	0.0	2000 04 08	704	0.2+	0.4+
2000 04 04	704	0.2+	0.9−	2000 04 07	699	0.3+	0.5+				

2000 GU₉₁ = 1991 AM₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	27.89217		(2000.0)		P		Q
n	0.24066803	ω	342.67386		−0.90962508		−0.41421251
a	2.5597081	Ω	172.61626		+0.40440922		−0.90040409
e	0.1851498	i	14.31883		+0.09505471		−0.13304313
P	4.10	H	14.2	G	0.15	U	3

Residuals in seconds of arc

1991 01 07	413	0.6−	0.2+	2000 04 04	704	0.3+	0.6+	2000 04 09	699	0.6−	0.5+
1991 01 12	413	0.6+	0.3−	2000 04 04	704	0.2+	0.8−	2000 04 09	699	0.2+	0.3+
1998 11 13	704	0.4+	1.0+	2000 04 04	704	0.0	0.3−	2000 04 09	699	0.4−	0.5+
1998 11 13	704	0.5+	0.5+	2000 04 04	704	0.1−	0.1+	2000 04 09	699	0.2−	0.3+
1998 11 13	704	0.2+	0.9+	2000 04 07	699	0.1−	0.5+	2000 04 13	704	0.1−	0.0
1998 11 13	704	0.8−	0.6−	2000 04 07	699	0.3+	0.5+	2000 04 13	704	0.2−	0.1−

1998 11 13	704	(1.7−	3.4+)	2000 04 07	699	0.2−	0.1+	2000 04 13	704	0.0	0.5−
1998 11 16	566	0.2−	0.4−	2000 04 07	699	0.2+	0.1−	2000 04 13	704	0.4+	0.8−
1998 11 16	566	0.1−	0.2−	2000 04 08	704	0.0	0.0	2000 04 13	704	0.1+	0.2−
1998 11 16	566	0.0	1.0−	2000 04 08	704	0.1+	0.1−				
2000 04 04	704	0.2−	1.0−	2000 04 08	704	0.2+	0.5+				

2000 GN₉₂ = 1997 UD₁₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	36.29283		(2000.0)		P		Q
n	0.17061730	ω	304.20648		−0.79944026		−0.60071400
a	3.2194919	Ω	198.87483		+0.55724879		−0.73768679
e	0.1357275	i	1.09122		+0.22443051		−0.30815725
P	5.78	H	14.5	G	0.15	U	5

Residuals in seconds of arc

1997 10 23	691	0.1−	0.2+	2000 04 03	699	0.0	0.9+	2000 04 08	704	0.5−	0.2+
1997 10 23	691	0.2+	0.3+	2000 04 05	704	0.7+	0.1−	2000 04 08	704	0.1+	0.5+
1997 10 23	691	0.5+	0.6+	2000 04 05	704	0.2+	0.3−	2000 04 10	704	0.4+	0.3−
1997 11 01	691	0.5−	0.1−	2000 04 05	704	1.0+	0.7−	2000 04 10	704	0.8−	0.8+
1997 11 01	691	0.4−	0.0	2000 04 05	704	0.3−	0.3−	2000 04 10	704	0.1+	0.5+
1997 11 01	691	0.1−	0.1+	2000 04 05	704	0.4+	1.4−	2000 04 10	704	1.7+	1.3+
2000 03 30	691	1.0−	0.2−	2000 04 06	704	1.7+	1.1−	2000 04 10	704	0.6+	0.6+
2000 03 30	691	0.9−	0.2−	2000 04 06	704	0.3+	0.5−	2000 04 10	704	1.1+	0.9+
2000 03 30	691	0.8−	0.2−	2000 04 06	704	0.8+	1.4−	2000 04 10	704	0.6+	0.4+
2000 04 02	699	1.1+	0.5+	2000 04 06	704	0.6−	1.5+	2000 04 10	704	0.0	0.1−
2000 04 02	699	0.1+	0.1+	2000 04 08	704	0.8−	0.4−	2000 04 11	608	0.1+	0.3−
2000 04 02	699	0.1−	0.1+	2000 04 08	704	2.0−	0.0	2000 04 11	608	0.2+	1.1−
2000 04 02	699	0.2−	0.2+	2000 04 08	704	0.4+	0.8+	2000 04 11	608	0.5−	1.5−
2000 04 03	699	0.1−	0.4−	2000 04 08	704	0.7+	0.8+	2000 04 13	691	0.4−	0.1−
2000 04 03	699	1.0−	0.1+	2000 04 08	704	0.1+	1.3+	2000 04 13	691	0.9−	0.2−
2000 04 03	699	0.1−	0.5+	2000 04 08	704	0.2−	0.1−	2000 04 13	691	0.8−	0.1−

2000 GE₉₃ = 1996 LN₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	166.63815		(2000.0)		P		Q
n	0.18317138	ω	230.04117		+0.90133597		-0.42054383
a	3.0706547	Ω	154.31899		+0.43295305		+0.88147870
e	0.1101506	i	13.83342		-0.01204670		+0.21479804
P	5.38	H	12.8	G	0.15	U	5

Residuals in seconds of arc

1996 06 08	691	0.1+	0.1−	2000 04 05	704	0.3−	0.1−	2000 04 08	704	0.4−	0.2−
1996 06 08	691	0.1+	0.1−	2000 04 05	704	0.2+	1.3−	2000 04 08	704	0.2−	0.6−
1996 06 08	691	0.1−	0.1+	2000 04 07	699	0.3+	0.7+	2000 04 08	704	0.5−	0.0
1996 06 09	691	0.2−	0.2−	2000 04 07	699	0.1−	0.7+	2000 04 11	608	0.1+	0.8−
1996 06 09	691	0.1+	0.2+	2000 04 07	699	0.1−	0.2+	2000 04 11	608	0.2+	0.3+
1996 06 09	691	0.0	0.1+	2000 04 07	699	0.0	0.9+	2000 04 11	608	0.0	0.2−
2000 04 05	704	0.5+	0.0	2000 04 08	704	0.1−	0.1+				
2000 04 05	704	0.2+	0.1+	2000 04 08	704	0.1+	0.1+				

2000 GQ₉₃ = 1998 XO₃₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

M	52.21022		(2000.0)		P		Q
n	0.21359268	ω	60.25977		−0.53668403		−0.80924588
a	2.7716931	Ω	64.12414		+0.65296780		−0.57766871
e	0.1361928	i	15.40040		+0.53441866		−0.10686429
P	4.61	H	13.9	G	0.15	U	4

Residuals in seconds of arc

1998 11 24	704	0.1−	0.4+	2000 02 06	704	0.1−	0.2−	2000 04 05	704	1.4+	0.1+
1998 11 24	704	0.3−	0.1+	2000 02 06	704	0.7+	0.5−	2000 04 08	704	0.5+	0.1−
1998 11 24	704	0.1+	0.7−	2000 03 02	703	0.2+	0.3+	2000 04 08	704	0.2−	0.1−
1998 11 24	704	0.0	0.7−	2000 03 02	703	0.1+	1.2+	2000 04 08	704	0.4+	0.3−
1998 12 14	704	1.3+	0.8−	2000 03 02	703	0.4−	0.1+	2000 04 08	704	0.7+	0.4−
1998 12 14	704	0.6−	0.8−	2000 03 02	703	0.8−	0.2−	2000 04 08	704	0.7+	0.2+

1998 12 14	704	1.0−	0.7−	2000 04 04	699	0.1+	0.0	2000 04 09	699	0.4−	0.1+
1998 12 14	704	0.6−	1.1+	2000 04 04	699	0.0	0.2−	2000 04 09	699	0.4−	0.9+
1998 12 17	704	0.7+	0.4+	2000 04 04	699	0.1+	0.4−	2000 04 09	699	1.1−	0.2+
1998 12 17	704	0.2−	0.4+	2000 04 04	699	0.2−	0.0	2000 04 09	699	0.9−	1.0+
1998 12 17	704	0.1−	0.7+	2000 04 05	704	0.0	0.4−	2000 04 13	704	0.3+	0.7−
1998 12 17	704	0.7+	0.6+	2000 04 05	704	0.2+	0.7−	2000 04 13	704	0.4+	0.2−
1998 12 17	704	0.1−	0.2+	2000 04 05	704	0.2+	0.5−	2000 04 13	704	0.4−	0.1−
2000 02 06	704	1.4−	0.3−	2000 04 05	704	0.6+	0.4−	2000 04 13	704	0.5−	1.4+

2000 GR₉₃ = 1975 XJ₄ = 1988 BP₅ = 1988 EL₂ = 1998 XQ₉₂

Id. G. V. Williams, H. Kaneda (d)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	65.10218		(2000.0)		P		Q
<i>n</i>	0.17415218	ω	338.34295		−0.34675236		−0.92713378
<i>a</i>	3.1757778	Ω	131.63890		+0.88605542		−0.37347425
<i>e</i>	0.1700161	<i>i</i>	10.95908		+0.30768260		+0.03065840
<i>P</i>	5.66	<i>H</i>	13.0	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1975 12 03	095	0.1−	0.3+	1998 12 22	704	0.5−	1.2−	2000 04 07	699	0.4−	0.2−
1988 01 24	399	0.3+	2.0+	1998 12 22	704	1.1−	0.2−	2000 04 07	699	0.3−	0.5−
1988 01 24	399	1.6+	0.1−	1998 12 22	704	0.1+	0.6−	2000 04 07	699	0.1+	0.7−
1988 01 24	399	1.2+	0.5−	1998 12 22	704	0.3−	1.0−	2000 04 08	704	0.6+	0.1−
1988 01 25	399	1.3−	0.0	1998 12 22	704	0.0	0.3+	2000 04 08	704	0.3+	0.5−
1988 01 25	399	1.7−	0.2−	2000 04 04	699	0.3+	0.5−	2000 04 08	704	0.4−	0.3−
1988 01 25	399	0.0	0.2−	2000 04 04	699	0.7−	0.0	2000 04 08	704	0.8−	1.2−
1988 03 12	054	(3.3−	0.6−)	2000 04 04	699	0.3−	0.2−	2000 04 13	704	0.1+	0.5+
1988 03 12	054	(8.5−	1.3+)	2000 04 04	699	0.4−	0.0	2000 04 13	704	0.9+	1.0+
1998 12 15	704	0.4+	0.6−	2000 04 05	704	0.4+	0.6+	2000 04 13	704	0.2−	0.3+
1998 12 15	704	0.1+	0.4−	2000 04 05	704	0.5−	0.8+	2000 04 13	704	0.6−	1.0−
1998 12 15	704	0.9+	0.9+	2000 04 05	704	0.6+	0.3+	2000 04 13	704	0.4−	0.2+
1998 12 15	704	0.1+	1.0+	2000 04 05	704	1.2+	0.9+				
1998 12 15	704	0.5+	0.8+	2000 04 07	699	0.3+	0.1−				

2000 GT₉₃ = 1996 PO = 1999 CF₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	190.23206		(2000.0)		P		Q
<i>n</i>	0.19101242	ω	263.80936		+0.97404220		−0.13057742
<i>a</i>	2.9860356	Ω	103.58300		+0.18936234		+0.91759187
<i>e</i>	0.1218268	<i>i</i>	10.96618		−0.12403100		+0.37546598
<i>P</i>	5.16	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1996 08 09	566	0.7+	0.7+	1999 02 13	704	0.4−	0.3+	2000 04 07	699	0.4−	0.1+
1996 08 09	566	0.1+	0.5+	1999 02 13	704	0.1−	0.8+	2000 04 07	699	0.9−	0.1−
1996 08 09	566	0.1−	0.6+	1999 02 13	704	0.4−	0.1−	2000 04 07	699	0.9−	0.1−
1996 08 11	566	0.2+	0.3+	1999 02 13	704	0.3+	0.5−	2000 04 08	704	0.0	0.1+
1996 08 11	566	0.5−	1.9−	1999 02 13	704	0.6+	0.1+	2000 04 08	704	0.7+	0.3−
1996 08 11	566	0.1+	1.0+	2000 04 04	699	0.9−	0.4+	2000 04 08	704	0.2+	1.6−
1996 08 11	566	0.4−	2.0−	2000 04 04	699	0.3−	0.1+	2000 04 08	704	0.3−	0.2+
1996 08 11	566	0.1−	0.6+	2000 04 04	699	0.3−	0.1−	2000 04 13	704	1.2+	0.3+
1996 08 11	566	(0.9−	2.5−)	2000 04 04	699	0.4−	0.4+	2000 04 13	704	0.7+	0.6+
1999 02 10	704	0.6−	0.0	2000 04 05	704	0.3+	0.4+	2000 04 13	704	0.2−	0.2−
1999 02 10	704	0.3+	0.2−	2000 04 05	704	0.4+	0.0	2000 04 13	704	0.2−	0.0
1999 02 10	704	0.4+	0.3−	2000 04 05	704	0.7+	0.3−	2000 04 13	608	0.0	0.3−
1999 02 10	704	0.0	0.2+	2000 04 05	704	1.1+	0.3+	2000 04 13	608	0.1+	0.1−
1999 02 10	704	0.2−	0.4−	2000 04 07	699	0.6−	0.0	2000 04 13	608	0.1+	0.0

2000 GV₉₃ = 1991 PR₇ = 1999 CS₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	222.60211		(2000.0)		P		Q
<i>n</i>	0.19079636	ω	212.28064		+0.93545482		+0.31416431
<i>a</i>	2.9882894	Ω	128.54202		−0.26401750		+0.92572392
<i>e</i>	0.1106034	<i>i</i>	11.94932		−0.23498733		+0.21056117
<i>P</i>	5.17	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1991 08 06	809	1.1+	1.2−	1999 02 12	699	1.2+	0.1+	2000 04 07	699	0.1+	0.2−
1991 08 06	809	1.2+	1.3−	1999 02 13	704	1.9−	1.3−	2000 04 07	699	0.1−	0.1+
1991 08 06	809	1.0+	1.4−	1999 02 13	704	1.3−	0.1+	2000 04 07	699	0.3−	0.2−
1991 08 14	809	0.2−	1.1−	1999 02 13	704	0.8−	0.8−	2000 04 07	699	0.7−	0.0
1991 08 14	809	1.4−	1.0−	1999 02 13	704	0.1−	0.3+	2000 04 08	704	0.0	0.3−
1991 08 14	809	0.5−	0.6−	1999 02 13	704	0.4+	0.1−	2000 04 08	704	0.6+	0.0
1998 12 16	910	1.0+	1.0−	2000 03 02	703	0.1−	1.0−	2000 04 08	704	0.4+	0.1+
1998 12 16	910	0.4+	0.8−	2000 03 02	703	1.1−	1.7+	2000 04 08	704	0.2−	0.3−
1998 12 16	910	0.2+	0.5−	2000 03 02	703	0.1+	0.5+	2000 04 08	704	0.5−	0.2+
1999 01 18	691	0.3+	0.7−	2000 03 02	703	0.1+	0.9+	2000 04 09	699	0.3−	0.9−
1999 01 18	691	0.1+	0.6−	2000 04 04	699	0.4+	0.5+	2000 04 09	699	0.6−	0.1−
1999 01 18	691	0.0	0.5−	2000 04 04	699	0.7+	0.6+	2000 04 09	699	0.5−	0.4−
1999 02 10	704	0.7−	0.9−	2000 04 04	699	0.6+	0.2−	2000 04 09	699	0.6−	0.3−
1999 02 10	704	0.0	0.7−	2000 04 04	699	0.6+	0.0	2000 04 13	704	0.0	0.4−
1999 02 10	704	0.7−	0.1−	2000 04 05	704	0.3+	0.1−	2000 04 13	704	0.4+	0.2+
1999 02 10	704	0.7−	0.1+	2000 04 05	704	0.7−	0.4−	2000 04 13	704	0.5+	0.2+
1999 02 10	704	0.2+	0.1−	2000 04 05	704	0.1−	0.3−	2000 04 13	704	0.2−	0.2−
1999 02 12	699	1.1+	0.2+	2000 04 05	704	0.4−	0.2−	2000 04 13	704	0.5+	0.0
1999 02 12	699	0.9+	0.5−	2000 04 05	704	0.4+	0.7−				

2000 GD₉₄ = 1999 CA₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	278.39570		(2000.0)		P		Q
<i>n</i>	0.18261315	ω	178.15734		+0.25243615		+0.95096990
<i>a</i>	3.0769092	Ω	106.43241		−0.89013401		+0.30063833
<i>e</i>	0.0641234	<i>i</i>	10.73727		−0.37939087		−0.07261438
<i>P</i>	5.40	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1999 02 10	704	0.2+	1.8−	2000 03 02	703	0.8+	0.4−	2000 04 08	704	0.3+	0.0
1999 02 10	704	1.0+	0.2+	2000 04 05	704	0.7−	0.2+	2000 04 08	704	1.1−	0.1−
1999 02 10	704	0.0	0.8−	2000 04 05	704	0.1+	0.1+	2000 04 11	608	0.5+	0.4−
1999 02 10	704	0.1+	0.8+	2000 04 05	704	0.3−	0.5+	2000 04 11	608	0.1+	0.3−
1999 02 13	704	0.3−	0.4+	2000 04 05	704	0.3+	0.6−	2000 04 11	608	0.4+	0.4−
1999 02 13	704	0.3−	1.4+	2000 04 05	704	0.1−	0.1−	2000 04 13	704	0.4−	0.0
1999 02 13	704	0.3−	1.1−	2000 04 07	699	0.1−	0.2+	2000 04 13	704	0.6−	0.1+
1999 02 13	704	0.4−	0.8+	2000 04 07	699	0.4+	0.1+	2000 04 13	704	0.8+	0.3+
2000 03 02	703	0.6−	0.1+	2000 04 07	699	0.2+	0.2+	2000 04 13	704	0.1−	0.1−
2000 03 02	703	0.3−	0.7+	2000 04 07	699	0.1+	0.1−	2000 04 13	704	0.3+	0.1+
2000 03 02	703	0.0	0.5−	2000 04 08	704	0.0	0.3+				

2000 GE₉₄ = 1994 CG₁₆ = 1999 CT₉₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	248.77585		(2000.0)		P		Q
<i>n</i>	0.18683307	ω	192.34748		+0.84366671		+0.51764845
<i>a</i>	3.0304018	Ω	135.51694		−0.47366885		+0.84252665
<i>e</i>	0.1891393	<i>i</i>	11.72238		−0.25271389		+0.14895950
<i>P</i>	5.28	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1994 02 08	809	0.1+	1.6+	1999 02 13	704	1.7+	1.4+	2000 04 08	704	0.6+	0.4+
1994 02 08	809	0.8+	1.4+	1999 02 13	704	(2.2+	0.9+)	2000 04 08	704	0.3−	0.9−
1994 02 08	809	(0.1+	2.4+)	2000 03 02	703	0.8−	0.3+	2000 04 08	704	0.1−	0.1−
1994 02 10	809	1.2+	0.7+	2000 03 02	703	0.2+	0.0	2000 04 09	699	0.3+	0.9−
1994 02 10	809	0.8−	1.4+	2000 03 02	703	0.5−	0.5−	2000 04 09	699	0.1+	0.4−
1994 02 10	809	0.2+	1.2+	2000 03 02	703	0.7−	1.1−	2000 04 09	699	0.4−	0.1−

2000 APR. 18

M.P.C. 40269

1999 02 10	704	0.1−	0.7−	2000 04 05	704	0.4−	0.6+	2000 04 09	699	0.0	0.4−
1999 02 10	704	0.1+	1.2−	2000 04 05	704	0.6+	0.0	2000 04 11	608	0.4+	0.7−
1999 02 10	704	1.1−	0.4−	2000 04 05	704	0.9+	0.8+	2000 04 11	608	0.4+	0.9−
1999 02 10	704	0.4−	0.0	2000 04 05	704	0.7+	0.0	2000 04 11	608	0.1+	0.5−
1999 02 12	699	0.3−	1.8−	2000 04 07	699	0.7−	0.3+	2000 04 13	704	0.2−	0.2+
1999 02 12	699	0.4−	0.8−	2000 04 07	699	0.2−	0.8+	2000 04 13	704	0.0	0.3+
1999 02 12	699	0.7−	0.1−	2000 04 07	699	1.4−	1.2+	2000 04 13	704	0.0	0.5−
1999 02 13	704	0.5+	1.5−	2000 04 07	699	0.2+	0.3−	2000 04 13	704	0.4+	0.5+

2000 GN₉₄ = 1994 CX₁₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	242.83309		(2000.0)	P	Q
<i>n</i>	0.18526579	ω	180.48861	+0.84027627	+0.51844840
<i>a</i>	3.0474685	Ω	146.70179	−0.49643569	+0.85332896
<i>e</i>	0.0890133	<i>i</i>	16.78917	−0.21791601	+0.05514481
<i>P</i>	5.32	<i>H</i>	11.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1994 02 08	809	0.5+	0.7+	2000 02 06	704	0.6−	0.7+	2000 04 08	704	0.5+	0.1+
1994 02 08	809	0.5−	1.1+	2000 02 06	704	0.2−	0.4+	2000 04 08	704	0.2−	0.1−
1994 02 08	809	0.9−	1.0+	2000 02 06	704	0.3−	0.7+	2000 04 12	608	0.1+	1.0−
1994 02 10	809	0.5+	0.4−	2000 03 12	699	0.4−	0.3+	2000 04 12	608	0.3+	1.2−
1994 02 10	809	0.3−	0.2−	2000 03 12	699	0.0	0.1+	2000 04 12	608	0.3−	1.1−
1994 02 10	809	0.0	1.4−	2000 03 12	699	0.1+	0.9+	2000 04 13	608	0.1+	0.3−
1994 02 13	809	1.6+	0.4−	2000 03 12	699	0.2−	0.1+	2000 04 13	608	0.4+	0.4−
1994 02 13	809	0.5+	0.7−	2000 04 05	704	0.2−	0.4+	2000 04 13	608	0.1−	0.1−
1994 02 13	809	0.5−	0.1+	2000 04 05	704	0.3−	0.1+	2000 04 14	704	0.3+	0.2−
1994 02 16	010	0.9−	0.3−	2000 04 05	704	0.1−	0.2+	2000 04 14	704	0.7+	0.9+
1994 02 16	010	0.2−	0.0	2000 04 05	704	0.2+	0.2+	2000 04 14	704	0.5+	0.2−
2000 02 06	704	0.3−	0.8+	2000 04 05	704	0.3−	0.6+	2000 04 14	704	0.2−	0.2−
2000 02 06	704	0.3+	0.5−	2000 04 08	704	0.5+	0.3+	2000 04 14	704	0.7−	0.6−

2000 GY₉₇ = 1998 UD₃₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	6.47868		(2000.0)	P	Q
<i>n</i>	0.30197085	ω	277.41899	−0.98950429	−0.12301403
<i>a</i>	2.2003547	Ω	255.53709	+0.14269942	−0.91448829
<i>e</i>	0.0852452	<i>i</i>	4.49099	−0.02276255	−0.38545911
<i>P</i>	3.26	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1998 10 28	704	1.1+	0.2−	2000 03 05	608	0.1−	1.8−	2000 04 06	699	0.9+	0.0
1998 10 28	704	0.4−	0.2+	2000 03 05	608	0.5−	1.6−	2000 04 06	699	0.1−	0.3+
1998 10 28	704	0.1+	0.1+	2000 03 05	608	0.7−	1.6−	2000 04 06	699	0.3−	0.5+
1998 10 28	704	0.6−	1.7+	2000 03 14	704	0.0	0.6−	2000 04 07	704	0.6+	0.3+
1998 10 28	704	1.3−	0.3+	2000 03 14	704	0.1−	0.3−	2000 04 07	704	0.5+	0.5+
1998 10 29	704	1.0+	0.8+	2000 03 14	704	0.2−	0.2−	2000 04 07	704	0.4+	0.0
1998 10 29	704	0.9−	1.2+	2000 03 14	704	0.4−	0.9−	2000 04 07	704	0.3+	0.2+
1998 10 29	704	0.6−	1.7+	2000 03 14	704	0.1+	0.8−	2000 04 07	704	0.2+	0.4−
1998 10 29	704	0.2−	1.9−	2000 03 27	699	0.0	0.6+	2000 04 08	704	0.4+	0.4+
1998 10 29	704	(2.9−	1.8−)	2000 03 27	699	0.4+	0.8+	2000 04 08	704	0.1−	0.1+
1998 11 10	704	0.3+	0.8−	2000 03 27	699	0.3+	0.3+	2000 04 08	704	0.9+	0.3+
1998 11 10	704	0.5−	1.4+	2000 03 27	699	0.0	0.2+	2000 04 08	704	0.4+	1.3+
1998 11 10	704	0.3−	0.2+	2000 04 03	699	0.1−	0.3+	2000 04 10	704	0.0	0.3+
1998 11 10	704	1.0+	0.9−	2000 04 03	699	0.5−	0.2+	2000 04 10	704	0.3−	0.4+
2000 02 02	704	0.7−	0.9+	2000 04 03	699	0.4−	0.5+	2000 04 10	704	0.3+	0.5+
2000 02 02	704	0.3−	0.8+	2000 04 03	699	0.4−	0.3+	2000 04 10	704	0.1+	0.5+
2000 02 02	704	0.1−	0.6+	2000 04 06	699	0.2+	0.0				

2000 GC₉₈ = 1998 SR₁₅₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	54.53578		(2000.0)	P	Q
<i>n</i>	0.30483484	ω	168.21860	−0.53546136	−0.84335073
<i>a</i>	2.1865512	Ω	314.13689	+0.76966649	−0.46525893
<i>e</i>	0.0601318	<i>i</i>	3.60884	+0.34769904	−0.26887481
<i>P</i>	3.23	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1998 09 26	704	1.6+	1.4+	2000 03 04	703	0.1+	0.2−	2000 04 07	704	0.5−	0.4−
1998 09 26	704	0.9−	0.4−	2000 03 04	703	0.3−	0.2+	2000 04 07	704	0.3+	0.4+
1998 09 26	704	1.1−	0.4−	2000 04 02	699	0.0	0.3−	2000 04 07	704	0.1−	0.1+
1998 09 26	704	0.2−	0.1−	2000 04 02	699	0.3−	0.5−	2000 04 07	704	0.1−	0.5+
1998 09 27	704	1.1−	0.6+	2000 04 02	699	0.2−	0.5+	2000 04 07	704	0.3−	0.2+
1998 09 27	704	0.6+	0.3+	2000 04 02	699	0.1−	0.6+	2000 04 08	704	0.4+	0.9−
1998 09 27	704	1.0+	0.3−	2000 04 06	699	0.1−	0.1−	2000 04 08	704	0.5−	0.4+
1998 09 27	704	0.2+	1.5−	2000 04 06	699	0.1+	0.3+	2000 04 08	704	0.6+	0.1+
2000 03 04	703	0.7+	0.3−	2000 04 06	699	0.1−	0.3+	2000 04 08	704	0.2−	0.4−
2000 03 04	703	0.2+	0.1−	2000 04 06	699	0.1−	0.6+	2000 04 08	704	0.5+	1.3−

2000 GG₉₈ = 1997 TL₂₃

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	248.01597		(2000.0)	P	Q
<i>n</i>	0.21378484	ω	90.57679	+0.65787242	+0.74833862
<i>a</i>	2.7700320	Ω	220.98133	−0.73215991	+0.60909804
<i>e</i>	0.1223773	<i>i</i>	7.43055	−0.17648155	+0.26265736
<i>P</i>	4.61	<i>H</i>	13.1	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1997 10 09	691	0.5−	0.2+	2000 04 06	699	0.2+	0.1+	2000 04 08	704	0.4−	0.1+
1997 10 09	691	0.5−	0.2−	2000 04 06	699	0.5+	0.5+	2000 04 10	704	0.4+	0.6+
1997 10 09	691	0.5−	0.3−	2000 04 07	704	0.1−	0.0	2000 04 10	704	0.4+	1.1+
1997 10 11	691	0.9+	0.2+	2000 04 07	704	0.1−	0.3+	2000 04 10	704	0.1−	0.0
1997 10 11	691	0.6+	0.2+	2000 04 07	704	0.0	0.2−	2000 04 10	704	0.2−	0.9+
2000 04 02	699	0.0	0.1+	2000 04 07	704	0.2−	0.1+	2000 04 10	704	0.2+	0.9+
2000 04 02	699	0.3+	0.9−	2000 04 07	704	0.2+	0.3+	2000 04 13	691	0.1+	0.7−
2000 04 02	699	0.3+	0.3−	2000 04 08	704	0.3−	0.2+	2000 04 13	691	0.1+	0.7−
2000 04 02	699	0.1−	0.6−	2000 04 08	704	0.1−	0.4−	2000 04 13	691	0.2+	0.6−
2000 04 06	699	0.7−	0.1+	2000 04 08	704	0.4−	0.2−				
2000 04 06	699	0.1+	0.8−	2000 04 08	704	0.2−	0.1+				

2000 GF₉₉ = 1973 AB₃ = 1992 BJ₅ = 1998 WU₃₂

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	93.49274		(2000.0)	P	Q
<i>n</i>	0.26233161	ω	193.39937	+0.10951486	−0.99217168
<i>a</i>	2.4167717	Ω	250.33885	+0.91773759	+0.12412109
<i>e</i>	0.1029229	<i>i</i>	3.65399	+0.38179079	−0.01375896
<i>P</i>	3.76	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1973 01 02	095	0.1−	1.3−	2000 03 30	704	0.1−	0.4−	2000 04 08	704	0.4−	0.0
1992 01 29	675	0.0	0.3+	2000 03 30	704	0.6+	0.8+	2000 04 08	704	0.7−	0.3+
1992 01 29	675	0.2−	0.5−	2000 03 30	704	0.7−	0.2−	2000 04 08	704	0.1+	0.2+
1998 11 20	699	0.1−	1.0+	2000 04 03	699	0.3+	0.8−	2000 04 08	704	0.5−	0.6+
1998 11 20	699	0.2−	1.1+	2000 04 03	699	0.9+	0.5−	2000 04 08	704	0.2−	0.2−
1998 11 20	699	0.6−	0.9+	2000 04 03	699	0.8+	0.8−	2000 04 08	704	1.4−	0.5+
1998 11 25	691	0.0	0.2−	2000 04 03	699	0.1+	0.8−	2000 04 08	704	0.1−	0.5+
1998 11 25	691	0.1+	0.0	2000 04 07	704	0.7+	0.0	2000 04 08	704	0.0	1.0−
1998 11 25	691	0.0	0.0	2000 04 07	704	0.2+	0.2+	2000 04 08	704	(0.1+	2.7+)
2000 03 27	699	0.0	0.2+	2000 04 07	704	0.4+	0.5+	2000 04 08	704	0.1−	0.9+
2000 03 27	699	0.0	0.2+	2000 04 07	704	0.4+	0.6+	2000 04 08	704	0.9+	1.4+
2000 03 27	699	0.7−	0.1−	2000 04 07	704	0.2+	0.5−	2000 04 08	704	(0.5+	2.6+)
2000 03 27	699	0.3−	0.2+	2000 04 08	704	0.5+	0.5+				

2000 GP₁₀₂ = 1994 RM₂₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	53.85035		(2000.0)	P	Williams	Q	
<i>n</i>	0.27986798	ω	266.38663	-0.61237110		-0.78884613	
<i>a</i>	2.3147312	Ω	221.52347	+0.75299491		-0.56188413	
<i>e</i>	0.0273782	<i>i</i>	4.51506	+0.24083251		-0.24901408	
<i>P</i>	3.52	<i>H</i>	15.1	<i>G</i> 0.15		<i>U</i> 6	

Residuals in seconds of arc

1994 09 05	809	1.8-	1.5-	2000 04 02	699	0.1+	0.0	2000 04 07	704	0.0	0.6+
1994 09 05	809	1.0-	1.4-	2000 04 02	699	1.0-	0.6-	2000 04 07	704	0.2-	0.2+
1994 09 05	809	(2.5-	2.4-)	2000 04 02	699	0.5-	0.7-	2000 04 08	704	0.1+	0.6+
1994 09 06	809	(2.1+	1.4+)	2000 04 02	699	0.5-	0.7-	2000 04 08	704	0.6-	0.1+
1994 09 06	809	1.5+	1.8+	2000 04 06	699	0.1-	0.0	2000 04 08	704	0.2-	0.1-
1994 09 06	809	1.3+	1.0+	2000 04 06	699	0.1+	0.3+	2000 04 08	704	0.4+	0.7-
2000 03 30	704	0.3+	0.5-	2000 04 06	699	0.1+	0.5+	2000 04 10	704	0.2+	1.8-
2000 03 30	704	0.5+	0.1-	2000 04 06	699	0.2-	0.1+	2000 04 10	704	0.8+	0.5+
2000 03 30	704	0.7+	0.4+	2000 04 07	704	0.4-	0.1+	2000 04 10	704	0.0	0.9+
2000 03 30	704	1.0+	0.3+	2000 04 07	704	0.3-	0.2+				
2000 03 30	704	(0.6+	2.5+)	2000 04 07	704	0.2-	0.2+				

2000 GV₁₀₃ = 1999 AY₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	316.16474		(2000.0)	P	Williams	Q	
<i>n</i>	0.18344060	ω	111.86646	-0.25461773		+0.96651758	
<i>a</i>	3.0676495	Ω	143.33590	-0.90576371		-0.22682135	
<i>e</i>	0.2079309	<i>i</i>	3.05629	-0.33876528		-0.11998269	
<i>P</i>	5.37	<i>H</i>	13.6	<i>G</i> 0.15		<i>U</i> 6	

Residuals in seconds of arc

1999 01 07	691	0.4-	0.0	2000 04 07	704	0.5+	0.4-	2000 04 08	704	0.2+	1.3+
1999 01 07	691	0.5-	0.3+	2000 04 07	704	0.4+	0.4-	2000 04 08	704	0.3+	0.7+
1999 01 07	691	0.4-	0.1+	2000 04 07	704	0.1-	0.5-	2000 04 13	608	0.7-	0.2-
1999 01 14	691	0.5+	0.4-	2000 04 07	704	0.2-	0.1+	2000 04 13	608	0.5-	0.2-
1999 01 14	691	0.3+	0.2-	2000 04 08	704	0.2+	0.5-	2000 04 13	608	0.5-	0.6-
1999 01 14	691	0.5+	0.2+	2000 04 08	704	0.1-	0.5+				
2000 04 07	704	0.2+	0.6-	2000 04 08	704	0.1+	0.9+				

2000 GU₁₀₅ = 1991 GU₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	132.42595		(2000.0)	P	Williams	Q	
<i>n</i>	0.21858293	ω	167.53672	+0.49491314		-0.86643141	
<i>a</i>	2.7293458	Ω	252.76675	+0.79118842		+0.48073595	
<i>e</i>	0.0299105	<i>i</i>	3.96315	+0.35927966		+0.13486868	
<i>P</i>	4.51	<i>H</i>	13.8	<i>G</i> 0.15		<i>U</i> 6	

Residuals in seconds of arc

1991 04 08	809	1.3-	0.7+	2000 03 30	704	0.3+	0.7-	2000 04 10	704	0.0	0.8+
1991 04 08	809	2.0-	0.3+	2000 03 30	704	0.4+	0.0	2000 04 10	704	0.2+	0.1-
1991 04 08	809	2.8-	0.4+	2000 04 07	704	0.4+	0.8+	2000 04 12	704	0.3-	1.1-
1991 04 10	809	2.3+	1.0-	2000 04 07	704	0.1-	0.1-	2000 04 12	704	0.4-	0.2-
1991 04 10	809	1.1+	0.6-	2000 04 07	704	0.1-	0.1+	2000 04 12	704	1.8+	0.6+
1991 04 10	809	0.8+	1.4-	2000 04 07	704	0.6-	0.6+	2000 04 13	704	0.6+	0.3+
1991 04 19	809	1.0+	0.9-	2000 04 08	704	0.6+	0.9+	2000 04 13	704	0.6+	0.7+
1991 04 19	809	0.1+	0.2-	2000 04 08	704	0.9-	0.8+	2000 04 13	704	0.5+	0.5+
1991 04 19	809	0.4-	0.8-	2000 04 08	704	0.3+	0.2-	2000 04 13	704	0.6+	0.3-
2000 03 30	704	0.6-	1.8-	2000 04 08	704	0.4-	0.3+	2000 04 13	704	0.8-	0.8+
2000 03 30	704	0.9-	0.5-	2000 04 08	704	0.2-	0.2-				
2000 03 30	704	0.9+	0.1+	2000 04 10	704	0.5-	1.2+				

2000 GF₁₁₀ = 1996 FF₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	355.07255		(2000.0)	P	Williams	Q	
<i>n</i>	0.24111620	ω	160.78783	-0.97775380		+0.18496371	
<i>a</i>	2.5565353	Ω	30.40904	-0.20876022		-0.81219937	
<i>e</i>	0.1209248	<i>i</i>	11.27020	-0.02041284		-0.55328167	
<i>P</i>	4.09	<i>H</i>	15.7	<i>G</i> 0.15		<i>U</i> 5	

Residuals in seconds of arc

1996 03 24	809	0.4+	0.8+	2000 03 29	704	0.1+	0.5-	2000 04 08	704	0.3+	0.2-
1996 03 24	809	0.9-	0.3+	2000 04 02	699	0.3-	0.2+	2000 04 08	704	1.5+	1.5+
1996 03 24	809	1.3+	0.6+	2000 04 02	699	0.7-	0.5+	2000 04 08	704	0.4-	0.1+
1996 03 26	809	0.9+	0.1-	2000 04 02	699	0.2+	0.8+	2000 04 08	704	0.3+	1.4+
1996 03 26	809	1.1-	0.5-	2000 04 02	699	1.2-	0.3+	2000 04 10	704	0.6-	0.8-
1996 03 26	809	0.5-	1.2-	2000 04 06	699	0.1+	0.2-	2000 04 10	704	0.2-	0.6-
2000 03 29	704	0.6+	0.0	2000 04 06	699	0.5+	0.4+	2000 04 10	704	0.1-	0.6-
2000 03 29	704	0.2+	0.4-	2000 04 06	699	0.3-	0.2+	2000 04 10	704	0.5+	0.9-
2000 03 29	704	0.2+	1.5-	2000 04 06	699	0.5-	0.8+	2000 04 10	704	0.4-	0.5-

2000 GG₁₁₁ = 1991 RR₅

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	280.41595		(2000.0)	P	Williams	Q	
<i>n</i>	0.30195862	ω	242.40976	+0.11289350		+0.99255295	
<i>a</i>	2.2004142	Ω	34.16781	-0.88048340		+0.12127450	
<i>e</i>	0.1452251	<i>i</i>	4.67325	-0.46043896		+0.01145123	
<i>P</i>	3.26	<i>H</i>	14.3	<i>G</i> 0.15		<i>U</i> 3	

Residuals in seconds of arc

1991 09 13	675	0.0	0.1+	2000 01 13	699	0.1+	1.4+	2000 04 04	704	0.1+	0.0
1991 09 13	675	0.3+	0.3-	2000 03 01	703	0.2-	0.1+	2000 04 04	704	0.3+	0.1-
1991 09 16	675	0.1-	0.1-	2000 03 01	703	0.1+	0.3+	2000 04 04	704	0.1+	0.4-
1991 09 16	675	0.3+	0.8-	2000 03 01	703	0.2-	0.1+	2000 04 04	704	0.1+	0.4-
1998 11 24	704	0.7+	0.3-	2000 03 01	703	0.0	0.0	2000 04 04	704	0.1+	0.2-
1998 11 24	704	0.0	1.9-	2000 03 08	704	0.2+	0.2-	2000 04 06	699	0.1+	0.2-
1998 11 24	704	(2.4-	0.8-)	2000 03 08	704	0.0	0.5-	2000 04 06	699	0.0	0.3-
1998 11 24	704	(1.0-	2.8-)	2000 03 08	704	0.0	0.0	2000 04 06	699	0.0	0.1-
1998 12 17	704	0.1+	1.6+	2000 03 08	704	0.4+	0.0	2000 04 06	699	0.0	0.2-
1998 12 17	704	0.1-	1.1-	2000 03 08	704	0.4+	0.3+	2000 04 10	704	0.0	0.0
1998 12 17	704	(2.2-	2.4-)	2000 04 02	699	0.6-	0.1+	2000 04 10	704	0.3-	0.1+
1998 12 17	704	0.7-	0.8+	2000 04 02	699	0.4-	0.0	2000 04 10	704	0.1+	0.2-
2000 01 13	699	0.3+	0.3-	2000 04 02	699	0.5-	0.3+	2000 04 10	704	0.2-	0.3-
2000 01 13	699	0.1-	0.0	2000 04 02	699	0.6-	0.1-	2000 04 10	704	0.0	0.4-

2000 GB₁₁₃ = 1990 SE₂₅ = 1998 VT₁₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	349.52505		(2000.0)	P	Williams	Q	
<i>n</i>	0.25916025	ω	158.76608	-0.99087665		+0.11476988	
<i>a</i>	2.4364478	Ω	28.11073	-0.13476975		-0.84675946	
<i>e</i>	0.1509095	<i>i</i>	8.62359	+0.00075997		-0.51944806	
<i>P</i>	3.80	<i>H</i>	14.3	<i>G</i> 0.15		<i>U</i> 3	

Residuals in seconds of arc

1990 09 25	809	0.4-	0.9+	2000 01 08	704	1.0+	0.3-	2000 04 05	704	0.1+	0.2+
1990 09 25	809	0.5-	1.4+	2000 01 08	704	0.4+	0.7-	2000 04 07	699	0.0	0.2-
1990 09 25	809	1.2+	1.9+	2000 03 12	703	0.1-	0.5+	2000 04 07	699	0.3+	0.1+
1994 10 08	691	0.7-	0.2+	2000 03 12	703	0.4+	0.4+	2000 04 07	699	0.1+	0.4+
1994 10 08	691	0.7-	0.2+	2000 03 12	703	0.1-	0.2+	2000 04 07	699	0.3+	0.1+
1994 10 08	691	0.9-	0.0	2000 03 12	703	0.2+	0.1+	2000 04 08	704	(2.1+	0.3+)
1994 11 01	691	1.4-	0.3-	2000 03 12	704	0.0	0.4+	2000 04 08	704	0.4-	0.0
1994 11 01	691	1.1-	0.3+	2000 03 12	704	0.0	0.1+	2000 04 08	704	0.4-	0.1+
1994 11 01	691	1.1-	0.2+	2000 03 12	704	0.3-	0.2-	2000 04 08	704	0.6-	0.1+
1998 11 10	704	0.7-	1.1-	2000 03 12	704	0.4-	0.6-	2000 04 08	704	0.6-	0.3+
1998 11 10	704	0.2-	0.3-	2000 03 26	699	0.0	0.3+	2000 04 10	704	0.0	0.0
1998 11 10	704	1.2+	0.5+	2000 03 26	699	0.2-	0.3+	2000 04 10	704	0.0	0.1-
1998 11 11	704	0.5-	0.1+	2000 03 26	699	0.4-	0.2+	2000 04 10	704	0.3+	0.3+

2000 APR. 18

M.P.C. 40271

1998 11 11	704	1.2+	0.6-	2000 03 26	699	0.2-	0.5+	2000 04 10	704	0.7+	0.3+
1998 11 11	704	1.5+	0.0	2000 04 05	704	0.1+	0.1+	2000 04 10	704	0.5+	0.1+
1998 11 11	704	0.6+	1.0+	2000 04 05	704	0.1+	0.2+	2000 04 13	608	0.7+	0.3-
2000 01 08	704	0.2-	0.5+	2000 04 05	704	0.2+	0.1+	2000 04 13	608	0.5+	0.2-
2000 01 08	704	0.3-	0.4-	2000 04 05	704	0.4+	0.4+	2000 04 13	608	0.5+	0.0

2000 GM₁₁₉ = 1996 GH₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	289.50621		(2000.0)	P	Q		
<i>n</i>	0.24624648	ω	137.82757	+0.48133070	+0.87537900		
<i>a</i>	2.5209024	Ω	160.80856	-0.83638397	+0.47406117		
<i>e</i>	0.1742348	<i>i</i>	7.88244	-0.26226439	+0.09475026		
<i>P</i>	4.00	<i>H</i>	17.2	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1996 04 11	691	0.2-	0.1-	1996 04 15	691	0.0	0.4+	2000 04 07	691	0.0	0.1-
1996 04 11	691	0.1+	0.0	2000 04 03	691	0.0	0.1-	2000 04 07	691	0.2+	0.1-
1996 04 11	691	0.5-	0.2+	2000 04 03	691	0.1+	0.1+	2000 04 10	691	0.3-	0.1+
1996 04 15	691	0.3+	0.2-	2000 04 03	691	0.1+	0.0	2000 04 10	691	0.1-	0.0
1996 04 15	691	0.4+	0.2-	2000 04 07	691	0.1+	0.0	2000 04 10	691	0.1-	0.1+

2000 GB₁₂₀ = 1979 MK₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	287.24882		(2000.0)	P	Q		
<i>n</i>	0.27521555	ω	79.92191	+0.10990323	+0.99389548		
<i>a</i>	2.3407448	Ω	196.39719	-0.92478517	+0.09869444		
<i>e</i>	0.1753437	<i>i</i>	1.95836	-0.36427142	+0.04930709		
<i>P</i>	3.58	<i>H</i>	17.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1979 06 24	413	0.6-	0.1-	2000 04 05	704	0.6+	0.1-	2000 04 08	691	0.1-	0.3-
1979 06 25	413	1.0-	0.1-	2000 04 05	704	0.4-	0.5-	2000 04 08	691	0.3-	0.6-
1979 06 29	413	0.8-	0.4-	2000 04 05	704	1.4+	0.2-	2000 04 11	691	0.2-	0.2-
2000 04 05	691	0.3-	0.5+	2000 04 05	704	0.7+	0.2+	2000 04 11	691	0.3-	0.4-
2000 04 05	691	0.7-	0.3+	2000 04 05	704	0.2-	0.2-	2000 04 11	691	0.5+	1.5+
2000 04 05	691	0.3-	0.5+	2000 04 08	691	0.4-	0.3-				

2000 GV₁₂₅ = 1996 EZ₁₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	272.03408		(2000.0)	P	Q		
<i>n</i>	0.28632125	ω	161.00916	+0.68966132	+0.72217194		
<i>a</i>	2.2798188	Ω	152.51485	-0.67841829	+0.67008576		
<i>e</i>	0.1372420	<i>i</i>	6.62483	-0.25321116	+0.17161808		
<i>P</i>	3.44	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1996 01 26	691	0.1-	0.2+	1998 12 16	699	0.2-	0.6+	2000 04 12	704	0.4+	0.1-
1996 01 26	691	0.3-	0.1+	1998 12 16	699	0.1+	0.2-	2000 04 12	704	0.1-	0.4-
1996 01 26	691	0.1-	0.1-	1998 12 16	699	0.1+	0.4-	2000 04 12	704	0.1+	0.3-
1996 03 12	691	0.6-	0.1-	2000 04 07	704	0.1-	0.5-	2000 04 13	704	0.4-	0.2-
1996 03 12	691	0.6-	0.3-	2000 04 07	704	0.4-	0.7-	2000 04 13	704	0.9-	1.7+
1996 03 12	691	0.6-	0.0	2000 04 07	704	0.5+	0.6-	2000 04 13	704	0.7+	0.6-
1996 03 17	691	0.8+	0.1+	2000 04 07	704	0.0	1.9+	2000 04 13	704	0.1-	0.5-
1996 03 17	691	0.8+	0.2+	2000 04 12	704	0.5+	0.8+	2000 04 13	704	0.4-	0.1+
1996 03 17	691	0.7+	0.1-	2000 04 12	704	0.3+	0.5-				

2000 GY₁₂₆ = 1996 TW₆₃ = 1999 CB₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	0.67052		(2000.0)	P	Q		
<i>n</i>	0.19608789	ω	62.17645	-0.57698990	+0.81636551		
<i>a</i>	2.9342843	Ω	172.43450	-0.80028066	-0.55894673		
<i>e</i>	0.0935277	<i>i</i>	10.99029	-0.16319780	-0.14534753		
<i>P</i>	5.03	<i>H</i>	13.2	<i>G</i>	0.15	<i>U</i>	1

Residuals in seconds of arc

1991 10 01	691	0.1+	0.3-	1999 02 12	704	0.1+	0.4+	1999 06 06	703	0.2-	1.2+
1991 10 01	691	0.4+	0.2-	1999 02 12	704	0.3-	0.5+	1999 06 06	703	0.5+	0.2+
1991 10 01	691	0.3-	0.6-	1999 02 12	704	0.9-	0.3+	2000 04 07	704	0.6-	0.6-
1996 10 06	809	0.1+	0.4+	1999 02 16	704	0.4+	0.4-	2000 04 07	704	0.3+	0.3-
1996 10 06	809	0.3-	0.1-	1999 02 16	704	0.4-	0.5-	2000 04 07	704	0.7-	0.1-
1996 10 06	809	0.1-	0.6+	1999 02 16	704	0.1+	0.2+	2000 04 07	704	0.2+	0.5+
1996 10 07	809	0.7+	0.4+	1999 02 16	704	0.1+	0.3+	2000 04 12	704	0.1+	0.2-
1996 10 07	809	0.2-	0.5+	1999 05 08	704	(2.5-	0.3+)	2000 04 12	704	0.4+	0.7+
1996 10 07	809	0.4-	0.0	1999 05 08	704	(1.0+	2.2-)	2000 04 12	704	0.2-	0.3-
1999 01 15	699	0.7-	0.4-	1999 05 08	704	0.1+	0.1+	2000 04 12	704	0.4+	1.2-
1999 01 15	699	0.2+	0.1+	1999 05 08	704	1.4-	1.7-	2000 04 13	704	0.2+	0.3-
1999 01 15	699	0.2-	0.2+	1999 05 08	704	(4.6-	0.8-)	2000 04 13	704	0.5-	0.4+
1999 02 12	704	0.8+	0.4-	1999 06 06	703	1.2+	0.0	2000 04 13	704	0.2-	0.6+
1999 02 12	704	0.4+	0.1+	1999 06 06	703	1.0+	0.7+	2000 04 13	704	0.4+	0.9+

2000 GJ₁₃₁ = 1999 BC₂₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	304.47061		(2000.0)	P	Q		
<i>n</i>	0.23678540	ω	78.76587	+0.29604917	+0.95505324		
<i>a</i>	2.5876137	Ω	208.46867	-0.88825387	+0.26945835		
<i>e</i>	0.3253563	<i>i</i>	1.81603	-0.35122634	+0.12355366		
<i>P</i>	4.16	<i>H</i>	17.4	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1999 01 17	691	0.4+	0.6-	1999 01 18	691	0.1-	0.8+	2000 04 11	691	(3.1-	0.9+)
1999 01 17	691	0.1-	0.6-	2000 04 07	691	0.4+	0.1-	2000 04 11	691	(3.4-	1.4+)
1999 01 17	691	0.2-	0.9-	2000 04 07	691	0.2+	0.1+	2000 04 13	691	0.3+	0.4+
1999 01 18	691	0.3+	0.6+	2000 04 07	691	0.6-	0.1+	2000 04 13	691	0.2-	0.1-
1999 01 18	691	0.1-	0.6+	2000 04 11	691	(3.2-	1.2+)	2000 04 13	691	0.1-	0.3-

2000 GS₁₃₅ = 1990 UZ₇ = 1990 UM₉ = 1996 GR₂₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	25.80188		(2000.0)	P	Q		
<i>n</i>	0.25377491	ω	22.88768	-0.96846579	-0.23740127		
<i>a</i>	2.4707962	Ω	143.11923	+0.20463826	-0.93103011		
<i>e</i>	0.0842105	<i>i</i>	7.23622	+0.14211686	-0.27717066		
<i>P</i>	3.88	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1990 10 19	809	0.4-	0.2+	1996 04 14	399	0.3-	0.2-	2000 04 09	699	0.2+	0.2+
1990 10 19	809	0.2+	0.0	2000 04 07	699	0.1+	0.1-	2000 04 09	699	0.1+	0.0
1990 10 19	809	1.3-	0.9-	2000 04 07	699	0.1+	0.0	2000 04 09	699	0.0	0.3+
1990 10 24	809	1.2+	0.7+	2000 04 07	699	0.2-	0.3-	2000 04 13	704	0.0	0.6-
1990 10 24	809	0.3+	1.0+	2000 04 07	699	0.1+	0.1-	2000 04 13	704	0.4+	0.2+
1990 10 24	809	0.1-	1.0-	2000 04 08	704	0.5+	0.1+	2000 04 13	704	0.0	0.5+
1996 04 13	399	0.5-	0.5-	2000 04 08	704	(2.6-	0.7+)	2000 04 13	704	0.7-	0.8-
1996 04 13	399	0.5+	0.1+	2000 04 08	704	1.1-	1.9+	2000 04 13	704	0.1+	1.0-
1996 04 14	399	0.3+	0.4+	2000 04 09	699	0.5+	0.0				

2000 GS₁₄₂ = 1999 CC₄₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	231.88906		(2000.0)	P	Q		
<i>n</i>	0.18957312	ω	239.05638	+0.93737750	+0.29460970		
<i>a</i>	3.0011304	Ω	103.25676	-0.21693315	+0.91117099		
<i>e</i>	0.1013359	<i>i</i>	11.00565	-0.27251319	+0.28804957		
<i>P</i>	5.20	<i>H</i>	12.6	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1999 02 10	704	0.0	0.4+	1999 02 13	704	0.3-	0.2-	2000 04 09	699	0.3+	0.4+
1999 02 10	704	0.2+	0.9+	1999 02 13	704	0.2-	0.0	2000 04 09	699	0.9+	0.3+
1999 02 10	704	0.5+	0.8+	1999 02 13	704	0.5-	0.0	2000 04 09	699	0.7+	0.6+
1999 02 10	704	1.2+	0.7-	2000 04 07	699	0.1-	0.6+	2000 04 09	699	0.5+	0.7+
1999 02 10	704	1.1-	1.0-	2000 04 07	699	0.3-	0.4+	2000 04 16	608	0.4-	0.8-

M.P.C. 40272

1999 02 13	704	0.3−	0.4−	2000 04 07	699	0.2−	0.3+	2000 04 16	608	0.6−	1.4−
1999 02 13	704	0.4+	0.0	2000 04 07	699	0.0	0.2+	2000 04 16	608	0.8−	1.2−

2065 P-L = 1999 VW₁₆₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 132.27356 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.18051526	ω	16.47375	+0.40170082	+0.91257010		
<i>a</i>	3.1007025	Ω	277.26323	−0.84866284	+0.33957377		
<i>e</i>	0.1426568	<i>i</i>	4.42298	−0.34410441	+0.22782770		
<i>P</i>	5.46	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1960 09 24	675	0.2+	0.6−	1998 08 17	704	0.4+	1.5+	1999 11 16	704	0.5−	0.0
1960 09 26	675	0.3+	0.8−	1998 08 17	704	0.7+	0.2−	1999 11 16	704	1.2+	0.4+
1960 09 28	675	0.1+	0.9−	1998 08 17	704	1.1−	1.2−	1999 11 16	704	0.0	0.4−
1960 09 29	675	0.4+	0.4−	1998 08 17	704	(4.6−	0.6−)	1999 12 05	703	0.6−	1.1+
1960 10 17	675	2.2−	0.4+	1999 11 14	704	0.1−	0.6+	1999 12 05	703	0.2+	0.1+
1960 10 22	675	1.0+	0.7+	1999 11 14	704	0.6+	0.2−	1999 12 05	703	0.3−	1.3−
1960 10 25	675	0.2−	0.9+	1999 11 14	704	0.5−	0.4−	1999 12 05	703	0.1+	0.7+
1960 10 26	675	0.5+	0.3+	1999 11 14	704	0.3−	0.3−				
1998 08 17	704	0.3−	0.4+	1999 11 14	704	0.1+	0.1−				

2088 P-L

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 109.12930 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.21149260	ω	121.30292	+0.32194252	−0.94569399		
<i>a</i>	2.7900111	Ω	309.84869	+0.84754752	+0.30901577		
<i>e</i>	0.0437419	<i>i</i>	3.35267	+0.42191968	+0.10085700		
<i>P</i>	4.66	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1960 09 24	675	0.9−	0.6−	1960 10 26	675	0.0	0.2−	2000 04 06	699	0.6+	0.6−
1960 09 26	675	0.2+	0.1+	2000 03 27	699	1.1−	0.1−	2000 04 06	699	0.2+	0.1−
1960 09 28	675	0.1+	0.5+	2000 03 27	699	0.5−	0.1−	2000 04 07	704	0.2−	0.5+
1960 09 29	675	0.4+	0.3−	2000 03 27	699	0.8−	0.6+	2000 04 07	704	0.9+	0.5+
1960 10 17	675	0.2−	0.7−	2000 03 27	699	0.9−	0.1−	2000 04 07	704	(4.0+	3.7+)
1960 10 22	675	0.6+	1.0−	2000 04 06	699	0.6+	0.3−				
1960 10 25	675	0.5−	1.8+	2000 04 06	699	1.0+	0.5−				

2114 P-L = 1996 BJ₁ = 2000 EE₁₁₄

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 181.25067 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.26076212	ω	133.15656	+0.92333271	+0.38243202		
<i>a</i>	2.4264595	Ω	204.42080	−0.37215092	+0.86892295		
<i>e</i>	0.0616486	<i>i</i>	4.81127	−0.09465936	+0.31419525		
<i>P</i>	3.78	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.0	1.0+	1996 01 23	658	0.1+	0.5−	2000 03 11	699	0.4+	0.1−
1960 09 26	675	0.4−	1.0+	1996 01 23	658	1.4+	1.0+	2000 03 11	699	0.0	0.3+
1960 09 28	675	0.4+	0.2+	1998 11 11	704	0.8−	0.5+	2000 03 11	699	0.5−	0.8+
1960 09 29	675	0.6+	0.8+	1998 11 11	704	1.6+	0.1+	2000 03 11	699	0.4−	0.3+
1960 10 17	675	0.2−	0.5+	1998 11 11	704	1.4−	0.2−	2000 03 27	699	0.1+	0.1+
1960 10 22	675	1.2−	1.1−	1998 11 11	704	1.0+	0.6−	2000 03 27	699	0.0	0.2+
1960 10 25	675	(1.8−	3.8−)	1998 11 11	704	0.0	1.0−	2000 03 27	699	0.1+	0.7+
1996 01 23	711	0.4−	0.1+	2000 03 09	608	0.2−	0.3−	2000 03 27	699	1.5+	0.7+
1996 01 23	711	1.0−	0.2−	2000 03 09	608	0.1+	0.5−				
1996 01 23	658	0.3−	0.4−	2000 03 09	608	0.3−	0.2−				

2125 P-L = 2000 DH₆₂

Id. M. E. Sansaturio

2000 APR. 18

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 167.10628 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.26086572	ω	10.26770	+0.99221599	+0.12039537		
<i>a</i>	2.4258170	Ω	342.72031	−0.12049692	+0.86373340		
<i>e</i>	0.1825045	<i>i</i>	6.14919	−0.03143109	+0.48935628		
<i>P</i>	3.78	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.1+	0.2−	2000 02 25	691	0.5−	0.2−	2000 03 05	608	0.3−	0.6−
1960 09 26	675	0.3−	0.4+	2000 02 25	691	0.1+	0.5−	2000 03 05	608	0.5+	0.3−
1960 09 28	675	0.8+	0.3+	2000 02 29	704	0.2+	0.2+	2000 03 05	608	0.0	0.4−
1960 09 29	675	0.2−	0.5−	2000 02 29	704	0.5+	0.3+	2000 03 06	608	0.1−	0.7−
1960 10 25	675	1.3−	0.2−	2000 02 29	704	0.1+	0.0	2000 03 06	608	0.2+	0.9−
1960 10 26	675	0.5+	0.6+	2000 02 29	704	0.9+	0.2+	2000 03 06	608	0.2+	0.4−
1998 11 16	704	1.1+	0.9−	2000 03 03	704	0.3−	0.8+	2000 03 11	704	0.8+	0.4+
1998 11 16	704	0.7−	1.5−	2000 03 03	704	0.1−	1.0+	2000 03 11	704	0.1−	0.1+
1998 11 16	704	0.4+	0.6+	2000 03 03	704	0.2−	0.3+	2000 03 11	704	0.5+	0.1+
1998 11 16	704	0.8−	1.4+	2000 03 03	704	0.3−	0.1+	2000 03 11	704	0.8−	0.3+
2000 02 25	691	0.4−	0.0	2000 03 03	704	0.6−	0.6+				

2184 P-L = 2000 ED₉₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 358.59145 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.23822618	ω	350.61462	−0.95571057	+0.27999710		
<i>a</i>	2.5771700	Ω	206.20019	−0.25494938	−0.94153318		
<i>e</i>	0.1701729	<i>i</i>	11.84926	−0.14703100	−0.18739505		
<i>P</i>	4.14	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 24	675	0.2−	0.1−	2000 03 10	704	0.4−	0.7+	2000 04 06	704	0.2+	0.0
1960 09 28	675	0.0	0.9−	2000 03 14	704	0.6−	0.7−	2000 04 06	704	0.1+	0.1−
1960 09 29	675	0.9+	1.1+	2000 03 14	704	0.1+	0.3−	2000 04 06	704	0.1−	0.2−
1960 10 26	675	0.8−	0.2−	2000 03 14	704	0.9−	0.3+	2000 04 07	704	0.5+	1.0+
1998 12 22	704	0.0	0.1−	2000 03 14	704	0.7+	0.3+	2000 04 07	704	0.1+	0.1+
1998 12 22	704	0.0	1.2+	2000 04 05	704	0.3+	0.4+	2000 04 07	704	0.3−	0.8+
1998 12 22	704	0.9+	0.1−	2000 04 05	704	0.0	0.0	2000 04 07	704	0.0	0.2+
1998 12 22	704	0.9−	1.0−	2000 04 05	704	0.0	0.3−	2000 04 07	704	0.5+	0.7+
2000 03 10	704	0.2−	0.4−	2000 04 05	704	0.3−	0.8−	2000 04 10	608	0.5−	0.4−
2000 03 10	704	0.2+	0.3+	2000 04 05	704	0.6−	1.1−	2000 04 10	608	0.1−	0.3−
2000 03 10	704	0.7+	0.2−	2000 04 06	704	0.5+	0.0	2000 04 10	608	0.2−	0.5−
2000 03 10	704	0.0	0.4+	2000 04 06	704	0.2+	0.1+				

2598 P-L = 2000 DM₁₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i> 346.28466 (2000.0)				Williams			
		P		Q			
<i>n</i>	0.21127407	ω	151.19989	−0.99848946	+0.03536274		
<i>a</i>	2.7919347	Ω	30.91328	−0.05078860	−0.88601190		
<i>e</i>	0.0100133	<i>i</i>	4.69505	+0.02095983	−0.46231201		
<i>P</i>	4.67	<i>H</i>	14.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.5−	0.5−	2000 02 26	703	0.2−	0.3−	2000 03 12	704	0.4−	0.7+
1960 09 26	675	0.6+	0.6−	2000 02 26	703	0.1−	0.3−	2000 03 12	704	0.6−	0.4+
1960 09 28	675	0.5+	1.0+	2000 03 02	703	0.4−	0.6−	2000 03 12	704	0.0	0.5+
1960 09 29	675	0.9+	0.3−	2000 03 02	703	0.2+	1.0+	2000 03 12	704	0.1−	1.1+
1960 10 17	675	0.8−	0.7+	2000 03 02	703	0.4+	0.2+	2000 04 02	699	1.0+	0.6+
1960 10 22	675	1.1−	0.2+	2000 03 02	703	0.2−	1.1−	2000 04 02	699	0.6+	0.3+
1960 10 26	675	0.3−	0.4+	2000 03 08	608	0.3−	0.1+	2000 04 02	699	0.4+	0.5+
1998 12 17	704	0.8+	0.7+	2000 03 08	608	0.2−	0.4−	2000 04 02	699	0.1+	0.4+
1998 12 17	704	0.3+	0.1+	2000 03 08	608	0.3+	0.3−	2000 04 08	704	0.0	0.6−
1998 12 17	704	0.0	0.8−	2000 03 11	699	0.3−	0.0	2000 04 08	704	0.1+	0.2−
1998 12 17	704	0.3−	0.1−	2000 03 11	699	0.1−	0.3+	2000 04 08	704	0.0	0.7−
1998 12 17	704	0.7−	0.2−	2000 03 11	699	0.1−	0.2−	2000 04 08	704	0.6+	0.3−

2000 APR. 18

M.P.C. 40273

2000 02 26 703 0.1+ 0.3+ 2000 03 11 699 0.2- 0.1- 2000 04 08 704 0.6+ 0.8-
 2000 02 26 703 0.4- 0.2+ 2000 03 12 704 0.3- 0.1-

2662 P-L = 1999 XB₁₂₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	359.94152	ω	72.16570	+0.03332288	-0.99865447		
<i>a</i>	2.3129962	Ω	16.08102	+0.85405502	+0.00780321		
<i>e</i>	0.0701429	<i>i</i>	8.24740	+0.51911426	+0.05126746		
<i>P</i>	3.52	<i>H</i>	15.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24 675 0.3- 0.5+ 1999 10 12 704 0.6+ 0.6- 1999 12 13 703 0.2- 0.7+
 1960 09 24 675 0.3+ 0.6- 1999 12 05 699 0.1+ 0.7+ 1999 12 13 703 0.4+ 0.2-
 1960 09 26 675 0.2- 0.0- 1999 12 05 699 0.2- 0.2- 1999 12 13 703 0.4- 0.3-
 1960 09 26 675 0.2+ 0.3- 1999 12 05 699 0.8+ 0.7+ 2000 01 31 704 0.3+ 0.7-
 1960 09 28 675 0.1- 0.6+ 1999 12 07 703 0.5- 0.2+ 2000 01 31 704 0.5+ 0.4-
 1999 10 12 704 0.7+ 0.3- 1999 12 07 703 0.0 0.0 2000 01 31 704 0.9- 0.3+
 1999 10 12 704 1.0+ 0.5- 1999 12 07 703 0.5- 0.1+ 2000 01 31 704 0.4+ 0.1-
 1999 10 12 704 0.7- 0.2+ 1999 12 07 703 0.3- 0.4-
 1999 10 12 704 0.3- 0.0 1999 12 13 703 0.6- 0.2+

2706 P-L = 2000 AU₂₃₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	82.19321	ω	304.61403	+0.71036932	-0.70352415		
<i>a</i>	5.2865224	Ω	100.10639	+0.65244411	+0.64718105		
<i>e</i>	0.0699748	<i>i</i>	1.20580	+0.26399265	+0.29361617		
<i>P</i>	12.16	<i>H</i>	12.0	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 24 675 0.2- 0.6- 1995 09 22 809 0.5- 0.4+ 2000 02 03 704 0.1+ 1.3+
 1960 09 26 675 0.1+ 0.1+ 2000 01 04 704 0.2- 0.3- 2000 02 03 704 1.0+ 0.1-
 1960 09 28 675 0.2- 0.3+ 2000 01 04 704 0.9- 0.7- 2000 02 03 704 0.5+ 1.2+
 1960 09 29 675 0.3+ 0.5- 2000 01 04 704 0.1- 0.6+ 2000 02 03 704 0.3- 0.4-
 1960 10 22 675 0.9+ 0.2- 2000 01 05 691 0.2- 0.6- 2000 02 03 704 0.2+ 0.8+
 1960 10 25 675 0.5- 0.2+ 2000 01 05 691 0.3- 0.5- 2000 02 03 704 0.6- 1.2+
 1960 10 26 675 0.2+ 0.6- 2000 01 05 691 0.1- 0.4- 2000 02 03 704 0.5+ 0.9+
 1995 08 19 809 0.2- 1.2+ 2000 01 11 691 0.1- 0.7- 2000 02 03 704 0.3- 0.1-
 1995 08 20 809 (3.3- 1.4-) 2000 01 11 691 0.1+ 0.7- 2000 02 03 704 1.1+ 0.5+
 1995 09 20 809 0.3- 0.7+ 2000 01 11 691 0.1- 0.5-

2708 P-L = 2000 EM₄₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	343.09621	ω	183.05455	-0.96425700	+0.26448984		
<i>a</i>	2.4192137	Ω	12.31740	-0.24149450	-0.85251227		
<i>e</i>	0.0691360	<i>i</i>	4.28084	-0.10903602	-0.45085248		
<i>P</i>	3.76	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24 675 0.1+ 0.0 2000 03 11 704 0.2+ 0.1+ 2000 04 05 704 0.6+ 0.4+
 1960 09 26 675 0.2- 0.3+ 2000 03 11 704 0.0 0.1- 2000 04 05 704 0.4+ 0.1-
 1960 09 28 675 1.0- 0.3- 2000 03 11 704 0.1+ 0.3- 2000 04 06 704 0.5+ 0.5-
 1960 09 29 675 1.0+ 0.2- 2000 03 11 704 0.3- 0.5- 2000 04 06 704 0.4+ 0.5-
 1960 10 17 675 0.8+ 0.5- 2000 03 11 704 0.2- 0.1- 2000 04 06 704 0.1- 0.4-
 1960 10 22 675 0.6- 0.5+ 2000 03 14 703 0.1- 0.7+ 2000 04 06 704 0.2+ 0.4-
 1960 10 26 675 0.4- 0.5+ 2000 03 14 703 0.6- 0.6- 2000 04 07 699 0.5+ 0.2-
 2000 02 27 703 0.2+ 0.4+ 2000 03 14 703 0.7- 1.0- 2000 04 07 699 0.3- 0.2+
 2000 02 27 703 0.2- 0.2+ 2000 03 14 703 0.4- 0.5- 2000 04 07 699 0.0 0.6+
 2000 02 27 703 0.5- 0.3- 2000 03 26 699 0.7- 0.7+ 2000 04 07 699 0.6+ 0.5+

2000 02 27 703 0.5- 0.2+ 2000 03 26 699 0.5+ 0.7+ 2000 04 10 704 0.8- 0.7+
 2000 03 08 704 0.1+ 0.2+ 2000 03 26 699 0.9- 0.1+ 2000 04 10 704 0.7- 0.6+
 2000 03 08 704 0.2- 0.1- 2000 03 26 699 0.6- 0.2+ 2000 04 10 704 0.9+ 0.6-
 2000 03 08 704 0.7+ 0.5- 2000 04 04 704 0.3+ 0.5+ 2000 04 10 704 1.0- 0.3-
 2000 03 08 704 1.8+ 0.8+ 2000 04 04 704 0.1+ 1.0+ 2000 04 10 704 0.4+ 0.3+
 2000 03 10 704 0.0 0.0 2000 04 04 704 0.3+ 0.4+ 2000 04 12 608 0.4- 1.0-
 2000 03 10 704 0.3- 0.2- 2000 04 04 704 0.7+ 0.2+ 2000 04 12 608 0.4- 0.7-
 2000 03 10 704 0.1- 0.0 2000 04 04 704 0.8+ 0.1+ 2000 04 12 608 0.9- 1.0-
 2000 03 10 704 0.2- 0.4- 2000 04 05 704 0.8+ 0.7+

2772 P-L = 2000 GA₇₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	264.03130	ω	227.71224	+0.67488732	+0.73660822		
<i>a</i>	0.29030747	Ω	84.78903	-0.66336530	+0.63173519		
<i>e</i>	0.1407336	<i>i</i>	2.53193	-0.32322373	+0.24149323		
<i>P</i>	3.40	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24 675 0.2+ 0.2+ 1997 08 01 566 0.0 0.3- 2000 04 05 704 0.2- 0.3+
 1960 09 26 675 0.1+ 0.1+ 1997 08 01 566 0.1- 0.2+ 2000 04 05 704 0.4- 0.4+
 1960 09 28 675 0.6- 0.2+ 1998 12 17 704 0.4- 0.9+ 2000 04 05 704 0.2- 0.9+
 1960 09 29 675 0.3+ 0.2- 1998 12 17 704 0.1+ 0.7+ 2000 04 07 704 0.2- 0.3+
 1960 10 22 675 1.9- 1.7+ 1998 12 17 704 (0.5+ 2.0-) 2000 04 07 704 0.0 0.2-
 1960 10 25 675 0.3+ 0.0 1998 12 17 704 0.4+ 1.1- 2000 04 07 704 0.8+ 0.2+
 1960 10 26 675 0.6+ 0.6+ 1998 12 17 704 (4.8- 1.8-) 2000 04 07 704 1.3+ 0.1-
 1997 08 01 566 0.2+ 0.2- 2000 04 05 704 0.6- 0.2+ 2000 04 07 704 0.4+ 0.8+

3077 P-L = 2000 DS₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	78.16857	ω	74.07131	+0.46013357	-0.88625636		
<i>a</i>	0.23383098	Ω	348.09947	+0.68356196	+0.39183927		
<i>e</i>	2.6093641	<i>i</i>	14.94117	+0.56658640	+0.24700536		
<i>P</i>	0.0723661	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 25 675 (2.6- 0.3+) 2000 02 03 704 0.3- 0.3+ 2000 03 04 704 0.5+ 0.0
 1960 09 27 675 (4.3+ 0.6+) 2000 02 03 704 0.8- 0.1- 2000 03 04 704 0.5+ 0.0
 1960 09 28 675 0.5+ 0.9+ 2000 02 06 703 0.8- 0.4+ 2000 03 04 704 0.7+ 0.1-
 1960 09 29 675 1.4- 0.2+ 2000 02 06 703 0.5+ 0.6- 2000 03 05 704 0.1- 0.1+
 1998 09 17 699 1.1+ 1.6+ 2000 02 06 703 0.1- 0.4- 2000 03 05 704 0.2+ 0.2-
 1998 09 17 699 1.5- 0.8+ 2000 02 06 703 0.4- 0.1+ 2000 03 05 704 0.2+ 0.2+
 1998 09 17 699 0.0 0.6- 2000 02 28 704 0.4+ 0.1+ 2000 03 05 704 0.1- 0.6+
 1998 10 12 699 0.1+ 0.7- 2000 02 28 704 0.4+ 0.4+ 2000 03 05 704 0.1+ 0.9+
 1998 10 12 699 0.1- 0.2- 2000 02 28 704 0.1+ 0.5+ 2000 03 12 704 0.0 0.0
 1998 10 12 699 0.5+ 1.1- 2000 02 28 704 0.2+ 0.9+ 2000 03 12 704 0.5- 0.7+
 1999 12 15 704 0.2- 0.3- 2000 02 29 704 0.1+ 0.5- 2000 03 12 704 0.1+ 0.9+
 1999 12 15 704 0.1- 0.3- 2000 02 29 704 0.1+ 0.3+ 2000 03 12 704 0.0 0.0
 1999 12 15 704 0.7- 0.4- 2000 02 29 704 0.1+ 0.0 2000 03 12 704 0.2- 0.3+
 1999 12 15 704 0.3- 1.0- 2000 02 29 704 0.2- 0.1+ 2000 04 17 608 0.4+ 0.9-
 2000 02 03 704 0.0 0.0 2000 02 29 704 0.1- 0.2+ 2000 04 17 608 0.0 0.6-
 2000 02 03 704 0.3+ 0.4- 2000 03 04 704 0.1+ 0.5- 2000 04 17 608 0.1- 0.5-
 2000 02 03 704 0.3- 0.0 2000 03 04 704 0.4+ 0.0

4124 P-L = 2000 FQ₁

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	139.88297	ω	203.22873	+0.78217744	-0.62161703		
<i>a</i>	0.21117438	Ω	195.43354	+0.59368598	+0.76419271		
<i>e</i>	2.7928133	<i>i</i>	9.14968	+0.18903812	+0.17205162		
<i>P</i>	0.1602610	<i>H</i>	14.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.7+	0.9+	2000 03 25	691	0.4-	0.1+	2000 04 05	704	0.6+	0.6-
1960 09 25	675	0.2+	0.9+	2000 03 25	691	0.5-	0.0	2000 04 05	704	0.2+	0.1+
1960 09 26	675	0.3-	0.6+	2000 03 27	691	1.0-	0.2+	2000 04 05	704	0.3+	0.1-
1960 09 28	675	0.4-	0.3-	2000 03 27	691	0.9-	0.3+	2000 04 05	704	0.4+	0.8-
1960 10 17	675	0.3+	0.2+	2000 03 27	691	1.4-	0.1+	2000 04 06	699	0.2+	0.8+
1960 10 22	675	0.8-	0.5-	2000 04 02	699	0.6-	0.6+	2000 04 06	704	0.3+	0.5+
1960 10 25	675	0.1+	0.7+	2000 04 02	699	0.2+	0.0	2000 04 06	699	0.1-	0.2+
1960 10 26	675	0.2-	0.8-	2000 04 02	699	0.5+	0.4+	2000 04 06	704	0.7+	0.1-
1998 12 22	704	0.3-	1.6+	2000 04 02	699	0.1-	1.1+	2000 04 06	704	0.5+	0.2+
1998 12 22	704	0.3+	1.6-	2000 04 03	699	0.4+	0.2-	2000 04 06	699	0.1-	0.3+
1998 12 22	704	0.4+	0.4+	2000 04 03	699	0.3+	0.3-	2000 04 06	704	0.3+	0.0
1998 12 22	704	0.4-	0.1-	2000 04 03	699	0.8+	0.9-	2000 04 06	699	0.2-	0.9+
2000 03 10	704	0.1+	0.9-	2000 04 03	699	0.7+	0.3+	2000 04 06	704	0.4+	0.4-
2000 03 10	704	0.2+	0.0	2000 04 05	691	0.4-	0.3+	2000 04 11	691	0.4-	0.1-
2000 03 10	704	0.2-	0.4-	2000 04 05	691	0.3-	0.4+	2000 04 11	691	0.1-	0.0
2000 03 10	704	0.0	0.5+	2000 04 05	691	0.4-	0.3+	2000 04 11	691	0.3+	0.8-
2000 03 25	691	0.5-	0.0	2000 04 05	704	0.6+	0.2+				

4169 P-L

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	71.29772	(2000.0)	P	Q	
<i>n</i>	0.22690429	ω	71.38993	+0.69945188	+0.71065228
<i>a</i>	2.6622014	Ω	243.23831	-0.68352979	+0.63423865
<i>e</i>	0.1168746	<i>i</i>	4.86765	-0.20869615	+0.30449085
<i>P</i>	4.34	<i>H</i>	14.1	<i>G</i>	0.15

Residuals in seconds of arc

1960 09 24	675	0.6+	1.1-	1999 09 08	699	0.2-	0.1+	1999 10 07	704	0.2+	0.2+
1960 09 25	675	1.6+	0.7-	1999 09 08	704	0.1+	0.1+	1999 10 07	704	0.2+	0.6+
1960 09 26	675	0.3-	0.7-	1999 09 08	699	0.0	0.2+	1999 10 07	704	0.1-	0.1+
1960 09 28	675	0.6+	1.2-	1999 09 08	704	0.3+	0.7-	1999 10 07	704	0.0	1.0+
1960 10 22	675	0.1-	0.2+	1999 09 08	704	0.0	0.4-	1999 10 07	704	0.0	1.0+
1960 10 24	675	0.4-	0.7-	1999 09 08	704	0.1+	0.1+	1999 10 09	704	0.5+	0.2+
1960 10 26	675	0.2+	2.0-	1999 09 08	699	0.5-	0.4-	1999 10 09	704	0.3+	0.5+
1998 04 21	704	0.3-	0.6-	1999 09 08	704	0.4+	0.3-	1999 10 09	704	0.4+	0.4+
1998 04 21	704	0.5-	1.2-	1999 10 02	699	0.2-	0.0	1999 10 09	704	0.3+	0.0
1998 04 21	704	0.6+	1.2+	1999 10 02	699	0.7-	0.2+	1999 10 09	704	0.1+	0.5+
1998 04 21	704	0.5+	0.2-	1999 10 02	699	0.2-	0.7-	1999 10 15	699	0.1-	1.5+
1998 04 21	704	1.0+	1.6+	1999 10 04	704	0.3+	0.2-	1999 10 15	699	0.8-	0.9+
1998 05 22	704	1.3+	0.2-	1999 10 04	704	0.1-	0.1+	1999 10 15	699	1.3-	1.1+
1998 05 22	704	0.4-	1.5-	1999 10 04	704	0.8-	0.2+	1999 12 07	704	0.1-	0.9+
1998 05 22	704	0.8-	0.2+	1999 10 04	704	0.0	0.0	1999 12 07	704	0.4-	1.0-
1998 05 22	704	1.5-	0.5+	1999 10 04	704	0.7-	0.0	1999 12 07	704	0.6+	0.1+

4188 P-L = 1996 EG₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

		Williams			
<i>M</i>	251.63638	(2000.0)	P	Q	
<i>n</i>	0.23812156	ω	289.92173	+0.22367905	+0.97429146
<i>a</i>	2.5779247	Ω	352.84112	-0.79389449	+0.16611104
<i>e</i>	0.1814553	<i>i</i>	12.46764	-0.56541952	+0.15219486
<i>P</i>	4.14	<i>H</i>	16.1	<i>G</i>	0.15

Residuals in seconds of arc

1960 09 24	675	1.0+	0.2-	1960 09 28	675	0.1-	0.3+	1996 03 18	691	0.0	0.6-
1960 09 25	675	0.6-	0.7+	1960 09 28	675	0.2-	0.5+	1996 03 18	691	0.0	0.1-
1960 09 25	675	0.7+	2.1-	1996 03 11	691	0.1-	0.2+	1996 03 18	691	0.3+	0.3-
1960 09 26	675	0.5+	0.2-	1996 03 11	691	0.1-	0.2+				
1960 09 26	675	1.3-	0.8+	1996 03 11	691	0.2-	0.3+				

4261 P-L = 2000 DW₇₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	100.70494				
<i>n</i>	0.21063580	ω	218.69826	+0.44005773	-0.89750044
<i>a</i>	2.7975719	Ω	205.23362	+0.83987447	+0.42280810
<i>e</i>	0.0534226	<i>i</i>	3.90328	+0.31774213	+0.12540444
<i>P</i>	4.68	<i>H</i>	14.3	<i>G</i>	0.15

Residuals in seconds of arc

1960 09 24	675	0.1+	0.1-	2000 02 29	704	0.3-	0.8-	2000 03 11	704	0.0	0.3+
1960 09 25	675	0.7-	0.1+	2000 03 03	704	0.8+	0.4-	2000 03 11	704	0.3+	0.9+
1960 09 26	675	0.2+	0.1-	2000 03 03	704	0.2-	0.1-	2000 04 05	704	0.4-	0.2-
1960 09 28	675	0.3+	0.3+	2000 03 03	704	0.3+	0.6+	2000 04 05	704	0.3-	0.4+
2000 02 29	704	0.4+	0.6-	2000 03 11	704	0.3+	0.1+	2000 04 05	704	0.5-	0.4-
2000 02 29	704	0.1+	0.2+	2000 03 11	704	0.1-	0.3-	2000 04 05	704	0.5-	0.6+
2000 02 29	704	0.1+	0.5-	2000 03 11	704	0.0	0.2+				

4281 P-L = 2000 DP₇₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	54.40958				
<i>n</i>	0.18197717	ω	84.02881	+0.03363233	-0.99941870
<i>a</i>	3.0840739	Ω	4.05641	+0.88292639	+0.02709512
<i>e</i>	0.1955087	<i>i</i>	4.52429	+0.46830531	+0.02069116
<i>P</i>	5.42	<i>H</i>	14.2	<i>G</i>	0.15

Residuals in seconds of arc

1960 09 24	675	1.2-	0.5+	1960 09 28	675	0.0	0.6+	2000 03 03	704	0.3+	0.0
1960 09 25	675	1.0-	0.5+	1960 09 28	675	1.0+	0.8+	2000 03 11	704	0.5+	0.1-
1960 09 25	675	0.3-	0.1-	1960 09 28	675	1.4+	0.6-	2000 03 11	704	0.3-	0.5+
1960 09 26	675	0.1+	0.1+	2000 02 29	704	0.1-	0.5-	2000 03 11	704	0.3+	0.5+
1960 09 26	675	0.1+	1.6-	2000 02 29	704	0.5-	0.8-	2000 03 11	704	0.6+	0.6+
1960 09 26	675	0.1+	0.6+	2000 02 29	704	0.0	0.5-	2000 03 11	704	0.4-	0.3+
1960 09 26	675	0.1+	0.2-	2000 03 03	704	0.5+	0.6-	2000 03 11	699	0.4-	0.4-
1960 09 27	675	2.5-	1.0-	2000 03 03	704	0.6+	1.3+	2000 03 11	699	0.3-	0.6-
1960 09 27	675	0.6+	0.5+	2000 03 03	704	0.1-	0.1+	2000 03 11	699	1.2-	0.2-
1960 09 28	675	1.6+	0.1-	2000 03 03	704	0.8+	0.1+	2000 03 11	699	0.3-	0.3+

4291 P-L

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	224.34255				
<i>n</i>	0.23849469	ω	128.01154	+0.85656478	+0.51299475
<i>a</i>	2.5752352	Ω	201.30309	-0.50845767	+0.82047465
<i>e</i>	0.1238607	<i>i</i>	8.86300	-0.08813386	+0.25230485
<i>P</i>	4.13	<i>H</i>	15.0	<i>G</i>	0.15

Residuals in seconds of arc

1960 09 24	675	0.4+	0.5+	1992 05 04	691	0.2+	0.8-	2000 04 05	704	0.5+	0.4+
1960 09 25	675	0.3-	0.7+	1992 05 04	691	0.0	0.3-	2000 04 05	704	0.2+	0.3+
1960 09 26	675	0.1-	0.0	1996 04 13	691	0.1-	0.4+	2000 04 06	699	0.4-	0.7+
1960 09 28	675	0.5-	0.9+	1996 04 13	691	0.6-	0.5+	2000 04 06	699	0.5+	0.4+
1960 10 22	675	0.1-	0.1-	2000 04 05	704	0.1+	0.1+	2000 04 06	699	0.4-	0.7-
1960 10 26	675	0.0	0.1-	2000 04 05	704	0.4+	0.1+	2000 04 06	699	0.6-	0.4+
1992 05 04	691	0.2+	0.1+	2000 04 05	704	0.7+	0.5+				

4541 P-L = 1999 CO₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

		(2000.0)		P	Q
<i>M</i>	120.00728				
<i>n</i>	0.21134979	ω	66.51285	+0.23934082	-0.97062619
<i>a</i>	2.7912678	Ω	9.73614	+0.82955089	+0.19130541
<i>e</i>	0.2240533	<i>i</i>	8.33374	+0.50454068	+0.14590080
<i>P</i>	4.66	<i>H</i>	15.1	<i>G</i>	0.15

2000 APR. 18

M.P.C. 40275

Residuals in seconds of arc

1960 09 24	675	0.9−	0.4−	1999 01 19	704	0.3−	0.8−	1999 02 10	704	0.8−	0.7−
1960 09 26	675	0.3−	0.2+	1999 01 19	704	(1.6+	3.1−)	1999 02 10	704	0.5−	0.3+
1960 09 27	675	0.6+	0.7+	1999 01 19	704	0.4−	0.8−	1999 02 10	704	1.4−	0.5+
1960 09 28	675	0.5−	0.3−	1999 01 19	704	1.6+	1.1+	1999 02 13	704	1.3−	0.0
1960 10 17	675	0.4+	1.3−	1999 01 19	704	0.3−	1.5+	1999 02 13	704	1.3+	0.1+
1960 10 22	675	0.5+	0.5+	1999 02 10	704	0.4+	0.9−	1999 02 13	704	0.6−	0.1+
1960 10 26	675	0.3+	0.5+	1999 02 10	704	0.6+	0.6−	1999 02 13	704	1.8+	0.2+

4628 P-L = 1983 VU₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	339.27381		(2000.0)	P	Q
<i>n</i>	0.17596725	ω	22.44014	+0.75243206	−0.65776895
<i>a</i>	3.1539017	Ω	18.81954	+0.58695041	+0.64586058
<i>e</i>	0.1493970	<i>i</i>	6.12835	+0.29888996	+0.38756175
<i>P</i>	5.60	<i>H</i>	14.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1960 09 24	675	0.1−	0.2+	1960 10 22	675	0.6+	0.9−	1999 09 08	703	0.9−	0.5−
1960 09 26	675	1.0−	0.2−	1960 10 25	675	0.2−	0.2−	1999 09 08	703	0.0	0.2−
1960 09 27	675	0.9+	0.1+	1960 10 26	675	1.3+	0.6+	1999 09 08	703	1.1−	0.3−
1960 09 28	675	0.6−	0.8−	1983 11 08	381	0.1−	0.4+				
1960 10 17	675	0.4−	0.5+	1999 09 08	703	1.7+	1.6+				

4629 P-L = 1999 JD₁₀₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	311.99052		(2000.0)	P	Q
<i>n</i>	0.29639331	ω	187.02046	+0.99977987	+0.01554270
<i>a</i>	2.2278731	Ω	172.04803	−0.01054036	+0.95288951
<i>e</i>	0.0562022	<i>i</i>	5.84736	−0.01814173	+0.30291913
<i>P</i>	3.33	<i>H</i>	15.4	<i>G</i> 0.15	<i>U</i> 4

Residuals in seconds of arc

1960 09 24	675	0.2−	0.3+	1999 04 11	699	1.2+	0.3+	1999 05 18	704	0.0	0.4+
1960 09 26	675	0.4−	0.2+	1999 04 11	699	0.2+	0.8+	1999 05 18	704	0.8+	0.4+
1960 09 27	675	0.0	0.4−	1999 05 13	704	1.4−	0.0	1999 05 18	704	1.3+	1.2+
1960 09 28	675	0.7−	1.0−	1999 05 13	704	(2.8−	0.1−)	1999 05 19	704	0.4+	0.4−
1960 10 22	675	0.9+	0.8+	1999 05 13	704	0.2+	0.1−	1999 05 19	704	0.3+	0.5+
1960 10 25	675	0.1−	0.0	1999 05 13	704	1.2−	0.4−	1999 05 19	704	1.2−	0.2−
1960 10 26	675	0.3+	1.2+	1999 05 13	704	(2.8−	0.8+)	1999 05 19	704	0.4+	1.0−
1999 04 11	699	0.1−	1.4+	1999 05 18	704	0.7−	1.6−	1999 05 19	704	(2.9−	0.1+)

4733 P-L = 2000 DV₁₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	237.15013		(2000.0)	P	Q
<i>n</i>	0.26369522	ω	142.74069	+0.67638840	+0.73629859
<i>a</i>	2.4084328	Ω	169.77308	−0.69897912	+0.64983268
<i>e</i>	0.1297651	<i>i</i>	6.16129	−0.23222171	+0.18863159
<i>P</i>	3.74	<i>H</i>	15.7	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1960 09 24	675	0.2−	0.0	2000 02 27	691	0.1−	0.9−	2000 03 10	704	0.2+	1.0+
1960 09 24	675	0.4+	0.8+	2000 03 02	691	0.4−	0.0	2000 04 05	704	0.5−	0.1−
1960 09 26	675	1.0+	0.2−	2000 03 02	691	0.0	0.1−	2000 04 05	704	0.0	0.4−
1960 09 27	675	0.9+	1.7+	2000 03 02	691	0.2−	0.2−	2000 04 05	704	0.2−	0.6−
1960 09 27	675	0.6+	1.2−	2000 03 03	691	0.2−	0.4−	2000 04 05	704	0.1+	0.1+
1960 09 28	675	0.5−	0.4+	2000 03 03	691	0.2−	0.5−	2000 04 05	704	0.1+	0.3−
1960 09 28	675	1.7+	0.1+	2000 03 03	691	0.1+	0.5−	2000 04 06	704	0.3+	0.9+
2000 02 27	691	0.3+	0.0	2000 03 10	704	0.5+	1.1+	2000 04 06	704	0.4−	0.5−
2000 02 27	691	0.0	0.1+	2000 03 10	704	0.6+	1.0+	2000 04 06	704	0.0	0.4+

4808 P-L = 2000 CX₉₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	149.77394		(2000.0)	P	Q
<i>n</i>	0.28474800	ω	202.31563	+0.98549201	+0.16772481
<i>a</i>	2.2882085	Ω	147.99460	−0.14738107	+0.92155300
<i>e</i>	0.1139123	<i>i</i>	2.80748	−0.08416843	+0.35015491
<i>P</i>	3.46	<i>H</i>	16.4	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1960 09 24	675	0.8−	1.0−	2000 02 08	691	0.1+	0.2−	2000 03 03	691	0.5+	0.2+
1960 09 24	675	0.2−	0.2−	2000 02 08	691	0.1+	0.3−	2000 03 03	691	0.1+	0.4+
1960 09 26	675	1.5−	1.1−	2000 02 08	691	0.2+	0.0	2000 03 09	691	0.2+	0.2−
1960 09 27	675	0.9+	1.0+	2000 02 14	691	0.2+	0.2+	2000 03 09	691	0.1+	0.2−
1960 09 27	675	1.9+	1.0+	2000 02 14	691	0.3+	0.0	2000 03 09	691	0.3+	0.2−
1960 09 28	675	0.4−	0.4+	2000 02 14	691	0.4+	0.1−	2000 03 11	691	0.4−	0.3+
1960 09 28	675	0.1+	0.1+	2000 02 27	691	0.3−	0.4+	2000 03 11	691	0.4−	0.3−
2000 02 04	691	0.0	0.3−	2000 02 27	691	1.0−	0.5+	2000 03 11	691	0.5−	0.3−
2000 02 04	691	0.1+	0.3−	2000 02 27	691	0.4−	0.6+				
2000 02 04	691	0.0	0.4−	2000 03 03	691	0.3+	0.2+				

6033 P-L = 1993 FH₄₄ = 2000 GW₃₇

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	175.34295		(2000.0)	P	Q
<i>n</i>	0.28778621	ω	24.86592	+0.96058286	−0.27795740
<i>a</i>	2.2720754	Ω	351.26881	+0.24983935	+0.87028296
<i>e</i>	0.2411548	<i>i</i>	1.69875	+0.12190514	+0.40662914
<i>P</i>	3.42	<i>H</i>	15.1	<i>G</i> 0.15	<i>U</i> 2

Residuals in seconds of arc

1960 09 24	675	0.4−	0.5+	1996 02 15	691	(5.1+	0.7−)	2000 04 05	704	0.4+	1.4−
1960 09 25	675	0.2−	0.8+	1998 12 14	704	0.2+	1.0−	2000 04 05	704	0.1−	0.1+
1960 09 26	675	0.1+	0.3−	1998 12 14	704	0.7−	0.2−	2000 04 06	704	0.2−	0.2+
1960 09 28	675	0.2+	0.1+	1998 12 14	704	0.0	0.6−	2000 04 06	704	0.2−	0.0
1960 10 17	675	0.0	0.9+	1998 12 14	704	1.8−	0.6−	2000 04 06	704	0.5+	0.1+
1960 10 22	675	0.9−	0.5+	1998 12 17	704	0.7+	0.3−	2000 04 06	704	0.1−	0.5−
1960 10 24	675	0.1+	0.0	1998 12 17	704	0.8+	0.4−	2000 04 06	704	0.7+	0.3+
1960 10 26	675	0.2−	0.3+	1998 12 17	704	0.3−	1.3+	2000 04 07	704	0.6−	0.3+
1993 03 19	809	0.0	0.9+	1998 12 17	704	1.3+	0.2+	2000 04 07	704	0.0	0.4+
1993 03 20	809	0.3+	1.3+	1998 12 17	704	(4.4−	3.3−)	2000 04 07	704	0.1+	0.8−
1993 03 24	809	(2.6+	1.3+)	1999 01 16	704	0.1−	1.7+	2000 04 07	704	1.2−	1.0−
1993 04 15	691	0.5−	0.1+	1999 01 16	704	(2.2+	0.7−)	2000 04 07	704	0.0	0.1−
1993 04 15	691	0.3−	0.3+	1999 01 16	704	0.0	0.2−	2000 04 07	704	0.3−	0.1+
1993 04 15	691	0.4−	0.6+	1999 01 16	704	0.6−	0.7−	2000 04 07	704	0.5+	0.2+
1996 02 15	691	0.8+	0.3+	2000 04 05	704	1.5+	0.8+	2000 04 07	704	0.4+	0.1+
1996 02 15	691	0.8+	0.6+	2000 04 05	704	0.5−	0.0	2000 04 07	704	0.3+	1.0+

6190 P-L = 2000 GO₈₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	273.77160		(2000.0)	P	Q
<i>n</i>	0.28911191	ω	43.93899	+0.07963125	+0.99530814
<i>a</i>	2.2651244	Ω	230.70632	−0.93305166	+0.05501948
<i>e</i>	0.1336694	<i>i</i>	4.07232	−0.35081827	+0.07958996
<i>P</i>	3.41	<i>H</i>	14.8	<i>G</i> 0.15	<i>U</i> 5

Residuals in seconds of arc

1960 09 24	675	0.3+	1.3−	2000 03 13	704	0.5+	0.1−	2000 04 04	704	1.0+	0.5+
1960 09 25	675	0.3−	1.6−	2000 03 13	704	0.7−	0.1+	2000 04 04	704	0.7+	0.7+
1960 09 26	675	0.2+	0.1−	2000 03 13	704	0.5−	0.8−	2000 04 08	704	0.1−	0.6+
1960 09 28	675	1.1−	0.8+	2000 03 13	704	0.4−	1.1−	2000 04 08	704	0.3−	0.1+
1960 10 17	675	0.1−	0.8+	2000 04 04	704	0.4+	0.1+	2000 04 08	704	1.6−	0.4+
1960 10 22	675	0.6+	1.1+	2000 04 04	704	0.0	0.0	2000 04 08	704	0.8+	0.3−
1960 10 26	675	0.5+	0.6+	2000 04 04	704	0.2+	0.2−				

6346 P-L = 2000 EK₄₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.21192776	ω	168.57278	-0.96002448	-0.27923549		
<i>a</i>	2.7861906	Ω	355.08109	+0.23553715	-0.76819898		
<i>e</i>	0.0783346	<i>i</i>	13.15020	+0.15124567	-0.57610578		
<i>P</i>	4.65	<i>H</i>	13.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.5-	0.4-	2000 03 09	704	0.2-	0.1-	2000 04 07	699	0.5-	0.5+
1960 09 25	675	0.1-	0.2+	2000 03 10	704	1.0-	0.6+	2000 04 07	704	0.1-	0.4+
1960 09 26	675	0.5-	0.2+	2000 03 10	704	0.1-	0.3+	2000 04 07	704	0.1-	0.3+
1960 10 22	675	0.6+	0.5+	2000 03 10	704	0.1+	0.2+	2000 04 07	704	0.1+	0.1+
1960 10 26	675	0.5+	0.2-	2000 03 10	704	0.2-	0.2-	2000 04 07	704	0.1-	0.1+
2000 02 08	704	0.0	0.1-	2000 03 11	704	0.1-	0.4+	2000 04 08	704	0.4+	0.0
2000 02 08	704	0.3-	0.1-	2000 03 11	704	0.2-	0.5+	2000 04 08	704	0.2+	0.4-
2000 02 08	704	0.1+	0.5-	2000 03 11	704	0.2+	0.2+	2000 04 08	704	0.1+	0.6-
2000 02 08	704	0.4+	0.4+	2000 03 11	704	0.4+	0.5+	2000 04 08	704	0.3+	0.0
2000 02 08	704	0.5+	0.1-	2000 03 11	704	0.3+	0.6+	2000 04 08	704	0.7+	0.1-
2000 03 09	704	0.1+	0.1+	2000 04 07	699	0.3-	0.3+	2000 04 11	608	0.1+	0.4-
2000 03 09	704	0.7+	1.6-	2000 04 07	699	0.6-	0.2-	2000 04 11	608	0.2+	0.4-
2000 03 09	704	1.0-	0.4-	2000 04 07	699	0.3-	0.1-	2000 04 11	608	0.3+	0.7-
2000 03 09	704	0.2-	0.5+	2000 04 07	704	0.6+	0.1+				

6372 P-L = 1999 VA₆₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22912621	ω	85.34911	+0.63614154	+0.77090832		
<i>a</i>	2.6449626	Ω	224.21000	-0.72485582	+0.58289627		
<i>e</i>	0.1425112	<i>i</i>	2.63074	-0.26440118	+0.25677286		
<i>P</i>	4.30	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1960 09 24	675	0.0	0.7+	1999 10 10	691	0.4+	0.2-	1999 11 05	704	0.7+	0.5+
1960 09 25	675	0.5+	0.2+	1999 10 15	704	0.2+	0.6+	1999 11 05	704	0.2+	0.1+
1960 09 26	675	0.2-	0.5-	1999 10 15	704	0.4+	1.9+	1999 11 05	704	0.1+	0.3+
1960 09 28	675	0.2-	0.5-	1999 10 15	704	0.4-	0.8+	1999 11 05	704	1.0-	0.7+
1999 10 06	704	0.7+	0.7-	1999 10 15	704	0.1+	1.2-	1999 11 05	704	0.8+	0.0
1999 10 06	704	0.6-	0.4+	1999 10 15	704	0.6-	0.2-	1999 11 09	704	0.7+	0.2-
1999 10 06	704	0.0	0.5+	1999 10 29	703	(2.7-	1.2+)	1999 11 09	704	0.3+	0.5-
1999 10 06	704	0.1-	0.2-	1999 10 29	703	0.8-	0.4+	1999 11 09	704	0.2+	0.2-
1999 10 06	704	0.1+	0.5+	1999 10 29	703	0.6-	1.3+	1999 11 09	704	0.0	1.1-
1999 10 10	704	0.7-	0.9-	1999 10 29	703	1.0-	0.7-	1999 11 09	704	0.6-	1.1-
1999 10 10	704	0.0	0.5-	1999 11 04	704	1.6+	0.6+	1999 11 12	704	0.0	0.3+
1999 10 10	704	0.5+	0.2-	1999 11 04	704	0.1+	0.0	1999 11 12	704	0.6-	0.0
1999 10 10	704	0.6-	0.3+	1999 11 04	704	0.0	0.2-	1999 11 12	704	0.1-	0.4-
1999 10 10	691	0.3+	1.0-	1999 11 04	704	0.1+	1.0+	1999 11 12	704	0.6-	0.4-
1999 10 10	691	0.4+	0.3-	1999 11 04	704	0.1+	0.3-				

6601 P-L = 2000 GC₈₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29011785	ω	146.36301	+0.64751880	+0.76130819		
<i>a</i>	2.2598854	Ω	163.90669	-0.72315799	+0.62778218		
<i>e</i>	0.1400262	<i>i</i>	6.96288	-0.24033711	+0.16217083		
<i>P</i>	3.40	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 24	675	0.1+	0.1-	1994 09 05	691	0.2+	0.1+	2000 04 07	699	0.2+	0.3-
1960 09 26	675	0.1+	0.0	2000 04 04	699	0.1+	0.2-	2000 04 07	699	0.4-	0.6-
1960 09 27	675	0.6+	0.2+	2000 04 04	704	0.5+	0.3-	2000 04 07	699	0.6-	0.1-
1960 09 28	675	0.0	0.0	2000 04 04	699	0.5+	0.2+	2000 04 07	699	0.3-	0.6+
1960 10 17	675	0.1+	0.2+	2000 04 04	704	0.3-	0.3+	2000 04 08	704	0.8+	0.9+

1960 10 22	675	0.9-	1.0-	2000 04 04	699	0.6+	0.7-	2000 04 08	704	0.1+	0.3+
1960 10 24	675	0.4+	1.0-	2000 04 04	704	0.1+	0.1-	2000 04 08	704	0.3+	0.4+
1960 10 26	675	0.4-	0.9+	2000 04 04	704	0.3-	0.5+	2000 04 08	704	0.4-	0.2-
1994 09 05	691	0.4-	0.1+	2000 04 04	699	0.7-	0.0	2000 04 08	704	0.0	0.8-
1994 09 05	691	0.1+	0.2+	2000 04 04	704	0.3-	0.6-				

7587 P-L = 2000 GD₇₉

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.23747000	ω	13.06422	+0.44380495	-0.89475512		
<i>a</i>	2.5826380	Ω	50.61181	+0.81631080	+0.38087125		
<i>e</i>	0.1191945	<i>i</i>	3.67231	+0.36969426	+0.23313167		
<i>P</i>	4.15	<i>H</i>	14.7	<i>G</i>	0.15	<i>U</i>	7

Residuals in seconds of arc

1960 10 17	675	0.1-	0.5-	2000 04 05	704	1.1+	0.6-	2000 04 06	704	0.5-	0.2+
1960 10 22	675	0.5+	0.4+	2000 04 05	704	0.5-	0.1+	2000 04 06	704	0.0	0.2-
1960 10 25	675	0.4-	0.1-	2000 04 06	704	0.3+	0.9+	2000 04 07	704	0.5-	1.6-
1960 10 26	675	0.1-	0.3+	2000 04 06	704	0.1+	0.5+	2000 04 07	704	0.4-	0.2+
2000 04 05	704	1.3+	1.7+	2000 04 06	704	0.4-	0.8-	2000 04 07	704	0.5-	0.3-

7605 P-L = 1993 QL₁₀ = 2000 AP₁₈₅

Id. A. Doppler, G. V. Williams

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17855995	ω	211.29356	+0.92237451	-0.38501433		
<i>a</i>	3.1232974	Ω	171.17825	+0.38305164	+0.90105778		
<i>e</i>	0.1721683	<i>i</i>	11.83442	+0.04996697	+0.19964677		
<i>P</i>	5.52	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 09 24	675	0.2+	0.8+	1999 10 04	703	0.5-	0.0	1999 11 02	703	0.5+	0.8-
1960 10 17	675	0.6-	0.0	1999 10 04	703	0.1-	0.1+	1999 11 06	704	0.5+	0.1-
1960 10 22	675	0.2-	1.4-	1999 10 09	704	0.7+	0.6-	1999 11 06	704	0.1+	0.1-
1960 10 25	675	0.1+	0.1-	1999 10 09	704	0.7+	0.3-	1999 11 06	704	0.2-	0.2+
1960 10 26	675	0.8+	0.8-	1999 10 09	704	0.4+	0.4-	1999 11 06	704	0.1+	0.1-
1993 08 16	010	0.1-	0.4-	1999 10 09	704	0.7+	0.7-	1999 11 06	704	0.4+	0.1+
1993 08 16	010	0.1+	0.4-	1999 10 09	704	0.4+	0.8-	2000 01 08	704	0.3+	0.1-
1993 08 16	010	0.0	0.2+	1999 10 13	699	0.2+	0.7+	2000 01 08	704	0.2-	0.5-
1993 08 19	010	(2.4+	2.8+)	1999 10 13	699	0.5+	0.2+	2000 01 08	704	0.8-	0.2-
1993 08 19	010	(3.5+	3.0+)	1999 10 13	699	0.4+	0.5+	2000 01 08	704	0.5-	0.1-
1993 08 20	010	(1.6+	2.5+)	1999 10 18	699	0.2-	0.9+	2000 01 08	704	0.3-	0.7-
1999 10 02	699	0.7-	0.0	1999 10 18	699	0.3+	0.5+	2000 01 11	704	0.0	0.8-
1999 10 02	699	0.5+	1.2+	1999 10 18	699	1.0+	1.3+	2000 01 11	704	0.5+	0.0
1999 10 02	699	1.9-	0.4+	1999 11 02	703	0.6-	0.2+	2000 01 11	704	0.4+	0.3-
1999 10 04	703	0.2-	0.6+	1999 11 02	703	0.9-	0.4-	2000 01 11	704	0.1+	0.2-
1999 10 04	703	0.1-	0.3+	1999 11 02	703	1.8-	0.7+	2000 01 11	704	0.3-	0.2-

7627 P-L = 1999 XC₁₀₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.22894085	ω	266.84573	+0.99507557	+0.07463737		
<i>a</i>	2.6463900	Ω	88.86715	-0.04263789	+0.91634486		
<i>e</i>	0.1706500	<i>i</i>	3.74032	-0.08947974	+0.39337178		
<i>P</i>	4.31	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	2

Residuals in seconds of arc

1960 10 22	675	0.6-	0.3+	1999 10 20	704	0.1-	0.2+	1999 11 16	704	0.0	0.1-
1960 10 25	675	0.1+	1.1+	1999 10 20	704	0.0	0.1-	1999 11 16	704	0.3-	0.4+
1960 10 26	675	0.7-	1.3+	1999 10 20	704	0.1-	0.1-	1999 11 16	704	0.7-	0.0
1994 07 11	809	(3.9+	1.7+)	1999 10 20	704	1.3-	0.2-	1999 11 17	704	0.5+	0.1+
1994 07 11	809	1.4+	0.0	1999 11 01	703	0.6-	0.3+	1999 11 17	704	0.1+	0.3-
1994 07 11	809	0.1-	0.7-	1999 11 01	703	1.2-	0.1+	1999 11 17	704	0.7-	0.5

2000 APR. 18

M.P.C. 40277

1994 07 12	809	0.1+	1.4-	1999 11 01	703	0.5-	0.1+	1999 12 04	703	0.8-	0.5-
1994 07 12	809	1.3-	0.1+	1999 11 04	704	0.2+	0.1-	1999 12 04	703	0.3-	0.1+
1999 10 10	704	0.4+	0.1-	1999 11 04	704	0.4+	0.2-	1999 12 04	703	0.8-	0.6+
1999 10 10	704	0.3+	0.1+	1999 11 04	704	0.2-	0.1+	1999 12 07	704	0.1+	0.5-
1999 10 10	704	0.0	0.4+	1999 11 04	704	0.5+	0.3+	1999 12 07	704	0.5+	0.0
1999 10 10	704	0.2-	0.3-	1999 11 15	704	0.6+	0.9-	1999 12 07	704	0.2+	0.1-
1999 10 10	704	0.2+	0.3+	1999 11 15	704	0.1+	0.5-	1999 12 07	704	1.1+	0.4+
1999 10 15	704	0.7+	0.5+	1999 11 15	704	0.6+	0.6-	1999 12 07	704	0.2+	0.6-
1999 10 15	704	0.7+	0.4-	1999 11 15	704	0.2+	0.9-	1999 12 12	703	0.7+	0.7-
1999 10 15	704	0.1+	1.2-	1999 11 15	704	0.3+	0.4-	1999 12 12	703	0.3+	1.2-
1999 10 15	704	(2.1-	0.8+)	1999 11 16	704	0.1+	0.8-	1999 12 12	703	0.0	0.7+
1999 10 20	704	0.3-	0.2+	1999 11 16	704	0.7+	0.1-	1999 12 12	703	0.0	1.1+

9555 P-L = 1999 TR₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	12.32342		(2000.0)	P	Q		
<i>n</i>	0.17873456	ω	24.71024	+0.54439018	-0.83678560		
<i>a</i>	3.1212630	Ω	32.39836	+0.75029758	+0.45452819		
<i>e</i>	0.1998478	<i>i</i>	6.27454	+0.37509048	+0.30527689		
<i>P</i>	5.51	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 10 17	675	0.1-	0.1+	1999 10 21	704	1.0-	1.8-	1999 11 16	704	0.2-	0.4+
1960 10 22	675	1.5-	0.2+	1999 10 29	703	0.4-	0.3+	1999 11 16	704	0.0	0.4-
1960 10 26	675	1.1+	0.8+	1999 10 29	703	0.4+	0.7-	1999 12 04	703	0.6-	0.9+
1999 10 03	704	0.6+	0.3+	1999 10 29	703	1.2+	0.7+	1999 12 04	703	0.1+	0.4+
1999 10 03	704	0.3+	0.3+	1999 10 29	703	0.2+	0.2+	1999 12 04	703	0.6-	0.4+
1999 10 03	704	1.3-	0.2+	1999 11 04	704	0.2-	0.3+	1999 12 04	703	0.5+	0.2-
1999 10 06	704	1.4+	0.5-	1999 11 04	704	0.2-	0.5+	1999 12 08	704	0.5-	0.4-
1999 10 06	704	0.6+	0.2+	1999 11 04	704	0.7-	0.4+	1999 12 08	704	0.7-	0.4-
1999 10 06	704	0.7+	0.5-	1999 11 04	704	0.1+	0.7+	1999 12 08	704	0.3-	0.4+
1999 10 06	704	0.7+	0.1-	1999 11 04	704	0.1+	1.0+	1999 12 08	704	0.1+	0.2-
1999 10 06	704	0.2-	0.6-	1999 11 14	704	0.1+	0.2+	1999 12 12	703	(0.4-	2.4+)
1999 10 10	699	0.7+	1.0-	1999 11 14	704	0.3-	0.2+	1999 12 12	703	0.1+	0.1-
1999 10 10	699	1.0+	1.0-	1999 11 14	704	0.2+	0.4-	1999 12 12	703	0.3+	0.7-
1999 10 10	699	(1.5-	2.5-)	1999 11 14	704	0.2+	0.5-	1999 12 12	703	0.3-	0.4+
1999 10 21	704	0.1+	0.4+	1999 11 14	704	0.0	0.1-	2000 01 06	704	0.6-	0.1+
1999 10 21	704	0.7-	0.2+	1999 11 16	704	0.3+	0.3-	2000 01 06	704	0.2-	0.7+
1999 10 21	704	1.1-	0.1-	1999 11 16	704	0.3+	0.5+	2000 01 06	704	0.3+	0.5-
1999 10 21	704	0.5-	0.5-	1999 11 16	704	0.2+	0.2+	2000 01 06	704	0.1+	0.5-

9607 P-L = 1999 XY₁₆₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	339.53735		(2000.0)	P	Q		
<i>n</i>	0.18552809	ω	169.23233	-0.99313881	-0.11631692		
<i>a</i>	3.0445955	Ω	4.14558	+0.09099723	-0.83350165		
<i>e</i>	0.0727511	<i>i</i>	9.61085	+0.07344930	-0.54013458		
<i>P</i>	5.31	<i>H</i>	13.1	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1960 09 28	675	1.7+	0.2+	2000 02 03	704	0.2-	0.5+	2000 03 08	704	0.5-	0.8-
1960 10 17	675	0.0	0.1-	2000 02 03	704	0.4-	0.1+	2000 03 08	704	0.3-	0.0
1960 10 22	675	0.5-	0.3+	2000 02 06	703	0.5-	0.2+	2000 03 08	704	0.4-	0.1-
1960 10 24	675	0.9-	0.4-	2000 02 06	703	0.3-	0.4-	2000 03 09	704	0.1-	0.1+
1960 10 26	675	1.0-	0.9+	2000 02 06	703	0.2-	0.0	2000 03 09	704	0.4-	0.1-
1998 11 16	704	1.4-	1.8-	2000 02 06	703	0.2+	0.2-	2000 03 09	704	0.3-	0.2-
1998 11 16	704	1.5+	0.4-	2000 02 29	704	1.0+	1.5+	2000 03 09	704	0.0	0.3-
1998 11 16	704	0.4-	1.3+	2000 02 29	704	0.2-	0.0	2000 03 09	704	0.5-	0.4-
1998 11 16	704	0.6+	0.3-	2000 02 29	704	0.4+	0.2+	2000 03 11	699	0.2+	0.3-
1999 12 09	704	0.6+	1.0-	2000 02 29	704	(2.2+	0.0)	2000 03 11	699	0.2-	0.2+
1999 12 09	704	0.0	0.5+	2000 02 29	704	0.6+	0.4+	2000 03 11	699	0.5-	0.5-
1999 12 09	704	0.3+	1.0+	2000 03 04	704	0.3+	0.1+	2000 03 11	699	0.5-	0.4-
1999 12 15	704	0.1-	1.0+	2000 03 04	704	0.0	0.1-	2000 03 12	704	1.3+	0.2+
1999 12 15	704	0.3+	0.1+	2000 03 04	704	0.3+	0.2-	2000 03 12	704	0.1+	0.5-

1999 12 15	704	0.5+	0.5-	2000 03 04	704	0.2+	0.2-	2000 03 12	704	0.5+	0.0
2000 02 03	704	0.4-	0.0	2000 03 04	704	0.3+	0.0	2000 03 12	704	0.0	0.2+
2000 02 03	704	0.4+	0.8+	2000 03 08	704	0.2-	0.1-				
2000 02 03	704	0.4+	0.5+	2000 03 08	704	0.1-	0.2-				

1071 T-1 = 2000 CU₃₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	20.38136		(2000.0)	P	Q		
<i>n</i>	0.27018417	ω	146.64416	-0.56771972	-0.82308913		
<i>a</i>	2.3697150	Ω	337.93607	+0.74642174	-0.50709797		
<i>e</i>	0.1358680	<i>i</i>	2.25575	+0.34720154	-0.25568718		
<i>P</i>	3.65	<i>H</i>	16.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1971 03 24	675	0.1-	1.1-	2000 02 29	704	0.3+	0.5+	2000 03 05	704	0.1-	0.1-
1971 03 25	675	2.4-	0.4-	2000 02 29	704	0.2-	0.7+	2000 03 09	691	0.2+	0.2-
1971 03 25	675	0.7+	0.1-	2000 02 29	704	0.6-	0.4+	2000 03 09	691	0.0	0.4-
1971 03 26	675	0.8+	0.5-	2000 02 29	704	0.1+	0.0	2000 03 09	691	0.0	0.7-
2000 02 04	120	0.6+	1.1-	2000 02 29	704	0.1-	0.5+	2000 03 10	691	0.1+	0.1-
2000 02 04	120	0.3-	0.3-	2000 03 02	691	0.4-	0.3-	2000 03 10	691	0.2+	0.1-
2000 02 06	120	0.3-	1.5-	2000 03 02	691	0.5-	0.5-	2000 03 10	691	0.2+	0.0
2000 02 06	120	0.1+	0.3+	2000 03 02	691	0.6-	0.7-	2000 03 11	704	1.3+	0.7+
2000 02 06	120	1.6-	1.8-	2000 03 03	704	1.4+	0.6-	2000 03 11	704	0.1+	0.4+
2000 02 06	120	(2.7-	0.1-)	2000 03 03	704	0.1-	0.7-	2000 03 11	704	0.7-	1.8+
2000 02 06	120	0.5-	0.3-	2000 03 03	704	0.4+	0.0	2000 03 11	704	1.0+	1.9+
2000 02 25	703	0.3-	1.5+	2000 03 05	704	0.6+	0.3+	2000 03 11	704	0.7+	1.4+
2000 02 25	703	0.9-	0.1-	2000 03 05	704	0.7+	0.0	2000 03 11	691	0.6+	0.1+
2000 02 25	703	1.1-	0.7+	2000 03 05	704	0.5+	0.1+	2000 03 11	691	0.7+	0.2+
2000 02 25	703	0.5-	0.2+	2000 03 05	704	0.5-	0.2-	2000 03 11	691	0.5+	0.1+

1131 T-1 = 1998 BH₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	137.14278		(2000.0)	P	Q		
<i>n</i>	0.28862636	ω	299.28742	-0.61531377	+0.78793254		
<i>a</i>	2.2676641	Ω	292.71891	-0.71411711	-0.56978777		
<i>e</i>	0.1804515	<i>i</i>	1.45857	-0.33380490	-0.23346136		
<i>P</i>	3.41	<i>H</i>	16.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1971 03 24	675	0.5+	0.6-	1971 03 27	675	0.5+	0.1+	1998 01 18	691	0.0	0.1+
1971 03 25	675	1.9-	0.3+	1971 04 02	675	0.2-	0.1-	1998 01 22	691	0.1+	0.1-
1971 03 25	675	0.2-	0.4+	1998 01 18	691	0.1-	0.1+	1998 01 22	691	0.0	0.1+
1971 03 26	675	1.2+	0.2-	1998 01 18	691	0.1-	0.3-	1998 01 22	691	0.1+	0.1+

1275 T-1 = 1987 GE₁ = 2000 EO₃₈

Id. G. V. Williams, T. Kobayashi

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	286.97669		(2000.0)	P	Q		
<i>n</i>	0.30576157	ω	277.79649	+0.00466900	+0.99991781		
<i>a</i>	2.1821308	Ω	352.44020	-0.87798620	-0.00161657		
<i>e</i>	0.1985576	<i>i</i>	5.20739	-0.47866318	+0.01271865		
<i>P</i>	3.22	<i>H</i>	15.4	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	0.7-	1.0+	2000 02 25	691	0.2+	0.7-	2000 04 04	704	(1.5+	2.1+)
1971 03 24	675	0.1+	0.2+	2000 03 08	704	0.3+	0.1-	2000 04 04	704	0.6-	0.4+
1971 03 25	675	0.8+	0.0	2000 03 08	704	0.9+	0.7+	2000 04 04	704	1.2+	0.4+
1971 03 25	675	0.2+	1.7-	2000 03 08	704	0.6+	0.8+	2000 04 05	704	0.1+	0.4+
1971 03 25	675	2.3-	0.2-	2000 03 08	704	0.9+	1.1+	2000 04 05	704	0.0	0.1-
1971 03 26	675	0.4-	1.3-	2000 03 08	704	(2.2+	1.6+)	2000 04 05	704	0.1-	0

M.P.C. 40278

2000 APR. 18

1971 04 16	675	0.5−	1.4−	2000 03 10	704	0.7+	0.7+	2000 04 06	704	0.2−	0.5+
1971 04 16	675	0.3+	2.0−	2000 03 10	704	0.9+	0.8+	2000 04 06	704	0.6−	1.0+
1971 05 13	675	0.9+	2.0−	2000 03 10	704	0.7+	1.4+	2000 04 06	704	0.1+	0.3+
1971 05 14	675	2.2−	0.8+	2000 03 11	704	0.3+	0.3−	2000 04 06	704	0.1−	0.6+
1987 04 01	675	1.6−	2.0−	2000 03 11	704	0.1−	0.3−	2000 04 06	704	0.4+	0.4+
1987 04 01	675	(2.7+	2.8−)	2000 03 11	704	0.0	0.1+	2000 04 06	704	0.8−	0.7+
1987 04 03	675	(7.5−	1.2−)	2000 03 11	704	0.1+	0.3−	2000 04 06	704	0.1−	0.2+
1987 04 03	675	0.9−	2.0−	2000 03 11	704	0.1−	0.1+	2000 04 06	704	0.2−	0.6+
1997 08 29	809	0.6−	0.0	2000 03 26	699	0.5+	0.1+	2000 04 06	704	0.1−	0.5+
1997 08 29	809	0.3−	0.3+	2000 03 26	699	0.0	0.3+	2000 04 07	704	0.4+	0.4+
1997 08 29	809	0.2−	0.1+	2000 03 26	699	0.4+	0.0	2000 04 07	704	0.9−	0.3+
1997 08 29	809	1.1+	0.2+	2000 03 26	699	0.8+	0.0	2000 04 07	704	0.2+	0.4+
2000 02 25	691	0.1+	0.5−	2000 04 04	688	0.2−	0.4+	2000 04 07	704	0.1+	0.1+
2000 02 25	691	0.3+	0.7−	2000 04 04	688	0.1+	0.4+	2000 04 07	704	0.0	0.5+

1294 T-1 = 2000 GN₁₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	289.54495	(2000.0)		P	Q		
<i>n</i>	0.27233059	ω	273.60790	−0.03785758	+0.99927555		
<i>a</i>	2.3572471	Ω	354.21819	−0.90078417	−0.03581390		
<i>e</i>	0.1444989	<i>i</i>	2.21679	−0.43261378	−0.01287420		
<i>P</i>	3.62	<i>H</i>	15.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1971 03 25	675	1.3+	0.8−	2000 03 29	691	0.1−	0.3−	2000 04 06	699	0.3−	0.3+
1971 03 25	675	1.6−	0.4+	2000 03 29	691	0.0	0.3−	2000 04 06	704	0.3−	0.4+
1971 03 25	675	0.1+	0.6−	2000 04 03	699	0.1+	0.1+	2000 04 06	704	1.5+	0.7+
1971 03 26	675	0.5+	0.2−	2000 04 03	699	0.5+	0.3−	2000 04 06	699	0.2−	0.4+
1971 03 26	675	0.9−	0.0	2000 04 03	699	0.1−	0.3+	2000 04 06	704	0.0	0.6+
1971 03 26	675	(3.3−	0.3+)	2000 04 03	699	0.4−	1.0+	2000 04 06	699	0.5−	0.7+
1971 03 27	675	(3.7+	5.9−)	2000 04 05	691	0.9−	0.2+	2000 04 06	704	0.5−	0.3+
1971 04 02	675	0.7−	1.2−	2000 04 05	691	0.9−	0.2+	2000 04 06	699	0.7−	0.2−
2000 03 10	704	0.4−	0.1−	2000 04 05	704	0.0	0.4+	2000 04 06	704	0.1+	0.4−
2000 03 10	704	0.6+	0.3+	2000 04 05	704	0.4−	0.3+	2000 04 07	704	0.4+	1.3−
2000 03 10	704	0.1−	0.3+	2000 04 05	691	0.8−	0.2+	2000 04 07	704	0.5+	0.9−
2000 03 10	704	(2.3+	1.3+)	2000 04 05	704	0.1+	0.5+	2000 04 07	704	0.4−	0.4−
2000 03 10	704	1.7+	1.4+	2000 04 05	704	1.3+	0.1+	2000 04 07	704	0.8+	1.6−
2000 03 29	691	0.1−	0.5−	2000 04 05	704	0.5−	0.2+	2000 04 07	704	1.2+	0.1+

2055 T-1 = 2000 CT₈₉

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	242.25524	(2000.0)		P	Q		
<i>n</i>	0.23687651	ω	303.48113	+0.58906386	+0.80796677		
<i>a</i>	2.5869501	Ω	2.73224	−0.61017639	+0.45601387		
<i>e</i>	0.2365264	<i>i</i>	16.96484	−0.52980047	+0.37315016		
<i>P</i>	4.16	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	1.9+	0.2+	2000 03 02	703	1.3−	0.4−	2000 04 02	699	0.1−	0.2+
1971 03 25	675	0.2+	0.2−	2000 03 02	703	0.2−	0.6−	2000 04 02	699	0.6+	0.2−
1971 03 25	675	0.2+	0.3+	2000 03 02	703	0.2−	0.2+	2000 04 02	699	0.3+	0.5+
1971 03 26	675	0.3−	0.4−	2000 03 11	699	0.4−	0.2−	2000 04 03	704	0.1−	0.8−
1971 03 27	675	2.0−	0.0	2000 03 11	699	0.1−	0.1−	2000 04 03	704	0.8+	0.8−
2000 02 04	704	0.2−	0.4−	2000 03 11	699	0.0	0.1−	2000 04 03	704	0.0	1.1+
2000 02 04	704	0.6+	0.2+	2000 03 11	699	0.6−	0.1+	2000 04 03	704	0.2+	1.0+
2000 02 04	704	0.4−	0.1−	2000 03 12	704	0.5+	0.1−	2000 04 03	704	0.7−	1.8+
2000 02 04	704	1.2−	1.2+	2000 03 12	704	0.3+	0.1+	2000 04 09	608	0.1+	0.5−
2000 02 11	704	0.5+	0.4−	2000 03 12	704	0.1−	0.2+	2000 04 09	608	0.3−	0.6−
2000 02 11	704	0.4+	0.1+	2000 03 12	704	0.2−	0.1+	2000 04 09	608	0.2+	0.6−
2000 02 11	704	0.3+	0.5−	2000 03 12	704	1.1+	0.2−				
2000 03 02	703	1.1+	0.3+	2000 04 02	699	0.6−	0.3−				

3232 T-1 = 1997 EQ₄₇ = 1997 ES₅₉ = 1999 RY₁₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P	Q
<i>M</i>	321.54000								
<i>n</i>	0.19063535	ω	239.23688	+0.34439005	−0.93817569				
<i>a</i>	2.9899718	Ω	190.79110	+0.91250201	+0.34325645				
<i>e</i>	0.1080342	<i>i</i>	10.76016	+0.22076137	+0.04473688				
<i>P</i>	5.17	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	2		

Residuals in seconds of arc

1971 03 24	675	(3.4+	1.1−)	1999 09 05	703	0.9+	0.6+	1999 09 14	704	1.2+	0.2−
1971 03 25	675	1.4+	2.1−	1999 09 05	703	0.2−	0.2+	1999 09 14	704	0.5+	1.0−
1971 03 26	675	0.6−	1.1−	1999 09 05	703	0.9−	1.1+	1999 10 07	703	0.3+	0.6−
1971 03 26	675	1.4−	0.5−	1999 09 05	703	0.9+	0.4+	1999 10 07	703	0.4−	0.3−
1971 03 27	675	(1.9−	2.6−)	1999 09 07	704	0.9+	0.4−	1999 10 07	703	0.3−	0.0
1971 04 16	675	0.7+	0.6+	1999 09 07	704	0.2+	0.0	1999 10 07	703	0.0	0.2−
1971 04 16	675	0.6−	0.9+	1999 09 07	704	0.0	0.3−	1999 10 13	704	0.4−	0.2−
1997 03 12	809	0.8+	1.6+	1999 09 07	704	0.3+	0.7−	1999 10 13	704	1.5−	0.9+
1997 03 12	809	(1.0+	2.7+)	1999 09 07	704	0.4+	0.1−	1999 10 13	704	0.7−	0.3−
1997 03 12	809	(1.0+	2.7+)	1999 09 09	704	0.5−	0.1+	1999 10 13	704	1.3−	0.6−
1997 03 13	809	(2.5−	0.8−)	1999 09 09	704	0.1+	0.7−	1999 10 13	704	0.4−	0.6−
1997 03 13	809	0.3+	1.2−	1999 09 09	704	0.8+	0.3+	1999 11 04	703	0.5−	0.4−
1997 03 13	809	0.8−	0.6+	1999 09 09	704	0.4+	0.1+	1999 11 04	703	0.2−	0.2+
1998 06 25	704	0.5+	0.0	1999 09 09	704	0.4−	0.8+	1999 11 04	703	0.0	0.3+
1998 06 25	704	(2.7+	1.7+)	1999 09 14	704	0.0	0.7+	1999 11 04	703	1.1−	0.4−
1998 06 25	704	0.7−	0.2+	1999 09 14	704	0.1+	0.1−				
1998 06 25	704	(3.2−	2.5+)	1999 09 14	704	1.3+	0.1−				

4075 T-1 = 1999 JS₁₀₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P	Q
<i>M</i>	78.68707								
<i>n</i>	0.17833946	ω	32.03496	−0.97823998	+0.20401415				
<i>a</i>	3.1258713	Ω	159.63499	−0.20577649	−0.93079022				
<i>e</i>	0.0893966	<i>i</i>	6.22689	−0.02650614	−0.30332787				
<i>P</i>	5.53	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	5		

Residuals in seconds of arc

1971 03 24	675	0.5+	0.3+	1999 05 13	704	0.9−	1.0−	1999 05 17	704	0.5+	1.3−
1971 03 26	675	0.4−	0.4+	1999 05 13	704	1.6−	0.2+	1999 05 17	704	(2.4−	0.5−)
1971 03 26	675	0.5+	0.4−	1999 05 13	704	0.2−	0.4−	1999 05 18	704	1.2+	0.7+
1971 03 27	675	1.1−	0.1+	1999 05 13	704	0.1+	1.8+	1999 05 18	704	(3.2−	0.5−)
1971 04 02	675	(5.2+	2.6−)	1999 05 13	704	1.9−	0.3+	1999 05 18	704	0.9+	0.5+
1971 05 13	675	0.5−	0.0	1999 05 17	704	0.9+	1.2−	1999 05 18	704	0.5+	1.2+
1971 05 14	675	0.2+	0.3−	1999 05 17	704	0.5+	0.6−	1999 05 18	704	0.0	0.1−

4205 T-1 = 2000 CU₉₀

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

				(2000.0)				P	Q
<i>M</i>	148.62453								
<i>n</i>	0.23797323	ω	215.83348	+0.90383883	−0.42566822				
<i>a</i>	2.5789959	Ω	169.10084	+0.42614995	+0.88647007				
<i>e</i>	0.1644882	<i>i</i>	13.26365	+0.03836132	+0.18159674				
<i>P</i>	4.14	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	4		

Residuals in seconds of arc

1971 03 24	675	(2.1+	3.1−)	2000 02 26	652	1.1−	1.0−	2000 03 29	704	0.7+	0.5−
1971 03 26	675	0.6+	0.3+	2000 02 26	652	1.8−	0.9−	2000 04 02	699	0.8−	0.4+
1971 03 26	675	0.9+	0.4−	2000 02 27	652	0.2−	0.4−	2000 04 02	699	0.5−	0.5+
1971 03 27	675	1.2−	2.3−	2000 02 27	652	0.4+	0.9−	2000 04 02	699	0.5−	0.2+
1971 04 02	675	0.7−	0.7+	2000 03 08	704	1.3+	0.1+	2000 04 02	699	0.7−	0.1+
2000 02 06	704	0.1+	0.1−	2000 03 08	704	0.7−	1.1+	2000 04 05	704	0.2−	0.5−
2000 02 06	704	1.0+	0.5−	2000 03 08	704	1.7+	0.4+	2000 04 05	704	0.3−	0.0
2000 02 06	704	0.1−	0.4−	2000 03 08	704	1.6+	1.6+	2000 04 05	704	0.2−	0.1+
2000 02 06	704	0.5−	1.3+	2000 03 12	704	0.2+	0.0	2000 04 05	704	0.7+	0.1−
2000 02 11	704	1.3+	1.4−	2000 03 12	704	0.2+	0.5+	2000 04 05	704	0.7−	0.6+
2000 02 11	704	0.1+	0.3+	2000 03 12	704	0.2+	0.2+	2000 04 08	704	0.6−	0.3−

2000 APR. 18

M.P.C. 40279

2000 02 11	704	0.4−	0.1−	2000 03 12	704	1.0+	1.8+	2000 04 08	704	0.5−	0.3−
2000 02 11	704	0.4−	0.7+	2000 03 29	704	0.9+	0.4−	2000 04 08	704	0.2+	0.5+
2000 02 11	704	0.1−	0.7+	2000 03 29	704	0.4+	0.4−	2000 04 08	704	0.3+	0.5−
2000 02 26	652	1.9−	0.8−	2000 03 29	704	0.7+	0.4−	2000 04 08	704	0.2−	0.2+

4242 T-1 = 2000 DS₅₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	53.16434	(2000.0)		P	Q		
<i>n</i>	0.16844242	ω	282.10446	−0.03646037	−0.99860378		
<i>a</i>	3.2471454	Ω	169.75212	+0.97994890	−0.04322451		
<i>e</i>	0.1494422	<i>i</i>	12.40717	+0.19588463	+0.03036656		
<i>P</i>	5.85	<i>H</i>	12.9	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	0.4−	0.8+	2000 02 02	704	0.1+	0.5−	2000 03 11	699	1.2+	0.6−
1971 03 26	675	0.6−	1.0−	2000 02 02	704	0.3+	0.0	2000 03 11	704	0.4−	0.2+
1971 03 26	675	0.4−	1.7−	2000 02 02	704	0.4+	0.3−	2000 03 11	699	0.3−	0.5+
1971 03 27	675	0.5−	2.2−	2000 02 02	704	0.8+	0.3+	2000 03 11	704	0.4−	0.1+
1971 04 02	675	0.5+	0.2+	2000 02 02	704	0.7−	1.6+	2000 03 11	699	0.5−	0.1+
1971 04 16	675	0.5+	1.7−	2000 02 06	704	0.3−	0.4+	2000 03 11	704	0.2−	0.4+
1971 04 16	675	0.1−	0.1−	2000 02 06	704	0.4−	1.1−	2000 03 11	704	0.2+	0.4+
1998 10 12	699	1.3+	0.8−	2000 02 06	704	0.1−	0.5−	2000 03 11	699	0.4−	0.5+
1998 10 12	699	0.1−	0.6−	2000 02 06	704	0.0	0.3−	2000 03 11	704	0.0	1.1+
1998 10 12	699	0.4+	0.3−	2000 02 29	704	0.1+	0.1+	2000 04 03	704	0.5+	0.0
1998 10 29	699	0.2−	0.4−	2000 02 29	704	0.2+	0.3+	2000 04 03	704	0.3+	0.4+
1998 10 29	699	0.2+	0.5+	2000 02 29	704	0.4+	0.1+	2000 04 03	704	0.0	0.2+
1998 10 29	699	0.0	0.5+	2000 02 29	704	0.3−	0.2−	2000 04 03	704	0.0	0.0
1998 11 13	704	0.9+	1.2−	2000 03 03	704	0.2+	0.0	2000 04 03	704	0.2−	0.1+
1998 11 13	704	0.2−	0.0	2000 03 03	704	0.2+	0.2−	2000 04 04	699	0.2−	0.4+
1998 11 13	704	0.5+	1.3−	2000 03 03	704	0.1+	0.2−	2000 04 04	699	0.1−	0.6+
1998 11 13	704	1.9−	1.9+	2000 03 03	704	0.2+	0.3−	2000 04 04	699	0.1−	0.7+
1998 11 13	704	0.2−	0.6−	2000 03 03	704	0.1−	0.3−	2000 04 04	699	0.3+	0.3+

4281 T-1 = 2000 EO₇₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	268.75578	(2000.0)		P	Q		
<i>n</i>	0.23552889	ω	162.41915	−0.15513599	+0.98691660		
<i>a</i>	2.5968085	Ω	98.63908	−0.91162743	−0.12589132		
<i>e</i>	0.1363399	<i>i</i>	2.54581	−0.38061563	−0.10073235		
<i>P</i>	4.18	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1971 03 24	675	0.4−	0.3+	2000 02 11	704	0.4−	0.3−	2000 03 05	704	0.2−	0.5+
1971 03 26	675	2.0−	1.1−	2000 02 11	704	0.3−	0.2+	2000 03 11	699	0.2−	0.1+
1971 03 26	675	1.6−	0.7−	2000 02 11	704	0.5+	0.4−	2000 03 11	699	0.2−	0.3+
1971 03 27	675	1.4+	1.9−	2000 02 11	704	0.4−	0.6+	2000 03 11	699	0.6+	0.0
1971 04 02	675	0.3−	1.3+	2000 02 11	704	1.0+	0.0	2000 03 11	699	0.0+	0.9−
1971 04 16	675	1.2+	0.7−	2000 02 25	703	0.2−	1.7+	2000 03 12	704	0.7−	0.9−
1971 04 16	675	0.7+	0.0	2000 02 25	703	0.3+	0.3+	2000 03 12	704	0.4+	0.1−
1971 05 13	675	0.0	0.9+	2000 02 25	703	0.3+	0.1−	2000 03 12	704	0.7+	0.1+
1971 05 14	675	0.7+	0.9+	2000 02 25	703	(2.3−	3.1+)	2000 03 12	704	0.5+	0.8−
2000 02 01	703	0.5−	0.1+	2000 03 05	704	0.3+	0.0	2000 04 03	699	0.6−	0.1−
2000 02 01	703	0.0	1.7−	2000 03 05	704	0.1−	0.8+	2000 04 03	699	0.2+	0.9+
2000 02 01	703	0.7+	1.5−	2000 03 05	704	0.0	0.8+	2000 04 03	699	0.6−	1.3+
2000 02 01	703	0.8−	0.2+	2000 03 05	704	0.1−	0.5+	2000 04 03	699	0.1+	0.3−

4329 T-1 = 1972 TB₁₀ = 2000 GN₅₅

Id. G. V. Williams, M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	271.16933	(2000.0)		P	Q		
<i>n</i>	0.27322929	ω	253.41430	+0.53065863	+0.84592342		
<i>a</i>	2.3520753	Ω	48.75716	−0.74826571	+0.49695999		
<i>e</i>	0.1752298	<i>i</i>	4.04622	−0.39812040	+0.19350539		
<i>P</i>	3.61	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1971 03 24	675	1.0+	1.6−	1972 10 09	033	0.1−	0.7−	2000 04 06	704	0.3+	0.4+
1971 03 26	675	0.5−	0.6−	1972 10 09	033	0.3+	0.6−	2000 04 06	704	0.1+	0.0
1971 03 26	675	1.4−	0.6−	1990 09 28	675	1.0−	1.2−	2000 04 07	704	0.2+	0.0
1971 03 27	675	0.0	1.4+	2000 04 05	704	0.0	0.2−	2000 04 07	704	0.4+	0.4−
1971 04 02	675	0.4+	0.1−	2000 04 05	704	0.3+	0.1−	2000 04 07	699	0.7−	0.5−
1971 04 16	675	(4.2+	2.0+)	2000 04 05	704	0.4+	0.2−	2000 04 07	699	0.4−	0.3−
1971 04 16	675	1.1+	1.3−	2000 04 05	704	0.2+	0.5−	2000 04 07	704	0.2−	0.2−
1971 05 13	675	1.9−	1.6+	2000 04 05	704	0.7+	0.0	2000 04 07	699	0.7−	0.3−
1971 05 14	675	0.4−	1.4+	2000 04 06	704	0.1+	0.1−	2000 04 07	704	0.2−	0.3−
1972 10 09	033	1.1+	0.3−	2000 04 06	704	0.3+	0.4−	2000 04 07	699	0.6−	0.1−
1972 10 09	033	1.3+	0.7−	2000 04 06	704	0.7−	0.5−				

1026 T-2 = 1998 XP₆₅ = 2000 EU

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	236.49226	(2000.0)		P	Q		
<i>n</i>	0.28118625	ω	306.72602	+0.60586364	+0.79556812		
<i>a</i>	2.3074909	Ω	0.56677	−0.70248650	+0.53543695		
<i>e</i>	0.1235728	<i>i</i>	4.52059	−0.37341928	+0.28351126		
<i>P</i>	3.51	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1973 09 19	675	0.9+	0.6−	2000 03 05	120	(0.5+	3.0−)	2000 04 02	691	1.1−	1.0−
1973 09 19	675	0.9+	1.9−	2000 03 06	120	0.2−	0.9−	2000 04 02	691	0.4−	0.7−
1973 09 20	675	0.2−	0.9−	2000 03 06	120	(3.0−	1.0−)	2000 04 05	704	0.1−	0.8+
1973 09 24	675	0.4+	0.9−	2000 03 11	704	0.7+	0.4−	2000 04 05	704	0.4−	0.2+
1973 09 24	675	0.5−	0.4−	2000 03 11	704	0.4+	0.4−	2000 04 05	704	0.0	0.6+
1973 09 25	675	1.8−	1.4+	2000 03 11	704	0.5+	0.0	2000 04 05	704	0.2−	0.2+
1973 09 25	675	0.7−	0.0	2000 03 11	704	0.6+	0.8+	2000 04 05	704	0.4−	0.8+
1973 09 29	675	2.3+	0.5+	2000 03 11	704	0.1+	0.9+	2000 04 06	704	0.1−	0.3+
1973 09 29	675	0.2+	0.4−	2000 03 15	704	0.2−	0.5−	2000 04 06	704	0.4−	0.3+
1973 09 30	675	0.5−	0.5+	2000 03 15	704	0.3−	0.2+	2000 04 06	704	0.5+	0.5+
1973 09 30	675	0.8+	0.1−	2000 03 15	704	0.1−	0.0	2000 04 06	704	0.3−	0.9+
1973 10 04	675	0.7+	1.6−	2000 03 15	704	0.8−	0.7+	2000 04 06	704	0.3−	1.1+
1973 10 04	675	0.0	1.0−	2000 03 15	120	1.0−	0.3−	2000 04 08	704	0.5+	0.0
1998 12 14	704	1.0+	1.0−	2000 03 15	120	(2.2−	2.1−)	2000 04 08	704	0.3+	0.2−
1998 12 14	704	1.6+	1.2−	2000 03 26	699	0.9−	0.6−	2000 04 08	704	0.5+	0.2+
1998 12 14	704	1.1−	1.5+	2000 03 26	699	0.7−	0.5−	2000 04 10	704	0.5+	0.5−
1998 12 17	704	0.1+	0.2+	2000 03 26	699	1.1−	0.8−	2000 04 10	704	0.3+	0.6−
1998 12 17	704	0.2+	0.5+	2000 03 26	699	0.2−	0.4−	2000 04 10	704	0.2+	0.1−
1998 12 17	704	0.9−	0.8+	2000 04 02	699	0.3−	0.2+	2000 04 11	691	0.2−	0.7−
1998 12 17	704	1.1−	0.4−	2000 04 02	699	1.5+	0.0	2000 04 11	691	0.4−	0.7−
2000 03 02	120	(1.4−	2.3−)	2000 04 02	699	0.7+	0.4−	2000 04 11	691	0.3−	0.9−
2000 03 02	120	0.2−	1.3−	2000 04 02	699	0.6+	0.4−				
2000 03 05	120	0.1+	1.3−	2000 04 02	691	0.4−	0.8−				

1200 T-2 = 2000 BC₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

				Williams			
<i>M</i>	14.61007	(2000.0)		P	Q		
<i>n</i>	0.23326715	ω	103.33205	−0.17288348	−0.98484538		
<i>a</i>	2.6135672	Ω	356.53295	+0.79192166	−0.13064908		
<i>e</i>	0.1564460	<i>i</i>	13.20646	+0.58563760	−0.11406314		
<i>P</i>	4.23	<i>H</i>	14.8	<i>G</i>	0.15	<i>U</i>	3

Residuals in seconds of arc

1973 09 19	675	0.1+	0.8-	1999 12 05	699	0.1-	0.0	2000 01 21	704	0.3-	0.2-
1973 09 19	675	1.1-	0.4-	1999 12 05	699	0.4+	0.0	2000 01 21	704	0.5-	0.3+
1973 09 24	675	(3.2-	1.2-)	1999 12 05	699	0.3+	0.3-	2000 01 27	704	0.2-	0.2-
1973 09 24	675	1.9-	0.7-	1999 12 13	704	0.5-	0.2+	2000 01 27	704	0.1-	0.7-
1973 09 25	675	(3.8-	1.2-)	1999 12 13	704	0.1+	0.5-	2000 01 27	704	0.2-	0.5-
1973 09 25	675	0.4-	1.1+	1999 12 13	704	0.3-	0.3-	2000 01 27	704	0.2-	0.0
1973 09 29	675	0.7+	0.6-	1999 12 13	704	0.4-	0.3+	2000 01 27	704	0.2+	0.1-
1973 09 29	675	0.2-	0.2-	1999 12 13	704	0.3-	1.5+	2000 02 26	704	0.6-	0.0
1973 09 30	675	1.7+	1.7+	1999 12 30	704	0.2-	0.2+	2000 02 26	704	0.4-	0.6+
1973 09 30	675	0.6-	1.5+	1999 12 30	704	0.4+	0.0	2000 02 26	704	0.8+	0.0
1973 10 04	675	2.2+	1.3-	1999 12 30	704	0.9+	0.4+	2000 02 26	704	0.9-	0.1-
1973 10 04	675	(0.8+	2.8-)	1999 12 30	704	0.7+	0.3+	2000 02 26	704	0.7+	0.6-
1973 10 05	675	0.4-	0.1+	1999 12 30	704	0.8+	0.1+	2000 02 26	704	0.4+	0.6+
1973 10 05	675	0.0	0.8-	2000 01 21	704	0.4-	1.0-				

1354 T-2 = 2000 CH₂₇

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	319.60805		(2000.0)	P	Q		
n	0.20201090	ω	10.61348	-0.97653240	+0.21535648		
a	2.8766444	Ω	181.82843	-0.20281547	-0.92338685		
e	0.0689682	i	4.42027	-0.07245929	-0.31777085		
P	4.88	H	14.0	G	0.15	U	4

Residuals in seconds of arc

1973 09 19	675	0.1-	0.1-	1973 10 05	675	0.9-	1.3+	2000 02 04	704	0.3+	1.0-
1973 09 19	675	0.6+	0.9-	1973 10 05	675	0.8+	0.6-	2000 02 27	703	0.5-	0.1+
1973 09 24	675	1.0-	0.4+	1973 10 05	675	0.8+	0.1+	2000 02 27	703	0.6-	0.2-
1973 09 24	675	1.2-	0.8+	1973 10 05	675	1.5-	1.0+	2000 02 27	703	0.2+	0.3+
1973 09 25	675	0.7-	0.0	1998 11 11	699	0.4-	0.1-	2000 02 27	703	0.3-	0.3+
1973 09 25	675	0.0	1.1-	1998 11 11	704	0.1+	1.5-	2000 02 29	704	0.3+	0.1-
1973 09 29	675	(2.1+	3.4-)	1998 11 11	704	1.0-	0.4-	2000 02 29	704	0.1-	0.8+
1973 09 29	675	0.6-	1.2-	1998 11 11	699	0.3-	0.9+	2000 02 29	704	0.7-	0.1+
1973 09 29	675	0.7+	1.4-	1998 11 11	704	(2.8-	0.8+)	2000 02 29	704	0.6-	1.0+
1973 09 29	675	0.4-	0.1+	1998 11 11	699	0.4+	0.2+	2000 02 29	704	0.4-	0.8+
1973 09 29	675	1.7+	0.7-	1998 11 18	704	0.8+	1.2+	2000 03 03	704	0.0	0.6-
1973 09 30	675	(2.8+	2.1+)	1998 11 18	704	0.8-	0.3-	2000 03 03	704	0.3+	0.5+
1973 09 30	675	0.3-	0.2-	1998 11 18	704	1.7+	0.9+	2000 03 03	704	0.2-	0.3-
1973 09 30	675	1.2+	0.0	1998 11 18	704	0.3-	1.4-	2000 03 03	704	0.1+	0.7-
1973 09 30	675	1.0+	0.3-	2000 02 02	704	0.4+	0.7-	2000 03 03	704	0.5+	0.7-
1973 10 04	675	0.5-	1.3-	2000 02 02	704	0.5+	0.4+	2000 03 05	704	0.4+	0.1-
1973 10 04	675	0.3-	0.2+	2000 02 02	704	0.3+	0.1-	2000 03 05	704	0.4-	0.2-
1973 10 04	675	1.2-	0.5+	2000 02 02	704	0.3+	0.5+	2000 03 05	704	0.1+	0.3-
1973 10 04	675	0.1+	0.7+	2000 02 02	704	0.1-	0.5+	2000 03 05	704	0.6+	0.5+
1973 10 04	675	1.2+	0.4+	2000 02 04	704	0.2+	0.1+	2000 03 05	704	0.2-	0.5+
1973 10 04	675	1.0-	1.7+	2000 02 04	704	0.1-	0.8+	2000 03 11	608	0.0	0.5-
1973 10 05	675	0.1-	1.7-	2000 02 04	704	0.8+	0.3-	2000 03 11	608	0.1+	0.7-
1973 10 05	675	1.4+	0.4+	2000 02 04	704	1.1-	0.2-	2000 03 11	608	0.1+	0.4-

1441 T-2 = 2000 GV₃₃

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

$\dot{M}$	209.38033		(2000.0)	P	Q
n	0.20626086	ω	344.61054	+0.95908652	+0.28311206
a	2.8369924	Ω	358.94249	-0.25509293	+0.86296740
e	0.0355748	i	2.41875	-0.12280328	+0.41849112
P	4.78	H	14.9	G 0.15	U 6

Residuals in seconds of arc

1973 09 19	675	0.4-	0.6+	2000 04 05	704	0.9+	0.1+	2000 04 06	699	0.2-	0.1+
1973 09 19	675	0.6-	0.2+	2000 04 05	704	0.2+	0.5-	2000 04 06	704	0.5-	0.1-
1973 09 24	675	0.7+	0.7-	2000 04 05	704	0.4+	0.2+	2000 04 06	699	0.5-	0.0
1973 09 24	675	0.4-	0.2+	2000 04 05	704	0.7+	0.2+	2000 04 06	704	0.8+	0.6-
1973 09 29	675	0.8+	0.2+	2000 04 05	704	0.8+	0.1+	2000 04 08	704	1.2-	0.8-
1973 09 29	675	1.9+	2.1-	2000 04 06	699	0.7-	0.7-	2000 04 08	704	0.3-	0.2+

1973 09 30	675	0.0	0.7-	2000 04 06	704	0.3-	0.3+	2000 04 08	704	0.1-	0.6+
1973 09 30	675	0.9-	0.1+	2000 04 06	699	1.8+	0.3-	2000 04 08	704	(2.2-	1.8+)
1973 10 04	675	0.5+	0.5+	2000 04 06	704	1.1-	0.3+				
1973 10 04	675	1.6-	1.7+	2000 04 06	704	0.8-	0.9+				

2157 T-2 = 1995 UR₁₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	280.77332		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$
n	0.17986530	ω	9.37481	+0.94028249	-0.33625397
a	3.1081678	Ω	10.73564	+0.29099243	+0.71335108
e	0.1055070	i	16.50934	+0.17661326	+0.61486869
P	5.48	H	13.9	G 0.15	U 6

Residuals in seconds of arc

1973 09 19	675	0.5-	0.8-	1973 09 25	675	0.1-	2.9-	1973 10 04	675	0.6+	0.4+
1973 09 19	675	0.7+	0.9+	1973 09 25	675	1.1-	2.2+	1973 10 05	675	2.4+	1.5-
1973 09 19	675	1.7+	0.1-	1973 09 29	675	1.7-	0.9-	1973 10 05	675	0.9-	2.5+
1973 09 19	675	0.9-	1.1+	1973 09 29	675	2.4+	1.6-	1973 10 05	675	0.8+	2.0-
1973 09 20	675	1.1-	0.6+	1973 09 29	675	1.4-	1.9-	1973 10 05	675	2.0-	2.5+
1973 09 20	675	0.6-	1.2+	1973 09 29	675	1.6+	0.7-	1995 10 17	691	0.6-	0.6+
1973 09 24	675	1.1-	1.6-	1973 09 30	675	1.8+	1.0-	1995 10 17	691	0.7-	0.7+
1973 09 24	675	0.1+	0.2+	1973 09 30	675	1.9+	1.1+	1995 10 17	691	0.5-	0.5+
1973 09 24	675	1.7-	1.3-	1973 09 30	675	0.0	1.4-	1995 10 23	691	0.5+	0.3-
1973 09 24	675	0.1+	0.5+	1973 09 30	675	1.2+	2.1+	1995 10 23	691	0.5+	0.6-
1973 09 25	675	0.1-	3.1-	1973 10 04	675	0.4-	1.3-	1995 10 23	691	0.4+	0.5-
1973 09 25	675	0.0	2.6+	1973 10 04	675	1.7-	3.6+				

2208 T-2 = 2000 GZ₄₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	239.85285		(2000.0)	P	Q
n	0.28236254	ω	310.34127	+0.80406151	+0.59438515
a	2.3010779	Ω	13.20924	-0.52548427	+0.72135503
e	0.1138892	i	3.47094	-0.27812115	+0.35546198
P	3.49	H	15.0	G 0.15	U 4

Residuals in seconds of arc

1973 09 19	675	0.6+	1.0+	1973 09 30	675	0.4-	0.9-	2000 04 05	704	0.9+	1.5-
1973 09 19	675	0.9+	1.1+	1973 10 04	675	0.6+	0.1+	2000 04 05	704	0.4-	0.2+
1973 09 20	675	1.0-	1.1-	1973 10 04	675	0.9+	0.6+	2000 04 05	704	(2.4+	0.6-)
1973 09 24	675	0.5-	0.4+	1973 10 05	675	1.0+	0.4-	2000 04 05	704	0.0	0.3+
1973 09 24	675	0.4-	0.6+	1973 10 05	675	0.5+	0.2-	2000 04 06	704	0.8-	0.0
1973 09 25	675	0.7+	2.4-	1994 10 08	691	0.0	0.6+	2000 04 06	704	0.1+	0.5+
1973 09 29	675	1.4-	1.4+	1994 10 08	691	0.3-	0.3+	2000 04 06	704	0.1-	0.1-
1973 09 29	675	0.1-	0.4+	1994 10 08	691	0.1-	0.1+	2000 04 06	704	0.1-	0.1+
1973 09 30	675	1.0-	1.2-	2000 04 05	704	0.6+	0.2+	2000 04 06	704	0.0	0.6+

2247 T-2 = 1983 VQ₅ = 2000 EP

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

M	176.85943		(2000.0)	$\mathbf{P}$	$\mathbf{Q}$		
n	0.20337936	ω	25.95321	+0.98811635	+0.15325377		
a	2.8637261	Ω	325.22488	-0.14438209	+0.89908023		
e	0.0790266	i	1.18596	-0.05272464	+0.41008295		
P	4.85	H	14.2	G	0.15	U	5

Residuals in seconds of arc

1973 09 19	675	0.3+	0.3-	2000 02 27	703	1.3+	0.3-	2000 03 11	732	0.3-	0.9-
1973 09 19	675	0.9+	0.4+	2000 02 27	703	0.1-	0.6+	2000 03 11	704	0.2+	0.2-
1973 09 20	675	0.7+	0.3-	2000 03 02	732	1.2-	0.5-	2000 03 11	699	0.2+	0.2-
1973 09 24	675	2.4-	0.3+	2000 03 02	732	1.8-	0.7-	2000 03 11	704	0.3+	0.1-
1973 09 24	675	2.2-	1.0+	2000 03 03	704	0.8+	0.5-	2000 03 11	704	0.1-	0.0
1973 09 25	675	0.9+	0.7-	2000 03 03	704	0.2+	0.1+	2000 03 11	699	0.3+	0.4+
1973 09 25	675	0.9-	2.1-	2000 03 03	704	0.1+	0.5+	2000 03 11	704	0.0	0.1-
1973 09 29	675	1.1+	1.8+	2000 03 03	704	0.6+	0.2-	2000 03 11	699	0.3-	0.3+

2000 APR. 18

M.P.C. 40281

1973 09 29	675	1.2−	0.7+	2000 03 04	704	0.2+	0.1+	2000 03 11	704	0.3+	0.3+
1973 09 30	675	0.1+	0.1−	2000 03 04	704	1.1+	0.2+	2000 03 11	699	0.1−	0.6−
1973 09 30	675	1.1+	0.4−	2000 03 04	732	2.0−	0.5+	2000 03 25	732	0.4−	0.2−
1973 10 04	675	1.3+	1.6−	2000 03 04	732	2.0−	0.4−	2000 03 25	732	0.2+	0.4−
1973 10 04	675	1.5+	0.5−	2000 03 04	704	0.1+	0.8+	2000 03 28	732	0.8+	1.1−
1973 10 05	675	1.1+	2.3−	2000 03 04	704	0.5−	0.2+	2000 03 28	732	1.8+	0.1+
1973 10 05	675	0.5+	2.1−	2000 03 04	704	0.1+	0.4+	2000 03 28	732	0.1−	0.5−
1983 11 09	033	0.3−	1.3+	2000 03 09	732	0.4−	0.5−	2000 04 06	704	0.3+	0.3+
1983 11 10	033	0.6−	1.5+	2000 03 09	732	1.5−	1.2−	2000 04 06	704	0.6+	0.5−
2000 02 27	703	1.0+	0.9+	2000 03 11	732	0.6−	0.7−	2000 04 06	704	0.2+	0.7+
2000 02 27	703	0.6−	0.4−	2000 03 11	732	0.6−	0.9−				

2265 T-2 = 2000 GH₂₀

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	215.34184		(2000.0)	P	Q		
<i>n</i>	0.28072949	<i>ω</i>	152.97097	+0.90570955	+0.42389623		
<i>a</i>	2.3099932	<i>Ω</i>	181.95003	−0.39635831	+0.84562300		
<i>e</i>	0.1097810	<i>i</i>	2.49263	−0.15030070	+0.32439747		
<i>P</i>	3.51	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	1.7+	0.0	1973 10 04	675	1.4−	0.1−	2000 04 05	704	0.2+	0.0
1973 09 19	675	0.2−	1.2−	1973 10 05	675	0.3+	0.8−	2000 04 05	704	0.3−	0.2+
1973 09 20	675	1.0+	0.3−	1973 10 05	675	0.4+	0.6−	2000 04 05	704	0.4+	0.2+
1973 09 24	675	0.3+	0.5−	1996 02 16	691	0.1−	0.1−	2000 04 06	704	0.1+	0.2+
1973 09 24	675	1.5−	0.8−	1996 02 16	691	0.1+	0.3−	2000 04 06	704	0.3−	0.1+
1973 09 25	675	(4.3+	3.5−)	1996 02 16	691	0.2−	0.3−	2000 04 06	704	0.4−	0.1+
1973 09 29	675	1.1+	1.0+	2000 04 01	691	0.2+	1.8−	2000 04 06	704	0.7−	0.5+
1973 09 29	675	0.2−	1.1+	2000 04 01	691	0.0	0.8−	2000 04 12	691	0.7−	0.8−
1973 09 30	675	1.2+	0.6−	2000 04 01	691	0.2−	1.0−	2000 04 12	691	0.4−	1.0−
1973 09 30	675	0.1+	2.2−	2000 04 05	704	1.1+	0.5−	2000 04 12	691	0.7−	1.1−
1973 10 04	675	1.1−	0.5+	2000 04 05	704	0.0	0.8+				

2270 T-2 = 2000 DJ₅₇

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	238.05413		(2000.0)	P	Q		
<i>n</i>	0.20343643	<i>ω</i>	78.97477	+0.30929200	+0.95089948		
<i>a</i>	2.8631904	<i>Ω</i>	209.04963	−0.88136126	+0.28215417		
<i>e</i>	0.0452038	<i>i</i>	1.33841	−0.35712854	+0.12719747		
<i>P</i>	4.84	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	6

Residuals in seconds of arc

1973 09 19	675	(3.1−	0.5+)	1973 10 04	675	0.2+	0.9−	2000 03 03	704	0.1+	0.5+
1973 09 19	675	0.6−	0.5+	2000 02 25	691	0.6−	0.8−	2000 03 03	704	0.0	0.2+
1973 09 20	675	1.2+	0.4−	2000 02 25	691	0.5−	0.6−	2000 03 03	704	0.2+	0.5+
1973 09 24	675	(4.1−	0.7−)	2000 02 25	691	0.1−	0.7−	2000 03 11	704	0.6−	0.8+
1973 09 24	675	2.5−	0.3+	2000 02 29	704	0.2+	0.4−	2000 03 11	704	0.0	0.1+
1973 09 29	675	1.2−	0.8+	2000 02 29	704	1.2+	0.3−	2000 03 11	704	0.4−	0.9+
1973 09 29	675	0.8−	1.2+	2000 02 29	704	0.5+	0.3−	2000 03 11	704	0.5−	0.1+
1973 09 30	675	(2.3−	3.5−)	2000 02 29	704	0.2+	0.3+	2000 03 11	704	0.2−	0.2−
1973 09 30	675	1.1−	2.1−	2000 03 03	704	0.1+	0.3+				
1973 10 04	675	1.4+	1.8−	2000 03 03	704	0.4+	0.1+				

2279 T-2 = 2000 GX₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.15236		(2000.0)	P	Q		
<i>n</i>	0.20190612	<i>ω</i>	232.27052	+0.81097352	−0.58500752		
<i>a</i>	2.8776396	<i>Ω</i>	163.52628	+0.54668165	+0.75193069		
<i>e</i>	0.1203844	<i>i</i>	1.89741	+0.20847333	+0.30391848		
<i>P</i>	4.88	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1973 09 19	675	0.2−	1.4−	1973 10 04	675	0.9−	0.4+	2000 03 11	699	0.1−	0.3+
1973 09 19	675	0.3+	1.1+	1973 10 05	675	0.3−	0.4−	2000 03 25	691	0.1+	0.3−

1973 09 20	675	1.0+	0.7−	1973 10 05	675	1.7−	0.2−	2000 03 25	691	0.2−	0.3−
1973 09 24	675	0.7−	1.3+	1995 03 02	691	0.3+	0.4+	2000 03 25	691	0.0	0.4−
1973 09 24	675	0.9−	1.1+	1995 03 02	691	0.1+	0.4+	2000 04 05	704	0.1+	0.1+
1973 09 25	675	2.2+	1.5−	1995 03 02	691	0.1+	0.5+	2000 04 05	704	0.1−	0.6−
1973 09 25	675	1.2+	1.3−	2000 03 04	691	0.4−	0.8−	2000 04 05	704	0.0	0.0
1973 09 29	675	0.8+	0.4−	2000 03 04	691	0.5−	0.7−	2000 04 05	704	0.1−	0.1−
1973 09 29	675	0.5+	0.2−	2000 03 04	691	0.8−	0.9−	2000 04 05	704	0.3+	0.0
1973 09 30	675	0.4+	0.6+	2000 03 11	699	0.3+	0.2+	2000 04 06	704	0.7−	0.3−
1973 09 30	675	0.0	1.0−	2000 03 11	699	0.5+	0.4+	2000 04 06	704	0.3+	0.3+
1973 10 04	675	1.2−	1.3+	2000 03 11	699	0.7+	0.2−	2000 04 06	704	0.4−	0.6+

3028 T-2 = 2000 FG₂₆

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	194.52448		(2000.0)	P	Q		
<i>n</i>	0.20591748	<i>ω</i>	271.07010	+0.98767899	+0.14699567		
<i>a</i>	2.8401454	<i>Ω</i>	80.47863	−0.11296511	+0.90711069		
<i>e</i>	0.0774632	<i>i</i>	3.12065	−0.10830095	+0.39438873		
<i>P</i>	4.79	<i>H</i>	13.9	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	0.7−	1.0−	2000 03 08	704	0.2+	0.1+	2000 04 07	704	0.1−	0.1−
1973 09 19	675	1.6−	1.3−	2000 03 08	704	0.0	0.6−	2000 04 08	704	0.3+	0.1+
1973 09 20	675	1.2+	0.4−	2000 03 08	704	0.0	0.2−	2000 04 08	704	0.7+	0.3+
1973 09 24	675	1.4+	0.9−	2000 03 08	704	0.2+	0.2−	2000 04 08	704	0.1−	0.7−
1973 09 24	675	1.8+	0.8−	2000 03 27	699	0.5−	0.4−	2000 04 08	704	0.4−	0.0
1973 09 25	675	(3.4+	1.6−)	2000 03 27	699	1.0−	0.3+	2000 04 08	704	0.1−	0.5+
1973 09 25	675	2.3+	2.5−	2000 03 27	699	0.2+	0.3−	2000 04 08	704	1.7+	0.8+
1973 09 29	675	0.1+	1.1+	2000 03 27	699	0.6−	0.5−	2000 04 08	704	0.3−	0.1+
1973 09 29	675	1.4−	2.1+	2000 04 02	699	0.6−	0.2+	2000 04 08	704	0.3+	0.3−
1973 09 30	675	0.6−	0.7−	2000 04 02	699	1.6−	0.1−	2000 04 10	704	0.1+	0.4+
1973 09 30	675	1.3−	0.5−	2000 04 02	699	0.9−	0.6+	2000 04 10	704	1.0+	0.1+
1973 10 04	675	1.0−	1.7+	2000 04 02	699	1.9−	0.1+	2000 04 10	704	0.6+	0.2+
1973 10 04	675	1.1−	1.3+	2000 04 07	704	0.4+	0.5+	2000 04 10	704	1.0+	0.1−
1973 10 05	675	1.6+	1.6+	2000 04 07	704	0.9+	1.6−	2000 04 10	704	0.3+	0.8+
1973 10 05	675	0.2−	1.0+	2000 04 07	704	0.0	0.4+				
2000 03 08	704	0.3+	0.8−	2000 04 07	704	0.4+	0.9+				

3083 T-2 = 2000 GP₁₈

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>	127.67629		(2000.0)	P	Q		
<i>n</i>	0.27859486	<i>ω</i>	40.56992	+0.65767684	−0.75313199		
<i>a</i>	2.3217778	<i>Ω</i>	8.35042	+0.65968234	+0.56561199		
<i>e</i>	0.0733019	<i>i</i>	6.29260	+0.36370371	+0.33596915		
<i>P</i>	3.54	<i>H</i>	16.2	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1973 09 19	675	1.3+	1.0−	1973 10 04	675	0.1−	0.6−	2000 03 29	691	0.5−	0.4−
1973 09 19	675	1.8+	2.0−	1973 10 04	675	(2.6+	0.5−)	2000 04 05	704	0.4+	0.2+
1973 09 19	675	0.7+	1.5+	1973 10 04	675	(0.8−	3.0−)	2000 04 05	704	0.3+	0.3−
1973 09 20	675	0.5+	1.7−	1973 10 04	675	0.9−	0.2−	2000 04 05	704	0.5−	0.1+
1973 09 20	675	0.8+	1.5+	1973 10 05	675	2.2−	0.9+	2000 04 05	691	0.9−	0.6−
1973 09 24	675	0.5−	1.3−	1973 10 05	675	1.5+	1.4−	2000 04 05	704	0.8+	0.7+
1973 09 24	675	0.2+	1.9+	1973 10 05	675	0.7+	0.9+	2000 04 05	704	1.4+	0.3+
1973 09 24	675	0.2−	2.2−	1973 10 05	675	1.0+	0.1+	2000 04 05	691	0.9−	0.8−
1973 09 24	675	0.7+	2.2+	1998 11 11	704	1.5+	1.0+	2000 04 05	691	0.7−	0.6−
1973 09 25	675	0.2+	0.3+	1998 11 11	704	0.5−	0.1−	2000 04 06	704	(2.2+	0.4−)
1973 09 25	675	1.2−	0.2−	1998 11 11	704	1.3−	1.0−	2000 04 06	704	0.9+	0.8−
1973 09 25	675	1.7−	1.4+	1998 11 11	704	0.4+	0.1−	2000 04 06	704	1.5+	0.1+
1973 09 29	675	0.2−	0.5−	2000 03 27	699	1.0−	0.0	2000 04 06	704	0.5+	0.2−
1973 09 29	675	0.8−	0.8−	2000 03 27	699	0.2−	0.5+	2000 04 06	704	0.4+	0.3+
1973 09 29	675	0.6−	0.8−	2000 03 27	699	0.4−	0.6+	2000 04 06	704	0.2+	0.1−
1973 09 29	675	0.3+	1.0+	2000 03 27	699	1.1−	1.8+	2000 04 06	704	0.7+	0.3+
1973 09 30	675	0.5−	0.9+	2000 03 29	691	0.6−	0.6−				
1973 09 30	675	1.2−	0.4+	2000 03 29	691	0.4−	0.6−				

3286 T-2 = 2000 CP₃₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27342061	ω	243.69992	+0.77848694	-0.62580701		
<i>a</i>	2.3509779	Ω	154.95197	+0.60880340	+0.73418401		
<i>e</i>	0.1327433	<i>i</i>	6.53769	+0.15269743	+0.26332379		
<i>P</i>	3.60	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	0.3-	1.4+	2000 02 02	704	0.1-	1.2+	2000 03 04	704	1.2+	0.3-
1973 09 19	675	1.4-	0.4-	2000 02 02	704	0.1-	0.4-	2000 03 04	704	0.8+	0.5-
1973 09 20	675	0.4+	0.1-	2000 02 02	704	0.4+	0.5-	2000 03 05	704	0.2+	0.0
1973 09 24	675	0.5+	1.0+	2000 02 02	704	0.8+	0.0	2000 03 05	704	0.7-	0.9-
1973 09 24	675	0.4+	1.1+	2000 02 04	704	0.4-	0.4-	2000 03 05	704	0.6-	0.1+
1973 09 25	675	0.1+	1.2+	2000 02 04	704	0.6-	0.4+	2000 03 05	704	0.4-	0.1+
1973 09 25	675	0.1-	0.7+	2000 02 04	704	0.3-	0.1-	2000 03 05	704	0.9-	1.6+
1973 09 29	675	0.0	1.9-	2000 02 04	704	0.7+	0.5-	2000 03 06	704	0.2-	0.8+
1973 09 29	675	2.6-	2.4-	2000 02 04	704	1.1+	0.3-	2000 03 06	704	0.6-	1.0+
1973 09 30	675	2.9-	1.6-	2000 02 29	704	0.1+	0.9+	2000 03 06	704	0.1-	1.1+
1973 09 30	675	1.0-	1.6-	2000 02 29	704	0.5+	0.3+	2000 03 06	704	0.3+	0.5+
1973 10 04	675	0.7-	1.2+	2000 02 29	704	0.2+	1.2+	2000 03 14	691	0.0	0.6-
1973 10 04	675	0.8-	0.2+	2000 02 29	704	0.0	1.3-	2000 03 14	691	0.2+	0.9-
1973 10 05	675	0.7+	0.3-	2000 02 29	704	1.5-	1.8-	2000 03 14	691	0.2+	0.6-
1973 10 05	675	2.2-	1.2-	2000 03 04	704	0.6-	0.2+				

3333 T-2 = 1996 HL₂₄ = 2000 DL₄₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20351234	ω	193.61607	+0.86805566	+0.49524807		
<i>a</i>	2.8624784	Ω	136.64135	-0.45062619	+0.81536081		
<i>e</i>	0.0737827	<i>i</i>	2.90263	-0.20836367	+0.29986012		
<i>P</i>	4.84	<i>H</i>	14.1	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	1.3-	0.1-	1996 04 21	809	1.7+	0.2+	2000 03 09	704	0.1+	0.8-
1973 09 19	675	0.1-	0.9+	2000 02 29	704	0.7+	0.2-	2000 03 09	704	0.6-	0.0
1973 09 20	675	1.3+	1.2-	2000 02 29	704	0.6+	0.5+	2000 03 09	704	0.1-	0.0
1973 09 24	675	0.4+	0.1+	2000 02 29	704	0.2+	0.4-	2000 03 11	704	0.4-	0.3+
1973 09 24	675	0.2+	1.2-	2000 02 29	704	0.8+	0.5-	2000 03 11	704	0.1+	0.9-
1973 09 25	675	0.3+	2.3-	2000 02 29	704	1.6+	0.4+	2000 03 11	699	0.4-	0.9-
1973 09 25	675	0.9+	0.8-	2000 03 03	704	0.5+	0.6-	2000 03 11	704	0.4-	0.3+
1996 04 20	809	0.5-	1.2-	2000 03 03	704	0.2-	0.3+	2000 03 11	704	0.8-	1.2-
1996 04 20	809	2.1-	1.6-	2000 03 03	704	0.4-	0.4+	2000 03 11	699	0.5-	0.4-
1996 04 20	809	1.5-	1.7-	2000 03 03	704	0.5-	0.4+	2000 03 11	699	1.3-	0.5-
1996 04 21	809	0.1+	0.6+	2000 03 03	704	0.1+	0.4+	2000 03 11	699	0.3-	0.4-
1996 04 21	809	1.8+	1.8+	2000 03 09	704	0.2-	0.0				

3361 T-2 = 2000 EW₄₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20415163	ω	163.05796	-0.40155950	+0.91484278		
<i>a</i>	2.8564995	Ω	83.24968	-0.84515162	-0.35225933		
<i>e</i>	0.0447943	<i>i</i>	2.45717	-0.35280122	-0.19742353		
<i>P</i>	4.83	<i>H</i>	13.8	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	0.6+	1.3+	2000 03 02	703	0.6-	0.0	2000 03 11	699	0.1+	0.6+
1973 09 19	675	0.6-	0.4+	2000 03 02	703	1.2+	0.9-	2000 03 11	699	0.7+	1.0+
1973 09 20	675	0.1-	0.9-	2000 03 02	703	0.5-	0.2+	2000 03 11	699	0.3+	0.6+
1973 09 24	675	1.0-	0.1-	2000 03 05	704	0.8+	0.1+	2000 03 12	704	0.3-	0.3+
1973 09 24	675	1.0-	0.9-	2000 03 05	704	0.5+	0.1-	2000 03 12	704	0.4-	0.2+

1973 09 25	675	1.6+	0.1+	2000 03 05	704	0.0	0.1-	2000 03 12	704	0.1-	0.0
1973 09 25	675	(1.1+	3.8-)	2000 03 05	704	0.7+	0.3-	2000 03 12	704	0.6-	0.1+
2000 02 04	704	0.4+	0.3-	2000 03 05	704	0.1-	0.1-	2000 03 12	704	0.0	0.1+
2000 02 04	704	0.7+	1.1+	2000 03 06	120	0.9+	0.6+	2000 03 13	120	1.4-	1.6-
2000 02 04	704	0.4+	0.6+	2000 03 06	120	0.8-	0.0	2000 03 13	120	1.0-	0.9-
2000 02 04	704	0.6+	0.3-	2000 03 06	120	0.2-	0.5-	2000 03 13	120	0.9-	0.4-
2000 02 04	704	0.9+	1.4+	2000 03 09	608	(0.9+	2.4-)	2000 04 03	704	0.2+	0.8-
2000 02 11	704	0.0	0.3+	2000 03 09	608	0.4+	1.1-	2000 04 03	704	0.4+	0.7+
2000 02 11	704	0.6-	0.3+	2000 03 09	608	0.1+	0.9-	2000 04 03	704	1.2+	2.0+
2000 02 11	704	0.3-	0.3+	2000 03 10	120	1.0-	1.6-	2000 04 03	704	0.5+	1.8+
2000 02 11	704	0.3-	0.6-	2000 03 10	120	1.0-	1.3-	2000 04 03	704	(1.4+	2.1+)
2000 02 11	704	0.7-	1.1-	2000 03 10	120	0.8-	0.0				
2000 03 02	703	0.3+	0.2-	2000 03 11	699	0.5+	1.5+				

4137 T-2 = 2000 CZ₈₅

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20076433	ω	262.51837	+0.57143946	-0.81908200		
<i>a</i>	2.8885397	Ω	152.43855	+0.78946273	+0.53184109		
<i>e</i>	0.0673866	<i>i</i>	6.27986	+0.22406594	+0.21505749		
<i>P</i>	4.91	<i>H</i>	14.4	<i>G</i>	0.15	<i>U</i>	5

Residuals in seconds of arc

1973 09 19	675	1.5-	2.1-	2000 02 03	691	0.0	0.5-	2000 03 03	704	0.2-	0.2-
1973 09 19	675	1.0-	0.9-	2000 02 03	691	0.0	0.5-	2000 03 03	704	0.0	0.2+
1973 09 20	675	2.1-	0.6-	2000 02 04	704	0.7+	1.6+	2000 03 03	704	0.6+	0.0
1973 09 24	675	0.3+	0.4-	2000 02 04	704	0.1-	0.8-	2000 03 05	704	0.3-	0.3-
1973 09 24	675	1.5-	0.9+	2000 02 04	704	0.8+	0.0	2000 03 05	704	0.8+	0.6-
1973 09 25	675	0.8-	0.6+	2000 02 04	704	1.1-	0.1+	2000 03 05	704	0.7-	1.8-
1973 09 25	675	1.4-	0.3+	2000 02 11	704	0.4-	1.2+	2000 03 11	704	0.8+	0.4-
1973 09 29	675	(2.9-	0.4-)	2000 02 11	704	(0.5+	2.4+)	2000 03 11	704	0.1+	0.9+
1973 09 29	675	1.2+	0.1+	2000 02 11	704	(0.5-	3.5+)	2000 03 11	699	0.1+	0.4+
1973 09 30	675	1.3+	0.0	2000 02 29	704	0.2-	0.3+	2000 03 11	704	0.4+	0.0
1973 09 30	675	(2.6+	1.0-)	2000 02 29	704	0.3-	0.4+	2000 03 11	704	0.1+	0.2+
1973 10 04	675	(0.7+	3.0-)	2000 02 29	704	0.4+	0.4+	2000 03 11	699	0.2-	0.5+
1973 10 04	675	2.3+	0.4+	2000 02 29	704	0.2+	0.3-	2000 03 11	699	0.9-	0.0
1973 10 05	675	1.9+	0.4+	2000 02 29	704	0.5-	0.3-	2000 03 11	699	0.2-	0.4+
1973 10 05	675	0.2+	0.9+	2000 03 03	704	0.1+	0.6-				
2000 02 03	691	0.2-	0.5-	2000 03 03	704	0.1+	0.0				

4220 T-2 = 2000 EJ₅₄

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.20971167	ω	108.72262	+0.18903923	+0.98147591		
<i>a</i>	2.8057845	Ω	171.97978	-0.96388994	+0.19152115		
<i>e</i>	0.1645961	<i>i</i>	12.89317	-0.18756428	+0.00496975		
<i>P</i>	4.70	<i>H</i>	14.6	<i>G</i>	0.15	<i>U</i>	4

Residuals in seconds of arc

1973 09 19	675	1.0+	0.6-	1973 10 05	675	0.1-	0.1-	2000 04 04	704	0.6+	0.3-
1973 09 19	675	0.5+	0.3-	1973 10 05	675	1.7-	0.5-	2000 04 04	704	0.7+	0.8+
1973 09 20	675	0.2+	0.2-	2000 03 09	691	0.9+	0.2+	2000 04 04	704	0.1-	0.5+
1973 09 24	675	0.3-	0.7-	2000 03 09	691	0.3+	0.1-	2000 04 07	699	0.8-	0.2-
1973 09 24	675	0.3+	1.0-	2000 03 09	691	0.3+	0.1+	2000 04 07	699	0.8-	0.2-
1973 09 25	675	0.4-	0.7+	2000 03 10	691	0.0	0.1-	2000 04 07	699	1.1-	0.2+
1973 09 25	675	1.3-	1.3+	2000 03 10	691	0.2-	0.1-	2000 04 07	699	1.1-	0.1-
1973 09 29	675	1.2-	1.4-	2000 03 10	691	0.0	0.2-	2000 04 08	704	0.8-	0.8-
1973 09 29	675	0.8-	1.0+	2000 03 11	691	0.1-	0.3-	2000 04 08	704	0.0	0.4+
1973 09 30	675	1.9+	0.9+	2000 03 11	691	0.1+	0.2-	2000 04 08	704	0.0	0.2-
1973 09 30	675	2.2+	0.7+	2000 03 11	691	0.2+	0.3-	2000 04 08	704	0.6+	0.6+
1973 10 04	675	0.4-	0.1+	2000 04 04	704	1.4+	0.6+				
1973 10 04	675	(2.8+	0.6+)	2000 04 04	704	0.2+	0.4-				

2000 APR. 18

M.P.C. 40283

5119 T-2 = 2000 CE₂₄

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	198.50740		(2000.0)	P		Q		
<i>n</i>	0.27710696	ω	354.45935	+0.61880212	+0.78102256			
<i>a</i>	2.3300814	Ω	313.73471	-0.71617635	+0.51687304			
<i>e</i>	0.1335292	<i>i</i>	6.69107	-0.32276210	+0.35049398			
<i>P</i>	3.56	<i>H</i>	15.0	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1973 09 19	675	(7.2+ 2.7-)	1973 10 05	675	0.4+ 0.2+	2000 02 29	704	0.6+ 0.3-
1973 09 20	675	(3.3+ 3.2-)	1973 10 05	675	0.4+ 0.7-	2000 02 29	704	1.3- 0.5+
1973 09 20	675	(4.2+ 4.2-)	2000 02 02	704	0.0 0.2+	2000 02 29	704	0.4- 0.8+
1973 09 24	675	0.4- 0.1-	2000 02 02	704	0.1- 0.3-	2000 02 29	704	0.2+ 1.3+
1973 09 24	675	0.4- 0.4+	2000 02 02	704	0.0 1.2-	2000 02 29	704	0.7+ 0.0
1973 09 25	675	1.2+ 0.7-	2000 02 02	704	0.3+ 1.0-	2000 03 03	691	0.2+ 0.3-
1973 09 25	675	1.8+ 0.4-	2000 02 04	704	0.1+ 0.8+	2000 03 03	691	0.5+ 0.5-
1973 09 29	675	0.3+ 1.8+	2000 02 04	704	0.7- 0.4+	2000 03 03	691	0.3+ 0.2-
1973 09 29	675	0.5- 0.6+	2000 02 04	704	0.2+ 0.4-	2000 03 05	704	0.8- 0.6-
1973 09 30	675	0.0 0.5-	2000 02 04	704	0.0 1.2+	2000 03 05	704	0.5+ 0.1+
1973 09 30	675	0.1- 0.3-	2000 02 27	691	0.4- 0.0	2000 03 05	704	0.3+ 0.4+
1973 10 04	675	1.2- 0.4+	2000 02 27	691	0.5- 0.3-	2000 03 05	704	1.0+ 0.5-
1973 10 04	675	1.4- 0.7-	2000 02 27	691	0.5- 0.2-			

1209 T-3 = 2000 BT₁₉

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	97.36403		(2000.0)	P		Q		
<i>n</i>	0.27680526	ω	81.14904	+0.88822794	-0.45166490			
<i>a</i>	2.3317742	Ω	305.65854	+0.37033436	+0.81211139			
<i>e</i>	0.1351838	<i>i</i>	5.93151	+0.27185213	+0.36942374			
<i>P</i>	3.56	<i>H</i>	16.3	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1977 10 16	675	1.9- 0.6+	2000 01 26	691	0.4- 0.4+	2000 02 03	704	1.1+ 0.0
1977 10 16	675	1.2- 0.3-	2000 01 26	691	0.5- 0.3+	2000 02 03	704	0.4+ 0.8+
1977 10 17	675	1.9+ 0.2+	2000 01 26	691	0.5- 0.4+	2000 02 03	704	0.2- 0.1+
1977 10 17	675	0.4+ 0.1-	2000 02 01	691	0.3- 0.2-	2000 02 03	704	0.7+ 1.4-
1977 10 22	675	0.5- 1.4-	2000 02 01	691	0.2- 0.2-			
1977 10 22	675	1.3+ 1.0+	2000 02 01	691	0.0 0.2-			

1219 T-3 = 2000 BK₂₃

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	265.36773		(2000.0)	P		Q		
<i>n</i>	0.28393646	ω	283.78833	-0.22026799	+0.97443037			
<i>a</i>	2.2925665	Ω	333.36140	-0.85237838	-0.21438953			
<i>e</i>	0.1745627	<i>i</i>	5.67753	-0.47427113	-0.06725018			
<i>P</i>	3.47	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	4	

Residuals in seconds of arc

1977 10 16	675	2.3- 1.8-	2000 01 30	376	0.3+ 0.5+	2000 02 11	704	0.1+ 0.1+
1977 10 16	675	1.1+ 0.6-	2000 02 02	376	0.3+ 0.5-	2000 02 11	704	0.2- 1.5+
1977 10 16	675	0.1+ 1.4+	2000 02 03	704	0.8- 0.1+	2000 02 11	704	0.4- 0.4+
1977 10 16	675	1.2+ 1.3-	2000 02 03	704	0.5+ 1.8+	2000 02 11	376	0.3+ 0.6-
1977 10 17	675	1.1- 1.1+	2000 02 03	704	0.7- 0.2-	2000 02 11	376	0.3+ 0.5-
1977 10 17	675	0.2- 0.4+	2000 02 03	704	0.4- 0.9-	2000 02 26	703	0.4+ 0.9+
1977 10 17	675	1.6- 0.5+	2000 02 03	704	0.4- 0.2-	2000 02 26	703	0.1- 0.9-
1977 10 17	675	0.3- 1.5+	2000 02 04	376	0.3+ 0.0	2000 02 26	703	0.6- 0.5+
1977 10 21	675	1.6+ 0.9+	2000 02 04	376	0.6- 0.6-	2000 02 26	703	0.7- 0.3-
1977 10 21	675	2.1+ 1.2-	2000 02 04	120	0.3+ 0.1-	2000 02 29	704	0.4+ 0.1-
1977 10 22	675	0.0 0.4+	2000 02 04	120	0.6- 0.3+	2000 02 29	704	0.3+ 0.5+
1977 10 22	675	(0.8+ 2.7-)	2000 02 05	120	1.5- 0.2-	2000 02 29	704	(2.3+ 0.9+)
1977 10 22	675	(3.0+ 0.7+)	2000 02 06	120	0.2+ 0.3-	2000 02 29	704	0.2- 0.5+

1977 10 22	675	0.6- 1.5-	2000 02 09	376	0.4+ 0.7-	2000 02 29	704	0.3+ 0.1-
2000 01 04	704	0.5+ 0.5-	2000 02 09	376	1.2+ 1.8-	2000 03 05	704	0.3- 0.3-
2000 01 04	704	(1.7+ 2.1-)	2000 02 09	120	0.2- 0.2-	2000 03 05	704	0.1- 0.3-
2000 01 04	704	1.4+ 1.3-	2000 02 09	120	0.2+ 0.7-	2000 03 05	704	0.1- 0.3+
2000 01 30	704	0.4+ 1.7+	2000 02 09	120	1.0- 0.5-	2000 03 05	704	0.4- 0.4-
2000 01 30	704	0.5+ 0.5+	2000 02 09	120	0.3- 0.8-	2000 03 26	699	0.2- 0.2-
2000 01 30	704	0.8+ 0.9+	2000 02 10	120	0.3- 0.2-	2000 03 26	699	0.5+ 0.1+
2000 01 30	704	0.0 1.8+	2000 02 10	120	0.9- 0.1-	2000 03 26	699	0.4- 0.3+
2000 01 30	376	0.6+ 0.3+	2000 02 11	704	0.8+ 0.6+	2000 03 26	699	0.8+ 0.5-

2254 T-3 = 2000 EP₂₁

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	128.42537		(2000.0)	P		Q		
<i>n</i>	0.36942985	ω	14.28980	+0.85616090	-0.50471841			
<i>a</i>	1.9235998	Ω	17.39836	+0.43026450	+0.57778437			
<i>e</i>	0.0630701	<i>i</i>	21.72283	+0.28611356	+0.64142385			
<i>P</i>	2.67	<i>H</i>	15.5	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1977 10 07	675	2.1- 1.5-	1993 10 09	809	1.2+ 0.1+	2000 03 09	704	0.3- 0.2-
1977 10 11	675	0.6+ 0.7-	1993 10 09	809	1.1+ 0.3-	2000 03 09	704	0.6+ 0.3-
1977 10 11	675	0.6- 2.1+	1993 10 09	809	1.4+ 1.0-	2000 03 12	704	0.4+ 0.8+
1977 10 11	675	1.4- 1.1+	1993 10 10	809	0.1+ 0.9-	2000 03 12	704	0.4- 0.2-
1977 10 11	675	0.3- 1.7+	1993 10 10	809	0.6- 1.3-	2000 03 12	704	0.0 0.1+
1977 10 12	675	1.5- 0.2-	1993 10 10	809	(3.2- 0.1-)	2000 03 12	704	0.8+ 0.1-
1977 10 12	675	0.4- 1.3+	2000 02 03	704	0.2- 0.5-	2000 03 12	704	0.5- 0.2-
1977 10 12	675	0.4- 1.1-	2000 02 03	704	0.2+ 0.3+	2000 04 04	704	0.4- 0.0
1977 10 12	675	0.8- 1.5+	2000 02 03	704	0.2- 0.2+	2000 04 04	704	0.9- 0.0
1977 10 16	675	0.2- 1.6-	2000 03 04	704	0.0 0.3-	2000 04 04	704	0.7+ 0.1+
1977 10 16	675	0.2+ 1.2-	2000 03 04	704	0.0 0.2+	2000 04 08	704	0.4- 0.3+
1977 10 17	675	1.3- 0.9+	2000 03 04	704	0.1+ 0.2+	2000 04 08	704	0.6+ 0.9+
1977 10 17	675	0.2+ 0.4+	2000 03 04	704	0.1- 0.0	2000 04 08	704	0.6- 1.1+
1977 10 21	675	2.0+ 0.5-	2000 03 04	704	0.2+ 0.3+	2000 04 08	704	0.3+ 0.3+
1977 10 21	675	(2.2+ 3.2-)	2000 03 09	704	0.2+ 0.1+	2000 04 09	608	0.1+ 0.8-
1977 10 22	675	1.7+ 1.5+	2000 03 09	704	0.2+ 0.8-	2000 04 09	608	0.1- 0.8-
1977 10 22	675	1.3+ 0.2-	2000 03 09	704	0.2- 0.1+	2000 04 09	608	0.4- 0.7-

2465 T-3 = 2000 CX₅₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	68.72485		(2000.0)	P		Q		
<i>n</i>	0.27776186	ω	137.69780	+0.28787222	-0.95709421			
<i>a</i>	2.3264174	Ω	295.54702	+0.86850804	+0.27550811			
<i>e</i>	0.1251621	<i>i</i>	2.10692	+0.40351377	+0.08981063			
<i>P</i>	3.55	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	3	

Residuals in seconds of arc

1977 10 16	675	1.8+	0.5-	2000 02 02	704	0.6+	1.6+	2000 03 09	704	0.1-	0.1+
1977 10 16	675	0.1+	1.8-	2000 02 06	704	0.9-	0.1-	2000 03 09	704	0.1+	0.4+
1977 10 17	675	2.1-	1.2+	2000 02 06	704	0.3+	0.3+	2000 03 09	704	0.3+	0.1+
1977 10 17	675	1.7-	0.6+	2000 02 06	704	1.1+	1.4+	2000 03 09	704	0.4+	0.6+
1977 10 21	675	0.6+	0.2-	2000 02 06	704	1.1+	0.2+	2000 03 11	704	0.2-	0.5+
1977 10 21	675	1.1+	0.5+	2000 02 29	704	0.3-	0.1-	2000 03 11	704	0.4+	0.0
1977 10 22	675	0.1-	0.5-	2000 02 29	704	0.2-	0.6-	2000 03 11	704	0.3-	0.3+
1977 10 22	675	0.5+	0.1+	2000 02 29	704	0.1+	0.7-	2000 03 11	704	0.5-	0.4+
1998 08 23	704	1.5-	1.1+	2000 02 29	704	0.1-	1.1-	2000 03 11	704	0.5+	0.6+
1998 08 23	704	0.2-	0.0	2000 03 03	704	0.3-	0.5-	2000 03 27	699	0.9+	1.6-
1998 08 23	704	0.6-	1.9+	2000 03 03	704	0.4-	0.2-	2000 03 27	699	0.3+	0.3+
1998 08 23	704	0.5+	1.0+	2000 03 03	704	0.3-	0.2+	2000 03 27	699	0.8+	0.7-
2000 02 02	704	0.6-	0.6+	2000 03 03	704	0.1+	0.8+	2000 03 27	699	0.7-	0.6-
2000 02 02	704	0.2-	0.4+	2000 03 03	704	0.0	0.5+				
2000 02 02	704	0.1-	0.6+	2000 03 09	704	0.2-	0.2-				

2666 T-3 = 2000 EE₄₂

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	203.32280		(2000.0)	P		Q		
<i>n</i>	0.28450326	ω	343.27587	+0.90865139		+0.41752410		
<i>a</i>	2.2895206	Ω	352.04002	-0.37873822		+0.81894938		
<i>e</i>	0.0651613	<i>i</i>	2.12124	-0.17581242		+0.39369473		
<i>P</i>	3.46	<i>H</i>	15.3	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1977 10 07	675	0.2+	0.3-	2000 03 08	704	1.5+	0.2-	2000 04 04	704	0.4-	0.8+
1977 10 07	675	(4.1+	0.9-)	2000 03 10	704	0.4-	0.5+	2000 04 04	704	0.6+	0.6-
1977 10 11	675	0.3+	0.8-	2000 03 10	704	0.2+	0.6-	2000 04 04	704	1.6-	0.9+
1977 10 11	675	0.2-	0.3+	2000 03 10	704	0.2+	0.0	2000 04 05	704	0.2+	0.1-
1977 10 11	675	0.4+	0.7-	2000 03 10	704	0.3-	0.3-	2000 04 05	704	0.3-	0.3-
1977 10 11	675	1.2+	0.7+	2000 03 10	704	1.2-	0.1+	2000 04 05	704	0.1+	0.6-
1977 10 12	675	1.3-	0.6+	2000 03 11	704	0.9-	1.3+	2000 04 05	704	0.0	0.0
1977 10 12	675	0.4-	0.8+	2000 03 11	704	0.6+	0.5+	2000 04 05	704	0.5-	0.0
1977 10 12	675	0.8-	0.4-	2000 03 11	704	0.4+	0.2+	2000 04 06	704	0.4-	0.3-
1977 10 12	675	0.8+	0.1-	2000 03 11	704	0.0	0.7+	2000 04 06	704	0.2+	0.2-
2000 02 26	691	0.2-	0.8-	2000 03 11	704	0.1+	0.3+	2000 04 06	704	0.4-	0.4+
2000 02 26	691	0.3-	0.6-	2000 03 26	699	0.0	0.1-	2000 04 06	704	0.5-	0.3+
2000 02 26	691	0.2-	0.5-	2000 03 26	699	0.7+	0.6-	2000 04 07	699	1.5+	0.7-
2000 03 08	704	0.4-	0.3+	2000 03 26	699	0.3-	0.8-	2000 04 07	699	0.6-	1.2+
2000 03 08	704	0.0	0.0	2000 03 26	699	0.1-	0.5-	2000 04 07	699	0.1+	0.0
2000 03 08	704	1.1+	0.9+	2000 04 04	704	1.0+	0.3+	2000 04 07	699	0.5+	0.9-

3160 T-3

Id. E. Bowell (2000 observations)

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	108.55317		(2000.0)	P		Q		
<i>n</i>	0.23794603	ω	293.78272	+0.43328373		-0.90075575		
<i>a</i>	2.5791924	Ω	130.50653	+0.84061700		+0.39187320		
<i>e</i>	0.0968164	<i>i</i>	2.26667	+0.32500502		+0.18728184		
<i>P</i>	4.14	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1977 10 07	675	1.4+	0.0	1977 10 21	675	1.0-	0.1+	2000 04 06	699	0.0	0.8+
1977 10 11	675	0.4-	0.3+	1977 10 22	675	2.3-	1.5+	2000 04 06	704	0.1+	0.0
1977 10 11	675	1.4+	1.2+	1977 10 22	675	(2.2-	3.9-)	2000 04 06	699	0.2+	1.0+
1977 10 12	675	0.7-	0.1+	2000 03 27	699	0.9-	0.8-	2000 04 06	704	1.7+	2.2-
1977 10 12	675	0.8+	1.0-	2000 03 27	699	0.5-	0.2-	2000 04 06	704	0.1+	0.2-
1977 10 16	675	1.2+	0.0	2000 03 27	699	0.3-	1.3+	2000 04 06	699	0.0	0.6-
1977 10 16	675	0.1+	0.9-	2000 03 27	699	0.5-	0.5+	2000 04 10	704	1.1+	0.0
1977 10 17	675	2.1+	0.2-	2000 04 06	704	0.9-	0.4-	2000 04 10	704	0.4+	0.7+
1977 10 17	675	0.7-	0.7-	2000 04 06	699	0.2-	0.2-	2000 04 10	704	0.4-	0.4-
1977 10 21	675	1.7-	0.8-	2000 04 06	704	0.0	0.1+				

3300 T-3 = 2000 GZ₁₉

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	101.53363		(2000.0)	P		Q		
<i>n</i>	0.19515982	ω	95.99351	+0.18415811		-0.98287747		
<i>a</i>	2.9435795	Ω	343.39061	+0.89308196		+0.16993498		
<i>e</i>	0.0494954	<i>i</i>	1.23046	+0.41047582		+0.07123194		
<i>P</i>	5.05	<i>H</i>	14.9	<i>G</i>	0.15	<i>U</i>	5	

Residuals in seconds of arc

1977 10 07	675	1.3+	0.4+	1977 10 17	675	1.2-	1.2-	2000 04 05	704	0.3+	0.3+
1977 10 07	675	0.1-	0.0	1977 10 17	675	0.2+	0.0	2000 04 05	704	0.8+	0.5+
1977 10 11	675	1.0-	0.6+	1977 10 21	675	1.0-	1.7+	2000 04 05	704	0.4+	0.3-
1977 10 11	675	(2.7-	1.7+)	1977 10 21	675	(2.9+	1.1-)	2000 04 05	704	0.5+	0.0
1977 10 11	675	0.2+	0.5-	1977 10 21	675	0.1+	0.1-	2000 04 05	704	0.5+	0.2+
1977 10 11	675	(2.5-	0.6+)	1977 10 21	675	2.2+	1.6+	2000 04 06	704	0.2+	0.8-

1977 10 12	675	1.3+	1.3-	2000 03 10	704	0.1+	1.1-	2000 04 06	704	0.6+	0.2-
1977 10 12	675	0.5-	0.7-	2000 03 10	704	0.0	0.2-	2000 04 06	704	0.6-	0.6+
1977 10 12	675	2.5+	0.8-	2000 03 10	704	0.0	0.2-	2000 04 06	704	0.3-	0.3-
1977 10 12	675	1.3-	1.3+	2000 04 02	699	0.3-	0.1-	2000 04 06	704	0.2+	0.3+
1977 10 16	675	(1.5+	3.0-)	2000 04 02	699	1.6+	0.3+	2000 04 10	691	0.0	0.1+
1977 10 16	675	0.6-	0.6-	2000 04 02	699	0.3-	0.3+	2000 04 10	691	0.1-	0.5+
1977 10 16	675	(1.1+	3.4-)	2000 04 02	699	1.5+	0.5+	2000 04 10	691	0.2+	0.4-
1977 10 16	675	0.1-	1.6-	2000 04 05	691	0.5-	0.1-	2000 04 11	691	0.8-	0.5-
1977 10 17	675	1.8-	1.5+	2000 04 05	691	0.8-	0.1-	2000 04 11	691	0.8-	0.5-
1977 10 17	675	0.1-	0.2-	2000 04 05	691	0.5-	0.1-	2000 04 11	691	1.9-	1.3+

3403 T-3 = 1998 XA₅₄ = 2000 GV₉₂

Id. G. V. Williams, E. Bowell

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	213.65781		(2000.0)	P		Q		
<i>n</i>	0.24186371	ω	304.65655	+0.85162871		+0.51767704		
<i>a</i>	2.5512651	Ω	24.47915	-0.39223601		+0.73332728		
<i>e</i>	0.1568718	<i>i</i>	11.42679	-0.34767724		+0.44072847		
<i>P</i>	4.08	<i>H</i>	14.0	<i>G</i>	0.15	<i>U</i>	2	

Residuals in seconds of arc

1977 10 07	675	0.2-	0.4+	1998 12 14	704	0.2+	0.3-	2000 03 26	699	0.1-	0.4-
1977 10 11	675	2.2-	1.3+	1998 12 17	704	0.3+	0.1-	2000 03 26	699	0.2-	0.3-
1977 10 11	675	1.6-	1.4+	1998 12 17	704	1.7-	0.7-	2000 03 26	699	0.3-	0.3+
1977 10 12	675	2.5+	1.3-	1998 12 17	704	0.3-	1.5-	2000 04 05	704	0.9+	0.2+
1977 10 12	675	0.8+	0.6-	1998 12 17	704	1.4-	0.8+	2000 04 05	704	0.4-	0.4-
1977 10 16	675	0.2+	1.0-	1999 01 16	704	0.5-	0.8+	2000 04 05	704	0.3+	0.0
1977 10 16	675	0.3+	0.3-	1999 01 16	704	0.0	1.4+	2000 04 05	704	0.7-	0.3+
1977 10 17	675	0.0	0.2-	1999 01 16	704	1.9+	1.1+	2000 04 07	699	1.0-	0.2+
1977 10 17	675	0.0	0.2-	1999 01 16	704	(3.1+	0.1-)	2000 04 07	699	0.0	0.6-
1977 10 21	675	0.3+	0.6-	1999 01 16	704	0.0	0.9-	2000 04 07	699	0.2-	0.4-
1977 10 21	675	0.2-	1.1-	2000 03 12	703	0.4+	0.8-	2000 04 07	699	0.6-	0.1+
1977 10 22	675	2.3+	1.4-	2000 03 12	703	0.3-	0.5-	2000 04 08	704	0.5-	0.0
1977 10 22	675	(4.0+	0.1-)	2000 03 12	703	0.7+	0.1+	2000 04 08	704	0.5+	0.2-
1992 03 30	691	0.7-	1.3-	2000 03 12	703	0.0	0.2+	2000 04 08	704	0.4+	0.8+
1992 03 30	691	0.8-	1.0-	2000 03 12	704	0.6+	0.3-	2000 04 08	704	0.7-	0.4+
1992 03 30	691	0.9-	1.0-	2000 03 12	704	0.8+	0.5+	2000 04 08	704	0.0	0.1-
1998 12 14	704	0.7+	0.6+	2000 03 12	704	0.3+	0.5+	2000 04 10	704	0.5-	0.1+
1998 12 14	704	0.5-	0.2+	2000 03 12	704	0.2+	0.1+	2000 04 10	704	0.1+	0.1-
1998 12 14	704	1.1+	0.1-	2000 03 26	699	0.2-	0.3+	2000 04 10	704	0.1+	0.7-

3497 T-3 = 2000 GG₇₁

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

			Williams					
<i>M</i>	167.28307		(2000.0)	P		Q		
<i>n</i>	0.24224861	ω	222.82175	+0.83949516		-0.54331293		
<i>a</i>	2.5485619	Ω	170.07914	+0.50980348		+0.78267187		
<i>e</i>	0.0562687	<i>i</i>	2.55418	+0.18801142		+0.30370349		
<i>P</i>	4.07	<i>H</i>	15.1	<i>G</i>	0.15	<i>U</i>	6	

Residuals in seconds of arc

1977 10 07	675	0.3-	1.3-	1977 10 17	675	0.4-	0.7-	2000 04 05	704	0.9+	0.7+
1977 10 11	675	0.1+	1.1+	1977 10 17	675	0.3-	0.9-	2000 04 06	704	1.3-	0.3-
1977 10 11	675	0.2-	0.5+	1977 10 21	675	0.8+	1.3+	2000 04 06	704	1.8-	0.2-
1977 10 12	675	1.2-	0.2-	1977 10 21	675	0.5-	0.6-	2000 04 06	704	0.0	0.4+
1977 10 12	675	0.8-	0.7-	2000 04 05	704	0.6+	0.9-	2000 04 06	704	0.2-	0.0
1977 10 16	675	0.5-	0.3+	2000 04 05	704	1.4+	0.2+	2000 04 06	704	0.3+	0.3+
1977 10 16	675	0.9-	0.3-	2000 04 05	704	0.0	0.1-				

2000 APR. 18

M.P.C. 40285

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	6.73145	(2000.0)	P	Q
<i>n</i>	0.28199142	ω	314.51509	-0.93634505
<i>a</i>	2.3030964	Ω	205.21912	+0.34478953
<i>e</i>	0.0439927	<i>i</i>	6.15404	+0.06616741
<i>P</i>	3.50	<i>H</i>	15.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1977 10 07	675	0.5-	2.3-	2000 02 08	704	0.0	0.3-	2000 03 13	704	0.4+	0.3-
1977 10 07	675	0.9-	2.4-	2000 02 08	704	0.5+	1.4-	2000 03 30	703	0.2-	0.9-
1977 10 11	675	1.1+	0.7+	2000 02 08	704	1.2+	0.0	2000 03 30	703	0.9-	0.3-
1977 10 11	675	1.6+	1.2+	2000 02 08	704	1.1+	0.2-	2000 03 30	703	0.6-	0.1-
1977 10 12	675	0.6+	0.6+	2000 03 01	703	1.2-	0.4-	2000 03 30	703	0.6-	0.2+
1977 10 12	675	0.5+	0.3-	2000 03 01	703	0.8-	0.5-	2000 04 02	699	1.3-	0.0
1977 10 16	675	0.4+	0.9-	2000 03 01	703	0.2-	0.0	2000 04 02	699	0.5-	0.3+
1977 10 16	675	0.3+	1.2-	2000 03 01	703	0.2-	0.2-	2000 04 02	699	0.0	0.6-
1977 10 17	675	1.5-	1.5-	2000 03 08	704	0.0	0.3+	2000 04 02	699	0.1+	0.3-
1977 10 17	675	(2.7-	3.2-)	2000 03 08	704	0.7+	0.4+	2000 04 04	704	1.4+	0.1+
1977 10 21	675	0.2-	1.1+	2000 03 08	704	0.0	0.8+	2000 04 04	704	0.9+	0.2+
1977 10 21	675	0.6-	2.0+	2000 03 08	704	0.1-	0.3+	2000 04 04	704	0.2+	1.3+
1998 10 17	699	0.8-	1.1+	2000 03 08	704	0.5-	0.2+	2000 04 04	704	1.4+	1.3+
1998 10 17	699	0.0	1.5+	2000 03 13	704	0.5+	0.1+				
1998 10 17	699	0.0	0.6+	2000 03 13	704	0.6-	0.5-				

4241 T-3 = 2000 AX₁₆₂

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	358.67688	(2000.0)	P	Q
<i>n</i>	0.27141146	ω	358.37936	-0.16923745
<i>a</i>	2.3625659	Ω	101.35593	+0.90537677
<i>e</i>	0.1913563	<i>i</i>	5.77962	+0.38942468
<i>P</i>	3.63	<i>H</i>	15.5	<i>G</i> 0.15 <i>U</i> 4

Residuals in seconds of arc

1977 10 11	675	0.3+	0.6+	1977 10 22	675	0.5+	1.0-	1999 12 14	704	0.3+	0.7+
1977 10 11	675	1.5-	0.5-	1977 10 22	675	0.2-	0.6-	1999 12 14	704	0.2-	0.8+
1977 10 11	675	(0.4+	3.3+)	1999 11 04	704	0.4-	1.0+	1999 12 30	699	0.4+	0.1+
1977 10 12	675	1.9-	0.4+	1999 11 04	704	0.3-	0.3+	1999 12 30	699	0.2+	0.3+
1977 10 12	675	1.7+	0.9+	1999 11 04	704	0.2-	0.6+	1999 12 30	699	0.4+	0.4+
1977 10 12	675	1.3-	0.1+	1999 11 04	704	0.5+	0.7-	2000 01 05	704	0.4-	0.8-
1977 10 12	675	1.0+	1.4+	1999 11 04	704	0.2+	0.1-	2000 01 05	704	0.3-	0.4-
1977 10 16	675	1.1-	0.5-	1999 12 06	704	0.1+	0.1-	2000 01 05	704	0.5-	0.6-
1977 10 16	675	0.7+	0.1+	1999 12 06	704	0.2+	0.8+	2000 01 05	704	0.1+	1.3-
1977 10 16	675	1.0-	1.7+	1999 12 06	704	0.6+	0.4+	2000 01 05	704	0.0	0.8-
1977 10 16	675	0.3+	0.9-	1999 12 06	704	0.4-	0.4-	2000 01 06	704	1.2-	0.3-
1977 10 17	675	0.2-	0.5+	1999 12 06	704	0.3-	0.3+	2000 01 06	704	0.4+	1.0-
1977 10 17	675	0.4+	0.0	1999 12 13	699	0.0	0.8+	2000 01 06	704	1.5-	0.9-
1977 10 21	675	0.3+	0.7-	1999 12 13	699	(1.5+	2.6+)	2000 01 06	704	(1.3+	2.2-)
1977 10 21	675	0.3-	1.0-	1999 12 13	699	0.0	1.1+	2000 01 06	704	0.5+	1.5-
1977 10 21	675	1.1+	0.9+	1999 12 14	704	0.5-	0.3+	2000 02 03	704	(2.8+	0.7+)
1977 10 21	675	2.3+	2.0-	1999 12 14	704	0.1-	0.4+	2000 02 03	704	2.0+	1.6+
1977 10 22	675	0.8-	0.8-	1999 12 14	704	0.3+	0.3-	2000 02 03	704	(1.8+	2.8+)

4352 T-3 = 1999 XA₁₂₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	117.16098	(2000.0)	P	Q
<i>n</i>	0.22769076	ω	276.42935	+0.78010206
<i>a</i>	2.6560675	Ω	45.70098	-0.49114182
<i>e</i>	0.0301625	<i>i</i>	9.27943	-0.38758288
<i>P</i>	4.33	<i>H</i>	14.7	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1977 10 16	675	1.3-	0.7+	1999 11 03	704	0.6+	0.2-	1999 11 16	704	0.3-	0.4-
1977 10 16	675	0.1+	0.7+	1999 11 09	703	0.4-	0.4+	1999 11 16	704	0.1+	0.0

1977 10 17	675	0.7+	1.0-	1999 11 09	703	1.8+	1.0+	1999 11 16	704	0.4+	0.6+
1977 10 17	675	0.5+	0.2+	1999 11 09	703	0.2-	0.1+	1999 12 05	703	0.5-	0.2-
1977 10 21	675	0.4+	1.3-	1999 11 09	703	0.2-	0.8-	1999 12 05	703	0.6+	0.6+
1977 10 21	675	0.6-	1.2-	1999 11 14	704	0.1-	0.2-	1999 12 05	703	0.5-	0.1-
1977 10 22	675	0.9-	0.1-	1999 11 14	704	0.0	0.1-	1999 12 05	703	0.3+	0.2-
1977 10 22	675	1.1+	2.1+	1999 11 14	704	0.0	0.1-	1999 12 13	703	0.8-	0.6+
1999 11 03	704	0.9+	0.1+	1999 11 14	704	0.3+	0.4-	1999 12 13	703	0.4-	0.3+
1999 11 03	704	0.6+	0.3-	1999 11 14	704	1.3+	0.9-	1999 12 13	703	0.9-	1.1-
1999 11 03	704	1.4-	0.2-	1999 11 16	704	0.6-	1.4+	1999 12 13	703	0.0	0.3-
1999 11 03	704	0.1+	0.5+	1999 11 16	704	0.6-	0.4-				

4356 T-3 = 2000 DO₄₅

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	104.41932	(2000.0)	P	Q
<i>n</i>	0.19095023	ω	238.21185	+0.73143192
<i>a</i>	2.9866839	Ω	164.41925	+0.67254184
<i>e</i>	0.0980330	<i>i</i>	11.13462	+0.11267127
<i>P</i>	5.16	<i>H</i>	13.7	<i>G</i> 0.15 <i>U</i> 5

Residuals in seconds of arc

1977 10 12	675	1.7-	0.7-	2000 02 06	704	0.6-	1.2+	2000 03 03	704	0.1+	0.3+
1977 10 12	675	1.1-	1.3-	2000 02 06	704	0.3+	0.3-	2000 03 04	691	0.7-	0.8-
1977 10 16	675	1.0-	0.9+	2000 02 06	704	1.4+	0.3+	2000 03 04	691	0.6-	0.8-
1977 10 16	675	2.3+	0.6+	2000 02 28	691	1.1-	0.6-	2000 03 04	691	0.9-	0.8-
1977 10 16	675	0.6-	0.5+	2000 02 28	691	0.6-	0.6-	2000 03 11	704	0.2-	0.1+
1977 10 16	675	(3.0+	1.2-)	2000 02 28	691	0.4-	1.0-	2000 03 11	704	0.3-	0.8+
1977 10 17	675	1.1-	0.6+	2000 02 29	704	0.8+	0.6+	2000 03 11	704	1.1+	0.2-
1977 10 17	675	1.0+	1.1-	2000 02 29	704	0.1+	0.5-	2000 03 11	699	0.1+	0.3+
1977 10 17	675	0.9-	0.9+	2000 02 29	704	0.5+	0.3-	2000 03 11	704	0.3-	1.4+
1977 10 17	675	1.2+	0.6-	2000 02 29	704	0.5+	0.2-	2000 03 11	704	0.7+	1.1+
1977 10 21	675	(2.8+	0.5-)	2000 02 29	704	0.5+	0.7-	2000 03 11	699	0.2+	0.2-
1977 10 21	675	0.8+	1.6-	2000 03 03	704	0.5-	0.4-	2000 03 11	699	0.4+	0.2-
1977 10 21	675	0.6-	0.8+	2000 03 03	704	0.4+	0.0	2000 03 11	699	0.9-	0.1-
1977 10 21	675	1.6+	0.8+	2000 03 03	704	0.1+	0.5+				
1977 10 22	675	0.1+	0.2+	2000 03 03	704	0.1-	1.0+				

5014 T-3 = 2000 CM₈₈

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	99.67553	(2000.0)	P	Q
<i>n</i>	0.28049578	ω	302.35558	+0.56896954
<i>a</i>	2.3112761	Ω	112.60087	+0.78800762
<i>e</i>	0.0588991	<i>i</i>	6.63892	+0.23519703
<i>P</i>	3.51	<i>H</i>	14.2	<i>G</i> 0.15 <i>U</i> 3

Residuals in seconds of arc

1977 10 11	675	1.3+	1.6-	2000 02 04	704	0.9+	0.1+	2000 03 09	704	0.0	0.6-
1977 10 11	675	1.8+	0.3-	2000 02 04	704	0.7+	1.0+	2000 03 09	704	0.1-	0.2+
1977 10 12	675	1.2+	1.4-	2000 02 11	704	0.2-	0.1+	2000 03 09	704	0.1+	0.5-
1977 10 12	675	0.0	1.1-	2000 02 11	704	0.3+	0.3+	2000 03 09	704	0.3-	0.2+
1977 10 16	675	0.6-	0.1-	2000 02 11	704	0.3+	0.2-	2000 03 09	704	0.2-	0.7-
1977 10 16	675	1.2-	0.1+	2000 02 11	704	0.6+	0.5-	2000 03 09	704	0.3-	0.0
1977 10 17	675	1.1-	0.8-	2000 02 11	704	0.9+	0.4-	2000 03 12	704	0.9-	0.3+
1977 10 17	675	1.5-	1.1-	2000 02 29	704	0.4-	0.3+	2000 03 12	704	0.3-	0.2+
1977 10 21	675	0.7+	1.9+	2000 02 29	704	0.1+	0.5+	2000 03 12	704	0.1+	0.1+
1977 10 21	675	0.8+	1.2+	2000 02 29	704	0.2-	0.5+	2000 03 12	704	0.8-	0.0
1998 08 28	704	(2.3+	1.9+)	2000 02 29	704	0.0	0.1+	2000 03 26	699	0.0	0.4-
1998 08 28	704	0.1+	1.2+	2000 02 29	704	0.3-	0.1+	2000 03 26	699	0.2-	0.1-
1998 08 28	704	(2.0-	0.5+)	2000 03 02	703	(1.8-	2.1+)	2000 03 26	699	0.2+	0.0
1998 08 28	704	0.5+	0.3-	2000 03 02	703	1.6-	0.4-	2000 03 26	699	0.3-	0.1-
1998 08 28	704	1.7-	1.0-	2000 03 02	703	0.1-	0.5+	2000 03 28	704	0.3-	0.1+
1998 09 17	699	0.0	1.0+	2000 03 02	703	0.0	0.3+	2000 03 28	704	0.3-	0.8-
1998 09 17	699	0.0	0.9+	2000 03 05	704	0.1+	0.3-	2000 03 28	704	0.7+	0.6-

M.P.C. 40286

2000 APR. 18

2000 01 04	704	0.9−	0.4+	2000 03 05	704	0.1+	0.2+	2000 04 04	704	0.1+	0.6−
2000 01 04	704	0.1−	0.5−	2000 03 05	704	0.8+	0.4+	2000 04 04	704	0.3−	0.5−
2000 02 04	704	0.3+	0.0	2000 03 09	704	0.3+	0.3+	2000 04 04	704	0.1+	0.8−
2000 02 04	704	0.6+	0.2+	2000 03 09	704	0.1−	0.1+	2000 04 04	704	0.1+	0.2−
2000 02 04	704	0.8+	0.6+	2000 03 09	704	0.1+	1.3+				

5050 T-3 = 2000 CZ₉₁

Id. A. Doppler

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	78.37881		(2000.0)	P	Q
<i>n</i>	0.27682314	ω	271.25537	+0.54569283	−0.83318358
<i>a</i>	2.3316738	Ω	145.18786	+0.81764534	+0.50598711
<i>e</i>	0.2357816	<i>i</i>	9.02773	+0.18350867	+0.22311917
<i>P</i>	3.56	<i>H</i>	14.8	<i>G</i>	0.15
				<i>U</i>	2

Residuals in seconds of arc

1977 10 11	675	0.9+	0.0	2000 02 11	704	0.0	0.7+	2000 03 12	704	0.1+	0.2−
1977 10 11	675	1.0+	0.4+	2000 02 11	704	0.1+	0.7+	2000 03 12	704	0.1−	1.1−
1977 10 12	675	1.2−	0.3−	2000 02 11	704	0.3+	0.3+	2000 04 03	699	0.4−	0.2+
1977 10 12	675	0.5+	0.2−	2000 02 11	704	0.3−	0.6+	2000 04 03	699	0.4−	0.2−
1977 10 16	675	0.6−	0.2+	2000 02 11	704	0.7−	0.3+	2000 04 03	704	0.2+	0.1−
1977 10 16	675	0.7−	0.5+	2000 03 05	704	0.4+	0.0	2000 04 03	699	0.1+	0.2+
1998 07 29	910	0.1+	0.3+	2000 03 05	704	0.4−	0.4−	2000 04 03	704	0.1+	0.9+
1998 07 29	910	0.1−	0.2+	2000 03 05	704	0.2−	0.4+	2000 04 03	699	0.2−	0.2−
1998 07 29	910	0.1−	0.2+	2000 03 05	704	0.0	0.2−	2000 04 03	704	0.6−	0.7+
2000 02 06	704	0.7+	0.8−	2000 03 05	704	0.6+	0.3+	2000 04 03	704	0.7−	0.1−
2000 02 06	704	0.2−	0.3+	2000 03 12	704	0.5+	0.6−	2000 04 03	704	0.3−	1.0+
2000 02 06	704	0.6+	0.5−	2000 03 12	704	0.2−	0.0				
2000 02 06	704	0.0	0.6−	2000 03 12	704	0.2+	0.0				

5075 T-3 = 2000 DT₄₀

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	88.26648		(2000.0)	P	Q
<i>n</i>	0.27919892	ω	256.24707	+0.50672074	−0.86014364
<i>a</i>	2.3184277	Ω	162.93038	+0.84758807	+0.48471023
<i>e</i>	0.0826881	<i>i</i>	11.43564	+0.15757079	+0.15877315
<i>P</i>	3.53	<i>H</i>	15.4	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 10 11	675	0.1−	0.5+	2000 02 29	704	0.7+	0.4+	2000 03 04	704	1.3−	1.3+
1977 10 11	675	1.5−	0.7+	2000 02 29	704	1.2+	0.2+	2000 03 04	704	0.5−	0.5−
1977 10 12	675	0.0	0.7−	2000 02 29	704	0.3+	0.4−	2000 03 04	704	0.1−	0.2−
1977 10 12	675	0.1−	1.5+	2000 02 29	704	0.5+	0.8−	2000 03 05	704	1.9+	1.0−
1977 10 16	675	0.8−	1.1−	2000 03 02	691	0.0	0.1+	2000 03 05	704	0.1+	0.7+
1977 10 16	675	0.5+	0.7−	2000 03 02	691	0.9−	0.2−	2000 03 05	704	0.4−	0.6−
1977 10 17	675	2.5+	1.4−	2000 03 02	691	0.2−	0.2−	2000 03 05	704	0.2+	0.0
1977 10 17	675	1.7+	1.8−	2000 03 03	704	0.1−	0.4+	2000 03 05	704	0.1+	0.8+
1977 10 21	675	1.3−	0.5+	2000 03 03	704	0.4−	0.1−	2000 03 11	704	0.6+	0.4−
1977 10 21	675	0.8−	2.5+	2000 03 03	704	0.3−	0.7+	2000 03 11	704	0.3−	0.1−
2000 02 28	691	(2.7−	2.5−)	2000 03 03	704	0.4+	0.4+	2000 03 11	704	0.5−	0.4−
2000 02 28	691	0.4−	0.3−	2000 03 03	704	0.3+	0.2+	2000 03 11	704	0.2−	0.2+
2000 02 28	691	0.5−	0.1−	2000 03 04	704	0.4−	0.4+	2000 03 11	704	0.2+	0.2+
2000 02 29	704	0.1−	0.5−	2000 03 04	704	0.1+	0.4−				

5089 T-3 = 1998 UO₃₀ = 2000 DS₁₀₀Id. G. V. Williams (*MPC* 39508), M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	213.69040		(2000.0)	P	Q
<i>n</i>	0.28396924	ω	192.17976	+0.67331113	+0.73097964
<i>a</i>	2.2923901	Ω	120.26058	−0.66710769	+0.66535750
<i>e</i>	0.1360383	<i>i</i>	7.38350	−0.31877807	+0.15155252
<i>P</i>	3.47	<i>H</i>	14.9	<i>G</i>	0.15
				<i>U</i>	4

Residuals in seconds of arc

1977 10 11	675	0.4+	0.1+	1998 10 18	809	0.2+	0.5−	2000 02 29	704	0.4−	0.1−
1977 10 11	675	2.2−	0.5+	1998 10 18	809	1.5−	1.5−	2000 02 29	704	0.2+	0.2+
1977 10 12	675	0.9−	0.1+	1998 10 18	809	0.3−	0.7+	2000 02 29	704	0.5−	0.1+
1977 10 12	675	0.5−	1.4−	1998 10 19	809	1.5+	0.0	2000 03 05	704	0.2+	1.2−
1977 10 16	675	0.9+	1.2+	1998 10 19	809	1.9+	0.0	2000 03 05	704	0.6−	0.4+
1977 10 16	675	1.2+	1.0−	1998 10 19	809	1.5+	0.0	2000 03 05	704	0.7−	0.4−
1977 10 17	675	2.0+	1.0−	1998 11 13	704	2.7+	0.2+	2000 03 05	704	0.5−	0.5−
1977 10 17	675	1.7+	0.3−	1998 11 13	704	1.3−	1.4+	2000 03 05	704	0.1+	0.3−
1977 10 21	675	0.1−	1.4+	1998 11 13	704	0.3−	0.0	2000 03 12	704	0.3+	1.2+
1977 10 21	675	0.6−	0.4+	1998 11 13	704	4.1−	1.0−	2000 03 12	704	0.9+	0.1−
1977 10 22	675	1.1−	0.1+	2000 02 29	704	1.6+	0.2−	2000 03 12	704	0.2+	0.9+
1977 10 22	675	1.0−	0.6+	2000 02 29	704	0.5−	0.0				

5107 T-3 = 2000 EQ₈₃

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	283.05565		(2000.0)	P	Q
<i>n</i>	0.28652219	ω	159.46548	−0.14143716	+0.98335917
<i>a</i>	2.2787527	Ω	102.26797	−0.92376291	−0.08969641
<i>e</i>	0.1600837	<i>i</i>	6.70072	−0.35588990	−0.15798512
<i>P</i>	3.44	<i>H</i>	14.7	<i>G</i>	0.15
				<i>U</i>	3

Residuals in seconds of arc

1977 10 11	675	0.4−	1.0+	1998 11 24	704	0.8+	0.2−	2000 03 05	704	0.4+	0.2−
1977 10 11	675	0.5−	0.8+	1998 11 24	704	0.8+	1.8−	2000 03 05	704	0.3+	0.0
1977 10 12	675	0.3+	0.1−	1998 11 24	704	1.9−	1.0+	2000 03 05	704	0.1+	0.1−
1977 10 12	675	0.4+	0.5−	2000 02 01	703	0.2+	0.3+	2000 03 12	704	0.2−	0.1+
1977 10 16	675	1.5−	0.8+	2000 02 01	703	1.2+	0.1−	2000 03 12	704	0.6−	0.1+
1977 10 16	675	1.9+	0.7−	2000 02 01	703	0.8−	0.3+	2000 03 12	704	0.3+	0.0
1977 10 16	675	0.8−	0.5−	2000 02 01	703	0.2+	0.6−	2000 03 12	704	0.1+	0.8+
1977 10 16	675	(2.8+	1.3−)	2000 02 04	704	0.1+	0.2−	2000 03 12	704	0.3−	0.7−
1977 10 17	675	1.1+	0.2+	2000 02 04	704	0.4+	0.2−	2000 04 04	704	0.7+	0.1−
1977 10 17	675	0.0	0.6−	2000 02 04	704	0.1−	0.4+	2000 04 04	704	0.5−	0.0
1977 10 21	675	0.1−	0.3−	2000 02 04	704	0.8+	0.6+	2000 04 04	704	1.0−	0.1+
1977 10 21	675	1.0−	1.3+	2000 03 05	704	0.2+	0.1+	2000 04 04	704	0.4−	0.4+
1998 11 24	704	0.6+	0.1−	2000 03 05	704	0.0	0.3−	2000 04 04	704	0.6−	0.2−

5602 T-3 = 2000 DN₂₄

Id. M. E. Sansaturio

Epoch 2000 Feb. 26.0 TT = JDT 2451600.5

Williams

<i>M</i>	85.41046		(2000.0)	P	Q
<i>n</i>	0.19120413	ω	279.30644	+0.51659322	−0.84778894
<i>a</i>	2.9840392	Ω	138.85869	+0.83960158	+0.47409261
<i>e</i>	0.0372574	<i>i</i>	10.50380	+0.16793041	+0.23767650
<i>P</i>	5.15	<i>H</i>	14.2	<i>G</i>	0.15
				<i>U</i>	5

Residuals in seconds of arc

1977 10 11	675	0.0	1.0+	2000 02 06	695	0.0	0.4−	2000 03 03	704	0.3+	0.0
1977 10 11	675	0.6+	0.6+	2000 02 11	704	0.2+	0.2+	2000 03 03	704	0.3−	0.4+
1977 10 12	675	1.0−	1.0−	2000 02 11	704	0.3+	1.2−	2000 03 03	704	0.2+	0.3+
1977 10 12	675	0.6−	0.4+	2000 02 11	704	0.4+	0.3+	2000 03 06	159	1.4+	0.6+
1977 10 16	675	0.2−	0.1−	2000 02 11	704	0.1−	1.4+	2000 03 06	159	0.9−	0.6−
1977 10 16	675	0.6+	1.0−	2000 02 29	704	0.3−	0.7+	2000 03 06	159	1.0+	0.9−
1977 10 17	675	1.1−	0.8−	2000 02 29	704	0.4+	0.2−	2000 03 06	159	1.2+	0.6+
1977 10 17	675	0.5−	0.1+	2000 02 29	704	0.0	0.0	2000 03 09	704	0.5−	0.0
1977 10 21	675	(0.8+	3.2+)	2000 02 29	704	0.5−	0.7−	2000 03 09	704	0.4−	0.1−
1977 10 21	675	2.3+	0.7+	2000 03 03	704	0.7−	0.9−	2000 03 09	704	0.7−	0.2−
2000 02 06	695	0.4−	0.2−	2000 03 03	704	0.1−	0.6+	2000 03 09	704	0.4−	0.2+

Object	<i>H</i>	<i>G</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Obs.	Opp. & Arc	rms	Perts	<i>U</i>	Computer	<i>MPC</i>	Object
(546)	9.70	0.15	20000226	177.32720	108.50941	22.09169	14.86310	0.1144949	2.5974839	72	28 1904–1998	1.01	M-v	1	Williams	16387	(546)
(965)	9.8	0.15	20000226	296.84649	47.40728	41.61835	21.49553	0.2881281	3.1430929	39	15 1927–1999	1.03	M-v	1	Williams	31133	(965)
(967)	12.1	0.15	20000226	298.20323	231.41234	82.51724	5.41613	0.1679856	2.2258383	92	16 1924–1999	0.84	M-v	1	Williams	19480	(967)
(1103)	12.25	0.15	20000226	241.25616	77.58994	267.76894	17.89879	0.0943096	1.9338208	68	14 1928–1999	0.82	M-v	2	Williams	1988	(1103)
(1193)	12.2	0.15	20000226	343.81026	184.49517	49.81353	14.12108	0.1218781	2.6479602	76	13 1931–2000	0.86	M-v	1	Williams	30684	(1193)
(1418)	12.09	0.15	20000226	292.60299	323.80555	355.33522	7.19463	0.2028493	2.2420908	112	22 1903–1999	0.77	M-v	1	Williams	19987	(1418)
(1582)	10.9	0.15	20000226	340.64838	130.95093	94.15072	11.60736	0.1296121	3.1551971	107	19 1950–2000	0.96	M-v	1	Williams	25514	(1582)
(1714)	11.9	0.15	20000226	316.31875	321.42393	301.06923	7.98975	0.1565053	2.5669948	64	13 1949–2000	0.72	M-v	1	Williams	35407	(1714)
(2006)	12.6	0.15	20000226	154.54866	24.22375	1.19477	4.91834	0.1928039	2.3248709	89	12 1950–2000	0.65	M-v	1	Williams	27086	(2006)
(2312)	10.18	0.15	20000226	145.56255	346.25986	62.01927	5.18853	0.1478448	3.9796597	122	19 1943–2000	0.88	M-v	0	Williams	16687	(2312)
(2342)	11.7	0.15	20000226	151.79188	209.36309	194.77179	0.33916	0.1331686	3.2238773	131	16 1906–2000	0.76	M-v	1	Williams	21906	(2342)
(2369)	11.8	0.15	20000226	326.34458	240.82369	48.16815	2.63560	0.0464062	2.7831754	109	16 1955–1999	0.87	M-v	1	Williams	24887	(2369)
(2896)	12.7	0.15	20000226	299.00700	120.62190	171.87621	5.99246	0.1871901	2.2203897	53	12 1931–2000	0.95	M-v	1	Williams	20613	(2896)
(2974)	13.9	0.15	20000226	223.67737	130.08992	215.17019	6.42371	0.1399975	2.3126819	65	11 1949–2000	0.88	M-v	1	Williams	29580	(2974)
(3102)	15.6	0.15	20000226	310.90183	154.37142	172.38049	8.40929	0.4474881	2.1526293	107	5 1981–1999	0.82	M-v	1	Williams	30432	(3102)
(3239)	14.6	0.15	20000226	265.68060	239.09276	93.84779	3.02013	0.2206700	2.1849249	56	9 1977–1999	0.88	M-v	2	Williams	27086	(3239)
(3374)	13.0	0.15	20000226	338.16168	147.85757	75.54976	3.02647	0.0186956	2.9487139	98	10 1980–2000	0.81	M-v	1	Williams	18778	(3374)
(3411)	13.6	0.15	20000226	63.33176	50.26938	69.40916	5.38947	0.1170471	2.2432740	114	11 1954–2000	0.74	M-v	1	Williams	19989	(3411)
(3438)	11.7	0.15	20000226	280.40044	347.90467	2.97308	15.21886	0.1932548	3.0567564	78	9 1942–1999	0.89	M-v	2	Williams	17604	(3438)
(3530)	13.9	0.15	20000226	241.10316	75.40723	263.07413	1.17357	0.2239443	2.4010036	58	9 1975–2000	0.79	M-v	1	Williams	27432	(3530)
(3692)	13.7	0.15	20000226	345.79638	8.81839	219.84721	11.37019	0.1476947	2.7252252	51	8 1951–2000	0.78	M-v	1	Williams	24888	(3692)
(3782)	12.5	0.15	20000226	314.53406	334.20657	271.51228	5.25736	0.0958141	2.4149725	82	12 1970–2000	0.79	M-v	1	Williams	38010	(3782)
(3865)	12.7	0.15	20000226	304.87425	32.76433	214.77411	6.55761	0.0812897	2.3975668	124	11 1978–2000	0.68	M-v	1	Williams	29582	(3865)
(3891)	14.7	0.15	20000226	328.66708	345.89471	269.67633	1.60087	0.1806780	2.4044472	35	7 1974–2000	0.94	M-v	1	Williams	26885	(3891)
(4030)	13.0	0.15	20000226	300.97129	301.57589	342.57827	6.51883	0.0946485	2.4601472	76	9 1955–2000	0.63	M-v	1	Williams	22668	(4030)
(4432)	14.9	0.15	20000226	223.44299	246.73894	114.89405	0.46051	0.2130720	2.3870458	48	8 1977–2000	0.77	M-v	1	Williams	20131	(4432)
(4496)	12.8	0.15	20000226	84.18340	326.36672	163.22868	4.79116	0.0573130	2.8132578	73	12 1955–2000	0.84	M-v	1	Williams	23496	(4496)
(4633)	12.9	0.15	20000226	333.98664	64.02723	168.25574	1.14511	0.1645878	3.1828292	91	9 1977–2000	0.60	M-v	1	Williams	17191	(4633)
(4666)	13.0	0.15	20000226	295.60245	41.27585	230.43923	24.54710	0.2337539	2.3392385	31	8 1986–2000	0.78	M-v	2	Williams	38748	(4666)
(4773)	12.7	0.15	20000226	98.75092	61.24093	60.52763	5.01916	0.1177286	2.6102322	75	7 1970–1999	0.85	M-v	1	Williams	23115	(4773)
(4905)	12.1	0.15	20000226	276.25124	176.13571	198.76305	12.40901	0.1674699	2.6013832	84	9 1908–1999	0.88	M-v	2	Williams	18616	(4905)
(5086)	14.0	0.15	20000226	322.52980	81.70701	183.35304	3.38906	0.1141556	2.1769176	63	9 1978–1999	0.72	M-v	1	Williams	24089	(5086)
(5116)	11.4	0.15	20000226	133.15496	34.03009	30.85215	5.25647	0.1197207	3.1931972	101	9 1970–2000	0.80	M-v	1	Williams	19839	(5116)
(5203)	13.5	0.15	20000226	261.29856	11.39732	293.56486	2.79985	0.1842232	2.2349943	90	12 1933–2000	0.77	M-v	1	Williams	26548	(5203)
(5204)	12.2	0.15	20000226	60.15275	302.49065	175.17445	0.86233	0.1332747	3.1443379	134	9 1975–2000	0.69	M-v	1	Williams	20133	(5204)
(5271)	13.1	0.15	20000226	0.64947	53.38613	131.24619	14.05396	0.1178864	2.6682804	79	10 1954–2000	0.63	M-v	1	Williams	20616	(5271)
(5635)	13.8	0.15	20000226	283.47913	53.91023	274.26811	7.31071	0.2662800	2.3867652	39	5 1981–2000	0.91	M-v	2	Williams	22477	(5635)
(5899)	14.0	0.15	20000226	179.41408	263.55963	125.44079	24.00483	0.1166500	1.9287956	41	6 1978–2000	0.71	M-v	2	Williams	39510	(5899)
(6164)	14.0	0.15	20000226	267.27220	318.56493	353.07960	4.82480	0.1930279	2.2458246	43	8 1930–2000	0.75	M-v	1	Williams	24374	(6164)
(6257)	13.5	0.15	20000226	151.54027	21.87721	30.70955	7.92466	0.0892898	2.3410335	41	6 1971–2000	0.80	M-v	1	Williams	24732	(6257)
(6323)	13.1	0.15	20000226	47.65216	133.75989	11.16556	5.20657	0.1351168	2.6359039	65	7 1970–2000	0.72	M-v	1	Williams	38013	(6323)
(6326)	12.2	0.15	20000226	65.78986	281.86508	199.74537	12.57489	0.1302046	2.6824563	88	6 1978–2000	0.64	M-v	1	Williams	33331	(6326)
(6464)	12.0	0.15	20000226	70.26952	12.60771	108.76292	11.65228	0.0539883	3.0073797	120	7 1980–2000	0.65	M-v	1	Williams	25325	(6464)
(6735)	13.7	0.15	20000226	104.24253	357.52123	75.18286	2.90368	0.0786019	2.1588633	187	5 1992–2000	0.64	M-v	1	Williams	29892	(6735)
(6889)	14.0	0.15	20000226	280.83854	233.02373	86.74759	4.84040	0.1956108	2.2029739	53	8 1955–2000	0.77	M-v	2	Williams	26887	(6889)
(6976)	13.2	0.15	20000226	236.17698	251.08314	91.59522	8.25119	0.1680435	2.3340153	90	6 1992–2000	0.56	M-v	1	Williams	27096	(6976)
(7313)	14.9	0.15	20000226	304.42517	4.40246	243.06098	2.57246	0.0663583	2.5735216	36	4 1960–2000	0.60	M-v	2	Williams	28292	(7313)
(7621)	14.7	0.15	20000226	15.18796	128.00319	230.04506	0.30035	0.1828408	3.1465518	74	6 1960–1999	0.83	M-v	2	Williams	29605	(7621)
(7686)	14.0	0.15	20000226	23.63621	192.08330	355.04146	4.70975	0.0853072	2.2664031	52	8 1955–2000	0.84	M-v	1	Williams	29908	(7686)
(7980)	14.0	0.15	20000226	203.85762	357.09404	2.98076	1.64616	0.0790870	2.8191677	66	6 1978–2000	0.69	M-v	1	Williams	30848	(7980)
(8660)	10.9	0.15	20000226	273.99532	243.76064	86.43997	6.62673	0.0483272	3.2572204	62	7 1979–1999	0.86	M-v	1	Williams	31677	(8660)

(9457)	12.9	0.15	20000226	217.47002	53.29448	32.14499	0.47028	0.1711803	3.1733672	54	5	1926-1998	0.73	M-v	2	Williams	32643	(9457)
(9620)	14.2	0.15	20000226	109.71917	2.12463	74.58954	4.24645	0.1543856	2.2509721	46	5	1988-2000	0.74	M-v	2	Williams	32893	(9620)
(9722)	15.4	0.15	20000226	70.18759	93.16126	20.71709	1.24824	0.1746128	2.4092093	105	5	1951-2000	0.83	M-v	1	Williams	33192	(9722)
(9762)	14.9	0.15	20000226	99.74670	113.05600	344.64031	3.73015	0.0642404	2.2482132	70	5	1991-2000	0.61	M-v	1	Williams	33202	(9762)
(9820)	15.2	0.15	20000226	9.59844	266.83171	276.33600	0.26875	0.1438620	2.3508881	84	6	1971-2000	0.66	M-v	1	Williams	33216	(9820)
(9901)	14.4	0.15	20000226	206.61550	98.59819	263.33314	5.35492	0.1280008	2.3481388	77	5	1983-2000	0.58	M-v	1	Williams	33469	(9901)
(9925)	13.8	0.15	20000226	150.31213	63.92805	329.60554	3.23265	0.0937620	2.8071541	49	5	1981-2000	0.72	M-v	1	Williams	33654	(9925)
(9943)	13.3	0.15	20000226	152.82932	320.28967	87.85635	4.91072	0.1612708	2.6114183	62	5	1982-2000	0.67	M-v	1	Williams	33658	(9943)
(9973)	14.2	0.15	20000226	142.74793	104.11658	297.40663	1.50037	0.1699218	2.5322099	59	8	1949-2000	0.74	M-v	1	Williams	33665	(9973)
(10018)	13.2	0.15	20000226	325.00402	81.56138	162.43915	1.66419	0.1407783	3.0962938	77	5	1979-2000	0.63	M-v	1	Williams	38016	(10018)
(10043)	11.9	0.15	20000226	150.56758	265.03424	152.10268	17.35140	0.1184586	3.1312067	123	6	1985-2000	0.59	M-v	1	Williams	33868	(10043)
(10196)	12.9	0.15	20000226	253.43437	210.55277	118.77709	2.23183	0.1520680	3.1923744	48	5	1971-2000	0.81	M-v	1	Williams	33904	(10196)
(10420)	13.0	0.15	20000226	36.04513	98.20355	71.01914	3.27637	0.1123136	3.0830598	63	5	1978-2000	0.64	M-v	1	Williams	34165	(10420)
(10435)	13.4	0.15	20000226	87.12008	275.56255	193.34032	10.68688	0.1862482	2.7856825	47	6	1960-2000	0.86	M-v	1	Williams	34168	(10435)
(11358)	11.7	0.15	20000226	293.27390	9.26473	311.85042	9.37715	0.0819398	3.0107876	45	5	1978-1999	0.62	M-v	1	Williams	35580	(11358)
(11761)	14.8	0.15	20000226	78.05446	80.03238	20.67463	1.85427	0.1829212	3.0482189	47	4	1960-2000	0.53	M-v	1	Williams	35900	(11761)
1937 UD	14.7	0.15	20000226	210.36321	314.27284	33.36423	8.96188	0.3339866	2.1685589	69	4	1937-2000	0.50	M-v	2	Williams	39510	1937 UD
1951 QD	14.1	0.15	20000226	109.51395	295.67996	125.85753	8.67181	0.2255119	2.8035861	28	3	1951-2000	0.63	M-v	3	Williams	33671	1951 QD
1967 KY	13.2	0.15	20000226	133.18535	216.59442	39.29946	8.07477	0.1705983	2.9833447	61	4	1967-1999	0.58	M-v	2	Williams	37616	1967 KY
1969 TY ₁	12.7	0.15	20000226	212.25395	153.70413	200.65576	5.78263	0.0954291	3.1239650	68	6	1969-2000	0.66	M-v	1	Williams	35676	1969 TY ₁
1970 OF	13.3	0.15	20000226	225.37935	30.09657	321.72542	6.29467	0.3117890	2.6966522	61	7	1970-2000	0.69	M-v	2	Williams	34001	1970 OF
1971 UQ	15.4	0.15	20000226	150.03941	311.45148	55.17821	3.57249	0.1714241	2.2557317	50	4	1971-2000	0.72	M-v	2	Williams	39510	1971 UQ
1972 TE	13.6	0.15	20000226	138.72558	158.16496	218.73478	4.38519	0.2679886	2.6388499	80	8	1959-2000	0.64	M-v	2	Williams	39510	1972 TE
1973 SU	11.4	0.15	20000226	76.21787	184.74338	194.81797	2.93797	0.1611218	5.1426780	52	4	1973-2000	0.75	M-v	2	Williams	38429	1973 SU
1973 SC ₂	11.9	0.15	20000226	40.70928	25.37129	41.26556	3.60009	0.1167413	5.1857245	22	2	1973-2000	0.67	M-v	5	Williams	37617	1973 SC ₂
1973 SX ₂	12.5	0.15	20000226	140.08701	186.69107	201.65841	14.67368	0.1144899	2.5676595	91	4	1973-2000	0.63	M-v	2	Williams	39510	1973 SX ₂
1973 UN ₅	14.8	0.15	20000226	281.53663	75.10701	48.11251	3.27351	0.1570960	2.4203518	23	3	1973-1999	0.70	M-v	5	Williams	39139	1973 UN ₅
1975 SM ₁	15.7	0.15	20000226	163.56390	219.48824	155.55579	2.98702	0.2215137	2.4265821	31	6	1975-2000	0.70	M-v	1	Williams	34001	1975 SM ₁
1975 SE ₂	14.9	0.15	20000226	174.37050	331.99695	40.62545	6.85445	0.1384134	2.4213914	40	4	1975-2000	0.78	M-v	2	Williams	33738	1975 SE ₂
1975 VZ ₈	12.9	0.15	20000226	138.65344	71.25485	302.80893	11.66286	0.1743729	2.7561366	57	3	1975-2000	0.67	M-v	3	Williams	39510	1975 VZ ₈
1976 SD ₅	13.0	0.15	20000226	156.74449	179.73868	213.48561	9.62290	0.1093917	3.0235942	52	4	1976-2000	0.68	M-v	1	Williams	35676	1976 SD ₅
1976 YN ₇	12.4	0.15	20000226	143.24541	273.04593	100.42166	13.53069	0.1878876	2.6957266	73	4	1976-2000	0.59	M-v	1	Williams	39510	1976 YN ₇
1977 DG ₃	14.1	0.15	20000226	324.85795	44.81090	145.39343	6.20223	0.0879252	2.4507492	112	4	1977-2000	0.56	M-v	2	Williams	39510	1977 DG ₃
1977 PC ₁	13.7	0.15	20000226	96.40946	83.57510	288.58486	5.97437	0.2316741	2.3272614	62	4	1977-2000	0.54	M-v	2	Williams	39510	1977 PC ₁
1977 QN ₁	12.7	0.15	20000226	150.63071	308.83163	343.59111	12.92241	0.1811636	2.6179910	60	3	1977-2000	0.64	M-v	2	Williams	39510	1977 QN ₁
1977 QO ₃	14.3	0.15	20000226	57.94192	91.58484	276.29024	1.12003	0.2364602	2.3599631	113	3	1977-2000	0.55	M-v	2	Williams	39510	1977 QO ₃
1977 RM	13.9	0.15	20000226	97.32710	282.88980	96.56527	23.53019	0.0767746	2.6039109	51	2	1977-2000	0.58	M-v	4	Williams	39510	1977 RM
1977 TU ₃	12.3	0.15	20000226	77.66906	174.82066	215.23388	14.75664	0.1971928	3.0442934	76	3	1977-2000	0.68	M-v	2	Williams	38750	1977 TU ₃
1977 UA	13.9	0.15	20000226	358.85955	134.77688	276.79978	9.31884	0.1898883	2.3840905	64	3	1977-2000	0.62	M-v	2	Williams	38017	1977 UA
1977 XF ₂	13.0	0.15	20000226	355.70917	336.88272	82.22135	8.22683	0.1453507	3.1640412	76	4	1977-2000	0.63	M-v	2	Williams	38017	1977 XF ₂
1977 XZ ₂	13.2	0.15	20000226	274.51527	310.65678	344.16420	1.25954	0.0892466	2.9454336	70	7	1977-2000	0.74	M-v	1	Williams	35676	1977 XZ ₂
1978 PV ₂	13.6	0.15	20000226	207.80514	4.74533	319.35763	5.37347	0.2683820	2.2066849	66	3	1978-2000	0.70	M-v	3	Williams	39510	1978 PV ₂
1978 PA ₃	15.1	0.15	20000226	188.61709	170.47241	169.10891	2.16213	0.1947529	2.2133759	92	4	1978-2000	0.75	M-v	2	Williams	39511	1978 PA ₃
1978 PG ₄	14.4	0.15	20000226	158.23748	36.92397	303.05502	6.11979	0.2217793	2.2324303	101	3	1978-2000	0.60	M-v	2	Williams	39511	1978 PG ₄
1978 QF ₁	14.7	0.15	20000226	13.65932	199.81364	187.18824	4.97432	0.2146067	2.3108413	71	4	1978-1999	0.64	M-v	2	Williams	37255	1978 QF ₁
1978 QK ₂	15.1	0.15	20000226	120.40164	134.65706	189.90036	3.90444	0.2502332	2.2643170	42	5	1978-1999	0.59	M-v	2	Williams	38429	1978 QK ₂
1978 RV	13.7	0.15	20000226	254.10707	319.13639	11.64199	9.39604	0.2984776	2.7649977	26	3	1978-2000	0.73	M-v	4	Williams	33921	1978 RV
1978 RX ₁	14.3	0.15	20000226	147.46227	220.70272	137.77144	3.96770	0.2067516	2.2370418	117	3	1988-2000	0.69	M-v	2	Williams	39511	1978 RX ₁
1978 RD ₂	14.2	0.15	20000226	51.88584	328.84422	34.48748	4.76529	0.2308756	2.5861753	110	3	1978-2000	0.54	M-v	2	Williams	39511	1978 RD ₂
1978 RG ₉	14.3	0.15	20000226	121.63422	295.61592	340.93863	10.72633	0.1480660	2.5754537	40	2	1978-1999	0.71	M-v	4	Williams	36873	1978 RG ₉
1978 RK ₉	14.5	0.15	20000226	347.90602	121.42231	347.49674	4.80360	0.1589911	2.2695169	64	2	1978-2000	0.60	M-v	4	Williams	38750	1978 RK ₉
1978 SH ₃	14.3	0.15	20000226	154.21795	159.63803	213.81042	3.94141	0.1732710	2.2248842	96	4	1978-2000	0.76	M-v	3	Williams	39511	1978 SH ₃
1978 SD ₈	14.5	0.15	20000226	198.14058	327.15876	20.78344	4.24681	0.2117118	2.2125156	71	3	1978-2000	0.57	M-v	3	Williams	39139	1978 SD ₈

1978 TR ₇	13.0	0.15	20000226	182.06253	339.38758	88.44145	9.32420	0.2091702	2.7948658	27	4	1978-1999	0.86	M-v	2	Williams	35056	1978 TR ₇
1978 UW ₄	14.1	0.15	20000226	271.31811	290.72167	230.58337	5.83118	0.0515351	2.2978293	104	4	1978-2000	0.49	M-v	2	Williams	38750	1978 UW ₄
1978 UJ ₅	15.3	0.15	20000226	24.46037	103.04554	303.84846	1.69146	0.1251019	2.2997173	85	5	1978-2000	0.57	M-v	2	Williams	38017	1978 UJ ₅
1978 UX ₇	14.8	0.15	20000226	85.09080	190.38947	239.77860	1.74340	0.1434824	2.5215970	52	3	1978-2000	0.73	M-v	2	Williams	39511	1978 UX ₇
1978 VA	14.1	0.15	20000226	18.79333	43.62344	59.40441	25.00969	0.3373775	2.5928478	55	2	1978-2000	0.56	M-v	2	Williams	39511	1978 VA
1978 VO ₂	13.7	0.15	20000226	335.43513	212.45781	244.06146	7.00375	0.0998331	2.6186432	97	2	1978-2000	0.56	M-v	4	Williams	38017	1978 VO ₂
1978 VV ₃	12.9	0.15	20000226	301.67287	80.95080	63.01880	12.26508	0.0935929	3.0390329	89	3	1978-2000	0.50	M-v	4	Williams	39511	1978 VV ₃
1978 VB ₄	15.2	0.15	20000226	57.10591	144.82527	252.12585	4.74173	0.1598143	2.2979328	35	2	1978-2000	0.60	M-v	4	Williams	38017	1978 VB ₄
1978 VL ₄	16.5	0.15	20000226	22.80861	202.33400	230.24898	4.09328	0.2307652	2.3041805	45	3	1978-1999	0.53	M-v	3	Williams	38017	1978 VL ₄
1978 VO ₅	14.8	0.15	20000226	71.80067	119.36479	272.12693	2.57911	0.1126670	2.2928306	38	3	1978-2000	0.50	M-v	2	Williams	38750	1978 VO ₅
1978 VY ₅	14.6	0.15	20000226	83.42511	10.63469	75.33132	2.16320	0.1589459	2.2570366	114	3	1978-2000	0.62	M-v	2	Williams	39511	1978 VY ₅
1978 VO ₆	14.2	0.15	20000226	196.76993	54.91377	272.67517	3.64783	0.1030112	2.2492000	54	4	1978-2000	0.57	M-v	3	Williams	39511	1978 VO ₆
1978 VX ₆	13.9	0.15	20000226	346.07744	72.16142	62.49639	12.17986	0.1335574	2.5867174	35	2	1978-2000	0.67	M-v	4	Williams	38750	1978 VX ₆
1978 VS ₈	14.5	0.15	20000226	72.67873	277.03155	184.93296	1.87923	0.0502531	2.5289344	77	4	1978-2000	0.66	M-v	3	Williams	39511	1978 VS ₈
1978 VU ₈	15.4	0.15	20000226	99.77347	352.71245	82.40451	2.45295	0.2028770	2.5293897	33	3	1978-2000	0.59	M-v	3	Williams	35677	1978 VU ₈
1978 VZ ₈	15.1	0.15	20000226	22.78534	353.50965	59.06286	3.80742	0.1254275	2.6144371	73	3	1978-2000	0.56	M-v	3	Williams	38750	1978 VZ ₈
1978 VC ₉	14.6	0.15	20000226	358.84429	209.70079	268.42756	1.40016	0.1167325	2.5876497	26	3	1978-2000	0.36	M-v	4	Williams	38750	1978 VC ₉
1978 VL ₉	15.5	0.15	20000226	43.41619	241.59649	161.68589	1.66111	0.1609079	2.5995385	33	2	1978-2000	0.63	M-v	4	Williams	38430	1978 VL ₉
1978 VP ₉	15.1	0.15	20000226	79.91382	83.75215	237.48921	6.36806	0.1350124	2.3336755	67	3	1978-2000	0.66	M-v	2	Williams	38017	1978 VP ₉
1978 VQ ₉	13.6	0.15	20000226	153.61755	250.54991	67.95562	13.26982	0.2086941	2.5607357	54	3	1978-2000	0.79	M-v	3	Williams	38750	1978 VQ ₉
1978 VW ₉	14.3	0.15	20000226	205.37382	281.27292	40.22597	2.83287	0.1621767	2.5176562	56	5	1978-2000	0.64	M-v	4	Williams	39511	1978 VW ₉
1978 VN ₁₀	14.7	0.15	20000226	329.45595	259.51592	208.20888	2.93081	0.1511517	3.0581730	36	2	1978-1999	0.68	M-v	4	Williams	38017	1978 VN ₁₀
1978 XD ₁	13.9	0.15	20000226	66.06298	276.70325	123.69454	3.08490	0.1091914	2.9728092	58	4	1978-2000	0.75	M-v	1	Williams	39139	1978 XD ₁
1979 KD	12.9	0.15	20000226	357.42081	101.38042	150.18177	7.84237	0.1533618	2.5928795	70	8	1979-2000	0.67	M-v	1	Williams	35057	1979 KD
1979 MM ₁	12.8	0.15	20000226	151.14053	257.89104	129.24949	16.61690	0.1046859	3.1822115	56	3	1979-2000	0.67	M-v	3	Williams	39511	1979 MM ₁
1979 ML ₂	13.1	0.15	20000226	326.08526	146.80107	130.63826	12.86802	0.1997518	3.0534172	26	4	1979-2000	0.85	M-v	2	Williams	34281	1979 ML ₂
1979 MS ₂	15.9	0.15	20000226	309.27344	35.45876	216.54889	2.33093	0.1401689	2.3380210	30	4	1979-2000	0.47	M-v	2	Williams	30778	1979 MS ₂
1979 MU ₂	15.1	0.15	20000226	260.88480	150.05127	161.55769	5.73532	0.1523657	3.1182241	31	6	1977-2000	0.81	M-v	1	Williams	34002	1979 MU ₂
1979 MB ₃	13.2	0.15	20000226	305.35126	126.86166	118.75640	14.46477	0.1734299	2.6622498	44	3	1979-2000	0.64	M-v	2	Williams	39139	1979 MB ₃
1979 MJ ₃	14.3	0.15	20000226	67.22877	261.38065	174.62678	5.42572	0.0341034	2.7316202	26	2	1979-2000	0.50	M-v	5	Williams	39140	1979 MJ ₃
1979 MQ ₃	14.1	0.15	20000226	26.60462	273.72925	140.54416	10.20927	0.2188617	2.4618642	58	3	1979-2000	0.61	M-v	2	Williams	39511	1979 MQ ₃
1979 MP ₄	15.5	0.15	20000226	274.45071	80.74413	214.33649	3.87486	0.0779543	2.6592084	19	4	1979-2000	0.86	M-v	2	Williams	31003	1979 MP ₄
1979 ML ₆	15.0	0.15	20000226	160.51426	188.42563	146.76660	4.62765	0.1426933	2.4058094	61	4	1979-2000	0.71	M-v	2	Williams	38751	1979 ML ₆
1979 MX ₈	14.5	0.15	20000226	93.15828	81.71589	218.27190	1.18006	0.0567836	2.8645065	43	3	1979-1999	0.57	M-v	4	Williams	36873	1979 MX ₈
1979 ON ₁	14.6	0.15	20000226	235.09688	187.35351	138.06347	6.18072	0.1235942	3.1387723	17	4	1979-2000	0.74	M-v	2	Williams	34822	1979 ON ₁
1979 OZ ₁₀	15.2	0.15	20000226	170.59004	29.66203	293.48933	17.18583	0.0659785	1.9558218	42	2	1979-2000	0.67	M-v	4	Williams	39511	1979 OZ ₁₀
1979 QX ₂	15.3	0.15	20000226	261.08105	315.68593	335.96632	2.90070	0.1976721	2.3607553	62	3	1979-2000	0.59	M-v	3	Williams	39511	1979 QX ₂
1979 SH	15.4	0.15	20000226	294.62898	50.71758	331.68576	5.19961	0.2762153	2.6058672	24	3	1979-1998	0.78	M-v	4	Williams	32738	1979 SH
1979 WY ₃	12.9	0.15	20000226	126.73924	342.58191	89.50832	10.30778	0.1358459	2.7901100	58	4	1979-2000	0.72	M-v	2	Williams	35415	1979 WY ₃
1979 XL	13.1	0.15	20000226	104.77331	8.03412	95.46786	10.06200	0.1086472	2.7886664	80	3	1979-2000	0.68	M-v	2	Williams	35057	1979 XL
1980 CJ	12.9	0.15	20000226	201.54221	210.71820	316.98511	13.57407	0.0285082	3.1419119	41	3	1980-1999	0.64	M-v	3	Williams	38018	1980 CJ
1980 EF	14.0	0.15	20000226	262.93113	195.04083	1.58809	9.87503	0.1578401	2.2790847	24	3	1980-2000	0.61	M-v	4	Williams	18804	1980 EF
1980 FQ ₁	13.6	0.15	20000226	88.65203	217.26790	183.81035	10.72035	0.1070387	2.9674592	71	3	1980-2000	0.65	M-v	3	Williams	39511	1980 FQ ₁
1980 FS ₄	13.1	0.15	20000226	159.04324	229.49180	178.94845	12.95288	0.1075411	2.8664625	29	3	1980-2000	0.61	M-v	4	Williams	34173	1980 FS ₄
1980 PT ₁	12.9	0.15	20000226	292.89145	327.78131	303.05141	8.53190	0.0864765	3.0696677	34	3	1980-2000	0.59	M-v	4	Williams	39511	1980 PT ₁
1980 PC ₃	13.2	0.15	20000226	204.27755	277.21251	64.83021	15.78835	0.2507674	2.6196725	62	3	1980-2000	0.67	M-v	3	Williams	39511	1980 PC ₃
1980 PE ₃	13.6	0.15	20000226	312.90573	208.83995	65.20045	15.67680	0.1608032	2.5574961	44	4	1980-2000	0.74	M-v	1	Williams	36062	1980 PE ₃
1980 RC	14.2	0.15	20000226	5.66213	240.76499	170.74759	11.03083	0.2652474	2.4293755	83	4	1954-1999	0.66	M-v	2	Williams	38018	1980 RC
1980 TZ ₅	12.1	0.15	20000226	14.35055	0.63346	13.28962	13.34150	0.1541626	2.8482946	54	3	1980-1999	0.59	M-v	2	Williams	38018	1980 TZ ₅
1980 XB	13.8	0.15	20000226	10.64382	40.96854	70.93876	23.88165	0.3732452	2.4337505	137	2	1980-2000	0.54	M-v	1	Williams	39511	1980 XB
1981 DN	15.6	0.15	20000226	351.82192	212.30789	306.49364	7.05335	0.2119555	2.4494946	71	3	1977-2000	0.72	M-v	2	Williams	39511	1981 DN
1981 DD ₁	14.9	0.15	20000226	322.30115	126.71650	332.38546	14.53714	0.1210547	2.5340775	42	2	1981-1999	0.78	M-v	4	Williams	36873	1981 DD ₁
1981 DR ₁	13.8	0.15	20000226	183.77317	42.76688	221.88654	12.53931	0.1433237	2.5331570	59	4	1981-2000	0.70	M-v	2	Williams	37619	1981 DR ₁

1981 DJ ₂	13.5	0.15	20000226	208.81292	150.82640	213.89183	14.75134	0.1458074	2.7842374	49	4	1981–2000	0.70	M-v	1	Williams	34281	1981 DJ ₂
1981 DV ₂	15.0	0.15	20000226	78.16105	245.56441	192.68176	22.36877	0.3019012	2.4208919	63	3	1981–2000	0.84	M-v	2	Williams	33540	1981 DV ₂
1981 DP ₃	13.8	0.15	19810225	281.88813	63.21412	220.81322	10.70667	0.2120370	3.0138167	4	1	8 days	0.35			Williams	30779	1981 DP ₃
1981 EK ₁	14.4	0.15	20000226	37.90212	130.37498	352.04410	8.28742	0.1090310	2.4264706	113	3	1981–2000	0.54	M-v	2	Williams	39511	1981 EK ₁
1981 EO ₂	13.3	0.15	20000226	170.10419	16.03818	237.29064	8.40561	0.0311062	2.9862828	116	3	1981–2000	0.66	M-v	3	Williams	38018	1981 EO ₂
1981 EU ₃	15.0	0.15	20000226	274.20236	310.71984	228.43293	9.36840	0.1167738	2.5098306	41	2	1981–1999	0.71	M-v	4	Williams	38018	1981 EU ₃
1981 ER ₄	13.4	0.15	20000226	342.99617	240.87589	211.91957	10.06469	0.1150811	2.9466098	112	3	1981–2000	0.61	M-v	3	Williams	38018	1981 ER ₄
1981 EH ₆	15.6	0.15	20000226	349.24567	235.41557	262.78271	4.08802	0.3558090	2.8671768	35	2	1981–2000	0.73	M-v	3	Williams	38751	1981 EH ₆
1981 EY ₆	13.9	0.15	20000226	25.22106	83.05141	307.93211	10.49792	0.1589861	2.9894430	37	2	1981–1999	0.61	M-v	4	Williams	38018	1981 EY ₆
1981 EB ₈	14.8	0.15	20000226	51.91098	113.64193	319.78619	7.63957	0.1614077	2.4605728	84	3	1981–2000	0.73	M-v	2	Williams	39511	1981 EB ₈
1981 EX ₈	14.2	0.15	20000226	145.23968	2.88278	294.13176	3.54675	0.1499107	2.5333587	53	3	1981–2000	0.84	M-v	3	Williams	38751	1981 EX ₈
1981 ED ₉	15.2	0.15	20000226	6.84439	184.61910	256.10607	4.38268	0.1062909	2.2051844	68	3	1981–2000	0.64	M-v	2	Williams	38018	1981 ED ₉
1981 EP ₉	15.0	0.15	20000226	141.12232	153.29454	235.79296	5.13826	0.1221039	2.4304344	66	4	1981–2000	0.83	M-v	3	Williams	39511	1981 EP ₉
1981 ED ₁₁	15.0	0.15	20000226	279.89995	307.39844	323.88143	7.70792	0.1973450	2.4405391	34	3	1978–2000	0.75	M-v	3	Williams	39511	1981 ED ₁₁
1981 EJ ₁₁	14.0	0.15	20000226	230.11501	5.71049	294.57702	3.71785	0.1753054	2.4555466	48	3	1981–2000	0.79	M-v	3	Williams	39511	1981 EJ ₁₁
1981 EV ₁₁	15.3	0.15	20000226	108.85402	109.53157	213.52084	7.38701	0.0514319	2.2286767	36	2	1981–1999	0.80	M-v	5	Williams	37620	1981 EV ₁₁
1981 EJ ₁₃	14.4	0.15	20000226	18.54310	147.28813	320.12094	7.94437	0.0984042	2.4717121	93	3	1981–2000	0.76	M-v	3	Williams	39511	1981 EJ ₁₃
1981 EN ₁₃	14.7	0.15	20000226	265.05402	271.02888	261.16028	4.36397	0.0813013	2.2234452	75	2	1981–2000	0.62	M-v	4	Williams	38018	1981 EN ₁₃
1981 EW ₁₃	14.8	0.15	20000226	22.88965	244.16215	271.28819	1.76858	0.0777762	2.4284901	68	6	1978–2000	0.74	M-v	1	Williams	33332	1981 EW ₁₃
1981 EC ₁₄	14.7	0.15	20000226	283.74933	285.54511	318.81877	4.03192	0.0799607	2.4484326	46	4	1979–2000	0.74	M-v	3	Williams	39511	1981 EC ₁₄
1981 EX ₁₄	14.7	0.15	20000226	298.69005	54.74543	206.75318	8.63291	0.1072923	2.8117046	59	4	1978–2000	0.69	M-v	2	Williams	30779	1981 EX ₁₄
1981 ED ₁₅	14.6	0.15	20000226	119.78192	125.55985	288.76338	3.08830	0.0813391	2.4308651	56	5	1949–2000	0.75	M-v	2	Williams	39511	1981 ED ₁₅
1981 EF ₁₆	14.5	0.15	20000226	6.17282	216.94699	197.35444	10.85708	0.1995058	2.5278569	92	3	1981–2000	0.58	M-v	2	Williams	38018	1981 EF ₁₆
1981 EC ₁₇	15.6	0.15	20000226	296.55413	245.25262	319.06128	3.75995	0.0649711	2.1816240	39	2	1981–2000	0.59	M-v	4	Williams	38751	1981 EC ₁₇
1981 ED ₁₈	13.7	0.15	20000226	311.64060	10.03105	193.88740	2.62936	0.0343854	2.8467732	83	3	1981–2000	0.72	M-v	4	Williams	39511	1981 ED ₁₈
1981 EZ ₂₁	13.9	0.15	20000226	269.91580	53.82341	204.48096	1.53521	0.0430913	2.8376597	61	3	1981–2000	0.66	M-v	3	Williams	39511	1981 EZ ₂₁
1981 EC ₂₂	15.7	0.15	20000226	350.86125	352.09075	174.61189	1.62892	0.0303035	2.1644974	57	4	1981–2000	0.70	M-v	2	Williams	39511	1981 EC ₂₂
1981 EG ₂₂	15.6	0.15	20000226	330.00876	226.22357	349.40849	9.88266	0.1980157	2.4324109	40	2	1981–2000	0.74	M-v	4	Williams	39140	1981 EG ₂₂
1981 EO ₂₂	16.0	0.15	20000226	340.91320	303.15718	278.61555	0.84471	0.1383739	2.4164124	28	4	1977–2000	0.88	M-v	2	Williams	27118	1981 EO ₂₂
1981 EY ₂₂	15.4	0.15	20000226	279.81532	91.46825	176.53568	3.29525	0.1374633	2.1557908	64	3	1981–2000	0.89	M-v	4	Williams	39140	1981 EY ₂₂
1981 EB ₂₃	13.8	0.15	20000226	179.81094	326.17744	24.92416	2.70379	0.2107540	2.4396091	84	5	1981–2000	0.81	M-v	2	Williams	39511	1981 EB ₂₃
1981 EO ₂₃	15.9	0.15	20000226	19.62689	169.62647	250.71630	0.97342	0.1063280	2.2106242	72	2	1981–2000	0.61	M-v	4	Williams	39141	1981 EO ₂₃
1981 EJ ₂₅	15.8	0.15	20000226	334.48874	45.08343	180.99237	2.40534	0.1721707	2.4219241	35	3	1977–2000	0.80	M-v	4	Williams	22697	1981 EJ ₂₅
1981 EU ₂₅	14.5	0.15	20000226	259.79067	124.32575	171.46936	4.95220	0.2174479	2.4378902	56	4	1978–2000	0.81	M-v	3	Williams	39512	1981 EU ₂₅
1981 EV ₂₅	13.4	0.15	20000226	220.75080	197.86691	173.99642	8.60644	0.1631504	2.7491337	30	4	1981–2000	0.74	M-v	2	Williams	35677	1981 EV ₂₅
1981 EW ₂₅	15.1	0.15	20000226	7.11207	111.27859	357.86514	12.59229	0.2145719	2.4687255	48	2	1981–2000	0.71	M-v	3	Williams	39512	1981 EW ₂₅
1981 EE ₂₆	15.7	0.15	20000226	343.81345	328.84192	190.27705	4.35215	0.1405267	2.4581979	43	3	1981–2000	0.64	M-v	4	Williams	39512	1981 EE ₂₆
1981 EN ₂₆	14.0	0.15	20000226	24.18810	358.08923	186.44447	8.14941	0.1560592	2.7856378	33	5	1978–2000	0.89	M-v	1	Williams	33540	1981 EN ₂₆
1981 ES ₂₆	14.8	0.15	20000226	301.45750	2.80352	209.30230	2.46234	0.1004070	2.4583262	83	3	1981–2000	0.70	M-v	4	Williams	39512	1981 ES ₂₆
1981 EV ₂₇	14.2	0.15	20000226	203.91956	180.61613	178.60450	4.88998	0.0623827	2.7935289	28	6	1978–2000	0.79	M-v	1	Williams	34003	1981 EV ₂₇
1981 EH ₂₈	14.8	0.15	20000226	44.50911	81.48937	26.22376	2.31854	0.0697401	2.4495007	83	3	1981–2000	0.76	M-v	3	Williams	39512	1981 EH ₂₈
1981 ES ₂₈	14.7	0.15	20000226	51.63514	133.62346	4.41838	5.80023	0.1351385	2.4137389	48	4	1981–2000	0.81	M-v	1	Williams	35677	1981 ES ₂₈
1981 ED ₃₀	14.0	0.15	20000226	33.42028	196.21347	265.17761	9.58205	0.0612737	3.4945739	20	2	1981–2000	0.69	M-v	5	Williams	38431	1981 ED ₃₀
1981 ET ₃₁	13.8	0.15	20000226	310.92108	267.15504	179.13974	9.54507	0.2353209	2.9868916	44	4	1981–1999	0.84	M-v	2	Williams	36325	1981 ET ₃₁
1981 EX ₃₁	13.1	0.15	20000226	158.67861	205.37498	176.92199	5.54422	0.1288948	2.8162635	79	3	1981–2000	0.63	M-v	3	Williams	39512	1981 EX ₃₁
1981 EA ₃₂	14.7	0.15	20000226	18.48733	161.32484	236.72538	10.26228	0.1119034	2.9886853	34	2	1981–1999	0.61	M-v	4	Williams	38018	1981 EA ₃₂
1981 EH ₃₂	15.5	0.15	20000226	171.71093	12.62238	226.57867	10.89850	0.0712397	3.0257095	21	2	1981–1999	0.52	M-v	4	Williams	38018	1981 EH ₃₂
1981 ES ₃₃	14.6	0.15	20000226	83.60749	13.97690	319.88033	6.50605	0.1640939	2.5533696	28	2	1981–2000	0.65	M-v	4	Williams	38018	1981 ES ₃₃
1981 EG ₃₄	15.1	0.15	20000226	153.06216	210.61544	193.77310	7.23954	0.0866730	2.4093124	38	4	1981–2000	0.83	M-v	3	Williams	33540	1981 EG ₃₄
1981 EW ₃₄	15.6	0.15	20000226	32.32270	131.85719	352.77482	7.30579	0.1128474	2.4382163	26	2	1981–2000	0.67	M-v	4	Williams	39141	1981 EW ₃₄
1981 EO ₃₅	15.5	0.15	20000226	66.56175	72.39802	266.77278	5.14516	0.1350870	2.2502336	58	4	1979–1999	0.68	M-v	3	Williams	36874	1981 EO ₃₅
1981 EE ₃₆	14.5	0.15	20000226	11.80328	79.01996	326.35023	9.33649	0.0677935	2.9955573	42	3	1981–1999	0.63	M-v	3	Williams	38018	1981 EE ₃₆
1981 EJ ₃₆	15.3	0.15	20000226	155.39411	18.26306	3.69268	2.07349	0.1975087	2.4178980	45	5	1981–2000	0.72	M-v	2	Williams	35678	1981 EJ ₃₆

1981 EP ₄₁	15.4	0.15	20000226	110.21567	62.48156	355.73665	2.46727	0.1713542	2.4248744	47	5	1981–2000	0.84	M-v	2	Williams	39512	1981 EP ₄₁
1981 EX ₄₂	15.7	0.15	20000226	44.07919	72.91561	359.35964	3.66375	0.1992840	2.4693800	39	3	1981–2000	0.50	M-v	4	Williams	39512	1981 EX ₄₂
1981 ED ₄₃	13.7	0.15	20000226	284.16452	293.36714	10.36458	7.62061	0.2186240	2.7901158	58	7	1954–2000	1.16	M-v	1	Williams	34003	1981 ED ₄₃
1981 EQ ₄₃	16.1	0.15	20000226	328.61800	35.20077	189.71601	1.25078	0.1351024	2.4250458	50	4	1977–2000	0.64	M-v	3	Williams	24406	1981 EQ ₄₃
1981 EA ₄₅	15.8	0.15	20000226	166.22410	335.69455	300.64086	5.21395	0.1619318	2.2313384	16	3	1981–1998	0.87	M-v	2	Williams	32214	1981 EA ₄₅
1981 EF ₄₅	15.0	0.15	20000226	160.91353	175.14155	52.67852	2.08146	0.1468841	3.0684086	30	4	1978–1999	0.76	M-v	2	Williams	36502	1981 EF ₄₅
1981 EW ₄₆	14.7	0.15	20000226	342.45874	41.74169	32.53505	0.84912	0.1225196	2.9707175	33	2	1981–1999	0.66	M-v	5	Williams	37621	1981 EW ₄₆
1981 EF ₄₇	15.0	0.15	20000226	344.89883	112.43191	7.17551	3.24086	0.0747425	2.9101243	18	5	1979–1999	0.71	M-v	2	Williams	38018	1981 EF ₄₇
1981 EG ₄₇	15.6	0.15	20000226	136.92940	350.39590	246.58006	2.61487	0.1238613	2.6050631	25	3	1981–1998	0.61	M-v	4	Williams	31711	1981 EG ₄₇
1981 EQ ₄₇	15.0	0.15	20000226	121.08210	279.77320	127.19352	1.65078	0.1526123	2.4297398	102	5	1981–2000	0.73	M-v	2	Williams	39512	1981 EQ ₄₇
1981 QW ₂	14.4	0.15	20000226	248.27589	271.50128	40.75904	3.72873	0.1769932	2.2111035	88	4	1981–2000	0.59	M-v	1	Williams	39512	1981 QW ₂
1981 QD ₄	12.9	0.15	20000226	241.12820	281.13071	328.79797	13.70704	0.0553179	2.5804868	43	4	1981–2000	0.56	M-v	1	Williams	39512	1981 QD ₄
1981 RR ₁	15.5	0.15	20000226	36.16326	193.43505	159.73730	10.47859	0.3098286	2.7227556	71	3	1981–1999	0.80	M-v	3	Williams	37256	1981 RR ₁
1981 RL ₂	13.6	0.15	20000226	70.65826	87.34186	290.10969	10.71440	0.2511061	2.6640235	76	4	1981–2000	0.52	M-v	1	Williams	39512	1981 RL ₂
1981 RW ₄	13.9	0.15	20000226	119.32515	334.05418	43.31390	3.88236	0.2250162	2.6135898	78	3	1981–2000	0.62	M-v	3	Williams	39512	1981 RW ₄
1981 TH ₃	14.1	0.15	20000226	269.47128	163.58171	171.49346	4.46743	0.2348175	2.1946559	29	5	1981–2000	0.66	M-v	2	Williams	34003	1981 TH ₃
1981 UQ ₂₂	14.5	0.15	20000226	137.76589	166.43801	130.79838	3.64818	0.0850933	2.3414943	82	4	1981–2000	0.62	M-v	1	Williams	38019	1981 UQ ₂₂
1981 UB ₂₃	13.5	0.15	20000226	42.28967	264.16286	129.72593	3.12071	0.1922280	2.7122204	74	5	1963–2000	0.61	M-v	3	Williams	39512	1981 UB ₂₃
1981 UC ₂₃	13.7	0.15	20000226	348.64868	304.83697	203.09560	8.77543	0.0336737	3.1692108	53	4	1981–2000	0.69	M-v	2	Williams	39512	1981 UC ₂₃
1981 UC ₂₆	13.5	0.15	20000226	166.05766	223.24504	159.59577	3.81491	0.1208728	3.0622879	45	6	1949–2000	0.54	M-v	1	Williams	38752	1981 UC ₂₆
1982 FJ ₃	15.0	0.15	20000226	339.45198	226.24396	1.78495	1.74819	0.1807426	2.3334530	49	4	1982–2000	0.66	M-v	2	Williams	39512	1982 FJ ₃
1982 JV ₁	15.4	0.15	20000226	50.75512	115.66336	95.81963	3.89918	0.1555194	2.2997216	24	4	1982–1999	0.52	M-v	2	Williams	38432	1982 JV ₁
1982 QP	13.9	0.15	20000226	190.86507	18.58815	301.67899	11.50050	0.1972765	2.4780140	39	3	1982–2000	0.66	M-v	3	Williams	39512	1982 QP
1982 RK ₁	13.4	0.15	20000226	228.30995	357.43137	297.75705	4.23125	0.1063065	2.4714303	67	4	1982–2000	0.58	M-v	3	Williams	39512	1982 RK ₁
1982 SW ₃	14.1	0.15	20000226	184.77168	176.46397	202.45088	5.82122	0.2201189	2.1592008	59	5	1982–2000	0.79	M-v	2	Williams	34574	1982 SW ₃
1982 TJ	14.9	0.15	20000226	62.41336	273.87639	99.75244	2.17587	0.3913254	2.5876595	69	3	1982–2000	0.50	M-v	2	Williams	38752	1982 TJ
1982 UR ₂	13.8	0.15	20000226	226.77015	283.65347	190.05390	18.65892	0.1372352	2.7572658	36	3	1982–1998	0.74	M-v	3	Williams	36325	1982 UR ₂
1982 UA ₆	15.1	0.15	20000226	30.53552	35.49909	341.08830	3.91614	0.2933386	2.6317249	75	3	1982–2000	0.59	M-v	2	Williams	38019	1982 UA ₆
1982 US ₆	13.2	0.15	20000226	129.93365	323.18428	46.71679	8.06645	0.1573966	2.5351790	135	7	1982–2000	0.67	M-v	2	Williams	39512	1982 US ₆
1982 UF ₇	12.6	0.15	20000226	212.34360	146.89927	218.24717	8.20377	0.1642516	2.9123528	53	6	1982–2000	0.76	M-v	1	Williams	34282	1982 UF ₇
1982 UU ₈	14.1	0.15	20000226	212.67782	93.84012	245.00089	8.25103	0.2652471	2.4593299	24	5	1982–2000	1.06	M-v	2	Williams	33739	1982 UU ₈
1982 UH ₉	14.3	0.15	20000226	52.15283	343.81296	9.36037	7.88181	0.3413264	2.6214902	92	3	1982–2000	0.55	M-v	2	Williams	38752	1982 UH ₉
1982 UE ₁₂	13.6	0.15	20000226	93.88668	84.95407	328.66593	9.79310	0.0210104	2.5170511	156	8	1982–2000	0.67	M-v	2	Williams	39512	1982 UE ₁₂
1982 VU ₂	12.7	0.15	20000226	154.51460	209.24228	54.98929	14.31497	0.1416401	2.6342841	95	3	1982–2000	0.54	M-v	3	Williams	38019	1982 VU ₂
1982 VN ₃	15.2	0.15	20000226	54.73928	327.30305	88.38198	3.70402	0.2294427	2.5851106	39	4	1982–2000	0.67	M-v	2	Williams	38432	1982 VN ₃
1982 VB ₄	13.9	0.15	20000226	34.89592	77.47314	57.57170	3.88220	0.1415059	2.5351811	91	5	1978–2000	0.54	M-v	3	Williams	39512	1982 VB ₄
1982 VF ₄	15.0	0.15	20000226	188.68756	165.39500	206.20835	3.30862	0.2054765	2.1593573	71	5	1982–2000	0.65	M-v	2	Williams	33739	1982 VF ₄
1982 VG ₄	15.0	0.15	20000226	278.06268	300.49096	209.14845	3.57169	0.1129541	2.2859936	79	4	1982–2000	0.67	M-v	1	Williams	38019	1982 VG ₄
1982 VL ₄	13.5	0.15	20000226	161.24394	317.21292	62.80045	13.98343	0.1486338	2.9718284	36	3	1982–2000	0.59	M-v	3	Williams	39512	1982 VL ₄
1983 RL	14.7	0.15	20000226	49.46051	28.95196	339.92459	19.06854	0.1178673	1.9193280	143	4	1983–1999	0.58	M-v	2	Williams	37256	1983 RL
1984 SA	14.0	0.15	20000226	189.41679	77.66966	254.35245	5.87209	0.2220061	2.2846675	75	4	1984–2000	0.61	M-v	3	Williams	39512	1984 SA
1984 SL ₄	15.0	0.15	20000226	258.21951	327.78241	338.59448	4.41080	0.2206676	2.2361559	35	3	1984–2000	0.69	M-v	5	Williams	38432	1984 SL ₄
1984 SN ₄	14.6	0.15	20000226	236.24829	7.64891	337.88560	1.49480	0.2108487	2.6183621	43	4	1980–2000	0.53	M-v	2	Williams	34003	1984 SN ₄
1984 SP ₄	14.5	0.15	20000226	290.07778	81.11063	303.14872	5.08471	0.2521960	2.5301218	27	3	1984–1998	0.51	M-v	4	Williams	35678	1984 SP ₄
1984 SR ₅	12.7	0.15	20000226	221.64623	342.72390	17.53984	5.47404	0.1112728	3.2414080	68	5	1984–2000	0.68	M-v	1	Williams	34574	1984 SR ₅
1984 ST ₅	14.6	0.15	20000226	43.34544	35.27205	342.66545	1.76064	0.1887006	2.3977340	119	4	1984–2000	0.61	M-v	2	Williams	38019	1984 ST ₅
1984 SG ₆	13.4	0.15	20000226	328.86674	238.92917	169.96409	12.85894	0.1864429	2.9718834	73	2	1984–1999	0.57	M-v	4	Williams	38019	1984 SG ₆
1984 UR	13.4	0.15	20000226	131.07277	306.81351	48.62713	7.23963	0.1834432	2.3331746	58	5	1984–2000	0.79	M-v	2	Williams	39512	1984 UR
1984 WJ ₁	13.0	0.15	20000226	146.24372	351.41709	34.58848	10.75744	0.2045737	2.3202077	97	4	1984–2000	0.67	M-v	2	Williams	39512	1984 WJ ₁
1985 CD ₂	13.7	0.15	20000226	255.78585	284.56401	281.16218	0.56347	0.1940281	3.0425753	68	4	1985–1999	0.60	M-v	1	Williams	38019	1985 CD ₂
1985 CF ₂	14.2	0.15	20000226	14.63717	359.66011	175.79213	9.32176	0.1648095	2.3856317	54	4	1985–2000	0.74	M-v	2	Williams	35679	1985 CF ₂
1985 CL ₂	14.5	0.15	20000226	334.51086	18.59595	163.31985	1.61463	0.1241598	2.4167706	122	4	1985–2000	0.69	M-v	2	Williams	39512	1985 CL ₂
1985 PF	13.5	0.15	20000226	156.62770	205.80534	155.39537	16.56844	0.2313522	2.5848038	39	3	1985–2000	0.70	M-v	4	Williams	39512	1985 PF

1985 PH	13.8	0.15	20000226	32.58681	67.83022	316.65314	12.49675	0.2819701	2.7489874	58	3	1985–2000	0.60	M-v	2	Williams	38752	1985 PH
1985 QP	14.8	0.15	20000226	167.78054	0.61014	357.86107	3.14630	0.1769638	2.1860670	131	5	1971–2000	0.77	M-v	2	Williams	39513	1985 QP
1985 QF ₁	13.3	0.15	20000226	90.44443	156.95093	289.47712	12.43669	0.1311252	2.5638837	33	3	1985–2000	0.75	M-v	3	Williams	35679	1985 QF ₁
1985 QL ₅	14.9	0.15	20000226	161.16653	309.88779	349.03514	3.55535	0.2298834	2.2255693	18	3	1985–2000	0.61	M-v	5	Williams	37622	1985 QL ₅
1985 QD ₆	14.9	0.15	20000226	194.09646	225.38474	121.87259	5.17755	0.2950746	2.5538859	31	5	1985–2000	0.97	M-v	2	Williams	39513	1985 QD ₆
1985 RQ	14.6	0.15	20000226	221.33095	329.73304	18.44774	6.38621	0.2960018	2.5234183	60	8	1973–2000	0.66	M-v	2	Williams	34004	1985 RQ
1985 RB ₃	14.3	0.15	20000226	155.78486	21.62187	10.19943	5.35299	0.3204009	2.5743264	58	4	1981–2000	0.75	M-v	1	Williams	34004	1985 RB ₃
1985 RN ₃	14.7	0.15	20000226	185.47691	342.12263	353.67896	4.63082	0.1587564	2.1798214	86	3	1985–2000	0.66	M-v	3	Williams	39513	1985 RN ₃
1985 RJ ₄	13.2	0.15	20000226	236.62192	309.30500	34.10233	2.25760	0.2062685	3.1212792	59	6	1974–2000	0.64	M-v	2	Williams	35679	1985 RJ ₄
1985 SG ₃	12.1	0.15	20000226	232.64606	94.04648	227.50136	12.24697	0.2486569	3.1735707	43	5	1985–2000	0.59	M-v	1	Williams	39513	1985 SG ₃
1985 TS	14.2	0.15	20000226	61.66368	359.31344	5.39399	3.78783	0.1247581	2.2939791	111	5	1978–2000	0.59	M-v	2	Williams	39513	1985 TS
1986 AB	12.5	0.15	20000226	127.88393	54.74261	310.99649	13.72694	0.2006746	2.7357325	89	5	1986–2000	0.74	M-v	2	Williams	39141	1986 AB
1986 PP	14.8	0.15	20000226	67.99266	233.98652	123.24845	2.87734	0.2329318	2.5887004	88	5	1982–2000	0.52	M-v	1	Williams	37622	1986 PP
1986 PU ₁	14.8	0.15	20000226	208.95436	324.02831	28.01249	1.97558	0.1988529	2.4038144	85	7	1975–2000	0.55	M-v	1	Williams	30288	1986 PU ₁
1986 QM	14.3	0.15	20000226	251.40927	359.78559	298.43938	1.99857	0.1662369	2.3939776	85	4	1986–2000	0.67	M-v	2	Williams	39513	1986 QM
1986 QR ₁	13.8	0.15	20000226	246.83063	289.27412	351.76957	4.34814	0.0951538	2.4276962	77	4	1986–2000	0.63	M-v	3	Williams	39513	1986 QR ₁
1986 QT ₁	14.2	0.15	20000226	165.02409	20.78170	17.51733	2.50396	0.2171543	2.4211782	71	5	1986–2000	0.58	M-v	2	Williams	34004	1986 QT ₁
1986 QW ₁	13.7	0.15	20000226	160.55601	235.20748	72.72078	1.73801	0.1760624	3.1727080	69	3	1986–2000	0.54	M-v	4	Williams	37622	1986 QW ₁
1986 QY ₁	13.5	0.15	20000226	128.74603	201.85651	165.10029	1.57605	0.1405088	3.1317017	87	5	1981–2000	0.53	M-v	1	Williams	39141	1986 QY ₁
1986 QY ₃	15.2	0.15	20000226	218.66923	210.60697	120.42309	3.64191	0.1853721	2.4154719	52	3	1986–2000	0.62	M-v	4	Williams	30651	1986 QY ₃
1986 TR	13.6	0.15	20000226	42.77719	89.66890	251.53075	9.76705	0.3058960	2.6720972	127	3	1986–2000	0.50	M-v	2	Williams	38020	1986 TR
1986 TG ₁	13.2	0.15	20000226	115.45912	357.35409	359.09387	14.94010	0.1264231	2.5642032	72	5	1986–2000	0.61	M-v	2	Williams	39513	1986 TG ₁
1986 TR ₁₁	13.9	0.15	20000226	276.88111	72.50108	238.87855	8.79490	0.2768952	2.3794392	41	4	1986–2000	0.70	M-v	1	Williams	34004	1986 TR ₁₁
1986 WZ	13.8	0.15	20000226	30.93679	129.17153	256.13153	2.66251	0.1174337	2.6924292	105	3	1990–2000	0.41	M-v	2	Williams	38752	1986 WZ
1986 WC ₁	13.4	0.15	20000226	139.90600	338.71980	57.52601	2.61175	0.1648941	3.1863459	31	3	1986–2000	0.52	M-v	3	Williams	20500	1986 WC ₁
1986 XR ₅	12.7	0.15	20000226	195.12677	338.46550	31.94884	4.16035	0.2944478	3.0771442	39	4	1986–2000	0.79	M-v	2	Williams	34283	1986 XR ₅
1987 BF	14.3	0.15	20000226	196.05114	302.00398	293.32472	5.07146	0.1286204	2.2793531	59	3	1987–2000	0.75	M-v	4	Williams	38020	1987 BF
1987 BX ₁	13.3	0.15	20000226	282.80726	261.41520	241.58244	6.61423	0.1685733	2.7967743	73	3	1987–2000	0.60	M-v	3	Williams	38752	1987 BX ₁
1987 CH	14.2	0.15	20000226	9.29374	351.74421	147.31638	5.43009	0.0747822	2.2031045	124	3	1987–2000	0.57	M-v	2	Williams	39513	1987 CH
1987 DL ₆	14.6	0.15	20000226	247.37654	186.60438	351.69021	7.33807	0.1347075	2.2993854	71	3	1987–1999	0.64	M-v	4	Williams	39142	1987 DL ₆
1987 KH ₅	14.1	0.15	20000226	330.96174	125.56349	137.66801	14.01825	0.1725320	2.6380352	19	4	1987–2000	0.60	M-v	2	Williams	35600	1987 KH ₅
1987 QM	13.0	0.15	20000226	237.29841	11.48578	334.51461	17.11749	0.2732452	2.8030357	43	5	1987–2000	0.76	M-v	2	Williams	34283	1987 QM
1987 QW	14.0	0.15	20000226	65.30609	80.41742	203.11418	12.42597	0.1897476	2.5384239	28	2	1987–1999	0.70	M-v	4	Williams	36503	1987 QW
1987 QC ₃	14.2	0.15	20000226	173.85769	77.48634	307.66908	5.72612	0.1237989	2.2929401	55	4	1987–2000	0.85	M-v	1	Williams	33740	1987 QC ₃
1987 RL ₁	15.3	0.15	20000226	215.65380	189.27284	131.11577	1.27319	0.2359271	2.3117539	66	3	1987–2000	0.62	M-v	4	Williams	39513	1987 RL ₁
1987 SF	14.9	0.15	20000226	165.89835	243.13951	139.79815	4.73681	0.2327686	2.3260874	33	3	1987–2000	0.75	M-v	4	Williams	34004	1987 SF
1987 SP ₁	14.1	0.15	20000226	217.53987	355.40429	352.41688	5.30019	0.1786401	2.2943032	48	6	1955–2000	0.58	M-v	1	Williams	39513	1987 SP ₁
1987 SD ₁₃	14.7	0.15	20000226	124.84067	333.66707	65.19816	1.92683	0.1933049	2.3636608	100	3	1987–2000	0.80	M-v	3	Williams	39513	1987 SD ₁₃
1987 SR ₁₇	14.7	0.15	20000226	224.65175	135.47716	216.94643	4.50474	0.2355835	2.2828167	23	4	1987–2000	0.88	M-v	2	Williams	34004	1987 SR ₁₇
1987 UX	14.4	0.15	20000226	144.39487	159.90523	205.35064	24.44652	0.2441252	2.3850003	75	3	1987–2000	0.75	M-v	2	Williams	39513	1987 UX
1987 UA ₁	13.6	0.15	20000226	169.73569	122.69554	235.90569	11.37536	0.1406365	2.3618846	93	3	1987–2000	0.76	M-v	3	Williams	39513	1987 UA ₁
1987 UE ₁	14.6	0.15	20000226	184.92948	188.84867	196.22804	24.72351	0.1926511	2.3109575	24	3	1987–2000	0.66	M-v	3	Williams	31273	1987 UE ₁
1987 WP	13.4	0.15	20000226	29.88018	293.66579	234.19261	21.08673	0.2789873	2.4031540	36	3	1987–2000	0.59	M-v	3	Williams	35679	1987 WP
1987 WF ₁	13.6	0.15	20000226	174.07124	133.19543	233.56578	23.00359	0.2779173	2.3537414	48	4	1987–2000	0.60	M-v	1	Williams	33740	1987 WF ₁
1988 AX ₁	13.1	0.15	20000226	329.18317	161.32931	307.47556	12.95597	0.1525137	2.5984910	101	2	1987–2000	0.79	M-v	3	Williams	38753	1988 AX ₁
1988 BG	12.9	0.15	20000226	348.41418	126.48915	293.35004	12.35227	0.1613117	2.6243978	91	2	1988–1999	0.71	M-v	3	Williams	38753	1988 BG
1988 BO ₃	13.9	0.15	20000226	344.62603	263.82697	195.05668	8.30551	0.1254118	2.5760401	91	4	1988–2000	0.65	M-v	2	Williams	38753	1988 BO ₃
1988 BF ₅	14.1	0.15	20000226	231.95312	330.18151	243.98266	10.69681	0.1365277	2.6628503	67	3	1988–1999	0.67	M-v	2	Williams	38020	1988 BF ₅
1988 BJ ₅	13.5	0.15	20000226	261.31237	226.31297	281.10707	12.04477	0.0635348	2.7136289	58	2	1988–1999	0.56	M-v	3	Williams	37257	1988 BJ ₅
1988 BL ₅	14.1	0.15	20000226	79.68733	145.60579	282.93228	11.83708	0.1196513	2.5211882	46	5	1984–2000	0.67	M-v	3	Williams	39513	1988 BL ₅
1988 CU	13.5	0.15	20000226	59.54877	336.10443	139.97691	24.82200	0.2163333	2.4638344	26	2	1988–2000	0.86	M-v	4	Williams	39142	1988 CU
1988 CY	12.7	0.15	20000226	341.10380	82.45577	144.12287	15.25431	0.1107752	3.1861548	57	4	1984–2000	0.64	M-v	1	Williams	39513	1988 CY
1988 CB ₄	15.2	0.15	20000226	9.14790	126.44979	277.58993	6.70131	0.0841415	2.1727804	66	2	1988–1999	0.63	M-v	4	Williams	38020	1988 CB ₄

1988 CS ₅	14.5	0.15	20000226	31.50122	96.13946	300.72514	10.23242	0.1941502	2.6282040	44	2	1988–2000	0.71	M-v	3	Williams	38753	1988 CS ₅
1988 CR ₇	14.6	0.15	20000226	343.65550	133.18056	90.74502	2.61788	0.1464723	2.4294384	22	3	1988–2000	0.72	M-v	4	Williams	33926	1988 CR ₇
1988 DA ₅	12.9	0.15	20000226	244.57009	147.78095	183.45329	22.39256	0.0352718	3.1277528	17	3	1988–2000	0.60	M-v	4	Williams	33926	1988 DA ₅
1988 FE ₃	13.5	0.15	20000226	193.42229	317.55843	248.55659	1.48972	0.1000993	2.7930589	64	4	1988–1999	0.60	M-v	1	Williams	38020	1988 FE ₃
1988 NU	13.9	0.15	20000226	239.31923	95.60931	229.51677	4.68952	0.2089761	2.6390950	53	4	1988–2000	0.56	M-v	2	Williams	30894	1988 NU
1988 PA	17.0	0.15	20000226	248.05504	136.95889	162.43406	8.19343	0.4067086	2.1460687	19	1	111 days	1.08	M-v	5	Williams	29133	1988 PA
1988 PV ₁	14.3	0.15	20000226	90.81263	79.91761	289.26056	4.57460	0.1674186	2.2906951	63	3	1988–2000	0.58	M-v	2	Williams	38753	1988 PV ₁
1988 QR	13.9	0.15	20000226	135.65581	31.06651	270.06260	4.09271	0.1616234	2.9116885	63	4	1988–2000	0.81	M-v	4	Williams	38020	1988 QR
1988 QZ	15.4	0.15	20000226	42.50242	8.99462	336.05743	12.54484	0.3405206	2.3871680	81	2	1988–1999	0.55	M-v	2	Williams	37257	1988 QZ
1988 RN ₂	13.7	0.15	20000226	90.33567	193.38214	263.41244	5.92935	0.1592938	2.7797048	32	4	1979–2000	0.69	M-v	2	Williams	33675	1988 RN ₂
1988 RJ ₄	13.6	0.15	20000226	223.48899	150.80949	204.40681	2.14812	0.0948522	2.6560392	57	3	1988–2000	0.57	M-v	3	Williams	34004	1988 RJ ₄
1988 RN ₄	13.3	0.15	20000226	330.10000	279.65062	336.81604	11.19105	0.2586434	2.5860984	36	4	1983–2000	0.69	M-v	1	Marsden	31004	1988 RN ₄
1988 RZ ₅	14.3	0.15	20000226	56.50745	166.15124	170.79680	3.36959	0.1142379	2.3645889	173	4	1988–1999	0.70	M-v	2	Williams	37258	1988 RZ ₅
1988 RK ₆	14.5	0.15	20000226	107.91329	175.79548	180.41742	6.66444	0.1412359	2.2845574	53	5	1988–2000	0.77	M-v	1	Williams	37624	1988 RK ₆
1988 RO ₆	14.2	0.15	20000226	21.76630	32.41681	350.00871	6.20856	0.1346388	2.3592585	136	2	1988–1999	0.54	M-v	3	Williams	38020	1988 RO ₆
1988 RH ₈	14.6	0.15	20000226	41.44153	27.53458	341.18649	4.95096	0.1837596	2.3647351	95	4	1988–2000	0.61	M-v	2	Williams	37624	1988 RH ₈
1988 RL ₁₂	14.4	0.15	20000226	13.12519	195.71692	203.65508	0.38395	0.1819735	3.0765397	87	3	1988–1999	0.60	M-v	3	Williams	38020	1988 RL ₁₂
1988 RO ₁₂	12.9	0.15	20000226	15.47653	42.66448	103.24555	0.61570	0.0257008	3.9427907	41	3	1988–2000	0.49	M-v	4	Williams	39142	1988 RO ₁₂
1988 RA ₁₃	14.6	0.15	20000226	266.98967	84.68840	194.70845	4.45754	0.1476726	2.1678515	74	3	1988–2000	0.57	M-v	3	Williams	39513	1988 RA ₁₃
1988 SU ₁	13.1	0.15	20000226	230.37144	148.96765	41.37520	11.52434	0.0368426	3.0004408	85	2	1988–2000	0.50	M-v	3	Williams	38753	1988 SU ₁
1988 SB ₂	13.9	0.15	20000226	123.08597	248.78979	111.60403	6.70942	0.1333584	2.2628752	84	3	1988–2000	0.59	M-v	2	Williams	39513	1988 SB ₂
1988 TU	14.2	0.15	20000226	44.64938	180.25462	224.20559	2.96832	0.2214985	2.3441998	80	4	1981–2000	0.71	M-v	2	Williams	39513	1988 TU
1988 TN ₁	13.3	0.15	20000226	219.17945	342.38203	21.07294	13.51002	0.1694383	2.6972528	36	6	1979–2000	0.78	M-v	1	Williams	39514	1988 TN ₁
1988 TR ₂	13.0	0.15	20000226	27.40846	38.30032	26.47718	15.61066	0.2702058	3.0440207	87	3	1988–2000	0.70	M-v	2	Williams	39514	1988 TR ₂
1988 VJ ₁	13.7	0.15	20000226	152.87619	118.68292	235.30185	5.09985	0.2183994	2.2613580	85	3	1988–2000	0.72	M-v	2	Williams	39514	1988 VJ ₁
1988 VP ₃	15.2	0.15	20000226	137.59160	17.54889	34.18227	6.05735	0.1250035	2.2315208	78	5	1981–2000	0.81	M-v	2	Williams	33741	1988 VP ₃
1988 VT ₃	14.4	0.15	20000226	82.17262	216.84247	245.92860	3.98723	0.1145765	2.2524434	67	4	1988–2000	0.82	M-v	2	Williams	34575	1988 VT ₃
1988 VM ₅	14.7	0.15	20000226	171.86213	268.51027	120.03628	2.20743	0.2730700	2.7691924	41	5	1988–2000	0.72	M-v	2	Williams	34284	1988 VM ₅
1988 VS ₆	13.0	0.15	20000226	136.85379	211.88806	209.44568	4.90494	0.2391397	3.9550161	77	7	1951–2000	0.73	M-v	0	Williams	35059	1988 VS ₆
1988 XV ₁	12.3	0.15	20000226	56.47713	301.20742	73.14596	19.35017	0.2385695	3.1097738	74	2	1988–2000	0.63	M-v	3	Williams	39514	1988 XV ₁
1988 XW ₄	13.5	0.15	20000226	115.73430	213.26534	201.47043	1.56203	0.0525003	2.8774921	77	3	1988–2000	0.66	M-v	5	Williams	39142	1988 XW ₄
1989 AA	14.7	0.15	20000226	13.97988	249.41419	264.65657	18.11992	0.0831369	1.9313645	25	3	1989–2000	0.96	M-v	3	Marsden	39514	1989 AA
1989 AD ₇	12.6	0.15	20000226	127.50343	263.48051	140.36098	10.96391	0.1192577	3.0026729	60	3	1988–2000	0.66	M-v	3	Williams	39514	1989 AD ₇
1989 BB	13.1	0.15	20000226	342.69753	168.20222	322.12619	9.39622	0.1537401	2.4071043	70	4	1978–2000	0.55	M-v	3	Williams	38753	1989 BB
1989 BH	13.7	0.15	20000226	0.82525	47.79588	109.32359	10.03100	0.1722544	2.3608592	98	3	1989–2000	0.64	M-v	2	Williams	39514	1989 BH
1989 CQ	14.8	0.15	20000226	20.71690	138.10704	43.82436	3.88889	0.0777437	2.2839345	29	5	1989–2000	0.73	M-v	2	Williams	34488	1989 CQ
1989 CR ₁	14.4	0.15	20000226	339.53546	311.27807	262.36790	8.53007	0.1645202	2.3313301	48	3	1989–2000	0.77	M-v	3	Williams	35680	1989 CR ₁
1989 CO ₂	13.2	0.15	20000226	322.62310	293.28294	269.21644	10.56505	0.0717499	3.0646813	55	2	1989–2000	0.58	M-v	4	Williams	39143	1989 CO ₂
1989 CY ₂	15.2	0.15	20000226	91.55236	216.91931	220.44189	5.16192	0.1357954	2.3222405	64	4	1989–2000	0.82	M-v	2	Williams	33067	1989 CY ₂
1989 CC ₃	13.1	0.15	20000226	95.47480	88.96052	287.02322	14.28896	0.2517256	3.1293130	57	3	1989–2000	0.64	M-v	3	Williams	39514	1989 CC ₃
1989 CF ₃	14.9	0.15	20000226	340.33737	312.32815	243.15343	6.50092	0.0460545	2.3376205	40	3	1989–2000	0.71	M-v	4	Williams	39514	1989 CF ₃
1989 CH ₅	11.8	0.15	20000226	45.68081	280.01281	139.97229	17.74452	0.1285823	3.1830549	38	2	1989–2000	0.50	M-v	4	Williams	39143	1989 CH ₅
1989 CA ₆	13.1	0.15	20000226	297.06234	234.58962	321.63049	16.14939	0.1060382	3.1668493	39	3	1989–2000	0.72	M-v	3	Williams	39143	1989 CA ₆
1989 CB ₆	15.3	0.15	20000226	9.63022	7.40247	113.35126	2.26058	0.1384790	2.3923765	71	3	1989–2000	0.49	M-v	3	Williams	38753	1989 CB ₆
1989 DB	13.8	0.15	20000226	341.98096	150.79332	35.40492	3.33379	0.1738875	2.3730914	126	4	1978–2000	0.73	M-v	2	Williams	39514	1989 DB
1989 EB ₁	12.5	0.15	20000226	357.79671	162.26752	330.17909	17.04114	0.0947412	3.1389280	59	4	1989–2000	0.70	M-v	2	Williams	39514	1989 EB ₁
1989 EV ₂	14.6	0.15	20000226	38.03749	221.41982	245.48220	5.95634	0.0744131	2.3665065	26	2	1989–2000	0.83	M-v	5	Williams	38434	1989 EV ₂
1989 GB	13.4	0.15	20000226	328.29133	171.85107	40.90073	13.63206	0.0660449	3.0911619	63	3	1989–2000	0.78	M-v	3	Williams	39514	1989 GB
1989 GK ₁	14.5	0.15	20000226	272.62316	297.64048	3.15726	9.23432	0.0728154	2.3962523	36	4	1989–2000	0.78	M-v	2	Williams	28315	1989 GK ₁
1989 GM ₁	13.5	0.15	20000226	78.71420	130.32139	219.54400	11.78421	0.2087125	2.6094877	93	3	1989–2000	0.66	M-v	1	Williams	39514	1989 GM ₁
1989 GQ ₁	14.5	0.15	20000226	255.99293	72.77033	248.94958	2.09130	0.1921074	2.3712976	46	4	1979–2000	0.75	M-v	1	Williams	33741	1989 GQ ₁
1989 GR ₁	14.6	0.15	20000226	327.02748	225.96410	217.01402	13.59674	0.0641227	2.6057556	69	3	1989–1999	0.73	M-v	3	Williams	38434	1989 GR ₁
1989 GF ₃	15.3	0.15	20000226	280.70971	15.29990	223.50767	4.14256	0.1600431	2.4434237	24	2	1989–1998	0.67	M-v	5	Williams	38434	1989 GF ₃

1989 GH ₃	14.4	0.15	20000226	9.80466	301.65559	216.78118	7.75048	0.1268078	2.3915501	68	3	1989-2000	0.74	M-v	3	Williams	39514	1989 GH ₃
1989 GN ₃	12.6	0.15	20000226	6.96988	306.34503	186.86240	12.13710	0.1860976	3.1941335	89	3	1989-2000	0.61	M-v	2	Williams	39514	1989 GN ₃
1989 GJ ₈	13.3	0.15	20000226	26.06659	337.09473	48.31573	8.03133	0.0775660	2.5851367	76	3	1989-2000	0.45	M-v	2	Williams	37625	1989 GJ ₈
1989 LH	14.3	0.15	20000226	331.36095	13.06154	225.46508	10.03896	0.2186903	2.3975303	43	4	1989-2000	0.75	M-v	3	Williams	39514	1989 LH
1989 QH	14.8	0.15	20000226	105.91275	28.40681	306.88096	2.78499	0.1507535	2.1714270	70	4	1989-2000	0.67	M-v	1	Williams	38754	1989 QH
1989 RX	12.8	0.15	20000226	113.33827	131.54909	237.14657	7.16959	0.2002087	2.6892531	96	3	1989-2000	0.63	M-v	2	Williams	39514	1989 RX
1989 SD	14.5	0.15	20000226	103.00754	343.41895	30.22771	2.35923	0.1490731	2.1517604	77	4	1989-2000	0.55	M-v	2	Williams	39514	1989 SD
1989 SE	14.1	0.15	20000226	207.77363	347.19566	8.12030	7.62538	0.2895115	2.5472102	50	6	1981-2000	0.78	M-v	2	Williams	34005	1989 SE
1989 SX	14.2	0.15	20000226	195.60342	354.93153	27.91370	6.68561	0.3016223	2.5585905	88	6	1989-2000	0.89	M-v	2	Williams	34005	1989 SX
1989 SM ₁	14.1	0.15	20000226	37.94865	238.18673	135.76232	3.53986	0.1696190	2.9026898	72	4	1989-2000	0.57	M-v	2	Williams	38021	1989 SM ₁
1989 SO ₁	14.0	0.15	20000226	50.02315	53.00748	81.11100	5.09440	0.1236696	2.6341347	40	4	1989-2000	0.78	M-v	2	Williams	36064	1989 SO ₁
1989 SP ₁	14.0	0.15	20000226	22.67372	54.97969	131.76259	5.04513	0.0857445	2.5637589	34	3	1989-2000	0.90	M-v	3	Williams	34005	1989 SP ₁
1989 SO ₂	16.0	0.15	20000226	126.97868	260.13032	85.73958	2.52096	0.1400257	2.1529542	29	2	1989-2000	0.64	M-v	4	Williams	38434	1989 SO ₂
1989 SZ ₂	14.5	0.15	20000226	180.05019	191.16861	179.94381	10.87920	0.1809551	2.5953690	52	4	1989-2000	0.75	M-v	2	Williams	39514	1989 SZ ₂
1989 SY ₃	15.4	0.15	20000226	343.43209	200.24230	106.84434	3.36052	0.1994521	2.3889867	30	3	1989-1996	0.98	M-v	5	Williams	27710	1989 SY ₃
1989 SQ ₅	16.2	0.15	20000226	50.72650	189.65178	174.45855	5.57103	0.1879769	2.2334021	52	2	1989-1999	0.72	M-v	4	Williams	37258	1989 SQ ₅
1989 SW ₈	13.4	0.15	20000226	130.34386	189.41999	183.14849	13.40818	0.1904914	2.6742625	91	5	1989-2000	0.65	M-v	2	Williams	39514	1989 SW ₈
1989 SK ₁₀	14.8	0.15	20000226	151.26585	111.94514	266.69153	0.61305	0.1754347	2.6149891	44	4	1989-2000	0.66	M-v	1	Williams	39514	1989 SK ₁₀
1989 TQ	14.0	0.15	20000226	93.65320	61.20531	242.33703	5.55937	0.2140417	2.2227405	78	4	1989-2000	0.69	M-v	1	Williams	39144	1989 TQ
1989 TT	14.3	0.15	20000226	172.63491	221.28109	173.39374	16.95701	0.2795891	2.5974822	44	6	1989-2000	0.73	M-v	2	Williams	34005	1989 TT
1989 TR ₂	12.2	0.15	20000226	353.37390	28.96624	51.95480	13.84276	0.1289763	2.9031426	92	2	1989-2000	0.51	M-v	3	Williams	38754	1989 TR ₂
1989 TA ₄	14.6	0.15	20000226	49.43789	4.67248	55.74495	5.13868	0.0896561	2.7869087	43	3	1989-2000	1.00	M-v	3	Williams	38754	1989 TA ₄
1989 TA ₆	13.9	0.15	20000226	78.37969	226.53701	116.29245	3.26879	0.0586458	2.8723900	44	3	1989-1999	0.75	M-v	3	Williams	34489	1989 TA ₆
1989 TR ₁₁	13.5	0.15	20000226	170.51205	324.56121	14.47675	12.79859	0.1974134	2.6470533	77	4	1979-2000	0.68	M-v	2	Williams	39514	1989 TR ₁₁
1989 TN ₁₅	15.3	0.15	20000226	25.66415	32.54652	345.77126	2.98424	0.1540476	2.2475354	77	3	1989-1999	0.58	M-v	2	Williams	37258	1989 TN ₁₅
1989 TG ₁₆	16.1	0.15	20000226	318.45235	149.37994	195.04178	0.90350	0.2059953	2.3757120	20	2	1989-1999	0.39	M-v	6	Williams	38434	1989 TG ₁₆
1989 TP ₁₆	13.1	0.15	20000226	287.80862	6.20275	52.56269	2.02254	0.1437915	3.1100924	39	4	1989-1999	0.67	M-v	1	Williams	26167	1989 TP ₁₆
1989 US ₁	13.2	0.15	20000226	165.76938	339.40783	31.88202	13.86841	0.2347788	2.6373251	64	4	1989-2000	0.79	M-v	3	Williams	39514	1989 US ₁
1989 UW ₃	13.5	0.15	20000226	214.46043	119.13111	235.00824	12.34340	0.1941247	2.5799191	31	4	1989-2000	0.73	M-v	2	Williams	34284	1989 UW ₃
1989 UN ₇	14.8	0.15	20000226	160.42663	302.39844	74.66078	1.78130	0.0819106	2.6584083	55	4	1989-2000	0.80	M-v	3	Williams	39145	1989 UN ₇
1989 VR ₁	14.5	0.15	20000226	357.42544	302.88221	152.79687	6.15825	0.1192586	2.2241774	69	2	1989-2000	0.71	M-v	3	Williams	39514	1989 VR ₁
1989 WH	14.1	0.15	20000226	87.83394	196.96891	223.82952	8.62554	0.1442833	2.7595715	71	3	1989-2000	0.79	M-v	3	Williams	39514	1989 WH
1989 WU	13.9	0.15	20000226	15.92475	174.26285	270.37638	4.95833	0.1547847	2.2317979	114	4	1989-2000	0.61	M-v	2	Williams	39514	1989 WU
1989 WA ₁	13.8	0.15	20000226	310.01858	59.97382	69.72891	9.88027	0.0634066	2.2553830	75	5	1967-2000	0.63	M-v	2	Williams	38754	1989 WA ₁
1989 WU ₁	13.7	0.15	20000226	223.01393	110.86686	227.13851	9.93660	0.2782534	2.5908101	48	4	1972-2000	0.76	M-v	2	Williams	31784	1989 WU ₁
1989 WY ₁	12.6	0.15	20000226	114.92705	302.78605	75.50073	15.21544	0.1902009	2.7752730	52	3	1989-2000	0.68	M-v	3	Williams	39514	1989 WY ₁
1989 WD ₃	13.4	0.15	20000226	63.70655	228.03578	241.99222	5.07707	0.1491491	2.7350352	101	4	1989-2000	0.66	M-v	2	Williams	39514	1989 WD ₃
1989 YO ₂	14.9	0.15	20000226	53.84848	313.17887	110.29240	6.60399	0.1388597	2.2359585	67	2	1989-2000	0.60	M-v	4	Williams	38754	1989 YO ₂
1989 YE ₄	14.7	0.15	20000226	334.42293	1.27071	126.27028	5.85344	0.0987327	2.2799107	49	3	1989-2000	0.61	M-v	4	Williams	38754	1989 YE ₄
1989 YB ₅	11.8	0.15	20000226	176.11778	161.83214	59.83293	16.71050	0.1107845	3.1762224	64	4	1989-2000	0.63	M-v	1	Williams	39145	1989 YB ₅
1990 BH	14.7	0.15	20000226	336.90719	56.27927	125.42425	24.68008	0.3708025	2.2404091	54	2	1990-2000	0.55	M-v	3	Williams	38435	1990 BH
1990 DZ	13.4	0.15	20000226	329.80175	218.72845	338.00703	9.58911	0.1724994	2.9381589	88	4	1990-2000	0.52	M-v	2	Williams	39514	1990 DZ
1990 DA ₂	13.4	0.15	20000226	168.92068	234.04235	165.13318	6.13647	0.0544420	2.7581432	41	5	1988-2000	0.64	M-v	1	Williams	35681	1990 DA ₂
1990 DU ₄	14.4	0.15	20000226	342.42190	269.58485	186.80667	2.63722	0.1438817	2.3384974	61	4	1990-2000	0.53	M-v	1	Williams	38022	1990 DU ₄
1990 EB	13.6	0.15	20000226	233.30445	54.02262	150.07665	12.08545	0.1492603	2.3759339	58	3	1990-2000	0.69	M-v	3	Williams	38754	1990 EB
1990 ET ₁	15.0	0.15	20000226	40.50670	162.34355	284.11356	5.45291	0.1219433	2.2679813	48	3	1990-2000	0.50	M-v	2	Williams	39514	1990 ET ₁
1990 EV ₁	13.9	0.15	20000226	285.82854	329.88897	189.05220	9.16542	0.1321798	2.3477822	85	3	1990-2000	0.62	M-v	2	Williams	38754	1990 EV ₁
1990 EQ ₂	15.1	0.15	20000226	79.11925	216.08772	254.60342	3.53025	0.0886069	2.1894735	59	5	1990-2000	0.70	M-v	1	Williams	33742	1990 EQ ₂
1990 FV ₁	15.8	0.15	20000226	32.76292	112.51230	29.80539	24.27378	0.2120788	1.8258875	43	3	1990-2000	0.50	M-v	2	Williams	29297	1990 FV ₁
1990 HW	14.1	0.15	20000226	196.79286	154.59408	73.69294	23.28518	0.0613877	1.9516869	27	2	1990-2000	0.75	M-v	4	Williams	37626	1990 HW
1990 HZ ₁	13.5	0.15	20000226	329.09502	3.74262	131.00583	15.21661	0.1766067	3.0963397	41	2	1990-2000	0.49	M-v	3	Williams	39514	1990 HZ ₁
1990 OK	14.1	0.15	20000226	219.39986	95.49214	249.88117	6.77476	0.1976797	2.3373863	39	4	1990-2000	0.74	M-v	2	Williams	35681	1990 OK
1990 OY	13.6	0.15	20000226	105.40828	188.72804	154.70146	14.11861	0.2024473	2.5486485	33	4	1986-2000	0.68	M-v	2	Williams	39514	1990 OY

1990 OB ₁	13.6	0.15	20000226	283.29050	37.85051	231.64546	8.63024	0.2122043	2.3284536	46	3	1990–2000	0.62	M-v	3	Williams	39514	1990 OB ₁
1990 OR ₃	13.5	0.15	20000226	226.76454	335.88574	324.95842	5.62704	0.0970042	2.3875391	91	3	1990–2000	0.52	M-v	2	Williams	39515	1990 OR ₃
1990 QA ₁	14.4	0.15	20000226	283.14552	60.71833	238.65027	3.15541	0.1857665	2.3121174	23	3	1989–2000	0.57	M-v	3	Williams	30653	1990 QA ₁
1990 QF ₄	13.6	0.15	20000226	101.44120	319.27047	150.83916	7.25319	0.0649547	2.3542683	49	3	1990–2000	0.81	M-v	3	Williams	35681	1990 QF ₄
1990 QK ₄	14.6	0.15	20000226	196.16955	203.49747	157.31701	2.65260	0.2186254	2.3825348	42	4	1990–2000	0.54	M-v	2	Williams	28885	1990 QK ₄
1990 QM ₄	13.9	0.15	20000226	332.02303	123.39485	138.22718	5.22922	0.1412426	2.2862157	32	6	1979–2000	0.67	M-v	1	Williams	34006	1990 QM ₄
1990 QU ₄	14.0	0.15	20000226	284.78565	251.19644	63.98259	6.59110	0.1924405	2.2865470	46	4	1990–2000	0.77	M-v	2	Williams	39515	1990 QU ₄
1990 QX ₅	14.2	0.15	20000226	23.92055	68.81186	332.28848	11.89583	0.2686501	2.6716375	52	3	1990–2000	0.65	M-v	2	Williams	38754	1990 QX ₅
1990 QY ₅	13.9	0.15	20000226	43.37949	26.20627	332.77161	12.53465	0.1885338	2.6828818	79	2	1990–2000	0.60	M-v	3	Williams	38754	1990 QY ₅
1990 QT ₆	14.7	0.15	20000226	275.93256	239.72916	3.74663	1.98270	0.1413066	2.4110430	62	4	1990–2000	0.58	M-v	4	Williams	39515	1990 QT ₆
1990 QE ₇	14.0	0.15	20000226	22.24961	319.45795	142.95656	2.13638	0.1208829	2.5339979	133	5	1990–2000	0.67	M-v	2	Williams	39515	1990 QE ₇
1990 QM ₇	14.4	0.15	20000226	269.54878	278.77352	2.98315	6.16666	0.1074681	2.3666546	67	3	1990–2000	0.53	M-v	3	Williams	39515	1990 QM ₇
1990 QN ₇	14.0	0.15	20000226	270.09001	225.98880	37.84319	2.72435	0.1913132	2.3784009	81	5	1990–2000	0.58	M-v	2	Williams	39515	1990 QN ₇
1990 QK ₉	14.5	0.15	20000226	266.88088	147.85564	138.75913	7.11560	0.1188050	2.3565137	32	4	1990–2000	0.65	M-v	3	Williams	31378	1990 QK ₉
1990 QJ ₁₀	14.5	0.15	20000226	252.01839	358.21819	10.62882	1.98800	0.0981503	3.0615629	24	3	1990–1999	0.64	M-v	4	Williams	38435	1990 QJ ₁₀
1990 RF ₁	12.9	0.15	20000226	295.23263	56.42534	225.53706	0.85981	0.2054103	3.1643139	52	4	1990–2000	0.50	M-v	1	Williams	36065	1990 RF ₁
1990 RW ₄	12.6	0.15	20000226	293.76026	344.65674	303.10171	4.18474	0.1484898	3.1750918	33	5	1990–2000	0.64	M-v	1	Williams	34006	1990 RW ₄
1990 RV ₅	14.1	0.15	20000226	302.01584	291.48187	345.12690	4.71942	0.1506639	2.3033832	31	4	1990–2000	0.79	M-v	2	Williams	39515	1990 RV ₅
1990 RA ₇	14.2	0.15	20000226	357.68292	51.90738	164.36015	10.08073	0.2258087	2.3094186	40	5	1989–2000	0.84	M-v	1	Williams	33544	1990 RA ₇
1990 RB ₇	14.7	0.15	20000226	80.76076	212.45016	152.03955	5.02115	0.1708151	2.5944492	39	3	1990–2000	0.61	M-v	4	Williams	39145	1990 RB ₇
1990 RA ₈	15.8	0.15	20000226	190.96451	353.01284	7.31029	2.53204	0.1885708	2.3934938	40	4	1990–2000	0.77	M-v	2	Williams	33544	1990 RA ₈
1990 RT ₈	15.2	0.15	20000226	192.34817	158.08462	153.82983	3.03375	0.2112667	2.4527884	24	5	1990–2000	0.55	M-v	2	Williams	38755	1990 RT ₈
1990 RX ₈	14.3	0.15	20000226	312.99031	110.86781	247.22309	4.97389	0.1935172	2.2003646	22	3	1990–1999	0.65	M-v	3	Williams	25649	1990 RX ₈
1990 RN ₉	13.6	0.15	20000226	47.69183	72.78341	304.98258	10.90035	0.2502828	2.6474815	47	4	1976–2000	0.66	M-v	1	Williams	39146	1990 RN ₉
1990 RU ₉	13.6	0.15	20000226	127.90386	154.44813	150.49732	10.99378	0.1780835	2.5637281	38	3	1990–2000	0.57	M-v	3	Williams	39515	1990 RU ₉
1990 SE ₁	14.0	0.15	20000226	173.30638	304.51068	346.57329	13.02849	0.1737550	2.5464755	35	4	1990–1999	0.65	M-v	1	Williams	38022	1990 SE ₁
1990 SC ₃	14.6	0.15	20000226	218.73909	187.68241	124.46172	4.63930	0.1826807	2.4254422	41	4	1975–2000	0.60	M-v	3	Williams	39515	1990 SC ₃
1990 SS ₃	13.6	0.15	20000226	39.05651	34.77387	2.55818	11.36422	0.3117176	2.6751481	55	4	1933–2000	0.65	M-v	1	Williams	38022	1990 SS ₃
1990 SX ₃	13.1	0.15	20000226	96.80179	60.17352	308.31430	12.31882	0.2179641	2.5847845	113	3	1990–2000	0.52	M-v	2	Williams	39515	1990 SX ₃
1990 SY ₃	13.3	0.15	20000226	65.28906	85.46051	275.18129	11.10637	0.2006310	2.6661606	58	3	1990–2000	0.48	M-v	3	Williams	38755	1990 SY ₃
1990 SE ₄	13.5	0.15	20000226	282.08239	278.52418	213.54888	1.24162	0.0063673	2.7029913	113	4	1990–2000	0.49	M-v	1	Williams	38022	1990 SE ₄
1990 SO ₆	15.1	0.15	20000226	246.14915	194.47048	95.44482	3.31215	0.2154982	2.3962448	43	3	1990–2000	0.71	M-v	4	Williams	39146	1990 SO ₆
1990 ST ₇	14.4	0.15	20000226	45.22805	350.35878	58.92980	3.98156	0.1696789	2.6168361	37	3	1990–2000	0.63	M-v	3	Williams	39515	1990 ST ₇
1990 ST ₈	14.9	0.15	20000226	244.72439	278.34069	52.01434	3.52172	0.1908102	2.3465905	39	5	1971–2000	0.49	M-v	1	Williams	33544	1990 ST ₈
1990 SW ₈	13.8	0.15	20000226	3.55585	206.00316	160.68835	12.06024	0.1362600	2.7897105	78	3	1990–1999	0.63	M-v	2	Williams	38755	1990 SW ₈
1990 SE ₉	15.5	0.15	20000226	90.22833	290.20475	61.97485	5.29619	0.1436377	2.6101569	25	3	1990–2000	0.58	M-v	3	Williams	32445	1990 SE ₉
1990 SB ₁₃	14.8	0.15	19900906	11.94154	134.82117	193.66989	0.42074	0.2362105	2.4110527	12	1	3 days	0.37		E	Williams	34179	1990 SB ₁₃
1990 SM ₁₄	13.4	0.15	20000226	226.12450	186.30461	142.86542	4.23258	0.2220995	2.3891254	67	4	1990–2000	0.63	M-v	2	Williams	39515	1990 SM ₁₄
1990 SU ₁₆	13.5	0.15	20000226	197.33357	175.16892	110.12153	6.22243	0.1288042	2.4717465	84	3	1990–2000	0.51	M-v	3	Williams	38755	1990 SU ₁₆
1990 SK ₂₈	13.7	0.15	20000226	132.86335	19.14937	346.91178	2.50703	0.1561580	2.5232672	134	4	1990–2000	0.55	M-v	2	Williams	39515	1990 SK ₂₈
1990 TT	13.5	0.15	20000226	3.04484	23.34748	12.46112	8.50361	0.0592112	2.7697036	81	4	1986–1999	0.68	M-v	2	Williams	38023	1990 TT
1990 TG ₂	14.6	0.15	20000226	9.12827	27.07334	9.78628	12.89746	0.1935379	2.7482045	82	2	1990–2000	0.62	M-v	3	Williams	38023	1990 TG ₂
1990 TF ₆	14.6	0.15	20000226	3.60743	87.45431	328.57764	8.78953	0.3429933	2.7205685	62	2	1990–2000	0.49	M-v	3	Williams	38023	1990 TF ₆
1990 TH ₇	13.7	0.15	20000226	256.93991	314.79124	6.20240	1.00446	0.2322645	3.2861460	43	7	1954–2000	0.55	M-v	1	Williams	35061	1990 TH ₇
1990 TF ₉	14.4	0.15	20000226	67.33815	95.58413	225.31786	8.29439	0.1859463	2.7397098	102	3	1990–1999	0.64	M-v	2	Williams	38436	1990 TF ₉
1990 TS ₉	13.8	0.15	20000226	259.05564	181.25134	344.96752	7.17748	0.1426255	2.7261772	61	3	1990–1999	0.62	M-v	3	Williams	38023	1990 TS ₉
1990 TS ₁₀	16.7	0.15	20000226	244.23729	32.68487	314.88823	1.82191	0.1773699	2.3442956	20	4	1979–1999	0.53	M-v	2	Williams	38436	1990 TS ₁₀
1990 TX ₁₁	14.7	0.15	20000226	127.46942	127.07594	283.12651	1.80223	0.1866899	2.4669716	27	3	1990–2000	0.72	M-v	4	Williams	35682	1990 TX ₁₁
1990 UM	14.0	0.15	20000226	18.62716	305.71317	70.64354	10.93906	0.3166399	2.7605526	48	3	1990–1999	0.77	M-v	2	Williams	37259	1990 UM
1990 UR	13.9	0.15	20000226	190.02389	27.37727	337.88410	1.97286	0.2075193	2.4222575	56	9	1971–2000	0.68	M-v	1	Williams	33743	1990 UR
1990 UC ₁	13.5	0.15	20000226	238.99530	301.30079	9.07792	10.29519	0.2157727	2.3953918	89	3	1990–2000	0.56	M-v	3	Williams	39515	1990 UC ₁
1990 UC ₂	13.9	0.15	20000226	169.39175	277.84496	82.14524	9.29162	0.1645012	2.4558920	52	3	1990–2000	0.74	M-v	3	Williams	39515	1990 UC ₂
1990 UQ ₂	13.3	0.15	20000226	211.76257	325.69106	43.77603	8.47470	0.2251899	2.3917392	64	4	1990–2000	0.68	M-v	2	Williams	34286	1990 UQ ₂

1990 UJ ₄	13.1	0.15	20000226	289.23896	192.79274	63.68184	11.13753	0.1240563	2.4453554	66	4	1989–2000	0.58	M-v	3	Williams	39515	1990 UJ ₄
1990 US ₄	13.5	0.15	20000226	304.49719	218.03068	76.56660	7.07435	0.1951755	2.3310178	38	4	1990–2000	0.65	M-v	2	Williams	39515	1990 US ₄
1990 UY ₄	15.2	0.15	20000226	259.56936	276.73109	88.32681	6.24653	0.1888603	2.3091264	26	4	1990–1999	0.79	M-v	2	Williams	35419	1990 UY ₄
1990 UE ₅	15.2	0.15	20000226	228.00668	130.61738	201.38381	21.23995	0.0881463	1.9326710	75	3	1990–2000	0.68	M-v	3	Williams	39515	1990 UE ₅
1990 UK ₅	14.5	0.15	20000226	72.77937	301.46394	112.73169	6.01906	0.2289955	2.5986221	67	3	1990–2000	0.69	M-v	2	Williams	39515	1990 UK ₅
1990 VE	12.7	0.15	20000226	9.00312	345.13868	70.56135	6.93154	0.1810201	2.7628397	104	3	1990–2000	0.55	M-v	2	Williams	38755	1990 VE
1990 VV ₁	13.4	0.15	20000226	152.52712	174.91554	215.05857	9.67649	0.2004144	2.4843326	42	5	1982–2000	0.70	M-v	3	Williams	34286	1990 VV ₁
1990 VX ₁	14.4	0.15	20000226	324.16241	124.49053	249.56742	1.57684	0.2155965	2.2118598	28	3	1990–1999	0.57	M-v	4	Williams	22592	1990 VX ₁
1990 VY ₁	13.6	0.15	20000226	65.74335	179.66849	209.87550	11.39274	0.2516034	2.6618834	58	3	1990–2000	0.66	M-v	2	Williams	38436	1990 VY ₁
1990 VV ₂	13.1	0.15	20000226	10.69770	176.40741	227.13015	8.60692	0.1587262	2.7683790	91	2	1990–2000	0.55	M-v	3	Williams	38755	1990 VV ₂
1990 VH ₃	14.6	0.15	20000226	77.14672	164.85426	267.06153	3.56090	0.2715497	2.5853504	77	3	1990–2000	0.67	M-v	2	Williams	39515	1990 VH ₃
1990 VE ₄	13.7	0.15	20000226	8.05270	16.03051	53.55055	12.51605	0.2177639	2.7452275	97	3	1990–2000	0.53	M-v	2	Williams	38755	1990 VE ₄
1990 VK ₄	14.8	0.15	20000226	119.59904	268.41950	137.50727	5.36236	0.1834305	2.5274258	40	4	1990–2000	0.75	M-v	3	Williams	33743	1990 VK ₄
1990 VH ₅	15.0	0.15	20000226	160.34069	286.77675	102.98917	8.34086	0.1368070	2.4752528	26	3	1990–2000	0.71	M-v	3	Williams	33930	1990 VH ₅
1990 VN ₅	14.2	0.15	20000226	163.10589	260.21861	83.67930	15.74748	0.1659669	2.5387724	39	4	1990–2000	0.63	M-v	1	Williams	38755	1990 VN ₅
1990 VE ₆	13.4	0.15	20000226	292.18660	202.37847	202.20606	10.50121	0.0901456	3.0163007	32	4	1990–1999	0.77	M-v	2	Williams	35061	1990 VE ₆
1990 VP ₆	12.6	0.15	20000226	172.69272	122.39471	203.19993	12.74095	0.0608214	2.5894854	125	4	1990–2000	0.60	M-v	2	Williams	39515	1990 VP ₆
1990 VD ₈	14.6	0.15	20000226	56.05385	85.40916	290.14913	3.43290	0.2819936	2.6838409	53	3	1990–2000	0.45	M-v	3	Williams	38023	1990 VD ₈
1990 VW ₈	13.5	0.15	20000226	41.00728	238.65581	222.89719	12.96062	0.1635524	2.5887078	72	3	1990–2000	0.61	M-v	2	Williams	39515	1990 VW ₈
1990 WD	14.4	0.15	20000226	298.68869	227.79830	92.41480	7.18256	0.2175136	2.2792170	27	4	1990–1999	0.77	M-v	1	Williams	35682	1990 WD
1990 WG ₁	13.9	0.15	20000226	19.19040	3.89160	69.02610	22.88876	0.0385295	2.6912265	73	2	1990–2000	0.55	M-v	3	Williams	38755	1990 WG ₁
1990 WZ ₁	14.5	0.15	20000226	275.52004	145.97487	160.29603	5.31430	0.1943177	2.3842030	41	6	1949–2000	0.75	M-v	1	Williams	33743	1990 WZ ₁
1990 WD ₂	14.0	0.15	20000226	88.11158	8.95105	103.27751	7.31913	0.0793179	2.4772337	74	6	1990–2000	0.72	M-v	1	Williams	34286	1990 WD ₂
1990 WR ₂	13.8	0.15	20000226	102.03541	335.46565	94.06562	8.99712	0.2500419	2.5425549	68	5	1979–2000	0.73	M-v	2	Williams	39515	1990 WR ₂
1990 WE ₉	14.7	0.15	20000226	207.22154	197.90022	155.63527	2.69166	0.1845655	2.4234958	27	6	1986–2000	0.68	M-v	2	Williams	33545	1990 WE ₉
1990 YP	14.0	0.15	20000226	2.47811	175.34598	303.01289	13.31346	0.2643834	2.7544785	63	3	1990–2000	0.61	M-v	2	Williams	38755	1990 YP
1990 YR	13.0	0.15	20000226	31.82092	10.35220	29.69350	7.36098	0.1853649	2.7848760	88	3	1990–2000	0.63	M-v	2	Williams	38755	1990 YR
1991 AK ₁	14.4	0.15	20000226	20.63538	191.15284	269.09814	3.40440	0.2791830	2.7224132	79	2	1991–2000	0.45	M-v	3	Williams	39515	1991 AK ₁
1991 AE ₂	13.3	0.15	20000226	97.79872	267.22938	150.23082	14.12612	0.1448117	2.5649819	62	3	1991–2000	0.53	M-v	2	Williams	39515	1991 AE ₂
1991 AF ₂	14.0	0.15	20000226	62.45765	246.23302	184.96003	12.23824	0.1593878	2.6215506	79	3	1990–2000	0.69	M-v	1	Williams	39515	1991 AF ₂
1991 AL ₂	13.6	0.15	20000226	63.82937	296.27949	194.68078	12.45025	0.1718271	2.5268453	39	4	1985–2000	0.80	M-v	2	Williams	35682	1991 AL ₂
1991 BJ ₂	14.1	0.15	20000226	75.33329	89.51792	28.80900	3.57286	0.1684970	2.5901426	23	4	1991–2000	0.81	M-v	3	Williams	34286	1991 BJ ₂
1991 CL	12.4	0.15	20000226	320.07788	50.42043	128.66101	13.92955	0.1574937	2.7648024	68	5	1989–2000	0.69	M-v	2	Williams	39515	1991 CL
1991 CJ ₁	14.1	0.15	20000226	160.95005	279.69990	126.59319	10.90816	0.0711369	2.5582157	57	5	1991–2000	0.63	M-v	2	Williams	35682	1991 CJ ₁
1991 CM ₁	14.6	0.15	20000226	161.37024	166.29503	294.83228	3.04334	0.1382195	2.4596001	22	3	1991–1999	0.67	M-v	3	Williams	31100	1991 CM ₁
1991 EX ₂	14.9	0.15	20000226	304.81908	99.14026	345.72097	8.04057	0.0055860	2.2650060	88	3	1991–1999	0.65	M-v	1	Williams	37260	1991 EX ₂
1991 EO ₅	13.1	0.15	20000226	5.82287	222.04594	167.73188	10.46123	0.1134325	3.0567701	82	4	1991–1999	0.54	M-v	1	Williams	38023	1991 EO ₅
1991 FQ ₂	14.4	0.15	20000226	325.09835	218.29899	1.05499	4.60178	0.1294530	2.7111357	69	3	1991–2000	0.47	M-v	3	Williams	39515	1991 FQ ₂
1991 FU ₃	14.8	0.15	20000226	240.57820	191.30923	16.03854	4.75395	0.0759374	2.1957985	75	2	1991–1999	0.57	M-v	4	Williams	38023	1991 FU ₃
1991 FW ₃	13.2	0.15	20000226	227.63221	136.18201	172.85313	5.29124	0.0150962	2.7482883	99	4	1991–2000	0.47	M-v	1	Williams	39515	1991 FW ₃
1991 GW ₂	13.6	0.15	20000226	170.07981	166.92406	63.51716	1.88438	0.1076360	3.2159351	46	3	1991–1999	0.69	M-v	4	Williams	37627	1991 GW ₂
1991 GO ₄	13.6	0.15	20000226	277.71205	293.87482	27.39548	11.36801	0.1917496	2.6577532	30	6	1979–2000	0.87	M-v	1	Williams	35683	1991 GO ₄
1991 GU ₄	13.2	0.15	20000226	291.46384	123.94527	16.49362	9.14993	0.0765773	3.0589424	95	3	1991–1999	0.67	M-v	3	Williams	37260	1991 GU ₄
1991 GS ₆	14.3	0.15	20000226	345.99518	44.60459	23.57672	9.83797	0.0962458	2.2627389	92	3	1991–1999	0.69	M-v	2	Williams	38023	1991 GS ₆
1991 GO ₇	15.4	0.15	20000226	10.59361	12.75492	225.46183	8.12445	0.1381210	2.6146370	22	3	1991–1999	0.74	M-v	4	Williams	33931	1991 GO ₇
1991 GO ₈	15.0	0.15	20000226	28.05173	270.95711	324.46050	2.70114	0.0901792	2.5781050	24	3	1991–1999	0.61	M-v	4	Williams	35683	1991 GO ₈
1991 GA ₁₀	12.1	0.15	20000226	310.96205	129.04268	112.17193	16.10055	0.1746954	2.7773302	32	3	1991–2000	0.71	M-v	3	Williams	33931	1991 GA ₁₀
1991 GR ₁₀	13.4	0.15	20000226	348.29963	63.66648	42.71077	10.93485	0.0647496	2.9654781	40	3	1991–2000	0.48	M-v	3	Williams	38437	1991 GR ₁₀
1991 GH ₁₁	14.1	0.15	20000226	267.09893	2.59681	144.11058	2.44144	0.2011947	3.0964268	37	4	1980–1999	0.57	M-v	1	Williams	36507	1991 GH ₁₁
1991 JW ₁	12.1	0.15	20000226	103.50161	216.28838	149.50441	23.57982	0.0398797	3.0427153	53	3	1990–2000	0.67	M-v	2	Williams	39516	1991 JW ₁
1991 LF ₂	12.8	0.15	20000226	102.69338	230.84539	186.73631	1.81384	0.0953104	2.9292277	76	5	1980–2000	0.54	M-v	1	Williams	39516	1991 LF ₂
1991 NK ₄	13.9	0.15	20000226	215.40182	176.44876	123.19532	6.78331	0.2080923	2.2168311	81	3	1991–2000	0.59	M-v	3	Williams	39516	1991 NK ₄
1991 NV ₆	13.4	0.15	20000226	149.36994	36.11026	308.05293	6.55269	0.1377919	3.1704900	40	3	1991–2000	0.74	M-v	4	Williams	39516	1991 NV ₆

1991 PK	15.5	0.15	20000226	191.17637	211.65790	153.89457	2.69362	0.1970158	2.2033646	42	6	1978–2000	0.65	M-v	1	Williams	33545	1991 PK
1991 PX ₄	13.4	0.15	20000226	231.31777	116.75513	161.47457	1.46429	0.1470230	3.1038562	53	2	1991–2000	0.65	M-v	4	Williams	39147	1991 PX ₄
1991 PF ₅	14.6	0.15	20000226	257.04086	295.89156	312.43518	4.62195	0.1215563	2.2336918	107	3	1991–2000	0.69	M-v	2	Williams	39516	1991 PF ₅
1991 PE ₆	12.8	0.15	20000226	245.96645	257.20313	27.36751	2.63398	0.1569080	3.0466847	79	3	1991–2000	0.63	M-v	2	Williams	39516	1991 PE ₆
1991 PD ₁₁	14.3	0.15	20000226	253.70595	135.09543	141.62410	6.34464	0.1990392	2.2076083	103	3	1991–2000	0.65	M-v	2	Williams	39516	1991 PD ₁₁
1991 PP ₁₁	13.5	0.15	20000226	285.17929	121.86772	185.65893	9.56195	0.3029133	2.8895746	43	5	1980–2000	0.57	M-v	1	Williams	34007	1991 PP ₁₁
1991 PT ₁₁	13.1	0.15	20000226	168.96820	204.01210	180.72546	3.67130	0.2233868	3.1122104	46	4	1991–2000	0.65	M-v	1	Williams	34007	1991 PT ₁₁
1991 PO ₁₂	13.8	0.15	20000226	102.83558	273.49165	145.84193	5.11752	0.1711572	2.2689884	108	3	1991–2000	0.72	M-v	2	Williams	39516	1991 PO ₁₂
1991 PD ₁₃	15.1	0.15	20000226	13.27449	346.18333	344.63779	2.78941	0.2186081	2.5971080	19	3	1987–1994	0.53	M-v	4	Williams	24104	1991 PD ₁₃
1991 PP ₁₃	12.6	0.15	20000226	187.38403	41.20199	328.93116	10.81557	0.1110381	3.0543681	49	3	1991–2000	0.60	M-v	3	Williams	39516	1991 PP ₁₃
1991 PS ₁₄	15.4	0.15	20000226	207.09722	319.71365	354.73224	4.19625	0.1966964	2.2308586	34	3	1991–2000	0.71	M-v	4	Williams	39147	1991 PS ₁₄
1991 PJ ₁₇	15.3	0.15	20000226	257.43291	63.56113	255.28921	2.00671	0.1417122	2.1537417	18	4	1991–2000	0.67	M-v	3	Williams	33743	1991 PJ ₁₇
1991 PG ₁₈	12.9	0.15	20000226	169.63120	47.38234	281.90027	2.07273	0.2379653	3.2451980	31	3	1991–2000	0.63	M-v	4	Williams	39516	1991 PG ₁₈
1991 RA	14.4	0.15	20000226	174.38445	310.34070	356.88017	21.12279	0.0411532	1.8531285	63	3	1991–2000	0.51	M-v	3	Williams	39516	1991 RA
1991 RV	14.9	0.15	20000226	115.60523	228.89728	127.92280	2.93316	0.2366451	2.3635272	40	3	1991–2000	0.62	M-v	4	Williams	38756	1991 RV
1991 RH ₁	15.6	0.15	20000226	142.49480	5.75144	359.27786	5.16271	0.2023953	2.2992125	59	3	1991–2000	0.64	M-v	3	Williams	39516	1991 RH ₁
1991 RC ₂	14.0	0.15	20000226	86.00259	82.98477	333.26572	7.38227	0.1267339	2.3200416	129	3	1991–2000	0.54	M-v	1	Williams	39516	1991 RC ₂
1991 RF ₂	12.2	0.15	20000226	129.28886	102.64109	329.21543	10.03192	0.0609983	3.0986162	48	5	1986–2000	0.77	M-v	1	Williams	35062	1991 RF ₂
1991 RQ ₂	16.5	0.15	20000226	125.08143	186.41949	203.51038	5.39982	0.2294740	2.3134291	21	4	1977–2000	0.55	M-v	3	Williams	34578	1991 RQ ₂
1991 RY ₂	14.9	0.15	20000226	73.91582	61.33588	280.03233	3.83755	0.1378859	2.4808306	72	2	1991–2000	0.51	M-v	4	Williams	38024	1991 RY ₂
1991 RK ₃	13.8	0.15	20000226	10.13519	56.34623	345.48840	13.08143	0.1653222	2.5229486	61	5	1977–2000	0.65	M-v	2	Williams	38024	1991 RK ₃
1991 RN ₄	14.3	0.15	20000226	83.58759	226.72666	159.20620	6.27902	0.2318930	2.3806567	96	3	1991–2000	0.63	M-v	3	Williams	39516	1991 RN ₄
1991 RQ ₄	14.0	0.15	20000226	352.21047	119.11233	318.56192	3.83334	0.0661194	2.4887834	71	3	1991–2000	0.71	M-v	2	Williams	38024	1991 RQ ₄
1991 RS ₄	16.1	0.15	20000226	115.32898	24.41775	322.28803	1.73796	0.2355746	2.3859564	29	2	1991–2000	0.33	M-v	5	Williams	37628	1991 RS ₄
1991 RQ ₅	14.0	0.15	20000226	163.24866	231.78317	24.84248	6.48812	0.1015463	2.4592228	100	3	1991–2000	0.58	M-v	3	Williams	38024	1991 RQ ₅
1991 RE ₆	13.1	0.15	20000226	281.05274	268.52911	32.30659	10.37330	0.0888050	3.0021771	32	3	1991–2000	0.65	M-v	4	Williams	39516	1991 RE ₆
1991 RT ₆	12.4	0.15	20000226	262.14044	283.18370	321.11027	20.21423	0.0843384	3.1705621	55	2	1991–2000	0.38	M-v	3	Williams	39148	1991 RT ₆
1991 RB ₇	14.9	0.15	20000226	182.02189	4.61834	4.98114	4.47122	0.1887435	2.2379564	40	3	1991–2000	0.63	M-v	4	Williams	39516	1991 RB ₇
1991 RC ₉	14.3	0.15	20000226	162.36182	337.60901	18.94194	4.05967	0.0975015	2.2905722	84	3	1991–2000	0.48	M-v	3	Williams	39516	1991 RC ₉
1991 RL ₉	14.8	0.15	20000226	81.49739	149.71149	212.46789	2.00032	0.1779961	2.4355964	54	6	1968–2000	0.52	M-v	2	Williams	38024	1991 RL ₉
1991 RT ₉	14.5	0.15	20000226	119.54662	22.81824	314.74045	1.64032	0.2257386	2.3834055	36	3	1980–2000	0.41	M-v	4	Williams	38756	1991 RT ₉
1991 RU ₉	14.9	0.15	20000226	168.82072	64.34512	281.04925	1.16458	0.1667716	2.2877707	77	3	1991–2000	0.62	M-v	3	Williams	39516	1991 RU ₉
1991 RR ₁₀	14.9	0.15	20000226	130.90900	21.02524	5.06987	6.80209	0.1223325	2.3119196	92	3	1991–2000	0.68	M-v	3	Williams	39516	1991 RR ₁₀
1991 RC ₁₁	12.4	0.15	20000226	164.15303	206.74557	202.67974	22.56582	0.1626630	3.1039331	31	3	1991–2000	0.79	M-v	3	Williams	34494	1991 RC ₁₁
1991 RO ₁₁	12.7	0.15	20000226	147.54834	34.54217	322.24679	22.42511	0.1277298	3.1826371	73	3	1991–2000	0.72	M-v	3	Williams	39516	1991 RO ₁₁
1991 RP ₁₂	14.1	0.15	20000226	206.26031	329.71355	345.28073	7.11174	0.1603446	2.2327657	74	3	1991–2000	0.51	M-v	3	Williams	39516	1991 RP ₁₂
1991 RL ₁₃	15.4	0.15	20000226	226.01462	31.35761	294.13319	2.39583	0.1754603	2.2130855	25	3	1991–2000	0.66	M-v	3	Williams	35683	1991 RL ₁₃
1991 RA ₁₄	13.0	0.15	20000226	17.89159	37.76849	338.96443	7.85387	0.2665612	3.9651788	67	2	1991–2000	0.48	M-v	3	Williams	38756	1991 RA ₁₄
1991 RG ₁₄	14.6	0.15	20000226	10.85596	37.61673	341.89635	13.05164	0.1899677	2.5507157	70	4	1991–1999	0.62	M-v	2	Williams	38025	1991 RG ₁₄
1991 RH ₁₄	14.3	0.15	20000226	47.95501	121.15718	326.35995	6.56216	0.0734452	2.3386532	105	3	1991–2000	0.60	M-v	2	Williams	39516	1991 RH ₁₄
1991 RQ ₁₄	13.6	0.15	20000226	188.79100	285.48078	58.75874	1.94946	0.1778264	3.1672089	54	7	1986–2000	0.71	M-v	1	Williams	39516	1991 RQ ₁₄
1991 RG ₁₇	14.5	0.15	20000226	131.39218	233.44432	127.75251	3.40906	0.1177660	2.3344800	110	3	1991–2000	0.65	M-v	3	Williams	39516	1991 RG ₁₇
1991 RX ₁₇	13.8	0.15	20000226	160.84467	148.16430	177.73937	4.36058	0.1437363	2.3168452	122	3	1991–2000	0.74	M-v	3	Williams	39516	1991 RX ₁₇
1991 RD ₁₈	14.0	0.15	20000226	154.39843	109.03110	157.91986	3.88619	0.0438344	2.4471291	95	6	1991–2000	0.57	M-v	2	Williams	38025	1991 RD ₁₈
1991 RW ₁₈	13.2	0.15	20000226	201.19018	92.44600	269.08772	4.85848	0.1132091	3.0626380	41	4	1991–2000	0.76	M-v	1	Williams	34837	1991 RW ₁₈
1991 RB ₁₉	14.3	0.15	20000226	7.54820	45.53807	334.89927	10.56405	0.1099864	2.5447015	86	5	1987–1999	0.78	M-v	3	Williams	38025	1991 RB ₁₉
1991 RE ₁₉	14.1	0.15	20000226	114.05864	6.95893	327.49935	6.14702	0.1359096	2.3956835	47	4	1991–2000	0.61	M-v	2	Williams	38757	1991 RE ₁₉
1991 RA ₂₀	14.0	0.15	20000226	119.53128	13.84435	310.14088	5.85083	0.1561771	2.4024434	30	2	1991–2000	0.44	M-v	4	Williams	38757	1991 RA ₂₀
1991 RX ₂₁	12.5	0.15	20000226	109.32771	263.09186	158.76179	14.44422	0.1125205	3.2068206	58	3	1991–2000	0.61	M-v	3	Williams	39516	1991 RX ₂₁
1991 RJ ₂₂	14.0	0.15	20000226	257.38919	214.53256	120.62449	4.48005	0.2106947	2.1457037	71	5	1991–2000	0.68	M-v	2	Williams	34007	1991 RJ ₂₂
1991 RN ₂₂	15.0	0.15	20000226	208.05396	290.73793	11.17681	4.96044	0.2081426	2.2592050	29	3	1991–2000	0.56	M-v	4	Williams	34837	1991 RN ₂₂
1991 RA ₂₄	15.0	0.15	20000226	79.92581	13.24228	11.20589	2.26549	0.2216778	2.3891328	42	2	1991–2000	0.57	M-v	4	Williams	38757	1991 RA ₂₄
1991 RJ ₂₉	13.2	0.15	20000226	176.81533	92.21868	293.82720	12.54312	0.2038053	3.1585879	32	4	1991–1999	0.67	M-v	1	Williams	38025	1991 RJ ₂₉

1991 RY ₂₉	14.8	0.15	20000226	100.17349	136.80721	278.98513	6.02126	0.1478739	2.2951477	48	3	1991–2000	0.67	M-v	3	Williams	39516	1991 RY ₂₉
1991 RX ₄₀	16.1	0.15	20000226	122.91783	239.78169	153.21960	2.71307	0.1825831	2.3095354	44	3	1991–2000	0.95	M-v	4	Williams	35063	1991 RX ₄₀
1991 RJ ₄₁	14.6	0.15	20000226	144.39105	8.80364	12.90439	7.68052	0.1272340	2.2833829	116	3	1991–2000	0.64	M-v	3	Williams	39516	1991 RJ ₄₁
1991 SJ	14.4	0.15	20000226	329.66042	83.17990	139.64406	5.19907	0.1168964	2.1963586	50	3	1991–2000	0.66	M-v	3	Williams	39148	1991 SJ
1991 SU	14.0	0.15	20000226	54.07993	284.91816	109.98068	8.39851	0.1386088	2.4132131	66	3	1991–2000	0.51	M-v	3	Williams	39517	1991 SU
1991 SW	13.2	0.15	20000226	207.76275	198.96126	115.07756	10.67497	0.0804713	3.1684126	36	3	1991–2000	0.65	M-v	3	Williams	39148	1991 SW
1991 SN ₁	14.5	0.15	20000226	202.15019	160.28552	203.38588	5.79170	0.1671363	2.2202028	47	7	1951–2000	0.69	M-v	1	Williams	33546	1991 SN ₁
1991 TB	14.3	0.15	20000226	99.26984	9.18923	28.11700	7.88674	0.1906616	2.3180151	44	3	1976–2000	0.42	M-v	3	Williams	39148	1991 TB
1991 TO	15.2	0.15	20000226	175.21248	246.10511	122.06717	5.13776	0.1146395	2.2575441	34	4	1991–2000	0.67	M-v	2	Williams	33744	1991 TO
1991 TS	14.3	0.15	20000226	127.24270	192.57167	130.52929	6.33976	0.1062922	2.4145575	48	3	1991–2000	0.70	M-v	3	Williams	39517	1991 TS
1991 TH ₁	15.0	0.15	20000226	144.19103	2.74569	18.37976	22.97277	0.2232427	2.2976844	58	3	1991–2000	0.64	M-v	2	Williams	39517	1991 TH ₁
1991 TQ ₁	12.9	0.15	20000226	118.40166	6.90203	21.25142	24.65376	0.2170078	2.3289532	51	3	1991–2000	0.58	M-v	2	Williams	39517	1991 TQ ₁
1991 TG ₂	14.4	0.15	20000226	356.95458	1.73267	45.70781	6.01533	0.3077819	2.5728098	29	3	1991–1999	0.58	M-v	3	Williams	38025	1991 TG ₂
1991 TB ₅	13.9	0.15	20000226	20.93159	313.92888	10.92384	12.81299	0.1784474	2.6643883	27	3	1991–1998	0.86	M-v	4	Williams	39149	1991 TB ₅
1991 TU ₅	15.1	0.15	20000226	11.38377	103.79866	344.89504	3.29189	0.0893363	2.4335648	49	3	1991–2000	0.54	M-v	3	Williams	38757	1991 TU ₅
1991 TT ₆	14.6	0.15	20000226	251.79636	296.80529	224.16826	4.15063	0.0935195	2.5219627	56	2	1991–1999	0.69	M-v	5	Williams	39149	1991 TT ₆
1991 TK ₈	14.7	0.15	20000226	92.48816	257.36133	151.69215	6.07057	0.1304262	2.3403967	114	3	1991–2000	0.59	M-v	2	Williams	39517	1991 TK ₈
1991 TU ₁₃	14.9	0.15	20000226	344.03325	73.06197	334.12108	7.99586	0.1194414	2.6435675	46	3	1991–1999	0.63	M-v	3	Williams	36879	1991 TU ₁₃
1991 TL ₁₄	14.7	0.15	20000226	251.22219	247.97684	29.01607	6.41189	0.1508705	2.2473810	49	3	1991–2000	0.66	M-v	2	Williams	39517	1991 TL ₁₄
1991 UK ₁	14.2	0.15	20000226	181.65476	11.21030	333.26341	4.87972	0.2133947	2.2785929	68	3	1991–2000	0.74	M-v	3	Williams	39517	1991 UK ₁
1991 UQ ₁	14.0	0.15	20000226	130.95246	22.76694	38.83789	8.52783	0.1810502	2.2904626	57	4	1984–2000	0.69	M-v	3	Williams	35684	1991 UQ ₁
1991 UV ₁	15.0	0.15	20000226	113.67505	41.36427	32.22815	6.92340	0.1723153	2.2995793	38	4	1984–2000	0.67	M-v	3	Williams	35684	1991 UV ₁
1991 UE ₂	13.6	0.15	20000226	319.48798	52.49789	47.25743	3.67225	0.0878105	2.5599615	127	4	1987–2000	0.49	M-v	1	Williams	38025	1991 UE ₂
1991 UJ ₂	13.8	0.15	20000226	221.07071	264.75716	31.52738	5.33656	0.1578042	2.3052378	101	3	1991–2000	0.51	M-v	2	Williams	39517	1991 UJ ₂
1991 UR ₂	14.5	0.15	20000226	54.56641	24.73882	37.25952	8.21973	0.3165146	2.4425717	47	2	1991–2000	0.54	M-v	3	Williams	39517	1991 UR ₂
1991 UP ₃	15.4	0.15	20000226	106.44091	320.71583	87.06654	3.20919	0.2026071	2.3491174	35	5	1991–2000	0.67	M-v	1	Williams	32744	1991 UP ₃
1991 VF ₁	14.3	0.15	20000226	200.62058	352.25997	6.35994	3.63042	0.1202100	2.2523594	78	3	1991–2000	0.58	M-v	3	Williams	39517	1991 VF ₁
1991 VG ₁	14.0	0.15	20000226	81.87316	32.71277	30.32264	5.98470	0.2717239	2.3837365	49	3	1991–2000	0.66	M-v	3	Williams	39149	1991 VG ₁
1991 VO ₁	14.1	0.15	20000226	140.85450	313.14179	112.84864	5.47353	0.1222674	2.2594621	36	4	1991–2000	0.75	M-v	2	Williams	36067	1991 VO ₁
1991 VQ ₁	13.3	0.15	20000226	168.61745	297.52169	71.85632	7.34561	0.2068239	2.2813303	123	4	1991–2000	0.67	M-v	2	Williams	39517	1991 VQ ₁
1991 VX ₂	12.6	0.15	20000226	204.10129	66.39823	303.16970	4.41078	0.1502271	3.1794082	45	5	1991–2000	0.72	M-v	1	Williams	34287	1991 VX ₂
1991 VY ₂	14.0	0.15	20000226	221.81953	59.74154	268.50146	6.64130	0.1053702	2.2859148	31	3	1991–2000	0.58	M-v	3	Williams	39517	1991 VY ₂
1991 VA ₃	12.9	0.15	20000226	24.54601	114.97305	254.40008	11.45197	0.2171400	2.6016470	122	3	1991–2000	0.51	M-v	2	Williams	38757	1991 VA ₃
1991 VE ₃	14.3	0.15	20000226	17.23491	296.85569	118.50484	4.52565	0.2890235	2.5431169	90	3	1991–2000	0.51	M-v	2	Williams	39517	1991 VE ₃
1991 VG ₃	14.0	0.15	20000226	147.04390	178.79971	219.02796	25.83868	0.1686898	2.2661441	46	4	1991–2000	0.67	M-v	2	Williams	33546	1991 VG ₃
1991 VO ₃	14.3	0.15	20000226	50.84517	36.46677	59.65317	4.17255	0.1511209	2.3839828	81	3	1991–2000	0.63	M-v	2	Williams	39517	1991 VO ₃
1991 VA ₄	14.5	0.15	20000226	97.14951	341.76597	105.02119	3.13023	0.2017098	2.3324259	56	3	1991–2000	0.73	M-v	3	Williams	33546	1991 VA ₄
1991 VG ₄	13.6	0.15	20000226	10.28239	180.70934	252.23778	11.82481	0.1447097	2.5326812	60	4	1991–2000	0.58	M-v	2	Williams	39517	1991 VG ₄
1991 VJ ₄	13.0	0.15	20000226	226.54025	278.21109	42.60565	7.02683	0.1487658	2.2864622	78	4	1956–2000	0.48	M-v	2	Williams	39517	1991 VJ ₄
1991 VY ₄	13.8	0.15	20000226	36.33964	334.12834	98.59167	3.73438	0.1502002	2.4595985	105	4	1991–2000	0.61	M-v	1	Williams	38757	1991 VY ₄
1991 VA ₅	13.5	0.15	20000226	19.79944	32.60685	79.01142	14.44053	0.1737584	2.4418285	71	2	1991–2000	0.61	M-v	2	Williams	39517	1991 VA ₅
1991 VM ₅	13.5	0.15	20000226	168.49902	267.29238	70.06689	6.34628	0.2112664	2.3240593	116	4	1977–2000	0.64	M-v	3	Williams	39517	1991 VM ₅
1991 VY ₅	14.8	0.15	20000226	19.18788	293.35266	118.39375	4.82755	0.2247490	2.5381514	67	3	1991–2000	0.63	M-v	2	Williams	38439	1991 VY ₅
1991 VA ₉	14.7	0.15	20000226	353.26042	105.83975	59.80128	7.61984	0.0597113	2.3511908	39	3	1991–2000	0.55	M-v	3	Williams	33229	1991 VA ₉
1991 VC ₉	15.6	0.15	20000226	279.19295	116.98916	83.46356	3.49699	0.1158812	2.4283217	26	2	1991–2000	0.41	M-v	6	Williams	39149	1991 VC ₉
1991 VH ₉	15.1	0.15	20000226	280.29337	77.05745	193.85254	4.23900	0.1851327	2.2538003	52	2	1991–2000	0.45	M-v	4	Williams	39149	1991 VH ₉
1991 XF	14.4	0.15	20000226	64.47330	18.85251	68.47291	6.39977	0.2245096	2.4023004	49	3	1991–2000	0.57	M-v	2	Williams	39150	1991 XF
1991 XN	15.3	0.15	20000226	117.83318	17.27767	64.86097	8.60994	0.2877222	2.3207721	48	2	1991–1999	0.66	M-v	3	Williams	34578	1991 XN
1992 AC ₁	13.4	0.15	20000226	1.01440	156.47505	272.37592	11.59858	0.2710471	2.6153520	68	3	1986–1999	0.48	M-v	2	Williams	39150	1992 AC ₁
1992 AJ ₁	12.9	0.15	20000226	285.43963	306.31000	272.81535	5.06673	0.1070580	2.5216565	122	4	1992–2000	0.58	M-v	2	Williams	39517	1992 AJ ₁
1992 AO ₁	13.7	0.15	20000226	77.38580	41.45483	62.32858	4.08531	0.2086588	2.4123358	77	3	1992–2000	0.74	M-v	2	Williams	39517	1992 AO ₁
1992 BD	14.8	0.15	20000226	19.86699	21.17445	79.16803	28.98986	0.0650451	1.8965029	80	4	1975–2000	0.49	M-v	2	Williams	38757	1992 BD
1992 BJ	14.6	0.15	20000226	98.72571	333.51061	124.63053	2.91279	0.1336453	2.3652018	38	3	1992–2000	0.69	M-v	3	Williams	35684	1992 BJ

1992 BC ₁	13.7	0.15	20000226	115.02353	273.20109	135.70396	22.81877	0.3342711	2.3778608	44	3	1992-2000	0.66	M-v	4	Williams	38757	1992 BC ₁
1992 BH ₂	13.2	0.15	20000226	79.57452	56.03429	274.25483	11.18065	0.1838898	2.6803389	57	3	1992-2000	0.57	M-v	1	Williams	37629	1992 BH ₂
1992 BT ₂	12.6	0.15	20000226	339.30007	305.43162	146.68999	13.87205	0.1369217	2.6487357	95	3	1992-2000	0.60	M-v	2	Williams	38026	1992 BT ₂
1992 BW ₃	15.2	0.15	20000226	195.83551	295.40880	53.54989	6.44998	0.1913652	2.2764567	33	3	1991-2000	0.70	M-v	3	Williams	39517	1992 BW ₃
1992 CQ	12.2	0.15	20000226	217.27172	115.26507	134.11313	14.22842	0.1334161	2.6649906	35	2	1992-2000	0.54	M-v	3	Williams	39517	1992 CQ
1992 CN ₂	14.5	0.15	20000226	326.96199	221.94170	277.62263	10.71858	0.1273705	2.5842342	44	3	1992-2000	0.62	M-v	3	Williams	38026	1992 CN ₂
1992 CG ₃	13.7	0.15	20000226	97.73351	257.29557	176.30069	6.24243	0.0984982	2.4147355	112	4	1992-2000	0.64	M-v	2	Williams	39517	1992 CG ₃
1992 CK ₃	13.9	0.15	20000226	179.04620	204.37962	228.93196	2.62304	0.1171466	2.2587866	30	3	1992-1999	0.51	M-v	4	Williams	34578	1992 CK ₃
1992 DH ₁	14.5	0.15	20000226	83.69545	93.93127	325.64435	21.03753	0.0865960	1.9186261	71	4	1992-2000	0.60	M-v	2	Williams	39517	1992 DH ₁
1992 DH ₃	14.6	0.15	20000226	201.46130	240.10510	338.70797	6.64707	0.1477102	2.8216983	24	4	1992-1999	0.62	M-v	1	Williams	36509	1992 DH ₃
1992 DD ₄	14.9	0.15	20000226	345.80922	297.70622	156.38699	4.17185	0.0668135	2.7074547	46	3	1992-1999	0.67	M-v	4	Williams	38758	1992 DD ₄
1992 DC ₇	14.1	0.15	20000226	60.85146	207.56993	121.24443	3.15060	0.0702829	2.9003061	47	2	1992-1999	0.56	M-v	4	Williams	38026	1992 DC ₇
1992 DP ₇	14.9	0.15	20000226	61.45927	337.85563	119.02996	3.49509	0.0519808	2.5173260	27	3	1992-2000	0.49	M-v	2	Williams	39517	1992 DP ₇
1992 DW ₇	14.9	0.15	20000226	80.06796	37.44804	71.93014	2.64237	0.1017014	2.4392977	41	3	1992-2000	0.60	M-v	3	Williams	35684	1992 DW ₇
1992 DB ₈	14.6	0.15	20000226	272.83849	118.04655	138.80858	6.42685	0.0781272	2.5249895	51	3	1992-2000	0.68	M-v	4	Williams	39150	1992 DB ₈
1992 DD ₈	14.0	0.15	20000226	77.53187	91.04689	253.77229	4.84917	0.1050579	2.7618692	65	3	1992-2000	0.63	M-v	3	Williams	38758	1992 DD ₈
1992 DK ₈	14.4	0.15	20000226	307.00457	126.40963	217.90966	5.22166	0.1942160	2.2457246	21	2	1992-1996	1.06	M-v	5	Williams	27308	1992 DK ₈
1992 DY ₈	14.7	0.15	20000226	352.41200	146.36167	67.83514	2.99051	0.0914586	2.4385058	21	3	1992-2000	0.57	M-v	4	Williams	39517	1992 DY ₈
1992 DM ₉	15.1	0.15	20000226	170.19205	127.22007	187.56858	9.06338	0.0220446	2.5983300	37	4	1992-2000	0.70	M-v	1	Williams	38026	1992 DM ₉
1992 DV ₉	16.3	0.15	20000226	71.06523	268.32579	202.91064	3.14821	0.1347666	2.4406616	36	4	1992-2000	0.55	M-v	3	Williams	34008	1992 DV ₉
1992 DA ₁₂	15.4	0.15	20000226	109.33774	326.82446	193.10124	0.36155	0.1060608	2.2896324	54	3	1979-1999	0.69	M-v	3	Williams	34578	1992 DA ₁₂
1992 EA ₁	13.8	0.15	20000226	332.15341	225.41363	259.13788	11.94615	0.1568293	2.6703088	53	3	1992-2000	0.54	M-v	3	Williams	38758	1992 EA ₁
1992 EB ₄	14.1	0.15	20000226	5.67508	319.13550	138.86119	10.44220	0.0806682	2.6250224	41	4	1992-2000	0.68	M-v	4	Williams	38026	1992 EB ₄
1992 EY ₅	14.0	0.15	20000226	327.76458	40.99995	145.38031	14.14002	0.0954885	2.5397176	89	3	1992-2000	0.61	M-v	3	Williams	39517	1992 EY ₅
1992 EJ ₆	14.3	0.15	20000226	29.65651	273.20536	120.23100	6.16011	0.0287271	2.7704641	40	4	1992-2000	0.71	M-v	1	Williams	38026	1992 EJ ₆
1992 ES ₆	14.1	0.15	20000226	11.56643	302.87828	113.23670	7.04479	0.2144690	2.6947564	66	4	1992-2000	0.52	M-v	2	Williams	38026	1992 ES ₆
1992 EA ₈	14.2	0.15	20000226	282.01878	281.74956	193.32383	1.60667	0.0345227	2.8405554	50	4	1992-1999	0.72	M-v	2	Williams	38026	1992 EA ₈
1992 EV ₈	15.1	0.15	20000226	36.86549	317.97011	128.92684	8.88289	0.0476657	2.5898446	35	4	1992-2000	0.55	M-v	3	Williams	38758	1992 EV ₈
1992 EP ₁₀	14.0	0.15	20000226	314.76146	39.63599	163.10669	14.77763	0.0489837	2.5332750	83	4	1992-2000	0.53	M-v	3	Williams	39517	1992 EP ₁₀
1992 EZ ₁₀	13.0	0.15	20000226	3.91878	357.74143	165.43917	3.83270	0.1352344	3.9589766	49	2	1992-2000	0.56	M-v	4	Williams	39150	1992 EZ ₁₀
1992 EK ₁₂	14.8	0.15	20000226	102.15516	243.44661	157.79850	11.95421	0.1387511	2.5279071	66	4	1992-2000	0.51	M-v	3	Williams	39518	1992 EK ₁₂
1992 EN ₁₂	14.2	0.15	20000226	13.45738	28.92883	97.89930	3.08565	0.0727463	2.5555659	107	3	1992-2000	0.66	M-v	3	Williams	39518	1992 EN ₁₂
1992 EO ₁₂	14.0	0.15	20000226	36.99777	258.46105	117.63261	4.49148	0.1071207	2.7852218	52	2	1992-2000	0.49	M-v	3	Williams	38026	1992 EO ₁₂
1992 EM ₁₃	14.1	0.15	20000226	240.98682	210.83036	334.24644	10.32193	0.1255055	2.7854189	23	2	1992-1999	0.60	M-v	4	Williams	37119	1992 EM ₁₃
1992 EQ ₁₃	14.2	0.15	20000226	58.07987	96.71600	280.34162	4.14707	0.0845850	2.7262822	53	4	1992-2000	0.54	M-v	2	Williams	38758	1992 EQ ₁₃
1992 EZ ₁₃	13.1	0.15	20000226	29.68736	307.33747	183.24308	8.75008	0.0997457	3.9783284	22	2	1992-2000	0.47	M-v	5	Williams	39151	1992 EZ ₁₃
1992 ED ₁₄	13.1	0.15	20000226	160.81015	170.66117	174.99371	8.18034	0.2072359	2.5516369	62	4	1992-2000	0.69	M-v	3	Williams	39518	1992 ED ₁₄
1992 EK ₁₄	13.6	0.15	20000226	145.39007	19.03020	336.31407	3.59896	0.2559835	2.5504201	118	5	1980-2000	0.63	M-v	2	Williams	39518	1992 EK ₁₄
1992 ET ₁₄	14.1	0.15	20000226	358.58762	200.51351	223.60716	2.76502	0.0868884	2.7590341	68	4	1992-1999	0.47	M-v	1	Williams	38758	1992 ET ₁₄
1992 EW ₁₆	13.6	0.15	20000226	208.88172	333.14547	327.24939	4.06525	0.1215945	2.5822149	109	3	1992-2000	0.58	M-v	3	Williams	39518	1992 EW ₁₆
1992 EW ₁₇	13.9	0.15	20000226	249.87486	74.54978	179.51537	13.90006	0.1233250	2.5817080	39	3	1992-2000	0.75	M-v	3	Williams	39518	1992 EW ₁₇
1992 ED ₁₈	13.8	0.15	20000226	239.44576	26.31364	182.18700	12.17013	0.0312033	2.7045347	48	5	1992-2000	0.64	M-v	1	Williams	38758	1992 ED ₁₈
1992 ER ₁₈	14.7	0.15	20000226	342.56840	201.56630	357.58896	9.46347	0.1270319	2.4756615	46	4	1992-2000	0.63	M-v	3	Williams	39518	1992 ER ₁₈
1992 EF ₂₂	14.6	0.15	20000226	55.58666	35.61099	34.76095	4.52577	0.1295237	2.5662975	43	4	1990-2000	0.64	M-v	1	Williams	38758	1992 EF ₂₂
1992 EH ₂₄	15.3	0.15	20000226	200.85251	226.51995	124.39250	7.14244	0.1877748	2.4305869	26	4	1990-2000	0.63	M-v	2	Williams	30757	1992 EH ₂₄
1992 EJ ₂₄	14.2	0.15	20000226	167.63741	251.17053	132.24130	9.85695	0.2407069	2.3986823	43	6	1953-2000	0.69	M-v	1	Williams	33745	1992 EJ ₂₄
1992 EB ₂₆	15.0	0.15	20000226	59.71025	120.68934	348.75926	9.05736	0.1826158	2.4670848	29	4	1992-2000	0.74	M-v	2	Williams	39518	1992 EB ₂₆
1992 ES ₂₈	14.0	0.15	20000226	56.80074	303.53840	21.42441	2.62586	0.0183617	2.9141502	44	5	1977-1999	0.73	M-v	4	Williams	37262	1992 ES ₂₈
1992 ET ₃₂	13.6	0.15	20000226	346.42953	301.86288	246.85160	2.44211	0.1375530	3.9601784	35	3	1992-2000	0.64	M-v	4	Williams	39518	1992 ET ₃₂
1992 EV ₃₂	14.3	0.15	20000226	16.18095	194.15620	209.35531	3.43131	0.1102825	2.7583378	65	3	1992-1999	0.51	M-v	3	Williams	38758	1992 EV ₃₂
1992 GO	13.1	0.15	20000226	205.75841	129.30379	152.99152	13.43462	0.1621702	2.6778059	49	4	1992-2000	0.68	M-v	2	Williams	38758	1992 GO
1992 GN ₂	14.2	0.15	20000226	267.82517	239.05345	354.13240	1.57583	0.1454349	2.6736459	53	4	1992-2000	0.71	M-v	3	Williams	38758	1992 GN ₂
1992 GV ₃	13.6	0.15	20000226	0.27896	146.06438	33.40068	9.98114	0.0353369	2.5631842	93	4	1992-2000	0.58	M-v	3	Williams	39518	1992 GV ₃

1992 GA ₅	14.5	0.15	20000226	262.68320	236.65679	49.84817	3.93113	0.2996552	2.6258184	60	3	1992-2000	0.80	M-v	3	Williams	39151	1992 GA ₅
1992 GE ₅	13.7	0.15	20000226	89.64793	286.31401	49.42833	2.83570	0.0790979	2.9240576	81	4	1992-1999	0.65	M-v	1	Williams	38026	1992 GE ₅
1992 HD ₄	13.8	0.15	20000226	333.35879	340.82929	213.12855	7.15372	0.1369028	2.5791276	93	3	1992-2000	0.71	M-v	3	Williams	39518	1992 HD ₄
1992 JL	13.5	0.15	20000226	259.90584	162.41279	109.75047	15.36103	0.1632729	2.6404797	36	3	1992-2000	0.71	M-v	3	Williams	34008	1992 JL
1992 JR	14.5	0.15	20000226	88.01192	94.70722	116.18724	8.11860	0.2549451	2.3179479	67	3	1992-1999	0.70	M-v	2	Williams	35422	1992 JR
1992 JP ₃	15.0	0.15	20000226	328.42903	199.34283	42.29920	7.98302	0.1737567	2.5338845	30	3	1992-2000	0.74	M-v	4	Williams	27309	1992 JP ₃
1992 JR ₃	13.6	0.15	20000226	330.32658	338.82478	265.52901	2.11597	0.1041739	2.5227407	36	5	1992-2000	0.73	M-v	1	Williams	39518	1992 JR ₃
1992 KF	13.2	0.15	20000226	316.94304	173.51288	66.30849	15.18911	0.1267460	2.5773126	39	4	1981-2000	0.67	M-v	2	Williams	39518	1992 KF
1992 LQ	12.8	0.15	20000226	136.98082	212.30704	75.45826	11.48319	0.0734940	2.9967556	96	2	1992-2000	0.60	M-v	4	Williams	38758	1992 LQ
1992 OJ ₁	13.5	0.15	20000226	107.56281	305.62881	320.42409	23.55391	0.1801768	2.2819745	114	3	1992-1999	0.58	M-v	2	Williams	37262	1992 OJ ₁
1992 OH ₂	11.8	0.15	20000226	138.16780	147.61210	135.72704	22.65197	0.0418551	3.2360035	58	4	1978-2000	0.54	M-v	2	Williams	39151	1992 OH ₂
1992 PF	14.8	0.15	20000226	97.73062	135.68869	181.35130	2.34564	0.2047137	2.2272507	123	3	1992-2000	0.58	M-v	3	Williams	38027	1992 PF
1992 PP ₁	15.0	0.15	20000226	331.46671	162.46153	289.62576	3.60960	0.1468793	2.2407266	48	2	1992-1999	0.82	M-v	4	Williams	38758	1992 PP ₁
1992 PT ₁	16.6	0.15	20000226	130.19356	120.73358	146.55714	6.78143	0.2484189	2.2265742	20	2	1992-1996	0.72	M-v	5	Williams	31382	1992 PT ₁
1992 PU ₁	13.6	0.15	20000226	185.58662	74.58585	170.69135	4.01472	0.1299880	3.1532412	50	4	1992-1999	0.71	M-v	1	Williams	38758	1992 PU ₁
1992 PA ₂	15.1	0.15	20000226	58.49574	42.16250	307.20010	5.67731	0.2172158	2.2614727	79	3	1992-2000	0.60	M-v	2	Williams	38027	1992 PA ₂
1992 PG ₂	13.9	0.15	20000226	245.70844	112.69442	193.36558	8.04417	0.2853328	2.7442178	28	4	1988-2000	0.76	M-v	2	Williams	39518	1992 PG ₂
1992 PC ₃	12.2	0.15	20000226	145.46274	61.50634	273.48479	11.60674	0.1611668	3.0485744	98	3	1992-2000	0.69	M-v	3	Williams	39518	1992 PC ₃
1992 PE ₃	14.7	0.15	20000226	67.09851	112.47632	238.93167	5.52096	0.1961097	2.2500696	122	3	1992-2000	0.56	M-v	2	Williams	38027	1992 PE ₃
1992 PZ ₃	14.1	0.15	20000226	48.35119	53.58674	323.15570	6.73753	0.1822170	2.2447142	72	4	1972-2000	0.54	M-v	1	Williams	38758	1992 PZ ₃
1992 QT	14.0	0.15	20000226	90.53195	304.73645	338.19574	26.43180	0.1851854	2.3124540	56	3	1992-1999	0.52	M-v	2	Williams	36881	1992 QT
1992 RW ₂	15.0	0.15	20000226	74.62870	0.10225	328.64554	6.06418	0.1412637	2.2762856	75	3	1992-1999	0.63	M-v	3	Williams	37262	1992 RW ₂
1992 RR ₃	15.2	0.15	20000226	44.15471	70.81902	335.22941	6.34066	0.1411061	2.2205514	36	2	1992-2000	0.64	M-v	4	Williams	39152	1992 RR ₃
1992 RV ₃	16.3	0.15	20000226	45.09174	34.20766	320.94131	3.43780	0.1860434	2.2975680	43	2	1992-1999	0.66	M-v	4	Williams	36881	1992 RV ₃
1992 SH	12.9	0.15	20000226	296.66574	106.73148	188.72800	12.29875	0.1742129	2.6945771	48	4	1987-2000	0.79	M-v	1	Williams	35064	1992 SH
1992 SO	14.3	0.15	20000226	74.58161	79.18863	244.51266	5.75685	0.1649794	2.3202546	113	3	1992-2000	0.60	M-v	2	Williams	38027	1992 SO
1992 SZ	20.1	0.15	20000226	125.57434	314.66290	4.39611	9.27772	0.4598217	2.1756637	26	1	99 days	0.57	M-v	5	Williams	21269	1992 SZ
1992 SQ ₁	14.9	0.15	20000226	44.91228	148.11003	190.98331	5.33046	0.2234830	2.3412361	68	3	1992-1999	0.67	M-v	2	Williams	38027	1992 SQ ₁
1992 ST ₁₃	13.0	0.15	20000226	117.41732	246.71766	160.08864	6.29205	0.1070993	2.9964899	65	4	1992-2000	0.59	M-v	1	Williams	39518	1992 ST ₁₃
1992 SH ₁₇	15.3	0.15	20000226	79.94436	303.65557	1.55010	7.19527	0.1225485	2.3246349	65	3	1992-1999	0.57	M-v	3	Williams	36331	1992 SH ₁₇
1992 SS ₁₇	14.0	0.15	20000226	109.07062	240.89067	186.52230	1.69558	0.0272749	2.9363440	49	2	1992-2000	0.57	M-v	5	Williams	39152	1992 SS ₁₇
1992 SQ ₂₃	14.5	0.15	20000226	77.29255	101.45640	219.98897	7.82475	0.3105249	2.3070902	145	4	1981-2000	0.53	M-v	2	Williams	38027	1992 SQ ₂₃
1992 SY ₂₄	12.7	0.15	20000226	156.32838	10.21861	350.72321	10.31699	0.1082135	2.9982996	73	3	1992-2000	0.58	M-v	3	Williams	39518	1992 SY ₂₄
1992 SM ₂₆	15.0	0.15	20000226	34.08654	349.57201	41.90839	7.21294	0.1218217	2.3051834	49	2	1992-2000	0.55	M-v	3	Williams	38027	1992 SM ₂₆
1992 TJ ₁	13.4	0.15	20000226	290.26447	179.21945	150.05833	14.45008	0.1816818	2.6514562	40	4	1992-2000	0.61	M-v	3	Williams	35686	1992 TJ ₁
1992 UN	13.1	0.15	20000226	121.53625	224.35712	163.96273	1.21883	0.1542346	3.1138863	61	4	1992-2000	0.55	M-v	1	Williams	39518	1992 UN
1992 UJ ₂	12.5	0.15	20000226	204.32322	104.54230	227.57430	9.11742	0.1100705	2.9937112	39	3	1992-2000	0.55	M-v	2	Williams	39518	1992 UJ ₂
1992 UC ₆	14.6	0.15	20000226	58.17201	143.76092	240.74914	7.00214	0.1125992	2.2923242	79	3	1991-2000	0.60	M-v	3	Williams	38759	1992 UC ₆
1992 UE ₆	13.9	0.15	20000226	54.79385	354.05555	64.12784	8.01757	0.1401276	2.2504961	83	3	1992-2000	0.74	M-v	2	Williams	38759	1992 UE ₆
1992 UQ ₆	14.1	0.15	20000226	48.14972	56.25306	335.06224	6.46262	0.1792262	2.2962169	43	2	1992-2000	0.38	M-v	3	Williams	38759	1992 UQ ₆
1992 UG ₇	16.5	0.15	20000226	72.45418	301.15614	33.70772	1.26345	0.1661586	2.3078017	42	2	1992-1999	0.59	M-v	5	Williams	38027	1992 UG ₇
1992 UR ₈	13.8	0.15	20000226	215.05452	187.26633	22.70953	7.60021	0.0677274	2.3292492	96	4	1985-2000	0.47	M-v	3	Williams	38759	1992 UR ₈
1992 US ₈	15.4	0.15	20000226	96.29507	95.80191	292.64494	2.27128	0.2061337	2.1979459	48	3	1992-2000	0.57	M-v	4	Williams	39518	1992 US ₈
1992 VF	14.9	0.15	20000226	101.86611	179.08057	200.80129	2.89921	0.1961383	2.2122576	73	3	1992-2000	0.52	M-v	4	Williams	39518	1992 VF
1992 VN	14.1	0.15	20000226	50.37489	152.53055	259.42761	7.66177	0.1247249	2.2561834	43	3	1992-2000	0.62	M-v	2	Williams	39518	1992 VN
1992 WG	13.3	0.15	20000226	141.65460	351.27296	53.77358	12.37571	0.1356683	3.0321214	48	3	1992-2000	0.81	M-v	3	Williams	39518	1992 WG
1992 WM	14.1	0.15	20000226	345.62028	66.09527	50.92916	7.55349	0.0773656	2.2802612	51	2	1992-2000	0.66	M-v	4	Williams	38759	1992 WM
1992 WU	14.4	0.15	20000226	78.26050	161.84605	232.68237	4.90549	0.1784524	2.2358059	44	2	1992-2000	0.59	M-v	4	Williams	38442	1992 WU
1992 WK ₁	12.2	0.15	20000226	119.54748	324.68423	76.37058	18.17969	0.2071438	3.1544847	81	4	1990-2000	0.64	M-v	2	Williams	39518	1992 WK ₁
1992 WP ₁	12.5	0.15	20000226	129.58929	322.14148	96.03524	12.89576	0.1121033	3.0570021	79	3	1992-2000	0.68	M-v	3	Williams	39518	1992 WP ₁
1992 WS ₁	13.1	0.15	20000226	84.49266	25.36617	76.48038	6.27266	0.1754726	3.1247779	49	3	1992-2000	0.72	M-v	3	Williams	35064	1992 WS ₁
1992 WX ₁	14.9	0.15	20000226	114.89233	101.01777	285.93116	3.10797	0.1269497	2.1791369	51	4	1992-2000	0.72	M-v	2	Williams	39518	1992 WX ₁
1992 WK ₂	14.9	0.15	20000226	321.68966	227.19764	251.08581	2.60408	0.1079737	2.3401080	80	3	1992-2000	0.51	M-v	2	Williams	39152	1992 WK ₂

1992 WS ₆	15.2	0.15	20000226	52.09903	219.24444	145.98927	2.02357	0.0748168	2.3403312	63	3	1992-1999	0.56	M-v	4	Williams	37631	1992 WS ₆
1992 XK	14.5	0.15	20000226	4.67579	118.05971	283.20034	1.16664	0.2114428	2.4002314	96	3	1992-1999	0.71	M-v	2	Williams	38028	1992 XK
1992 YK	13.3	0.15	20000226	351.69169	81.93456	9.88464	6.93940	0.0665894	2.3691998	95	3	1992-2000	0.56	M-v	3	Williams	38759	1992 YK
1992 YP	14.3	0.15	20000226	56.59451	292.66172	113.02040	5.53520	0.1263510	2.2817425	43	2	1992-2000	0.48	M-v	4	Williams	38759	1992 YP
1992 YP ₁	14.5	0.15	20000226	340.66756	63.39826	73.92710	4.36851	0.0756258	2.3035906	54	3	1992-2000	0.58	M-v	3	Williams	38759	1992 YP ₁
1992 YY ₁	14.2	0.15	20000226	94.12570	277.65886	89.97428	5.05346	0.1508805	2.2903616	58	3	1993-2000	0.63	M-v	1	Williams	38759	1992 YY ₁
1992 YR ₂	14.3	0.15	20000226	205.38008	170.75642	69.31972	5.14547	0.0604943	2.3747982	93	3	1992-2000	0.60	M-v	3	Williams	38759	1992 YR ₂
1992 YT ₃	15.1	0.15	20000226	8.30078	305.81543	118.83636	5.06456	0.1915055	2.3991426	62	2	1992-2000	0.54	M-v	3	Williams	39153	1992 YT ₃
1992 YB ₄	15.3	0.15	20000226	18.82523	73.04785	5.21669	2.91140	0.2055243	2.3345844	53	3	1992-2000	0.55	M-v	2	Williams	38759	1992 YB ₄
1993 BB	14.9	0.15	20000226	348.09515	24.97555	144.73743	5.79495	0.1389004	2.2976819	74	2	1993-2000	0.54	M-v	3	Williams	39518	1993 BB
1993 BD	14.7	0.15	20000226	8.22181	6.96093	112.93853	6.94850	0.1377782	2.3291117	92	3	1993-2000	0.55	M-v	2	Williams	38759	1993 BD
1993 BE ₂	12.0	0.15	20000226	230.24146	270.47914	97.65819	11.99941	0.1139501	3.0121821	47	7	1965-2000	0.71	M-v	1	Williams	34580	1993 BE ₂
1993 BL ₂	14.4	0.15	20000226	327.84318	59.55381	125.15934	7.77353	0.0776091	2.2921502	54	2	1993-2000	0.61	M-v	4	Williams	39518	1993 BL ₂
1993 BZ ₂	15.3	0.15	20000226	345.81883	115.18635	307.45661	9.69897	0.1897307	2.4674528	33	2	1993-1999	0.76	M-v	4	Williams	39153	1993 BZ ₂
1993 BM ₃	15.0	0.15	20000226	285.07688	185.32687	29.62965	6.56250	0.0586321	2.3336777	55	3	1993-2000	0.72	M-v	3	Williams	38759	1993 BM ₃
1993 BV ₄	15.1	0.15	20000226	359.52183	0.51073	132.41108	6.44924	0.1402379	2.3244672	35	2	1993-2000	0.65	M-v	4	Williams	38759	1993 BV ₄
1993 BT ₁₄	14.4	0.15	20000226	327.18893	314.04093	230.11122	2.55348	0.1236470	2.3106492	68	4	1991-2000	0.50	M-v	3	Williams	39518	1993 BT ₁₄
1993 DN ₁	14.4	0.15	20000226	323.81704	6.34923	164.39258	6.15072	0.2580420	2.3638480	51	3	1993-2000	0.69	M-v	3	Williams	39518	1993 DN ₁
1993 DF ₂	14.2	0.15	20000226	334.85885	70.01224	151.36994	4.70328	0.0598230	2.2512546	49	5	1991-2000	0.57	M-v	1	Williams	33548	1993 DF ₂
1993 DX ₂	14.4	0.15	20000226	151.20403	195.94637	130.79703	7.51356	0.1354158	2.3538653	50	3	1993-2000	0.63	M-v	3	Williams	38759	1993 DX ₂
1993 FG ₁	14.2	0.15	20000226	31.28989	303.49173	183.57419	22.53037	0.2031858	2.3068145	95	3	1993-2000	0.67	M-v	2	Williams	39153	1993 FG ₁
1993 FL ₁	13.7	0.15	20000226	304.01727	179.82323	38.90599	7.26893	0.0590080	2.3364490	83	3	1993-2000	0.64	M-v	3	Williams	39519	1993 FL ₁
1993 FQ ₁	13.5	0.15	20000226	245.04502	123.06241	138.57800	6.84820	0.1010350	2.3935991	104	3	1993-2000	0.61	M-v	2	Williams	39519	1993 FQ ₁
1993 FV ₁	13.2	0.15	20000226	289.64317	331.82203	158.66593	12.87509	0.1020624	2.5732275	47	3	1978-2000	0.52	M-v	2	Williams	38028	1993 FV ₁
1993 FX ₃	14.9	0.15	20000226	303.70188	45.61460	194.98720	5.70131	0.2673335	2.3451353	43	2	1993-2000	0.59	M-v	4	Williams	39519	1993 FX ₃
1993 FR ₄	14.8	0.15	20000226	270.74182	114.37350	152.90064	3.21340	0.2072101	2.3503627	39	3	1993-2000	0.52	M-v	4	Williams	39153	1993 FR ₄
1993 FV ₄	15.6	0.15	20000226	315.17619	54.57362	138.48299	2.70079	0.1475914	2.3705784	36	2	1993-2000	0.64	M-v	5	Williams	38759	1993 FV ₄
1993 FR ₅	14.5	0.15	20000226	53.50698	275.45560	75.15454	2.78395	0.0390845	2.6488900	56	2	1993-1999	0.48	M-v	3	Williams	37263	1993 FR ₅
1993 FY ₅	15.4	0.15	20000226	32.03633	103.41586	25.49026	4.56473	0.0775950	2.3239594	58	3	1993-2000	0.63	M-v	3	Williams	39519	1993 FY ₅
1993 FC ₇	15.0	0.15	20000226	189.87330	322.01479	34.44578	6.48577	0.1944968	2.2858257	32	4	1977-2000	0.63	M-v	2	Williams	33484	1993 FC ₇
1993 FG ₈	14.1	0.15	20000226	149.66659	209.99066	169.74677	12.44521	0.1909023	2.3070897	65	3	1993-2000	0.60	M-v	3	Williams	39519	1993 FG ₈
1993 FK ₉	14.7	0.15	20000226	74.54448	37.59001	37.51837	5.75407	0.0881625	2.3434302	64	3	1993-2000	0.75	M-v	2	Williams	39519	1993 FK ₉
1993 FL ₉	14.8	0.15	20000226	198.50443	164.13162	141.50006	5.53369	0.1465763	2.4145462	30	4	1993-2000	0.64	M-v	1	Williams	38759	1993 FL ₉
1993 FR ₁₀	14.1	0.15	20000226	240.47460	255.53565	31.79962	5.92935	0.1133897	2.3577686	71	3	1993-2000	0.60	M-v	2	Williams	39154	1993 FR ₁₀
1993 FH ₁₁	13.9	0.15	20000226	133.78945	342.45704	21.14747	10.66302	0.1508227	2.3989854	72	3	1993-2000	0.58	M-v	2	Williams	39519	1993 FH ₁₁
1993 FS ₁₁	14.2	0.15	20000226	45.53432	307.44222	160.90227	6.84591	0.0619272	2.3441387	98	3	1993-2000	0.61	M-v	2	Williams	39519	1993 FS ₁₁
1993 FX ₁₁	15.7	0.15	20000226	298.71020	200.57261	38.53143	5.62427	0.1133786	2.3271644	37	3	1993-2000	0.60	M-v	4	Williams	39519	1993 FX ₁₁
1993 FY ₁₁	15.7	0.15	20000226	276.13290	234.93498	31.78523	5.29451	0.2072542	2.3456522	30	3	1993-2000	0.57	M-v	4	Williams	39519	1993 FY ₁₁
1993 FH ₁₂	15.0	0.15	20000226	300.79636	101.24899	105.97842	3.22463	0.1473692	2.3849159	24	2	1993-2000	0.66	M-v	4	Williams	38759	1993 FH ₁₂
1993 FO ₁₂	14.7	0.15	20000226	298.70727	183.97109	51.07356	4.72968	0.1007966	2.3341406	53	4	1991-2000	0.54	M-v	2	Williams	39519	1993 FO ₁₂
1993 FQ ₁₂	14.9	0.15	20000226	289.12730	102.80472	114.13281	3.45177	0.1144762	2.3926874	39	2	1993-2000	0.64	M-v	5	Williams	38759	1993 FQ ₁₂
1993 FC ₁₃	14.6	0.15	20000226	315.04087	89.08986	91.39256	3.42700	0.1315555	2.3956310	81	3	1993-2000	0.60	M-v	2	Williams	38759	1993 FC ₁₃
1993 FK ₁₃	14.3	0.15	20000226	215.57113	272.36275	43.36368	7.04828	0.1266890	2.3435158	48	3	1993-2000	0.70	M-v	4	Williams	39519	1993 FK ₁₃
1993 FP ₁₃	15.5	0.15	20000226	65.34374	47.52278	40.60833	7.80071	0.0663068	2.3402957	40	3	1993-2000	0.64	M-v	2	Williams	39519	1993 FP ₁₃
1993 FR ₁₃	15.1	0.15	20000226	27.73211	46.63515	50.66876	6.16013	0.1200429	2.3922967	51	3	1993-2000	0.61	M-v	3	Williams	39519	1993 FR ₁₃
1993 FS ₁₃	13.5	0.15	20000226	246.03840	256.75466	52.96246	6.01382	0.1578532	2.3004752	54	4	1993-2000	0.64	M-v	1	Williams	39519	1993 FS ₁₃
1993 FV ₁₃	13.8	0.15	20000226	60.24527	330.34097	23.71640	15.20900	0.1492986	2.6267398	99	2	1993-2000	0.47	M-v	4	Williams	38760	1993 FV ₁₃
1993 FO ₁₄	16.1	0.15	20000226	326.88694	132.31341	69.91918	4.40366	0.1645626	2.3339809	41	3	1993-2000	0.67	M-v	4	Williams	39154	1993 FO ₁₄
1993 FP ₁₄	14.2	0.15	20000226	289.64116	249.38660	38.30616	7.35818	0.1695445	2.2642874	40	3	1993-2000	0.57	M-v	3	Williams	39519	1993 FP ₁₄
1993 FK ₁₅	15.4	0.15	20000226	0.89546	74.49488	112.23992	4.92035	0.0896108	2.2859133	36	2	1993-2000	0.62	M-v	5	Williams	39154	1993 FK ₁₅
1993 FD ₁₆	14.1	0.15	20000226	105.27114	251.51441	53.15570	8.00899	0.1676908	2.6922834	60	3	1993-1999	0.58	M-v	3	Williams	38028	1993 FD ₁₆
1993 FH ₁₆	15.4	0.15	20000226	350.32931	39.42297	106.60061	3.27773	0.1206872	2.3850327	32	3	1993-2000	0.66	M-v	4	Williams	38760	1993 FH ₁₆
1993 FX ₁₆	15.2	0.15	20000226	222.82745	150.13855	167.05389	7.28172	0.1347432	2.3309710	53	3	1993-2000	0.66	M-v	4	Williams	39519	1993 FX ₁₆

1993 FB ₁₉	14.6	0.15	20000226	57.51777	273.31373	144.41186	6.58884	0.0838957	2.4437847	33	4	1991-2000	0.64	M-v	1	Williams	38760	1993 FB ₁₉
1993 FT ₁₉	13.9	0.15	20000226	211.41553	279.33556	48.27694	7.91024	0.2241219	2.3575444	45	3	1993-2000	0.67	M-v	4	Williams	39519	1993 FT ₁₉
1993 FY ₁₉	14.5	0.15	20000226	329.87337	318.17783	144.26692	7.33691	0.0788309	2.5551672	35	3	1993-2000	0.54	M-v	2	Williams	38443	1993 FY ₁₉
1993 FE ₂₀	14.8	0.15	20000226	42.47937	339.05687	104.25342	5.32900	0.0619957	2.4191562	65	3	1993-2000	0.66	M-v	3	Williams	38760	1993 FE ₂₀
1993 FO ₂₀	15.1	0.15	20000226	295.81202	105.09170	122.02289	3.25989	0.0788678	2.3568985	52	3	1993-2000	0.51	M-v	3	Williams	39519	1993 FO ₂₀
1993 FB ₂₂	15.1	0.15	20000226	44.55585	74.14113	8.16986	1.17930	0.1565248	2.3962890	62	3	1991-2000	0.61	M-v	3	Williams	39519	1993 FB ₂₂
1993 FE ₂₂	15.7	0.15	20000226	250.99265	53.89103	224.54401	1.10153	0.1617620	2.3799230	44	3	1993-2000	0.56	M-v	4	Williams	39519	1993 FE ₂₂
1993 FU ₂₂	16.1	0.15	20000226	300.80452	276.33855	323.45107	1.55160	0.1819979	2.3413073	40	2	1993-2000	0.58	M-v	4	Williams	39154	1993 FU ₂₂
1993 FX ₂₂	15.0	0.15	20000226	306.08603	296.21386	299.75322	1.43764	0.1782097	2.3356330	42	2	1993-2000	0.59	M-v	5	Williams	39155	1993 FX ₂₂
1993 FO ₂₃	14.0	0.15	20000226	195.33552	16.88124	200.93330	11.99148	0.1122176	2.6595632	55	2	1993-1999	0.66	M-v	4	Williams	38028	1993 FO ₂₃
1993 FQ ₂₃	15.0	0.15	20000226	171.10381	180.13338	210.44597	6.09959	0.0927665	2.2639147	20	3	1993-2000	0.52	M-v	4	Williams	34188	1993 FQ ₂₃
1993 FF ₂₅	15.1	0.15	20000226	6.87925	338.49989	204.30049	4.99264	0.0979248	2.2847595	62	5	1986-2000	0.58	M-v	2	Williams	34845	1993 FF ₂₅
1993 FJ ₂₅	14.6	0.15	20000226	323.36925	92.63520	349.39703	3.71979	0.0373674	2.6488009	30	2	1993-1999	0.65	M-v	5	Williams	36882	1993 FJ ₂₅
1993 FJ ₂₆	14.1	0.15	20000226	129.69864	329.55810	311.53831	4.25937	0.1906925	2.7069263	23	2	1993-1999	0.53	M-v	5	Williams	37263	1993 FJ ₂₆
1993 FQ ₂₆	15.1	0.15	20000226	305.08180	297.05805	311.57532	1.99524	0.1609498	2.3094699	40	2	1993-2000	0.43	M-v	5	Williams	39155	1993 FQ ₂₆
1993 FS ₂₆	13.4	0.15	20000226	290.28520	287.97172	285.80435	2.60516	0.0853896	2.3973641	133	4	1993-2000	0.62	M-v	3	Williams	39519	1993 FS ₂₆
1993 FS ₂₇	13.9	0.15	20000226	9.46891	156.07650	211.61429	6.03677	0.0785935	2.7370581	79	4	1993-1999	0.55	M-v	2	Williams	36882	1993 FS ₂₇
1993 FV ₂₇	14.9	0.15	20000226	42.56318	215.74799	293.36832	1.77116	0.0567891	2.2686212	28	5	1993-2000	0.77	M-v	1	Williams	33548	1993 FV ₂₇
1993 FA ₂₈	14.7	0.15	20000226	159.17277	51.18880	341.68159	4.67002	0.0895397	2.2675922	30	3	1993-2000	0.66	M-v	4	Williams	33548	1993 FA ₂₈
1993 FS ₂₈	14.8	0.15	20000226	60.30192	222.41077	251.89470	2.87084	0.1200835	2.2886949	26	3	1993-2000	0.49	M-v	2	Williams	34580	1993 FS ₂₈
1993 FK ₂₉	14.6	0.15	20000226	356.80344	199.42050	200.86408	14.27144	0.1202919	2.6445709	47	3	1993-1999	0.61	M-v	3	Williams	37263	1993 FK ₂₉
1993 FP ₂₉	12.9	0.15	20000226	225.19802	3.94084	202.51983	13.18070	0.1141278	2.5792777	63	2	1993-2000	0.58	M-v	3	Williams	38760	1993 FP ₂₉
1993 FX ₂₉	14.9	0.15	20000226	317.51275	309.12114	249.36428	4.25310	0.0477655	2.3567741	31	3	1993-2000	0.61	M-v	4	Williams	39519	1993 FX ₂₉
1993 FD ₃₀	14.6	0.15	20000226	39.81034	106.69669	232.39882	5.19713	0.0912636	2.7510999	33	3	1993-1999	0.71	M-v	4	Williams	36333	1993 FD ₃₀
1993 FO ₃₁	16.1	0.15	20000226	260.05719	258.04799	28.00138	2.94733	0.0761507	2.3172347	28	3	1993-2000	0.49	M-v	5	Williams	39519	1993 FO ₃₁
1993 FS ₃₁	14.2	0.15	20000226	214.11215	240.69500	51.88199	4.62328	0.0746407	2.4052927	85	3	1993-2000	0.70	M-v	3	Williams	39519	1993 FS ₃₁
1993 FM ₃₂	14.7	0.15	20000226	212.33757	346.97899	313.22774	5.56268	0.1657328	2.4069884	29	3	1993-2000	0.67	M-v	3	Williams	39155	1993 FM ₃₂
1993 FC ₃₃	16.0	0.15	20000226	292.66091	94.42394	131.03949	3.17086	0.1218847	2.3742831	31	2	1993-2000	0.46	M-v	4	Williams	39519	1993 FC ₃₃
1993 FP ₃₃	14.5	0.15	20000226	9.55923	290.25086	140.07663	3.75523	0.1332442	2.5225032	62	2	1993-2000	0.50	M-v	4	Williams	38760	1993 FP ₃₃
1993 FV ₃₃	13.8	0.15	20000226	353.62500	266.38597	162.19948	7.24208	0.1667749	2.5635956	58	2	1993-2000	0.53	M-v	3	Williams	38029	1993 FV ₃₃
1993 FH ₃₄	14.8	0.15	20000226	334.51513	49.86267	39.88764	5.90179	0.0244792	2.5998004	46	2	1993-1999	0.59	M-v	4	Williams	38760	1993 FH ₃₄
1993 FL ₃₄	12.4	0.15	20000226	334.98341	197.18848	44.31402	6.80415	0.0330150	3.4594798	38	4	1989-2000	0.61	M-v	1	Williams	34289	1993 FL ₃₄
1993 FQ ₃₅	14.4	0.15	20000226	82.83567	357.12967	37.92346	3.42783	0.1889082	2.4349022	47	3	1993-2000	0.72	M-v	2	Williams	39519	1993 FQ ₃₅
1993 FY ₃₅	14.1	0.15	20000226	326.65081	70.90500	17.61418	13.93678	0.1330929	2.5901410	68	2	1993-1999	0.61	M-v	4	Williams	38760	1993 FY ₃₅
1993 FD ₃₇	14.4	0.15	20000226	334.33554	290.86419	173.51881	2.99188	0.1064805	2.5275526	63	3	1993-2000	0.59	M-v	2	Williams	38760	1993 FD ₃₇
1993 FJ ₃₇	14.4	0.15	20000226	86.17075	285.97279	18.46853	8.47686	0.0990402	2.7462965	51	2	1993-1999	0.61	M-v	4	Williams	38444	1993 FJ ₃₇
1993 FX ₃₇	13.5	0.15	20000226	92.73980	271.39057	43.30897	2.84031	0.0814806	2.6863222	64	3	1981-2000	0.51	M-v	2	Williams	38029	1993 FX ₃₇
1993 FJ ₄₀	14.2	0.15	20000226	62.07639	314.93937	170.13012	5.70551	0.0505509	2.2783738	36	3	1993-2000	0.49	M-v	1	Williams	38760	1993 FJ ₄₀
1993 FT ₄₂	14.6	0.15	20000226	14.08917	81.13616	29.05326	2.39246	0.1676932	2.3913038	69	3	1993-2000	0.53	M-v	2	Williams	39519	1993 FT ₄₂
1993 FA ₄₅	14.7	0.15	20000226	267.28045	269.10840	10.51174	4.46306	0.2681537	2.3509326	35	3	1990-2000	0.45	M-v	3	Williams	39519	1993 FA ₄₅
1993 FR ₄₅	15.3	0.15	20000226	330.99709	254.43043	180.88857	17.68191	0.2133768	2.5729421	25	2	1993-1999	0.63	M-v	4	Williams	39155	1993 FR ₄₅
1993 FS ₄₆	14.9	0.15	20000226	48.22356	288.73260	180.34778	5.22606	0.0916127	2.3244268	72	3	1993-2000	0.70	M-v	3	Williams	39519	1993 FS ₄₆
1993 FQ ₄₈	15.1	0.15	20000226	284.84216	272.88102	3.05114	4.38625	0.1552488	2.2913134	56	2	1993-2000	0.53	M-v	5	Williams	39156	1993 FQ ₄₈
1993 FU ₄₉	14.6	0.15	20000226	332.91728	208.98070	237.29472	1.56715	0.0666723	2.5785694	67	2	1993-2000	0.57	M-v	4	Williams	38029	1993 FU ₄₉
1993 FW ₄₉	14.5	0.15	20000226	112.65954	338.14284	336.05421	1.71956	0.0825609	2.5980875	67	2	1993-1999	0.62	M-v	4	Williams	38029	1993 FW ₄₉
1993 FZ ₄₉	15.6	0.15	20000226	296.40093	282.37144	347.28087	2.53582	0.1464523	2.2778288	21	4	1993-2000	0.51	M-v	1	Williams	30471	1993 FZ ₄₉
1993 FF ₅₀	15.2	0.15	20000226	261.84340	319.56572	338.23409	2.01331	0.2115413	2.3076803	27	2	1993-2000	0.57	M-v	5	Williams	39156	1993 FF ₅₀
1993 FG ₅₀	15.3	0.15	20000226	260.68268	298.25267	322.82252	1.94894	0.1425097	2.3736437	43	2	1993-2000	0.58	M-v	4	Williams	39519	1993 FG ₅₀
1993 FO ₅₀	15.9	0.15	20000226	47.88218	143.97663	330.95963	1.26917	0.0966976	2.3143996	28	3	1993-2000	0.68	M-v	4	Williams	32931	1993 FO ₅₀
1993 FV ₅₀	15.6	0.15	20000226	1.97287	262.03677	234.11622	1.43045	0.1619253	2.3640982	71	2	1993-2000	0.55	M-v	3	Williams	39519	1993 FV ₅₀
1993 FT ₅₆	14.6	0.15	20000226	298.09398	115.86445	125.67464	4.98970	0.1196614	2.3278183	43	2	1993-2000	0.59	M-v	4	Williams	39519	1993 FT ₅₆
1993 FN ₆₂	14.7	0.15	20000226	14.75834	345.25656	57.02658	5.14249	0.2399627	2.5737399	67	3	1991-2000	0.48	M-v	2	Williams	38029	1993 FN ₆₂
1993 FD ₆₇	14.2	0.15	20000226	49.30159	72.77536	277.17372	1.74406	0.2075542	2.6933848	80	3	1993-2000	0.65	M-v	2	Williams	38029	1993 FD ₆₇

1993 FV ₈₀	14.7	0.15	20000226	76.59597	281.93694	45.69611	2.58768	0.1820045	2.6817400	85	3	1993–1999	0.68	M-v	3	Williams	38760	1993 FV ₈₀
1993 FY ₈₀	15.3	0.15	20000226	66.48621	235.28345	123.67047	1.69486	0.0785491	2.5814849	35	3	1993–1999	0.61	M-v	4	Williams	38444	1993 FY ₈₀
1993 FK ₈₂	14.7	0.15	20000226	56.77774	124.31672	191.27058	8.95430	0.1426692	2.8035312	40	3	1993–1999	0.69	M-v	3	Williams	39156	1993 FK ₈₂
1993 GC	13.0	0.15	20000226	183.54708	20.90564	200.46164	12.29841	0.1076127	2.6953574	111	3	1993–2000	0.62	M-v	3	Williams	38761	1993 GC
1993 HX	13.8	0.15	20000226	235.12898	145.15820	133.70938	3.05083	0.0457797	2.4080559	131	3	1993–2000	0.64	M-v	1	Williams	39520	1993 HX
1993 HE ₁	15.0	0.15	20000226	337.09039	203.21505	28.97653	7.47483	0.2215553	2.2935957	42	2	1993–2000	0.53	M-v	3	Williams	39156	1993 HE ₁
1993 HW ₁	13.5	0.15	20000226	319.21725	176.64716	76.02208	12.51743	0.2053853	2.2990389	58	5	1989–2000	0.63	M-v	2	Williams	39520	1993 HW ₁
1993 HT ₂	16.4	0.15	20000226	43.37687	286.88138	158.92899	6.30795	0.1629521	2.3951644	27	2	1993–2000	0.67	M-v	5	Williams	39156	1993 HT ₂
1993 HU ₂	15.2	0.15	20000226	9.62899	29.61964	159.16379	4.98296	0.1475559	2.2741809	27	3	1986–2000	0.74	M-v	4	Williams	34846	1993 HU ₂
1993 KZ ₁	13.1	0.15	20000226	307.77611	169.26107	89.94626	25.56313	0.2007128	2.3474365	64	4	1993–2000	0.81	M-v	3	Williams	39520	1993 KZ ₁
1993 LF	12.2	0.15	20000226	205.06818	183.50029	119.55687	15.58928	0.1097643	2.5526655	78	3	1993–2000	0.55	M-v	2	Williams	39520	1993 LF
1993 LC ₁	16.2	0.15	20000226	100.79994	274.03415	38.70402	21.58681	0.0803629	1.9544422	29	2	1993–1999	0.64	M-v	4	Williams	38029	1993 LC ₁
1993 LF ₁	13.3	0.15	20000226	219.35499	279.58104	330.91676	12.03852	0.1469944	2.5604973	48	3	1993–2000	0.55	M-v	3	Williams	38761	1993 LF ₁
1993 MT	14.7	0.15	20000226	29.27912	253.18557	148.33269	2.59103	0.0731648	2.8801849	50	2	1993–1999	0.58	M-v	4	Williams	38444	1993 MT
1993 MB ₁	12.4	0.15	20000226	232.99121	121.05022	131.78885	13.59374	0.1418516	2.5683187	61	3	1993–2000	0.50	M-v	2	Williams	39520	1993 MB ₁
1993 NJ ₁	15.4	0.15	20000226	277.42907	170.04474	132.96682	3.28417	0.1715819	2.3912627	38	4	1993–2000	0.75	M-v	1	Williams	33549	1993 NJ ₁
1993 NS ₁	13.9	0.15	20000226	15.14864	271.76993	117.38984	8.68498	0.2751024	3.0857575	46	3	1989–2000	0.64	M-v	3	Williams	38761	1993 NS ₁
1993 NW ₁	14.0	0.15	20000226	120.76741	79.86017	215.51497	1.52704	0.0386718	2.8998607	71	4	1993–1999	0.66	M-v	1	Williams	38761	1993 NW ₁
1993 OU ₁	15.0	0.15	20000226	13.85088	229.67694	157.95994	5.39712	0.2265211	3.1605574	42	2	1993–1999	0.56	M-v	4	Williams	37636	1993 OU ₁
1993 OD ₂	12.6	0.15	20000226	215.61855	169.92047	140.16288	16.09134	0.2317543	2.5944583	72	3	1993–2000	0.53	M-v	2	Williams	39520	1993 OD ₂
1993 OF ₃	15.5	0.15	20000226	287.01121	318.31449	326.38244	1.20949	0.1271995	2.4050412	59	4	1992–2000	0.62	M-v	1	Williams	31276	1993 OF ₃
1993 OQ ₄	15.4	0.15	20000226	329.86243	97.98790	144.19457	2.65437	0.1752541	2.3757808	29	4	1993–2000	0.45	M-v	1	Williams	30782	1993 OQ ₄
1993 OK ₇	14.6	0.15	20000226	144.84260	33.27192	331.90605	1.54400	0.1114265	2.6240976	54	4	1981–2000	0.55	M-v	1	Williams	39157	1993 OK ₇
1993 OJ ₈	14.1	0.15	20000226	289.04771	36.65673	229.79108	1.36933	0.1677130	2.4285949	79	3	1993–2000	0.55	M-v	3	Williams	39157	1993 OJ ₈
1993 OM ₈	13.6	0.15	20000226	49.78267	136.40308	203.19544	1.90174	0.1272123	3.0602854	81	4	1993–1999	0.69	M-v	2	Williams	38029	1993 OM ₈
1993 OY ₉	13.2	0.15	20000226	338.78908	126.02369	300.10907	9.24337	0.0954222	2.9888607	73	3	1993–2000	0.55	M-v	2	Williams	38029	1993 OY ₉
1993 OY ₁₂	13.3	0.15	20000226	274.28058	301.26435	286.83501	13.76358	0.0764472	2.5694537	85	2	1993–2000	0.62	M-v	4	Williams	39520	1993 OY ₁₂
1993 PF	13.8	0.15	20000226	104.33864	138.83945	281.90979	14.00225	0.0583733	2.5706037	38	4	1993–2000	0.69	M-v	1	Williams	38761	1993 PF
1993 PA ₃	12.5	0.15	20000226	148.54126	257.30368	307.32723	17.94791	0.1169970	3.2256037	32	3	1991–1999	0.65	M-v	3	Williams	38029	1993 PA ₃
1993 PY ₃	13.0	0.15	20000226	224.45983	142.45103	157.89296	13.45570	0.1626717	2.5757963	95	4	1993–2000	0.50	M-v	1	Williams	39157	1993 PY ₃
1993 QA ₁	13.6	0.15	20000226	144.20655	246.36083	125.89534	11.23049	0.2326023	2.6860444	34	3	1993–2000	0.60	M-v	3	Williams	39520	1993 QA ₁
1993 QV ₁	13.9	0.15	20000226	154.64337	157.46953	205.09232	1.77681	0.0982532	2.6837054	64	3	1993–2000	0.67	M-v	4	Williams	39520	1993 QV ₁
1993 QH ₄	13.5	0.15	20000226	32.89554	248.11752	128.40676	2.20260	0.2273614	3.1800252	79	3	1993–2000	0.63	M-v	2	Williams	38761	1993 QH ₄
1993 QM ₄	14.2	0.15	20000226	84.82960	72.58485	10.90547	1.96343	0.0591354	2.6702395	88	4	1993–2000	0.58	M-v	2	Williams	39520	1993 QM ₄
1993 QO ₄	13.9	0.15	20000226	59.43040	211.82671	149.77974	1.78822	0.2202260	3.0934872	69	3	1993–1999	0.77	M-v	2	Williams	38761	1993 QO ₄
1993 QR ₄	13.9	0.15	20000226	90.91958	98.55598	12.37759	3.53448	0.0794593	2.5667904	50	6	1989–2000	0.88	M-v	1	Williams	33746	1993 QR ₄
1993 QU ₄	13.6	0.15	20000226	241.60196	152.31964	159.54973	11.12253	0.1120897	2.5490125	58	4	1989–2000	0.59	M-v	3	Williams	39520	1993 QU ₄
1993 QP ₆	14.0	0.15	20000226	61.83479	216.23779	160.52742	8.84193	0.1230839	3.0114823	36	3	1993–2000	0.81	M-v	2	Williams	38445	1993 QP ₆
1993 QA ₉	14.7	0.15	20000226	304.39221	132.63693	140.90781	1.33869	0.1790411	2.4443039	31	3	1993–2000	0.76	M-v	3	Williams	30897	1993 QA ₉
1993 RD ₂	12.7	0.15	20000226	217.43226	152.72235	174.81040	15.33136	0.1238837	2.6053986	87	3	1993–2000	0.59	M-v	2	Williams	39520	1993 RD ₂
1993 RA ₃	13.2	0.15	20000226	199.04207	99.85503	203.56091	12.22720	0.1709110	2.6833877	40	3	1993–2000	0.71	M-v	3	Williams	39520	1993 RA ₃
1993 RU ₃	12.9	0.15	20000226	224.41633	5.36185	253.68523	11.65724	0.1104832	2.7127065	37	3	1993–2000	0.57	M-v	2	Williams	37636	1993 RU ₃
1993 RC ₅	13.6	0.15	20000226	21.58691	181.54042	212.91651	2.89384	0.1078655	3.1957660	72	2	1993–2000	0.56	M-v	3	Williams	38761	1993 RC ₅
1993 SN ₇	13.7	0.15	20000226	8.36127	113.64346	318.90456	1.22522	0.1342886	3.1276812	84	3	1993–2000	0.58	M-v	2	Williams	39520	1993 SN ₇
1993 SA ₁₄	14.8	0.15	20000226	92.88912	63.37122	359.78301	19.49344	0.1045156	1.9285346	72	2	1993–2000	0.57	M-v	4	Williams	39158	1993 SA ₁₄
1993 TR ₁	12.1	0.15	20000226	42.60046	358.84331	33.64347	13.85356	0.0576992	3.1674379	62	3	1993–2000	0.76	M-v	2	Williams	38761	1993 TR ₁
1993 TV ₃	14.1	0.15	20000226	48.93754	35.65072	355.21389	4.91831	0.1655842	3.1286742	33	3	1993–2000	0.68	M-v	2	Williams	37637	1993 TV ₃
1993 TH ₄	13.7	0.15	20000226	133.67184	36.86877	350.64051	3.34184	0.1044811	2.7723825	62	3	1993–2000	0.54	M-v	4	Williams	39520	1993 TH ₄
1993 TM ₄	13.5	0.15	20000226	260.28015	292.76598	228.77305	12.28501	0.0113554	3.2651340	60	3	1993–1999	0.54	M-v	3	Williams	39158	1993 TM ₄
1993 TW ₈	13.5	0.15	20000226	178.18577	354.58690	17.98758	14.50601	0.2548215	2.6645700	76	3	1993–2000	0.67	M-v	3	Williams	39520	1993 TW ₈
1993 TV ₁₂	13.1	0.15	20000226	75.47688	47.13491	43.03828	9.67349	0.1407386	2.7979058	87	3	1993–2000	0.64	M-v	2	Williams	39520	1993 TV ₁₂
1993 TX ₁₄	14.9	0.15	20000226	57.80553	221.12398	142.06406	1.41375	0.1848712	3.1636950	53	3	1993–1999	0.68	M-v	4	Williams	38761	1993 TX ₁₄
1993 TO ₁₅	14.2	0.15	20000226	121.67966	204.82534	195.89540	2.18340	0.0821300	2.7605000	55	6	1988–2000	0.67	M-v	1	Williams	39520	1993 TO ₁₅

1993 TS ₁₅	14.4	0.15	20000226	161.33728	215.57868	153.94391	2.42210	0.2007228	2.7063628	30	3	1984–2000	0.70	M-v	4	Williams	30900	1993 TS ₁₅
1993 TV ₁₅	16.1	0.15	20000226	223.12057	314.17923	26.67081	4.01335	0.2271864	2.5634418	22	3	1993–2000	0.76	M-v	5	Williams	35688	1993 TV ₁₅
1993 TA ₁₆	14.1	0.15	20000226	356.81454	324.45590	110.17411	2.04361	0.1575268	3.2155361	43	2	1993–2000	0.68	M-v	4	Williams	38446	1993 TA ₁₆
1993 TB ₁₆	14.2	0.15	20000226	79.71269	290.43266	34.65637	2.49525	0.1648382	3.2044045	49	2	1993–1999	0.71	M-v	4	Williams	39158	1993 TB ₁₆
1993 TZ ₁₆	15.2	0.15	20000226	173.69785	170.05214	180.66179	5.01222	0.1232231	2.7196858	18	3	1979–2000	0.72	M-v	5	Williams	23240	1993 TZ ₁₆
1993 TK ₁₇	13.8	0.15	20000226	58.43019	322.88846	24.78205	22.30400	0.0622836	3.2561888	60	2	1993–1999	0.61	M-v	4	Williams	38761	1993 TK ₁₇
1993 TV ₁₇	14.1	0.15	20000226	32.16701	19.70241	32.52996	10.80722	0.2196766	3.1357770	30	2	1993–2000	0.71	M-v	4	Williams	39158	1993 TV ₁₇
1993 TW ₁₇	15.4	0.15	20000226	142.85276	229.17600	192.16009	13.08437	0.2449830	2.6625887	24	3	1993–2000	0.83	M-v	4	Williams	33938	1993 TW ₁₇
1993 TG ₁₈	14.8	0.15	20000226	352.66473	259.31904	185.46188	4.64123	0.1524918	3.1969474	37	2	1993–1999	0.53	M-v	4	Williams	39158	1993 TG ₁₈
1993 TV ₁₉	13.2	0.15	20000226	186.66508	213.32991	84.10320	3.43908	0.0182416	2.8896212	101	3	1993–2000	0.55	M-v	3	Williams	38761	1993 TV ₁₉
1993 TJ ₂₁	12.5	0.15	20000226	204.21118	200.74594	25.83268	17.84369	0.1378296	3.1106737	55	3	1991–2000	0.75	M-v	3	Williams	38761	1993 TJ ₂₁
1993 TM ₂₂	13.7	0.15	20000226	49.91077	268.45035	181.32345	8.99874	0.0218890	2.8492672	40	3	1993–2000	0.79	M-v	2	Williams	38446	1993 TM ₂₂
1993 TH ₂₄	14.0	0.15	20000226	137.51722	289.69700	63.76313	3.17543	0.0757597	2.8630262	42	3	1993–2000	0.70	M-v	4	Williams	39520	1993 TH ₂₄
1993 TM ₂₆	14.6	0.15	20000226	53.55417	322.16254	177.83505	8.64749	0.0365888	2.6633146	30	4	1993–2000	0.73	M-v	1	Williams	33747	1993 TM ₂₆
1993 TV ₂₇	14.1	0.15	20000226	94.94908	348.01248	97.67104	2.52844	0.0398856	2.7116201	44	3	1993–2000	0.59	M-v	4	Williams	33486	1993 TV ₂₇
1993 TH ₂₈	14.0	0.15	20000226	145.56290	198.81978	186.63319	9.89324	0.1918751	2.7360413	25	2	1993–2000	0.70	M-v	5	Williams	39159	1993 TH ₂₈
1993 TL ₂₈	14.1	0.15	20000226	359.09055	357.52733	122.38618	2.41114	0.1632572	3.0231461	45	3	1993–2000	0.67	M-v	3	Williams	39520	1993 TL ₂₈
1993 TZ ₂₉	15.5	0.15	20000226	331.51543	73.58437	81.42075	3.24309	0.0120894	2.9130763	51	3	1993–2000	0.79	M-v	5	Williams	38762	1993 TZ ₂₉
1993 TF ₃₀	13.7	0.15	20000226	76.59629	315.73684	37.25072	18.66772	0.1370357	3.1312587	20	2	1993–1999	0.71	M-v	4	Williams	39159	1993 TF ₃₀
1993 TS ₃₁	15.0	0.15	20000226	139.78990	230.53868	151.25925	4.04611	0.1035364	2.7714996	26	3	1993–2000	0.74	M-v	4	Williams	35689	1993 TS ₃₁
1993 TL ₃₂	14.3	0.15	20000226	176.75545	250.84058	114.91124	2.67078	0.0892613	2.6886881	54	4	1993–2000	0.66	M-v	2	Williams	39520	1993 TL ₃₂
1993 TK ₃₃	14.1	0.15	20000226	160.50196	304.69822	70.41055	5.06047	0.1053307	2.7172205	62	5	1975–2000	0.57	M-v	1	Williams	39520	1993 TK ₃₃
1993 TX ₃₃	13.6	0.15	20000226	328.86225	302.43194	176.53715	10.89145	0.1248454	3.1734663	46	3	1993–1999	0.72	M-v	4	Williams	39159	1993 TX ₃₃
1993 TY ₃₄	15.0	0.15	20000226	251.35907	273.92157	35.49616	4.01223	0.1574626	2.5713895	20	3	1993–2000	0.61	M-v	4	Williams	27557	1993 TY ₃₄
1993 TJ ₃₈	14.5	0.15	20000226	144.09705	251.46876	182.25083	10.66972	0.0312440	2.5986228	20	4	1993–2000	0.79	M-v	2	Williams	35689	1993 TJ ₃₈
1993 TJ ₃₈	14.1	0.15	20000226	115.04761	347.58566	72.72585	6.25223	0.1545150	2.7637092	46	3	1993–2000	0.73	M-v	3	Williams	39520	1993 TJ ₃₈
1993 TJ ₃₉	13.8	0.15	20000226	54.53188	33.89374	87.78327	7.59271	0.0637800	2.7584148	42	3	1993–2000	0.63	M-v	2	Williams	39520	1993 TJ ₃₉
1993 UE	13.8	0.15	20000226	264.30248	225.39761	117.23367	13.30931	0.2095618	2.4304628	35	5	1989–2000	0.76	M-v	2	Williams	34010	1993 UE
1993 UF	14.0	0.15	20000226	240.13346	218.70158	131.87414	15.23980	0.1808356	2.4855071	28	3	1993–2000	0.63	M-v	4	Williams	33939	1993 UF
1993 UK	12.7	0.15	20000226	164.93416	254.92390	80.70231	3.32548	0.0667381	2.8536102	119	3	1993–2000	0.70	M-v	3	Williams	39520	1993 UK
1993 UX ₂	14.4	0.15	20000226	123.55117	300.36060	106.69509	14.39343	0.1896464	2.7315141	23	3	1993–2000	0.67	M-v	3	Williams	33687	1993 UX ₂
1993 UY ₂	12.5	0.15	20000226	59.59730	295.91946	52.42504	23.65107	0.1781422	3.1691920	75	2	1993–2000	0.44	M-v	3	Williams	38762	1993 UY ₂
1993 UZ ₂	13.6	0.15	20000226	160.94387	308.97600	83.30042	30.15308	0.2547427	2.6619374	25	3	1993–2000	0.69	M-v	3	Williams	34191	1993 UZ ₂
1993 UW ₆	13.3	0.15	20000226	128.41014	234.47364	97.88358	6.17039	0.1138155	3.0052654	53	3	1993–2000	0.67	M-v	3	Williams	38762	1993 UW ₆
1993 UZ ₆	14.4	0.15	20000226	341.61306	72.60023	125.74265	5.15343	0.0333886	2.7341807	24	3	1993–2000	0.65	M-v	4	Williams	35689	1993 UZ ₆
1993 UM ₈	14.0	0.15	20000226	145.03878	259.47509	185.54924	14.80080	0.1036156	2.5929187	42	6	1972–2000	0.68	M-v	1	Williams	34290	1993 UM ₈
1993 UW ₈	14.0	0.15	20000226	282.07671	200.65634	85.90346	5.32292	0.1778810	2.5621277	34	3	1993–2000	0.60	M-v	3	Williams	27558	1993 UW ₈
1993 VT ₂	13.6	0.15	20000226	231.99128	294.97777	91.39446	22.65678	0.2958182	2.4258769	18	4	1953–1999	0.67	M-v	2	Williams	39159	1993 VT ₂
1993 VG ₄	12.6	0.15	20000226	173.88964	53.37416	246.09342	9.18410	0.0914454	3.0164572	41	3	1993–2000	0.73	M-v	3	Williams	39159	1993 VG ₄
1993 XH	15.3	0.15	20000226	311.02870	306.43058	136.02054	5.38306	0.1573668	2.2172297	20	3	1993–1999	0.46	M-v	3	Williams	36070	1993 XH
1993 XQ	13.2	0.15	20000226	115.80926	179.90102	223.17176	1.19108	0.0968599	2.9272927	72	3	1993–2000	0.58	M-v	4	Williams	39521	1993 XQ
1993 XW	12.4	0.15	20000226	86.35009	313.30122	87.23355	23.06319	0.1011239	3.1495002	67	3	1993–2000	0.54	M-v	2	Williams	39159	1993 XW
1993 XJ ₁	13.2	0.15	20000226	143.04520	334.35700	81.25160	6.97953	0.1069085	2.7547054	36	3	1993–2000	0.71	M-v	3	Williams	34010	1993 XJ ₁
1993 XK ₃	13.8	0.15	20000226	160.68930	328.97305	67.64191	24.60279	0.0848066	1.9339572	23	3	1993–2000	0.66	M-v	4	Williams	33687	1993 XK ₃
1994 AC	14.4	0.15	20000226	4.33357	160.54830	255.32201	3.15462	0.0931119	2.1784688	117	4	1991–1999	0.53	M-v	2	Williams	38030	1994 AC
1994 AM	12.9	0.15	20000226	292.44796	313.80951	277.32976	14.64297	0.2031315	3.1243030	59	3	1994–2000	0.60	M-v	3	Williams	39521	1994 AM
1994 AF ₃	12.6	0.15	20000226	83.34746	155.85746	284.76060	11.48056	0.1849022	3.0535195	51	4	1989–2000	0.72	M-v	2	Williams	39521	1994 AF ₃
1994 AQ ₅	14.9	0.15	20000226	319.97705	204.35555	15.89262	0.87887	0.1033414	3.0607863	36	2	1994–2000	0.68	M-v	5	Williams	39160	1994 AQ ₅
1994 AN ₉	12.5	0.15	20000226	87.88304	326.18604	113.12002	25.42177	0.0719481	3.0500112	55	3	1994–2000	0.67	M-v	3	Williams	39521	1994 AN ₉
1994 AV ₁₀	15.3	0.15	20000226	356.36827	67.09189	341.23147	4.31962	0.1335779	2.2451569	45	3	1994–1999	0.72	M-v	3	Williams	38031	1994 AV ₁₀
1994 AD ₁₁	12.6	0.15	20000226	181.54563	57.50475	324.61034	12.39395	0.2061268	2.8424645	55	5	1987–2000	0.71	M-v	1	Williams	35689	1994 AD ₁₁
1994 AN ₁₅	13.4	0.15	20000226	146.14695	70.68641	307.22142	8.00103	0.1757430	3.0038251	40	3	1994–2000	0.85	M-v	4	Williams	39521	1994 AN ₁₅
1994 BD ₁	15.0	0.15	20000226	15.89561	45.13805	7.65892	6.46951	0.1452902	2.1984191	87	2	1994–2000	0.59	M-v	3	Williams	38762	1994 BD ₁

1994 BP ₄	13.0	0.15	20000226	18.52185	63.29513	139.20503	10.21186	0.1656481	2.9928277	56	4	1994-2000	0.64	M-v	1	Williams	35425	1994 BP ₄
1994 CX ₁₀	13.8	0.15	20000226	321.17420	132.56313	105.63736	2.54469	0.1376291	3.1527477	62	5	1994-2000	0.65	M-v	1	Williams	39521	1994 CX ₁₀
1994 CT ₁₃	15.3	0.15	20000226	357.69947	42.29683	22.41829	6.86442	0.0802486	2.2742602	59	2	1994-1999	0.56	M-v	4	Williams	39160	1994 CT ₁₃
1994 CE ₁₄	13.5	0.15	20000226	60.99722	21.31538	127.03105	10.63999	0.0359621	3.0485073	42	4	1994-2000	0.62	M-v	2	Williams	35690	1994 CE ₁₄
1994 CF ₁₆	13.5	0.15	20000226	50.54016	13.25606	118.35602	8.17916	0.0801859	3.1490707	19	3	1979-2000	0.88	M-v	5	Williams	24112	1994 CF ₁₆
1994 ET	15.7	0.15	20000226	37.51011	58.91355	328.24203	7.56749	0.1357755	2.2197855	57	2	1994-1999	0.64	M-v	3	Williams	37265	1994 ET
1994 EW	17.3	0.15	20000226	206.62694	60.22043	246.72949	0.26276	0.1982577	2.1315351	45	3	1994-2000	0.49	M-v	5	Williams	39521	1994 EW
1994 EK ₁	14.4	0.15	20000226	210.73526	187.42506	25.44457	7.42860	0.0600096	2.3439806	71	2	1994-1999	0.42	M-v	3	Williams	38762	1994 EK ₁
1994 EL ₁	13.8	0.15	20000226	39.94503	317.14616	112.78993	4.93124	0.1381319	2.1884533	86	3	1994-2000	0.61	M-v	2	Williams	39521	1994 EL ₁
1994 ER ₅	15.2	0.15	20000226	246.27483	159.49318	35.51949	3.83488	0.1214384	2.2652746	67	2	1994-1999	0.67	M-v	4	Williams	38762	1994 ER ₅
1994 ED ₆	13.4	0.15	20000226	292.55157	145.80683	125.21380	6.29806	0.1379805	3.1600169	25	3	1994-2000	0.86	M-v	4	Williams	35690	1994 ED ₆
1994 EH ₆	15.3	0.15	20000226	293.32568	91.05455	17.26196	7.07550	0.0478950	2.3397299	19	2	1994-1999	0.58	M-v	5	Williams	36335	1994 EH ₆
1994 EJ ₆	15.2	0.15	20000226	18.94766	353.96918	74.39591	4.96617	0.0473233	2.2240323	94	3	1994-2000	0.57	M-v	3	Williams	38762	1994 EJ ₆
1994 EU ₆	14.1	0.15	20000226	101.30760	293.70394	137.94873	13.77838	0.2653286	3.0721416	38	3	1994-2000	0.85	M-v	4	Williams	35690	1994 EU ₆
1994 EC ₇	15.0	0.15	20000226	318.88654	78.74956	36.49815	5.79115	0.1122899	2.2489705	89	2	1994-2000	0.67	M-v	4	Williams	38031	1994 EC ₇
1994 GE	14.7	0.15	20000226	220.32091	115.36793	69.30829	7.10384	0.0673721	2.4180581	28	3	1994-1999	0.63	M-v	3	Williams	36513	1994 GE
1994 GK ₉	14.4	0.15	20000226	258.62838	337.38386	226.80243	5.86327	0.1300527	2.2550566	83	3	1994-2000	0.56	M-v	2	Williams	38762	1994 GK ₉
1994 GO ₉	13.7	0.15	20000226	152.68601	228.78580	96.14028	8.86527	0.1866172	2.2881257	64	3	1994-2000	0.62	M-v	2	Williams	38762	1994 GO ₉
1994 GV ₉	7.4	0.15	20000226	57.93253	300.38631	176.84686	0.56461	0.0608476	43.5581217	39	7	1994-2000	0.68	M-v	3	Marsden	33747	1994 GV ₉
1994 HX	17.3	0.15	20000226	143.70662	184.12207	177.52534	1.22874	0.1749072	2.1885385	34	5	1994-2000	0.71	M-v	2	Williams	32747	1994 HX
1994 HB ₁	16.3	0.15	20000226	22.06897	201.99634	195.06914	4.15908	0.1259864	2.3715221	59	2	1994-1999	0.50	M-v	4	Williams	37638	1994 HB ₁
1994 JB	14.9	0.15	20000226	99.33135	223.03612	65.94397	3.15986	0.1887613	2.5485273	72	3	1994-1999	0.61	M-v	2	Williams	38762	1994 JB
1994 JC	15.1	0.15	20000226	346.50037	137.55624	37.63750	30.97671	0.5142977	3.3748698	61	2	1994-2000	0.80	M-v	2	Williams	38762	1994 JC
1994 JR ₄	15.1	0.15	20000226	108.08120	150.59778	204.79142	2.47713	0.1811989	2.3571721	18	2	1994-2000	0.36	M-v	6	Williams	38447	1994 JR ₄
1994 JV ₄	15.5	0.15	20000226	341.42046	302.30361	176.44327	0.88218	0.1745708	2.2641096	68	2	1994-2000	0.49	M-v	4	Williams	38031	1994 JV ₄
1994 LB ₈	13.0	0.15	20000226	136.40834	13.9107	253.97522	16.58186	0.0979114	2.5495012	82	4	1994-1999	0.60	M-v	2	Williams	38031	1994 LB ₈
1994 NQ	13.6	0.15	20000226	170.92511	238.04249	104.22871	24.08358	0.2771075	2.3589486	29	3	1994-2000	0.68	M-v	3	Williams	39521	1994 NQ
1994 NL ₂	13.4	0.15	20000226	195.87700	94.73887	231.30019	21.33195	0.3474991	2.3109410	21	4	1973-2000	0.71	M-v	2	Williams	33940	1994 NL ₂
1994 PG	13.8	0.15	20000226	336.19441	14.48945	157.69898	12.45398	0.0925163	2.3919109	107	3	1994-2000	0.58	M-v	3	Williams	39521	1994 PG
1994 PM	17.7	0.15	20000226	359.10129	303.42424	139.94354	17.97860	0.7526179	1.4787171	93	4	1994-2000	0.66	M-v	2	Marsden	27456	1994 PM
1994 PN ₁	12.8	0.15	20000226	18.26720	307.36432	108.96125	24.65483	0.1964466	2.7923824	70	3	1994-2000	0.58	M-v	2	Williams	39521	1994 PN ₁
1994 PE ₂	14.2	0.15	20000226	77.35683	14.82719	335.78931	5.31098	0.3017282	2.7021794	46	3	1994-2000	0.78	M-v	3	Williams	38762	1994 PE ₂
1994 PU ₂	15.9	0.15	20000226	107.50582	55.58544	317.22453	2.27966	0.1983781	2.5211014	44	4	1978-2000	0.74	M-v	3	Williams	38762	1994 PU ₂
1994 PB ₃	14.6	0.15	20000226	44.61424	301.22298	158.17279	6.10376	0.0950531	2.4314141	83	3	1994-2000	0.61	M-v	2	Williams	39521	1994 PB ₃
1994 PK ₄	13.9	0.15	20000226	162.38943	252.92251	337.71417	2.63535	0.1366361	2.7469178	58	3	1994-1999	0.55	M-v	4	Williams	36514	1994 PK ₄
1994 PF ₅	14.9	0.15	20000226	213.72309	161.28018	150.34866	6.47023	0.1266343	2.3298226	48	3	1994-2000	0.71	M-v	3	Williams	39521	1994 PF ₅
1994 PN ₅	14.4	0.15	20000226	355.23652	275.33481	150.52703	2.86550	0.0708579	2.7297961	60	3	1994-1999	0.66	M-v	3	Williams	37265	1994 PN ₅
1994 PO ₆	15.5	0.15	20000226	53.27874	158.55446	258.20227	1.32739	0.2041670	2.5976556	21	2	1994-2000	0.76	M-v	6	Williams	38447	1994 PO ₆
1994 PJ ₇	14.5	0.15	20000226	76.25323	168.18675	152.11378	3.25502	0.0696718	2.7957008	45	2	1994-1999	0.67	M-v	5	Williams	38031	1994 PJ ₇
1994 PS ₇	14.4	0.15	20000226	30.23905	141.90864	231.37787	1.70807	0.0979646	2.8049712	57	2	1994-1999	0.63	M-v	4	Williams	36884	1994 PS ₇
1994 PK ₈	14.6	0.15	20000226	262.68533	350.12854	258.05565	1.02997	0.1540321	2.3378424	76	3	1994-2000	0.73	M-v	3	Williams	39521	1994 PK ₈
1994 PQ ₈	16.1	0.15	20000226	195.22109	7.96962	306.68216	0.88555	0.1908550	2.3722496	28	2	1994-2000	0.47	M-v	4	Williams	39521	1994 PQ ₈
1994 PC ₉	14.5	0.15	20000226	35.88137	213.94689	190.89291	0.27983	0.0747767	2.6536368	75	2	1994-1999	0.60	M-v	4	Williams	38031	1994 PC ₉
1994 PC ₁₀	16.3	0.15	20000226	276.87996	253.93612	42.48584	0.88088	0.1456010	2.1962086	25	3	1991-2000	0.77	M-v	4	Williams	24914	1994 PC ₁₀
1994 PF ₁₁	15.0	0.15	20000226	307.43795	262.02735	313.82521	2.33468	0.0563921	2.3390922	50	3	1994-2000	0.61	M-v	4	Williams	39521	1994 PF ₁₁
1994 PG ₁₁	14.7	0.15	20000226	164.89801	189.45325	171.10010	1.28701	0.2295388	2.3774529	47	3	1994-2000	0.95	M-v	4	Williams	39521	1994 PG ₁₁
1994 PL ₁₂	14.3	0.15	20000226	328.00728	268.30006	260.67676	1.48520	0.1341986	2.4263069	64	3	1994-2000	0.70	M-v	3	Williams	39521	1994 PL ₁₂
1994 PQ ₁₅	14.2	0.15	20000226	185.28551	5.80606	312.21790	3.03008	0.2272982	2.3975735	72	5	1992-2000	0.59	M-v	2	Williams	39521	1994 PQ ₁₅
1994 PV ₁₅	13.9	0.15	20000226	276.88415	300.96111	164.52478	6.26493	0.0655610	2.9194436	45	2	1994-1999	0.77	M-v	5	Williams	36336	1994 PV ₁₅
1994 PE ₁₆	15.0	0.15	20000226	66.29666	97.48928	311.86205	4.17874	0.1231347	2.5576911	58	3	1994-2000	0.85	M-v	3	Williams	38763	1994 PE ₁₆
1994 PJ ₁₆	15.3	0.15	20000226	51.45952	44.67684	324.30285	2.85398	0.2043029	2.7599150	49	2	1994-1999	0.67	M-v	4	Williams	39161	1994 PJ ₁₆
1994 PU ₁₆	14.9	0.15	20000226	227.55992	336.31758	321.81669	4.23860	0.1319412	2.3296332	53	3	1994-2000	0.68	M-v	3	Williams	39161	1994 PU ₁₆
1994 PG ₁₈	13.6	0.15	20000226	333.96782	2.81736	157.19202	6.42790	0.0658682	2.4539503	104	3	1994-2000	0.67	M-v	2	Williams	39521	1994 PG ₁₈

1994 PK ₁₈	14.4	0.15	20000226	69.58039	340.70985	333.85615	4.62476	0.1601956	2.8499081	87	4	1994-1999	0.63	M-v	1	Williams	36884	1994 PK ₁₈
1994 PN ₁₉	15.4	0.15	20000226	273.92248	304.32612	318.16482	2.06008	0.1553299	2.2823029	36	2	1994-2000	0.76	M-v	4	Williams	39162	1994 PN ₁₉
1994 PV ₁₉	14.7	0.15	20000226	75.99121	162.33209	290.17059	1.19853	0.1713125	2.4110663	97	4	1991-2000	0.63	M-v	2	Williams	39521	1994 PV ₁₉
1994 PE ₂₀	16.0	0.15	20000226	146.42777	69.96230	279.57517	1.24823	0.2115247	2.4611054	46	3	1994-2000	0.61	M-v	3	Williams	39521	1994 PE ₂₀
1994 PT ₂₀	15.4	0.15	20000226	100.53774	73.20042	314.70061	1.80019	0.2209203	2.5317857	51	3	1994-2000	0.77	M-v	3	Williams	39521	1994 PT ₂₀
1994 PX ₂₀	15.2	0.15	20000226	245.54521	286.60988	341.04444	1.75965	0.1049267	2.3643834	58	3	1994-2000	0.67	M-v	3	Williams	39521	1994 PX ₂₀
1994 PX ₂₁	14.9	0.15	20000226	70.75847	11.40086	330.86656	3.90126	0.0700402	2.7631585	32	2	1994-1999	0.81	M-v	5	Williams	36792	1994 PX ₂₁
1994 PG ₂₄	14.7	0.15	20000226	76.25122	304.92247	139.57405	1.77261	0.1505967	2.4020626	94	4	1994-2000	0.70	M-v	1	Williams	39521	1994 PG ₂₄
1994 PM ₂₅	15.5	0.15	20000226	111.23094	291.98025	137.48062	2.85631	0.1258982	2.3393936	34	4	1994-2000	0.79	M-v	1	Williams	34011	1994 PM ₂₅
1994 PW ₂₆	14.2	0.15	20000226	23.21675	261.66197	143.66614	9.22737	0.2603239	2.7739922	70	3	1994-2000	0.73	M-v	2	Williams	39522	1994 PW ₂₆
1994 PS ₂₇	15.7	0.15	20000226	102.50950	353.67323	67.25698	2.31071	0.1217172	2.3893436	25	3	1994-2000	0.59	M-v	4	Williams	39522	1994 PS ₂₇
1994 PZ ₂₇	13.7	0.15	20000226	238.22564	353.66216	126.71546	2.98944	0.1387679	3.0329139	36	4	1994-1999	0.72	M-v	1	Williams	35691	1994 PZ ₂₇
1994 PM ₂₈	15.7	0.15	20000226	297.68772	239.33605	20.76004	3.89687	0.0821337	2.2329029	23	3	1991-2000	0.53	M-v	5	Williams	33340	1994 PM ₂₈
1994 PH ₂₉	13.9	0.15	20000226	157.19709	160.28359	93.42652	3.22570	0.0420864	2.7220114	53	2	1994-1999	0.62	M-v	5	Williams	37265	1994 PH ₂₉
1994 PE ₃₃	13.7	0.15	20000226	14.88765	253.62923	293.42445	3.94814	0.0863633	2.2485345	56	4	1994-2000	0.78	M-v	1	Williams	39522	1994 PE ₃₃
1994 PE ₃₅	14.9	0.15	20000226	122.49119	234.85738	172.93665	3.12168	0.1598590	2.3714265	60	3	1994-2000	0.75	M-v	4	Williams	39522	1994 PE ₃₅
1994 PA ₃₆	14.8	0.15	20000226	104.84945	155.60194	166.06761	2.22420	0.0915621	2.6556678	64	2	1994-1999	0.66	M-v	4	Williams	38763	1994 PA ₃₆
1994 PF ₃₇	14.1	0.15	20000226	1.88238	332.61293	157.89322	5.85648	0.0903214	2.4460607	49	2	1994-2000	0.67	M-v	3	Williams	39522	1994 PF ₃₇
1994 PK ₃₇	14.5	0.15	20000226	307.53698	254.58044	296.69207	4.01342	0.1625147	2.3754792	65	2	1994-2000	0.64	M-v	4	Williams	39522	1994 PK ₃₇
1994 PN ₃₇	14.5	0.15	20000226	225.45627	126.36224	157.42855	6.09484	0.1843805	2.3432937	41	3	1994-2000	0.74	M-v	3	Williams	39522	1994 PN ₃₇
1994 PU ₃₇	14.8	0.15	20000226	81.07623	241.50078	158.06209	3.05294	0.1614624	2.5272960	79	3	1994-2000	0.71	M-v	3	Williams	39522	1994 PU ₃₇
1994 PQ ₃₉	14.0	0.15	20000226	109.36810	330.26536	321.86516	8.16797	0.1387594	2.7324559	50	2	1994-2000	0.67	M-v	4	Williams	37639	1994 PQ ₃₉
1994 QA	13.3	0.15	20000226	7.73588	121.65200	69.42520	25.12522	0.2245414	2.3313995	51	5	1950-2000	0.70	M-v	2	Williams	34291	1994 QA
1994 QC	18.5	0.15	20000226	281.65204	94.19791	162.58941	13.87148	0.1180938	1.3244523	313	3	1994-2000	0.60	M-v	2	Williams	39522	1994 QC
1994 QE	15.9	0.15	20000226	191.04077	349.33899	329.51117	4.00469	0.1330479	2.3768241	39	2	1994-2000	0.62	M-v	5	Williams	38448	1994 QE
1994 RA	14.8	0.15	20000226	21.84601	239.45965	176.39021	10.32382	0.1764020	2.8036773	56	2	1994-2000	0.61	M-v	3	Williams	37640	1994 RA
1994 RF	15.2	0.15	20000226	6.99790	221.64233	216.57905	4.35885	0.1832841	2.8012334	56	2	1994-1999	0.61	M-v	4	Williams	37640	1994 RF
1994 RD ₃	15.2	0.15	20000226	156.70953	27.36510	331.33481	6.26384	0.1265097	2.3886453	39	3	1994-2000	0.70	M-v	4	Williams	39162	1994 RD ₃
1994 RO ₆	16.1	0.15	20000226	295.22289	179.58863	304.56354	2.54815	0.0377039	2.8078322	25	2	1994-1999	0.43	M-v	5	Williams	38032	1994 RO ₆
1994 RN ₁₂	13.9	0.15	20000226	222.37447	166.67357	157.66402	4.96251	0.1713565	2.2756060	72	4	1991-2000	0.70	M-v	1	Williams	39522	1994 RN ₁₂
1994 SC ₆	16.2	0.15	20000226	88.63111	246.16868	168.37942	3.13432	0.2100610	2.5480380	37	3	1994-2000	0.63	M-v	4	Williams	39522	1994 SC ₆
1994 SL ₇	14.4	0.15	20000226	194.32998	312.31884	14.07849	6.85462	0.1544907	2.3995705	43	3	1994-2000	0.52	M-v	3	Williams	39162	1994 SL ₇
1994 TT	14.1	0.15	20000226	109.96885	33.07782	358.37243	5.94602	0.2334470	2.5455739	95	5	1990-2000	0.65	M-v	2	Williams	39522	1994 TT
1994 TW	14.3	0.15	20000226	124.12951	351.73284	20.62383	13.81413	0.1776416	2.5312622	63	3	1994-2000	0.67	M-v	3	Williams	39522	1994 TW
1994 TH ₁	13.0	0.15	20000226	38.31270	322.49311	42.26283	13.28767	0.1167989	2.9352205	71	3	1979-2000	0.51	M-v	3	Williams	38032	1994 TH ₁
1994 TJ ₂	14.6	0.15	20000226	199.51993	189.81060	160.28884	4.89303	0.1631223	2.3422799	54	3	1994-2000	0.71	M-v	3	Williams	39522	1994 TJ ₂
1994 TA ₃	14.3	0.15	20000226	211.17290	354.46813	9.24210	5.45704	0.2094921	2.2907243	36	5	1982-2000	0.80	M-v	2	Williams	34011	1994 TA ₃
1994 TB ₃	13.3	0.15	20000226	100.31390	12.39314	14.62442	14.60101	0.1501761	2.6003328	75	3	1994-2000	0.65	M-v	2	Williams	39522	1994 TB ₃
1994 TQ ₃	12.7	0.15	20000226	159.46346	322.63316	19.46524	12.91024	0.1207665	2.5323502	80	5	1970-2000	0.68	M-v	3	Williams	39522	1994 TQ ₃
1994 TT ₃	14.1	0.15	20000226	190.18605	127.42368	208.15949	22.73287	0.2683688	2.4404114	31	5	1986-2000	0.85	M-v	2	Williams	38763	1994 TT ₃
1994 TU ₃	13.5	0.15	20000226	196.47041	140.88434	211.77866	22.62358	0.2683924	2.3304550	35	5	1951-2000	0.72	M-v	2	Williams	33748	1994 TU ₃
1994 TH ₁₅	14.6	0.15	20000226	61.09226	183.01928	210.15333	10.35353	0.3603141	2.7355838	81	2	1994-2000	0.65	M-v	3	Williams	39522	1994 TH ₁₅
1994 TN ₁₅	15.7	0.15	20000226	128.21468	171.05907	191.97381	1.25226	0.1078665	2.5531943	27	4	1978-2000	0.71	M-v	3	Williams	38764	1994 TN ₁₅
1994 TQ ₁₆	14.9	0.15	20000226	215.38974	301.55777	33.27770	7.07425	0.1402375	2.3489524	40	4	1976-2000	0.65	M-v	2	Williams	39522	1994 TQ ₁₆
1994 TT ₁₆	16.3	0.15	20000226	195.52269	323.65706	33.14308	2.82426	0.2144860	2.3483070	38	4	1994-2000	0.39	M-v	1	Williams	36071	1994 TT ₁₆
1994 UL	13.8	0.15	20000226	59.86067	315.21992	60.77831	11.56832	0.1782992	2.8687606	55	2	1994-2000	0.48	M-v	3	Williams	37641	1994 UL
1994 UU ₁	14.4	0.15	20000226	255.07860	279.69615	37.29194	5.02540	0.2022594	2.2552060	44	3	1994-2000	0.59	M-v	4	Williams	39522	1994 UU ₁
1994 UZ ₁	12.7	0.15	20000226	353.33403	28.51165	51.32404	13.28474	0.0751066	2.9054361	101	3	1989-2000	0.66	M-v	4	Williams	38033	1994 UZ ₁
1994 UD ₂	14.7	0.15	20000226	197.67609	332.15239	37.58758	5.91087	0.2417124	2.3365870	37	3	1994-2000	0.71	M-v	3	Williams	34291	1994 UD ₂
1994 UH ₇	14.0	0.15	20000226	33.27832	194.76754	231.98773	8.22456	0.1222132	2.7512687	39	3	1994-2000	0.55	M-v	3	Williams	37641	1994 UH ₇
1994 UQ ₇	15.7	0.15	20000226	287.32798	213.85532	5.54811	5.77822	0.0396024	2.5375646	30	3	1994-2000	0.60	M-v	4	Williams	39522	1994 UQ ₇
1994 UC ₈	14.3	0.15	20000226	279.71875	263.17022	12.48131	6.21344	0.2299807	2.3104823	73	4	1994-2000	0.65	M-v	2	Williams	39162	1994 UC ₈
1994 UW ₉	16.3	0.15	20000226	131.75617	46.83999	318.54592	1.96223	0.2443069	2.5386135	28	3	1994-2000	0.53	M-v	3	Williams	33341	1994 UW ₉

1994 VB	14.3	0.15	20000226	158.97362	300.92761	36.42250	13.60411	0.1974123	2.5397341	69	4	1994-2000	0.65	M-v	1	Williams	38764	1994 VB
1994 VD	14.8	0.15	20000226	99.85603	149.94006	227.14152	11.30782	0.1949122	2.6532936	63	3	1994-2000	0.80	M-v	3	Williams	38764	1994 VD
1994 VF	14.7	0.15	20000226	147.22516	68.81575	292.70835	1.79153	0.1796680	2.5212192	65	4	1982-2000	0.65	M-v	3	Williams	39522	1994 VF
1994 VJ	15.0	0.15	20000226	158.34248	76.93785	302.19790	1.32068	0.1830655	2.4374538	47	3	1994-2000	0.75	M-v	4	Williams	39522	1994 VJ
1994 VL	15.1	0.15	20000226	92.10794	50.19145	23.16149	5.56842	0.2194928	2.5448299	96	4	1994-2000	0.58	M-v	2	Williams	35692	1994 VL
1994 VP	15.8	0.15	20000226	241.11295	304.08452	33.95126	7.01004	0.2349228	2.2725698	33	3	1987-2000	0.75	M-v	3	Williams	28617	1994 VP
1994 VU	14.4	0.15	20000226	123.32745	352.19570	56.98013	13.31031	0.1140699	2.5265691	56	3	1994-2000	0.62	M-v	3	Williams	39522	1994 VU
1994 VZ	14.5	0.15	20000226	232.29953	113.33534	222.03601	5.88361	0.1507669	2.3201919	35	6	1993-2000	0.61	M-v	1	Williams	33551	1994 VZ
1994 VE ₁	13.5	0.15	20000226	144.24450	192.07899	170.47193	2.44563	0.1612811	2.5518276	119	3	1994-2000	0.55	M-v	3	Williams	39522	1994 VE ₁
1994 VL ₁	13.8	0.15	20000226	122.24274	275.10456	65.56267	12.03701	0.2146608	2.6894300	40	4	1993-2000	0.66	M-v	1	Williams	38764	1994 VL ₁
1994 VX ₁	13.7	0.15	20000226	36.33607	274.10729	98.40786	3.52321	0.0763094	2.9922402	77	2	1994-1999	0.52	M-v	4	Williams	37266	1994 VX ₁
1994 VA ₂	13.4	0.15	20000226	120.07508	324.34180	71.38312	14.03078	0.1655117	2.5319375	64	4	1978-2000	0.60	M-v	3	Williams	39522	1994 VA ₂
1994 VH ₂	13.7	0.15	20000226	50.00234	62.59490	49.21124	15.90062	0.0582168	2.5902397	72	3	1994-2000	0.46	M-v	2	Williams	39522	1994 VH ₂
1994 VR ₂	13.1	0.15	20000226	353.78661	123.85798	42.44133	12.91440	0.0946695	2.5458994	80	3	1994-2000	0.76	M-v	3	Williams	39522	1994 VR ₂
1994 VU ₂	14.4	0.15	20000226	249.40774	313.31609	27.29918	6.77224	0.1937827	2.2631851	24	7	1977-2000	0.95	M-v	2	Williams	35692	1994 VU ₂
1994 VV ₂	13.1	0.15	20000226	90.80403	290.38435	73.51332	10.05526	0.1812291	2.7727499	69	3	1994-2000	0.52	M-v	2	Williams	38764	1994 VV ₂
1994 VB ₃	14.3	0.15	20000226	224.31902	161.08427	191.08689	3.98305	0.2274492	2.3103693	31	5	1980-2000	0.72	M-v	2	Williams	34011	1994 VB ₃
1994 VW ₆	13.6	0.15	20000226	274.72642	245.95689	68.69321	7.13236	0.1914675	2.2538581	38	5	1993-2000	0.72	M-v	2	Williams	35692	1994 VW ₆
1994 VD ₇	12.4	0.15	20000226	74.29369	73.07096	234.93973	20.78093	0.1069051	3.1697904	61	3	1994-2000	0.66	M-v	2	Williams	38033	1994 VD ₇
1994 VL ₇	14.2	0.15	20000226	198.73642	117.51970	229.32360	1.19518	0.2370023	2.3747899	60	3	1994-2000	0.66	M-v	3	Williams	39522	1994 VL ₇
1994 VP ₇	13.1	0.15	20000226	356.80182	7.93252	57.68640	13.48538	0.1833209	2.9948867	47	3	1989-2000	0.55	M-v	3	Williams	38033	1994 VP ₇
1994 WO	14.1	0.15	20000226	49.27416	312.88330	48.80869	7.27161	0.2591176	2.9750332	76	2	1994-1999	0.46	M-v	3	Williams	38033	1994 WO
1994 WT	14.4	0.15	20000226	156.14679	305.38338	57.32699	5.56713	0.2197662	2.5221624	36	4	1986-2000	0.82	M-v	4	Williams	39523	1994 WT
1994 WH ₁	13.0	0.15	20000226	333.56074	319.14717	253.06740	12.46719	0.1116988	2.5418871	57	3	1994-2000	0.53	M-v	3	Williams	38764	1994 WH ₁
1994 WJ ₁	14.8	0.15	20000226	77.25486	19.69314	65.22487	15.23592	0.2179906	2.6172839	33	3	1994-2000	0.77	M-v	2	Williams	33341	1994 WJ ₁
1994 WP ₁	14.7	0.15	20000226	70.23460	199.31059	277.44626	3.86074	0.1663528	2.5510173	48	4	1994-2000	0.63	M-v	1	Williams	33552	1994 WP ₁
1994 WS ₁	13.2	0.15	20000226	6.53979	154.87583	281.39808	8.88635	0.1611349	3.0137148	54	4	1989-2000	0.74	M-v	2	Williams	39523	1994 WS ₁
1994 WV ₁	13.5	0.15	20000226	344.46585	318.33690	116.16047	2.42047	0.1438059	3.0807998	85	3	1972-2000	0.59	M-v	3	Williams	37642	1994 WV ₁
1994 WC ₂	12.4	0.15	20000226	106.50945	248.02477	89.49155	10.28928	0.1711132	2.7763709	63	3	1994-2000	0.67	M-v	3	Williams	39523	1994 WC ₂
1994 WK ₂	13.0	0.15	20000226	3.82938	38.25759	104.68192	9.78466	0.2234238	2.7331097	95	3	1994-2000	0.53	M-v	2	Williams	39523	1994 WK ₂
1994 WJ ₃	13.6	0.15	20000226	62.26738	335.13961	82.98893	14.45966	0.2005450	2.7314883	43	2	1994-2000	0.52	M-v	4	Williams	39163	1994 WJ ₃
1994 WL ₃	14.6	0.15	20000226	102.44851	299.62405	139.53920	4.30265	0.1499551	2.5170958	35	5	1992-2000	0.60	M-v	3	Williams	35692	1994 WL ₃
1994 WN ₃	13.6	0.15	20000226	133.07490	258.82448	133.21241	6.79355	0.2314596	2.5254647	76	4	1986-2000	0.66	M-v	2	Williams	39523	1994 WN ₃
1994 WR ₃	12.4	0.15	20000226	107.05526	338.93595	78.69280	14.86150	0.1584532	2.5842419	89	4	1994-2000	0.68	M-v	2	Williams	39523	1994 WR ₃
1994 WA ₄	12.9	0.15	20000226	35.69361	252.34455	209.10291	11.71364	0.0833922	2.7032176	88	3	1994-2000	0.58	M-v	2	Williams	39523	1994 WA ₄
1994 WE ₄	12.8	0.15	20000226	93.28938	268.38882	66.00894	11.09063	0.1144558	3.0012337	90	4	1978-2000	0.64	M-v	1	Williams	39523	1994 WE ₄
1994 WP ₈	14.8	0.15	20000226	24.42505	180.52593	201.50753	10.63507	0.0639981	3.0906237	28	3	1985-1999	0.62	M-v	4	Williams	36793	1994 WP ₈
1994 WJ ₁₂	13.2	0.15	20000226	133.44619	121.63973	271.54901	9.03732	0.2275601	2.5362456	70	4	1983-2000	0.76	M-v	2	Williams	39523	1994 WJ ₁₂
1994 XM ₂	12.5	0.15	20000226	47.87766	261.72326	84.69240	8.47794	0.0376344	3.1478909	61	3	1994-1999	0.53	M-v	3	Williams	38033	1994 XM ₂
1994 XR ₄	13.1	0.15	20000226	157.09813	269.54099	97.98179	23.24418	0.1624134	2.5986554	36	3	1994-2000	0.52	M-v	3	Williams	39523	1994 XR ₄
1994 XV ₄	13.7	0.15	20000226	81.08882	160.52579	275.18564	11.98334	0.1360367	2.6844416	55	3	1994-2000	0.73	M-v	2	Williams	38449	1994 XV ₄
1994 XD ₅	14.4	0.15	20000226	144.95798	297.18829	97.67568	5.36532	0.1071603	2.5723802	35	3	1994-2000	0.71	M-v	4	Williams	33691	1994 XD ₅
1994 YC	14.9	0.15	20000226	44.14691	182.52191	315.51624	4.91792	0.1645149	2.6255942	31	5	1991-2000	0.61	M-v	1	Williams	33552	1994 YC
1994 YL	13.8	0.15	20000226	342.46616	34.02402	52.56672	12.52272	0.0723710	3.0422793	110	2	1994-2000	0.47	M-v	4	Williams	38764	1994 YL
1994 YN	14.3	0.15	20000226	144.94775	292.12667	101.30697	13.59490	0.2709229	2.5295323	62	4	1991-2000	0.64	M-v	3	Williams	33749	1994 YN
1994 YS	14.4	0.15	20000226	52.23951	27.22615	112.38495	5.55699	0.0992982	2.6055126	24	3	1994-2000	0.70	M-v	3	Williams	35692	1994 YS
1994 YX	14.0	0.15	20000226	118.38899	141.50466	288.27877	4.38291	0.1314005	2.5669467	40	5	1987-2000	0.73	M-v	1	Williams	33749	1994 YX
1994 YZ	13.4	0.15	20000226	182.82013	54.66311	289.80587	12.92949	0.1971982	2.6020895	41	4	1994-2000	0.52	M-v	1	Williams	33749	1994 YZ
1994 YC ₂	13.3	0.15	20000226	98.68943	119.37968	271.75416	11.23666	0.1825354	2.6571940	65	3	1994-2000	0.57	M-v	2	Williams	39523	1994 YC ₂
1995 AE ₄	14.3	0.15	20000226	138.35716	297.20780	92.81161	5.71957	0.2254271	2.5721073	46	4	1969-2000	0.66	M-v	2	Williams	39523	1995 AE ₄
1995 BF	14.2	0.15	20000226	24.09607	24.21427	139.90552	3.91506	0.1638986	2.6779303	27	3	1995-2000	0.79	M-v	3	Williams	33248	1995 BF
1995 BH	14.7	0.15	20000226	37.86711	189.24786	303.35930	1.91236	0.2776652	2.7505401	32	3	1995-2000	0.72	M-v	3	Williams	35692	1995 BH
1995 BP	13.7	0.15	20000226	321.25271	309.98953	315.88466	13.20641	0.2592269	2.6278647	33	5	1992-2000	0.66	M-v	1	Williams	36515	1995 BP

1995 BZ	13.3	0.15	20000226	338.48276	99.78179	115.41049	10.30236	0.1656965	2.7386097	78	3	1994-2000	0.55	M-v	2	Williams	39523	1995 BZ
1995 BM ₁	14.3	0.15	20000226	179.79865	253.03556	121.52931	5.09137	0.2378708	2.5553238	44	4	1995-2000	0.72	M-v	3	Williams	39523	1995 BM ₁
1995 BP ₁	13.8	0.15	20000226	153.69610	306.60209	89.47894	13.49992	0.2564194	2.6314713	50	4	1989-2000	0.64	M-v	2	Williams	34292	1995 BP ₁
1995 BQ ₂	13.1	0.15	20000226	339.66190	239.90667	226.64187	25.49312	0.1999755	3.1441730	100	2	1995-2000	0.52	M-v	2	Williams	38764	1995 BQ ₂
1995 BY ₂	12.6	0.15	20000226	115.33161	295.35926	115.38550	13.72222	0.1637028	2.6865799	58	3	1995-2000	0.64	M-v	3	Williams	39523	1995 BY ₂
1995 BG ₃	12.5	0.15	20000226	309.30023	279.35366	281.33308	11.77819	0.0832014	2.8593501	70	4	1995-2000	0.58	M-v	1	Williams	39163	1995 BG ₃
1995 BJ ₁₁	13.2	0.15	20000226	207.65714	156.55264	138.27749	4.22925	0.1388945	3.0238871	54	3	1995-2000	0.57	M-v	3	Williams	39523	1995 BJ ₁₁
1995 BW ₁₁	13.2	0.15	20000226	209.44224	189.26979	90.72442	1.87138	0.0454739	3.0765986	59	3	1995-2000	0.47	M-v	3	Williams	39523	1995 BW ₁₁
1995 CB	13.8	0.15	20000226	13.92892	296.69401	131.11094	10.28060	0.2189661	3.1110854	71	3	1995-2000	0.50	M-v	2	Williams	39523	1995 CB
1995 CC	13.2	0.15	20000226	34.05980	339.19304	89.56369	3.91163	0.0706364	3.1511684	50	3	1995-2000	0.65	M-v	2	Williams	38764	1995 CC
1995 CC ₂	14.7	0.15	20000226	270.05671	291.77872	292.26052	17.12134	0.0447343	1.9332416	64	2	1995-2000	0.50	M-v	3	Williams	39523	1995 CC ₂
1995 CP ₃	15.6	0.15	20000226	276.19775	124.49283	175.58900	2.86148	0.1742531	2.6026637	38	6	1993-2000	0.59	M-v	1	Williams	33749	1995 CP ₃
1995 CO ₆	14.9	0.15	20000226	34.43808	337.62420	162.92084	2.96117	0.0424512	2.7613596	40	2	1995-2000	0.50	M-v	5	Williams	39164	1995 CO ₆
1995 DG	12.2	0.15	20000226	24.03133	291.81298	148.96652	17.00519	0.2125531	3.1298833	94	3	1995-2000	0.59	M-v	2	Williams	39523	1995 DG
1995 DH	13.8	0.15	20000226	142.04707	250.63594	155.48164	28.16633	0.2439080	2.6692926	31	5	1993-2000	0.77	M-v	2	Williams	34583	1995 DH
1995 DU	13.2	0.15	20000226	57.32446	98.84487	352.29836	10.10401	0.0403864	2.9715910	67	3	1995-2000	0.62	M-v	3	Williams	39164	1995 DU
1995 DW	13.4	0.15	20000226	191.74079	243.34910	89.57408	3.00951	0.0446126	2.9217757	33	4	1991-2000	0.66	M-v	1	Williams	39523	1995 DW
1995 DG ₁	14.9	0.15	20000226	66.52278	272.72870	211.42835	4.30069	0.1123771	2.7590064	49	4	1995-2000	0.53	M-v	1	Williams	33749	1995 DG ₁
1995 DZ ₃	12.5	0.15	20000226	130.50276	13.87324	321.31830	16.92305	0.2679379	3.0995767	69	4	1992-2000	0.58	M-v	2	Williams	38765	1995 DZ ₃
1995 DM ₆	12.6	0.15	20000226	36.93781	94.57353	349.11848	21.39356	0.0444587	3.1585284	50	3	1995-2000	0.57	M-v	2	Williams	39164	1995 DM ₆
1995 DW ₈	13.6	0.15	20000226	62.96999	321.85387	140.78092	2.63270	0.0246121	2.9143846	46	2	1995-2000	0.44	M-v	5	Williams	39165	1995 DW ₈
1995 DR ₁₃	13.1	0.15	20000226	302.45744	63.43970	125.62432	1.76997	0.1448453	3.1145104	53	3	1995-2000	0.54	M-v	3	Williams	38765	1995 DR ₁₃
1995 EP ₁	12.7	0.15	20000226	348.00339	209.03001	350.07712	11.89392	0.1075243	2.8610700	71	4	1990-2000	0.55	M-v	2	Williams	39523	1995 EP ₁
1995 ES ₆	15.3	0.15	20000226	331.95939	156.85428	1.16591	0.96087	0.1239176	3.1127370	28	2	1995-2000	0.38	M-v	5	Williams	37643	1995 ES ₆
1995 EN ₈	13.0	0.15	20000226	359.68296	151.75724	357.07342	19.42304	0.1904422	2.9725713	40	2	1995-2000	0.46	M-v	3	Williams	39165	1995 EN ₈
1995 FY ₂	14.2	0.15	20000226	98.64175	75.50370	9.60611	9.04274	0.1289117	2.7622028	38	4	1993-2000	0.60	M-v	1	Williams	39523	1995 FY ₂
1995 FZ ₃	13.3	0.15	20000226	264.37355	152.48151	153.81100	6.03416	0.0782151	2.7311388	45	4	1986-2000	0.70	M-v	2	Williams	34012	1995 FZ ₃
1995 FK ₄	13.6	0.15	20000226	104.14494	267.34905	159.32508	9.53705	0.1972758	2.7846288	65	3	1995-2000	0.65	M-v	3	Williams	39523	1995 FK ₄
1995 FU ₄	14.1	0.15	20000226	33.36028	320.68246	160.22805	11.67708	0.0510447	2.9672460	48	2	1995-2000	0.53	M-v	4	Williams	39165	1995 FU ₄
1995 FM ₈	14.2	0.15	20000226	31.31682	39.28752	141.04902	6.04695	0.0330821	2.7582443	33	4	1995-2000	0.58	M-v	1	Williams	34293	1995 FM ₈
1995 FP ₁₄	14.1	0.15	20000226	182.63443	277.86926	84.09098	3.72620	0.0872130	2.9369532	36	4	1995-2000	0.60	M-v	2	Williams	34012	1995 FP ₁₄
1995 FH ₁₅	14.0	0.15	20000226	137.12434	299.53259	127.28258	4.61325	0.0815290	2.7930587	29	3	1995-2000	0.65	M-v	4	Williams	35693	1995 FH ₁₅
1995 GW ₂	14.9	0.15	20000226	339.92810	138.92309	29.19206	14.20143	0.2187757	3.0911754	34	3	1995-2000	0.52	M-v	3	Williams	39523	1995 GW ₂
1995 HR ₂	13.7	0.15	20000226	61.79764	61.57229	53.81776	11.45347	0.1286172	2.9945504	44	3	1995-2000	0.56	M-v	3	Williams	39523	1995 HR ₂
1995 KE ₂	13.6	0.15	20000226	164.55269	164.47065	80.12779	6.77250	0.0877364	2.1978934	69	3	1995-2000	0.58	M-v	2	Williams	37644	1995 KE ₂
1995 ME ₄	11.7	0.15	20000226	29.46693	177.60483	256.38205	9.28888	0.1214333	5.2839663	38	3	1995-2000	0.56	M-v	3	Williams	38765	1995 ME ₄
1995 OV ₃	16.2	0.15	20000226	30.63835	276.29415	151.49744	2.48659	0.1951497	2.3004471	36	2	1995-2000	0.37	M-v	3	Williams	38765	1995 OV ₃
1995 PA	15.7	0.15	20000226	57.00595	316.19585	59.91408	3.50837	0.2049227	2.3383483	107	2	1995-2000	0.57	M-v	3	Williams	38765	1995 PA
1995 QH	13.8	0.15	20000226	55.01705	137.52027	272.78945	4.35950	0.1574113	2.2828530	64	2	1995-2000	0.53	M-v	3	Williams	38765	1995 QH
1995 QB ₂	14.4	0.15	20000226	93.72284	77.48060	302.74284	3.55565	0.1839939	2.2375192	77	4	1995-2000	0.60	M-v	2	Williams	39523	1995 QB ₂
1995 QA ₃	13.7	0.15	20000226	131.25640	336.93797	340.17877	7.49330	0.1081137	2.3035271	53	2	1995-2000	0.61	M-v	3	Williams	38765	1995 QA ₃
1995 QP ₃	15.0	0.15	20000226	77.69964	333.10184	35.93131	5.35257	0.1930775	2.2973823	35	3	1995-2000	0.64	M-v	3	Williams	37645	1995 QP ₃
1995 QV ₃	14.0	0.15	20000226	47.81694	318.28274	61.94006	27.00062	0.2720317	2.3518055	81	3	1995-2000	0.42	M-v	2	Williams	39523	1995 QV ₃
1995 QF ₄	15.7	0.15	20000226	114.06514	59.41605	320.56107	3.30326	0.1353658	2.2128157	42	2	1995-2000	0.69	M-v	4	Williams	39166	1995 QF ₄
1995 SM	17.0	0.15	20000226	34.90626	64.98429	326.08430	1.19788	0.2216092	2.4591226	37	2	1995-1999	0.51	M-v	3	Williams	37645	1995 SM
1995 SE ₁	14.9	0.15	20000226	28.74583	188.70672	217.29922	4.06307	0.1267852	2.3563274	87	2	1995-2000	0.50	M-v	3	Williams	38765	1995 SE ₁
1995 SQ ₁	13.9	0.15	20000226	25.29558	121.88797	313.78510	23.71533	0.2222623	2.3673632	56	3	1991-2000	0.67	M-v	2	Williams	38765	1995 SQ ₁
1995 ST ₃	14.2	0.15	20000226	132.06884	59.39085	271.72914	2.94773	0.1893817	2.2541511	54	4	1995-2000	0.58	M-v	1	Williams	38450	1995 ST ₃
1995 SN ₄	14.5	0.15	20000226	115.69668	323.44619	30.89698	5.26121	0.1435171	2.2514417	47	2	1995-2000	0.58	M-v	4	Williams	38765	1995 SN ₄
1995 SX ₄	13.7	0.15	20000226	86.78112	79.57131	303.31175	6.25237	0.1663839	2.2567142	75	3	1975-2000	0.54	M-v	2	Williams	38765	1995 SX ₄
1995 SJ ₇	17.1	0.15	20000226	54.47369	149.40065	179.04495	4.01059	0.1609604	2.5298630	30	2	1995-1999	0.66	M-v	6	Williams	36794	1995 SJ ₇
1995 SO ₁₆	16.8	0.15	20000226	49.07847	73.80266	300.82636	0.27585	0.2051001	2.4286694	55	2	1995-1999	0.47	M-v	3	Williams	38034	1995 SO ₁₆
1995 SG ₂₁	15.1	0.15	20000226	51.57323	32.66083	355.22420	2.10426	0.1318790	2.3456973	49	2	1995-2000	0.51	M-v	4	Williams	37646	1995 SG ₂₁

1995 SL ₂₁	15.9	0.15	20000226	15.11450	79.44743	349.59690	7.41211	0.1492844	2.3538962	37	2	1995-1999	0.43	M-v	3	Williams	38450	1995 SL ₂₁
1995 SK ₂₉	15.0	0.15	20000226	133.70368	164.17607	183.69716	4.54692	0.1994282	2.2346348	31	3	1995-2000	0.70	M-v	3	Williams	39523	1995 SK ₂₉
1995 SZ ₂₉	15.5	0.15	20000226	32.84682	326.75780	31.07373	6.46084	0.3363913	2.5614900	41	2	1995-1999	0.60	M-v	2	Williams	38034	1995 SZ ₂₉
1995 SY ₃₀	15.4	0.15	20000226	332.66050	308.27232	160.06377	7.09300	0.0648441	2.3324030	56	3	1995-1999	0.63	M-v	4	Williams	38765	1995 SY ₃₀
1995 SE ₃₃	15.1	0.15	20000226	97.83754	9.81364	349.62799	6.91575	0.1385544	2.2714332	28	3	1995-2000	0.68	M-v	5	Williams	38450	1995 SE ₃₃
1995 SW ₃₄	16.1	0.15	20000226	27.88566	13.46958	6.62791	1.34550	0.1866911	2.5402815	42	2	1995-1999	0.59	M-v	4	Williams	38034	1995 SW ₃₄
1995 SD ₅₃	15.2	0.15	20000226	42.05531	206.39928	178.96764	5.41950	0.1505867	2.4185766	78	3	1995-2000	0.57	M-v	3	Williams	38765	1995 SD ₅₃
1995 SE ₅₃	15.1	0.15	20000226	35.84490	211.19553	183.31052	1.92142	0.2069397	2.4290464	70	3	1991-2000	0.54	M-v	3	Williams	38034	1995 SE ₅₃
1995 ST ₅₃	13.8	0.15	20000226	79.23834	261.71795	40.99164	13.61788	0.2945757	2.6202505	82	3	1995-2000	0.52	M-v	2	Williams	38034	1995 ST ₅₃
1995 TA ₁	15.1	0.15	20000226	262.12055	5.14587	177.38030	1.84731	0.0679702	2.4206405	65	3	1995-1999	0.53	M-v	3	Williams	38765	1995 TA ₁
1995 TS ₃	16.9	0.15	20000226	54.10870	75.89308	256.65803	0.64405	0.1910221	2.5761795	21	2	1995-1999	0.25	M-v	3	Williams	38765	1995 TS ₃
1995 TN ₇	16.2	0.15	20000226	28.59516	139.61499	280.44041	1.25109	0.1783815	2.4577647	43	2	1995-1999	0.32	M-v	3	Williams	38035	1995 TN ₇
1995 UK	16.1	0.15	20000226	30.45790	131.46571	238.92476	4.15157	0.3044186	2.5655374	77	2	1995-1999	0.56	M-v	3	Williams	37267	1995 UK
1995 UM	15.9	0.15	20000226	13.00763	192.34562	231.94610	5.40010	0.1170374	2.4631089	51	2	1995-1999	0.68	M-v	4	Williams	38035	1995 UM
1995 UQ	14.8	0.15	20000226	141.46373	294.22080	329.20263	8.29793	0.1821760	2.4488856	35	3	1995-1999	0.68	M-v	3	Williams	37647	1995 UQ
1995 UR	14.0	0.15	20000226	49.01538	155.15132	297.85805	25.31779	0.2059602	2.3011694	45	3	1995-2000	0.66	M-v	2	Williams	38765	1995 UR
1995 UH ₁	15.2	0.15	20000226	61.72006	26.61635	26.12484	7.07244	0.1209220	2.3089945	30	2	1995-2000	0.45	M-v	5	Williams	38451	1995 UH ₁
1995 UQ ₁	14.7	0.15	20000226	69.41928	182.49841	214.24326	4.57838	0.2316445	2.3608220	80	3	1995-2000	0.42	M-v	2	Williams	39524	1995 UQ ₁
1995 UA ₂	15.3	0.15	20000226	63.69106	303.04145	111.90696	10.15283	0.1241668	2.3082345	49	2	1995-2000	0.62	M-v	5	Williams	38766	1995 UA ₂
1995 UQ ₃	13.9	0.15	20000226	260.56124	12.00434	242.95134	2.14669	0.0729863	2.1822984	145	3	1995-2000	0.56	M-v	2	Williams	39524	1995 UQ ₃
1995 UE ₄	14.3	0.15	20000226	30.47340	211.83688	226.70982	6.44362	0.0731092	2.3782479	42	2	1995-2000	0.49	M-v	3	Williams	38766	1995 UE ₄
1995 UQ ₄	12.9	0.15	20000226	95.09212	318.24270	52.75103	13.73332	0.1948902	2.3596189	78	3	1955-2000	0.51	M-v	3	Williams	39524	1995 UQ ₄
1995 UW ₄	14.6	0.15	20000226	192.56734	279.49047	48.73019	8.11461	0.1353409	2.1888030	97	3	1995-2000	0.60	M-v	3	Williams	39524	1995 UW ₄
1995 UC ₅	14.8	0.15	20000226	36.34254	87.08589	281.24412	5.26296	0.0556838	2.6800606	43	2	1995-1999	0.57	M-v	5	Williams	38766	1995 UC ₅
1995 UM ₅	15.5	0.15	20000226	298.49709	265.59928	316.00776	4.12087	0.0436871	2.1706971	51	3	1995-2000	0.59	M-v	3	Williams	39524	1995 UM ₅
1995 UG ₇	14.5	0.15	20000226	116.84873	277.85310	34.72558	6.57598	0.1294276	2.4356508	54	3	1991-2000	0.59	M-v	3	Williams	38766	1995 UG ₇
1995 UB ₈	14.4	0.15	20000226	31.98320	27.40295	65.53972	4.14749	0.1225416	2.3332604	96	3	1995-2000	0.59	M-v	2	Williams	38766	1995 UB ₈
1995 UF ₈	13.5	0.15	20000226	238.69447	191.03117	39.57827	14.25737	0.0786457	2.3708527	36	2	1995-2000	0.51	M-v	4	Williams	39524	1995 UF ₈
1995 UL ₈	15.2	0.15	20000226	40.14889	44.02989	41.97805	2.82967	0.1718509	2.3570114	73	3	1995-2000	0.59	M-v	3	Williams	38766	1995 UL ₈
1995 UT ₈	14.7	0.15	20000226	98.49767	310.83567	99.85759	4.25048	0.1252261	2.2414543	65	3	1995-2000	0.66	M-v	2	Williams	39524	1995 UT ₈
1995 UV ₈	14.0	0.15	20000226	1.61820	7.10028	68.55301	3.09276	0.2540671	2.5588204	96	2	1995-2000	0.56	M-v	3	Williams	38766	1995 UV ₈
1995 UY ₈	14.8	0.15	20000226	14.54097	7.56788	64.75761	4.34476	0.1613735	2.4651351	107	2	1995-2000	0.50	M-v	3	Williams	38766	1995 UY ₈
1995 UQ ₁₁	14.0	0.15	20000226	117.30006	258.53698	10.23789	14.75122	0.0812889	2.5709443	65	3	1995-1999	0.44	M-v	2	Williams	37268	1995 UQ ₁₁
1995 UE ₁₂	16.7	0.15	20000226	334.45041	85.51350	4.15748	2.56454	0.1227670	2.5375337	16	2	1995-1999	0.59	M-v	6	Williams	36340	1995 UE ₁₂
1995 UQ ₁₂	14.8	0.15	20000226	60.22287	45.34845	11.35644	2.49485	0.1987572	2.3265674	68	3	1995-2000	0.51	M-v	4	Williams	39524	1995 UQ ₁₂
1995 UG ₁₃	16.3	0.15	20000226	17.12542	71.36373	356.95494	0.87783	0.1630111	2.4495795	35	2	1995-1999	0.58	M-v	4	Williams	38451	1995 UG ₁₃
1995 UC ₁₄	15.7	0.15	20000226	86.31637	145.98272	191.39999	0.46750	0.2069138	2.4278037	24	2	1995-1999	0.53	M-v	5	Williams	38451	1995 UC ₁₄
1995 UD ₁₅	15.6	0.15	20000226	133.70114	302.60957	348.82885	2.07325	0.1587206	2.4549561	22	2	1995-1999	0.60	M-v	4	Williams	39167	1995 UD ₁₅
1995 UC ₁₇	14.3	0.15	20000226	102.41692	305.06272	64.27733	7.59471	0.1330977	2.3413522	48	3	1995-2000	0.61	M-v	2	Williams	38766	1995 UC ₁₇
1995 UD ₃₄	14.9	0.15	20000226	341.18522	352.66668	82.71676	4.43416	0.1047256	2.5768661	15	3	1993-1999	0.61	M-v	4	Williams	38451	1995 UD ₃₄
1995 UO ₄₄	14.0	0.15	20000226	36.76251	347.46657	16.07420	15.82366	0.1345656	2.5899710	69	2	1995-2000	0.54	M-v	3	Williams	38035	1995 UO ₄₄
1995 UP ₄₄	14.0	0.15	20000226	147.55546	64.78432	239.09008	5.79967	0.1273567	2.3385303	58	3	1995-2000	0.62	M-v	3	Williams	38766	1995 UP ₄₄
1995 UE ₄₅	13.5	0.15	20000226	359.36075	14.09920	48.52586	16.26461	0.1670269	2.6055541	52	2	1995-2000	0.66	M-v	3	Williams	37649	1995 UE ₄₅
1995 UX ₄₈	14.3	0.15	20000226	73.49125	58.70868	6.73451	0.85625	0.1202253	2.2761905	81	3	1995-2000	0.64	M-v	2	Williams	39524	1995 UX ₄₈
1995 VA	14.7	0.15	20000226	16.36843	184.59153	226.49942	14.44137	0.0920401	2.5545728	76	2	1995-2000	0.54	M-v	3	Williams	38035	1995 VA
1995 VB	15.1	0.15	20000226	57.64331	192.33895	263.57383	4.74792	0.1334613	2.2918316	56	3	1995-2000	0.68	M-v	3	Williams	39524	1995 VB
1995 VC	14.7	0.15	20000226	28.26452	43.38046	38.25953	3.10252	0.1579712	2.4473019	48	2	1995-2000	0.60	M-v	4	Williams	38766	1995 VC
1995 VZ	14.7	0.15	20000226	74.32577	213.33539	184.85597	1.90545	0.2157438	2.3699580	77	4	1995-2000	0.66	M-v	2	Williams	39524	1995 VZ
1995 VE ₁	14.9	0.15	20000226	27.39125	270.26118	104.70739	3.01583	0.0999104	2.6784977	51	2	1995-1999	0.65	M-v	3	Williams	37268	1995 VE ₁
1995 VM ₁	13.5	0.15	20000226	123.57588	288.32123	77.33883	6.81081	0.1954647	2.2744401	57	2	1995-2000	0.55	M-v	3	Williams	39524	1995 VM ₁
1995 VN ₁	13.0	0.15	20000226	21.41200	328.83501	69.82507	14.80753	0.1701299	2.5958767	47	3	1980-2000	0.52	M-v	2	Williams	38766	1995 VN ₁
1995 VD ₁₉	14.7	0.15	20000226	347.87909	296.59789	272.28677	4.94713	0.1422085	2.2822395	40	4	1995-2000	0.67	M-v	1	Williams	38766	1995 VD ₁₉
1995 WM	14.3	0.15	20000226	41.50121	198.22709	229.45281	6.09428	0.0978670	2.4241202	64	3	1995-2000	0.64	M-v	3	Williams	38766	1995 WM

1995 WC ₁	14.8	0.15	20000226	86.46592	145.21311	235.49657	1.47462	0.2176448	2.3664508	43	2	1995-2000	0.63	M-v	4	Williams	38766	1995 WC ₁
1995 WJ ₁	15.0	0.15	20000226	48.29792	317.36678	34.57516	5.33547	0.2502052	2.5754449	105	3	1995-1999	0.57	M-v	2	Williams	38035	1995 WJ ₁
1995 WK ₁	14.0	0.15	20000226	338.37450	53.23368	43.39827	4.87905	0.1329829	2.6220880	87	2	1995-2000	0.47	M-v	4	Williams	38766	1995 WK ₁
1995 WP ₁	14.2	0.15	20000226	346.40777	166.48414	327.22356	5.00382	0.1838790	2.4628222	62	3	1995-2000	0.49	M-v	2	Williams	39524	1995 WP ₁
1995 WQ ₁	14.5	0.15	20000226	55.68223	132.11856	264.91598	3.77192	0.2328974	2.5383532	58	2	1995-2000	0.50	M-v	4	Williams	38766	1995 WQ ₁
1995 WT ₁	14.5	0.15	20000226	97.36322	142.85596	252.44427	5.04968	0.1649197	2.2992060	46	3	1995-2000	0.61	M-v	2	Williams	38766	1995 WT ₁
1995 WZ ₁	14.3	0.15	20000226	18.65454	153.31068	250.38870	8.54809	0.1285940	2.5690116	69	2	1995-2000	0.47	M-v	3	Williams	38035	1995 WZ ₁
1995 WA ₂	15.1	0.15	20000226	23.16958	255.34876	216.33055	3.12068	0.1921220	2.3514647	99	3	1995-2000	0.58	M-v	2	Williams	39524	1995 WA ₂
1995 WE ₃	14.4	0.15	20000226	250.79222	131.88544	65.68636	4.39376	0.0934368	2.5405211	66	3	1995-1999	0.51	M-v	3	Williams	38767	1995 WE ₃
1995 WP ₃	15.9	0.15	20000226	55.59861	138.33136	225.85264	1.63916	0.1699900	2.5668497	57	2	1995-1999	0.52	M-v	4	Williams	38036	1995 WP ₃
1995 WK ₄	15.1	0.15	20000226	64.50433	291.94335	106.88276	3.29454	0.1749794	2.4269774	73	2	1995-2000	0.51	M-v	4	Williams	39524	1995 WK ₄
1995 WM ₄	13.9	0.15	20000226	81.49341	236.08149	100.21620	4.26773	0.1585334	2.5889657	98	3	1995-2000	0.51	M-v	2	Williams	38036	1995 WM ₄
1995 WN ₄	15.2	0.15	20000226	25.30082	284.63891	114.50355	4.49691	0.1812301	2.5998573	69	2	1995-2000	0.62	M-v	3	Williams	38036	1995 WN ₄
1995 WY ₄	14.9	0.15	20000226	72.28693	305.06573	90.95373	3.27076	0.2180732	2.3774353	64	4	1994-2000	0.56	M-v	2	Williams	39524	1995 WY ₄
1995 WH ₅	15.2	0.15	20000226	95.39233	150.12471	258.28579	3.99149	0.1064956	2.3136756	62	3	1995-2000	0.64	M-v	2	Williams	39524	1995 WH ₅
1995 WK ₅	14.6	0.15	20000226	115.75687	341.50467	42.41863	3.45813	0.1237399	2.3112166	99	3	1995-2000	0.61	M-v	3	Williams	39524	1995 WK ₅
1995 WU ₅	15.2	0.15	20000226	238.65648	317.00276	320.97182	1.68128	0.0176849	2.2648135	70	3	1995-2000	0.51	M-v	3	Williams	39524	1995 WU ₅
1995 WV ₆	15.1	0.15	20000226	0.02629	98.04592	32.88732	3.01841	0.1448741	2.4012575	42	2	1995-2000	0.62	M-v	3	Williams	38767	1995 WV ₆
1995 WT ₇	13.1	0.15	20000226	270.91682	95.43471	75.22028	12.68805	0.1447495	2.6737337	73	3	1988-2000	0.62	M-v	2	Williams	38767	1995 WT ₇
1995 WU ₇	14.8	0.15	20000226	48.54200	48.83657	69.67756	3.89485	0.0628967	2.2677257	56	3	1995-2000	0.60	M-v	3	Williams	39524	1995 WU ₇
1995 WZ ₇	13.8	0.15	20000226	54.58323	93.63643	277.68560	10.71721	0.1777422	2.5828353	67	3	1992-2000	0.60	M-v	3	Williams	39524	1995 WZ ₇
1995 WB ₉	13.5	0.15	20000226	328.81643	244.17171	228.93155	26.32962	0.1347292	2.6279225	144	2	1995-2000	0.46	M-v	3	Williams	38767	1995 WB ₉
1995 WP ₁₀	16.1	0.15	20000226	210.32476	35.77434	241.66177	3.01422	0.1314308	2.2487318	26	4	1995-2000	0.72	M-v	2	Williams	38452	1995 WP ₁₀
1995 WN ₂₀	15.5	0.15	20000226	296.28533	94.48937	122.96684	3.06562	0.0816284	2.2487946	49	3	1995-2000	0.68	M-v	3	Williams	39524	1995 WN ₂₀
1995 WF ₂₂	13.9	0.15	20000226	204.61521	354.59898	229.44327	26.21206	0.1474364	2.6098240	46	2	1995-2000	0.55	M-v	3	Williams	39167	1995 WF ₂₂
1995 WP ₂₂	14.8	0.15	20000226	157.29529	13.07921	253.79937	1.66546	0.1959583	2.4165725	66	3	1995-1999	0.63	M-v	4	Williams	38036	1995 WP ₂₂
1995 WN ₃₃	14.1	0.15	20000226	303.39994	269.91818	208.00808	12.58564	0.1207657	2.6002380	83	4	1991-1999	0.53	M-v	2	Williams	37268	1995 WN ₃₃
1995 WZ ₄₁	13.6	0.15	20000226	92.44510	148.97029	237.10485	23.42362	0.2820181	2.3399536	44	3	1995-2000	0.87	M-v	2	Williams	38036	1995 WZ ₄₁
1995 XV	14.5	0.15	20000226	45.98429	297.80471	97.66606	3.73247	0.1975071	2.5380112	57	2	1995-2000	0.48	M-v	4	Williams	38767	1995 XV
1995 XP ₁	14.7	0.15	20000226	48.77989	350.84627	119.14015	2.82078	0.1623228	2.3536658	77	3	1995-2000	0.63	M-v	3	Williams	39524	1995 XP ₁
1995 XT ₁	15.2	0.15	20000226	15.89945	163.72578	277.70833	3.91837	0.2399275	2.5734863	78	2	1995-2000	0.52	M-v	2	Williams	38767	1995 XT ₁
1995 YJ	14.3	0.15	20000226	335.85657	233.77619	241.32811	3.86689	0.1752362	2.6219988	75	2	1995-2000	0.55	M-v	4	Williams	38767	1995 YJ
1995 YR	14.1	0.15	20000226	301.56756	138.04960	66.69962	9.45966	0.0771515	2.2967684	47	4	1995-2000	0.61	M-v	2	Williams	39524	1995 YR
1995 YV	14.8	0.15	20000226	90.96304	332.43384	102.35695	6.18998	0.1305161	2.2942923	45	4	1995-2000	0.58	M-v	1	Williams	39524	1995 YV
1995 YY	14.1	0.15	20000226	244.35635	171.91634	109.12053	5.70522	0.0661850	2.2707158	72	3	1995-2000	0.65	M-v	2	Williams	39524	1995 YY
1995 YK ₁	14.8	0.15	20000226	22.35307	328.55932	102.78980	6.01996	0.2423084	2.5800400	52	2	1995-2000	0.48	M-v	3	Williams	37652	1995 YK ₁
1995 YX ₁	14.2	0.15	20000226	47.64341	271.19866	218.54252	2.20675	0.1003713	2.3042910	112	3	1995-2000	0.57	M-v	2	Williams	39524	1995 YX ₁
1995 YT ₂	15.7	0.15	20000226	23.17529	342.20131	78.90909	5.27316	0.2804141	2.5831729	84	2	1995-2000	0.53	M-v	2	Williams	38767	1995 YT ₂
1995 YU ₂	14.4	0.15	20000226	352.35336	135.34528	283.72934	0.83475	0.1026332	2.8372087	70	2	1995-1999	0.69	M-v	4	Williams	37653	1995 YU ₂
1995 YG ₃	15.2	0.15	20000226	116.95529	67.17794	331.40282	3.08565	0.1288506	2.3239602	65	3	1995-2000	0.66	M-v	3	Williams	39524	1995 YG ₃
1995 YM ₃	14.3	0.15	20000226	257.12620	203.69328	114.48888	6.06805	0.0858320	2.1617838	54	4	1991-2000	0.75	M-v	2	Williams	33750	1995 YM ₃
1995 YX ₃	13.8	0.15	20000226	50.13027	253.79693	106.06479	13.48666	0.1482216	2.7861452	74	3	1995-2000	0.63	M-v	2	Williams	38767	1995 YX ₃
1995 YM ₄	14.4	0.15	20000226	19.76286	320.74450	102.35752	5.02438	0.2740329	2.5789620	63	2	1995-2000	0.50	M-v	3	Williams	38767	1995 YM ₄
1995 YO ₇	14.3	0.15	20000226	20.09386	174.78157	237.50666	12.52470	0.1585601	2.5718903	92	2	1995-2000	0.43	M-v	2	Williams	39525	1995 YO ₇
1995 YP ₈	13.9	0.15	20000226	89.61673	64.35979	241.74697	21.94634	0.0529067	2.7170223	44	3	1995-1999	0.53	M-v	2	Williams	38452	1995 YP ₈
1995 YM ₉	14.6	0.15	20000226	353.75586	203.15255	198.21609	1.50024	0.1134098	2.9874184	42	3	1995-1999	0.54	M-v	4	Williams	36887	1995 YM ₉
1995 YM ₁₀	13.8	0.15	20000226	146.15242	106.87193	163.06072	2.37431	0.0697169	2.9559903	41	3	1978-1999	0.54	M-v	3	Williams	38452	1995 YM ₁₀
1995 YH ₁₂	15.5	0.15	20000226	49.84692	342.91827	76.25385	3.11211	0.1689726	2.3870763	59	2	1995-2000	0.65	M-v	4	Williams	38767	1995 YH ₁₂
1995 YM ₂₃	14.5	0.15	20000226	328.91189	46.02322	68.26253	12.14114	0.2035605	2.6097139	51	3	1995-2000	0.75	M-v	2	Williams	39168	1995 YM ₂₃
1996 AK	13.1	0.15	20000226	88.07574	238.85718	60.71483	14.47820	0.1521443	3.0455622	57	3	1996-2000	0.53	M-v	2	Williams	37654	1996 AK
1996 AT	14.1	0.15	20000226	276.86177	156.17035	125.82506	3.57255	0.1057776	2.2409764	38	5	1976-2000	0.61	M-v	2	Williams	38768	1996 AT
1996 AV	13.1	0.15	20000226	238.82645	197.00924	307.08727	8.06579	0.0365782	3.1710285	22	3	1994-1999	0.65	M-v	4	Williams	36342	1996 AV
1996 AZ	13.8	0.15	20000226	359.18861	327.51851	99.75751	4.18618	0.0823291	2.8142252	61	2	1996-2000	0.62	M-v	4	Williams	38037	1996 AZ

1996 AN ₂	14.5	0.15	20000226	64.02914	0.36861	119.66535	6.09454	0.1299667	2.3190490	35	5	1988–2000	0.66	M-v	1	Williams	39168	1996 AN ₂
1996 AP ₂	13.8	0.15	20000226	38.21806	130.11177	310.13278	11.05276	0.1236086	2.5667332	106	3	1995–2000	0.59	M-v	2	Williams	39525	1996 AP ₂
1996 AR ₂	13.6	0.15	20000226	60.13944	67.12847	315.29945	12.00414	0.2058587	2.6908325	56	3	1994–2000	0.66	M-v	3	Williams	38768	1996 AR ₂
1996 AP ₃	13.3	0.15	20000226	168.01352	65.73821	273.59545	6.82815	0.1931895	2.2872631	102	4	1988–2000	0.63	M-v	2	Williams	38768	1996 AP ₃
1996 AU ₃	12.1	0.15	20000226	134.93102	195.65006	133.94080	15.11719	0.1808783	2.6402921	58	3	1996–2000	0.55	M-v	2	Williams	38768	1996 AU ₃
1996 AX ₃	13.4	0.15	20000226	241.35198	265.45393	332.20362	5.33544	0.0757938	2.6550668	82	3	1995–2000	0.62	M-v	2	Williams	38768	1996 AX ₃
1996 AB ₄	14.6	0.15	20000226	78.60485	250.16896	218.71633	4.24590	0.1039304	2.2982940	66	5	1987–2000	0.61	M-v	1	Williams	35694	1996 AB ₄
1996 AC ₄	12.9	0.15	20000226	254.27692	95.48176	153.54755	13.52024	0.1292173	2.5553289	56	4	1988–2000	0.71	M-v	2	Williams	39168	1996 AC ₄
1996 AQ ₇	15.8	0.15	20000226	29.68587	120.11177	12.54947	2.22985	0.1427147	2.3985536	56	2	1996–2000	0.70	M-v	5	Williams	39168	1996 AQ ₇
1996 AZ ₁₀	16.1	0.15	20000226	299.80776	87.79725	151.22955	4.45177	0.1111366	2.3761684	32	2	1996–2000	0.51	M-v	5	Williams	39169	1996 AZ ₁₀
1996 AA ₁₄	15.6	0.15	20000226	152.29970	8.46639	5.62314	6.53727	0.1555966	2.3845040	33	3	1996–2000	0.53	M-v	4	Williams	35694	1996 AA ₁₄
1996 AL ₁₉	15.2	0.15	20000226	62.67011	259.18162	199.04574	5.89003	0.0782975	2.4106321	45	3	1996–2000	0.68	M-v	2	Williams	38768	1996 AL ₁₉
1996 BA	14.4	0.15	20000226	226.45541	17.01499	317.04630	6.07239	0.2088522	2.2775690	74	4	1987–2000	0.58	M-v	1	Williams	33750	1996 BA
1996 BU	14.4	0.15	20000226	109.42652	116.39512	277.13831	7.02556	0.1175225	2.4006292	47	3	1995–2000	0.63	M-v	3	Williams	39525	1996 BU
1996 BZ	14.7	0.15	20000226	2.94784	26.93676	120.95317	6.42767	0.1379061	2.4440772	98	3	1996–2000	0.57	M-v	2	Williams	39525	1996 BZ
1996 BC ₁	14.5	0.15	20000226	178.55727	37.27139	317.48571	3.13607	0.1715061	2.2913117	66	3	1996–2000	0.67	M-v	4	Williams	39525	1996 BC ₁
1996 BF ₁	14.4	0.15	20000226	97.01376	14.14688	305.19396	3.77177	0.1177031	2.7456288	52	3	1996–1999	0.59	M-v	3	Williams	38768	1996 BF ₁
1996 BO ₁	13.0	0.15	20000226	77.59152	9.32950	310.14792	8.50502	0.0781720	3.0755670	66	3	1996–1999	0.49	M-v	2	Williams	37269	1996 BO ₁
1996 BP ₁	15.3	0.15	20000226	46.86839	61.71930	40.87056	4.06061	0.1693559	2.4439094	57	2	1995–2000	0.55	M-v	3	Williams	39169	1996 BP ₁
1996 BQ ₁	15.7	0.15	20000226	86.48551	19.35940	53.97098	4.19703	0.2030038	2.3635079	35	3	1996–2000	0.72	M-v	3	Williams	39525	1996 BQ ₁
1996 BA ₂	14.3	0.15	20000226	289.69523	176.67314	103.88767	7.09868	0.1104580	2.3012827	37	4	1979–2000	0.74	M-v	2	Williams	34013	1996 BA ₂
1996 BE ₂	13.7	0.15	20000226	30.12768	86.94320	84.93069	6.37683	0.0985450	2.2584908	61	5	1986–2000	0.74	M-v	2	Williams	34013	1996 BE ₂
1996 BH ₂	13.1	0.15	20000226	61.67050	105.96575	320.84055	8.36204	0.0368953	2.5971671	126	3	1996–2000	0.56	M-v	1	Williams	39525	1996 BH ₂
1996 BS ₂	13.7	0.15	20000226	229.18483	217.75542	125.99642	7.47987	0.2012313	2.2415079	46	4	1984–2000	0.59	M-v	1	Williams	39525	1996 BS ₂
1996 BV ₂	12.8	0.15	20000226	30.65380	333.40744	116.79914	16.09748	0.1125657	2.5757021	76	3	1996–2000	0.50	M-v	2	Williams	39525	1996 BV ₂
1996 BY ₂	13.7	0.15	20000226	47.44219	287.51113	158.19611	4.10001	0.1914750	2.4796418	126	3	1996–2000	0.68	M-v	2	Williams	39525	1996 BY ₂
1996 BA ₃	14.3	0.15	20000226	4.77695	311.15790	113.96836	10.23287	0.1658702	2.7519879	48	2	1996–2000	0.71	M-v	4	Williams	37655	1996 BA ₃
1996 BL ₃	14.7	0.15	20000226	349.23814	25.46860	155.51170	4.87068	0.1320356	2.4257751	69	3	1995–2000	0.55	M-v	3	Williams	39169	1996 BL ₃
1996 BO ₃	13.9	0.15	20000226	342.56830	334.86969	136.52140	12.98885	0.0962658	2.7499788	60	3	1996–2000	0.52	M-v	3	Williams	39525	1996 BO ₃
1996 BX ₄	14.7	0.15	20000226	163.60307	286.62034	88.22126	4.61582	0.0972358	2.3569112	40	3	1996–2000	0.69	M-v	4	Williams	39169	1996 BX ₄
1996 BW ₆	15.0	0.15	20000226	316.57094	55.98852	75.29337	3.01307	0.0168008	2.7450574	28	2	1996–1999	0.55	M-v	5	Williams	38453	1996 BW ₆
1996 BM ₁₇	14.5	0.15	20000226	34.57035	50.11579	43.76707	4.92832	0.1307047	2.5206068	84	3	1996–2000	0.66	M-v	2	Williams	39525	1996 BM ₁₇
1996 CQ	13.7	0.15	20000226	292.02041	223.14549	33.85979	5.98917	0.1271396	2.4468380	93	6	1986–2000	0.51	M-v	1	Williams	39525	1996 CQ
1996 CY	15.3	0.15	20000226	60.86766	6.91007	125.33867	6.23804	0.0917520	2.2880393	47	3	1996–2000	0.69	M-v	2	Williams	39525	1996 CY
1996 CK ₁	14.0	0.15	20000226	7.50829	67.68208	25.60154	5.11087	0.1709499	2.7151737	55	3	1992–2000	0.69	M-v	3	Williams	38768	1996 CK ₁
1996 CL ₁	14.5	0.15	20000226	341.56660	68.42027	135.08505	13.60123	0.1852824	2.4522616	42	2	1996–2000	0.53	M-v	3	Williams	39525	1996 CL ₁
1996 CP ₁	14.5	0.15	20000226	25.88271	6.18950	96.01651	6.57911	0.1156825	2.5525484	53	2	1996–2000	0.51	M-v	3	Williams	38453	1996 CP ₁
1996 CD ₂	13.1	0.15	20000226	217.65190	323.60628	304.60310	12.31510	0.1358258	2.6893245	58	3	1996–2000	0.70	M-v	2	Williams	38768	1996 CD ₂
1996 CO ₂	12.7	0.15	20000226	136.14438	164.25417	128.04647	10.84923	0.0670294	2.9949150	86	3	1996–2000	0.65	M-v	3	Williams	39525	1996 CO ₂
1996 CB ₃	15.1	0.15	20000226	40.75404	272.72031	239.40771	5.72448	0.1347700	2.3101857	30	4	1989–2000	0.70	M-v	1	Williams	35695	1996 CB ₃
1996 CE ₃	13.0	0.15	20000226	53.59244	79.91689	358.36099	21.91870	0.0536729	2.6685832	121	3	1996–2000	0.57	M-v	1	Williams	39525	1996 CE ₃
1996 CW ₃	13.8	0.15	20000226	49.68707	110.35515	317.12160	11.18871	0.0163369	2.6457932	85	3	1996–2000	0.58	M-v	2	Williams	38768	1996 CW ₃
1996 CP ₇	15.0	0.15	20000226	347.79061	106.01851	127.08010	4.39901	0.0924021	2.2831874	23	5	1991–2000	0.75	M-v	2	Williams	36074	1996 CP ₇
1996 CX ₈	14.2	0.15	20000226	111.80498	11.51896	10.33262	6.88917	0.0449718	2.5952045	91	4	1976–2000	0.72	M-v	3	Williams	39525	1996 CX ₈
1996 CM ₉	12.1	0.15	20000226	141.62881	275.29730	328.22070	14.25499	0.0627756	3.4048867	50	3	1996–1999	0.64	M-v	3	Williams	36888	1996 CM ₉
1996 DH	16.5	0.15	20000226	225.14255	351.32382	309.39169	17.22960	0.2767070	1.5869951	136	3	1996–2000	0.52	M-v	3	Williams	39525	1996 DH
1996 DL	15.1	0.15	20000226	63.14653	329.37957	151.59392	4.62539	0.1060394	2.3625527	45	4	1980–2000	0.62	M-v	1	Williams	33343	1996 DL
1996 DO	14.3	0.15	20000226	357.67894	146.40603	350.30834	3.47234	0.1162919	2.6288825	80	3	1996–2000	0.54	M-v	3	Williams	39525	1996 DO
1996 DU	13.6	0.15	20000226	330.41846	35.99262	154.44130	13.18921	0.2189563	2.5754494	79	3	1971–2000	0.46	M-v	3	Williams	39525	1996 DU
1996 DX	14.3	0.15	20000226	67.61573	8.52106	101.38772	3.06397	0.1677320	2.3814020	55	4	1996–2000	0.66	M-v	1	Williams	35695	1996 DX
1996 DE ₁	14.5	0.15	20000226	21.48380	281.52019	161.50563	3.03495	0.1420854	2.6780981	39	3	1996–2000	0.63	M-v	3	Williams	38037	1996 DE ₁
1996 DL ₁	15.2	0.15	20000226	12.74403	168.31520	317.36963	4.63044	0.1548051	2.5316997	132	4	1994–2000	0.60	M-v	2	Williams	39525	1996 DL ₁
1996 DK ₂	14.5	0.15	20000226	300.50246	103.49168	131.69782	5.27858	0.1971417	2.5647782	78	4	1992–2000	0.54	M-v	2	Williams	39525	1996 DK ₂

1996 DM ₂	13.5	0.15	20000226	264.79433	117.48429	106.41022	5.81579	0.0526465	2.7370843	94	3	1996–2000	0.56	M-v	3	Williams	38768	1996 DM ₂
1996 DQ ₂	13.7	0.15	20000226	288.11356	144.91517	97.81888	5.14115	0.0509305	2.5251101	103	5	1980–2000	0.50	M-v	2	Williams	39525	1996 DQ ₂
1996 EB	13.8	0.15	20000226	53.79926	345.91457	73.47592	14.73442	0.1461455	2.6021822	68	4	1996–2000	0.72	M-v	2	Williams	38768	1996 EB
1996 EV	14.3	0.15	20000226	117.19795	264.97926	162.61999	12.24253	0.1321223	2.3388087	39	3	1994–2000	0.45	M-v	3	Williams	28890	1996 EV
1996 EW	14.4	0.15	20000226	345.62945	2.66218	163.59731	13.69379	0.1182799	2.5509051	62	4	1988–2000	0.64	M-v	3	Williams	39525	1996 EW
1996 EC ₁	14.3	0.15	20000226	297.17181	228.88921	13.01907	1.94059	0.0637633	2.5207164	70	2	1996–2000	0.57	M-v	4	Williams	39170	1996 EC ₁
1996 EJ ₁	14.4	0.15	20000226	50.56964	105.54432	30.55909	2.48138	0.1284326	2.4005147	72	3	1996–2000	0.61	M-v	2	Williams	34013	1996 EJ ₁
1996 EL ₁	13.3	0.15	20000226	40.64090	120.01559	340.90210	13.23104	0.1494324	2.5826094	129	3	1996–2000	0.62	M-v	2	Williams	39525	1996 EL ₁
1996 EM ₁	14.2	0.15	20000226	321.38369	229.07475	335.82134	10.91050	0.2018129	2.5887913	91	2	1996–2000	0.46	M-v	3	Williams	39525	1996 EM ₁
1996 EP ₁	13.4	0.15	20000226	149.58576	184.69992	184.03692	4.99870	0.2242132	2.5591802	87	4	1973–2000	0.66	M-v	3	Williams	39525	1996 EP ₁
1996 ET ₁	13.7	0.15	20000226	270.15759	267.64532	358.82823	12.23104	0.1615724	2.5905332	65	5	1993–2000	0.67	M-v	1	Williams	39170	1996 ET ₁
1996 EC ₆	15.5	0.15	20000226	39.32719	286.65934	174.21009	6.64041	0.2018957	2.5458374	42	2	1996–2000	0.54	M-v	4	Williams	39170	1996 EC ₆
1996 EY ₇	14.3	0.15	20000226	173.68531	167.97926	163.56543	4.42775	0.1076796	2.6617312	54	3	1996–2000	0.56	M-v	4	Williams	39525	1996 EY ₇
1996 EK ₉	13.8	0.15	20000226	161.02960	193.00723	65.34486	1.16854	0.0430206	3.1546263	71	2	1996–1999	0.59	M-v	4	Williams	38038	1996 EK ₉
1996 FY	14.9	0.15	19960318	10.05028	176.22370	351.00037	3.47421	0.1536093	2.7245769	12	1	8 days	0.23			Williams		1996 FY
1996 FM ₂	14.8	0.15	20000226	8.73379	354.13357	165.39645	3.42518	0.1354941	2.4826434	79	2	1996–2000	0.58	M-v	4	Williams	39170	1996 FM ₂
1996 FJ ₅	12.3	0.15	20000226	133.84115	16.00268	12.90572	15.51296	0.1239777	2.5744269	107	5	1977–2000	0.57	M-v	2	Williams	39525	1996 FJ ₅
1996 GA	13.9	0.15	20000226	340.99340	207.58405	26.48989	13.78332	0.1372477	2.3763065	27	3	1996–2000	0.93	M-v	4	Williams	33751	1996 GA
1996 GK	15.6	0.15	20000226	40.31993	304.34914	191.12793	1.71914	0.0703894	2.5113196	43	2	1996–2000	0.63	M-v	4	Williams	39171	1996 GK
1996 GP ₁	13.5	0.15	20000226	47.98261	73.87171	3.19755	22.14175	0.0431314	2.6545679	81	3	1996–2000	0.56	M-v	2	Williams	38769	1996 GP ₁
1996 GN ₂	14.1	0.15	20000226	91.34757	219.39085	191.75490	9.08745	0.1279259	2.7286921	68	3	1996–2000	0.62	M-v	3	Williams	39525	1996 GN ₂
1996 GT ₂	12.6	0.15	20000226	261.57877	57.93308	129.52627	17.66910	0.1626734	3.1226242	56	3	1996–2000	0.53	M-v	3	Williams	39525	1996 GT ₂
1996 GV ₂	13.1	0.15	20000226	231.62988	211.58537	93.86076	14.26861	0.1574301	2.6909458	60	3	1996–2000	0.60	M-v	3	Williams	39526	1996 GV ₂
1996 GL ₃	14.4	0.15	20000226	49.81246	356.85166	92.33690	3.84078	0.0346991	2.7384140	76	3	1996–2000	0.67	M-v	2	Williams	39526	1996 GL ₃
1996 GG ₅	14.6	0.15	20000226	195.22158	305.71773	67.00967	4.48197	0.2227972	2.4254291	26	4	1995–2000	0.61	M-v	2	Williams	34013	1996 GG ₅
1996 GE ₆	13.6	0.15	20000226	6.15884	13.83900	62.53300	6.70470	0.1448665	3.0646287	71	3	1979–2000	0.53	M-v	2	Williams	39526	1996 GE ₆
1996 GP ₆	14.5	0.15	20000226	281.54998	135.78684	94.85012	3.05829	0.0207965	2.6972275	36	4	1993–2000	0.57	M-v	4	Williams	39171	1996 GP ₆
1996 GN ₇	13.9	0.15	20000226	36.74450	253.08438	150.82041	2.06340	0.1673482	3.1980975	52	3	1996–2000	0.44	M-v	3	Williams	38769	1996 GN ₇
1996 GP ₉	15.0	0.15	20000226	241.88586	113.91868	183.12002	3.07346	0.0887901	2.6430635	44	3	1996–2000	0.53	M-v	3	Williams	39526	1996 GP ₉
1996 GS ₉	14.5	0.15	20000226	152.28455	178.47304	182.62804	3.08392	0.0950795	2.7597586	33	3	1996–2000	0.47	M-v	4	Williams	39526	1996 GS ₉
1996 GO ₁₃	15.4	0.15	20000226	50.19928	294.61588	146.80330	4.76814	0.2754832	2.6377328	38	3	1990–2000	0.67	M-v	3	Williams	39526	1996 GO ₁₃
1996 GG ₁₈	13.8	0.15	20000226	353.72150	306.96766	213.77040	4.59978	0.0126768	2.7610409	65	3	1996–2000	0.61	M-v	4	Williams	39526	1996 GG ₁₈
1996 GE ₂₀	13.4	0.15	20000226	204.91804	259.43997	67.94847	4.61774	0.0567365	2.7046862	84	4	1993–2000	0.68	M-v	2	Williams	39526	1996 GE ₂₀
1996 HP	13.7	0.15	20000226	20.71856	112.58608	52.47910	14.45963	0.0920896	2.5825048	86	3	1996–2000	0.57	M-v	2	Williams	39526	1996 HP
1996 HY	13.8	0.15	20000226	354.10717	122.74166	63.03453	12.45045	0.1298329	2.6406069	87	3	1996–2000	0.63	M-v	3	Williams	39526	1996 HY
1996 HY ₁	13.8	0.15	20000226	197.24311	356.25429	1.00359	12.18621	0.1743120	2.6123938	58	3	1996–2000	0.78	M-v	3	Williams	39526	1996 HY ₁
1996 HM ₂	13.8	0.15	20000226	359.23277	100.00885	48.91876	2.68368	0.1416473	2.6791871	86	3	1996–2000	0.56	M-v	3	Williams	39526	1996 HM ₂
1996 HT ₂	14.0	0.15	20000226	306.20251	84.72478	199.08411	13.12497	0.0950685	2.4274819	32	4	1996–2000	0.63	M-v	1	Williams	34014	1996 HT ₂
1996 HB ₁₂	12.1	0.15	20000226	211.74032	248.07362	41.31373	13.64272	0.1405309	2.9866443	66	3	1996–2000	0.69	M-v	2	Williams	39526	1996 HB ₁₂
1996 HO ₁₄	14.6	0.15	20000226	282.86734	224.87701	47.16662	3.54943	0.1084328	2.6202763	32	2	1996–2000	0.62	M-v	5	Williams	39171	1996 HO ₁₄
1996 HJ ₁₅	14.3	0.15	20000226	340.49956	85.72601	139.28794	1.11408	0.0383697	2.5205611	37	4	1993–2000	0.80	M-v	4	Williams	39526	1996 HJ ₁₅
1996 HT ₁₅	13.5	0.15	20000226	74.74682	255.28485	161.53367	2.21258	0.0782712	2.9409554	92	3	1996–2000	0.65	M-v	3	Williams	39526	1996 HT ₁₅
1996 HT ₁₆	13.9	0.15	20000226	104.24988	211.96604	181.79022	1.71956	0.0544324	2.9267318	51	3	1996–2000	0.60	M-v	4	Williams	39526	1996 HT ₁₆
1996 HL ₂₀	13.4	0.15	20000226	287.04504	90.52408	70.37036	2.46715	0.1156072	3.2267645	71	3	1996–2000	0.53	M-v	3	Williams	39526	1996 HL ₂₀
1996 HH ₂₁	14.1	0.15	20000226	190.75282	192.61730	105.03653	2.35780	0.1967122	3.1748407	37	3	1991–2000	0.65	M-v	4	Williams	38454	1996 HH ₂₁
1996 HN ₂₁	14.0	0.15	20000226	119.06388	355.80469	50.23966	12.77384	0.1455720	2.7545877	32	3	1996–2000	0.77	M-v	3	Williams	39526	1996 HN ₂₁
1996 HZ ₂₁	14.2	0.15	20000226	336.17615	142.86950	37.82927	14.98668	0.0877696	2.6244166	47	3	1996–2000	0.58	M-v	3	Williams	39526	1996 HZ ₂₁
1996 HD ₂₂	13.9	0.15	20000226	3.22872	107.66830	40.96598	13.43105	0.1097143	2.6184471	66	4	1992–2000	0.71	M-v	3	Williams	39526	1996 HD ₂₂
1996 HQ ₂₂	14.3	0.15	20000226	206.96297	140.57969	215.43365	4.59705	0.2088749	2.6598777	52	4	1996–2000	0.68	M-v	2	Williams	34014	1996 HQ ₂₂
1996 HE ₂₅	14.3	0.15	20000226	297.80144	70.33440	184.89797	3.56247	0.1601383	2.6518785	63	2	1996–2000	0.66	M-v	4	Williams	39171	1996 HE ₂₅
1996 HU ₂₅	13.9	0.15	20000226	195.42558	228.73771	127.86503	2.87990	0.1019267	2.6726554	36	3	1996–2000	0.66	M-v	4	Williams	33495	1996 HU ₂₅
1996 JC	13.9	0.15	20000226	268.20936	137.28176	35.64066	0.90009	0.1374291	3.0924135	43	2	1996–1999	0.44	M-v	4	Williams	38769	1996 JC
1996 JE	14.2	0.15	20000226	337.82428	125.03194	61.53036	15.63183	0.0634498	2.6738153	54	3	1996–2000	0.68	M-v	3	Williams	39526	1996 JE

1996 JF ₁	14.4	0.15	20000226	31.97472	297.10106	212.95109	3.55252	0.1502323	2.5390628	70	3	1996–2000	0.70	M-v	2	Williams	35696	1996 JF ₁
1996 JK ₁	13.7	0.15	20000226	285.86396	54.64397	225.21945	12.60222	0.0310548	2.5647199	49	5	1989–2000	0.56	M-v	1	Williams	33555	1996 JK ₁
1996 JX ₇	14.4	0.15	20000226	300.66478	51.93537	105.22346	2.77981	0.2092883	3.0709704	37	3	1990–1999	0.77	M-v	3	Williams	38769	1996 JX ₇
1996 JO ₉	14.2	0.15	20000226	44.56068	6.15348	85.92588	3.29215	0.0559507	2.9297311	56	5	1977–2000	0.76	M-v	1	Williams	39172	1996 JO ₉
1996 KB	13.6	0.15	20000226	329.89837	7.02222	230.41390	2.75365	0.0900270	2.5329078	44	4	1993–2000	0.59	M-v	2	Williams	34014	1996 KB
1996 KC ₁	14.7	0.15	20000226	323.12684	79.22705	146.68271	13.40492	0.1035454	2.6918611	40	2	1996–2000	0.53	M-v	4	Williams	39172	1996 KC ₁
1996 KX ₂	13.4	0.15	20000226	228.26057	178.20100	171.80952	12.00715	0.1303028	2.6514834	61	4	1988–2000	0.62	M-v	2	Williams	39526	1996 KX ₂
1996 LS ₂	12.6	0.15	20000226	199.94653	203.49035	103.99434	9.85179	0.1951116	3.0763817	40	3	1996–2000	0.50	M-v	3	Williams	39526	1996 LS ₂
1996 NG	13.4	0.15	20000226	194.64370	242.80767	108.27624	6.28842	0.1614343	3.1360684	44	4	1991–2000	0.55	M-v	1	Williams	39526	1996 NG
1996 NK ₅	13.0	0.15	20000226	313.29411	50.17845	177.32094	0.76626	0.1301707	3.1494426	87	3	1996–2000	0.56	M-v	3	Williams	39172	1996 NK ₅
1996 PT ₁	14.3	0.15	20000226	248.68723	172.32707	125.00801	5.92839	0.1522037	3.1660697	32	3	1996–2000	0.57	M-v	4	Williams	39526	1996 PT ₁
1996 PY ₈	13.1	0.15	20000226	280.72344	296.48869	333.81681	5.61709	0.0710006	3.0953100	36	2	1996–2000	0.70	M-v	4	Williams	39172	1996 PY ₈
1996 PO ₉	13.3	0.15	20000226	319.12466	141.36497	135.84732	13.68505	0.1648735	2.6887849	37	3	1996–2000	0.58	M-v	4	Williams	34295	1996 PO ₉
1996 QT ₁	12.9	0.15	20000226	256.02791	132.81556	162.13243	8.81072	0.1347780	3.1677067	74	3	1996–2000	0.65	M-v	3	Williams	39526	1996 QT ₁
1996 RQ	14.6	0.15	20000226	133.79558	41.98011	273.06050	18.23973	0.0721083	1.9241871	71	3	1988–2000	0.58	M-v	3	Williams	39526	1996 RQ
1996 RM ₅	14.3	0.15	20000226	295.38097	132.30561	166.16470	14.12634	0.1595486	2.7881541	29	3	1996–2000	0.44	M-v	3	Williams	33948	1996 RM ₅
1996 RC ₂₄	12.4	0.15	20000226	338.30503	65.99853	164.68093	7.57661	0.1097605	3.1367279	59	3	1996–2000	0.71	M-v	3	Williams	39526	1996 RC ₂₄
1996 RU ₂₅	13.6	0.15	20000226	273.20603	97.50105	180.23745	0.58479	0.2093355	3.1829122	50	4	1991–2000	0.50	M-v	2	Williams	39526	1996 RU ₂₅
1996 SJ ₃	13.5	0.15	20000226	295.88871	359.91294	266.37426	0.98508	0.1908726	3.0896501	63	3	1996–2000	0.44	M-v	3	Williams	39526	1996 SJ ₃
1996 TG ₆	14.6	0.15	20000226	197.25314	221.63265	350.58878	5.73204	0.1283195	2.2709701	90	4	1994–2000	0.65	M-v	3	Williams	38039	1996 TG ₆
1996 TJ ₁₀	14.5	0.15	20000226	137.84246	307.64746	12.34750	19.01346	0.0807229	1.9571117	55	3	1996–2000	0.64	M-v	2	Williams	38770	1996 TJ ₁₀
1996 TL ₁₁	15.5	0.15	20000226	84.11973	267.91764	32.72497	4.51399	0.1395953	2.1896736	48	4	1995–1999	0.55	M-v	2	Williams	37270	1996 TL ₁₁
1996 TR ₁₄	12.4	0.15	20000226	280.29213	267.06762	28.93187	7.12466	0.2248221	3.1614348	66	3	1989–2000	0.54	M-v	2	Williams	39526	1996 TR ₁₄
1996 TL ₁₅	12.3	0.15	20000226	28.46542	2.28428	207.84516	21.20032	0.0255034	3.1999661	32	4	1976–2000	0.74	M-v	1	Williams	35070	1996 TL ₁₅
1996 TM ₁₅	13.1	0.15	20000226	259.86334	188.18015	140.54700	1.58511	0.1770864	3.1338905	34	4	1990–2000	0.63	M-v	1	Williams	31142	1996 TM ₁₅
1996 TD ₄₀	13.2	0.15	20000226	241.91082	221.85387	117.88437	2.37975	0.1415251	3.1002651	42	3	1996–2000	0.55	M-v	4	Williams	34015	1996 TD ₄₀
1996 TC ₅₁	11.3	0.15	20000226	90.59965	181.78969	184.07639	7.02715	0.1006693	5.2548427	57	3	1996–2000	0.59	M-v	3	Williams	37657	1996 TC ₅₁
1996 VS	13.6	0.15	20000226	332.36660	58.46189	193.90679	9.53185	0.0758666	3.2105450	59	5	1994–2000	0.72	M-v	1	Williams	35697	1996 VS
1996 VS ₁	13.7	0.15	20000226	43.44856	51.25044	52.02469	23.29940	0.0895015	1.9304373	84	2	1996–2000	0.48	M-v	2	Williams	39526	1996 VS ₁
1996 VO ₄	14.6	0.15	20000226	146.30687	288.98871	52.59489	23.08050	0.0872823	1.9270305	59	3	1996–2000	0.54	M-v	2	Williams	39526	1996 VO ₄
1996 VG ₉	15.4	0.15	20000226	181.52444	271.06697	46.18324	22.71856	0.1558758	1.8761467	45	3	1996–2000	0.59	M-v	3	Williams	39526	1996 VG ₉
1996 VY ₂₆	14.0	0.15	19961024	34.80218	173.38510	183.85847	0.95015	0.1645307	3.1207573	8	1	13 days	0.05			Williams		1996 VY ₂₆
1996 WA ₁	14.4	0.15	20000226	310.37674	188.69929	286.13726	2.48588	0.0852619	2.2668588	103	3	1996–2000	0.63	M-v	3	Williams	38039	1996 WA ₁
1996 WV ₁	12.3	0.15	20000226	131.20741	209.91449	215.03749	8.44956	0.1492326	3.9664048	31	4	1996–2000	0.62	M-v	2	Williams	34295	1996 WV ₁
1996 WL ₃	16.3	0.15	20000226	54.07488	339.25163	0.67081	5.64236	0.2329780	2.2047151	53	2	1996–1999	0.49	M-v	3	Williams	38770	1996 WL ₃
1996 XK	15.9	0.15	20000226	88.46702	287.52251	8.20670	6.42213	0.2138591	2.2312575	87	3	1995–1999	0.53	M-v	2	Williams	38039	1996 XK
1996 XG ₃	15.0	0.15	20000226	352.44336	359.03391	53.51912	4.64708	0.1611957	2.3060796	33	3	1996–1999	0.71	M-v	4	Williams	37133	1996 XG ₃
1996 XH ₅	14.9	0.15	20000226	326.84326	67.29376	352.11734	6.87447	0.0778436	2.3893752	48	3	1996–1999	0.46	M-v	3	Williams	36344	1996 XH ₅
1996 XJ ₁₂	15.6	0.15	20000226	268.09513	122.04162	56.92648	3.11064	0.1651607	2.3373398	31	2	1996–1999	0.47	M-v	5	Williams	38039	1996 XJ ₁₂
1996 XT ₁₄	16.2	0.15	20000226	157.69966	265.27565	83.54375	24.74428	0.0938416	1.9029901	81	3	1996–2000	0.46	M-v	2	Williams	38770	1996 XT ₁₄
1996 XU ₁₄	14.5	0.15	20000226	101.77173	62.21596	320.87308	16.30739	0.1108887	1.9629642	63	3	1993–2000	0.53	M-v	3	Williams	39526	1996 XU ₁₄
1996 XC ₁₅	14.0	0.15	20000226	292.54107	78.85759	69.34805	0.90152	0.1137915	2.2858835	99	3	1987–2000	0.50	M-v	3	Williams	38770	1996 XC ₁₅
1996 XK ₂₂	15.8	0.15	20000226	87.72743	288.01345	33.21079	3.06285	0.1980653	2.3887854	73	3	1996–1999	0.65	M-v	3	Williams	39173	1996 XK ₂₂
1996 XD ₃₁	14.8	0.15	20000226	28.86614	260.83915	117.82522	5.01728	0.1538748	2.3302108	67	3	1996–1999	0.69	M-v	3	Williams	37658	1996 XD ₃₁
1996 XH ₃₃	15.2	0.15	20000226	20.55747	325.40924	91.53599	7.28244	0.1563221	2.2788110	69	2	1996–2000	0.45	M-v	3	Williams	38039	1996 XH ₃₃
1996 YP	14.4	0.15	20000226	327.34785	168.35591	296.21533	6.23849	0.0541880	2.3034669	68	2	1996–2000	0.54	M-v	4	Williams	38039	1996 YP
1996 YR	15.2	0.15	20000226	32.13287	297.99564	100.27595	7.05237	0.1676899	2.2378944	74	4	1989–2000	0.60	M-v	2	Williams	38039	1996 YR
1996 YW	14.9	0.15	20000226	25.79372	1.90460	72.26801	4.16880	0.0907128	2.1578323	81	2	1996–2000	0.47	M-v	3	Williams	38770	1996 YW
1996 YR ₁	15.2	0.15	20000226	310.49167	164.97273	304.78907	6.34591	0.0888793	2.4516387	46	2	1996–1999	0.70	M-v	4	Williams	38770	1996 YR ₁
1996 YA ₂	13.8	0.15	20000226	278.52231	32.64804	108.46575	9.76489	0.2147152	2.4429340	29	2	1996–1999	0.52	M-v	4	Williams	37133	1996 YA ₂
1996 YE ₂	14.2	0.15	20000226	356.14929	135.49235	298.13384	4.66154	0.0927330	2.3174585	74	2	1996–2000	0.53	M-v	4	Williams	38770	1996 YE ₂
1997 AV	14.7	0.15	20000226	354.27549	126.63260	319.25320	3.93437	0.1238115	2.2702227	82	2	1997–2000	0.59	M-v	4	Williams	38040	1997 AV
1997 AN ₁	14.1	0.15	20000226	215.50618	233.30600	299.84903	12.18048	0.1051708	2.6672374	33	2	1997–1999	0.55	M-v	3	Williams	38040	1997 AN ₁

1997 AQ ₁	15.1	0.15	20000226	319.31769	178.69770	309.97428	4.79293	0.0949804	2.2781106	57	2	1997-2000	0.48	M-v	4	Williams	37658	1997 AQ ₁
1997 AW ₁	14.1	0.15	20000226	351.34888	24.11360	56.14956	4.90212	0.1181914	2.2963733	88	2	1997-2000	0.55	M-v	4	Williams	38040	1997 AW ₁
1997 AD ₂	14.1	0.15	20000226	179.65521	225.22119	33.97374	5.10547	0.0632174	2.3257653	83	3	1997-2000	0.56	M-v	3	Williams	38770	1997 AD ₂
1997 AJ ₂	14.1	0.15	20000226	353.93347	344.32596	106.50313	4.73481	0.0735148	2.2865648	80	2	1996-2000	0.52	M-v	3	Williams	39527	1997 AJ ₂
1997 AN ₂	14.1	0.15	20000226	40.44345	51.14728	331.47501	6.37928	0.1220370	2.3142473	68	3	1985-2000	0.59	M-v	3	Williams	38040	1997 AN ₂
1997 AY ₃	14.4	0.15	20000226	355.34822	286.69452	145.97491	5.22997	0.1399669	2.3231026	67	3	1990-2000	0.72	M-v	2	Williams	37658	1997 AY ₃
1997 AH ₄	16.0	0.15	20000226	349.88280	107.71569	317.60180	1.56929	0.1883268	2.3733378	40	4	1981-1999	0.62	M-v	1	Williams	36522	1997 AH ₄
1997 AE ₅	14.1	0.15	20000226	30.77589	54.18811	310.29563	13.20506	0.1471701	2.4613951	51	2	1997-1999	0.49	M-v	3	Williams	37271	1997 AE ₅
1997 AN ₅	14.7	0.15	20000226	30.78846	349.80039	62.12402	5.65200	0.1263169	2.2549039	101	2	1997-2000	0.46	M-v	2	Williams	39527	1997 AN ₅
1997 AV ₅	14.6	0.15	20000226	259.35019	249.87089	304.45425	3.47211	0.0934251	2.3104731	44	2	1996-2000	0.59	M-v	4	Williams	38770	1997 AV ₅
1997 AX ₅	15.4	0.15	20000226	20.12747	121.14285	299.88761	5.27721	0.1778902	2.2458577	84	2	1997-2000	0.54	M-v	3	Williams	38770	1997 AX ₅
1997 AQ ₆	13.9	0.15	20000226	83.63313	7.36667	68.27529	24.38279	0.0296745	1.8252186	102	3	1997-2000	0.54	M-v	3	Williams	39527	1997 AQ ₆
1997 AR ₆	15.0	0.15	20000226	330.09525	197.01276	271.04256	7.86041	0.1184029	2.1989473	59	3	1986-2000	0.66	M-v	3	Williams	38040	1997 AR ₆
1997 AF ₇	15.1	0.15	20000226	289.80322	359.13420	141.92604	3.84119	0.1574947	2.4218436	40	5	1990-1999	0.70	M-v	2	Williams	39174	1997 AF ₇
1997 AN ₇	14.3	0.15	20000226	323.76280	263.56307	223.10176	2.45019	0.1204878	2.2872568	92	2	1996-2000	0.38	M-v	3	Williams	38040	1997 AN ₇
1997 AY ₇	14.0	0.15	20000226	106.17207	31.49597	299.04100	6.38096	0.1288403	2.3382005	52	3	1997-2000	0.55	M-v	2	Williams	38770	1997 AY ₇
1997 AA ₁₀	15.5	0.15	20000226	86.67533	114.72464	203.43583	1.41260	0.1152609	2.5441549	57	2	1997-1999	0.50	M-v	4	Williams	38040	1997 AA ₁₀
1997 AM ₁₁	16.3	0.15	20000226	17.22284	149.91661	251.03496	1.28193	0.2035940	2.3384915	60	2	1997-1999	0.48	M-v	4	Williams	37271	1997 AM ₁₁
1997 AG ₁₂	16.8	0.15	20000226	29.60511	151.95137	226.69102	1.52484	0.2135424	2.3857197	44	2	1997-1999	0.39	M-v	5	Williams	39174	1997 AG ₁₂
1997 AU ₁₂	14.3	0.15	20000226	343.18940	135.61305	323.17866	6.17642	0.0397733	2.3023249	69	2	1997-2000	0.59	M-v	4	Williams	38770	1997 AU ₁₂
1997 AZ ₁₂	15.2	0.15	20000226	313.76991	30.11145	114.09745	8.88388	0.1595604	2.2652784	28	2	1997-2000	0.63	M-v	4	Williams	38770	1997 AZ ₁₂
1997 AD ₁₃	13.0	0.15	20000226	201.84934	124.78229	93.65821	12.11868	0.2495785	2.5974553	50	4	1977-2000	0.78	M-v	2	Williams	38040	1997 AD ₁₃
1997 AJ ₁₃	14.4	0.15	20000226	348.61289	76.59835	348.98830	8.21652	0.0896043	2.4152249	94	4	1969-1999	0.51	M-v	1	Williams	37271	1997 AJ ₁₃
1997 AM ₁₃	14.2	0.15	20000226	276.60168	104.93568	54.62423	7.17741	0.0416682	2.3622623	86	2	1997-2000	0.50	M-v	4	Williams	38770	1997 AM ₁₃
1997 AD ₁₅	15.8	0.15	20000226	357.55450	324.25368	89.54669	4.93441	0.1593810	2.3300963	35	3	1978-1999	0.69	M-v	2	Williams	36345	1997 AD ₁₅
1997 AA ₁₇	15.3	0.15	20000226	151.15292	129.67134	185.43343	0.65645	0.1511764	2.1522645	37	3	1997-2000	0.70	M-v	3	Williams	38040	1997 AA ₁₇
1997 AB ₁₈	14.0	0.15	20000226	344.83422	93.74596	350.70145	6.59250	0.0754099	2.3922710	69	2	1997-2000	0.53	M-v	4	Williams	38040	1997 AB ₁₈
1997 AC ₁₈	13.9	0.15	20000226	204.61674	106.15996	101.84238	8.60359	0.0966146	2.5956175	39	2	1997-1999	0.56	M-v	4	Williams	37659	1997 AC ₁₈
1997 AV ₁₈	15.2	0.15	20000226	186.66646	228.35787	114.01868	24.52326	0.0939855	1.9353651	28	3	1997-2000	0.57	M-v	4	Williams	39174	1997 AV ₁₈
1997 AN ₂₃	15.3	0.15	20000226	19.26797	117.34211	309.65671	3.99012	0.0840827	2.2354999	64	2	1997-2000	0.59	M-v	3	Williams	38770	1997 AN ₂₃
1997 BG	14.4	0.15	20000226	206.57347	190.05141	132.06481	32.39352	0.1615406	1.9930437	88	3	1997-2000	0.41	M-v	2	Williams	39527	1997 BG
1997 BZ	13.5	0.15	20000226	140.10801	308.19491	299.23921	10.46688	0.1602687	2.6663212	58	2	1996-1999	0.51	M-v	3	Williams	37272	1997 BZ
1997 BM ₁	14.9	0.15	20000226	121.26171	298.28192	326.10485	2.40073	0.0158596	2.6626958	25	2	1997-1999	0.48	M-v	4	Williams	36345	1997 BM ₁
1997 BC ₃	14.3	0.15	20000226	264.37289	190.42980	351.51751	6.45146	0.0441713	2.3649122	52	3	1991-2000	0.65	M-v	3	Williams	38770	1997 BC ₃
1997 BS ₄	15.8	0.15	20000226	36.49569	206.83013	172.02211	2.48150	0.1720124	2.3966452	65	2	1997-1999	0.47	M-v	3	Williams	37659	1997 BS ₄
1997 BD ₅	15.7	0.15	20000226	81.13236	143.17995	192.04031	2.10878	0.2157160	2.4407327	51	3	1997-1999	0.60	M-v	3	Williams	39174	1997 BD ₅
1997 BH ₆	15.6	0.15	20000226	60.40975	174.50652	156.05983	3.94625	0.1290455	2.6456064	25	2	1997-1999	0.59	M-v	4	Williams	36345	1997 BH ₆
1997 BO ₉	14.8	0.15	20000226	284.53221	34.97167	146.23734	4.47466	0.0571619	2.2700927	57	3	1997-2000	0.71	M-v	3	Williams	37660	1997 BO ₉
1997 CB	13.9	0.15	20000226	110.75796	191.20354	156.58347	11.34226	0.2793685	2.3478292	88	3	1997-2000	0.44	M-v	2	Williams	39527	1997 CB
1997 CZ	13.8	0.15	20000226	50.10587	267.93479	119.30426	7.15763	0.0919408	2.3963892	62	2	1997-2000	0.59	M-v	3	Williams	39527	1997 CZ
1997 CB ₁	14.7	0.15	20000226	43.36986	254.53211	165.00076	4.88742	0.1183534	2.2215122	66	2	1997-2000	0.64	M-v	4	Williams	39527	1997 CB ₁
1997 CH ₁	13.7	0.15	20000226	169.80062	279.34288	306.54133	4.80578	0.0457150	2.7276884	72	2	1997-1999	0.58	M-v	3	Williams	37272	1997 CH ₁
1997 CO ₁	14.5	0.15	20000226	264.99388	246.01697	310.05794	1.55491	0.1550363	2.3559852	67	3	1997-2000	0.50	M-v	3	Williams	38771	1997 CO ₁
1997 CW ₁	14.9	0.15	20000226	284.75439	31.78411	114.14349	7.98083	0.0827753	2.4249240	55	2	1997-1999	0.49	M-v	4	Williams	38041	1997 CW ₁
1997 CG ₄	15.1	0.15	20000226	77.93747	29.03477	341.13260	7.24814	0.1345779	2.2847277	72	2	1997-2000	0.53	M-v	4	Williams	38771	1997 CG ₄
1997 CM ₄	15.1	0.15	20000226	54.01766	39.11193	359.25869	4.90769	0.1051667	2.2461318	61	2	1997-2000	0.49	M-v	4	Williams	38771	1997 CM ₄
1997 CV ₄	15.2	0.15	20000226	355.30428	91.40551	316.96848	13.24046	0.2035095	2.4352337	43	2	1997-1999	0.51	M-v	4	Williams	37272	1997 CV ₄
1997 CX ₆	16.0	0.15	20000226	20.81656	107.15793	317.15631	6.15410	0.1043998	2.2740532	39	2	1997-1999	0.58	M-v	4	Williams	37661	1997 CX ₆
1997 CD ₇	15.1	0.15	20000226	285.21838	158.06305	355.52564	2.61977	0.1116530	2.3939645	59	2	1997-1999	0.68	M-v	4	Williams	38041	1997 CD ₇
1997 CF ₉	15.1	0.15	20000226	7.24247	70.06485	333.63380	6.54984	0.2358660	2.4298266	82	2	1997-1999	0.48	M-v	3	Williams	37272	1997 CF ₉
1997 CK ₁₂	16.2	0.15	20000226	338.35213	94.32117	341.58315	1.89647	0.1790800	2.4577962	42	4	1993-1999	0.49	M-v	1	Williams	36523	1997 CK ₁₂
1997 CL ₁₃	14.3	0.15	20000226	315.85725	321.79391	138.81113	8.50158	0.1477672	2.5566676	40	2	1997-1999	0.62	M-v	4	Williams	37272	1997 CL ₁₃
1997 CS ₁₉	14.3	0.15	20000226	234.88965	134.59969	77.62724	5.37694	0.1212170	2.4740298	62	4	1996-1999	0.55	M-v	1	Williams	38041	1997 CS ₁₉

1997 CH ₂₀	14.9	0.15	20000226	86.25629	251.88634	128.86430	5.27963	0.1640419	2.2482271	38	2	1997–2000	0.55	M-v	4	Williams	38456	1997 CH ₂₀
1997 CC ₂₁	15.4	0.15	20000226	96.98909	243.52524	79.25959	3.47794	0.2048073	2.4450344	50	2	1997–1999	0.53	M-v	4	Williams	37661	1997 CC ₂₁
1997 CE ₂₂	14.6	0.15	20000226	335.76543	124.55603	354.09523	6.98537	0.1522448	2.3312385	88	3	1995–2000	0.66	M-v	3	Williams	38771	1997 CE ₂₂
1997 CT ₂₅	15.5	0.15	20000226	113.48584	222.50551	115.95304	7.39256	0.1545036	2.2634932	29	3	1997–2000	0.74	M-v	3	Williams	38456	1997 CT ₂₅
1997 CB ₂₆	13.9	0.15	20000226	10.43165	112.16996	321.03387	5.94902	0.0676533	2.3532857	75	2	1997–2000	0.48	M-v	3	Williams	38771	1997 CB ₂₆
1997 CG ₂₆	14.8	0.15	20000226	275.52799	133.25349	46.93804	4.72879	0.1084099	2.3940114	55	3	1997–1999	0.72	M-v	3	Williams	38041	1997 CG ₂₆
1997 CL ₂₆	14.9	0.15	20000226	288.83693	92.87108	73.51587	5.10510	0.1514004	2.3867654	69	2	1997–1999	0.61	M-v	4	Williams	38771	1997 CL ₂₆
1997 CY ₂₇	12.9	0.15	20000226	175.82758	234.47533	320.58228	16.09533	0.0306782	2.8564756	54	2	1997–1999	0.67	M-v	3	Williams	38041	1997 CY ₂₇
1997 CB ₂₈	14.3	0.15	20000226	87.35847	234.53902	129.94389	5.59452	0.1129807	2.3042101	52	2	1997–2000	0.55	M-v	4	Williams	39527	1997 CB ₂₈
1997 CY ₂₈	14.4	0.15	20000226	13.55953	108.89481	328.35396	7.36250	0.0772965	2.3203799	39	3	1995–2000	0.64	M-v	2	Williams	38771	1997 CY ₂₈
1997 CF ₂₉	13.7	0.15	20000226	314.05841	15.32849	170.13542	2.29957	0.1321146	2.2969604	73	3	1997–2000	0.61	M-v	3	Williams	38771	1997 CF ₂₉
1997 CV ₂₉	7.4	0.15	20000226	353.46411	27.58142	121.20375	8.02205	0.0455275	42.1738856	44	4	1997–2000	0.42	M-v	4	Marsden	36524	1997 CV ₂₉
1997 DL	15.6	0.15	20000226	337.75324	157.76200	326.83773	4.96697	0.1584857	2.2552637	64	3	1997–2000	0.52	M-v	3	Williams	38041	1997 DL
1997 DQ	14.9	0.15	20000226	339.18598	100.45502	2.37371	8.30827	0.1481406	2.3637869	56	2	1997–2000	0.62	M-v	4	Williams	38041	1997 DQ
1997 DW	14.1	0.15	20000226	158.72725	265.44204	338.17618	8.28545	0.1098410	2.7722042	52	3	1990–1999	0.62	M-v	3	Williams	38771	1997 DW
1997 DX	15.0	0.15	20000226	7.60351	296.25493	147.24529	6.05009	0.1390296	2.2947599	57	2	1997–2000	0.67	M-v	4	Williams	39174	1997 DX
1997 EC	14.6	0.15	20000226	81.70799	251.79619	133.40461	6.48901	0.1269138	2.2842148	49	2	1997–2000	0.63	M-v	4	Williams	39175	1997 EC
1997 EE	15.0	0.15	20000226	9.81565	60.16935	43.36987	4.02128	0.0956980	2.2527978	66	2	1997–2000	0.64	M-v	3	Williams	39527	1997 EE
1997 EF	14.1	0.15	20000226	254.32489	127.99984	72.63489	3.90421	0.1364834	2.4428270	81	3	1997–2000	0.55	M-v	3	Williams	38041	1997 EF
1997 EH	14.6	0.15	20000226	302.87335	64.85922	79.25867	3.52378	0.1173420	2.4200696	59	2	1997–2000	0.65	M-v	4	Williams	38771	1997 EH
1997 EM	14.3	0.15	20000226	150.64803	198.02291	71.03260	3.75631	0.1463057	2.7330722	61	3	1990–1999	0.64	M-v	4	Williams	38041	1997 EM
1997 EV	15.3	0.15	20000226	353.22662	66.23724	18.48038	23.52664	0.2389520	2.3418500	95	2	1997–2000	0.59	M-v	3	Williams	38771	1997 EV
1997 EO ₂	14.7	0.15	20000226	15.14092	65.92440	34.45626	5.08002	0.0896750	2.2720163	54	2	1997–2000	0.47	M-v	3	Williams	38771	1997 EO ₂
1997 EY ₂	15.1	0.15	20000226	352.04528	30.15192	118.67549	3.20105	0.0657371	2.1897065	92	3	1997–2000	0.53	M-v	3	Williams	39527	1997 EY ₂
1997 ED ₃	13.9	0.15	20000226	286.37482	40.78480	120.64153	12.54409	0.1185087	2.6457987	48	3	1992–2000	0.59	M-v	2	Williams	39175	1997 ED ₃
1997 EN ₅	15.5	0.15	20000226	34.00559	23.12222	7.29238	2.03675	0.0921963	2.6287975	60	2	1997–1999	0.58	M-v	4	Williams	38771	1997 EN ₅
1997 ED ₇	15.4	0.15	20000226	30.73028	139.53379	257.79438	5.59802	0.1233964	2.4362134	56	2	1997–2000	0.48	M-v	3	Williams	38041	1997 ED ₇
1997 EO ₇	13.0	0.15	20000226	63.77290	321.45645	330.19764	9.20327	0.1712869	3.1632434	112	3	1997–2000	0.67	M-v	2	Williams	38041	1997 EO ₇
1997 ET ₇	13.3	0.15	20000226	109.41625	287.82595	348.71591	21.35795	0.2374438	3.1600888	42	2	1997–1999	0.62	M-v	4	Williams	36348	1997 ET ₇
1997 EF ₁₁	17.3	0.15	20000226	30.88830	182.31929	227.63668	5.79866	0.2211771	2.3014531	32	2	1997–1999	0.50	M-v	4	Williams	39175	1997 EF ₁₁
1997 EH ₁₂	15.0	0.15	20000226	288.97789	325.53355	216.34206	5.99310	0.0414585	2.2819187	38	3	1997–2000	0.40	M-v	3	Williams	39175	1997 EH ₁₂
1997 EX ₁₃	15.1	0.15	20000226	29.46264	96.94144	308.49414	2.14453	0.1589027	2.3756852	117	2	1997–2000	0.50	M-v	3	Williams	38771	1997 EX ₁₃
1997 EK ₁₆	16.0	0.15	20000226	31.61811	228.23571	184.66797	1.86390	0.1960854	2.4110358	52	2	1997–1999	0.54	M-v	3	Williams	38042	1997 EK ₁₆
1997 ET ₁₇	14.6	0.15	20000226	62.21191	163.52182	251.61837	1.27048	0.1516806	2.1901588	62	2	1997–2000	0.50	M-v	4	Williams	38771	1997 ET ₁₇
1997 EQ ₂₂	14.4	0.15	20000226	84.44782	143.38302	160.67361	0.73619	0.1138641	3.1122372	45	2	1997–1999	0.47	M-v	4	Williams	37664	1997 EQ ₂₂
1997 EE ₂₃	13.8	0.15	20000226	9.54677	0.55030	99.35653	7.82427	0.0728652	2.3912389	108	3	1997–2000	0.56	M-v	2	Williams	39527	1997 EE ₂₃
1997 EF ₂₃	14.3	0.15	20000226	18.32123	79.94854	331.92640	6.79126	0.0929281	2.2422229	59	2	1997–2000	0.53	M-v	3	Williams	38042	1997 EF ₂₃
1997 ED ₂₅	14.8	0.15	20000226	28.63807	269.14867	90.66153	6.52094	0.0618060	2.7829512	37	3	1997–1999	0.61	M-v	4	Williams	36348	1997 ED ₂₅
1997 EP ₂₅	14.3	0.15	20000226	343.62407	121.23778	352.16061	2.24006	0.0889668	2.2707375	58	2	1997–2000	0.41	M-v	3	Williams	39527	1997 EP ₂₅
1997 EE ₂₉	15.0	0.15	20000226	286.38029	228.20990	303.93789	0.49836	0.1240404	2.4255730	64	3	1997–1999	0.57	M-v	4	Williams	38042	1997 EE ₂₉
1997 EO ₃₀	13.8	0.15	20000226	20.85022	312.02458	110.83565	7.06601	0.0878253	2.3591436	78	2	1997–2000	0.48	M-v	2	Williams	39527	1997 EO ₃₀
1997 EJ ₃₄	14.5	0.15	20000226	37.87882	308.82652	38.00314	3.03692	0.0095523	2.7192138	38	4	1977–1999	0.63	M-v	2	Williams	36348	1997 EJ ₃₄
1997 EP ₃₅			19970221	345.07517	189.48620	332.29785	5.67953	0.1105158	2.4704712	6	1	2 days	0.26			E Williams	38042	1997 EP ₃₅
1997 EL ₃₆	14.0	0.15	20000226	225.22327	190.64414	327.20502	8.57436	0.0963367	2.7514506	32	2	1997–1999	0.41	M-v	4	Williams	36348	1997 EL ₃₆
1997 EM ₃₆	15.0	0.15	20000226	338.24338	318.50839	148.54689	6.02108	0.1852677	2.2908946	56	2	1997–2000	0.66	M-v	4	Williams	38042	1997 EM ₃₆
1997 ES ₄₂	15.0	0.15	20000226	219.11798	9.99016	200.50561	2.92253	0.0977385	2.5327770	22	2	1997–1999	0.46	M-v	5	Williams	38457	1997 ES ₄₂
1997 EY ₄₅	14.4	0.15	20000226	334.57785	43.57345	81.83377	3.24506	0.1517173	2.3873891	97	3	1995–2000	0.53	M-v	2	Williams	39527	1997 EY ₄₅
1997 EB ₅₇	13.8	0.15	20000226	53.81576	199.56779	148.83515	2.55640	0.1081214	2.9554408	71	2	1997–2000	0.55	M-v	3	Williams	38771	1997 EB ₅₇
1997 FW	14.3	0.15	20000226	31.26551	0.96926	62.44630	11.10268	0.2430660	2.3871873	59	2	1997–2000	0.53	M-v	3	Williams	38771	1997 FW
1997 FE ₁	14.1	0.15	20000226	4.13429	24.73048	29.12025	5.43947	0.0311300	2.7240594	47	2	1997–1999	0.52	M-v	4	Williams	39176	1997 FE ₁
1997 FT ₁	14.3	0.15	20000226	47.34858	287.37024	114.66457	12.44104	0.1502096	2.6231658	50	3	1995–2000	0.50	M-v	2	Williams	38772	1997 FT ₁
1997 FM ₂	14.6	0.15	20000226	2.91049	57.36157	24.96135	6.51388	0.1870167	2.4393858	112	2	1997–2000	0.54	M-v	3	Williams	38772	1997 FM ₂
1997 FO ₂	13.5	0.15	20000226	122.54392	79.23484	188.11286	15.20742	0.0701893	3.1248678	62	2	1997–1999	0.60	M-v	3	Williams	38457	1997 FO ₂

1997 FU ₂	13.0	0.15	20000226	57.69946	341.30652	358.81601	10.76711	0.0979694	3.0510565	74	3	1988–2000	0.62	M-v	3	Williams	38772	1997 FU ₂
1997 FB ₃	13.8	0.15	20000226	178.31859	8.34045	198.15054	10.57766	0.0211704	3.1147041	53	2	1997–1999	0.53	M-v	3	Williams	38042	1997 FB ₃
1997 FC ₃	13.9	0.15	20000226	28.68501	155.36629	218.21989	0.86053	0.1348752	2.9309572	103	4	1992–2000	0.58	M-v	2	Williams	38042	1997 FC ₃
1997 FD ₃	14.5	0.15	20000226	115.45675	290.80658	13.81576	3.24995	0.0583644	2.8186799	67	2	1997–1999	0.68	M-v	4	Williams	38457	1997 FD ₃
1997 FG ₃	14.4	0.15	20000226	344.06661	247.03037	187.85298	4.91467	0.0753469	2.7153611	66	2	1997–1999	0.67	M-v	4	Williams	37273	1997 FG ₃
1997 FK ₃	14.6	0.15	20000226	30.46694	201.58844	185.85334	12.14991	0.1133603	2.7532293	60	4	1992–1999	0.53	M-v	2	Williams	37273	1997 FK ₃
1997 FM ₃	14.5	0.15	20000226	329.56086	72.00160	18.97633	12.64510	0.1456485	2.6319032	86	2	1997–1999	0.53	M-v	4	Williams	38042	1997 FM ₃
1997 FW ₃	15.4	0.15	20000226	206.92399	322.75061	347.36409	4.14230	0.1151343	2.2476388	67	3	1997–2000	0.68	M-v	3	Williams	39527	1997 FW ₃
1997 FZ ₃	14.2	0.15	20000226	65.72500	148.05475	194.92869	1.57544	0.1248611	2.9463363	68	3	1996–1999	0.49	M-v	4	Williams	38772	1997 FZ ₃
1997 FA ₄	13.0	0.15	20000226	152.71092	211.81021	14.80650	15.82549	0.0374963	3.2005187	37	3	1991–1999	0.51	M-v	3	Williams	37666	1997 FA ₄
1997 FC ₄	13.5	0.15	20000226	304.64745	259.46592	185.03421	10.13374	0.0887427	2.9651122	52	4	1994–1999	0.62	M-v	1	Williams	37273	1997 FC ₄
1997 FD ₄	15.2	0.15	20000226	71.83561	245.09650	180.96870	6.49356	0.0490959	2.2510804	68	3	1997–2000	0.73	M-v	2	Williams	39527	1997 FD ₄
1997 FE ₄	13.9	0.15	20000226	204.96650	109.98661	64.26094	2.47031	0.1048759	3.1294128	19	2	1997–1999	0.60	M-v	5	Williams	36350	1997 FE ₄
1997 FG ₄	14.3	0.15	20000226	100.52631	137.81883	195.95661	4.52571	0.0327844	2.6837256	96	3	1997–1999	0.64	M-v	3	Williams	38772	1997 FG ₄
1997 FJ ₄	14.2	0.15	20000226	134.98108	313.92276	320.50525	1.13818	0.0057045	2.8812521	57	4	1994–1999	0.79	M-v	1	Williams	38772	1997 FJ ₄
1997 FM ₄	14.2	0.15	20000226	336.12390	257.83671	202.59059	12.39359	0.1473228	2.5365986	88	2	1997–2000	0.59	M-v	3	Williams	38042	1997 FM ₄
1997 GY	15.7	0.15	20000226	351.45945	339.59894	201.74977	2.66551	0.0957718	2.1410234	87	3	1997–2000	0.49	M-v	3	Williams	39527	1997 GY
1997 GJ ₁	15.2	0.15	20000226	33.22319	173.38505	184.20630	10.21446	0.1879991	2.9912346	29	2	1997–1999	0.45	M-v	4	Williams	36800	1997 GJ ₁
1997 GT ₁	15.4	0.15	20000226	55.25315	177.16306	202.42542	1.64530	0.0699158	2.5738223	45	2	1997–1999	0.50	M-v	4	Williams	38042	1997 GT ₁
1997 GT ₃	13.4	0.15	20000226	106.72113	275.75066	17.53913	9.58754	0.0819136	3.0691077	87	2	1997–2000	0.63	M-v	3	Williams	38772	1997 GT ₃
1997 GU ₃	13.4	0.15	20000226	86.75904	305.82688	34.67446	6.49541	0.0654672	2.7751791	75	2	1997–2000	0.50	M-v	3	Williams	38772	1997 GU ₃
1997 GV ₃	15.0	0.15	20000226	299.49468	171.08113	26.46523	7.37295	0.0652383	2.2923776	40	3	1997–2000	0.67	M-v	3	Williams	39527	1997 GV ₃
1997 GL ₆	14.8	0.15	20000226	105.97494	216.41949	190.39748	3.27310	0.1347243	2.2758933	80	3	1997–2000	0.59	M-v	3	Williams	39527	1997 GL ₆
1997 GB ₇	14.5	0.15	20000226	264.02011	186.32391	47.22875	3.30957	0.0124119	2.3756599	96	3	1997–2000	0.63	M-v	3	Williams	39527	1997 GB ₇
1997 GD ₇	14.2	0.15	20000226	164.00381	159.53998	75.61857	2.00132	0.0801003	3.216028	45	2	1997–1999	0.62	M-v	4	Williams	38772	1997 GD ₇
1997 GG ₇	15.0	0.15	20000226	175.59273	169.26205	181.50430	4.36909	0.2000667	2.3168495	78	3	1997–2000	0.67	M-v	3	Williams	39527	1997 GG ₇
1997 GZ ₇	13.6	0.15	20000226	64.11212	297.64018	41.39690	13.85447	0.0277243	3.1710834	80	3	1988–1999	0.66	M-v	3	Williams	38043	1997 GZ ₇
1997 GC ₈	14.7	0.15	20000226	164.75718	331.51613	35.04238	8.60917	0.1400620	2.2481924	79	3	1997–2000	0.56	M-v	3	Williams	39527	1997 GC ₈
1997 GG ₈	15.2	0.15	20000226	20.27205	248.03502	218.60846	5.82379	0.0606814	2.4021547	46	3	1997–2000	0.60	M-v	3	Williams	38772	1997 GG ₈
1997 GK ₈	14.1	0.15	20000226	193.72718	215.35741	354.87288	1.37768	0.1017155	3.1219064	72	4	1993–1999	0.64	M-v	1	Williams	38043	1997 GK ₈
1997 GM ₈	14.7	0.15	20000226	129.00973	145.64295	222.71514	5.84005	0.1476109	2.4422857	66	3	1997–2000	0.49	M-v	3	Williams	39527	1997 GM ₈
1997 GF ₉	14.7	0.15	20000226	302.70377	282.93613	203.32228	13.36819	0.1011633	2.6256017	61	2	1997–2000	0.61	M-v	4	Williams	38043	1997 GF ₉
1997 GZ ₉	15.7	0.15	20000226	349.62138	81.49594	21.22785	5.48391	0.1732305	2.4127029	70	2	1997–2000	0.69	M-v	4	Williams	38772	1997 GZ ₉
1997 GV ₁₀	15.8	0.15	20000226	333.63743	281.09445	190.66577	1.99260	0.1608352	2.4686990	31	2	1997–1999	0.47	M-v	4	Williams	38043	1997 GV ₁₀
1997 GM ₁₁	14.3	0.15	20000226	67.73728	319.65865	4.69776	9.02054	0.0518254	3.0941806	37	2	1997–1999	0.66	M-v	4	Williams	36892	1997 GM ₁₁
1997 GY ₁₂	14.5	0.15	20000226	60.00172	196.01885	179.85291	2.59928	0.1237167	2.6553821	42	2	1997–2000	0.66	M-v	4	Williams	39177	1997 GY ₁₂
1997 GJ ₁₃	15.4	0.15	20000226	176.86471	127.61696	206.54428	2.28539	0.2430410	2.3245123	67	3	1997–2000	0.56	M-v	4	Williams	39527	1997 GJ ₁₃
1997 GO ₁₃	15.8	0.15	20000226	225.55442	36.23915	282.84771	0.49130	0.1853321	2.1531922	43	5	1991–2000	0.66	M-v	3	Williams	39527	1997 GO ₁₃
1997 GB ₁₄	14.5	0.15	20000226	86.35410	186.43975	232.35131	3.55721	0.1296791	2.1979462	59	3	1997–2000	0.56	M-v	2	Williams	39527	1997 GB ₁₄
1997 GT ₁₅	14.3	0.15	20000226	176.92159	189.16519	62.50219	1.43852	0.0522791	2.7476371	62	3	1997–1999	0.54	M-v	3	Williams	38772	1997 GT ₁₅
1997 GJ ₁₆	14.8	0.15	20000226	348.60078	10.27641	50.69291	2.54829	0.0556725	2.8350879	60	2	1997–1999	0.64	M-v	4	Williams	38458	1997 GJ ₁₆
1997 GP ₁₆	14.0	0.15	20000226	51.91791	329.95917	28.30446	2.62691	0.0686131	2.8965841	44	2	1997–1999	0.55	M-v	4	Williams	38458	1997 GP ₁₆
1997 GS ₁₆	13.4	0.15	20000226	284.62262	304.85853	172.16136	1.97338	0.0212412	2.9337325	78	2	1997–1999	0.63	M-v	4	Williams	38043	1997 GS ₁₆
1997 GZ ₁₆	14.7	0.15	20000226	182.17434	144.97118	205.68176	7.36166	0.1720183	2.1686321	74	3	1997–2000	0.67	M-v	3	Williams	39527	1997 GZ ₁₆
1997 GA ₁₇	15.8	0.15	20000226	156.40308	6.35482	348.03102	2.00587	0.1019305	2.2469621	62	3	1997–2000	0.60	M-v	4	Williams	39527	1997 GA ₁₇
1997 GF ₁₇	14.3	0.15	20000226	288.61172	9.12810	213.87138	5.24232	0.1351072	2.2492589	96	3	1997–2000	0.52	M-v	3	Williams	39527	1997 GF ₁₇
1997 GT ₁₇	14.4	0.15	20000226	48.42503	4.84657	16.65367	15.34910	0.0674286	2.7052410	36	2	1997–1999	0.48	M-v	3	Williams	39178	1997 GT ₁₇
1997 GJ ₁₈	13.6	0.15	20000226	71.89312	292.76652	23.21434	22.72695	0.0587235	3.1544081	30	2	1997–1999	0.59	M-v	3	Williams	37668	1997 GJ ₁₈
1997 GE ₂₀	13.9	0.15	20000226	307.79581	280.08767	169.15927	2.70223	0.0633240	2.9363713	48	3	1992–1999	0.62	M-v	2	Williams	37273	1997 GE ₂₀
1997 GV ₂₀	14.7	0.15	20000226	290.97793	280.18112	231.69375	2.88476	0.1603405	2.5277378	71	3	1997–1999	0.54	M-v	3	Williams	38772	1997 GV ₂₀
1997 GX ₂₀	15.4	0.15	20000226	154.42057	154.05741	215.17351	3.23205	0.1007973	2.1653607	73	3	1997–2000	0.74	M-v	3	Williams	39528	1997 GX ₂₀
1997 GL ₂₁	13.8	0.15	20000226	339.72730	80.70849	358.97091	1.48231	0.0225416	2.9484718	92	3	1997–1999	0.57	M-v	3	Williams	38772	1997 GL ₂₁
1997 GX ₂₁	13.3	0.15	20000226	70.82847	261.67081	99.13432	3.65629	0.0740605	2.8969775	85	3	1997–2000	0.57	M-v	3	Williams	38772	1997 GX ₂₁

1997 GE ₂₂	13.9	0.15	20000226	248.07335	236.65515	36.57061	6.20652	0.2209852	2.3489749	78	3	1997–2000	0.59	M-v	3	Williams	39528	1997 GE ₂₂
1997 GN ₂₂	14.3	0.15	20000226	245.78671	239.01764	296.29463	0.74586	0.0209750	2.9416954	67	3	1997–1999	0.58	M-v	3	Williams	36892	1997 GN ₂₂
1997 GS ₂₂	14.5	0.15	20000226	285.82359	103.65709	48.11723	3.74642	0.0233124	2.7799551	68	2	1997–1999	0.49	M-v	4	Williams	38043	1997 GS ₂₂
1997 GT ₂₂	13.0	0.15	20000226	144.16212	239.83288	40.99207	10.78457	0.0738624	2.9856519	108	2	1997–1999	0.48	M-v	3	Williams	38043	1997 GT ₂₂
1997 GZ ₂₂	14.3	0.15	20000226	324.94961	273.83253	192.87698	5.54339	0.0556477	2.8010040	70	3	1997–2000	0.66	M-v	3	Williams	38772	1997 GZ ₂₂
1997 GN ₂₃	14.4	0.15	20000226	309.85693	125.96596	23.57619	6.60063	0.1434951	2.5279066	63	2	1997–2000	0.62	M-v	4	Williams	38459	1997 GN ₂₃
1997 GO ₂₃	13.3	0.15	20000226	138.86921	230.48721	23.88148	5.66141	0.0887528	3.3544035	71	4	1972–1999	0.67	M-v	1	Williams	39178	1997 GO ₂₃
1997 GP ₂₄	14.1	0.15	20000226	120.48358	253.34624	50.39695	10.68567	0.0612710	2.9894190	63	2	1997–1999	0.57	M-v	3	Williams	38043	1997 GP ₂₄
1997 GZ ₂₄	14.1	0.15	20000226	358.95097	196.80484	185.30290	15.47202	0.0176626	3.1291400	36	2	1997–1999	0.57	M-v	3	Williams	37669	1997 GZ ₂₄
1997 GR ₂₅	14.3	0.15	20000226	211.67005	216.49952	70.14595	3.62645	0.1762778	2.4225342	47	3	1997–2000	0.72	M-v	3	Williams	38773	1997 GR ₂₅
1997 GA ₂₆	14.3	0.15	20000226	280.41877	191.57525	51.68337	7.19797	0.1560139	2.2354471	131	3	1997–2000	0.58	M-v	3	Williams	39528	1997 GA ₂₆
1997 GB ₂₆	14.1	0.15	20000226	308.32075	105.55799	41.89170	14.22191	0.1389756	2.5257508	72	3	1983–2000	0.58	M-v	2	Williams	38773	1997 GB ₂₆
1997 GQ ₂₆	15.1	0.15	20000226	344.07886	228.40565	183.84642	7.13738	0.1422115	2.7996941	44	3	1992–1999	0.50	M-v	3	Williams	36352	1997 GQ ₂₆
1997 GH ₂₈	17.6	0.15	20000226	47.57613	104.99686	354.65108	7.01462	0.3714479	2.0039172	25	3	1993–2000	0.59	M-v	3	Williams	39528	1997 GH ₂₈
1997 GO ₂₈	14.7	0.15	20000226	238.40067	181.06499	83.90574	3.42572	0.1867332	2.4114190	63	2	1997–2000	0.79	M-v	4	Williams	38773	1997 GO ₂₈
1997 GE ₃₂	13.8	0.15	20000226	111.92767	279.62950	19.06380	7.98490	0.1229476	3.0791414	59	2	1997–1999	0.66	M-v	3	Williams	38459	1997 GE ₃₂
1997 GX ₃₂	14.0	0.15	20000226	171.17542	269.87277	349.51043	2.22396	0.0184889	2.7276008	51	2	1997–1999	0.53	M-v	4	Williams	39179	1997 GX ₃₂
1997 GC ₃₃	15.0	0.15	20000226	51.52224	92.19647	346.56894	2.74356	0.1234686	2.2674635	71	3	1997–2000	0.72	M-v	2	Williams	39528	1997 GC ₃₃
1997 GL ₃₄	14.2	0.15	20000226	294.34311	130.19284	45.24144	2.95584	0.1216778	2.4122327	78	3	1997–2000	0.69	M-v	4	Williams	38773	1997 GL ₃₄
1997 GQ ₃₄	14.8	0.15	20000226	27.01407	10.85799	20.57761	12.91567	0.0978197	2.7895404	70	2	1997–1999	0.63	M-v	3	Williams	38043	1997 GQ ₃₄
1997 GW ₃₄	14.4	0.15	20000226	346.44130	233.85040	195.45454	8.04678	0.1256990	2.7419538	52	2	1997–1999	0.70	M-v	4	Williams	37141	1997 GW ₃₄
1997 GR ₃₅	13.8	0.15	20000226	72.33514	173.56042	219.17106	11.55901	0.2878131	2.6563111	43	2	1997–2000	0.61	M-v	4	Williams	39528	1997 GR ₃₅
1997 GX ₃₅	14.7	0.15	20000226	182.34870	150.94220	180.54109	4.94161	0.1091407	2.3634045	80	3	1997–2000	0.65	M-v	3	Williams	39528	1997 GX ₃₅
1997 GB ₃₆	15.0	0.15	20000226	20.53485	56.03194	66.84119	6.98104	0.1599861	2.2525463	69	2	1997–2000	0.50	M-v	3	Williams	39528	1997 GB ₃₆
1997 GH ₃₆	13.5	0.15	20000226	301.23591	102.43783	37.59441	13.65748	0.1026942	2.6932540	91	2	1997–2000	0.55	M-v	4	Williams	38043	1997 GH ₃₆
1997 GD ₃₈	15.1	0.15	20000226	165.24369	301.36987	58.35976	7.89249	0.1258730	2.2909787	46	3	1997–2000	0.56	M-v	3	Williams	39528	1997 GD ₃₈
1997 GM ₄₀	13.5	0.15	20000226	0.62378	54.58940	66.33308	8.50304	0.1915181	2.3213486	85	3	1953–2000	0.54	M-v	2	Williams	39528	1997 GM ₄₀
1997 GO ₄₀	15.8	0.15	20000226	282.31552	105.05270	62.07152	3.92344	0.1363392	2.6068786	40	2	1997–1999	0.61	M-v	4	Williams	38773	1997 GO ₄₀
1997 GM ₄₁	12.7	0.15	20000226	186.94035	160.02400	48.08756	10.02465	0.0276057	3.1698546	55	2	1997–1999	0.80	M-v	4	Williams	38044	1997 GM ₄₁
1997 HY ₆	13.3	0.15	20000226	127.17512	227.63153	52.77021	10.18020	0.0239683	3.0898437	55	2	1997–1999	0.58	M-v	3	Williams	38044	1997 HY ₆
1997 HF ₇	14.6	0.15	20000226	71.48943	9.81511	54.80927	1.46522	0.1783916	2.3280764	74	3	1997–2000	0.57	M-v	2	Williams	39528	1997 HF ₇
1997 HJ ₈	15.2	0.15	20000226	135.03131	198.25976	176.64022	2.11683	0.2353415	2.3799065	89	3	1997–2000	0.60	M-v	3	Williams	39528	1997 HJ ₈
1997 HY ₉	14.2	0.15	20000226	146.33760	298.71555	52.06423	8.42526	0.1256118	2.4470884	51	3	1997–2000	0.62	M-v	3	Williams	39528	1997 HY ₉
1997 HP ₁₁	13.9	0.15	20000226	349.12380	103.81624	327.65809	1.45997	0.0815798	2.9246940	106	4	1993–2000	0.52	M-v	1	Williams	38773	1997 HP ₁₁
1997 HT ₁₁	15.3	0.15	20000226	249.28513	239.15413	35.32340	4.61569	0.2300429	2.3435692	57	3	1994–2000	0.51	M-v	3	Williams	39528	1997 HT ₁₁
1997 HV ₁₁	14.9	0.15	20000226	96.20386	17.67971	35.87457	6.80706	0.1055969	2.3050283	56	3	1997–2000	0.49	M-v	2	Williams	39528	1997 HV ₁₁
1997 HX ₁₁	14.2	0.15	20000226	307.99411	68.39617	39.61434	9.88890	0.0346210	2.9769438	53	2	1997–1999	0.59	M-v	4	Williams	39179	1997 HX ₁₁
1997 HS ₁₂	14.5	0.15	20000226	252.08489	315.44359	235.60027	1.16923	0.1403714	2.6975813	64	3	1997–1999	0.58	M-v	4	Williams	38044	1997 HS ₁₂
1997 HK ₁₆	13.6	0.15	20000226	25.13661	16.49814	356.67340	1.23430	0.1116955	2.9542325	88	3	1992–1999	0.55	M-v	3	Williams	37274	1997 HK ₁₆
1997 JN	15.2	0.15	20000226	114.44272	300.84907	119.20340	4.18793	0.1493697	2.2172538	65	3	1997–2000	0.67	M-v	3	Williams	32965	1997 JN
1997 JR	13.5	0.15	20000226	164.69139	280.99406	58.97630	13.68159	0.2587077	2.4216749	94	3	1997–2000	0.72	M-v	2	Williams	39528	1997 JR
1997 JU ₇	13.9	0.15	20000226	99.40427	208.99189	202.27699	14.44686	0.1783952	2.3853599	74	3	1997–2000	0.62	M-v	2	Williams	39528	1997 JU ₇
1997 JV ₇	14.3	0.15	20000226	12.59810	330.83626	169.61237	6.69302	0.0886309	2.2989344	123	3	1997–2000	0.58	M-v	2	Williams	39528	1997 JV ₇
1997 JB ₈	15.9	0.15	20000226	247.06529	96.25730	217.91925	4.97113	0.2197286	2.2157893	40	3	1997–2000	0.55	M-v	3	Williams	33498	1997 JB ₈
1997 JH ₁₀	15.2	0.15	20000226	342.55269	324.67321	202.98862	2.37420	0.0869057	2.3077044	59	3	1997–2000	0.65	M-v	4	Williams	39528	1997 JH ₁₀
1997 JN ₁₂	12.5	0.15	20000226	146.43817	221.29868	55.72409	10.73982	0.0630231	3.0153830	106	2	1997–1999	0.50	M-v	3	Williams	38044	1997 JN ₁₂
1997 JM ₁₃	16.4	0.15	20000226	300.51931	110.85336	112.37074	1.00367	0.1463804	2.2568921	39	2	1997–2000	0.62	M-v	5	Williams	39179	1997 JM ₁₃
1997 JY ₁₃	14.4	0.15	20000226	354.26242	353.62019	138.03278	1.33008	0.1492769	2.3753514	77	3	1997–2000	0.60	M-v	3	Williams	39528	1997 JY ₁₃
1997 JJ ₁₅	14.3	0.15	20000226	241.69771	84.05016	211.66081	5.48635	0.1366464	2.2783835	57	3	1997–2000	0.79	M-v	3	Williams	39528	1997 JJ ₁₅
1997 JF ₁₆	15.0	0.15	20000226	185.67755	151.12068	185.06984	4.28852	0.0468426	2.3224387	70	3	1997–2000	0.71	M-v	3	Williams	39528	1997 JF ₁₆
1997 JN ₁₆	13.9	0.15	20000226	143.43802	151.19890	196.81560	4.17246	0.1785351	2.6092150	87	3	1997–2000	0.73	M-v	3	Williams	39528	1997 JN ₁₆
1997 JQ ₁₆	15.6	0.15	20000226	327.88341	69.49227	125.53457	2.22717	0.1764823	2.2316922	62	2	1997–2000	0.52	M-v	4	Williams	39180	1997 JQ ₁₆
1997 JR ₁₆	15.8	0.15	19970422	285.42481	291.59855	18.14458	1.70103	0.1391684	2.9153692	17	1	7 days	0.86			Williams		1997 JR ₁₆

1997 KA	12.7	0.15	20000226	198.85135	62.83349	254.34877	12.90704	0.1505774	2.6535767	74	3	1997-2000	0.64	M-v	3	Williams	39528	1997 KA
1997 KS	13.7	0.15	20000226	238.72408	73.60134	225.20237	5.72623	0.1357494	2.4571993	52	4	1995-2000	0.67	M-v	2	Williams	39528	1997 KS
1997 KW	14.7	0.15	20000226	226.66151	215.99310	127.28340	6.35286	0.2193182	2.1923504	35	5	1991-2000	0.46	M-v	1	Williams	35072	1997 KW
1997 KO ₂	14.6	0.15	20000226	122.92814	316.86384	90.39103	6.56359	0.1276180	2.2851199	41	3	1997-2000	0.68	M-v	3	Williams	39528	1997 KO ₂
1997 KH ₄	13.7	0.15	20000226	348.39902	73.20742	103.46847	6.32226	0.0794860	2.2606266	90	3	1997-2000	0.50	M-v	2	Williams	39528	1997 KH ₄
1997 LR	16.8	0.15	20000226	249.97364	204.28092	123.49941	7.37063	0.2842981	2.2004942	46	3	1994-2000	0.45	M-v	4	Williams	30088	1997 LR
1997 LB ₁	13.6	0.15	20000226	18.48976	318.59094	97.21294	15.94831	0.1422325	2.9885438	45	2	1997-2000	0.48	M-v	3	Williams	38044	1997 LB ₁
1997 LP ₁	15.4	0.15	20000226	258.85474	145.30184	146.36809	7.12088	0.1271379	2.2392441	34	2	1997-2000	0.61	M-v	5	Williams	39180	1997 LP ₁
1997 LL ₂	14.9	0.15	20000226	199.33838	134.45569	208.58131	5.96161	0.1532509	2.3044068	46	4	1996-2000	0.63	M-v	1	Williams	39528	1997 LL ₂
1997 LQ ₂	15.6	0.15	20000226	225.52811	89.60445	249.29501	22.53315	0.2818089	2.2934206	64	3	1997-2000	0.48	M-v	2	Williams	33949	1997 LQ ₂
1997 LY ₂	13.7	0.15	20000226	50.68044	170.32083	207.03375	6.98643	0.1630452	3.1607687	49	4	1993-1999	0.69	M-v	1	Williams	39180	1997 LY ₂
1997 LO ₃	14.3	0.15	20000226	283.04213	91.97795	142.17154	2.82715	0.2052948	2.3300051	75	3	1979-2000	0.69	M-v	3	Williams	38773	1997 LO ₃
1997 LB ₄	14.6	0.15	20000226	232.18969	5.04006	310.09028	1.33738	0.2063257	2.5783797	44	4	1993-2000	0.71	M-v	2	Williams	39528	1997 LB ₄
1997 LE ₄	13.0	0.15	20000226	72.93523	102.44851	237.63944	21.13002	0.0793241	3.2295049	70	2	1997-2000	0.55	M-v	3	Williams	38044	1997 LE ₄
1997 LF ₄	15.5	0.15	20000226	303.63526	349.59820	249.47830	9.29575	0.2033401	2.3098812	32	2	1997-2000	0.49	M-v	4	Williams	39180	1997 LF ₄
1997 LT ₄	15.0	0.15	20000226	71.31800	281.87480	113.40705	6.39187	0.0707173	2.7088912	32	2	1997-2000	0.69	M-v	4	Williams	39528	1997 LT ₄
1997 LT ₅	15.4	0.15	20000226	39.10043	261.97095	198.14671	11.51830	0.1946487	2.3963027	39	2	1997-2000	0.57	M-v	4	Williams	39180	1997 LT ₅
1997 LX ₅	15.4	0.15	20000226	278.54651	115.57146	139.47235	1.98062	0.1562960	2.4225391	53	3	1997-2000	0.51	M-v	4	Williams	39181	1997 LX ₅
1997 LA ₆	14.1	0.15	20000226	64.23911	298.11263	102.57209	16.72641	0.1672542	2.7741999	68	2	1997-2000	0.52	M-v	4	Williams	38773	1997 LA ₆
1997 LB ₆	14.5	0.15	20000226	269.38921	26.43387	152.24401	9.77197	0.0831940	2.8023001	28	2	1997-1999	0.54	M-v	4	Williams	38460	1997 LB ₆
1997 LE ₁₀	12.8	0.15	20000226	312.09636	338.26047	139.26128	11.25733	0.0537422	3.0238498	95	3	1997-2000	0.52	M-v	3	Williams	38774	1997 LE ₁₀
1997 MG	14.4	0.15	20000226	319.98435	98.55838	114.57148	6.52052	0.1998497	2.3454319	57	4	1953-2000	0.48	M-v	1	Williams	39528	1997 MG
1997 MQ ₁	14.7	0.15	20000226	336.06850	15.06285	206.62805	5.85808	0.0898481	2.2544177	53	3	1997-2000	0.70	M-v	3	Williams	39528	1997 MQ ₁
1997 MU ₁	14.5	0.15	20000226	291.41115	97.26217	113.99965	14.01728	0.2144656	2.5405662	40	2	1997-2000	0.54	M-v	4	Williams	38460	1997 MU ₁
1997 MA ₃	14.4	0.15	20000226	227.39435	282.08593	69.26693	5.17028	0.1742461	2.2667429	46	3	1997-2000	0.65	M-v	3	Williams	34015	1997 MA ₃
1997 MP ₃	15.9	0.15	20000226	279.47546	186.04135	122.87359	5.17390	0.1657739	2.1664756	26	3	1997-2000	0.49	M-v	4	Williams	34201	1997 MP ₃
1997 MT ₃	15.4	0.15	20000226	221.95305	183.08615	128.11728	3.41399	0.0959280	2.4612866	34	3	1997-2000	0.48	M-v	3	Williams	39528	1997 MT ₃
1997 MN ₄	14.5	0.15	20000226	223.14417	55.53710	274.57640	4.69426	0.2595222	2.4236328	43	3	1997-2000	0.60	M-v	4	Williams	39528	1997 MN ₄
1997 MV ₄	13.0	0.15	20000226	114.65938	241.42319	112.12982	9.74828	0.0744538	3.0318197	79	3	1997-2000	0.60	M-v	3	Williams	38774	1997 MV ₄
1997 MY ₄	14.7	0.15	20000226	286.23409	85.01692	153.07626	2.81072	0.1470943	2.4101656	60	3	1997-2000	0.50	M-v	4	Williams	39529	1997 MY ₄
1997 MY ₅	15.3	0.15	20000226	339.56875	317.37140	228.70297	10.13827	0.1235480	2.5599655	34	3	1997-2000	0.44	M-v	4	Williams	39529	1997 MY ₅
1997 MQ ₆	13.6	0.15	20000226	80.66836	279.69977	77.86283	18.65423	0.1889670	3.1315780	39	2	1997-2000	0.63	M-v	3	Williams	38460	1997 MQ ₆
1997 MW ₆	15.9	0.15	20000226	142.96002	194.90161	196.08457	11.35220	0.2502490	2.4094447	38	3	1997-2000	0.63	M-v	3	Williams	34015	1997 MW ₆
1997 MR ₈	14.1	0.15	20000226	288.47473	89.87209	131.67079	12.87782	0.2177810	2.5979086	55	3	1996-2000	0.63	M-v	2	Williams	39529	1997 MR ₈
1997 MP ₉	13.9	0.15	20000226	57.01398	260.01726	124.56387	12.47232	0.1288234	3.0649143	44	3	1997-2000	0.60	M-v	3	Williams	39181	1997 MP ₉
1997 NA	15.6	0.15	20000226	213.31434	122.86559	220.99116	5.68548	0.1792760	2.2476357	34	4	1996-2000	0.64	M-v	1	Williams	33556	1997 NA
1997 NP	13.4	0.15	20000226	103.26529	115.09815	295.76556	4.73559	0.1005767	2.9114016	56	3	1997-2000	0.62	M-v	3	Williams	39529	1997 NP
1997 NE ₃	13.5	0.15	20000226	350.55012	247.84847	293.58324	6.55651	0.1551001	2.3966159	98	3	1997-2000	0.60	M-v	3	Williams	39529	1997 NE ₃
1997 NM ₃	15.3	0.15	20000226	306.77986	83.05262	150.88675	2.67433	0.1815932	2.3442647	65	2	1997-2000	0.54	M-v	4	Williams	39182	1997 NM ₃
1997 NR ₁₀	16.6	0.15	20000226	246.64853	152.63217	156.32040	5.25055	0.2400428	2.3951146	40	4	1993-2000	0.54	M-v	2	Williams	35700	1997 NR ₁₀
1997 OA	12.8	0.15	20000226	144.22988	186.41188	92.79784	23.26538	0.0575317	3.2008762	64	2	1997-2000	0.56	M-v	3	Williams	38774	1997 OA
1997 OG ₁	15.9	0.15	20000226	317.99892	288.44374	300.73997	22.14171	0.2523227	2.2730497	39	2	1997-2000	0.67	M-v	3	Williams	39529	1997 OG ₁
1997 OU ₂	15.5	0.15	20000226	254.77920	178.80463	150.51287	8.81401	0.2098780	2.2952134	45	4	1990-2000	0.74	M-v	2	Williams	34016	1997 OU ₂
1997 PZ ₁	14.3	0.15	20000226	139.81886	213.56815	155.47989	2.89420	0.1007182	2.9678031	80	3	1997-2000	0.60	M-v	3	Williams	39529	1997 PZ ₁
1997 PJ ₂	15.9	0.15	20000226	211.66469	221.09107	124.32845	4.74585	0.1843751	2.5343008	41	4	1973-2000	0.45	M-v	1	Marsden	33752	1997 PJ ₂
1997 PP ₂	14.3	0.15	20000226	128.52983	52.95401	310.79923	21.63088	0.0911005	3.1696789	41	2	1997-2000	0.46	M-v	3	Williams	39529	1997 PP ₂
1997 PE ₃	14.2	0.15	20000226	311.38193	240.37200	340.23368	9.49296	0.1956885	2.6872378	118	3	1997-2000	0.44	M-v	3	Williams	39529	1997 PE ₃
1997 PR ₃	15.2	0.15	20000226	319.37968	142.08554	110.16438	1.56675	0.1781068	2.3708727	33	3	1993-2000	0.56	M-v	4	Williams	35700	1997 PR ₃
1997 PA ₄	13.0	0.15	20000226	100.70544	93.92721	308.48756	24.26661	0.2628245	3.1663695	60	3	1997-2000	0.55	M-v	3	Williams	38045	1997 PA ₄
1997 PF ₄	14.1	0.15	20000226	193.24464	59.73570	304.14811	6.05532	0.1424605	2.5605024	37	4	1981-2000	0.75	M-v	1	Williams	34016	1997 PF ₄
1997 PJ ₄	12.5	0.15	20000226	111.95177	146.06085	282.30182	12.71233	0.1366621	2.6691449	67	3	1997-2000	0.68	M-v	3	Williams	38774	1997 PJ ₄
1997 PN ₅	13.6	0.15	20000226	163.32332	93.18888	293.46992	12.15010	0.1923021	2.6217670	57	3	1997-2000	0.66	M-v	3	Williams	35701	1997 PN ₅
1997 QB	15.2	0.15	20000226	159.24193	121.86592	264.72051	5.08022	0.0641894	2.6201759	48	3	1997-2000	0.47	M-v	3	Williams	33501	1997 QB

1997 QG	14.1	0.15	20000226	107.11464	296.57795	150.41760	5.43892	0.0963433	2.5666850	79	5	1987-2000	0.60	M-v	1	Williams	35701	1997 QG
1997 QL	14.7	0.15	20000226	72.43677	164.66075	292.40346	8.54477	0.0497887	2.7378275	50	3	1997-2000	0.55	M-v	3	Williams	39529	1997 QL
1997 QP	13.0	0.15	20000226	329.59759	261.41643	328.08008	13.61751	0.0670171	2.5830390	69	3	1997-2000	0.57	M-v	3	Williams	38774	1997 QP
1997 QU	15.1	0.15	20000226	187.63600	184.47077	196.91258	4.48289	0.2866777	2.5706279	49	4	1989-2000	0.55	M-v	1	Williams	34016	1997 QU
1997 QZ	15.1	0.15	20000226	253.93952	133.49677	173.81033	4.69344	0.2265173	2.4199237	32	2	1997-2000	0.50	M-v	4	Williams	39182	1997 QZ
1997 QC ₁	15.0	0.15	20000226	298.45794	119.79003	169.81671	3.41097	0.1409141	2.2869716	53	5	1949-2000	0.51	M-v	1	Williams	39182	1997 QC ₁
1997 QE ₁	12.8	0.15	20000226	5.40546	2.23486	91.59741	16.27932	0.1372547	2.6329511	82	3	1982-2000	0.49	M-v	2	Williams	39529	1997 QE ₁
1997 QA ₂	14.3	0.15	20000226	295.07569	350.15656	266.55747	4.03290	0.0303413	2.7696894	47	4	1989-2000	0.55	M-v	1	Williams	34873	1997 QA ₂
1997 QC ₂	14.4	0.15	20000226	222.40799	175.95792	133.25363	6.59745	0.2866572	2.6836250	32	2	1997-2000	0.67	M-v	4	Williams	39182	1997 QC ₂
1997 QF ₂	13.2	0.15	20000226	148.33954	5.40805	5.45883	12.92524	0.1444109	3.0620053	50	3	1997-2000	0.74	M-v	3	Williams	39529	1997 QF ₂
1997 QS ₂	13.6	0.15	20000226	79.30242	7.46413	72.07798	6.45942	0.1614511	3.1485595	92	3	1997-2000	0.71	M-v	3	Williams	39529	1997 QS ₂
1997 QN ₃	13.9	0.15	20000226	197.82676	356.27846	23.53286	7.28053	0.1290029	2.7360113	34	5	1983-2000	0.68	M-v	1	Williams	35701	1997 QN ₃
1997 RH	14.4	0.15	20000226	226.35742	4.23759	317.54429	1.45119	0.0898691	2.6910795	44	2	1997-2000	0.49	M-v	5	Williams	39183	1997 RH
1997 RO	14.3	0.15	20000226	233.59269	129.68665	161.61977	5.21608	0.1010526	2.6933361	52	2	1997-2000	0.59	M-v	3	Williams	39529	1997 RO
1997 RZ	13.7	0.15	20000226	87.21400	151.09543	302.89151	4.48603	0.0669393	2.7726079	64	4	1995-2000	0.70	M-v	1	Williams	35701	1997 RZ
1997 RA ₁	13.3	0.15	20000226	160.40206	11.08075	355.32400	8.85766	0.0301507	3.0623325	116	3	1997-2000	0.56	M-v	2	Williams	39529	1997 RA ₁
1997 RN ₁	16.0	0.15	20000226	221.12522	46.33663	297.70209	2.79188	0.2707907	2.5270980	22	4	1989-2000	0.44	M-v	3	Williams	30680	1997 RN ₁
1997 RC ₃	13.9	0.15	20000226	251.93625	103.70991	177.66608	11.40221	0.1680462	2.7122862	47	3	1997-2000	0.61	M-v	3	Williams	39529	1997 RC ₃
1997 RE ₃	13.0	0.15	20000226	111.17634	110.87557	310.83716	4.75050	0.1507511	3.0856987	54	3	1997-2000	0.66	M-v	3	Williams	34016	1997 RE ₃
1997 RL ₃	13.9	0.15	20000226	228.92354	2.04870	340.31203	5.84375	0.1516146	2.5540724	26	3	1997-2000	0.59	M-v	4	Williams	34203	1997 RL ₃
1997 RV ₈	13.9	0.15	20000226	248.78966	296.16518	36.72640	5.40355	0.1871921	2.4823542	47	3	1997-2000	0.63	M-v	3	Williams	35701	1997 RV ₈
1997 RY ₈	13.3	0.15	20000226	39.77704	336.31459	172.29408	10.55129	0.0999592	3.0317624	82	3	1997-2000	0.48	M-v	3	Williams	39529	1997 RY ₈
1997 RB ₉	13.7	0.15	20000226	226.10762	356.09981	332.29957	4.57586	0.1558867	2.6162978	100	3	1997-2000	0.47	M-v	2	Williams	39529	1997 RB ₉
1997 RM ₉	14.4	0.15	20000226	235.89657	323.99605	356.59880	12.57286	0.1647054	2.7502374	64	3	1997-2000	0.55	M-v	3	Williams	39529	1997 RM ₉
1997 RR ₉	13.8	0.15	20000226	201.43747	175.32524	168.54686	7.57473	0.2496445	2.6880236	57	3	1997-2000	0.61	M-v	3	Williams	39183	1997 RR ₉
1997 RP ₁₀	13.4	0.15	20000226	265.74765	105.40130	158.21130	12.77829	0.1395608	2.6389026	90	3	1997-2000	0.60	M-v	3	Williams	39183	1997 RP ₁₀
1997 SE	14.1	0.15	20000226	160.01758	236.23730	167.41781	15.87835	0.1266100	2.5340358	72	3	1997-2000	0.51	M-v	2	Williams	34296	1997 SE
1997 SR	13.6	0.15	20000226	210.89838	353.41693	324.33042	11.91801	0.1738586	2.7173647	77	3	1997-2000	0.55	M-v	3	Williams	39529	1997 SR
1997 SX	12.8	0.15	20000226	202.79676	313.12401	46.61701	10.56182	0.1016313	3.0628680	51	3	1997-2000	0.63	M-v	3	Williams	35701	1997 SX
1997 SK ₁	14.1	0.15	20000226	63.36203	157.02280	338.61504	3.88329	0.0866461	2.6312698	75	5	1991-2000	0.56	M-v	1	Williams	33753	1997 SK ₁
1997 SM ₁	12.3	0.15	20000226	342.05266	5.33484	199.20178	13.38849	0.1065524	2.6822303	101	3	1997-2000	0.48	M-v	2	Williams	39529	1997 SM ₁
1997 SN ₁	13.8	0.15	20000226	273.06912	299.30731	336.63190	12.26598	0.1678758	2.6877800	71	3	1997-2000	0.51	M-v	3	Williams	39529	1997 SN ₁
1997 SA ₂	13.8	0.15	20000226	176.88351	352.12045	23.68869	2.75030	0.1090194	2.9872026	85	3	1997-2000	0.51	M-v	3	Williams	34017	1997 SA ₂
1997 SE ₂	15.0	0.15	20000226	165.77689	139.39602	262.36379	0.95982	0.0675789	2.8684731	37	3	1997-2000	0.42	M-v	3	Williams	34297	1997 SE ₂
1997 SL ₂	14.6	0.15	20000226	138.11987	305.15955	125.06942	6.80442	0.0215831	2.6795681	50	3	1997-2000	0.52	M-v	3	Williams	35701	1997 SL ₂
1997 SZ ₂	13.6	0.15	20000226	87.83082	131.41514	323.84037	1.25248	0.1409056	3.1356688	65	3	1997-2000	0.70	M-v	3	Williams	39529	1997 SZ ₂
1997 SA ₃	13.9	0.15	20000226	247.08571	107.15995	202.14031	3.52601	0.0648520	2.7330290	73	4	1991-2000	0.57	M-v	1	Williams	34297	1997 SA ₃
1997 SH ₃	14.5	0.15	20000226	168.96018	13.77639	348.51828	10.37051	0.0832472	3.1092970	52	2	1997-2000	0.46	M-v	4	Williams	39183	1997 SH ₃
1997 SM ₃	12.9	0.15	20000226	312.94641	265.47449	325.65134	14.70115	0.0918438	2.6353737	66	3	1997-2000	0.60	M-v	3	Williams	39529	1997 SM ₃
1997 SD ₄	13.9	0.15	20000226	171.73734	160.54737	206.73624	4.70238	0.1626523	3.1187492	29	3	1997-2000	0.50	M-v	3	Williams	39529	1997 SD ₄
1997 SE ₄	14.0	0.15	20000226	121.36281	55.43228	4.82133	1.72830	0.0859156	2.9216038	101	4	1992-2000	0.65	M-v	1	Williams	34017	1997 SE ₄
1997 SS ₄	14.3	0.15	20000226	233.49397	76.17558	242.23079	3.35195	0.0683304	2.7784816	51	3	1997-2000	0.68	M-v	4	Williams	34874	1997 SS ₄
1997 SZ ₄	13.5	0.15	20000226	189.03848	322.21272	8.47141	21.38287	0.0840609	3.1601053	34	3	1997-2000	0.44	M-v	3	Williams	39529	1997 SZ ₄
1997 SG ₇	14.1	0.15	20000226	312.57765	170.05073	19.88682	1.21337	0.1162350	3.1467161	47	3	1997-2000	0.58	M-v	4	Williams	38774	1997 SG ₇
1997 SQ ₉	14.4	0.15	20000226	55.66637	116.54890	356.89247	12.94880	0.0800168	3.1038665	54	3	1997-2000	0.51	M-v	3	Williams	39529	1997 SQ ₉
1997 SL ₁₀	14.7	0.15	20000226	232.57327	136.87011	184.87094	3.44638	0.1245336	2.5279744	34	2	1997-2000	0.51	M-v	4	Williams	39184	1997 SL ₁₀
1997 SR ₁₀	14.0	0.15	20000226	283.62607	272.45375	4.76783	12.08873	0.1443664	2.5537175	59	2	1997-2000	0.37	M-v	3	Williams	39184	1997 SR ₁₀
1997 SN ₁₁	15.6	0.15	20000226	124.82952	352.77517	52.30024	0.26473	0.1946531	3.0827499	26	3	1997-2000	0.55	M-v	4	Williams	33505	1997 SN ₁₁
1997 SV ₁₄	12.4	0.15	20000226	33.40386	139.36023	292.41624	3.96643	0.0888811	5.1100342	34	3	1996-2000	0.43	M-v	3	Williams	38461	1997 SV ₁₄
1997 SF ₁₆	12.9	0.15	20000226	204.26019	135.63094	189.46678	0.76487	0.1268349	3.0523288	36	3	1991-2000	0.69	M-v	5	Williams	39184	1997 SF ₁₆
1997 SS ₁₆	15.0	0.15	20000226	241.52606	27.97259	252.94952	1.13402	0.0838400	2.9621077	24	2	1997-2000	0.37	M-v	4	Williams	39185	1997 SS ₁₆
1997 SD ₂₅	13.0	0.15	20000226	105.46563	253.21717	195.28859	10.39423	0.0694264	3.0391611	46	3	1997-2000	0.60	M-v	3	Williams	35701	1997 SD ₂₅
1997 SN ₂₅	13.2	0.15	20000226	210.57273	16.75291	316.62370	0.99184	0.0999828	2.9262952	70	3	1997-2000	0.75	M-v	4	Williams	39185	1997 SN ₂₅

1997 SJ ₂₉	13.6	0.15	20000226	66.73634	172.22807	289.10682	9.30570	0.0676543	2.9541132	32	3	1997-2000	0.63	M-v	4	Williams	39530	1997 SJ ₂₉
1997 SS ₃₁	13.1	0.15	20000226	78.01054	192.40283	238.49909	4.32010	0.1655211	3.1845903	92	3	1997-2000	0.67	M-v	3	Williams	39530	1997 SS ₃₁
1997 TR	13.0	0.15	20000226	178.82219	327.66400	5.69619	8.86497	0.1160696	3.0699671	97	3	1997-2000	0.61	M-v	3	Williams	39530	1997 TR
1997 TK ₁	13.8	0.15	20000226	58.27751	153.52082	329.74656	4.02131	0.0958273	2.6471874	59	4	1993-2000	0.58	M-v	1	Williams	39530	1997 TK ₁
1997 TM ₁	15.3	0.15	20000226	270.37932	104.54906	183.04950	0.86582	0.1559023	2.4107844	55	2	1997-2000	0.55	M-v	4	Williams	39185	1997 TM ₁
1997 TL ₆	15.2	0.15	20000226	286.24432	215.65634	78.87486	3.47352	0.1882631	2.4390640	34	4	1996-2000	0.50	M-v	1	Williams	33558	1997 TL ₆
1997 TW ₉	14.1	0.15	20000226	164.07924	288.90191	89.88221	2.92674	0.1280882	3.0637117	65	4	1992-2000	0.58	M-v	1	Williams	35702	1997 TW ₉
1997 TZ ₁₀	16.1	0.15	20000226	327.41931	39.22266	178.52547	6.06198	0.1371595	2.6262811	43	2	1997-2000	0.54	M-v	4	Williams	39185	1997 TZ ₁₀
1997 TV ₁₂	14.4	0.15	20000226	339.47566	268.42047	312.53328	0.86513	0.0329554	2.9389085	46	3	1997-2000	0.54	M-v	3	Williams	35702	1997 TV ₁₂
1997 TV ₁₇	13.6	0.15	20000226	218.22486	108.44830	205.79949	9.91894	0.0569360	3.1675049	42	4	1985-2000	0.76	M-v	1	Williams	39530	1997 TV ₁₇
1997 TY ₁₇	13.2	0.15	20000226	160.09684	329.50747	72.53525	2.82740	0.0653112	2.8819642	63	6	1980-2000	0.71	M-v	1	Williams	34297	1997 TY ₁₇
1997 TB ₁₈	12.9	0.15	20000226	253.30957	286.95626	0.56880	9.67803	0.0898933	2.9710801	83	3	1997-2000	0.59	M-v	3	Williams	39185	1997 TB ₁₈
1997 TR ₁₈	12.5	0.15	20000226	36.69325	293.89586	200.33323	9.46205	0.0429923	2.9872184	79	4	1992-2000	0.41	M-v	1	Williams	39530	1997 TR ₁₈
1997 TX ₁₈	14.6	0.15	20000226	265.98625	156.74791	123.73491	2.98012	0.0474583	2.8523749	35	3	1995-2000	0.58	M-v	3	Williams	39530	1997 TX ₁₈
1997 TD ₁₉	13.4	0.15	20000226	232.64206	140.96401	169.98729	2.21459	0.1054240	2.9417693	25	3	1997-2000	0.42	M-v	4	Williams	33956	1997 TD ₁₉
1997 TH ₁₉	14.5	0.15	20000226	273.98318	324.47281	1.40321	3.31433	0.3189621	2.3317242	57	4	1990-2000	0.61	M-v	1	Williams	34017	1997 TH ₁₉
1997 TJ ₁₉	13.3	0.15	20000226	174.30606	358.02852	46.34289	5.95695	0.0876621	2.7659107	53	3	1997-2000	0.58	M-v	3	Williams	34297	1997 TJ ₁₉
1997 TS ₂₂	14.0	0.15	20000226	100.87174	91.92751	351.68091	1.57807	0.0603900	2.9255221	71	3	1997-2000	0.60	M-v	4	Williams	39530	1997 TS ₂₂
1997 TY ₂₄	15.3	0.15	20000226	237.99665	171.56785	164.35886	2.27491	0.1996876	2.5901011	31	5	1995-2000	0.71	M-v	1	Williams	33754	1997 TY ₂₄
1997 TA ₂₅	13.7	0.15	20000226	182.21714	147.26600	190.01629	1.46104	0.1400513	3.0568913	52	2	1997-2000	0.54	M-v	4	Williams	39186	1997 TA ₂₅
1997 TE ₂₅	14.5	0.15	20000226	230.14733	157.27608	194.29463	3.89516	0.2918490	2.5817304	66	4	1996-2000	0.73	M-v	2	Williams	34017	1997 TE ₂₅
1997 TA ₂₆	13.9	0.15	20000226	66.96181	86.91303	24.04563	18.27448	0.1385910	3.2074397	67	3	1997-2000	0.66	M-v	3	Williams	39530	1997 TA ₂₆
1997 TF ₂₆	13.8	0.15	20000226	200.98032	29.23117	341.17882	4.60388	0.0709330	2.7333127	42	3	1997-2000	0.56	M-v	4	Williams	34297	1997 TF ₂₆
1997 TN ₂₆	13.4	0.15	20000226	240.57403	308.04101	28.34697	13.03157	0.1916382	2.6065610	60	4	1980-2000	0.58	M-v	1	Williams	35702	1997 TN ₂₆
1997 UH	14.0	0.15	20000226	346.61899	78.16419	157.26015	14.29110	0.1138093	2.6293194	43	3	1997-2000	0.67	M-v	3	Williams	39530	1997 UH
1997 UJ	11.9	0.15	20000226	51.78323	205.06814	224.13320	11.10921	0.0638159	5.1139475	46	3	1997-2000	0.63	M-v	3	Williams	38775	1997 UJ
1997 UC ₁	14.5	0.15	20000226	161.21920	201.96891	196.80612	7.78510	0.2222855	2.7953451	29	3	1997-2000	0.64	M-v	3	Williams	33957	1997 UC ₁
1997 UG ₁	13.1	0.15	20000226	166.42855	357.70680	33.56276	10.08121	0.0784209	2.9982478	74	3	1997-2000	0.58	M-v	3	Williams	34520	1997 UG ₁
1997 UU ₂	13.5	0.15	20000226	158.49014	94.21722	313.79522	1.59072	0.0204976	2.8966796	62	4	1996-2000	0.57	M-v	1	Williams	35702	1997 UU ₂
1997 UJ ₃	13.3	0.15	20000226	278.35227	359.40363	304.87626	2.84055	0.0830959	2.7307714	69	5	1990-2000	0.54	M-v	1	Williams	35702	1997 UJ ₃
1997 UT ₃	13.6	0.15	20000226	138.53173	204.44833	213.62278	0.65790	0.1353331	3.2053078	66	4	1994-2000	0.62	M-v	1	Williams	35702	1997 UT ₃
1997 UG ₅	14.0	0.15	20000226	131.00092	19.98154	30.55793	18.60738	0.1858806	3.2353777	56	3	1997-2000	0.50	M-v	2	Marsden	34298	1997 UG ₅
1997 UA ₇	13.2	0.15	20000226	176.06728	316.51008	53.17285	8.35938	0.3436538	3.0115099	49	5	1929-2000	0.80	M-v	2	Williams	33958	1997 UA ₇
1997 UB ₇	12.5	0.15	20000226	208.09441	306.74307	48.53939	16.47907	0.2845226	2.7774437	59	4	1996-2000	0.54	M-v	1	Williams	35702	1997 UB ₇
1997 UK ₈	13.5	0.15	20000226	120.94055	354.55185	71.54462	2.29538	0.1812055	3.2431819	44	3	1997-2000	0.76	M-v	4	Williams	35702	1997 UK ₈
1997 UV ₈	13.6	0.15	20000226	196.79598	161.01114	209.52971	12.34454	0.1318265	2.8693129	50	4	1987-2000	0.74	M-v	1	Williams	33959	1997 UV ₈
1997 UX ₈	13.2	0.15	20000226	224.66227	222.58915	63.90022	6.05214	0.1211073	3.1920048	44	3	1997-2000	0.60	M-v	3	Williams	39186	1997 UX ₈
1997 UN ₉	14.6	0.15	20000226	256.08898	349.10051	333.75836	1.45976	0.1382385	2.6298157	52	3	1997-2000	0.64	M-v	3	Williams	35702	1997 UN ₉
1997 UR ₉	14.1	0.15	20000226	226.07153	16.88226	333.07533	1.57540	0.1441220	2.7425776	32	3	1997-2000	0.66	M-v	4	Williams	35702	1997 UR ₉
1997 UN ₁₀	13.8	0.15	20000226	95.56125	239.48360	229.59009	8.83710	0.0456043	3.0352083	38	3	1997-2000	0.73	M-v	3	Williams	33959	1997 UN ₁₀
1997 US ₁₀	13.4	0.15	20000226	105.69804	198.22692	227.67061	10.65691	0.0554792	2.8536302	49	3	1997-2000	0.60	M-v	3	Williams	39530	1997 US ₁₀
1997 UY ₁₀	13.9	0.15	20000226	131.26812	255.43982	189.34211	1.51999	0.0725847	2.9782301	69	6	1992-2000	0.52	M-v	1	Marsden	34298	1997 UY ₁₀
1997 UB ₁₁	12.2	0.15	20000226	116.51692	27.69397	0.60190	21.38245	0.0409360	3.2154332	69	3	1997-2000	0.62	M-v	2	Williams	39530	1997 UB ₁₁
1997 UC ₁₁	13.6	0.15	20000226	297.53466	264.16645	7.54937	23.20233	0.2096260	2.3612952	68	3	1997-2000	0.49	M-v	3	Williams	39530	1997 UC ₁₁
1997 UV ₁₄	13.2	0.15	20000226	237.66289	138.31485	201.60231	8.10247	0.0278317	2.8819311	56	4	1992-2000	0.52	M-v	1	Williams	35072	1997 UV ₁₄
1997 UW ₁₄	13.4	0.15	20000226	145.52942	343.55001	50.30992	6.53434	0.1138852	3.1675296	67	3	1997-2000	0.63	M-v	3	Williams	39530	1997 UW ₁₄
1997 UY ₁₄	13.3	0.15	20000226	179.94240	319.03445	62.83166	2.94112	0.1175145	2.9521627	65	4	1977-2000	0.73	M-v	1	Williams	34018	1997 UY ₁₄
1997 UC ₁₅	13.5	0.15	20000226	172.12140	250.02739	124.17295	1.08119	0.2046711	3.1122541	105	6	1975-2000	0.76	M-v	1	Williams	34298	1997 UC ₁₅
1997 UW ₁₈	12.2	0.15	20000226	28.47415	91.79050	62.72122	9.24381	0.0122856	3.4017581	73	3	1997-2000	0.57	M-v	3	Williams	39530	1997 UW ₁₈
1997 UA ₂₁	14.3	0.15	20000226	261.91523	91.94700	210.01171	9.56919	0.0887637	2.5745953	36	4	1993-2000	0.59	M-v	1	Williams	39530	1997 UA ₂₁
1997 UC ₂₂	11.9	0.15	20000226	153.21141	51.45352	292.73957	17.63525	0.1536726	3.2077541	108	3	1997-2000	0.61	M-v	3	Williams	39530	1997 UC ₂₂
1997 UH ₂₂	14.2	0.15	20000226	206.29567	184.86891	171.33647	5.35886	0.1238621	2.8446641	38	3	1992-2000	0.64	M-v	3	Williams	31115	1997 UH ₂₂
1997 UT ₂₂	12.8	0.15	20000226	175.40310	18.02245	345.78546	6.16730	0.2500780	3.1717115	45	4	1991-2000	0.62	M-v	1	Williams	39530	1997 UT ₂₂

1997 VV	11.7	0.15	20000226	138.35692	163.38819	241.62565	12.60782	0.0673937	3.1738641	46	3	1997-2000	0.62	M-v	3	Williams	33558	1997 VV
1997 VC ₁	13.5	0.15	20000226	290.45362	215.95981	67.56737	3.12711	0.0273210	2.8826290	53	3	1997-2000	0.81	M-v	4	Williams	39530	1997 VC ₁
1997 VF ₁	13.2	0.15	20000226	160.31559	22.71082	4.00988	15.58769	0.2967215	2.8983958	51	3	1997-2000	0.55	M-v	2	Williams	34018	1997 VF ₁
1997 VO ₁	13.2	0.15	20000226	223.33139	307.54336	46.49976	14.27334	0.1777236	2.6783042	62	3	1997-2000	0.76	M-v	4	Williams	35702	1997 VO ₁
1997 VY ₁	12.9	0.15	20000226	196.62701	148.98045	225.05573	3.22375	0.0874837	3.0734925	98	4	1991-2000	0.57	M-v	1	Williams	34018	1997 VY ₁
1997 VM ₂	12.9	0.15	20000226	273.99412	74.70976	186.83545	10.20505	0.0160719	3.0840097	89	4	1981-2000	0.61	M-v	1	Williams	39530	1997 VM ₂
1997 VE ₃	13.2	0.15	20000226	234.29414	104.61135	231.99231	9.53665	0.1153690	2.9780659	36	3	1997-2000	0.69	M-v	4	Williams	35702	1997 VE ₃
1997 VD ₄	12.8	0.15	20000226	303.97335	60.13726	208.88555	1.36551	0.0294980	2.8365382	60	5	1971-2000	0.70	M-v	1	Williams	34298	1997 VD ₄
1997 VE ₄	14.2	0.15	20000226	245.18193	108.59768	235.14210	10.67467	0.3017039	2.5872896	44	4	1976-2000	0.65	M-v	2	Williams	35703	1997 VE ₄
1997 VC ₅	13.3	0.15	20000226	239.88255	265.60086	63.56751	10.63453	0.0864562	3.0804701	54	3	1997-2000	0.59	M-v	3	Williams	38775	1997 VC ₅
1997 VU ₆	13.7	0.15	20000226	243.26569	173.49527	158.18908	2.35576	0.0684259	2.8454802	40	5	1978-2000	0.75	M-v	1	Williams	35703	1997 VU ₆
1997 VA ₇	13.9	0.15	20000226	136.48923	204.78621	224.84787	16.73932	0.1073185	2.8020257	37	3	1997-2000	0.76	M-v	2	Williams	35703	1997 VA ₇
1997 VR ₇	12.4	0.15	20000226	265.10613	257.02303	46.31085	10.21928	0.0841510	3.0557298	53	3	1997-2000	0.65	M-v	3	Williams	35703	1997 VR ₇
1997 VX ₈	12.4	0.15	20000226	218.59043	303.60864	67.00971	13.94752	0.1865458	2.6388667	59	4	1991-2000	0.83	M-v	2	Williams	35432	1997 VX ₈
1997 WQ	13.0	0.15	20000226	283.54239	256.99436	54.66086	12.71680	0.1976366	2.6401867	43	3	1997-2000	0.73	M-v	4	Williams	34211	1997 WQ
1997 WC ₂	13.9	0.15	20000226	152.91545	10.97140	40.53639	4.21868	0.1156573	3.0420394	53	3	1997-2000	0.73	M-v	3	Williams	33962	1997 WC ₂
1997 WK ₂	12.6	0.15	20000226	260.53683	233.91391	75.20846	7.34668	0.1356279	3.1357932	57	3	1997-2000	0.64	M-v	4	Williams	39530	1997 WK ₂
1997 WZ ₇	13.0	0.15	20000226	251.09271	252.78377	70.01910	11.26653	0.1203086	2.9783015	40	3	1997-2000	0.73	M-v	4	Williams	34299	1997 WZ ₇
1997 WQ ₁₁	13.0	0.15	20000226	325.32906	170.27683	53.44518	1.49158	0.1183876	3.1695684	102	3	1997-2000	0.65	M-v	3	Williams	39530	1997 WQ ₁₁
1997 WV ₁₃	13.1	0.15	20000226	321.45491	222.93296	353.61570	4.69390	0.1018326	3.1867949	77	3	1997-2000	0.58	M-v	3	Williams	39530	1997 WV ₁₃
1997 WM ₁₆	14.1	0.15	20000226	269.30977	223.06563	116.75197	6.72388	0.1880394	2.2691955	71	4	1992-2000	0.50	M-v	2	Williams	34299	1997 WM ₁₆
1997 WZ ₁₆	14.2	0.15	20000226	346.04567	336.40359	247.47031	8.23472	0.1072338	2.7665072	36	5	1991-2000	0.57	M-v	1	Williams	33755	1997 WZ ₁₆
1997 WU ₂₂	15.2	0.15	20000226	299.68833	334.14592	260.90647	15.98232	0.4424321	1.4674753	232	3	1990-2000	0.50	M-v	3	Marsden	39530	1997 WU ₂₂
1997 WD ₃₀	12.8	0.15	20000226	177.78079	337.46307	48.91584	11.45569	0.1274701	2.9793336	43	4	1995-2000	0.68	M-v	1	Williams	35703	1997 WD ₃₀
1997 WQ ₃₁	13.6	0.15	20000226	196.53482	291.25949	80.09560	3.13633	0.1167747	2.9483669	35	4	1992-2000	0.79	M-v	2	Williams	35703	1997 WQ ₃₁
1997 WE ₃₆	13.1	0.15	20000226	169.31947	338.51182	50.01875	5.79554	0.1144514	3.2320665	32	4	1996-2000	0.67	M-v	1	Williams	34213	1997 WE ₃₆
1997 WN ₃₆	12.7	0.15	20000226	154.96021	343.71580	68.86089	23.37112	0.0324167	3.1467302	51	3	1997-2000	0.60	M-v	3	Williams	34588	1997 WN ₃₆
1997 WB ₃₇	11.6	0.15	20000226	332.72733	144.30000	86.67096	11.86831	0.0981614	3.2174373	117	3	1997-2000	0.48	M-v	2	Williams	38775	1997 WB ₃₇
1997 WN ₃₈	13.7	0.15	20000226	176.00529	307.78692	69.45452	2.32208	0.1537502	3.2291998	49	5	1991-2000	0.73	M-v	1	Williams	35703	1997 WN ₃₈
1997 WP ₃₈	13.8	0.15	20000226	180.74356	84.22510	297.74284	0.82107	0.1810479	3.0779866	35	3	1997-2000	0.72	M-v	4	Williams	35703	1997 WP ₃₈
1997 WZ ₄₂	13.6	0.15	20000226	188.91676	267.16353	99.19290	2.06775	0.1678297	3.2113097	43	3	1997-2000	0.68	M-v	4	Williams	35703	1997 WZ ₄₂
1997 WC ₄₅	13.3	0.15	20000226	229.05553	106.65312	234.03337	9.32401	0.1136625	2.9748179	40	3	1997-2000	0.76	M-v	4	Williams	35703	1997 WC ₄₅
1997 WE ₄₇	13.5	0.15	20000226	148.28967	338.62231	87.22993	11.78300	0.0676785	3.0668068	27	3	1997-2000	0.68	M-v	3	Williams	33965	1997 WE ₄₇
1997 XU ₁	13.0	0.15	20000226	209.66805	270.84903	96.19221	11.66014	0.1393902	2.9644686	29	3	1997-2000	0.62	M-v	4	Williams	34588	1997 XU ₁
1997 XY ₆	14.3	0.15	20000226	269.82117	186.17633	133.19478	0.80309	0.1488387	2.6015765	47	3	1997-2000	0.61	M-v	4	Williams	35703	1997 XY ₆
1997 XC ₁₀	12.7	0.15	20000226	261.56839	86.56453	233.80371	9.22864	0.1089907	2.9873132	44	4	1986-2000	0.68	M-v	1	Williams	35703	1997 XC ₁₀
1997 XL ₁₀	13.0	0.15	20000226	181.10962	330.94049	71.99729	11.46736	0.1074080	2.9797421	68	4	1979-2000	0.92	M-v	2	Williams	39530	1997 XL ₁₀
1997 XY ₁₀	13.1	0.15	20000226	198.74099	301.21843	58.35177	5.85690	0.1627015	3.1640904	58	5	1985-2000	0.72	M-v	1	Williams	35703	1997 XY ₁₀
1997 YH ₁	12.9	0.15	20000226	139.78901	18.81153	44.07635	11.04806	0.0484413	3.0762993	46	3	1997-2000	0.63	M-v	3	Williams	34019	1997 YH ₁
1997 YM ₃	16.9	0.15	20000226	151.50907	73.59970	303.55804	4.01543	0.6734573	3.2413117	61	1	106 days	0.54	M-v	4	Williams	31424	1997 YM ₃
1997 YO ₁₄	13.4	0.15	20000226	226.22144	30.81356	311.32031	4.26111	0.2320324	2.6131525	65	3	1997-2000	0.57	M-v	3	Williams	39530	1997 YO ₁₄
1998 AN ₈	13.7	0.15	20000226	207.85015	324.63239	44.60771	15.55863	0.0959952	2.6793453	52	3	1997-2000	0.64	M-v	3	Williams	34300	1998 AN ₈
1998 BU ₄₈	7.1	0.15	20000226	41.61505	282.27664	132.75638	14.25367	0.3890537	33.4307330	24	2	1998-2000	0.23	M-v	4	Williams	39189	1998 BU ₄₈
1998 CE ₂	15.5	0.15	20000226	121.53397	323.67494	293.99691	4.74852	0.2474813	2.2539045	49	2	1998-1999	0.56	M-v	4	Williams	38046	1998 CE ₂
1998 DO ₇	16.2	0.15	20000226	88.92059	263.19919	43.31548	1.95358	0.2333075	2.1843846	62	3	1992-1999	0.40	M-v	3	Williams	37675	1998 DO ₇
1998 DT ₇	14.5	0.15	20000226	137.75442	296.58814	301.22269	3.83955	0.1502418	2.2839299	58	3	1992-1999	0.66	M-v	2	Williams	38046	1998 DT ₇
1998 DS ₉	12.8	0.15	20000226	110.25818	144.17528	158.72022	24.31683	0.1941327	2.3636539	81	2	1998-2000	0.50	M-v	3	Williams	38463	1998 DS ₉
1998 DQ ₁₀	14.4	0.15	20000226	95.59494	139.70832	163.56650	6.29070	0.1699279	2.3097365	80	2	1998-2000	0.56	M-v	3	Williams	37675	1998 DQ ₁₀
1998 DC ₁₄	16.0	0.15	20000226	193.64336	45.00385	174.91832	2.91217	0.1080821	2.2212127	43	2	1998-1999	0.61	M-v	4	Williams	37676	1998 DC ₁₄
1998 DQ ₂₃	16.1	0.15	20000226	343.00806	95.81841	10.19263	21.23440	0.0767364	1.9227869	37	2	1998-2000	0.60	M-v	4	Williams	38046	1998 DQ ₂₃
1998 DQ ₂₇	15.6	0.15	20000226	96.56635	292.42596	15.97293	4.88791	0.1799500	2.2177284	85	2	1998-1999	0.65	M-v	4	Williams	38775	1998 DQ ₂₇
1998 DG ₃₅	13.3	0.15	20000226	7.48201	301.79942	9.06113	10.12844	0.1013639	2.9626951	34	2	1995-1998	0.83	M-v	4	Williams	38463	1998 DG ₃₅
1998 DR ₃₅	14.4	0.15	20000226	126.28865	98.36489	145.80157	9.95369	0.2301963	2.4041724	49	2	1998-1999	0.60	M-v	4	Williams	38463	1998 DR ₃₅

1998 EJ ₂	14.9	0.15	20000226	51.29828	136.18735	188.72883	12.02944	0.1860663	2.6889347	54	2	1998–1999	0.63	M-v	3	Williams	36893	1998 EJ ₂
1998 EF ₆	14.6	0.15	20000226	147.28130	279.31390	322.65987	20.81195	0.2489443	2.3008538	57	4	1977–1999	0.63	M-v	2	Williams	36527	1998 EF ₆
1998 EQ ₆	15.5	0.15	20000226	91.49249	331.66703	320.16396	1.82401	0.2034442	2.3809920	50	2	1998–1999	0.64	M-v	4	Williams	38046	1998 EQ ₆
1998 EW ₆	15.7	0.15	20000226	295.35762	141.63695	12.65893	20.89731	0.0867181	1.9367196	49	2	1998–2000	0.63	M-v	4	Williams	38046	1998 EW ₆
1998 EA ₉	14.4	0.15	20000226	115.37656	158.37129	111.64933	9.03125	0.2357654	2.5686065	87	2	1998–1999	0.57	M-v	3	Williams	38046	1998 EA ₉
1998 EZ ₁₀	14.1	0.15	20000226	71.35269	287.73790	19.48590	7.16084	0.1508364	2.3440579	46	2	1998–1999	0.56	M-v	3	Williams	38046	1998 EZ ₁₀
1998 EE ₁₂	14.2	0.15	20000226	106.20456	196.14144	84.70667	6.01387	0.1442491	2.3112554	68	2	1998–1999	0.62	M-v	3	Williams	37275	1998 EE ₁₂
1998 EU ₁₂	14.8	0.15	20000226	123.50702	253.37279	18.40427	6.26392	0.1728286	2.2937388	70	2	1998–1999	0.56	M-v	4	Williams	38776	1998 EU ₁₂
1998 EW ₁₂	15.1	0.15	20000226	111.37680	290.55623	3.58604	5.57632	0.1744984	2.2158116	101	2	1998–2000	0.56	M-v	4	Williams	38776	1998 EW ₁₂
1998 ER ₁₄	14.3	0.15	20000226	102.44822	217.28303	93.56017	4.69914	0.1815633	2.1553577	73	2	1998–2000	0.54	M-v	4	Williams	38776	1998 ER ₁₄
1998 FF ₂	18.9	0.15	20000226	298.86944	264.77709	4.88555	10.98634	0.2924755	1.5619082	128	2	1998–2000	0.59	M-v	3	Williams	38464	1998 FF ₂
1998 FK ₂	14.7	0.15	20000226	75.43085	177.09072	182.46076	22.18194	0.0824103	1.9312019	79	3	1990–2000	0.66	M-v	3	Williams	38046	1998 FK ₂
1998 FG ₄	14.9	0.15	20000226	81.71198	229.68532	115.18657	8.09692	0.1838945	2.3461202	48	2	1998–2000	0.76	M-v	4	Williams	37676	1998 FG ₄
1998 FB ₅	15.6	0.15	20000226	322.20542	275.79487	196.05935	22.37391	0.0939760	1.9568911	98	2	1998–2000	0.61	M-v	3	Williams	38046	1998 FB ₅
1998 FJ ₅	15.4	0.15	20000226	323.56908	305.06902	181.14118	23.63063	0.0317300	1.9172155	50	2	1998–2000	0.59	M-v	3	Williams	37677	1998 FJ ₅
1998 FK ₅	15.0	0.15	20000226	147.74980	322.97892	22.03714	24.13636	0.1270479	1.7749644	56	2	1998–2000	0.55	M-v	3	Williams	39189	1998 FK ₅
1998 FM ₈	15.1	0.15	20000226	49.81535	318.33509	28.01778	6.10239	0.2100374	2.2766747	78	2	1998–1999	0.50	M-v	3	Williams	38046	1998 FM ₈
1998 FP ₁₀	15.5	0.15	20000226	95.06197	274.76161	357.54442	12.62981	0.2116722	2.6838145	58	2	1998–1999	0.73	M-v	4	Williams	38776	1998 FP ₁₀
1998 FA ₁₁	15.1	0.15	20000226	88.50097	206.88244	145.40598	5.50352	0.1910296	2.2470870	56	3	1997–2000	0.55	M-v	2	Williams	38776	1998 FA ₁₁
1998 FU ₁₁	15.5	0.15	20000226	172.97893	56.65279	165.86319	1.79916	0.0839087	2.2134592	85	2	1998–1999	0.61	M-v	4	Williams	37275	1998 FU ₁₁
1998 FB ₁₂	14.2	0.15	20000226	76.62601	357.08622	334.23928	1.53621	0.1796146	2.1490500	113	2	1998–2000	0.47	M-v	3	Williams	38047	1998 FB ₁₂
1998 FD ₁₅	14.0	0.15	20000226	156.90769	24.62893	215.48778	2.30660	0.1657026	2.3081080	115	5	1977–1999	0.62	M-v	3	Williams	38776	1998 FD ₁₅
1998 FX ₁₅	17.2	0.15	20000226	359.21662	75.31902	6.48492	23.83819	0.1277525	1.8588109	34	2	1998–1999	0.60	M-v	4	Williams	38464	1998 FX ₁₅
1998 FW ₂₀	14.8	0.15	20000226	135.31900	155.98917	95.63192	2.51769	0.1639341	2.3035336	61	2	1998–1999	0.64	M-v	4	Williams	37276	1998 FW ₂₀
1998 FV ₂₈	14.6	0.15	20000226	220.70594	58.21331	62.00835	1.88089	0.1434729	2.4673007	31	2	1989–1998	0.89	M-v	7	Williams	38464	1998 FV ₂₈
1998 FD ₃₀	14.5	0.15	20000226	123.78884	71.93948	215.80668	4.01078	0.1734648	2.1774970	63	2	1998–2000	0.58	M-v	4	Williams	38776	1998 FD ₃₀
1998 FG ₃₀	14.9	0.15	20000226	82.45113	332.85093	331.34560	4.37616	0.2369649	2.3861749	69	2	1998–1999	0.66	M-v	4	Williams	38047	1998 FG ₃₀
1998 FY ₃₅	14.5	0.15	20000226	129.01283	269.59977	13.32813	5.80156	0.1805613	2.2003439	128	3	1989–2000	0.53	M-v	1	Williams	38047	1998 FY ₃₅
1998 FN ₄₁	15.1	0.15	20000226	102.23455	294.07479	357.46406	2.47781	0.2184536	2.3831852	85	2	1998–1999	0.65	M-v	4	Williams	38776	1998 FN ₄₁
1998 FY ₄₁	15.2	0.15	20000226	61.44163	353.11048	339.58283	5.25842	0.1890098	2.2730693	111	3	1992–2000	0.57	M-v	2	Williams	39530	1998 FY ₄₁
1998 FC ₄₂	13.5	0.15	20000226	55.28782	96.11232	186.11243	21.20456	0.3207695	3.2116503	67	2	1998–1999	0.60	M-v	3	Williams	36894	1998 FC ₄₂
1998 FZ ₄₆	15.7	0.15	20000226	140.82015	280.96811	352.68289	3.96253	0.1264768	2.1673681	93	2	1998–1999	0.63	M-v	4	Williams	38776	1998 FZ ₄₆
1998 FR ₄₈	15.3	0.15	20000226	53.48052	95.59820	256.24676	2.14746	0.1778294	2.1701047	93	2	1998–1999	0.61	M-v	3	Williams	38047	1998 FR ₄₈
1998 FE ₄₉	14.8	0.15	20000226	101.21022	100.42678	190.73352	7.74247	0.1977458	2.3975891	87	2	1998–1999	0.59	M-v	4	Williams	38047	1998 FE ₄₉
1998 FM ₄₉	14.3	0.15	20000226	79.55476	109.83444	186.29194	12.51783	0.1947256	2.5535691	82	2	1998–1999	0.54	M-v	3	Williams	37276	1998 FM ₄₉
1998 FL ₅₀	14.9	0.15	20000226	117.05635	294.13550	12.11525	6.51922	0.2311549	2.1723615	51	2	1998–1999	0.59	M-v	4	Williams	37677	1998 FL ₅₀
1998 FW ₅₀	15.3	0.15	20000226	138.15378	250.58167	12.23337	5.99772	0.1500858	2.2822795	54	2	1998–1999	0.64	M-v	4	Williams	37677	1998 FW ₅₀
1998 FW ₅₁	15.8	0.15	20000226	130.24168	251.59234	24.38960	5.62923	0.1520034	2.2483994	34	2	1998–1999	0.80	M-v	4	Williams	37677	1998 FW ₅₁
1998 FZ ₅₅	14.2	0.15	20000226	111.56281	245.37710	51.88410	4.30911	0.1587839	2.2382465	57	2	1998–1999	0.50	M-v	4	Williams	38047	1998 FZ ₅₅
1998 FM ₅₇	15.1	0.15	20000226	117.89612	298.29310	350.33421	3.60704	0.2006862	2.3144466	87	2	1998–1999	0.52	M-v	4	Williams	38776	1998 FM ₅₇
1998 FS ₅₇	14.9	0.15	20000226	75.84711	322.66647	350.56020	8.49304	0.3147320	2.5857870	49	2	1998–1999	0.67	M-v	4	Williams	38047	1998 FS ₅₇
1998 FC ₅₈	15.1	0.15	20000226	94.88409	303.27850	350.82648	2.11942	0.1744397	2.4384775	90	4	1994–1999	0.64	M-v	2	Williams	37276	1998 FC ₅₈
1998 FL ₆₀	15.1	0.15	20000226	100.97582	130.83357	173.87440	6.63279	0.2709648	2.3936366	43	3	1995–1999	0.74	M-v	3	Williams	38776	1998 FL ₆₀
1998 FG ₆₁	15.3	0.15	20000226	63.35410	76.96392	270.21718	1.30668	0.1186497	2.1732150	87	2	1998–1999	0.64	M-v	3	Williams	38048	1998 FG ₆₁
1998 FR ₆₂	15.2	0.15	20000226	110.07832	54.85860	231.44651	1.73712	0.1549330	2.3904545	75	3	1996–1999	0.58	M-v	2	Williams	37276	1998 FR ₆₂
1998 FZ ₆₃	14.3	0.15	20000226	80.29781	276.69505	37.73719	6.78351	0.1235770	2.3412315	78	3	1992–1999	0.62	M-v	2	Williams	38048	1998 FZ ₆₃
1998 FP ₆₄	14.0	0.15	20000226	65.21510	140.75401	183.16519	13.33152	0.3139474	2.5732120	67	2	1998–2000	0.61	M-v	3	Williams	37678	1998 FP ₆₄
1998 FZ ₆₄	14.3	0.15	20000226	145.88668	254.84249	5.59517	7.02657	0.1150012	2.2624166	96	3	1994–1999	0.55	M-v	3	Williams	37276	1998 FZ ₆₄
1998 FK ₆₅	14.9	0.15	20000226	138.94094	64.30319	216.33074	4.84092	0.1780099	2.2294512	121	2	1998–2000	0.54	M-v	3	Williams	38776	1998 FK ₆₅
1998 FV ₆₅	15.3	0.15	20000226	142.36515	58.65632	204.98257	5.91720	0.1366398	2.2876645	64	2	1998–1999	0.62	M-v	4	Williams	37679	1998 FV ₆₅
1998 FK ₆₇	14.5	0.15	20000226	87.85468	168.68816	148.84972	5.99185	0.1668269	2.2984747	61	2	1998–2000	0.61	M-v	4	Williams	38048	1998 FK ₆₇
1998 FA ₆₉	14.5	0.15	20000226	126.98095	301.49854	355.06662	2.94325	0.1848516	2.2220195	116	2	1998–1999	0.48	M-v	4	Williams	38048	1998 FA ₆₉
1998 FA ₇₀	15.3	0.15	20000226	96.32927	255.03244	63.00834	4.07998	0.2691366	2.3463532	87	2	1998–1999	0.62	M-v	4	Williams	38048	1998 FA ₇₀

1998 FN ₇₀	14.7	0.15	20000226	68.91819	292.72751	30.94264	6.52001	0.1520520	2.4148606	111	3	1984–1999	0.67	M-v	2	Williams	38048	1998 FN ₇₀
1998 FC ₇₁	15.5	0.15	20000226	154.54183	58.20902	199.74301	2.44892	0.1143759	2.2373295	81	2	1998–1999	0.68	M-v	4	Williams	38048	1998 FC ₇₁
1998 FG ₇₁	15.2	0.15	20000226	188.11887	219.40888	354.52322	6.15500	0.1280440	2.2634114	85	3	1992–1999	0.62	M-v	3	Williams	37276	1998 FG ₇₁
1998 FK ₇₁	15.6	0.15	20000226	157.54421	356.30502	246.53850	1.37229	0.1164238	2.3218689	40	3	1994–1999	0.79	M-v	4	Williams	36895	1998 FK ₇₁
1998 FZ ₇₁	15.0	0.15	20000226	113.68426	316.05917	323.99438	2.01203	0.1759109	2.3900097	76	2	1998–1999	0.61	M-v	4	Williams	38048	1998 FZ ₇₁
1998 FR ₇₂	15.0	0.15	20000226	108.30076	286.27874	23.55953	2.76526	0.2216058	2.2948482	76	2	1998–1999	0.68	M-v	4	Williams	38048	1998 FR ₇₂
1998 FP ₇₅	15.1	0.15	20000226	76.05707	267.42363	45.77960	3.67357	0.1188036	2.4641135	56	3	1976–1999	0.68	M-v	3	Williams	36361	1998 FP ₇₅
1998 FF ₇₇	15.5	0.15	20000226	116.19313	169.96563	124.18277	5.94268	0.1380030	2.2655958	39	2	1998–1999	0.68	M-v	4	Williams	36895	1998 FF ₇₇
1998 FM ₇₈	15.0	0.15	20000226	108.04320	246.91965	71.05244	4.34864	0.1568464	2.1816636	98	2	1998–1999	0.58	M-v	4	Williams	38048	1998 FM ₇₈
1998 FV ₇₈	14.3	0.15	20000226	131.75871	209.38005	80.34727	5.22240	0.1639074	2.2355658	78	2	1998–1999	0.45	M-v	3	Williams	38777	1998 FV ₇₈
1998 FT ₇₉	14.7	0.15	20000226	89.73331	117.33678	178.87896	12.80101	0.1428958	2.6084673	61	2	1998–1999	0.68	M-v	3	Williams	38048	1998 FT ₇₉
1998 FV ₉₀	14.7	0.15	20000226	77.84270	217.16599	96.35963	5.06952	0.2530674	2.3298734	48	3	1995–1999	0.75	M-v	3	Williams	38777	1998 FV ₉₀
1998 FZ ₉₉	14.1	0.15	20000226	125.76881	291.86262	321.95540	7.83894	0.0657741	2.3734457	92	2	1998–1999	0.56	M-v	3	Williams	37277	1998 FZ ₉₉
1998 FK ₁₀₁	14.6	0.15	20000226	116.57968	30.55669	215.33158	9.85841	0.1336626	2.5949369	40	2	1998–1999	0.66	M-v	4	Williams	36363	1998 FK ₁₀₁
1998 FO ₁₀₃	14.6	0.15	20000226	106.70249	335.27085	320.56765	5.09585	0.1759868	2.3052960	72	2	1998–1999	0.62	M-v	4	Williams	38777	1998 FO ₁₀₃
1998 FH ₁₀₄	14.8	0.15	20000226	66.87331	34.10158	279.96290	6.45833	0.0996820	2.4137957	55	2	1998–1999	0.64	M-v	3	Williams	36895	1998 FH ₁₀₄
1998 FB ₁₀₆	15.2	0.15	20000226	74.23616	86.30715	248.42973	5.48916	0.1724409	2.2257571	69	2	1998–2000	0.60	M-v	4	Williams	37679	1998 FB ₁₀₆
1998 FK ₁₀₆	14.6	0.15	20000226	125.15234	45.62074	226.31111	6.91897	0.1269033	2.3338845	130	3	1991–1999	0.57	M-v	2	Williams	37277	1998 FK ₁₀₆
1998 FN ₁₀₉	14.5	0.15	20000226	165.54313	319.96084	282.75809	4.47741	0.0363075	2.1782023	67	2	1998–1999	0.50	M-v	3	Williams	38048	1998 FN ₁₀₉
1998 FT ₁₀₉	13.9	0.15	20000226	162.10216	261.70369	332.23051	7.26288	0.0785358	2.2900964	61	4	1992–1999	0.60	M-v	2	Williams	37277	1998 FT ₁₀₉
1998 FT ₁₁₀	14.7	0.15	20000226	55.13168	87.06719	231.33741	10.50736	0.2021184	2.6335135	55	2	1998–1999	0.66	M-v	3	Williams	38048	1998 FT ₁₁₀
1998 FP ₁₁₃	14.2	0.15	20000226	86.02895	340.26190	324.46816	6.99717	0.1374169	2.4311266	73	2	1998–2000	0.54	M-v	3	Williams	38048	1998 FP ₁₁₃
1998 FR ₁₁₃	14.9	0.15	20000226	130.51469	18.73565	248.53807	6.19584	0.1104481	2.3419654	64	3	1978–1999	0.69	M-v	2	Williams	37277	1998 FR ₁₁₃
1998 FS ₁₁₃	14.6	0.15	20000226	108.09198	55.24965	253.68375	5.72873	0.2050129	2.2675651	82	2	1998–2000	0.54	M-v	4	Williams	38048	1998 FS ₁₁₃
1998 FJ ₁₁₄	14.7	0.15	20000226	120.77803	22.45422	260.51613	5.82027	0.1037307	2.3143850	65	2	1998–1999	0.56	M-v	4	Williams	36896	1998 FJ ₁₁₄
1998 FC ₁₁₆	14.1	0.15	20000226	46.11848	151.91675	213.99441	24.67323	0.2178188	2.2797738	74	2	1998–2000	0.59	M-v	3	Williams	37679	1998 FC ₁₁₆
1998 FD ₁₁₇	13.9	0.15	20000226	10.12768	160.25517	216.81784	11.39341	0.2480565	2.3299807	58	3	1992–1999	0.67	M-v	2	Williams	36896	1998 FD ₁₁₇
1998 FB ₁₁₈	14.9	0.15	20000226	117.06895	306.47781	350.56729	6.19914	0.1240361	2.2867629	61	2	1998–2000	0.57	M-v	4	Williams	38777	1998 FB ₁₁₈
1998 FW ₁₁₈	14.7	0.15	20000226	87.23838	80.75911	247.36689	4.56913	0.1554460	2.2569817	88	3	1982–2000	0.69	M-v	2	Williams	38048	1998 FW ₁₁₈
1998 FU ₁₂₀	15.2	0.15	20000226	87.64631	93.35072	236.16769	1.11970	0.1751485	2.1265132	99	3	1996–2000	0.69	M-v	3	Williams	38048	1998 FU ₁₂₀
1998 FT ₁₂₁	14.8	0.15	20000226	145.76340	76.23041	185.45143	5.02399	0.1480252	2.2632953	88	2	1998–1999	0.64	M-v	4	Williams	38049	1998 FT ₁₂₁
1998 FQ ₁₂₂	14.5	0.15	20000226	76.84124	282.71028	24.10398	10.64035	0.2676933	2.6290480	99	2	1998–1999	0.57	M-v	3	Williams	38049	1998 FQ ₁₂₂
1998 FN ₁₂₆	14.6	0.15	20000226	136.15809	1.00257	292.71573	2.72763	0.1599841	2.1563910	137	3	1976–2000	0.61	M-v	2	Williams	38777	1998 FN ₁₂₆
1998 FQ ₁₃₃	15.1	0.15	20000226	50.46809	10.12103	327.42459	4.14917	0.1734595	2.2988763	83	2	1998–1999	0.79	M-v	3	Williams	37277	1998 FQ ₁₃₃
1998 FU ₁₃₃	14.7	0.15	20000226	82.49531	97.04343	183.42635	12.51082	0.1736329	2.6857268	42	2	1998–1999	0.66	M-v	4	Williams	36365	1998 FU ₁₃₃
1998 GK ₁	13.4	0.15	20000226	76.93227	331.92607	331.97497	8.27882	0.1805311	2.5734025	96	3	1970–2000	0.48	M-v	2	Williams	38049	1998 GK ₁
1998 GO ₁₀	14.4	0.15	20000226	103.70699	317.18188	325.55270	1.43330	0.1859665	2.5709652	88	3	1995–1999	0.54	M-v	2	Williams	37278	1998 GO ₁₀
1998 HX	13.6	0.15	20000226	91.84522	194.50513	113.31644	4.33256	0.1012866	2.3930303	96	2	1998–2000	0.57	M-v	3	Williams	38049	1998 HX
1998 HN ₁	16.3	0.15	20000226	306.45238	286.54710	208.43923	21.21473	0.0810563	1.9436147	77	2	1998–1999	0.63	M-v	4	Williams	38777	1998 HN ₁
1998 HU ₂	16.1	0.15	20000226	48.62513	249.36080	110.16984	5.00586	0.2466713	2.6070025	43	2	1998–1999	0.61	M-v	4	Williams	38049	1998 HU ₂
1998 HX ₂	15.1	0.15	20000226	356.34770	245.09500	202.08340	21.22879	0.1513789	1.9469347	112	2	1998–2000	0.54	M-v	3	Williams	38049	1998 HX ₂
1998 HO ₃	14.8	0.15	20000226	104.22141	84.61134	191.28053	14.79234	0.1301786	2.6071725	61	2	1998–1999	0.61	M-v	3	Williams	38777	1998 HO ₃
1998 HF ₄	15.3	0.15	20000226	36.90643	282.76586	76.09339	6.91856	0.1351114	2.4026966	36	2	1998–1999	0.64	M-v	4	Williams	38049	1998 HF ₄
1998 HH ₄	14.8	0.15	20000226	61.50637	275.96633	75.41516	7.56651	0.1295455	2.4186595	67	2	1998–2000	0.72	M-v	3	Williams	38049	1998 HH ₄
1998 HT ₄	14.4	0.15	20000226	141.73487	225.64951	47.93414	5.89757	0.0610211	2.2581191	118	2	1998–2000	0.63	M-v	3	Williams	38049	1998 HT ₄
1998 HO ₅	15.2	0.15	20000226	331.36438	277.77772	162.75885	5.19240	0.1220060	2.2649194	54	2	1998–1999	0.61	M-v	4	Williams	37278	1998 HO ₅
1998 HU ₅	14.4	0.15	20000226	54.50402	299.93891	65.52225	6.21161	0.1938519	2.2148676	96	2	1998–2000	0.50	M-v	3	Williams	38049	1998 HU ₅
1998 HU ₆	14.8	0.15	20000226	98.58452	244.20425	87.38749	6.47211	0.1937816	2.3960951	69	2	1998–2000	0.57	M-v	3	Williams	38049	1998 HU ₆
1998 HG ₇	14.4	0.15	20000226	131.19578	249.01299	48.13844	24.12571	0.2297781	2.2803045	55	2	1998–2000	0.47	M-v	3	Williams	38465	1998 HG ₇
1998 HL ₇	15.4	0.15	20000226	274.32276	115.75346	56.61745	23.02489	0.0572685	1.9774754	38	2	1998–1999	0.57	M-v	4	Williams	38049	1998 HL ₇
1998 HD ₈	15.2	0.15	20000226	219.40413	38.56389	162.09812	4.28882	0.0587641	2.2044392	79	2	1998–1999	0.69	M-v	4	Williams	38049	1998 HD ₈
1998 HT ₈	14.1	0.15	20000226	21.17787	322.19415	60.47297	7.72855	0.1198972	2.2690090	55	3	1989–1999	0.63	M-v	3	Williams	38049	1998 HT ₈
1998 HB ₁₁	14.1	0.15	20000226	92.80716	259.09345	41.23974	17.78553	0.2059602	2.5681776	96	2	1998–2000	0.58	M-v	3	Williams	38049	1998 HB ₁₁

1998 HX ₁₈	15.5	0.15	20000226	145.91855	249.59409	11.95818	7.15698	0.0908793	2.2491267	88	3	1996–1999	0.59	M-v	3	Williams	37278	1998 HX ₁₈
1998 HZ ₁₈	14.7	0.15	20000226	13.77630	76.41565	294.73815	1.35541	0.2139619	2.3635220	41	4	1981–1999	0.79	M-v	2	Williams	39191	1998 HZ ₁₈
1998 HE ₂₀	13.1	0.15	20000226	3.63869	194.84618	176.81746	2.21511	0.1066541	2.9069052	89	3	1992–1999	0.60	M-v	3	Williams	37278	1998 HE ₂₀
1998 HK ₂₀	15.3	0.15	20000226	117.12641	95.47529	197.79517	3.98259	0.1902618	2.2950030	67	3	1992–1999	0.63	M-v	2	Williams	38465	1998 HK ₂₀
1998 HN ₂₁	16.0	0.15	20000226	86.64521	121.38361	201.50403	4.84427	0.0537148	2.1826188	54	2	1998–1999	0.84	M-v	4	Williams	36896	1998 HN ₂₁
1998 HQ ₂₃	15.0	0.15	20000226	126.51043	61.26370	229.96917	22.26529	0.1108122	2.4091932	72	2	1998–2000	0.62	M-v	3	Williams	38049	1998 HQ ₂₃
1998 HW ₂₅	15.7	0.15	20000226	35.94927	322.93279	41.14602	6.42031	0.1365850	2.2266500	36	2	1998–1999	0.48	M-v	4	Williams	37148	1998 HW ₂₅
1998 HO ₂₇	13.2	0.15	20000226	60.17500	256.74660	98.38046	6.10270	0.0777137	2.3793910	105	3	1954–2000	0.49	M-v	2	Williams	39530	1998 HO ₂₇
1998 HQ ₂₇	14.2	0.15	20000226	82.33492	94.06027	234.01644	4.94222	0.2297608	2.2840034	131	3	1992–2000	0.51	M-v	2	Williams	38049	1998 HQ ₂₇
1998 HF ₃₀	15.1	0.15	20000226	80.38249	196.50858	125.72657	3.42164	0.2118387	2.3766354	72	3	1994–2000	0.60	M-v	2	Williams	38049	1998 HF ₃₀
1998 HO ₃₀	14.4	0.15	20000226	102.45673	254.81325	75.87504	3.39312	0.2064488	2.1387634	96	2	1998–2000	0.56	M-v	4	Williams	39530	1998 HO ₃₀
1998 HU ₃₁	15.6	0.15	20000226	349.11883	246.56429	222.02489	20.92986	0.0918883	1.9284971	84	2	1998–2000	0.59	M-v	3	Williams	38777	1998 HU ₃₁
1998 HD ₃₂	14.9	0.15	20000226	62.21665	125.09384	221.89227	4.12934	0.1905442	2.2787023	112	3	1997–1999	0.64	M-v	2	Williams	38777	1998 HD ₃₂
1998 HE ₃₂	14.8	0.15	20000226	131.84030	53.03185	238.81367	1.69064	0.1795064	2.2262782	87	2	1998–1999	0.56	M-v	4	Williams	38049	1998 HE ₃₂
1998 HN ₃₂	15.1	0.15	20000226	104.08180	104.13805	195.38208	6.19399	0.1257878	2.3245516	86	2	1998–1999	0.64	M-v	4	Williams	38049	1998 HN ₃₂
1998 HU ₃₂	15.1	0.15	20000226	116.15305	253.86866	40.17067	2.54894	0.1614177	2.3116504	94	2	1998–1999	0.61	M-v	4	Williams	38777	1998 HU ₃₂
1998 HJ ₃₃	15.4	0.15	20000226	160.68636	250.51383	329.29365	1.79037	0.1373739	2.4564601	57	3	1971–1999	0.65	M-v	4	Williams	36532	1998 HJ ₃₃
1998 HR ₃₄	14.6	0.15	20000226	78.71447	221.24719	106.70415	3.20013	0.2256949	2.3628795	85	2	1998–2000	0.67	M-v	4	Williams	38049	1998 HR ₃₄
1998 HQ ₃₅	15.1	0.15	20000226	102.54138	93.94245	185.09258	12.43289	0.1104834	2.5155052	35	2	1998–1999	0.74	M-v	4	Williams	36368	1998 HQ ₃₅
1998 HY ₃₅	14.6	0.15	20000226	128.01104	214.81073	66.65614	2.90539	0.1320630	2.2901156	80	2	1998–1999	0.56	M-v	4	Williams	37278	1998 HY ₃₅
1998 HC ₃₆	15.3	0.15	20000226	63.08952	241.73836	114.22207	2.30385	0.1273688	2.1630608	98	2	1998–1999	0.63	M-v	3	Williams	38049	1998 HC ₃₆
1998 HG ₃₇	13.6	0.15	20000226	53.13730	306.57292	16.49051	12.49263	0.2317268	2.7468880	78	2	1998–1999	0.64	M-v	3	Williams	38465	1998 HG ₃₇
1998 HY ₃₇	15.4	0.15	20000226	136.84047	25.56534	270.06502	2.75532	0.1623211	2.1694921	75	2	1998–1999	0.69	M-v	4	Williams	38049	1998 HY ₃₇
1998 HE ₃₈	14.3	0.15	20000226	126.45898	52.82694	234.80666	3.66214	0.1558213	2.3004986	120	2	1998–2000	0.52	M-v	3	Williams	38049	1998 HE ₃₈
1998 HO ₃₈	15.6	0.15	20000226	117.09141	76.75288	237.69329	1.89482	0.0968913	2.1285821	101	3	1993–2000	0.63	M-v	2	Williams	38049	1998 HO ₃₈
1998 HH ₄₃	15.4	0.15	20000226	149.62678	157.29735	118.56821	6.03890	0.2392614	2.3410811	57	4	1994–1999	0.75	M-v	2	Williams	39191	1998 HH ₄₃
1998 HO ₄₃	14.6	0.15	20000226	105.67232	117.93578	180.75060	6.59368	0.1242028	2.3424079	79	2	1998–1999	0.50	M-v	3	Williams	36808	1998 HO ₄₃
1998 HY ₄₃	15.3	0.15	20000226	119.86694	243.49795	53.63761	3.27357	0.1216440	2.2475161	73	2	1998–1999	0.71	M-v	4	Williams	38466	1998 HY ₄₃
1998 HV ₄₅	12.8	0.15	20000226	355.85640	163.93046	212.26413	15.66858	0.1653694	2.5793479	48	4	1987–1999	0.48	M-v	3	Williams	38466	1998 HV ₄₅
1998 HC ₄₆	15.2	0.15	20000226	258.63099	285.31255	195.01341	6.61059	0.0867755	2.3807863	44	2	1998–1999	0.85	M-v	4	Williams	38466	1998 HC ₄₆
1998 HN ₄₆	15.8	0.15	20000226	191.96563	119.06558	103.48101	2.09098	0.0985045	2.1931872	47	3	1960–1999	0.65	M-v	4	Williams	38467	1998 HN ₄₆
1998 HA ₄₈	14.8	0.15	20000226	61.88176	158.82295	164.46627	5.78344	0.1468952	2.5430349	55	2	1998–1999	0.66	M-v	3	Williams	36897	1998 HA ₄₈
1998 HG ₄₈	14.7	0.15	20000226	107.44522	244.67412	87.70264	6.36327	0.2472848	2.1633153	70	4	1954–2000	0.60	M-v	2	Williams	38467	1998 HG ₄₈
1998 HN ₄₉	14.9	0.15	20000226	169.87745	35.86827	215.77133	3.46199	0.1154324	2.3040928	116	2	1998–2000	0.51	M-v	3	Williams	38049	1998 HN ₄₉
1998 HK ₅₀	15.0	0.15	20000226	76.65592	126.55889	178.04758	12.55224	0.1547615	2.8120423	53	3	1993–1999	0.62	M-v	2	Williams	36369	1998 HK ₅₀
1998 HU ₅₀	15.3	0.15	20000226	141.90919	20.66496	251.29967	3.13190	0.1842350	2.3033520	66	2	1998–1999	0.71	M-v	4	Williams	38777	1998 HU ₅₀
1998 HW ₅₀	14.5	0.15	20000226	107.54099	329.26526	350.37629	4.04327	0.1940625	2.2464801	64	2	1998–1999	0.59	M-v	4	Williams	38777	1998 HW ₅₀
1998 HJ ₅₁	14.0	0.15	20000226	52.77455	251.84836	103.46891	6.59361	0.1445533	2.3846751	112	3	1997–2000	0.57	M-v	2	Williams	38050	1998 HJ ₅₁
1998 HR ₅₁	15.0	0.15	20000226	171.09896	167.32051	82.17582	2.89199	0.1217286	2.1668425	59	2	1998–1999	0.57	M-v	4	Williams	38050	1998 HR ₅₁
1998 HS ₅₁	14.1	0.15	20000226	134.02177	240.84959	47.02136	7.06074	0.1325461	2.2621121	93	2	1998–2000	0.64	M-v	3	Williams	38050	1998 HS ₅₁
1998 HT ₅₁	14.6	0.15	20000226	104.48404	250.56489	65.93217	3.87054	0.1490765	2.2903564	117	3	1996–2000	0.53	M-v	2	Williams	38050	1998 HT ₅₁
1998 HU ₅₁	14.2	0.15	20000226	111.67293	248.71708	59.30865	5.18642	0.2108848	2.3616383	93	2	1998–2000	0.52	M-v	3	Williams	38777	1998 HU ₅₁
1998 HH ₅₂	14.3	0.15	20000226	77.45237	327.21860	35.81088	7.11690	0.2383371	2.1549614	51	3	1983–2000	0.62	M-v	3	Williams	38777	1998 HH ₅₂
1998 HG ₅₃	14.5	0.15	20000226	113.30847	69.07913	229.56622	2.44023	0.2029736	2.3658396	109	2	1998–1999	0.52	M-v	3	Williams	38050	1998 HG ₅₃
1998 HR ₆₇	14.5	0.15	20000226	155.98401	249.91767	20.05056	7.30715	0.1459843	2.2122377	121	2	1998–2000	0.55	M-v	3	Williams	38050	1998 HR ₆₇
1998 HL ₇₉	15.5	0.15	20000226	298.46561	231.27902	243.39173	4.84393	0.0247573	2.2075761	61	2	1998–1999	0.49	M-v	4	Williams	38050	1998 HL ₇₉
1998 HN ₈₀	15.0	0.15	20000226	156.42515	252.57253	15.29664	2.03685	0.1491328	2.2375518	70	3	1991–2000	0.58	M-v	3	Williams	39191	1998 HN ₈₀
1998 HH ₈₆	16.4	0.15	20000226	160.23158	43.19087	216.89119	6.03426	0.0889553	2.2322910	31	2	1998–1999	0.68	M-v	4	Williams	38467	1998 HH ₈₆
1998 HE ₈₇	15.6	0.15	20000226	54.13663	104.21711	257.78173	3.94477	0.0563843	2.2427564	73	3	1996–1999	0.62	M-v	3	Williams	39192	1998 HE ₈₇
1998 HL ₉₁	14.3	0.15	20000226	101.92067	136.72317	177.30373	6.85551	0.1355850	2.3484995	79	2	1998–2000	0.47	M-v	3	Williams	37681	1998 HL ₉₁
1998 HZ ₉₂	15.3	0.15	20000226	103.20896	329.04171	343.19550	1.29680	0.0405452	2.2677262	76	2	1998–1999	0.69	M-v	4	Williams	37279	1998 HZ ₉₂
1998 HK ₉₄	14.9	0.15	20000226	63.00028	102.68325	247.62495	1.71516	0.1785077	2.3923373	96	2	1998–2000	0.56	M-v	3	Williams	38050	1998 HK ₉₄
1998 HR ₉₄	13.1	0.15	20000226	105.62706	59.84116	216.88860	12.24378	0.1499899	2.6814970	94	2	1998–1999	0.56	M-v	3	Williams	37279	1998 HR ₉₄

1998 HV ₉₅	15.1	0.15	20000226	73.06504	262.84305	85.86277	5.29948	0.1782631	2.3174480	88	3	1997-2000	0.62	M-v	2	Williams	38777	1998 HV ₉₅
1998 HR ₉₇	15.4	0.15	20000226	150.64314	310.63705	329.11526	1.81684	0.1254919	2.2191507	53	2	1998-1999	0.64	M-v	4	Williams	39192	1998 HR ₉₇
1998 HV ₉₇	14.3	0.15	20000226	65.41524	23.47066	316.70917	3.89280	0.2660714	2.6096284	94	3	1997-2000	0.63	M-v	2	Williams	38050	1998 HV ₉₇
1998 HA ₉₈	14.2	0.15	20000226	79.02697	298.37582	19.78418	11.65049	0.1988846	2.6421902	99	3	1995-2000	0.59	M-v	2	Williams	38777	1998 HA ₉₈
1998 HF ₉₈	15.5	0.15	20000226	135.54234	299.49790	347.21038	4.02666	0.1354861	2.3113874	47	2	1998-1999	0.72	M-v	4	Williams	37681	1998 HF ₉₈
1998 HJ ₉₈	15.1	0.15	20000226	162.43177	270.20040	357.43397	3.42743	0.0942780	2.1991630	76	2	1998-1999	0.64	M-v	4	Williams	38777	1998 HJ ₉₈
1998 HQ ₉₈	15.1	0.15	20000226	144.63827	215.85086	47.49780	3.51407	0.1992278	2.4280010	56	2	1998-1999	0.70	M-v	4	Williams	38467	1998 HQ ₉₈
1998 HC ₉₉	14.6	0.15	20000226	106.49010	264.22806	65.26798	4.46141	0.1831875	2.2469826	72	3	1996-2000	0.65	M-v	2	Williams	38777	1998 HC ₉₉
1998 HQ ₁₀₀	14.4	0.15	20000226	168.19000	173.50507	85.56650	2.60103	0.0421987	2.1827543	107	3	1973-2000	0.65	M-v	3	Williams	38777	1998 HQ ₁₀₀
1998 HY ₁₀₀	15.1	0.15	20000226	166.79174	203.87829	53.72795	3.20338	0.1178879	2.2447854	69	2	1998-1999	0.57	M-v	4	Williams	38777	1998 HY ₁₀₀
1998 HZ ₁₀₁	15.8	0.15	20000226	164.67668	23.90583	230.41487	5.89749	0.0867333	2.3099111	42	2	1998-1999	0.65	M-v	4	Williams	38050	1998 HZ ₁₀₁
1998 HF ₁₀₂	15.0	0.15	20000226	194.00041	330.31574	275.86523	1.69446	0.1203805	2.1474204	96	2	1998-1999	0.58	M-v	3	Williams	38777	1998 HF ₁₀₂
1998 HJ ₁₀₂	15.1	0.15	20000226	146.18666	243.00329	44.80596	6.48656	0.1605779	2.2778923	50	2	1998-1999	0.69	M-v	4	Williams	39192	1998 HJ ₁₀₂
1998 HO ₁₀₂	14.8	0.15	20000226	185.83106	23.05141	216.17468	4.19408	0.1303241	2.2510656	79	3	1994-1999	0.59	M-v	4	Williams	38050	1998 HO ₁₀₂
1998 HS ₁₀₂	14.2	0.15	20000226	58.51859	301.89564	18.23214	2.30954	0.2087366	3.0483647	73	2	1998-1999	0.51	M-v	3	Williams	38050	1998 HS ₁₀₂
1998 HC ₁₀₈	14.3	0.15	20000226	107.84011	220.87118	92.68158	7.28431	0.1011852	2.2143682	73	2	1998-2000	0.48	M-v	3	Williams	37682	1998 HC ₁₀₈
1998 HX ₁₁₀	14.7	0.15	20000226	46.90736	246.31475	121.91227	5.58383	0.1692424	2.2657459	70	2	1998-2000	0.65	M-v	3	Williams	37682	1998 HX ₁₁₀
1998 HN ₁₁₁	14.8	0.15	20000226	77.46846	214.44552	107.26133	7.42344	0.1606910	2.4746001	47	2	1998-1999	0.74	M-v	4	Williams	37682	1998 HN ₁₁₁
1998 HB ₁₁₄	14.3	0.15	20000226	88.55908	173.47347	149.39970	7.67117	0.1862251	2.4077254	85	3	1995-2000	0.64	M-v	2	Williams	37683	1998 HB ₁₁₄
1998 HA ₁₂₀	13.5	0.15	20000226	10.00817	217.37243	123.92955	12.18645	0.1170529	3.0728069	31	2	1998-1999	0.63	M-v	3	Williams	38050	1998 HA ₁₂₀
1998 HE ₁₂₃	14.3	0.15	20000226	116.58699	213.29551	80.75879	7.48790	0.1148515	2.4031457	63	2	1998-2000	0.55	M-v	3	Williams	38050	1998 HE ₁₂₃
1998 HH ₁₂₃	13.5	0.15	20000226	355.12752	207.19261	181.59790	11.81959	0.0852746	2.6023550	84	3	1995-1999	0.61	M-v	3	Williams	37279	1998 HH ₁₂₃
1998 HN ₁₂₃	14.6	0.15	20000226	110.59025	203.08203	109.40154	8.95707	0.1404673	2.3278331	71	2	1998-2000	0.62	M-v	3	Williams	37683	1998 HN ₁₂₃
1998 HD ₁₂₄	13.4	0.15	20000226	130.09520	209.46051	101.59000	9.31200	0.2809940	2.3075575	70	3	1997-2000	0.54	M-v	3	Williams	39531	1998 HD ₁₂₄
1998 HN ₁₂₈	14.9	0.15	20000226	105.74939	146.42985	137.09105	6.35392	0.0942567	2.3244405	38	2	1998-1999	0.58	M-v	4	Williams	37683	1998 HN ₁₂₈
1998 HQ ₁₃₄	15.1	0.15	20000226	182.47880	113.04967	115.68004	4.79896	0.1175637	2.1836393	57	2	1998-1999	0.66	M-v	3	Williams	37684	1998 HQ ₁₃₄
1998 HA ₁₃₈	14.6	0.15	20000226	55.50620	138.54810	169.03789	9.37448	0.1456466	2.7919201	38	2	1998-1999	0.79	M-v	4	Williams	36371	1998 HA ₁₃₈
1998 HN ₁₃₉	14.8	0.15	20000226	58.56973	245.28871	106.67981	6.12453	0.1900097	2.2755505	66	2	1998-2000	0.56	M-v	3	Williams	37684	1998 HN ₁₃₉
1998 HP ₁₃₉	14.9	0.15	20000226	199.45400	233.45694	340.40748	3.62951	0.0763787	2.1975382	93	2	1998-2000	0.62	M-v	3	Williams	38050	1998 HP ₁₃₉
1998 HK ₁₄₃	13.9	0.15	20000226	131.81404	124.10966	153.52436	7.49142	0.1063716	2.3354981	73	2	1998-2000	0.55	M-v	3	Williams	37684	1998 HK ₁₄₃
1998 HN ₁₄₃	13.5	0.15	20000226	57.48161	267.33354	46.98129	18.48324	0.3412550	3.1386957	65	2	1998-2000	0.64	M-v	3	Williams	39192	1998 HN ₁₄₃
1998 HY ₁₄₇	15.4	0.15	20000226	192.13027	205.30704	45.55121	1.58126	0.1237157	2.1446720	81	2	1998-1999	0.70	M-v	4	Williams	38777	1998 HY ₁₄₇
1998 HA ₁₄₈	14.3	0.15	20000226	309.15823	238.04888	239.77704	3.54356	0.0806324	2.1752242	108	3	1991-2000	0.58	M-v	2	Williams	38050	1998 HA ₁₄₈
1998 HE ₁₄₈	14.5	0.15	20000226	132.56224	55.00776	210.59902	2.71949	0.2060824	2.6111212	51	3	1995-1999	0.52	M-v	3	Williams	39192	1998 HE ₁₄₈
1998 HK ₁₄₈	15.0	0.15	20000226	170.17687	192.19327	62.77044	3.66222	0.1641927	2.3031001	69	3	1991-1999	0.64	M-v	3	Williams	38777	1998 HK ₁₄₈
1998 HS ₁₄₈	15.2	0.15	20000226	117.24305	282.89858	7.50647	0.81255	0.1457277	2.5455552	48	2	1998-1999	0.73	M-v	4	Williams	38778	1998 HS ₁₄₈
1998 HV ₁₄₈	14.2	0.15	20000226	53.63544	289.18000	39.99547	3.07778	0.1824745	2.9917577	77	3	1994-1999	0.69	M-v	3	Williams	37279	1998 HV ₁₄₈
1998 HW ₁₄₈	14.9	0.15	20000226	54.27330	4.59628	338.43266	0.58353	0.0894699	2.6401312	60	2	1998-1999	0.70	M-v	3	Williams	38050	1998 HW ₁₄₈
1998 HD ₁₄₉	14.2	0.15	20000226	112.63126	52.29793	230.36485	1.50598	0.0902283	2.6349499	63	2	1998-1999	0.61	M-v	3	Williams	38050	1998 HD ₁₄₉
1998 HT ₁₄₉	13.5	0.15	20000226	84.32345	264.54792	43.74002	9.43910	0.1508673	2.7774980	111	2	1998-2000	0.54	M-v	3	Williams	38050	1998 HT ₁₄₉
1998 HW ₁₅₀	14.4	0.15	20000226	70.27885	205.55562	162.60844	5.13602	0.2384012	2.2992620	65	3	1997-2000	0.69	M-v	2	Williams	39531	1998 HW ₁₅₀
1998 HK ₁₅₁	7.6	0.15	20000226	1.91669	180.84924	50.25257	5.95519	0.2232071	39.0984419	22	3	1998-2000	0.10	M-v	3	Marsden	39531	1998 HK ₁₅₁
1998 JE	14.4	0.15	20000226	66.26581	238.36491	99.90903	3.80087	0.0913490	2.3207327	66	2	1998-2000	0.63	M-v	3	Williams	38050	1998 JE
1998 JS	14.2	0.15	20000226	116.24971	44.63487	266.83545	4.85475	0.1604136	2.2691741	90	2	1998-2000	0.57	M-v	3	Williams	39531	1998 JS
1998 JX	15.2	0.15	20000226	161.48295	34.65602	225.82427	5.08305	0.1748200	2.2693683	75	2	1998-1999	0.62	M-v	4	Williams	38051	1998 JX
1998 JH ₁	14.3	0.15	20000226	121.08100	19.43548	258.53933	8.02502	0.0491108	2.4518495	69	2	1998-1999	0.50	M-v	3	Williams	36898	1998 JH ₁
1998 JJ ₁	15.3	0.15	20000226	30.80282	201.23595	229.27838	19.89566	0.0929301	1.9328679	81	2	1998-2000	0.42	M-v	2	Williams	38778	1998 JJ ₁
1998 JP ₁	15.2	0.15	20000226	123.52971	233.43390	63.77426	3.43300	0.1894691	2.3880984	67	3	1991-1999	0.60	M-v	3	Williams	38051	1998 JP ₁
1998 JT ₁	14.4	0.15	20000226	107.01934	207.28137	107.08949	3.35461	0.2070245	2.4191046	94	3	1991-1999	0.49	M-v	2	Williams	38051	1998 JT ₁
1998 JB ₂	14.1	0.15	20000226	112.47407	245.39115	61.15336	5.53926	0.1024086	2.3874062	104	2	1998-2000	0.55	M-v	3	Williams	38778	1998 JB ₂
1998 JF ₂	14.4	0.15	20000226	43.97043	288.61202	104.00494	4.72369	0.1299611	2.1985124	97	2	1998-2000	0.62	M-v	3	Williams	39531	1998 JF ₂
1998 JP ₂	14.5	0.15	20000226	126.97979	215.25222	93.20079	8.88088	0.1689145	2.2690376	88	2	1998-2000	0.57	M-v	3	Williams	37685	1998 JP ₂
1998 KB	15.3	0.15	20000226	85.81915	129.19403	194.78315	0.99324	0.1313622	2.5416275	73	2	1998-1999	0.53	M-v	3	Williams	38778	1998 KB

1998 KU	14.5	0.15	20000226	175.07887	154.76360	96.59766	8.05834	0.0819250	2.3048046	47	2	1998-2000	0.65	M-v	4	Williams	37686	1998 KU
1998 KZ	15.3	0.15	20000226	118.75719	306.28155	49.03677	22.94389	0.0666256	1.9460855	51	3	1996-2000	0.71	M-v	2	Williams	38778	1998 KZ
1998 KP ₁	14.5	0.15	20000226	94.74405	120.63891	191.64837	1.23084	0.1784846	2.5324113	101	2	1998-2000	0.54	M-v	3	Williams	38778	1998 KP ₁
1998 KR ₁	12.8	0.15	20000226	74.79886	270.87749	51.30543	13.25767	0.2025417	2.6967611	93	3	1968-2000	0.51	M-v	2	Williams	38778	1998 KR ₁
1998 KA ₄	15.1	0.15	20000226	150.86881	207.45598	80.69323	7.96701	0.1575805	2.2436545	74	2	1998-2000	0.57	M-v	3	Williams	38051	1998 KA ₄
1998 KB ₄	14.9	0.15	20000226	83.79036	178.31311	165.16068	2.77342	0.1744243	2.4008941	69	3	1997-1999	0.69	M-v	2	Williams	38778	1998 KB ₄
1998 KP ₄	15.1	0.15	20000226	176.60080	24.65651	209.88622	8.48822	0.1584273	2.3870579	41	2	1998-1999	0.52	M-v	4	Williams	37686	1998 KP ₄
1998 KQ ₄	14.1	0.15	20000226	152.51441	122.77682	166.15872	4.16289	0.1698881	2.2555443	69	2	1998-2000	0.45	M-v	3	Williams	37687	1998 KQ ₄
1998 KS ₄	14.0	0.15	20000226	43.73244	294.74290	79.24141	7.98579	0.1235385	2.4465601	101	3	1993-2000	0.68	M-v	2	Williams	38778	1998 KS ₄
1998 KU ₄	14.3	0.15	20000226	93.84229	272.40004	75.30355	7.73247	0.1510850	2.2900182	105	2	1998-2000	0.48	M-v	3	Williams	38778	1998 KU ₄
1998 KW ₄	15.6	0.15	20000226	195.88098	12.42893	213.20432	4.56713	0.1411836	2.2852429	51	3	1996-1999	0.56	M-v	4	Williams	38051	1998 KW ₄
1998 KC ₅	13.0	0.15	20000226	359.14873	243.16088	137.73808	2.74563	0.1273887	2.9331191	119	6	1974-1999	0.55	M-v	3	Williams	38051	1998 KC ₅
1998 KB ₇	14.8	0.15	20000226	215.11973	339.16114	211.40302	6.13165	0.0557359	2.4068437	70	2	1998-1999	0.67	M-v	4	Williams	36372	1998 KB ₇
1998 KC ₈	14.8	0.15	20000226	293.13656	218.12463	261.76861	5.58790	0.0723150	2.3155157	58	3	1978-1999	0.60	M-v	2	Williams	38051	1998 KC ₈
1998 KT ₈	14.3	0.15	20000226	105.04592	163.81460	117.66279	9.13649	0.1899753	2.8028956	62	3	1997-1999	0.51	M-v	3	Williams	38778	1998 KT ₈
1998 KB ₉	14.4	0.15	20000226	76.36605	206.16224	116.04623	3.67681	0.1212853	2.6044234	86	3	1997-2000	0.62	M-v	2	Williams	37687	1998 KB ₉
1998 KK ₉	15.0	0.15	20000226	137.28048	196.55388	100.37913	3.50606	0.1430469	2.3241314	109	3	1997-2000	0.60	M-v	3	Williams	38778	1998 KK ₉
1998 KN ₉	13.7	0.15	20000226	171.66232	31.87939	227.50792	16.16354	0.0709103	2.5692958	89	2	1998-1999	0.62	M-v	3	Williams	37280	1998 KN ₉
1998 KW ₉	13.0	0.15	20000226	49.16691	36.52373	286.29267	9.18723	0.2114169	3.1617408	82	2	1998-1999	0.48	M-v	3	Williams	37280	1998 KW ₉
1998 KD ₁₀	14.7	0.15	20000226	74.54799	272.62313	58.61118	8.48194	0.1368246	2.4711514	67	2	1998-1999	0.73	M-v	3	Williams	38051	1998 KD ₁₀
1998 KJ ₁₀	15.2	0.15	20000226	18.53752	248.96442	148.01400	5.97373	0.0432722	2.3127378	55	3	1996-1999	0.66	M-v	3	Williams	38778	1998 KJ ₁₀
1998 KX ₁₀	14.9	0.15	20000226	64.02001	200.29065	145.83412	9.51665	0.1941058	2.5622514	49	2	1998-2000	0.55	M-v	3	Williams	37687	1998 KX ₁₀
1998 KW ₂₅	15.2	0.15	20000226	73.99519	228.71802	122.92411	3.53979	0.1903101	2.3945851	79	3	1997-2000	0.60	M-v	2	Williams	37688	1998 KW ₂₅
1998 KN ₂₆	16.1	0.15	20000226	81.54129	268.80112	37.43310	12.97381	0.2047015	2.7102565	18	2	1998-1999	0.45	M-v	4	Williams	37153	1998 KN ₂₆
1998 KZ ₂₆	14.9	0.15	20000226	59.37622	304.53916	43.76295	5.56621	0.1336613	2.5591053	67	3	1995-2000	0.65	M-v	2	Williams	38051	1998 KZ ₂₆
1998 KH ₂₇	14.4	0.15	20000226	94.19580	190.99054	167.28403	3.44345	0.1567531	2.1541777	72	2	1998-2000	0.64	M-v	4	Williams	39531	1998 KH ₂₇
1998 KG ₂₈	14.8	0.15	20000226	275.17451	125.22559	16.74150	5.83511	0.0920546	2.2483606	65	3	1991-1999	0.58	M-v	3	Williams	39194	1998 KG ₂₈
1998 KO ₂₈	15.1	0.15	20000226	86.97228	219.15600	78.93229	4.96817	0.0695373	2.7129745	22	2	1998-1999	0.68	M-v	4	Williams	36373	1998 KO ₂₈
1998 KA ₂₉	14.7	0.15	20000226	3.02974	317.93159	102.12609	5.51397	0.1795224	2.2372190	67	2	1998-1999	0.60	M-v	3	Williams	39194	1998 KA ₂₉
1998 KH ₃₂	14.7	0.15	20000226	79.08246	101.26405	238.92045	1.97087	0.1942025	2.5354842	95	3	1995-1999	0.55	M-v	3	Williams	38051	1998 KH ₃₂
1998 KS ₃₂	13.7	0.15	20000226	15.21015	112.60484	246.62040	8.90832	0.1169531	2.9968702	55	2	1998-1999	0.56	M-v	3	Williams	39195	1998 KS ₃₂
1998 KU ₃₃	14.2	0.15	20000226	44.98835	260.48346	94.28613	1.81372	0.1774799	2.7462726	87	3	1997-2000	0.52	M-v	2	Williams	38051	1998 KU ₃₃
1998 KV ₃₃	14.7	0.15	20000226	103.27926	159.81929	99.97402	0.82582	0.1823066	3.1039694	31	2	1998-1999	0.49	M-v	4	Williams	36535	1998 KV ₃₃
1998 KZ ₃₃	14.5	0.15	20000226	66.87719	283.20316	67.04746	13.64956	0.2248415	2.6031755	83	3	1978-2000	0.66	M-v	2	Williams	38778	1998 KZ ₃₃
1998 KG ₃₅	15.0	0.15	20000226	83.32293	263.43733	76.14833	5.64151	0.2004963	2.5216820	97	2	1998-2000	0.65	M-v	4	Williams	38051	1998 KG ₃₅
1998 KQ ₃₅	15.0	0.15	20000226	119.20404	64.80938	241.57897	5.78713	0.1131176	2.3794083	80	3	1995-1999	0.62	M-v	3	Williams	38051	1998 KQ ₃₅
1998 KF ₃₆	14.0	0.15	20000226	68.69838	19.76992	304.47881	2.53057	0.0974765	2.7539732	83	3	1997-1999	0.70	M-v	3	Williams	38051	1998 KF ₃₆
1998 KE ₃₇	14.3	0.15	20000226	181.42159	41.61273	216.57577	3.57657	0.1195707	2.2031338	91	2	1998-2000	0.67	M-v	3	Williams	39531	1998 KE ₃₇
1998 KL ₃₇	14.1	0.15	20000226	336.51799	238.83947	206.46317	5.91910	0.0700599	2.2907630	109	3	1992-2000	0.55	M-v	2	Williams	38052	1998 KL ₃₇
1998 KK ₃₈	12.7	0.15	20000226	349.54668	145.48007	239.76049	8.74576	0.1011248	2.9947536	53	3	1984-2000	0.59	M-v	2	Williams	38052	1998 KK ₃₈
1998 KU ₃₈	14.2	0.15	20000226	259.50560	227.15192	263.57257	7.01208	0.0768818	2.5791545	39	3	1990-1999	0.69	M-v	4	Williams	36374	1998 KU ₃₈
1998 KE ₄₀	14.0	0.15	20000226	353.54139	307.42975	126.53004	4.41336	0.1266275	2.2658978	77	3	1982-2000	0.69	M-v	3	Williams	38052	1998 KE ₄₀
1998 KB ₄₄	15.2	0.15	20000226	201.89596	145.42465	57.27323	2.00111	0.1287869	2.4274527	34	3	1995-1999	0.71	M-v	5	Williams	36812	1998 KB ₄₄
1998 KH ₄₄	13.6	0.15	20000226	94.98804	48.70791	245.02740	11.74985	0.2073081	2.9351249	61	2	1998-2000	0.64	M-v	3	Williams	38052	1998 KH ₄₄
1998 KQ ₄₄	15.0	0.15	20000226	180.84847	13.84643	218.76691	5.51381	0.1029134	2.4028023	76	2	1998-1999	0.67	M-v	4	Williams	38778	1998 KQ ₄₄
1998 KJ ₄₅	14.3	0.15	20000226	92.43634	253.59578	75.25581	13.79131	0.2366246	2.6318162	56	2	1998-1999	0.64	M-v	4	Williams	37689	1998 KJ ₄₅
1998 KM ₄₅	15.0	0.15	20000226	215.02340	338.15333	241.70805	4.13698	0.1072759	2.2054001	72	2	1998-2000	0.64	M-v	4	Williams	39195	1998 KM ₄₅
1998 KQ ₄₅	14.4	0.15	20000226	196.74611	164.64152	66.19090	2.88133	0.1053103	2.2850252	87	2	1998-2000	0.64	M-v	3	Williams	38778	1998 KQ ₄₅
1998 KW ₄₆	12.6	0.15	20000226	55.68523	74.71890	245.11219	11.53649	0.0842066	3.1036607	86	3	1978-2000	0.53	M-v	2	Williams	38052	1998 KW ₄₆
1998 KX ₄₆	14.7	0.15	20000226	217.99909	329.37720	227.80630	1.40429	0.1357062	2.3356034	71	3	1994-1999	0.71	M-v	4	Williams	38052	1998 KX ₄₆
1998 KY ₄₆	15.3	0.15	20000226	165.24128	196.38099	73.66850	2.97887	0.1364694	2.2995329	43	3	1991-1999	0.73	M-v	4	Williams	38778	1998 KY ₄₆
1998 KE ₄₇	15.0	0.15	20000226	174.39463	31.18601	228.56570	3.23191	0.1417637	2.2934525	80	3	1988-1999	0.54	M-v	3	Williams	38052	1998 KE ₄₇
1998 KJ ₄₇	14.1	0.15	20000226	159.11914	30.16446	207.05202	4.28700	0.1256008	2.6201447	84	2	1998-1999	0.61	M-v	4	Williams	38052	1998 KJ ₄₇

1998 KK ₄₇	15.0	0.15	20000226	169.64337	179.35113	90.44604	7.47356	0.1715450	2.2743920	50	2	1998–2000	0.57	M-v	3	Williams	38052	1998 KK ₄₇
1998 KV ₄₇	14.2	0.15	20000226	320.08604	238.51469	218.97340	5.05281	0.1006323	2.3863325	107	3	1977–1999	0.67	M-v	3	Williams	38052	1998 KV ₄₇
1998 KV ₅₀	13.8	0.15	20000226	124.78879	82.27928	194.24804	13.02015	0.1522434	2.6062498	59	2	1998–2000	0.60	M-v	3	Williams	38052	1998 KV ₅₀
1998 KS ₅₁	13.6	0.15	20000226	101.06939	139.32270	178.69277	10.96370	0.1890551	2.5436885	91	3	1978–2000	0.66	M-v	2	Williams	38778	1998 KS ₅₁
1998 KL ₅₂	14.0	0.15	20000226	117.06015	58.28414	209.49435	12.25429	0.1133740	2.8027941	76	2	1998–1999	0.61	M-v	3	Williams	38052	1998 KL ₅₂
1998 KS ₅₃	13.8	0.15	20000226	99.19570	159.59591	134.15655	9.87625	0.1314166	2.7814989	52	3	1994–2000	0.63	M-v	2	Williams	37690	1998 KS ₅₃
1998 KT ₅₅	12.7	0.15	20000226	108.80851	218.14113	91.39879	17.52863	0.2335450	2.6564661	85	3	1980–2000	0.59	M-v	2	Williams	39531	1998 KT ₅₅
1998 KG ₅₆	14.7	0.15	20000226	322.32294	19.71904	123.63770	24.34662	0.0545657	1.9710316	41	2	1998–2000	0.54	M-v	3	Williams	38778	1998 KG ₅₆
1998 KS ₅₆	15.2	0.15	20000226	56.06625	207.29489	163.22002	3.71029	0.1406855	2.2189837	67	3	1996–2000	0.60	M-v	3	Williams	38468	1998 KS ₅₆
1998 KD ₅₈	15.0	0.15	20000226	13.12045	194.71711	218.69517	15.07775	0.1126908	2.5370067	83	2	1998–2000	0.45	M-v	3	Williams	38778	1998 KD ₅₈
1998 KJ ₅₈	15.4	0.15	20000226	332.03031	211.36482	237.84018	4.96769	0.0702592	2.2805163	91	2	1998–1999	0.57	M-v	4	Williams	38052	1998 KJ ₅₈
1998 KN ₆₃	13.8	0.15	20000226	53.97022	252.63567	84.13392	13.44671	0.1173126	2.7496252	43	2	1998–1999	0.63	M-v	3	Williams	37691	1998 KN ₆₃
1998 KG ₆₄	14.8	0.15	20000226	159.19431	127.98511	140.17823	2.26218	0.1496256	2.3321031	83	3	1995–1999	0.61	M-v	3	Williams	38778	1998 KG ₆₄
1998 KK ₆₄	14.7	0.15	20000226	173.93046	209.34749	27.67159	3.04404	0.1209793	2.4264675	66	2	1998–1999	0.70	M-v	4	Williams	38052	1998 KK ₆₄
1998 KA ₆₅	14.7	0.15	20000226	142.96839	305.12080	11.47491	3.69639	0.1944944	2.1836650	40	4	1979–2000	0.57	M-v	2	Williams	37691	1998 KA ₆₅
1998 LA ₂	14.3	0.15	20000226	215.59271	345.28240	234.30524	5.28013	0.0736064	2.2331207	109	2	1998–2000	0.67	M-v	3	Williams	37691	1998 LA ₂
1998 LN ₂	14.3	0.15	20000226	11.26610	205.56808	174.05707	9.47738	0.1519087	3.1569761	47	2	1998–1999	0.68	M-v	3	Williams	37281	1998 LN ₂
1998 LP ₂	14.7	0.15	20000226	126.29227	73.79981	223.96494	13.47920	0.1087555	2.5274562	59	2	1998–1999	0.65	M-v	3	Williams	38778	1998 LP ₂
1998 LV ₂	13.1	0.15	20000226	305.32984	217.16357	217.60844	15.34032	0.0967829	3.1363876	30	2	1998–1999	0.72	M-v	4	Williams	37691	1998 LV ₂
1998 MC	14.2	0.15	20000226	197.17934	157.09151	49.26044	6.12397	0.0933313	2.5896007	70	3	1991–1999	0.49	M-v	3	Williams	38052	1998 MC
1998 MX	13.8	0.15	20000226	90.21148	236.50259	86.72985	14.20556	0.1946946	2.5476116	76	2	1998–2000	0.62	M-v	3	Williams	37692	1998 MX
1998 MB ₁	14.7	0.15	20000226	38.97620	147.21136	240.02772	2.86984	0.1240664	2.3504938	74	2	1998–2000	0.52	M-v	3	Williams	39196	1998 MB ₁
1998 MP ₂	14.6	0.15	20000226	40.28921	110.42999	262.03351	10.68918	0.0398010	2.9935923	48	2	1998–2000	0.55	M-v	3	Williams	39196	1998 MP ₂
1998 MW ₂	15.7	0.15	20000226	151.56783	54.28751	211.93472	6.34107	0.0976795	2.3905524	41	2	1998–1999	0.62	M-v	4	Williams	38468	1998 MW ₂
1998 MF ₅	14.0	0.15	20000226	40.44924	85.40083	304.94375	6.33554	0.1286118	3.0278392	38	2	1998–2000	0.47	M-v	3	Williams	38778	1998 MF ₅
1998 MK ₅	12.5	0.15	20000226	74.99026	264.63740	118.97576	13.81374	0.1833370	2.6272343	94	2	1998–2000	0.59	M-v	3	Williams	39531	1998 MK ₅
1998 MO ₅	13.7	0.15	20000226	122.46620	211.59626	112.73257	24.46838	0.2263288	2.3660851	72	2	1998–2000	0.51	M-v	3	Williams	38778	1998 MO ₅
1998 MN ₇	14.1	0.15	20000226	52.44123	336.87873	26.07052	0.64681	0.2142924	3.1511331	86	3	1993–2000	0.52	M-v	2	Williams	39531	1998 MN ₇
1998 MZ ₈	14.1	0.15	20000226	112.83847	85.01845	174.09727	8.77252	0.0800869	3.0633333	70	3	1994–1999	0.62	M-v	3	Williams	36537	1998 MZ ₈
1998 MD ₉	13.6	0.15	20000226	16.76471	240.19875	154.89774	13.30530	0.1656003	2.6942053	60	2	1998–2000	0.63	M-v	3	Williams	38052	1998 MD ₉
1998 MZ ₁₁	13.2	0.15	20000226	52.41112	256.59779	133.68598	14.12506	0.1974100	2.5476595	43	3	1991–2000	0.57	M-v	2	Williams	39531	1998 MZ ₁₁
1998 MD ₁₃	13.2	0.15	20000226	185.45887	54.91264	166.40781	8.80641	0.2134535	2.5370874	47	2	1998–1999	0.62	M-v	4	Williams	39196	1998 MD ₁₃
1998 MZ ₁₃	13.7	0.15	20000226	81.79467	65.97471	266.63139	10.16919	0.1250984	3.0611615	51	2	1998–2000	0.57	M-v	3	Williams	37694	1998 MZ ₁₃
1998 MR ₁₅	14.4	0.15	20000226	62.65916	184.62299	176.78047	14.29284	0.1976206	2.5788135	45	2	1998–2000	0.68	M-v	3	Williams	38778	1998 MR ₁₅
1998 MG ₁₆	16.2	0.15	20000226	117.57976	224.54788	150.15209	2.73983	0.2230143	2.4029252	40	3	1991–2000	0.59	M-v	2	Williams	39196	1998 MG ₁₆
1998 ML ₁₆	14.4	0.15	20000226	286.02820	150.86094	335.01509	1.09014	0.0847665	3.0551150	42	2	1998–1999	0.54	M-v	4	Williams	38053	1998 ML ₁₆
1998 MN ₁₆	13.8	0.15	20000226	74.73590	271.80642	115.30039	14.21363	0.1757870	2.5900465	80	3	1995–2000	0.67	M-v	1	Williams	38778	1998 MN ₁₆
1998 MQ ₁₇	13.6	0.15	20000226	29.24509	108.22810	282.17923	6.68967	0.1440868	3.1294677	66	3	1982–2000	0.60	M-v	3	Williams	39196	1998 MQ ₁₇
1998 MP ₂₂	14.0	0.15	20000226	155.76949	221.70829	82.21200	7.93537	0.2303604	2.2584816	61	2	1998–2000	0.72	M-v	3	Williams	38778	1998 MP ₂₂
1998 MP ₂₃	13.4	0.15	20000226	313.23882	350.39872	126.05181	9.20179	0.1764033	2.7942009	58	4	1982–2000	0.61	M-v	2	Williams	37694	1998 MP ₂₃
1998 MZ ₂₃	13.0	0.15	20000226	95.68808	79.69992	293.52923	5.55533	0.1494231	2.4677663	116	3	1994–2000	0.63	M-v	2	Williams	38779	1998 MZ ₂₃
1998 MH ₂₇	14.2	0.15	20000226	167.19113	183.44724	100.66377	6.50044	0.1803978	2.3289439	50	2	1998–2000	0.59	M-v	3	Williams	39531	1998 MH ₂₇
1998 MV ₂₇	13.1	0.15	20000226	108.73592	47.49789	286.75056	12.68052	0.1853522	2.5775774	67	2	1998–2000	0.45	M-v	3	Williams	39531	1998 MV ₂₇
1998 MS ₂₈	13.7	0.15	20000226	91.89840	82.53838	264.13767	10.76355	0.2447819	2.7609345	36	2	1998–2000	0.57	M-v	4	Williams	38053	1998 MS ₂₈
1998 MP ₃₁	14.2	0.15	20000226	155.17156	35.50508	290.77012	5.35772	0.2208575	2.2169298	50	2	1998–2000	0.66	M-v	4	Williams	38469	1998 MP ₃₁
1998 MS ₃₁	13.8	0.15	20000226	99.41718	248.26841	79.69530	4.78044	0.1167354	2.7365446	107	2	1998–2000	0.53	M-v	3	Williams	38779	1998 MS ₃₁
1998 MB ₃₂	13.0	0.15	20000226	244.44221	89.05899	95.89024	15.72303	0.0452186	2.5688208	59	2	1998–2000	0.68	M-v	3	Williams	38779	1998 MB ₃₂
1998 MC ₃₂	14.2	0.15	20000226	137.07364	36.83816	298.23987	7.24237	0.2117743	2.3151869	74	3	1995–2000	0.67	M-v	3	Williams	38779	1998 MC ₃₂
1998 MF ₃₂	12.9	0.15	20000226	330.50323	351.37344	98.50545	10.15942	0.0089565	2.7640530	76	3	1995–2000	0.57	M-v	3	Williams	38053	1998 MF ₃₂
1998 MN ₃₃	13.2	0.15	20000226	46.95543	83.57438	291.03269	8.75651	0.1301302	3.0098627	57	2	1998–2000	0.70	M-v	3	Williams	38779	1998 MN ₃₃
1998 MP ₃₃	13.9	0.15	20000226	321.56275	17.98989	104.49635	8.27894	0.1117736	2.4611094	85	4	1970–2000	0.53	M-v	3	Williams	38053	1998 MP ₃₃
1998 MR ₃₃	13.0	0.15	20000226	113.98348	184.37633	96.39192	5.87638	0.1946413	3.1325324	71	2	1998–2000	0.61	M-v	3	Williams	38053	1998 MR ₃₃
1998 MJ ₃₄	14.3	0.15	20000226	154.09352	202.93460	98.65581	6.98190	0.1273791	2.3795527	39	2	1998–2000	0.46	M-v	3	Williams	38470	1998 MJ ₃₄

1998 ML ₃₅	13.3	0.15	20000226	36.19633	82.06349	293.88036	20.63513	0.0966547	3.1614876	43	2	1998-2000	0.73	M-v	3	Williams	38779	1998 ML ₃₅
1998 MR ₃₅	13.3	0.15	20000226	82.11528	284.68345	54.01951	3.06203	0.0835351	2.8961764	94	3	1989-1999	0.56	M-v	3	Williams	38053	1998 MR ₃₅
1998 MJ ₃₇	13.8	0.15	20000226	100.59836	227.96923	111.97355	15.62728	0.2181961	2.7329753	33	2	1998-2000	0.59	M-v	3	Williams	38779	1998 MJ ₃₇
1998 MM ₃₇	13.0	0.15	20000226	90.60128	209.60816	122.16275	10.21737	0.0858701	3.0204393	51	2	1998-2000	0.61	M-v	3	Williams	39531	1998 MM ₃₇
1998 MH ₄₀	13.3	0.15	20000226	355.62896	297.25608	133.95582	11.77606	0.1530634	2.9264232	54	2	1998-2000	0.67	M-v	3	Williams	39197	1998 MH ₄₀
1998 MX ₄₀	14.4	0.15	20000226	98.54333	244.22902	91.56640	8.79283	0.2312224	2.7678321	33	2	1998-2000	0.59	M-v	4	Williams	37697	1998 MX ₄₀
1998 MJ ₄₁	14.4	0.15	20000226	112.38299	304.01140	101.14382	23.99116	0.0998113	1.9450057	32	3	1993-2000	0.66	M-v	2	Williams	39197	1998 MJ ₄₁
1998 MV ₄₂	14.0	0.15	20000226	12.06771	177.37543	276.20742	4.05117	0.1247096	2.2768292	98	3	1992-2000	0.75	M-v	2	Williams	39531	1998 MV ₄₂
1998 MH ₄₆	13.6	0.15	20000226	153.14472	240.38714	1.36642	0.32609	0.1459520	3.0241964	58	5	1976-1999	0.65	M-v	1	Williams	39198	1998 MH ₄₆
1998 NF	14.1	0.15	20000226	182.60647	163.29559	76.14311	3.54124	0.1338565	2.4168406	69	2	1998-1999	0.55	M-v	3	Williams	38779	1998 NF
1998 NH	13.9	0.15	20000226	23.33539	289.40811	124.78897	12.25771	0.1303119	2.7729411	58	2	1998-2000	0.53	M-v	3	Williams	39531	1998 NH
1998 OB	15.5	0.15	20000226	52.20610	161.04657	172.30379	8.97084	0.1255131	3.0948168	22	3	1997-1999	0.30	M-v	3	Williams	32973	1998 OB
1998 OM	13.7	0.15	20000226	159.05935	37.48203	242.46462	13.40509	0.1567183	2.6119356	65	2	1998-2000	0.55	M-v	3	Williams	38053	1998 OM
1998 OS	15.0	0.15	20000226	298.57269	222.83660	264.86248	6.09809	0.0710793	2.7629197	46	2	1998-1999	0.57	M-v	4	Williams	38779	1998 OS
1998 OW	15.5	0.15	20000226	36.01248	152.96049	270.57197	6.06574	0.1642408	2.5687656	46	2	1998-2000	0.45	M-v	3	Williams	39531	1998 OW
1998 OY	14.6	0.15	20000226	33.97877	108.39340	281.22231	9.09384	0.0640689	2.9604423	51	2	1998-2000	0.51	M-v	3	Williams	38470	1998 OY
1998 OD ₁	14.9	0.15	20000226	130.01872	84.72008	265.48065	5.41342	0.1434108	2.3856222	92	3	1991-2000	0.52	M-v	2	Williams	39531	1998 OD ₁
1998 OY ₄	14.3	0.15	20000226	56.56810	196.17037	231.86804	8.10466	0.1774447	2.5541923	67	3	1990-2000	0.53	M-v	2	Williams	39531	1998 OY ₄
1998 OW ₅	12.6	0.15	20000226	276.11906	4.18050	142.47141	14.95977	0.1000264	3.1677116	74	2	1998-2000	0.58	M-v	3	Williams	38053	1998 OW ₅
1998 OJ ₆	13.8	0.15	20000226	124.49232	123.33063	157.72520	5.34502	0.0970386	3.2606695	17	2	1993-1998	0.57	M-v	5	Williams	38470	1998 OJ ₆
1998 OX ₆	13.0	0.15	20000226	143.51984	350.22943	307.07449	11.81584	0.0678272	2.8594084	73	2	1998-2000	0.53	M-v	3	Williams	37699	1998 OX ₆
1998 OY ₆	13.8	0.15	20000226	265.85079	242.70310	305.58839	11.64685	0.0914931	2.6208640	57	2	1998-2000	0.52	M-v	3	Williams	37700	1998 OY ₆
1998 OJ ₇	14.7	0.15	20000226	143.79189	109.68179	226.15599	5.25832	0.1555371	2.4111877	84	2	1998-2000	0.60	M-v	3	Williams	38779	1998 OJ ₇
1998 OL ₈	12.9	0.15	20000226	46.38152	237.40706	145.59055	9.65894	0.1144493	3.2242697	75	2	1998-2000	0.54	M-v	3	Williams	39531	1998 OL ₈
1998 OP ₈	14.7	0.15	20000226	0.06497	201.08892	287.06037	4.39608	0.0888085	2.2625035	72	2	1998-2000	0.55	M-v	3	Williams	39531	1998 OP ₈
1998 OR ₈	13.3	0.15	20000226	35.02369	180.62071	200.34687	2.31144	0.2516907	3.9557247	101	2	1998-1999	0.61	M-v	3	Williams	38053	1998 OR ₈
1998 OH ₁₀	14.5	0.15	20000226	94.57198	258.66113	153.03195	6.21790	0.1971652	2.2823544	62	2	1998-2000	0.51	M-v	3	Williams	39198	1998 OH ₁₀
1998 OQ ₁₀	14.2	0.15	20000226	307.35600	247.41862	300.82773	0.51603	0.0273463	2.1548734	100	3	1995-2000	0.59	M-v	2	Williams	39531	1998 OQ ₁₀
1998 OK ₁₁	14.6	0.15	20000226	252.62387	95.21208	135.82258	4.95785	0.0608222	2.2197146	46	2	1998-2000	0.56	M-v	4	Williams	38779	1998 OK ₁₁
1998 ON ₁₁	13.3	0.15	20000226	22.41851	178.37051	237.54295	1.08089	0.0167249	2.9104177	109	2	1998-2000	0.58	M-v	3	Williams	39531	1998 ON ₁₁
1998 OQ ₁₁	15.7	0.15	20000226	140.09662	206.36356	140.04158	2.72431	0.2283845	2.3456710	38	2	1998-2000	0.64	M-v	4	Williams	39531	1998 OQ ₁₁
1998 OW ₁₁	13.6	0.15	20000226	356.77255	327.01241	93.52190	11.65978	0.0935826	2.9779859	53	3	1986-2000	0.53	M-v	3	Williams	38054	1998 OW ₁₁
1998 OZ ₁₁	14.9	0.15	20000226	116.25582	36.69793	338.22598	7.37119	0.1226697	2.2831515	77	2	1998-2000	0.70	M-v	3	Williams	39531	1998 OZ ₁₁
1998 OD ₁₂	14.4	0.15	20000226	248.93441	219.22475	352.35255	5.94114	0.0757466	2.3932345	65	3	1997-2000	0.68	M-v	3	Williams	38779	1998 OD ₁₂
1998 OR ₁₂	13.2	0.15	20000226	38.34017	274.91504	131.19141	3.00007	0.0641893	2.9279520	64	3	1989-2000	0.67	M-v	2	Williams	39531	1998 OR ₁₂
1998 OS ₁₂	14.4	0.15	20000226	94.43110	57.77536	320.21238	12.66395	0.2230015	2.6540493	59	2	1998-2000	0.69	M-v	3	Williams	39531	1998 OS ₁₂
1998 OU ₁₂	15.1	0.15	20000226	154.43881	208.20685	129.90893	8.24207	0.2246167	2.2637626	56	3	1991-2000	0.54	M-v	2	Williams	39198	1998 OU ₁₂
1998 OZ ₁₂	13.0	0.15	20000226	93.35584	5.46174	329.87847	13.98200	0.0990168	3.1189477	60	2	1998-2000	0.69	M-v	3	Williams	38471	1998 OZ ₁₂
1998 OB ₁₃	12.9	0.15	20000226	353.80294	292.36819	148.78876	14.70114	0.0838043	3.1864602	84	2	1998-2000	0.65	M-v	3	Williams	38779	1998 OB ₁₃
1998 OK ₁₃	14.7	0.15	20000226	80.78429	293.56737	130.99606	6.23826	0.1048788	2.2254169	82	2	1998-2000	0.61	M-v	3	Williams	39198	1998 OK ₁₃
1998 ON ₁₃	13.8	0.15	20000226	139.15965	35.68823	318.18521	9.52806	0.0681544	2.2635455	135	3	1981-2000	0.54	M-v	2	Williams	39531	1998 ON ₁₃
1998 OV ₁₃	15.3	0.15	20000226	116.43195	241.91496	138.62176	7.12299	0.1148374	2.2894653	61	2	1998-2000	0.62	M-v	3	Williams	39531	1998 OV ₁₃
1998 OC ₁₄	13.9	0.15	20000226	43.18654	283.64729	142.29927	12.48689	0.1396722	2.7034718	67	2	1998-2000	0.59	M-v	3	Williams	39531	1998 OC ₁₄
1998 ON ₁₄	14.8	0.15	20000226	80.02036	302.16718	113.58914	3.26939	0.1889312	2.4252433	56	2	1998-2000	0.63	M-v	4	Williams	39531	1998 ON ₁₄
1998 OT ₁₄	15.0	0.15	20000226	143.38816	35.26282	326.14806	5.07950	0.1944181	2.2275615	86	2	1998-2000	0.71	M-v	3	Williams	39531	1998 OT ₁₄
1998 PO	13.2	0.15	20000226	53.69808	142.35978	256.89167	4.38713	0.0707106	2.7461148	78	2	1998-2000	0.52	M-v	3	Williams	38054	1998 PO
1998 PU	14.5	0.15	20000226	128.66898	31.29597	332.28352	6.11792	0.2046865	2.3949488	107	2	1998-2000	0.59	M-v	3	Williams	39531	1998 PU
1998 PV	13.6	0.15	20000226	34.54984	276.17307	122.45126	8.22327	0.1526210	2.7412180	79	2	1998-2000	0.49	M-v	3	Williams	39532	1998 PV
1998 PX	15.3	0.15	20000226	135.28011	19.32848	342.61610	4.49284	0.1704035	2.2572392	61	3	1996-2000	0.53	M-v	3	Williams	39532	1998 PX
1998 PL ₁	13.6	0.15	20000226	76.64867	170.17475	244.05795	4.72375	0.1240113	2.4496425	106	3	1987-2000	0.59	M-v	1	Williams	39532	1998 PL ₁
1998 PP ₁	12.4	0.15	20000226	32.15203	113.37948	290.31376	9.52920	0.0699574	3.2358721	73	2	1998-2000	0.52	M-v	3	Williams	38780	1998 PP ₁
1998 QB	14.2	0.15	20000226	268.48807	266.79464	315.76459	6.03021	0.0741466	2.3366125	83	3	1997-2000	0.64	M-v	3	Williams	38780	1998 QB
1998 QC	14.2	0.15	20000226	52.72263	161.74459	306.79770	4.51241	0.0680605	2.1775232	88	3	1990-2000	0.57	M-v	2	Williams	39532	1998 QC

1998 QD	16.2	0.15	20000226	136.54985	195.85061	151.90341	3.06787	0.2087140	2.4311480	51	2	1998-2000	0.67	M-v	4	Williams	38473	1998 QD
1998 QE	14.0	0.15	20000226	33.83827	94.33142	341.76773	2.32110	0.0499360	2.6611244	89	2	1998-2000	0.53	M-v	3	Williams	38780	1998 QE
1998 QF	13.3	0.15	20000226	194.74333	253.19783	337.67617	8.17071	0.0845732	3.1878761	58	2	1998-1999	0.62	M-v	4	Williams	37283	1998 QF
1998 QL	13.9	0.15	20000226	75.64057	359.40038	15.17522	3.58071	0.1075268	2.7978214	58	2	1998-2000	0.53	M-v	3	Williams	37705	1998 QL
1998 QR	14.2	0.15	20000226	309.16439	340.42837	176.63390	4.17863	0.0987500	2.3321808	83	3	1981-2000	0.64	M-v	3	Williams	39532	1998 QR
1998 QL ₁	14.0	0.15	20000226	88.92553	170.93997	207.22045	3.79588	0.1221077	2.6790173	65	5	1986-2000	0.64	M-v	1	Williams	39532	1998 QL ₁
1998 QQ ₁	14.5	0.15	20000226	86.82106	254.35272	156.21161	4.46435	0.1906918	2.4272589	77	2	1998-2000	0.60	M-v	3	Williams	39199	1998 QQ ₁
1998 QM ₂	13.8	0.15	20000226	210.65439	65.20774	211.69632	5.18284	0.0859305	2.3473491	91	2	1998-2000	0.62	M-v	4	Williams	38780	1998 QM ₂
1998 QU ₂	13.5	0.15	20000226	105.81634	202.73412	162.73067	15.62712	0.2106681	2.5649389	87	3	1994-2000	0.61	M-v	2	Williams	39532	1998 QU ₂
1998 QH ₃	13.7	0.15	20000226	84.61518	63.01517	334.79248	23.03950	0.2195542	2.6278582	69	2	1998-2000	0.52	M-v	3	Williams	39532	1998 QH ₃
1998 QQ ₃	14.9	0.15	20000226	76.32574	70.61309	331.42580	29.02222	0.2790598	2.7417224	53	2	1998-2000	0.60	M-v	4	Williams	39532	1998 QQ ₃
1998 QX ₃	13.4	0.15	20000226	44.86496	257.81056	143.32442	11.81862	0.1586560	3.1590066	50	2	1998-2000	0.65	M-v	3	Williams	39532	1998 QX ₃
1998 QJ ₄	14.6	0.15	20000226	89.07819	359.84170	60.68153	3.47871	0.2060342	2.3665293	99	3	1991-2000	0.63	M-v	2	Williams	39532	1998 QJ ₄
1998 QL ₄	14.0	0.15	20000226	183.40332	252.62243	350.68760	1.37843	0.0351586	2.9466476	71	2	1998-1999	0.58	M-v	4	Williams	38474	1998 QL ₄
1998 QJ ₅	14.3	0.15	20000226	99.58949	112.28724	248.72801	3.66250	0.1152949	2.7122112	48	2	1998-2000	0.55	M-v	3	Williams	37706	1998 QJ ₅
1998 QC ₅	16.0	0.15	20000226	272.41419	85.36997	177.17290	21.67295	0.0915308	1.9069558	55	3	1977-2000	0.68	M-v	2	Williams	39532	1998 QC ₅
1998 QS ₅	14.3	0.15	20000226	83.56128	56.04685	338.40732	6.71608	0.2285231	2.7359964	90	2	1998-2000	0.59	M-v	3	Williams	39532	1998 QS ₅
1998 QO ₆	14.9	0.15	20000226	92.06271	53.73659	24.89342	5.60290	0.2102647	2.5563516	43	6	1976-2000	0.74	M-v	2	Williams	39200	1998 QO ₆
1998 QP ₆	14.6	0.15	20000226	113.89445	12.39123	31.17213	3.23746	0.1011604	2.5523629	66	3	1996-2000	0.58	M-v	3	Williams	39532	1998 QP ₆
1998 QC ₇	13.1	0.15	20000226	146.54142	121.00367	144.26882	11.00222	0.0732311	2.9891571	62	2	1998-2000	0.61	M-v	3	Williams	37707	1998 QC ₇
1998 QQ ₇	14.4	0.15	20000226	219.84114	263.07904	349.41426	3.35019	0.1473687	2.1715758	43	2	1998-2000	0.61	M-v	4	Williams	38780	1998 QQ ₇
1998 QT ₇	15.1	0.15	20000226	124.76670	33.42837	313.68702	4.21583	0.2226334	2.4327413	34	3	1983-2000	0.69	M-v	4	Williams	38474	1998 QT ₇
1998 QU ₇	13.5	0.15	20000226	62.96030	228.79876	132.82754	11.99935	0.0957447	3.0402193	56	2	1998-2000	0.63	M-v	3	Williams	38780	1998 QU ₇
1998 QO ₈	14.6	0.15	20000226	127.19572	217.86508	131.06342	6.69698	0.1444452	2.3540043	30	2	1998-2000	0.60	M-v	4	Williams	38780	1998 QO ₈
1998 QU ₁₀	13.2	0.15	20000226	123.63332	323.39522	321.79982	5.54521	0.0508351	3.2525242	49	2	1998-2000	0.61	M-v	3	Williams	38054	1998 QU ₁₀
1998 QX ₁₀	12.6	0.15	20000226	21.67018	284.91913	126.97252	10.73471	0.1055027	3.0319123	88	2	1998-2000	0.60	M-v	3	Williams	39532	1998 QX ₁₀
1998 QA ₁₁	14.9	0.15	20000226	239.09001	279.74824	349.83689	5.69876	0.0952667	1.9798971	57	3	1981-2000	0.47	M-v	2	Williams	39532	1998 QA ₁₁
1998 QE ₁₁	12.8	0.15	20000226	97.99723	346.62622	329.81958	22.05789	0.1049194	3.1695656	45	3	1981-1999	0.57	M-v	3	Williams	38054	1998 QE ₁₁
1998 QT ₁₁	13.8	0.15	20000226	92.70439	169.11664	159.04186	10.70742	0.1304330	3.1458232	35	2	1998-1999	0.79	M-v	4	Williams	37708	1998 QT ₁₁
1998 QZ ₁₁	14.0	0.15	20000226	73.79744	105.55290	297.03075	10.77510	0.1847546	2.5701318	76	3	1990-2000	0.53	M-v	1	Williams	39532	1998 QZ ₁₁
1998 QC ₁₂	13.4	0.15	20000226	156.52013	11.28214	289.08071	8.25739	0.0721654	2.5281643	66	2	1998-2000	0.47	M-v	3	Williams	39532	1998 QC ₁₂
1998 QE ₁₂	12.4	0.15	20000226	306.42813	275.51917	193.02003	9.28822	0.1023792	3.4216062	73	3	1996-2000	0.60	M-v	3	Williams	38055	1998 QE ₁₂
1998 QG ₁₂	14.5	0.15	20000226	246.56845	12.59136	207.82662	6.05482	0.0733990	2.3509231	51	3	1997-2000	0.58	M-v	2	Williams	39532	1998 QG ₁₂
1998 QV ₁₂	14.5	0.15	20000226	96.84441	81.51230	298.28416	5.59118	0.0841740	2.4169536	60	4	1983-2000	0.61	M-v	1	Williams	38780	1998 QV ₁₂
1998 QW ₁₃	16.0	0.15	20000226	154.96703	13.75059	304.27532	1.87059	0.2324672	2.3553173	24	2	1998-2000	0.49	M-v	4	Williams	38475	1998 QW ₁₃
1998 QA ₁₄	13.5	0.15	20000226	300.30883	349.89206	157.11728	13.51733	0.1179638	2.6824336	69	2	1998-2000	0.65	M-v	3	Williams	38780	1998 QA ₁₄
1998 QB ₁₅	13.9	0.15	20000226	111.28425	180.69269	149.62511	9.96993	0.1652204	2.7699521	42	2	1998-2000	0.51	M-v	3	Williams	37710	1998 QB ₁₅
1998 QE ₁₇	12.8	0.15	20000226	77.41543	72.09427	338.48969	10.65212	0.3043008	2.6261657	121	3	1943-2000	0.53	M-v	1	Williams	39532	1998 QE ₁₇
1998 QZ ₁₇	14.1	0.15	20000226	649.86764	274.49860	218.68794	4.94276	0.0683564	2.3417187	67	3	1997-2000	0.59	M-v	3	Williams	38781	1998 QZ ₁₇
1998 QB ₁₉	13.3	0.15	20000226	69.27378	242.97554	128.14057	11.04825	0.1159009	2.9940615	64	2	1998-2000	0.57	M-v	3	Williams	39532	1998 QB ₁₉
1998 QY ₁₉	14.6	0.15	20000226	33.16046	302.10838	162.92057	7.84961	0.1292238	2.3058267	73	3	1993-2000	0.72	M-v	2	Williams	39532	1998 QY ₁₉
1998 QA ₂₀	14.0	0.15	20000226	90.28394	79.77567	304.93083	11.39285	0.2191492	2.6677162	93	2	1998-2000	0.56	M-v	3	Williams	39201	1998 QA ₂₀
1998 QD ₂₀	13.8	0.15	20000226	43.44048	220.95838	186.19019	11.02907	0.0933928	2.9386194	56	2	1998-2000	0.70	M-v	3	Williams	38781	1998 QD ₂₀
1998 QK ₂₀	14.7	0.15	20000226	113.78407	122.67192	237.16395	3.15544	0.0598681	2.4849043	26	2	1998-2000	0.68	M-v	5	Williams	38475	1998 QK ₂₀
1998 QS ₂₀	15.8	0.15	20000226	150.47506	111.15691	248.69848	1.00181	0.1742386	2.1648752	45	2	1998-2000	0.52	M-v	4	Williams	39532	1998 QS ₂₀
1998 QW ₂₀	14.3	0.15	20000226	20.69451	285.10221	159.89716	8.78887	0.1322778	2.7446830	46	2	1998-2000	0.71	M-v	3	Williams	39532	1998 QW ₂₀
1998 QD ₂₁	14.6	0.15	20000226	10.63899	287.31205	182.59516	1.99404	0.0475656	2.4065033	56	2	1998-2000	0.68	M-v	3	Williams	39532	1998 QD ₂₁
1998 QR ₂₁	15.3	0.15	20000226	87.72941	97.49288	328.74817	5.69519	0.1212719	2.1837721	53	2	1998-2000	0.79	M-v	4	Williams	39202	1998 QR ₂₁
1998 QA ₂₂	12.8	0.15	20000226	116.84404	148.02814	161.06742	15.53896	0.0643453	3.1821629	76	3	1987-2000	0.58	M-v	3	Williams	38781	1998 QA ₂₂
1998 QW ₂₂	14.2	0.15	20000226	50.11531	70.33398	14.26087	3.87148	0.0902718	2.2999667	113	3	1997-2000	0.62	M-v	2	Williams	39532	1998 QW ₂₂
1998 QX ₂₂	13.7	0.15	20000226	27.94528	280.24639	135.99348	16.43920	0.1279412	3.1030896	39	2	1998-2000	0.61	M-v	3	Williams	39202	1998 QX ₂₂
1998 QB ₂₃	13.6	0.15	20000226	33.07676	23.35736	25.92910	5.78508	0.1523518	3.1693719	72	2	1998-2000	0.57	M-v	3	Williams	38781	1998 QB ₂₃
1998 QE ₂₃	14.1	0.15	20000226	44.91096	30.21114	59.06391	3.26025	0.1696391	2.4038904	92	3	1980-2000	0.68	M-v	2	Williams	39532	1998 QE ₂₃

1998 QW ₂₃	14.5	0.15	20000226	47.43349	286.23309	168.89469	8.46753	0.1324826	2.3015394	92	2	1998-2000	0.62	M-v	3	Williams	39532	1998 QW ₂₃
1998 QB ₂₄	14.4	0.15	20000226	93.09268	127.36062	272.79595	5.70645	0.1161011	2.3926361	73	2	1998-2000	0.67	M-v	3	Williams	39532	1998 QB ₂₄
1998 QF ₂₄	14.7	0.15	20000226	74.53552	94.22085	297.65741	6.73360	0.1427588	2.7485720	58	2	1998-2000	0.61	M-v	3	Williams	38781	1998 QF ₂₄
1998 QM ₂₄	15.1	0.15	20000226	88.79164	206.50579	170.72030	7.96400	0.2405646	2.8030627	43	2	1998-2000	0.72	M-v	4	Williams	38476	1998 QM ₂₄
1998 QV ₂₄	14.9	0.15	20000226	110.06990	223.51001	169.77013	4.00051	0.1639870	2.3148910	80	2	1998-2000	0.54	M-v	3	Williams	39532	1998 QV ₂₄
1998 QZ ₂₄	12.6	0.15	20000226	300.01885	340.32055	154.93010	7.07472	0.1457349	3.1742715	62	2	1998-2000	0.58	M-v	3	Williams	39532	1998 QZ ₂₄
1998 QM ₂₆	16.1	0.15	20000226	102.55400	241.41902	144.05928	2.79435	0.1815944	2.4113683	46	2	1998-2000	0.48	M-v	4	Williams	39202	1998 QM ₂₆
1998 QS ₂₆	15.2	0.15	20000226	134.47451	128.41205	222.72946	3.26600	0.0725733	2.4207294	52	2	1998-2000	0.66	M-v	4	Williams	39533	1998 QS ₂₆
1998 QF ₂₇	16.2	0.15	20000226	127.57045	247.15538	175.09666	22.87909	0.1143845	1.9503461	48	4	1979-2000	0.75	M-v	2	Williams	35710	1998 QF ₂₇
1998 QM ₂₈	14.4	0.15	20000226	155.59150	264.10485	63.76441	0.29805	0.0813649	2.6466002	98	2	1998-2000	0.59	M-v	4	Williams	39533	1998 QM ₂₈
1998 QE ₂₉	13.4	0.15	20000226	134.05148	95.01986	292.73238	11.72228	0.1892013	2.7000590	80	5	1978-2000	0.68	M-v	2	Williams	39202	1998 QE ₂₉
1998 QK ₂₉	15.5	0.15	20000226	71.14345	135.13450	282.10715	5.82065	0.1200015	2.4642511	24	2	1998-2000	0.43	M-v	3	Williams	39533	1998 QK ₂₉
1998 QA ₃₁	13.0	0.15	20000226	8.43065	110.16885	329.70387	8.98452	0.0890168	3.0169628	48	2	1998-2000	0.66	M-v	4	Williams	37716	1998 QA ₃₁
1998 QP ₃₁	14.3	0.15	20000226	350.90187	31.20329	107.66520	6.48936	0.0799320	2.3066122	96	2	1998-2000	0.56	M-v	3	Williams	38781	1998 QP ₃₁
1998 QT ₃₁	14.7	0.15	20000226	118.97605	278.10980	87.18729	3.31007	0.1962359	2.4574691	45	2	1998-2000	0.70	M-v	4	Williams	39533	1998 QT ₃₁
1998 QW ₃₁	14.3	0.15	20000226	132.28973	21.08981	349.38377	6.61500	0.2199880	2.2877280	98	3	1991-2000	0.65	M-v	2	Williams	39533	1998 QW ₃₁
1998 QV ₃₃	15.0	0.15	20000226	141.78083	135.38785	200.11387	1.89031	0.2095831	2.4428458	41	2	1998-2000	0.69	M-v	4	Williams	38477	1998 QV ₃₃
1998 QA ₃₄	16.2	0.15	20000226	133.50506	38.31163	317.28824	1.99050	0.2127834	2.3945926	41	2	1998-2000	0.57	M-v	4	Williams	39203	1998 QA ₃₄
1998 QK ₃₄	13.2	0.15	20000226	118.75572	13.50636	334.82385	14.52870	0.1275483	2.5950601	73	2	1998-2000	0.61	M-v	3	Williams	38782	1998 QK ₃₄
1998 QB ₃₅	13.9	0.15	20000226	1.53883	163.25576	317.42097	13.10444	0.1193048	2.5341711	67	3	1988-2000	0.60	M-v	2	Williams	39533	1998 QB ₃₅
1998 QK ₃₅	14.4	0.15	20000226	98.59326	5.58443	34.66532	2.58490	0.2018108	2.4151612	55	2	1998-2000	0.51	M-v	3	Williams	39204	1998 QK ₃₅
1998 QS ₃₅	15.2	0.15	20000226	76.15810	64.56079	356.37519	6.08152	0.0933146	2.3404751	64	2	1998-2000	0.70	M-v	3	Williams	39533	1998 QS ₃₅
1998 QW ₃₆	15.5	0.15	20000226	133.70203	77.56544	284.57951	5.42893	0.1355175	2.3356722	53	2	1998-2000	0.74	M-v	4	Williams	39533	1998 QW ₃₆
1998 QM ₃₇	13.5	0.15	20000226	350.03459	200.15869	299.31449	5.67583	0.0651484	2.3836971	88	2	1998-2000	0.53	M-v	3	Williams	38782	1998 QM ₃₇
1998 QT ₃₇	15.4	0.15	20000226	106.09007	210.62904	164.38062	8.94917	0.3316427	2.6611637	46	3	1996-2000	0.57	M-v	3	Williams	39533	1998 QT ₃₇
1998 QC ₃₈	14.3	0.15	20000226	311.03750	191.36445	345.32836	6.83468	0.0499118	2.3221812	67	3	1997-2000	0.58	M-v	3	Williams	38782	1998 QC ₃₈
1998 QD ₃₈	13.7	0.15	20000226	79.70888	270.00689	103.37745	2.59816	0.0612235	2.8511451	63	3	1996-2000	0.55	M-v	3	Williams	39533	1998 QD ₃₈
1998 QF ₃₈	15.1	0.15	20000226	163.72398	188.41149	136.89438	8.07984	0.1526582	2.2893515	49	3	1991-2000	0.61	M-v	3	Williams	38782	1998 QF ₃₈
1998 QL ₃₈	15.2	0.15	20000226	134.98723	36.75044	331.85187	5.57412	0.1544642	2.2774671	98	3	1991-2000	0.53	M-v	3	Williams	39533	1998 QL ₃₈
1998 QP ₃₈	13.9	0.15	20000226	67.88592	252.22918	175.27430	7.80755	0.2767346	2.6606142	101	3	1994-2000	0.68	M-v	1	Williams	39533	1998 QP ₃₈
1998 QT ₃₈	15.3	0.15	20000226	111.39160	107.62312	283.76688	3.94880	0.1430347	2.3411994	34	3	1996-2000	0.57	M-v	3	Williams	38478	1998 QT ₃₈
1998 QY ₃₈	15.4	0.15	20000226	124.51624	209.91829	172.94987	6.38291	0.2177441	2.3099163	72	3	1977-2000	0.59	M-v	3	Williams	39533	1998 QY ₃₈
1998 QM ₃₉	15.4	0.15	20000226	93.80021	340.80223	68.79089	3.22763	0.2077127	2.3990693	30	3	1987-2000	0.73	M-v	3	Williams	32704	1998 QM ₃₉
1998 QX ₃₉	14.7	0.15	20000226	155.33342	198.83248	147.41883	5.17629	0.1977338	2.2464466	96	3	1988-2000	0.51	M-v	2	Williams	39533	1998 QX ₃₉
1998 QE ₄₀	14.2	0.15	20000226	75.11184	224.08294	198.72115	3.11308	0.1727796	2.4751195	73	2	1998-2000	0.66	M-v	4	Williams	39533	1998 QE ₄₀
1998 QF ₄₀	13.8	0.15	20000226	305.22896	288.99999	226.87004	2.71435	0.0241948	2.7358394	53	2	1998-2000	0.68	M-v	4	Williams	38056	1998 QF ₄₀
1998 QH ₄₀	14.7	0.15	20000226	104.26815	142.86595	259.23370	2.94728	0.2222263	2.3972193	48	3	1987-2000	0.75	M-v	2	Williams	39533	1998 QH ₄₀
1998 QM ₄₀	13.9	0.15	20000226	133.03350	16.56689	313.26434	11.22601	0.1884947	2.6563409	45	3	1995-2000	0.57	M-v	2	Williams	39533	1998 QM ₄₀
1998 QN ₄₀	14.5	0.15	20000226	55.94898	186.60462	250.94832	4.24424	0.0344350	2.3761836	64	2	1998-2000	0.58	M-v	3	Williams	39533	1998 QN ₄₀
1998 QQ ₄₀	14.1	0.15	20000226	136.82580	158.20727	176.06291	14.72871	0.0999267	2.5752111	42	2	1998-2000	0.67	M-v	3	Williams	38479	1998 QQ ₄₀
1998 QT ₄₀	14.0	0.15	20000226	22.54477	214.95483	224.78379	4.43006	0.0420259	2.7989898	62	2	1998-2000	0.66	M-v	3	Williams	38782	1998 QT ₄₀
1998 QY ₄₀	14.7	0.15	20000226	133.74382	192.50003	178.80170	5.72305	0.2065886	2.3052980	66	4	1977-2000	0.53	M-v	3	Williams	39533	1998 QY ₄₀
1998 QA ₄₁	15.2	0.15	20000226	142.36630	58.91129	299.72412	2.69776	0.2013444	2.3019755	68	3	1997-2000	0.59	M-v	3	Williams	39204	1998 QA ₄₁
1998 QC ₄₁	13.7	0.15	20000226	173.76487	309.83176	328.64226	9.58985	0.1224438	2.6922562	45	2	1998-1999	0.58	M-v	3	Williams	37720	1998 QC ₄₁
1998 QD ₄₁	15.6	0.15	20000226	102.08673	221.22255	175.23026	4.08394	0.1367085	2.3823982	49	2	1998-2000	0.75	M-v	4	Williams	39204	1998 QD ₄₁
1998 QJ ₄₁	15.9	0.15	20000226	146.97551	21.27225	319.82616	1.95152	0.1789959	2.3684989	31	2	1998-2000	0.64	M-v	4	Williams	39533	1998 QJ ₄₁
1998 QL ₄₁	14.6	0.15	20000226	83.90073	69.56715	337.23898	12.24124	0.2749915	2.6605266	61	2	1998-2000	0.63	M-v	4	Williams	39204	1998 QL ₄₁
1998 QY ₄₂	14.0	0.15	20000226	279.69528	38.08752	160.35040	10.72700	0.1352323	2.3878852	54	2	1998-2000	0.52	M-v	3	Williams	39533	1998 QY ₄₂
1998 QB ₄₃	13.9	0.15	20000226	19.95639	249.50471	128.34375	7.72734	0.2370924	2.7405488	84	3	1996-2000	0.61	M-v	2	Williams	39533	1998 QB ₄₃
1998 QE ₄₃	13.7	0.15	20000226	60.72511	281.09073	131.26355	3.15634	0.2031391	2.8605676	82	2	1998-2000	0.55	M-v	3	Williams	39533	1998 QE ₄₃
1998 QJ ₄₃	15.2	0.15	20000226	113.39230	265.84213	125.39431	7.06644	0.0077209	2.1987091	46	2	1998-2000	0.64	M-v	3	Williams	39533	1998 QJ ₄₃
1998 QL ₄₃	13.3	0.15	20000226	82.13233	353.32016	7.86303	9.04277	0.0368892	3.0170446	43	2	1998-2000	0.75	M-v	3	Williams	37721	1998 QL ₄₃
1998 QZ ₄₃	13.9	0.15	20000226	81.87086	272.06764	102.56117	3.44488	0.0779273	2.8588796	51	2	1998-2000	0.63	M-v	4	Williams	37722	1998 QZ ₄₃

1998 QA ₄₄	15.3	0.15	20000226	99.33056	52.42151	7.48299	5.65534	0.1593869	2.2230698	78	2	1998-2000	0.63	M-v	4	Williams	39205	1998 QA ₄₄
1998 QF ₄₄	14.6	0.15	20000226	82.62793	40.89167	1.02685	3.58688	0.1528625	2.5880160	80	3	1996-2000	0.60	M-v	3	Williams	39533	1998 QF ₄₄
1998 QJ ₄₄	13.4	0.15	20000226	147.02465	251.54240	23.87981	3.35100	0.1445616	3.1817964	53	3	1991-1999	0.71	M-v	4	Williams	38056	1998 QJ ₄₄
1998 QK ₄₄	14.8	0.15	20000226	129.63935	306.31133	54.05807	1.93277	0.1874537	2.4192645	46	3	1993-2000	0.60	M-v	3	Williams	39533	1998 QK ₄₄
1998 QU ₄₄	14.8	0.15	20000226	115.45127	81.37829	294.21630	2.49840	0.1131252	2.4331186	70	2	1998-2000	0.59	M-v	3	Williams	39533	1998 QU ₄₄
1998 QD ₄₅	14.2	0.15	20000226	108.53283	112.95764	283.58700	5.61858	0.1263215	2.3378295	79	3	1991-2000	0.60	M-v	2	Williams	39533	1998 QD ₄₅
1998 QN ₄₅	14.4	0.15	20000226	315.35053	346.68605	188.62152	12.02433	0.1085719	2.3755371	43	2	1998-2000	0.86	M-v	4	Williams	38782	1998 QN ₄₅
1998 QP ₄₅	13.1	0.15	20000226	303.29842	340.04365	191.65529	12.25780	0.1712547	2.5881559	74	3	1997-2000	0.52	M-v	3	Williams	39533	1998 QP ₄₅
1998 QV ₄₅	14.2	0.15	20000226	67.66238	247.10704	187.78209	8.63771	0.3136896	2.6890722	69	2	1998-2000	0.61	M-v	4	Williams	39205	1998 QV ₄₅
1998 QB ₄₇	14.6	0.15	20000226	88.94560	39.58279	13.04950	5.69339	0.1857085	2.4295421	57	2	1998-2000	0.63	M-v	4	Williams	39205	1998 QB ₄₇
1998 QS ₄₇	15.4	0.15	20000226	130.74069	207.41157	156.23161	3.88821	0.2109973	2.4029870	41	2	1998-2000	0.61	M-v	4	Williams	39533	1998 QS ₄₇
1998 QT ₄₇	13.8	0.15	20000226	59.49380	267.48623	161.40815	12.93525	0.1685970	2.6408782	76	2	1998-2000	0.64	M-v	3	Williams	39533	1998 QT ₄₇
1998 QY ₄₇	14.8	0.15	20000226	77.99816	248.76373	178.41838	6.28780	0.0704696	2.3187352	61	3	1997-2000	0.63	M-v	2	Williams	39534	1998 QY ₄₇
1998 QB ₄₈	13.6	0.15	20000226	212.30994	76.75474	186.52720	9.19254	0.0102475	2.5709458	55	4	1980-2000	0.51	M-v	2	Williams	39534	1998 QB ₄₈
1998 QD ₄₈	15.6	0.15	20000226	115.86377	178.48572	225.79650	3.88107	0.1789661	2.2585943	54	4	1988-2000	0.82	M-v	2	Williams	39534	1998 QD ₄₈
1998 QF ₄₈	14.1	0.15	20000226	192.39808	356.29455	298.59202	6.37902	0.1315097	2.3248326	67	2	1998-2000	0.66	M-v	3	Williams	38783	1998 QF ₄₈
1998 QS ₄₈	15.0	0.15	20000226	133.92892	55.10297	329.20958	5.42006	0.0611131	2.1575629	61	2	1998-2000	0.66	M-v	4	Williams	39206	1998 QS ₄₈
1998 QZ ₄₈	15.1	0.15	20000226	164.89841	176.51422	155.23273	2.96030	0.1657381	2.2723073	44	2	1998-2000	0.48	M-v	4	Williams	38481	1998 QZ ₄₈
1998 QN ₄₉	13.4	0.15	20000226	153.62324	187.74313	78.59882	3.20328	0.1674210	3.1821982	69	2	1998-1999	0.64	M-v	4	Williams	37726	1998 QN ₄₉
1998 QJ ₅₀	15.5	0.15	20000226	123.68781	27.61757	3.35920	5.55431	0.1303311	2.2181961	60	2	1998-2000	0.69	M-v	4	Williams	39207	1998 QJ ₅₀
1998 QF ₅₀	15.3	0.15	20000226	110.79037	333.30267	60.02397	3.34131	0.1150832	2.3176139	56	3	1997-2000	0.67	M-v	3	Williams	39534	1998 QF ₅₀
1998 QT ₅₀	13.0	0.15	20000226	130.35268	138.67348	146.48729	10.22931	0.3116394	3.0989916	56	3	1987-2000	0.70	M-v	3	Williams	37727	1998 QT ₅₀
1998 QV ₅₀	14.7	0.15	20000226	139.31835	268.46196	98.19162	2.33640	0.2199815	2.2955515	64	3	1991-2000	0.70	M-v	2	Williams	39207	1998 QV ₅₀
1998 QW ₅₀	13.8	0.15	20000226	34.25587	78.07735	351.96382	15.51673	0.2084913	3.1585030	56	3	1995-2000	0.67	M-v	2	Williams	39534	1998 QW ₅₀
1998 QC ₅₁	14.6	0.15	20000226	117.11511	238.75491	159.32184	4.30599	0.1277081	2.2450007	83	3	1993-2000	0.59	M-v	3	Williams	39534	1998 QC ₅₁
1998 QK ₅₁	14.5	0.15	20000226	340.40243	347.50735	176.33468	5.62717	0.0392197	2.2700277	82	2	1998-2000	0.61	M-v	3	Williams	39534	1998 QK ₅₁
1998 QN ₅₁	14.8	0.15	20000226	298.01684	276.82456	300.09325	2.99539	0.0071928	2.1632827	80	2	1998-2000	0.58	M-v	4	Williams	39534	1998 QN ₅₁
1998 QQ ₅₁	14.5	0.15	20000226	87.52900	107.27451	308.91665	5.56762	0.1245634	2.4150243	51	2	1998-2000	0.54	M-v	3	Williams	39207	1998 QQ ₅₁
1998 QT ₅₁	14.0	0.15	20000226	179.30934	355.51595	316.79056	6.45762	0.1492905	2.3044793	96	4	1935-2000	0.63	M-v	2	Williams	39534	1998 QT ₅₁
1998 QC ₅₂	13.2	0.15	20000226	310.54802	345.21305	181.30205	22.08690	0.0108808	2.5944046	68	4	1973-2000	0.82	M-v	2	Williams	38783	1998 QC ₅₂
1998 QH ₅₂	13.7	0.15	20000226	343.10982	190.27367	319.19931	7.55507	0.0547167	2.4548663	93	2	1998-2000	0.60	M-v	3	Williams	39534	1998 QH ₅₂
1998 QU ₅₂	13.4	0.15	20000226	83.45793	106.71973	271.69223	7.49983	0.1180395	3.0308271	68	2	1998-2000	0.56	M-v	3	Williams	38783	1998 QU ₅₂
1998 QY ₅₂	14.7	0.15	20000226	224.88713	346.26970	280.09023	7.38679	0.1427045	2.3035409	38	2	1998-2000	0.58	M-v	4	Williams	38481	1998 QY ₅₂
1998 QN ₅₃	12.2	0.15	20000226	195.91153	29.53053	216.45846	11.28695	0.2046414	3.1118944	103	2	1998-2000	0.68	M-v	3	Williams	39534	1998 QN ₅₃
1998 QE ₅₄	13.7	0.15	20000226	299.50012	254.28751	311.73137	5.32102	0.1283924	2.3194774	107	4	1972-2000	0.64	M-v	2	Williams	38783	1998 QE ₅₄
1998 QF ₅₄	15.4	0.15	20000226	145.46498	165.84680	209.00364	6.18224	0.1197054	2.2499084	55	4	1983-2000	0.68	M-v	3	Williams	39208	1998 QF ₅₄
1998 QK ₅₄	13.7	0.15	20000226	95.90114	107.99286	272.62691	3.36057	0.0809341	2.7825455	73	2	1998-2000	0.60	M-v	3	Williams	38783	1998 QK ₅₄
1998 QT ₅₄	13.9	0.15	20000226	79.29267	225.90419	203.88225	5.58822	0.0648426	2.4002421	63	2	1998-2000	0.55	M-v	3	Williams	39534	1998 QT ₅₄
1998 QZ ₅₄	14.1	0.15	20000226	54.77033	129.21481	329.45445	6.11890	0.1111503	2.4466789	115	3	1996-2000	0.71	M-v	2	Williams	39534	1998 QZ ₅₄
1998 QH ₅₅	14.9	0.15	20000226	111.11065	74.66873	340.29853	5.70858	0.0574436	2.2344750	93	3	1991-2000	0.73	M-v	3	Williams	39534	1998 QH ₅₅
1998 QM ₅₅	15.0	0.15	20000226	117.67559	265.34328	169.12468	0.65580	0.1012991	2.1763920	40	3	1982-2000	0.67	M-v	3	Williams	34534	1998 QM ₅₅
1998 QV ₅₅	14.4	0.15	20000226	85.45221	68.19652	349.22188	3.24925	0.2679059	2.5742997	61	2	1998-2000	0.67	M-v	4	Williams	39208	1998 QV ₅₅
1998 QZ ₅₅	13.8	0.15	20000226	101.68724	72.36463	299.04562	2.70217	0.1321702	2.7679592	82	2	1998-2000	0.59	M-v	3	Williams	39534	1998 QZ ₅₅
1998 QC ₅₆	14.5	0.15	20000226	100.83322	46.97071	2.04120	31.81998	0.3052833	2.6319920	56	2	1998-2000	0.72	M-v	3	Williams	39208	1998 QC ₅₆
1998 QG ₅₆	13.9	0.15	20000226	127.15312	28.91790	358.30225	16.97453	0.2260730	2.5477568	53	2	1998-2000	0.56	M-v	3	Williams	39208	1998 QG ₅₆
1998 QS ₅₆	14.2	0.15	20000226	57.86057	233.47918	167.23354	1.36081	0.1800427	3.2078582	32	2	1998-2000	0.52	M-v	3	Williams	38482	1998 QS ₅₆
1998 QX ₅₇	14.6	0.15	20000226	68.21205	267.66765	177.06172	3.35786	0.1297905	2.3683748	92	3	1971-2000	0.61	M-v	2	Williams	39534	1998 QX ₅₇
1998 QC ₅₈	15.5	0.15	20000226	115.12197	211.49633	181.35405	1.02315	0.1859125	2.3920295	89	3	1995-2000	0.60	M-v	3	Williams	39534	1998 QC ₅₈
1998 QK ₆₁	14.4	0.15	20000226	4.03270	339.90502	158.10255	6.81960	0.0353440	2.2849690	112	2	1998-2000	0.50	M-v	3	Williams	39534	1998 QK ₆₁
1998 QW ₆₂	13.8	0.15	20000226	7.74076	296.71510	169.49872	22.28880	0.1154944	2.5495099	53	3	1994-2000	0.57	M-v	3	Williams	38483	1998 QW ₆₂
1998 QG ₆₃	15.6	0.15	20000226	189.36973	309.48338	12.71967	6.45293	0.0822891	2.1556675	56	2	1998-2000	0.47	M-v	3	Williams	39209	1998 QG ₆₃
1998 QK ₆₃	16.0	0.15	20000226	138.86974	184.29107	211.01592	5.15185	0.1309812	2.1317802	87	3	1995-2000	0.61	M-v	2	Williams	35631	1998 QK ₆₃
1998 QJ ₇₀	12.1	0.15	20000226	71.54773	87.12103	289.32952	16.98364	0.2074822	3.1955398	96	2	1998-2000	0.63	M-v	3	Williams	38784	1998 QJ ₇₀

1998 QL ₇₀	13.9	0.15	20000226	32.51718	209.03110	204.87917	21.65813	0.0945192	3.1488412	36	2	1998-2000	0.66	M-v	3	Williams	39209	1998 QL ₇₀
1998 QU ₇₀	14.9	0.15	20000226	58.58310	196.08572	230.63282	10.27113	0.1406897	2.5895333	39	3	1997-2000	0.84	M-v	3	Williams	39534	1998 QU ₇₀
1998 QX ₇₀	13.8	0.15	20000226	63.42317	129.15354	263.60620	9.53405	0.1267815	2.9863333	53	2	1998-2000	0.62	M-v	3	Williams	38784	1998 QX ₇₀
1998 QE ₇₁	13.6	0.15	20000226	207.30051	24.59144	225.27450	7.38319	0.2337832	2.3955909	77	4	1953-2000	0.58	M-v	2	Williams	37732	1998 QE ₇₁
1998 QU ₇₁	14.3	0.15	20000226	66.98453	145.54360	274.69465	9.56070	0.1737477	2.6083970	56	2	1998-2000	0.65	M-v	3	Williams	39534	1998 QU ₇₁
1998 QL ₇₃	13.3	0.15	20000226	353.20824	221.86115	237.13172	9.42705	0.0623637	3.0455660	86	2	1998-2000	0.62	M-v	3	Williams	39534	1998 QL ₇₃
1998 QV ₇₃	12.9	0.15	20000226	13.06087	214.58868	260.51779	14.23888	0.1792677	2.6495398	63	3	1990-2000	0.65	M-v	2	Williams	38784	1998 QV ₇₃
1998 QB ₇₅	13.5	0.15	20000226	95.03769	103.64168	294.98052	11.61121	0.1785155	2.5456962	86	3	1986-2000	0.60	M-v	2	Williams	39534	1998 QB ₇₅
1998 QC ₇₅	13.4	0.15	20000226	123.44732	63.44615	238.14662	9.01946	0.0969006	3.4208704	77	2	1998-1999	0.74	M-v	4	Williams	38058	1998 QC ₇₅
1998 QM ₇₆	12.5	0.15	20000226	298.89842	291.61040	245.04944	9.92196	0.1340466	2.6400539	97	3	1990-2000	0.54	M-v	2	Williams	39534	1998 QM ₇₆
1998 QT ₇₆	14.5	0.15	20000226	322.40655	273.16653	275.02620	5.92423	0.0860175	2.1952831	83	2	1998-2000	0.56	M-v	3	Williams	39534	1998 QT ₇₆
1998 QV ₇₇	14.7	0.15	20000226	101.72454	55.52378	325.86124	12.97334	0.1649607	2.6889645	44	2	1998-2000	0.65	M-v	3	Williams	39534	1998 QV ₇₇
1998 QY ₇₇	14.5	0.15	20000226	33.33045	219.37162	260.62045	6.31053	0.0567373	2.2922853	71	3	1995-2000	0.61	M-v	3	Williams	39534	1998 QY ₇₇
1998 QD ₇₉	13.5	0.15	20000226	67.87347	188.20627	176.73334	11.52740	0.1502707	3.0273933	56	2	1998-2000	0.61	M-v	3	Williams	37734	1998 QD ₇₉
1998 QP ₇₉	14.1	0.15	20000226	96.52794	196.08529	197.13368	8.36616	0.1001941	2.2817962	72	3	1997-2000	0.59	M-v	2	Williams	39210	1998 QP ₇₉
1998 QF ₈₀	13.2	0.15	20000226	146.95863	41.19029	293.87838	11.69603	0.2654804	2.3440183	111	3	1955-2000	0.56	M-v	2	Williams	39534	1998 QF ₈₀
1998 QT ₈₄	13.9	0.15	20000226	66.44769	139.82439	253.96425	13.67237	0.2067268	3.0515840	46	2	1998-2000	0.65	M-v	3	Williams	38784	1998 QT ₈₄
1998 QN ₈₅	13.4	0.15	20000226	332.46293	232.43830	268.17181	11.65152	0.1134488	2.6923286	85	2	1998-2000	0.58	M-v	3	Williams	39534	1998 QN ₈₅
1998 QG ₈₆	13.4	0.15	20000226	30.63856	169.42545	286.43314	12.14142	0.1916203	2.7725871	109	3	1997-2000	0.60	M-v	2	Williams	39535	1998 QG ₈₆
1998 QN ₈₆	13.2	0.15	20000226	73.84608	118.47117	286.27326	8.08336	0.1597117	2.7592286	114	3	1989-2000	0.61	M-v	2	Williams	39535	1998 QN ₈₆
1998 QR ₈₆	13.7	0.15	20000226	111.17061	61.20990	299.85702	7.86050	0.2663860	2.7174957	73	2	1998-2000	0.67	M-v	3	Williams	39535	1998 QR ₈₆
1998 QW ₈₆	13.5	0.15	20000226	140.00780	50.12506	285.03802	13.26614	0.1893904	2.5685208	92	2	1998-2000	0.62	M-v	3	Williams	39535	1998 QW ₈₆
1998 QX ₈₆	13.2	0.15	20000226	57.26971	163.32720	244.26486	15.07094	0.1648577	3.0848538	69	2	1998-2000	0.74	M-v	3	Williams	39210	1998 QX ₈₆
1998 QA ₈₇	13.9	0.15	20000226	36.52587	182.44153	263.98349	11.54968	0.1335575	2.7648658	53	2	1998-2000	0.57	M-v	3	Williams	38784	1998 QA ₈₇
1998 QA ₈₇	13.7	0.15	20000226	78.80727	117.64933	265.22300	10.37689	0.1173179	2.9958429	55	2	1998-2000	0.71	M-v	3	Williams	38784	1998 QA ₈₇
1998 QA ₈₈	12.8	0.15	20000226	135.86311	36.91043	276.75532	9.75985	0.0950415	2.9841923	68	2	1998-2000	0.60	M-v	3	Williams	39535	1998 QA ₈₈
1998 QV ₈₈	14.4	0.15	20000226	152.79770	72.89872	262.30166	7.42237	0.2778802	2.3850785	53	6	1954-2000	0.73	M-v	2	Williams	39535	1998 QV ₈₈
1998 QM ₉₀	14.0	0.15	20000226	67.58439	168.79436	266.37096	13.06935	0.0317872	2.3933294	55	2	1998-2000	0.66	M-v	3	Williams	39535	1998 QM ₉₀
1998 QP ₉₀	14.8	0.15	20000226	157.00495	353.39986	12.93112	9.50794	0.1682056	2.1647969	111	3	1997-2000	0.74	M-v	3	Williams	39535	1998 QP ₉₀
1998 QC ₉₁	13.0	0.15	20000226	189.93198	229.50598	37.32384	10.94877	0.0646811	2.9743080	45	4	1976-2000	0.59	M-v	2	Williams	37739	1998 QC ₉₁
1998 QO ₉₁	13.3	0.15	20000226	157.50979	165.44415	166.08406	14.01099	0.1756184	2.5463594	54	2	1998-2000	0.64	M-v	3	Williams	39535	1998 QO ₉₁
1998 QR ₉₁	15.2	0.15	20000226	151.44760	284.10952	102.28441	0.58647	0.1952061	2.1877900	84	4	1984-2000	0.70	M-v	2	Williams	38485	1998 QR ₉₁
1998 QS ₉₁	14.6	0.15	20000226	138.64263	18.63935	5.81819	8.45064	0.2383284	2.3393587	82	3	1993-2000	0.59	M-v	3	Williams	39535	1998 QS ₉₁
1998 QV ₉₁	14.9	0.15	20000226	127.04995	224.41557	175.20332	2.26318	0.2090677	2.3766390	68	3	1976-2000	0.72	M-v	3	Williams	39535	1998 QV ₉₁
1998 QY ₉₁	14.8	0.15	20000226	133.58820	347.93849	50.41957	3.47676	0.2392470	2.3126275	41	4	1991-2000	0.73	M-v	2	Williams	36085	1998 QY ₉₁
1998 QF ₉₂	15.1	0.15	20000226	252.22966	283.08976	23.16396	21.88917	0.0773008	1.9386266	77	3	1976-2000	0.69	M-v	1	Williams	39211	1998 QF ₉₂
1998 QJ ₉₂	15.1	0.15	20000226	137.55041	325.34817	71.63637	3.28180	0.2366212	2.3090660	63	3	1991-2000	0.74	M-v	2	Williams	34020	1998 QJ ₉₂
1998 QL ₉₂	13.6	0.15	20000226	128.42507	226.38234	177.74019	2.01611	0.2126878	2.3745269	109	4	1954-2000	0.61	M-v	2	Williams	39535	1998 QL ₉₂
1998 QM ₉₂	14.0	0.15	20000226	128.32225	101.40707	280.70231	3.62367	0.2520737	2.5724596	52	4	1981-2000	0.79	M-v	2	Williams	39535	1998 QM ₉₂
1998 QN ₉₂	12.9	0.15	20000226	117.20631	1.30014	8.50665	13.79957	0.1677478	2.9677540	73	3	1992-2000	0.68	M-v	3	Williams	39535	1998 QN ₉₂
1998 QS ₉₂	13.2	0.15	20000226	175.36707	251.88659	91.97291	6.54806	0.2216467	2.2719671	79	4	1991-2000	0.49	M-v	2	Williams	39535	1998 QS ₉₂
1998 QU ₉₂	13.7	0.15	20000226	145.56807	305.87389	70.44786	6.77883	0.1615375	2.3954985	76	5	1976-2000	0.67	M-v	2	Williams	39535	1998 QU ₉₂
1998 QH ₉₃	13.4	0.15	20000226	79.71216	212.27610	245.19256	11.20547	0.2260598	2.6638070	66	7	1972-2000	0.74	M-v	2	Williams	35713	1998 QH ₉₃
1998 QP ₉₃	13.4	0.15	20000226	146.62164	269.27054	108.86611	6.95982	0.1206346	2.4127356	99	3	1982-2000	0.65	M-v	2	Williams	39535	1998 QP ₉₃
1998 QR ₉₃	12.9	0.15	20000226	120.84686	333.03540	58.04874	13.93797	0.1654506	2.6832263	80	3	1989-2000	0.60	M-v	2	Williams	39535	1998 QR ₉₃
1998 QC ₉₅	12.9	0.15	20000226	243.57403	256.22921	304.26475	12.78473	0.2265956	2.6419370	54	2	1998-2000	0.52	M-v	3	Williams	38785	1998 QC ₉₅
1998 QK ₉₅	13.1	0.15	20000226	65.23694	135.97582	254.65134	9.39286	0.1184741	2.9799121	70	2	1998-2000	0.47	M-v	3	Williams	38785	1998 QK ₉₅
1998 QA ₉₈	13.4	0.15	20000226	18.83787	187.33577	210.93266	6.59360	0.1618488	2.4516847	118	3	1997-2000	0.69	M-v	2	Williams	39535	1998 QA ₉₈
1998 QP ₉₈	14.7	0.15	20000226	139.44460	133.39579	356.19576	6.62538	0.2182415	2.3791190	49	4	1987-2000	0.71	M-v	2	Williams	39535	1998 QP ₉₈
1998 QS ₉₈	14.2	0.15	20000226	195.53571	287.91140	58.61324	3.45692	0.1568171	2.1672981	102	4	1982-2000	0.67	M-v	2	Williams	39535	1998 QS ₉₈
1998 QD ₉₉	13.0	0.15	20000226	84.51819	283.92991	93.27855	3.29910	0.0705885	2.9087127	111	3	1989-2000	0.68	M-v	2	Williams	38785	1998 QD ₉₉
1998 QF ₉₉	15.3	0.15	20000226	44.02664	71.03011	38.24136	3.94377	0.0395499	2.2308448	60	2	1998-2000	0.76	M-v	4	Williams	39211	1998 QF ₉₉
1998 QE ₁₀₀	13.7	0.15	20000226	84.60156	358.09820	71.17655	3.22227	0.1887811	2.4005580	90	3	1981-2000	0.67	M-v	2	Williams	39212	1998 QE ₁₀₀

1998 QF ₁₀₀	14.4	0.15	20000226	45.17040	294.36468	154.80183	12.23745	0.1581604	2.6365423	86	2	1998-2000	0.61	M-v	3	Williams	39535	1998 QF ₁₀₀
1998 QN ₁₀₀	15.3	0.15	20000226	120.23473	38.03566	5.02259	5.10438	0.1852065	2.2513526	86	2	1998-2000	0.61	M-v	4	Williams	39212	1998 QN ₁₀₀
1998 QW ₁₀₀	12.9	0.15	20000226	302.56545	87.96526	82.22841	2.97136	0.0203378	2.7042313	72	2	1998-2000	0.52	M-v	3	Williams	38785	1998 QW ₁₀₀
1998 QA ₁₀₁	15.5	0.15	20000226	96.26276	263.41781	132.46054	3.93671	0.2086739	2.5874619	28	2	1998-2000	0.78	M-v	4	Williams	39212	1998 QA ₁₀₁
1998 QH ₁₀₁	15.0	0.15	20000226	54.13570	1.70260	103.07899	2.08480	0.0233618	2.1571385	59	3	1997-2000	0.55	M-v	3	Williams	39535	1998 QH ₁₀₁
1998 QQ ₁₀₁	12.5	0.15	20000226	79.54966	213.08785	165.12843	16.84635	0.1915718	3.0860384	87	3	1971-2000	0.66	M-v	2	Williams	38785	1998 QQ ₁₀₁
1998 QB ₁₀₂	14.6	0.15	20000226	44.17857	320.10246	147.30934	5.75338	0.1104000	2.3232368	54	2	1998-2000	0.52	M-v	3	Williams	39212	1998 QB ₁₀₂
1998 QD ₁₀₂	13.4	0.15	20000226	323.54782	349.55876	155.62956	12.81220	0.1366215	2.8616882	56	2	1998-2000	0.70	M-v	3	Williams	39535	1998 QD ₁₀₂
1998 QG ₁₀₂	13.6	0.15	20000226	34.13403	293.58740	142.28045	5.87932	0.0700389	2.8369300	78	2	1998-2000	0.62	M-v	3	Williams	38785	1998 QG ₁₀₂
1998 QN ₁₀₂	14.5	0.15	20000226	56.94960	67.02490	24.27246	3.48001	0.1498787	2.4271007	72	2	1998-2000	0.60	M-v	3	Williams	39535	1998 QN ₁₀₂
1998 QR ₁₀₂	14.8	0.15	20000226	80.82709	358.88572	59.52659	4.17017	0.0622757	2.3957802	73	2	1998-2000	0.64	M-v	3	Williams	39535	1998 QR ₁₀₂
1998 QF ₁₀₃	13.8	0.15	20000226	106.38729	325.34777	16.18844	10.15438	0.0877800	3.1536037	51	2	1998-1999	0.62	M-v	4	Williams	38487	1998 QF ₁₀₃
1998 QL ₁₀₃	14.9	0.15	20000226	3.18366	73.31786	83.30826	4.37288	0.0591020	2.1874515	84	4	1992-2000	0.62	M-v	3	Williams	39535	1998 QL ₁₀₃
1998 QU ₁₀₃	13.7	0.15	20000226	68.32881	303.11356	107.19337	4.97770	0.0970605	2.7840415	99	3	1980-2000	0.60	M-v	2	Williams	38785	1998 QU ₁₀₃
1998 QD ₁₀₄	13.7	0.15	20000226	51.68012	324.26532	137.26722	8.21901	0.2279500	2.5449335	78	2	1998-2000	0.57	M-v	3	Williams	39535	1998 QD ₁₀₄
1998 QF ₁₀₄	13.3	0.15	20000226	190.08480	272.25729	13.21658	14.94440	0.1004719	2.5356280	90	5	1978-2000	0.74	M-v	3	Williams	39535	1998 QF ₁₀₄
1998 QS ₁₀₄	14.8	0.15	20000226	198.07610	145.56468	142.36762	7.14513	0.1282998	2.3970713	42	2	1998-2000	0.73	M-v	4	Williams	38488	1998 QS ₁₀₄
1998 QL ₁₀₅	14.6	0.15	20000226	332.69818	105.47314	69.82570	5.00850	0.1041741	2.2293055	80	2	1998-2000	0.68	M-v	3	Williams	39535	1998 QL ₁₀₅
1998 QP ₁₀₅	14.3	0.15	20000226	58.40832	24.04929	73.19749	4.44644	0.1159166	2.2958118	103	2	1998-2000	0.62	M-v	3	Williams	39535	1998 QP ₁₀₅
1998 QW ₁₀₅	14.8	0.15	20000226	95.86413	268.32070	138.42749	9.80731	0.1686175	2.4639776	42	4	1993-2000	0.63	M-v	2	Williams	39535	1998 QW ₁₀₅
1998 QM ₁₀₆	13.5	0.15	20000226	121.57403	326.10014	14.31371	11.33214	0.1656213	2.7467286	59	3	1989-2000	0.71	M-v	3	Williams	38785	1998 QM ₁₀₆
1998 QU ₁₀₆	13.4	0.15	20000226	77.06385	325.08925	68.78323	4.52782	0.1706918	2.8763577	85	2	1998-2000	0.57	M-v	3	Williams	38488	1998 QU ₁₀₆
1998 QX ₁₀₆	15.3	0.15	20000226	104.52140	25.64087	28.61943	7.22060	0.1955457	2.3058753	44	3	1993-2000	0.81	M-v	4	Williams	39535	1998 QX ₁₀₆
1998 RB	14.2	0.15	20000226	234.18724	45.24293	197.42566	15.27002	0.0130139	2.5635970	77	4	1986-2000	0.70	M-v	2	Williams	39213	1998 RB
1998 RG	14.0	0.15	20000226	29.04024	326.93765	126.19076	10.08287	0.1238383	2.7643858	75	2	1998-2000	0.47	M-v	3	Williams	38785	1998 RG
1998 RH	14.3	0.15	20000226	304.76584	89.97800	107.30623	7.41525	0.0574582	2.3484759	63	2	1998-2000	0.55	M-v	3	Williams	38785	1998 RH
1998 RS	13.4	0.15	20000226	81.58288	193.60560	185.99889	15.87268	0.1065005	3.0681590	79	2	1998-2000	0.64	M-v	3	Williams	39535	1998 RS
1998 RU	15.3	0.15	20000226	80.59798	75.83123	338.54368	6.75193	0.0890880	2.3845080	53	3	1993-2000	0.63	M-v	2	Williams	39214	1998 RU
1998 RJ ₁	13.1	0.15	20000226	37.14765	259.39148	168.69924	1.14255	0.2192368	3.1943825	116	3	1993-2000	0.63	M-v	2	Williams	38785	1998 RJ ₁
1998 RV ₁	13.6	0.15	20000226	43.65775	186.60311	260.36912	8.16727	0.1276791	2.7760798	53	3	1997-2000	0.54	M-v	2	Williams	39214	1998 RV ₁
1998 RA ₂	13.0	0.15	20000226	339.42179	279.78085	233.72072	10.48405	0.1374196	2.6654423	58	2	1998-2000	0.57	M-v	3	Williams	39535	1998 RA ₂
1998 RH ₂	14.5	0.15	20000226	137.21557	236.86510	99.10682	4.46027	0.2033654	2.6397939	47	2	1998-2000	0.61	M-v	4	Williams	38489	1998 RH ₂
1998 RQ ₂	15.1	0.15	20000226	103.15339	46.42654	17.71966	6.13000	0.0572169	2.1464419	105	4	1995-2000	0.62	M-v	1	Williams	39536	1998 RQ ₂
1998 RM ₃	13.7	0.15	20000226	118.71160	45.16470	350.11838	24.92220	0.1830808	2.2813557	106	3	1993-2000	0.64	M-v	2	Williams	39215	1998 RM ₃
1998 RJ ₄	16.1	0.15	20000226	238.29962	123.69042	182.28209	21.93135	0.0756193	1.9438774	68	3	1981-2000	0.61	M-v	2	Williams	39536	1998 RJ ₄
1998 RV ₄	15.8	0.15	20000226	172.93297	206.95817	169.34851	23.44915	0.0869729	1.9731615	31	3	1997-2000	0.68	M-v	3	Williams	35713	1998 RV ₄
1998 RC ₅	14.3	0.15	20000226	70.98000	81.93265	350.91779	6.10906	0.2339582	2.5615731	72	4	1990-2000	0.72	M-v	3	Williams	39536	1998 RC ₅
1998 RQ ₅	15.2	0.15	20000226	193.96326	308.21327	13.34502	0.81581	0.0378454	2.2460048	84	3	1991-2000	0.67	M-v	4	Williams	39536	1998 RQ ₅
1998 RU ₅	14.2	0.15	20000226	95.75081	228.77865	176.59413	9.83785	0.0873955	2.5735934	62	2	1998-2000	0.61	M-v	3	Williams	39536	1998 RU ₅
1998 RJ ₆	14.7	0.15	20000226	275.62695	223.98885	346.05572	4.63077	0.0824210	2.3126231	66	2	1998-2000	0.58	M-v	4	Williams	38786	1998 RJ ₆
1998 RA ₇	15.6	0.15	20000226	356.52225	347.69154	165.30489	2.23731	0.0704023	2.1448987	58	2	1998-2000	0.41	M-v	4	Williams	39216	1998 RA ₇
1998 RC ₈	14.0	0.15	20000226	100.52248	34.08825	3.93837	5.16422	0.2113653	2.6196665	76	3	1981-2000	0.63	M-v	3	Williams	39216	1998 RC ₈
1998 RL ₁₅	15.0	0.15	20000226	31.95971	289.96595	187.47096	0.72942	0.1370267	2.3887360	67	2	1998-2000	0.48	M-v	3	Williams	39536	1998 RL ₁₅
1998 RH ₁₆	13.8	0.15	20000226	109.03867	63.40402	229.70312	4.52753	0.1039870	3.2236811	63	4	1982-1999	0.64	M-v	2	Williams	38786	1998 RH ₁₆
1998 RN ₂₂	14.4	0.15	20000226	66.38760	252.04331	173.13217	3.47068	0.1912661	2.5687104	92	2	1998-2000	0.53	M-v	3	Williams	39536	1998 RN ₂₂
1998 RW ₃₂	16.5	0.15	20000226	131.15530	236.69543	154.87763	0.27233	0.1378192	2.1709130	30	4	1994-2000	0.57	M-v	2	Williams	39536	1998 RW ₃₂
1998 RK ₃₄	15.1	0.15	20000226	115.90575	11.50858	24.43592	6.52278	0.0782184	2.2317671	35	2	1998-2000	0.57	M-v	4	Williams	39218	1998 RK ₃₄
1998 RM ₃₄	14.6	0.15	20000226	328.85619	35.04009	140.05852	7.38458	0.0349112	2.2473356	105	3	1997-2000	0.52	M-v	3	Williams	39536	1998 RM ₃₄
1998 RQ ₃₄	14.2	0.15	20000226	16.48207	119.89621	8.37378	9.75216	0.1467955	2.3666005	62	3	1982-2000	0.70	M-v	3	Williams	39218	1998 RQ ₃₄
1998 RE ₃₇	14.2	0.15	20000226	65.55953	115.33741	289.48091	5.11896	0.2192498	3.0337454	71	2	1998-2000	0.66	M-v	3	Williams	39536	1998 RE ₃₇
1998 RP ₃₇	13.1	0.15	20000226	242.31787	282.19365	274.23706	4.30577	0.0828402	3.2275036	67	2	1998-1999	0.59	M-v	3	Williams	37749	1998 RP ₃₇
1998 RO ₃₈	14.2	0.15	20000226	240.84862	247.69272	6.75519	3.78852	0.1267232	2.2104789	70	3	1988-2000	0.75	M-v	3	Williams	38786	1998 RO ₃₈
1998 RV ₃₉	15.4	0.15	20000226	130.18396	209.10372	138.78561	6.78375	0.1494657	2.5495338	25	2	1998-2000	0.57	M-v	4	Williams	38491	1998 RV ₃₉

1998 RJ ₄₀	14.9	0.15	20000226	24.88213	350.07827	126.07227	7.17782	0.0567080	2.3343548	93	2	1998-2000	0.62	M-v	3	Williams	39536	1998 RJ ₄₀
1998 RV ₄₂	13.4	0.15	20000226	117.74565	118.43906	231.54455	6.25848	0.0738467	2.7734498	82	2	1998-2000	0.53	M-v	3	Williams	38786	1998 RV ₄₂
1998 RO ₄₄	13.0	0.15	20000226	288.34424	97.16824	61.25116	5.93941	0.0997359	3.2060874	107	3	1984-2000	0.58	M-v	3	Williams	39536	1998 RO ₄₄
1998 RP ₄₄	14.3	0.15	20000226	28.11569	332.31539	140.79787	8.25455	0.0625394	2.3843276	85	2	1998-2000	0.61	M-v	3	Williams	39536	1998 RP ₄₄
1998 RA ₄₅	13.6	0.15	20000226	43.17022	293.18381	164.25001	12.36500	0.2401669	2.6855306	113	2	1998-2000	0.56	M-v	3	Williams	39536	1998 RA ₄₅
1998 RQ ₄₆	16.3	0.15	20000226	163.21029	21.64949	312.39689	3.58626	0.2578413	2.2868433	39	3	1991-2000	0.63	M-v	3	Williams	39218	1998 RQ ₄₆
1998 RA ₄₇	15.6	0.15	20000226	52.79771	261.08872	209.97352	7.10398	0.1016478	2.2281074	47	3	1997-2000	0.76	M-v	3	Williams	39536	1998 RA ₄₇
1998 RK ₄₇	14.1	0.15	20000226	188.52028	351.59247	311.70649	6.22198	0.1364799	2.3330246	117	4	1987-2000	0.71	M-v	2	Williams	39536	1998 RK ₄₇
1998 RR ₄₇	15.2	0.15	20000226	100.84905	90.85491	317.08947	5.34654	0.1388364	2.4000673	60	3	1995-2000	0.62	M-v	3	Williams	39536	1998 RR ₄₇
1998 RU ₄₇	13.2	0.15	20000226	327.00671	297.90640	198.38240	12.43222	0.0519084	2.9804382	69	3	1996-2000	0.66	M-v	3	Williams	38786	1998 RU ₄₇
1998 RJ ₄₈	13.6	0.15	20000226	305.91573	181.32673	345.05243	11.24487	0.0597236	2.7731639	63	3	1996-2000	0.72	M-v	3	Williams	38786	1998 RJ ₄₈
1998 RQ ₄₈	16.2	0.15	20000226	97.55189	86.66307	319.25425	1.95229	0.2677163	2.5574536	36	2	1998-2000	0.70	M-v	4	Williams	39219	1998 RQ ₄₈
1998 RV ₄₈	15.6	0.15	20000226	76.17333	182.25928	235.70647	1.90305	0.0758234	2.5196521	33	3	1995-2000	0.79	M-v	2	Williams	39536	1998 RV ₄₈
1998 RJ ₅₀	13.7	0.15	20000226	61.39620	283.10447	126.40096	1.82844	0.2105744	3.0584753	91	4	1973-2000	0.60	M-v	1	Williams	39536	1998 RJ ₅₀
1998 RV ₅₀	15.3	0.15	20000226	94.77604	168.44785	222.69573	2.47202	0.1020958	2.6203221	30	2	1998-2000	0.71	M-v	4	Williams	38492	1998 RV ₅₀
1998 RK ₅₁	15.4	0.15	20000226	201.68702	5.73968	284.88674	4.76022	0.1611826	2.2820455	29	2	1998-2000	0.66	M-v	6	Williams	38492	1998 RK ₅₁
1998 RA ₅₂	14.6	0.15	20000226	38.93929	48.15111	55.14388	4.21913	0.1720168	2.5597962	80	3	1978-2000	0.57	M-v	3	Williams	39536	1998 RA ₅₂
1998 RF ₅₂	14.8	0.15	20000226	82.47158	40.66757	12.97396	12.71465	0.1675047	2.5706584	47	3	1996-2000	0.56	M-v	3	Williams	39536	1998 RF ₅₂
1998 RD ₅₃	13.1	0.15	20000226	325.22052	138.59214	357.56597	9.80905	0.0477443	2.9905158	60	2	1998-2000	0.54	M-v	3	Williams	38787	1998 RD ₅₃
1998 RT ₅₃	14.8	0.15	20000226	338.35794	287.65078	246.66154	4.79248	0.0457930	2.2528696	59	3	1987-2000	0.69	M-v	3	Williams	39536	1998 RT ₅₃
1998 RL ₅₄	13.6	0.15	20000226	56.00758	116.36324	299.02255	4.91386	0.1690318	3.0864985	66	4	1982-2000	0.55	M-v	1	Williams	38787	1998 RL ₅₄
1998 RM ₅₄	14.7	0.15	20000226	9.93212	216.01960	284.43617	3.86426	0.0399839	2.3220458	60	2	1998-2000	0.60	M-v	3	Williams	39536	1998 RM ₅₄
1998 RV ₅₄	14.9	0.15	20000226	72.82120	118.00775	317.36725	6.29530	0.0836191	2.4265927	56	4	1994-2000	0.70	M-v	1	Williams	39536	1998 RV ₅₄
1998 RZ ₅₄	15.0	0.15	20000226	144.61551	84.01709	300.56193	4.59736	0.1281651	2.1668224	56	3	1989-2000	0.66	M-v	3	Williams	39536	1998 RZ ₅₄
1998 RB ₅₅	14.3	0.15	20000226	356.29613	278.98086	245.43299	5.25897	0.0944722	2.2506108	93	3	1985-2000	0.66	M-v	3	Williams	39536	1998 RB ₅₅
1998 RO ₅₅	14.3	0.15	20000226	340.55082	273.96133	260.67196	4.43101	0.1096856	2.2663491	76	2	1998-2000	0.61	M-v	3	Williams	39220	1998 RO ₅₅
1998 RP ₅₅	14.4	0.15	20000226	174.52168	16.66096	296.84996	4.70195	0.0066825	2.5562561	41	2	1998-2000	0.70	M-v	4	Williams	38787	1998 RP ₅₅
1998 RV ₅₅	14.0	0.15	20000226	100.60848	182.43924	207.40144	7.32745	0.1636362	2.6346832	50	3	1997-2000	0.64	M-v	3	Williams	38493	1998 RV ₅₅
1998 RZ ₅₅	13.7	0.15	20000226	286.10375	267.73200	321.22254	4.01519	0.0907784	2.1657499	146	2	1998-2000	0.53	M-v	3	Williams	39536	1998 RZ ₅₅
1998 RJ ₅₆	14.5	0.15	20000226	109.78899	63.53564	333.00116	5.68987	0.0958552	2.3873146	90	2	1998-2000	0.57	M-v	3	Williams	39536	1998 RJ ₅₆
1998 RN ₅₆	13.6	0.15	20000226	17.44689	145.83834	350.11049	14.19810	0.1530340	2.4014463	88	2	1998-2000	0.52	M-v	3	Williams	39536	1998 RN ₅₆
1998 RQ ₅₆	14.4	0.15	20000226	32.81102	281.28563	194.06969	6.69067	0.0663886	2.3771231	69	2	1998-2000	0.67	M-v	4	Williams	39220	1998 RQ ₅₆
1998 RA ₅₇	14.9	0.15	20000226	128.93008	174.08651	216.35699	1.42621	0.1220107	2.2396446	63	4	1978-2000	0.59	M-v	2	Williams	39536	1998 RA ₅₇
1998 RB ₅₇	14.9	0.15	20000226	18.96607	163.78285	326.45072	2.13609	0.1336645	2.4116887	73	3	1994-2000	0.63	M-v	3	Williams	39536	1998 RB ₅₇
1998 RT ₅₇	15.1	0.15	20000226	40.35965	341.78537	128.72995	3.12944	0.1425599	2.4310972	69	2	1998-2000	0.65	M-v	4	Williams	39536	1998 RT ₅₇
1998 RY ₅₇	15.0	0.15	20000226	209.73687	174.25545	111.41080	1.90005	0.0324804	2.3899113	62	3	1997-2000	0.63	M-v	3	Williams	39536	1998 RY ₅₇
1998 RZ ₅₇	14.3	0.15	20000226	47.94489	107.93465	2.38959	6.30989	0.1148366	2.3131043	92	3	1991-2000	0.61	M-v	2	Williams	39536	1998 RZ ₅₇
1998 RA ₅₈	15.8	0.15	20000226	89.60801	275.77416	154.09255	2.50522	0.1781277	2.3604642	44	3	1995-2000	0.78	M-v	3	Williams	39536	1998 RA ₅₈
1998 RN ₅₈	13.6	0.15	20000226	94.78557	114.63279	275.69318	1.15166	0.1296521	2.6669768	115	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RN ₅₈
1998 RQ ₅₈	12.9	0.15	20000226	180.26409	81.35188	185.72438	9.96909	0.0276257	3.2077696	64	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RQ ₅₈
1998 RS ₅₈	14.7	0.15	20000226	54.53701	100.88322	346.12163	3.13899	0.1916055	2.6555489	57	2	1998-2000	0.53	M-v	4	Williams	39221	1998 RS ₅₈
1998 RS ₅₉	15.4	0.15	20000226	263.60209	293.89926	305.02013	3.81473	0.1085613	2.2720704	44	2	1998-2000	0.69	M-v	4	Williams	38494	1998 RS ₅₉
1998 RF ₆₀	15.0	0.15	20000226	79.45868	107.26602	319.67950	3.39632	0.2230236	2.6207731	35	3	1991-2000	0.63	M-v	3	Williams	39537	1998 RF ₆₀
1998 RG ₆₁	14.5	0.15	20000226	147.11874	26.43395	344.96369	4.41828	0.1632595	2.2465909	54	2	1998-2000	0.71	M-v	4	Williams	39222	1998 RG ₆₁
1998 RP ₆₁	14.4	0.15	20000226	76.39236	78.95611	348.92245	7.60962	0.3119809	2.7687305	63	2	1998-2000	0.67	M-v	4	Williams	39222	1998 RP ₆₁
1998 RQ ₆₁	14.2	0.15	20000226	69.94986	103.13062	329.68972	3.96922	0.1534024	2.5978382	90	3	1996-2000	0.60	M-v	2	Williams	39537	1998 RQ ₆₁
1998 RU ₆₁	14.6	0.15	20000226	351.74754	184.32501	338.46390	3.45472	0.0816439	2.3050492	72	3	1991-2000	0.66	M-v	4	Williams	39537	1998 RU ₆₁
1998 RD ₆₂	13.8	0.15	20000226	100.98597	85.24799	345.97307	4.14663	0.1667687	2.2466860	70	3	1991-2000	0.73	M-v	2	Williams	39537	1998 RD ₆₂
1998 RL ₆₂	13.9	0.15	20000226	12.91888	308.39670	175.40839	13.42316	0.1059029	2.5669141	71	2	1998-2000	0.72	M-v	3	Williams	39223	1998 RL ₆₂
1998 RB ₆₃	14.7	0.15	20000226	81.77465	252.30714	155.95939	11.62471	0.1823066	2.6794955	61	2	1998-2000	0.70	M-v	3	Williams	39537	1998 RB ₆₃
1998 RT ₆₃	13.5	0.15	20000226	346.41424	350.81725	159.33870	12.11473	0.1146061	2.5268418	49	2	1998-2000	0.50	M-v	3	Williams	39223	1998 RT ₆₃
1998 RA ₆₄	14.0	0.15	20000226	12.47989	14.08366	120.97798	3.33987	0.1152049	2.4244178	98	4	1966-2000	0.60	M-v	2	Williams	39537	1998 RA ₆₄
1998 RJ ₆₄	15.2	0.15	20000226	163.64938	179.33709	143.11658	2.71680	0.2137991	2.3995620	39	2	1998-2000	0.51	M-v	4	Williams	38496	1998 RJ ₆₄

1998 RQ ₆₄	14.0	0.15	20000226	99.06792	187.44317	170.30028	1.97382	0.2384936	3.0548290	45	4	1993-2000	0.60	M-v	1	Williams	38787	1998 RQ ₆₄
1998 RD ₆₅	14.2	0.15	20000226	96.83866	72.10238	294.12298	0.97564	0.0791907	2.9977585	37	2	1998-2000	0.68	M-v	5	Williams	39537	1998 RD ₆₅
1998 RE ₆₅	14.7	0.15	20000226	89.49601	128.31061	266.87247	0.96637	0.0912140	2.6965938	62	3	1993-2000	0.68	M-v	4	Williams	39537	1998 RE ₆₅
1998 RK ₆₅	13.5	0.15	20000226	178.74826	304.60168	352.40191	2.53912	0.0613541	2.6734342	68	2	1998-2000	0.52	M-v	3	Williams	38787	1998 RK ₆₅
1998 RU ₆₅	15.6	0.15	20000226	135.81835	33.88898	333.77558	1.60941	0.1891220	2.3998702	50	3	1993-2000	0.59	M-v	4	Williams	39537	1998 RU ₆₅
1998 RB ₆₆	14.2	0.15	20000226	16.95898	313.64961	190.90250	7.20020	0.0598824	2.2560189	58	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RB ₆₆
1998 RH ₆₆	14.4	0.15	20000226	66.40882	243.99955	189.92339	15.38550	0.1522472	2.6497957	67	2	1998-2000	0.54	M-v	3	Williams	39224	1998 RH ₆₆
1998 RK ₆₆	13.6	0.15	20000226	101.79188	121.28799	250.17671	2.10653	0.0976322	2.8668589	81	3	1996-2000	0.61	M-v	3	Williams	38787	1998 RK ₆₆
1998 RO ₆₆	13.8	0.15	20000226	39.15291	103.11003	340.48406	7.08262	0.1883402	3.0892066	68	2	1998-2000	0.57	M-v	3	Williams	39537	1998 RO ₆₆
1998 RQ ₆₆	14.8	0.15	20000226	107.44496	162.41435	232.00161	3.11476	0.0299382	2.4547020	48	2	1998-2000	0.72	M-v	4	Williams	39537	1998 RQ ₆₆
1998 RT ₆₆	13.0	0.15	20000226	109.82267	137.68668	215.47678	7.30988	0.0816292	3.0307497	81	2	1998-2000	0.61	M-v	3	Williams	38788	1998 RT ₆₆
1998 RJ ₆₇	13.7	0.15	20000226	17.99159	252.33285	207.57310	11.07824	0.0265439	2.8643759	43	2	1998-2000	0.76	M-v	3	Williams	39537	1998 RJ ₆₇
1998 RS ₆₇	14.6	0.15	20000226	136.93971	97.91149	247.16225	2.53614	0.1012921	2.6501904	36	2	1998-2000	0.64	M-v	5	Williams	38496	1998 RS ₆₇
1998 RC ₆₈	14.7	0.15	20000226	127.06428	159.02570	227.01549	2.01039	0.0862275	2.3432350	82	3	1991-2000	0.63	M-v	3	Williams	39224	1998 RC ₆₈
1998 RQ ₆₈	14.4	0.15	20000226	103.37343	29.07001	340.10006	1.43166	0.0943054	2.8749575	53	3	1993-2000	0.59	M-v	4	Williams	38788	1998 RQ ₆₈
1998 RS ₆₈	14.0	0.15	20000226	131.50016	21.86941	1.63758	9.14762	0.1007590	2.3145048	88	4	1982-2000	0.53	M-v	2	Williams	39537	1998 RS ₆₈
1998 RB ₆₉	15.1	0.15	20000226	135.38887	16.68039	4.92130	2.15329	0.1390354	2.2906142	55	2	1998-2000	0.68	M-v	4	Williams	39225	1998 RB ₆₉
1998 RC ₆₉	13.0	0.15	20000226	103.98181	324.71645	21.43282	0.52884	0.1928397	3.1763582	73	3	1992-2000	0.56	M-v	3	Williams	38788	1998 RC ₆₉
1998 RR ₆₉	15.7	0.15	20000226	140.40124	203.39972	157.83137	2.83417	0.1817007	2.3816011	32	2	1998-2000	0.66	M-v	4	Williams	39225	1998 RR ₆₉
1998 RU ₆₉	14.5	0.15	20000226	55.97620	299.54217	161.91234	3.80922	0.1023832	2.3503213	79	2	1998-2000	0.63	M-v	3	Williams	39225	1998 RU ₆₉
1998 RC ₇₁	15.2	0.15	20000226	90.98142	265.02354	144.33758	5.81253	0.0717554	2.4805805	42	2	1998-2000	0.77	M-v	4	Williams	39226	1998 RC ₇₁
1998 RD ₇₁	14.7	0.15	20000226	78.15117	273.28096	151.98325	7.54711	0.1323648	2.5339094	86	3	1997-2000	0.56	M-v	3	Williams	39537	1998 RD ₇₁
1998 RE ₇₁	14.0	0.15	20000226	39.07295	302.73383	136.15987	5.61862	0.1672596	3.0561337	71	2	1998-2000	0.62	M-v	3	Williams	39537	1998 RE ₇₁
1998 RK ₇₁	15.0	0.15	20000226	39.04460	95.46901	28.67902	6.09427	0.0589475	2.2293507	87	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RK ₇₁
1998 RM ₇₁	14.6	0.15	20000226	26.82718	306.23618	156.33444	5.58483	0.1217385	2.7608300	61	3	1989-2000	0.70	M-v	3	Williams	39537	1998 RM ₇₁
1998 RP ₇₁	15.3	0.15	20000226	118.39828	27.98796	25.84766	4.22234	0.1129775	2.1782232	65	4	1971-2000	0.65	M-v	2	Williams	39537	1998 RP ₇₁
1998 RV ₇₁	14.7	0.15	20000226	340.30556	43.24954	109.73562	1.59340	0.0754880	2.5661250	70	3	1978-2000	0.61	M-v	4	Williams	39537	1998 RV ₇₁
1998 RY ₇₁	15.0	0.15	20000226	149.13083	350.08442	17.70676	6.65092	0.1262301	2.2495395	67	2	1998-2000	0.67	M-v	3	Williams	39537	1998 RY ₇₁
1998 RZ ₇₁	13.1	0.15	20000226	101.00950	306.32781	63.56691	2.76123	0.0419755	2.8793083	81	3	1996-2000	0.50	M-v	2	Williams	38788	1998 RZ ₇₁
1998 RC ₇₂	16.2	0.15	20000226	132.65993	343.88881	57.03150	1.35247	0.1142487	2.1543918	52	3	1996-2000	0.64	M-v	3	Williams	33352	1998 RC ₇₂
1998 RL ₇₂	15.0	0.15	20000226	90.00027	54.03363	13.77132	5.02607	0.0972988	2.3458040	64	2	1998-2000	0.60	M-v	4	Williams	39226	1998 RL ₇₂
1998 RT ₇₂	14.9	0.15	20000226	107.68727	47.65206	10.53097	2.55878	0.2259458	2.3609810	110	3	1980-2000	0.69	M-v	2	Williams	33565	1998 RT ₇₂
1998 RY ₇₂	14.3	0.15	20000226	63.87107	257.03178	177.03106	2.47041	0.1104893	2.6496432	59	2	1998-2000	0.57	M-v	3	Williams	39537	1998 RY ₇₂
1998 RA ₇₃	13.5	0.15	20000226	341.78642	221.08162	271.14801	0.75773	0.0362916	2.9517970	56	3	1993-2000	0.68	M-v	3	Williams	38060	1998 RA ₇₃
1998 RV ₇₃	14.3	0.15	20000226	9.06397	218.56495	280.92508	3.95753	0.1096379	2.5236037	50	2	1998-2000	0.70	M-v	3	Williams	39227	1998 RV ₇₃
1998 RW ₇₃	14.3	0.15	20000226	9.51036	202.40785	298.72751	4.10298	0.0826331	2.4586099	81	3	1981-2000	0.63	M-v	2	Williams	39537	1998 RW ₇₃
1998 RB ₇₄	13.7	0.15	20000226	20.16483	162.07972	322.68023	7.16085	0.1081696	2.6237872	100	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RB ₇₄
1998 RC ₇₄	13.5	0.15	20000226	124.37371	123.62394	234.42798	6.42675	0.0936120	2.7270275	77	2	1998-2000	0.66	M-v	3	Williams	39537	1998 RC ₇₄
1998 RH ₇₄	12.6	0.15	20000226	132.66001	47.89817	275.99624	3.79847	0.1527547	3.0368935	93	2	1998-2000	0.62	M-v	3	Williams	38788	1998 RH ₇₄
1998 RO ₇₄	15.1	0.15	20000226	84.99630	134.80911	317.66588	3.58206	0.1142047	2.2178347	45	4	1980-2000	0.68	M-v	1	Williams	33274	1998 RO ₇₄
1998 RP ₇₄	14.8	0.15	20000226	244.83376	283.51706	335.32628	4.58811	0.1377882	2.2738293	71	4	1990-2000	0.60	M-v	2	Williams	38788	1998 RP ₇₄
1998 RR ₇₄	15.4	0.15	20000226	107.12087	68.54793	348.78460	6.62261	0.1045404	2.3027932	35	2	1998-2000	0.78	M-v	4	Williams	39227	1998 RR ₇₄
1998 RS ₇₄	14.1	0.15	20000226	68.27047	70.78691	354.78068	8.83661	0.1451449	2.7727338	67	2	1998-2000	0.57	M-v	3	Williams	39227	1998 RS ₇₄
1998 RW ₇₄	15.5	0.15	20000226	142.29639	28.60665	319.18794	1.51833	0.1968522	2.5148706	46	2	1998-2000	0.69	M-v	4	Williams	38498	1998 RW ₇₄
1998 RX ₇₄	14.3	0.15	20000226	49.94318	142.04759	315.72204	1.41483	0.1616207	2.6440154	79	3	1991-2000	0.60	M-v	3	Williams	39537	1998 RX ₇₄
1998 RA ₇₅	14.1	0.15	20000226	59.30966	80.71389	4.25670	11.31808	0.1459978	2.6476235	85	2	1998-2000	0.61	M-v	3	Williams	39537	1998 RA ₇₅
1998 RB ₇₅	14.5	0.15	20000226	128.80731	32.62238	2.13149	7.26401	0.1117075	2.2631046	95	2	1998-2000	0.65	M-v	3	Williams	39227	1998 RB ₇₅
1998 RG ₇₅	13.2	0.15	20000226	42.53504	279.46876	182.37293	13.04244	0.1291169	2.6187198	91	3	1996-2000	0.46	M-v	2	Williams	39537	1998 RG ₇₅
1998 RH ₇₅	13.9	0.15	20000226	285.94506	27.68467	181.66064	12.36997	0.1299312	2.4702534	54	2	1998-2000	0.60	M-v	4	Williams	39537	1998 RH ₇₅
1998 RK ₇₅	12.6	0.15	20000226	328.92463	150.33017	13.84809	11.48739	0.1061108	2.6653275	89	3	1985-2000	0.54	M-v	3	Williams	39537	1998 RK ₇₅
1998 RP ₇₅	14.8	0.15	20000226	234.50634	233.72315	46.79759	2.88069	0.0449192	2.2391348	81	3	1991-2000	0.61	M-v	2	Williams	39228	1998 RP ₇₅
1998 RH ₇₆	13.1	0.15	20000226	69.74884	335.82380	68.02660	3.23759	0.1043305	2.9443995	99	3	1989-2000	0.61	M-v	2	Williams	39537	1998 RH ₇₆
1998 RZ ₇₆	14.2	0.15	20000226	65.68998	263.98543	166.28564	13.30008	0.1430763	2.6846073	72	2	1998-2000	0.64	M-v	3	Williams	39537	1998 RZ ₇₆

1998 RB ₇₇	13.2	0.15	20000226	72.26622	282.44585	130.16757	4.70305	0.0915222	2.7551234	110	4	1989–2000	0.55	M-v	1	Williams	39538	1998 RB ₇₇
1998 RD ₇₇	14.4	0.15	20000226	53.18039	345.52737	134.58270	5.31351	0.1382455	2.2370685	67	2	1998–2000	0.60	M-v	4	Williams	39538	1998 RD ₇₇
1998 RR ₇₇	14.5	0.15	20000226	6.33052	29.46980	132.62932	3.67779	0.1891096	2.2496783	94	2	1998–2000	0.61	M-v	3	Williams	39538	1998 RR ₇₇
1998 RY ₇₇	14.1	0.15	20000226	305.93910	52.41845	152.22191	5.26021	0.1107323	2.2949871	102	2	1998–2000	0.63	M-v	3	Williams	39538	1998 RY ₇₇
1998 RC ₇₈	14.2	0.15	20000226	94.54087	252.86292	133.59133	4.46248	0.1059186	2.7980001	61	2	1998–2000	0.59	M-v	4	Williams	39538	1998 RC ₇₈
1998 RM ₇₈	13.7	0.15	20000226	340.01607	121.86405	40.58917	7.14461	0.0813246	2.4644882	65	3	1985–2000	0.58	M-v	3	Williams	39538	1998 RM ₇₈
1998 RP ₇₈	14.6	0.15	20000226	124.60700	241.02180	150.63212	7.38559	0.1184227	2.3196115	76	2	1998–2000	0.68	M-v	3	Williams	39538	1998 RP ₇₈
1998 RT ₇₈	15.2	0.15	20000226	165.03204	196.83729	143.28924	7.02733	0.1570862	2.2987817	33	2	1998–2000	0.68	M-v	4	Williams	39229	1998 RT ₇₈
1998 RU ₇₈	13.7	0.15	20000226	88.83808	246.39766	125.37785	6.01728	0.1841672	3.1361494	55	2	1998–2000	0.59	M-v	3	Williams	38789	1998 RU ₇₈
1998 RY ₇₈	13.1	0.15	20000226	13.18834	343.40978	111.34671	6.29168	0.0780918	3.1549865	69	2	1998–2000	0.67	M-v	3	Williams	39538	1998 RY ₇₈
1998 RX ₇₉	13.3	0.15	20000226	91.32544	77.80889	340.98034	8.28876	0.1887461	2.5737880	105	3	1994–2000	0.61	M-v	2	Williams	39538	1998 RX ₇₉
1998 RZ ₇₉	13.0	0.15	20000226	37.48503	357.28834	92.50010	4.97542	0.0636937	2.7888664	131	3	1997–2000	0.55	M-v	2	Williams	39538	1998 RZ ₇₉
1998 RO ₈₀	14.5	0.15	20000226	324.22906	184.07885	7.43706	6.66396	0.0966267	2.3521656	65	2	1998–2000	0.62	M-v	4	Williams	39538	1998 RO ₈₀
1998 SA	14.2	0.15	20000226	162.00804	129.72563	197.08953	4.28456	0.2463530	2.5249465	44	2	1998–2000	0.61	M-v	4	Williams	38499	1998 SA
1998 SC	13.1	0.15	20000226	241.55075	174.74183	46.53141	10.01814	0.2155755	2.7382149	72	2	1998–2000	0.63	M-v	3	Williams	37764	1998 SC
1998 SV	16.6	0.15	20000226	216.54302	289.73240	23.45155	2.78576	0.0861914	2.1716242	24	3	1997–2000	0.46	M-v	4	Williams	35716	1998 SV
1998 SA ₁	13.4	0.15	20000226	94.93026	210.47401	164.57103	1.36996	0.1988716	3.1805369	73	3	1996–2000	0.49	M-v	3	Williams	38789	1998 SA ₁
1998 SG ₁	15.5	0.15	20000226	74.70172	272.11821	177.12895	2.24986	0.1890599	2.5777478	60	4	1973–2000	0.75	M-v	2	Williams	35716	1998 SG ₁
1998 SK ₁	13.5	0.15	20000226	31.40838	36.21780	64.03273	1.60269	0.1373145	3.1370502	110	3	1992–2000	0.59	M-v	2	Williams	39538	1998 SK ₁
1998 SN ₁	14.2	0.15	20000226	262.41112	49.15988	191.71182	7.05132	0.1036098	2.5296099	49	2	1998–2000	0.72	M-v	4	Williams	39538	1998 SN ₁
1998 SQ ₁	14.5	0.15	20000226	33.87378	40.51772	77.70592	5.83166	0.1962696	2.5514401	60	2	1998–2000	0.57	M-v	4	Williams	39229	1998 SQ ₁
1998 SO ₂	14.6	0.15	20000226	127.45809	328.59736	73.76083	14.25693	0.1702205	2.5607818	41	4	1977–2000	0.70	M-v	3	Williams	39230	1998 SO ₂
1998 SS ₂	13.2	0.15	20000226	169.54204	57.44607	259.25060	12.34407	0.1821544	2.5755702	112	2	1998–2000	0.57	M-v	3	Williams	39538	1998 SS ₂
1998 SH ₄	13.6	0.15	20000226	184.25067	107.92659	137.37467	2.17676	0.1252653	3.1820336	58	3	1996–1999	0.53	M-v	3	Williams	38061	1998 SH ₄
1998 SJ ₄	15.6	0.15	20000226	92.18651	29.88515	29.31635	1.71693	0.2143398	2.4229963	44	2	1998–2000	0.66	M-v	4	Williams	39230	1998 SJ ₄
1998 SM ₄	14.6	0.15	20000226	129.88915	174.42199	203.96720	1.75589	0.2160251	2.4212926	98	3	1997–2000	0.49	M-v	2	Williams	39230	1998 SM ₄
1998 SR ₄	15.4	0.15	20000226	73.18505	244.98381	213.24909	5.93394	0.1819858	2.3197318	68	3	1989–2000	0.79	M-v	2	Williams	33353	1998 SR ₄
1998 SG ₅	13.0	0.15	20000226	113.95472	179.49476	183.27500	12.77885	0.1726495	2.6692019	128	3	1979–2000	0.65	M-v	2	Williams	39538	1998 SG ₅
1998 SF ₆	15.5	0.15	20000226	95.13057	240.98466	161.07404	2.67723	0.1354498	2.4112114	31	2	1998–2000	0.47	M-v	4	Williams	39231	1998 SF ₆
1998 ST ₇	14.7	0.15	20000226	38.86718	108.23605	4.86773	2.16381	0.1667717	2.4148632	90	3	1991–2000	0.52	M-v	2	Williams	39231	1998 ST ₇
1998 SH ₈	15.9	0.15	20000226	162.10805	15.09303	331.82608	0.36412	0.2372589	2.2659367	60	3	1991–2000	0.57	M-v	3	Williams	39231	1998 SH ₈
1998 SK ₈	14.1	0.15	20000226	19.45806	290.14356	190.00479	12.89197	0.1532275	2.7421563	56	2	1998–2000	0.58	M-v	3	Williams	39538	1998 SK ₈
1998 SJ ₁₀	14.6	0.15	20000226	87.97933	204.38762	204.84312	1.15190	0.1792209	3.0480867	25	2	1998–2000	0.57	M-v	4	Williams	39231	1998 SJ ₁₀
1998 SU ₁₀	13.6	0.15	20000226	59.00583	194.92797	201.25593	0.54700	0.1528961	3.1359049	86	2	1998–2000	0.60	M-v	3	Williams	38789	1998 SU ₁₀
1998 SV ₁₂	13.2	0.15	20000226	39.94871	300.36414	156.77949	27.34272	0.1972668	3.1131288	61	2	1998–2000	0.46	M-v	3	Williams	39231	1998 SV ₁₂
1998 SX ₁₂	13.5	0.15	20000226	119.86523	240.91012	149.34362	27.58348	0.0245510	2.6507225	70	2	1998–2000	0.53	M-v	3	Williams	39538	1998 SX ₁₂
1998 SB ₁₃	15.6	0.15	20000226	203.61380	150.15584	148.02251	6.46115	0.2144927	2.2363902	51	2	1998–2000	0.61	M-v	4	Williams	39538	1998 SB ₁₃
1998 SN ₁₃	15.0	0.15	20000226	120.15751	296.39153	107.91986	4.85967	0.0950704	2.2414878	57	2	1998–2000	0.69	M-v	4	Williams	39232	1998 SN ₁₃
1998 SQ ₁₃	14.7	0.15	20000226	132.84400	299.92384	29.56557	0.78780	0.2057387	3.0975785	30	2	1998–2000	0.41	M-v	4	Williams	38501	1998 SQ ₁₃
1998 SR ₁₄	14.9	0.15	20000226	113.69032	344.30387	54.44345	5.47406	0.1475987	2.4313732	66	3	1960–2000	0.76	M-v	3	Williams	39538	1998 SR ₁₄
1998 SG ₁₅	15.0	0.15	20000226	34.48773	175.01715	306.56085	1.75575	0.1342871	2.3992240	51	3	1994–2000	0.59	M-v	3	Williams	39232	1998 SG ₁₅
1998 SW ₁₆	18.1	0.15	19980924	289.28589	67.92873	25.43355	2.22494	0.1490596	2.3491890	12	1	41 days	0.38		D	Williams		1998 SW ₁₆
1998 SC ₁₇	14.2	0.15	20000226	60.21382	299.98638	113.29786	1.97857	0.1257191	3.0787560	65	3	1996–2000	0.69	M-v	3	Williams	38501	1998 SC ₁₇
1998 SM ₁₇	15.6	0.15	20000226	105.67730	231.53438	164.16719	4.83343	0.1871509	2.5756074	58	2	1998–2000	0.53	M-v	4	Williams	39233	1998 SM ₁₇
1998 SS ₁₉	14.7	0.15	20000226	78.89165	128.01862	273.38109	0.81395	0.1845637	2.6575980	62	2	1998–2000	0.55	M-v	3	Williams	39538	1998 SS ₁₉
1998 SR ₂₁	14.7	0.15	20000226	67.28035	247.01175	213.43550	6.20571	0.0631211	2.3789216	51	2	1998–2000	0.55	M-v	3	Williams	39233	1998 SR ₂₁
1998 SU ₂₁	14.7	0.15	20000226	52.13744	277.35409	186.28372	3.08768	0.1142772	2.2750230	90	3	1997–2000	0.67	M-v	3	Williams	39538	1998 SU ₂₁
1998 SA ₂₂	14.9	0.15	20000226	44.59763	116.80509	9.31482	7.09815	0.0671081	2.2741232	87	2	1998–2000	0.51	M-v	3	Williams	39233	1998 SA ₂₂
1998 SH ₂₂	15.5	0.15	20000226	115.03429	58.60938	350.33396	6.31203	0.1840409	2.2715866	43	3	1981–2000	0.63	M-v	3	Williams	39538	1998 SH ₂₂
1998 SN ₂₂	13.0	0.15	20000226	353.87230	309.75613	191.44946	13.05718	0.0993019	2.6852519	102	4	1992–2000	0.60	M-v	2	Williams	39538	1998 SN ₂₂
1998 SP ₂₂	12.8	0.15	20000226	243.92360	231.44275	2.27100	6.77697	0.0686196	2.7303370	79	3	1996–2000	0.54	M-v	2	Williams	38789	1998 SP ₂₂
1998 SS ₂₂	15.1	0.15	20000226	127.58333	20.48750	358.87486	6.80228	0.1286358	2.4221114	76	2	1998–2000	0.67	M-v	3	Williams	39233	1998 SS ₂₂
1998 SW ₂₂	14.0	0.15	20000226	125.22359	226.88621	160.95717	12.03141	0.1242767	2.7060770	73	3	1993–2000	0.53	M-v	3	Williams	39538	1998 SW ₂₂

1998 SQ ₂₃	14.0	0.15	20000226	117.42185	233.54365	125.65342	7.15899	0.0390156	2.7422448	32	2	1998-2000	0.73	M-v	4	Williams	38501	1998 SQ ₂₃
1998 SW ₂₃	14.7	0.15	20000226	6.41569	94.11757	44.24978	7.72140	0.0390595	2.3841693	45	3	1993-2000	0.66	M-v	3	Williams	39538	1998 SW ₂₃
1998 SA ₂₄	13.6	0.15	20000226	22.89896	348.73018	104.11511	5.66333	0.0555730	2.8157313	83	3	1992-2000	0.71	M-v	3	Williams	38789	1998 SA ₂₄
1998 SB ₂₄	16.4	0.15	19980904	312.61370	10.14632	41.14035	4.60490	0.1370258	2.2255304	21	1	10 days	0.74			Williams		1998 SB ₂₄
1998 SD ₂₄	15.2	0.15	20000226	228.07598	306.27688	25.03730	21.53558	0.0616033	1.9254069	64	3	1990-2000	0.72	M-v	3	Williams	38789	1998 SD ₂₄
1998 SU ₂₄	14.0	0.15	20000226	80.04827	17.95414	72.42195	5.08621	0.1014955	2.2798508	78	3	1981-2000	0.64	M-v	2	Williams	39539	1998 SU ₂₄
1998 SV ₂₄	14.7	0.15	20000226	92.62211	322.75975	91.05757	4.37021	0.1458701	2.5676205	48	4	1977-2000	0.72	M-v	2	Williams	39539	1998 SV ₂₄
1998 SW ₂₄	14.8	0.15	20000226	98.64162	271.76767	140.35623	7.07115	0.0306114	2.4103440	67	3	1997-2000	0.56	M-v	3	Williams	39539	1998 SW ₂₄
1998 SZ ₂₄	14.4	0.15	20000226	176.06737	162.98539	153.13952	7.19643	0.1562451	2.5340066	44	3	1990-2000	0.59	M-v	4	Williams	38502	1998 SZ ₂₄
1998 SA ₂₅	13.8	0.15	20000226	77.59366	316.83670	138.38258	5.93706	0.0496187	2.2956730	77	3	1993-2000	0.54	M-v	2	Williams	39539	1998 SA ₂₅
1998 SH ₂₅	12.8	0.15	20000226	210.20534	207.59138	71.88527	6.33507	0.0210640	2.7413125	123	3	1997-2000	0.57	M-v	2	Williams	38790	1998 SH ₂₅
1998 SJ ₂₅	14.7	0.15	20000226	65.91052	4.75486	109.41413	5.66859	0.0958106	2.2501416	62	2	1998-2000	0.63	M-v	4	Williams	39234	1998 SJ ₂₅
1998 SS ₂₅	15.1	0.15	20000226	117.05258	347.64930	63.97148	6.21906	0.1615542	2.3265765	66	4	1991-2000	0.68	M-v	2	Williams	39234	1998 SS ₂₅
1998 SZ ₂₅	14.2	0.15	20000226	16.73105	350.61847	162.30453	5.95401	0.0970634	2.2738112	75	2	1998-2000	0.56	M-v	3	Williams	39234	1998 SZ ₂₅
1998 SJ ₂₆	12.8	0.15	20000226	43.48469	38.82361	46.34505	14.95309	0.1894214	3.1331675	57	2	1998-2000	0.62	M-v	3	Williams	39539	1998 SJ ₂₆
1998 SR ₂₆	14.2	0.15	20000226	63.50177	222.79019	207.16908	8.56588	0.1516861	2.7423515	71	2	1998-2000	0.66	M-v	3	Williams	38502	1998 SR ₂₆
1998 SC ₂₇	14.8	0.15	20000226	209.55600	184.71225	94.26144	0.93138	0.0896231	2.5301434	22	2	1998-2000	0.58	M-v	6	Williams	38503	1998 SC ₂₇
1998 SF ₂₇	14.6	0.15	20000226	71.74558	277.28762	161.26586	1.57189	0.1519864	2.4191653	61	2	1998-2000	0.59	M-v	4	Williams	39235	1998 SF ₂₇
1998 SN ₂₇	12.6	0.15	20000226	275.00527	296.70894	281.60804	27.11913	0.0986309	2.6510751	91	3	1987-2000	0.64	M-v	2	Williams	39539	1998 SN ₂₇
1998 SQ ₂₇	14.3	0.15	20000226	189.00792	177.52841	144.36758	22.28836	0.0210886	2.5688592	61	2	1998-2000	0.59	M-v	4	Williams	39235	1998 SQ ₂₇
1998 SS ₂₇	12.5	0.15	20000226	200.06048	351.84266	305.13430	27.63743	0.0492978	2.6093511	93	2	1998-2000	0.55	M-v	3	Williams	39539	1998 SS ₂₇
1998 SA ₂₈	13.5	0.15	20000226	180.38785	277.60028	27.48107	4.35105	0.0651833	2.7513295	98	3	1996-2000	0.61	M-v	3	Williams	38790	1998 SA ₂₈
1998 SP ₂₈	14.2	0.15	20000226	87.54435	3.50458	35.37738	8.03024	0.0306191	2.7510616	46	2	1998-2000	0.63	M-v	3	Williams	38503	1998 SP ₂₈
1998 SY ₃₁	15.6	0.15	20000226	102.99335	239.78662	187.29786	4.65451	0.1676921	2.3011260	59	5	1977-2000	0.68	M-v	3	Williams	35717	1998 SY ₃₁
1998 SY ₃₃	15.2	0.15	19980924	8.72850	157.16589	191.04010	13.73527	0.2689061	2.6777996	19	1	31 days	0.51			D Williams		1998 SY ₃₃
1998 SM ₃₄	14.1	0.15	20000226	101.74525	50.90837	15.13745	10.58638	0.2237272	2.3439234	82	4	1973-2000	0.52	M-v	2	Williams	39539	1998 SM ₃₄
1998 SN ₃₄	15.8	0.15	20000226	143.41324	226.51993	196.23293	21.74976	0.0893399	1.9440913	56	3	1960-2000	0.62	M-v	3	Williams	35717	1998 SN ₃₄
1998 SL ₃₅	15.4	0.15	20000226	109.91566	244.90743	164.63996	4.99523	0.1688669	2.2678261	72	2	1998-2000	0.65	M-v	4	Williams	39236	1998 SL ₃₅
1998 SO ₃₅	14.4	0.15	20000226	227.94723	70.47352	205.90958	2.31812	0.0338647	2.7081243	66	3	1996-2000	0.60	M-v	3	Williams	39539	1998 SO ₃₅
1998 SQ ₃₅	13.5	0.15	20000226	295.96156	160.38416	39.52537	15.97547	0.0904668	3.0676352	56	2	1998-2000	0.62	M-v	3	Williams	38503	1998 SQ ₃₅
1998 SZ ₃₆	15.2	0.15	20000226	305.55677	159.59946	39.97897	1.22303	0.0992068	2.4330801	53	3	1960-2000	0.67	M-v	4	Williams	39539	1998 SZ ₃₆
1998 SM ₃₇	16.1	0.15	20000226	50.74684	116.59809	342.37584	2.14710	0.0464987	2.6054993	31	2	1998-2000	0.54	M-v	4	Williams	39236	1998 SM ₃₇
1998 SP ₃₇	14.7	0.15	20000226	85.57576	233.35236	218.59655	3.75154	0.1084002	2.3191350	63	3	1989-2000	0.63	M-v	2	Williams	39539	1998 SP ₃₇
1998 SR ₃₇	13.9	0.15	20000226	148.86201	132.75340	216.27762	5.35835	0.0841547	2.6247975	76	2	1998-2000	0.59	M-v	3	Williams	39539	1998 SR ₃₇
1998 SU ₃₇	14.1	0.15	20000226	22.66222	296.20919	211.42156	6.91055	0.0537760	2.3483246	79	3	1975-2000	0.54	M-v	3	Williams	39539	1998 SU ₃₇
1998 SU ₄₀	15.3	0.15	20000226	69.27949	197.20669	237.86137	1.32157	0.0912032	2.4342406	56	3	1994-2000	0.79	M-v	3	Williams	39539	1998 SU ₄₀
1998 SM ₄₁	14.2	0.15	20000226	47.60601	108.97548	359.43236	9.95600	0.1901348	2.4559257	146	3	1996-2000	0.51	M-v	2	Williams	39237	1998 SM ₄₁
1998 SQ ₄₂	15.6	0.15	20000226	75.58918	95.41950	350.10334	4.12864	0.1507308	2.4247796	54	3	1994-2000	0.80	M-v	3	Williams	39539	1998 SQ ₄₂
1998 SU ₄₂	14.3	0.15	20000226	1.51668	309.85679	188.86265	7.68437	0.1648946	2.7775986	41	2	1998-2000	0.65	M-v	3	Williams	38504	1998 SU ₄₂
1998 SD ₄₃	14.4	0.15	20000226	344.89283	165.61067	17.65662	7.29390	0.1618087	2.2443761	71	3	1990-2000	0.67	M-v	3	Williams	39539	1998 SD ₄₃
1998 SE ₄₃	14.2	0.15	20000226	325.03497	187.88345	8.43889	7.02061	0.0411295	2.2852793	93	2	1998-2000	0.52	M-v	3	Williams	39539	1998 SE ₄₃
1998 SK ₄₃	14.7	0.15	20000226	26.82445	125.05957	6.09845	7.84449	0.0471148	2.3894856	75	2	1998-2000	0.54	M-v	3	Williams	39237	1998 SK ₄₃
1998 ST ₄₃	14.4	0.15	20000226	136.52515	233.86637	139.81933	2.87524	0.2282178	2.3947106	79	2	1998-2000	0.70	M-v	3	Williams	39238	1998 ST ₄₃
1998 SE ₄₄	12.8	0.15	20000226	27.51987	263.69741	171.44752	7.14429	0.1239660	3.1626895	79	2	1998-2000	0.60	M-v	3	Williams	39539	1998 SE ₄₄
1998 SD ₄₆	15.3	0.15	20000226	69.95568	93.03560	2.61434	1.71101	0.0733839	2.4159622	64	2	1998-2000	0.60	M-v	3	Williams	39238	1998 SD ₄₆
1998 SE ₄₇	13.3	0.15	20000226	45.13353	53.83075	33.60221	5.76392	0.0673250	3.0012006	63	3	1993-2000	0.58	M-v	2	Williams	39539	1998 SE ₄₇
1998 SK ₄₈	15.6	0.15	20000226	44.59748	118.60759	2.96401	2.28272	0.1391786	2.5445314	29	2	1998-2000	0.63	M-v	4	Williams	39238	1998 SK ₄₈
1998 SN ₄₈	14.8	0.15	20000226	73.94017	82.27920	6.36072	1.63826	0.1886509	2.6227287	85	3	1994-2000	0.51	M-v	3	Williams	39539	1998 SN ₄₈
1998 SB ₄₉	15.4	0.15	20000226	115.85889	214.99258	170.95517	3.35764	0.1231093	2.3971584	52	2	1998-2000	0.79	M-v	4	Williams	39238	1998 SB ₄₉
1998 SC ₄₉	13.8	0.15	20000226	45.90702	263.85428	157.92669	2.30087	0.0491754	2.8637066	69	3	1993-2000	0.74	M-v	3	Williams	38790	1998 SC ₄₉
1998 SD ₄₉	15.7	0.15	20000226	131.89551	194.05715	172.12086	2.94022	0.2057980	2.4160310	77	3	1995-2000	0.71	M-v	3	Williams	39539	1998 SD ₄₉
1998 SF ₄₉	12.5	0.15	20000226	349.72057	109.51684	19.64089	2.38972	0.0706404	3.3356120	95	2	1998-2000	0.58	M-v	3	Williams	38790	1998 SF ₄₉
1998 SL ₅₀	16.4	0.15	20000226	98.80724	53.37296	16.35359	6.30015	0.1637420	2.4299832	36	3	1960-2000	0.55	M-v	3	Williams	33356	1998 SL ₅₀

1998 SN ₅₀	15.0	0.15	20000226	45.12164	240.34059	252.85797	1.42890	0.1510789	2.3741035	50	3	1989-2000	0.75	M-v	2	Williams	39539	1998 SN ₅₀
1998 SO ₅₀	14.7	0.15	20000226	24.37562	142.46975	11.02885	4.86255	0.1703839	2.3798158	57	3	1989-2000	0.60	M-v	3	Williams	38790	1998 SO ₅₀
1998 ST ₅₂	14.7	0.15	20000226	26.45976	265.05557	237.08447	3.60082	0.1809879	2.5318926	48	2	1998-2000	0.67	M-v	4	Williams	39239	1998 ST ₅₂
1998 SK ₅₃	13.6	0.15	20000226	165.11383	76.37948	194.20805	15.03412	0.0975135	3.2058489	49	2	1998-1999	0.84	M-v	4	Williams	38505	1998 SK ₅₃
1998 SP ₅₃	13.9	0.15	20000226	102.56767	54.73627	309.25328	4.56886	0.1372954	2.8427466	77	2	1998-2000	0.66	M-v	3	Williams	38790	1998 SP ₅₃
1998 ST ₅₃	14.9	0.15	20000226	91.91337	79.02358	334.96614	6.98570	0.2383925	2.5358479	64	4	1986-2000	0.74	M-v	3	Williams	39539	1998 ST ₅₃
1998 SY ₅₃	14.7	0.15	20000226	138.14199	159.30693	196.11625	9.28113	0.0989884	2.4440595	77	3	1997-2000	0.56	M-v	3	Williams	39539	1998 SY ₅₃
1998 SZ ₅₃	14.4	0.15	20000226	140.17527	44.04596	321.59369	3.76803	0.1224885	2.3316570	105	2	1998-2000	0.53	M-v	3	Williams	39539	1998 SZ ₅₃
1998 SB ₅₄	15.6	0.15	20000226	123.88913	165.57070	227.53330	2.80274	0.1393496	2.2908842	88	3	1997-2000	0.68	M-v	3	Williams	39539	1998 SB ₅₄
1998 SP ₅₄	14.9	0.15	20000226	61.68085	261.73602	188.81170	4.21485	0.2236981	2.5441020	82	5	1992-2000	0.72	M-v	1	Williams	39539	1998 SP ₅₄
1998 SW ₅₅	15.0	0.15	20000226	79.42092	86.34507	354.45939	6.80623	0.1006599	2.2628158	99	2	1998-2000	0.64	M-v	3	Williams	39539	1998 SW ₅₅
1998 SX ₅₅	14.2	0.15	20000226	36.42072	112.38579	352.21363	13.43952	0.1693702	2.5874688	94	2	1998-2000	0.57	M-v	3	Williams	39240	1998 SX ₅₅
1998 SB ₅₆	15.2	0.15	20000226	176.57387	140.12215	175.87465	6.99010	0.2420315	2.2698781	49	2	1998-2000	0.64	M-v	3	Williams	38506	1998 SB ₅₆
1998 SC ₅₆	14.6	0.15	20000226	81.64208	200.66812	207.64091	3.46424	0.1434923	2.6387432	54	2	1998-2000	0.60	M-v	4	Williams	39539	1998 SC ₅₆
1998 SD ₅₆	14.6	0.15	20000226	226.98335	289.25443	339.61086	5.39065	0.1677968	2.2107773	69	3	1997-2000	0.63	M-v	3	Williams	38506	1998 SD ₅₆
1998 SX ₅₆	15.3	0.15	20000226	107.40882	25.86275	24.44529	3.06009	0.2462988	2.3876424	48	2	1998-2000	0.63	M-v	4	Williams	39241	1998 SX ₅₆
1998 SF ₅₇	14.6	0.15	20000226	147.30035	281.67555	60.75764	1.55279	0.2153585	2.4175995	72	3	1997-2000	0.67	M-v	3	Williams	39539	1998 SF ₅₇
1998 SL ₅₇	14.3	0.15	20000226	337.06900	147.40255	23.33850	4.48181	0.0834388	2.3068800	131	2	1998-2000	0.54	M-v	3	Williams	39539	1998 SL ₅₇
1998 SO ₅₇	14.7	0.15	20000226	47.94685	18.37774	70.74064	2.39484	0.1098515	2.5728443	73	2	1998-2000	0.68	M-v	3	Williams	39539	1998 SO ₅₇
1998 SQ ₅₇	13.9	0.15	20000226	25.34168	0.59791	85.02220	3.28968	0.1425128	3.0880011	48	2	1998-2000	0.58	M-v	3	Williams	38790	1998 SQ ₅₇
1998 SY ₅₇	13.1	0.15	20000226	146.84644	238.25813	76.66155	3.05310	0.0655487	2.8946665	74	3	1996-2000	0.57	M-v	3	Williams	38791	1998 SY ₅₇
1998 SJ ₅₈	14.1	0.15	20000226	7.82197	123.49122	20.24646	1.62783	0.1199116	2.4024954	91	2	1998-2000	0.62	M-v	3	Williams	39241	1998 SJ ₅₈
1998 SR ₅₈	14.4	0.15	20000226	61.85191	274.36852	182.18713	6.44903	0.0526795	2.3055712	108	3	1997-2000	0.59	M-v	2	Williams	39539	1998 SR ₅₈
1998 ST ₅₈	14.6	0.15	20000226	206.69616	128.89446	172.61949	3.53504	0.1828611	2.1675146	92	2	1998-2000	0.51	M-v	4	Williams	39540	1998 ST ₅₈
1998 SV ₅₈	14.2	0.15	20000226	68.45453	261.55669	174.34472	5.67346	0.1715524	2.6347968	80	2	1998-2000	0.53	M-v	3	Williams	39242	1998 SV ₅₈
1998 SA ₅₉	14.0	0.15	20000226	105.45594	348.18917	27.41073	5.60302	0.1464283	2.7623519	76	2	1998-2000	0.53	M-v	3	Williams	38507	1998 SA ₅₉
1998 SD ₅₉	13.9	0.15	20000226	103.11247	203.44271	164.44815	2.26654	0.0994746	2.9292833	47	2	1998-2000	0.67	M-v	4	Williams	38507	1998 SD ₅₉
1998 SE ₅₉	12.7	0.15	20000226	217.59374	133.11506	99.55275	2.83600	0.0977132	3.2307994	74	2	1998-2000	0.64	M-v	4	Williams	38791	1998 SE ₅₉
1998 SN ₅₉	14.3	0.15	20000226	267.79182	199.11728	41.57282	5.17169	0.0294334	2.3460579	67	2	1998-2000	0.61	M-v	4	Williams	39242	1998 SN ₅₉
1998 SO ₅₉	13.6	0.15	20000226	8.91671	117.26247	24.71733	9.78232	0.0797721	2.4382436	85	2	1998-2000	0.60	M-v	3	Williams	39540	1998 SO ₅₉
1998 SG ₆₀	12.8	0.15	20000226	43.26086	333.30555	94.39721	2.52485	0.1676233	3.1989273	112	3	1981-2000	0.54	M-v	1	Williams	39540	1998 SG ₆₀
1998 SY ₆₀	15.2	0.15	20000226	77.84950	306.19088	144.59217	3.80817	0.0652976	2.1904543	73	3	1997-2000	0.71	M-v	2	Williams	39540	1998 SY ₆₀
1998 SR ₆₁	13.8	0.15	20000226	28.11261	119.52030	337.13346	11.22992	0.0407845	2.7837484	59	2	1998-2000	0.66	M-v	3	Williams	39540	1998 SR ₆₁
1998 SS ₆₁	13.8	0.15	20000226	79.65448	210.87536	209.09013	12.46737	0.1153715	2.6069943	104	3	1994-2000	0.68	M-v	2	Williams	39540	1998 SS ₆₁
1998 SR ₆₂	14.9	0.15	20000226	176.84447	309.65865	41.33214	2.26120	0.2727544	2.3173045	39	4	1996-2000	0.75	M-v	2	Williams	39540	1998 SR ₆₂
1998 SS ₆₂	15.2	0.15	20000226	74.53921	348.96354	86.42078	1.72125	0.1220968	2.5436722	45	2	1998-2000	0.62	M-v	4	Williams	39243	1998 SS ₆₂
1998 SU ₆₂	13.8	0.15	20000226	104.56134	10.93686	343.73982	0.95379	0.0718013	2.9807704	58	4	1993-2000	0.68	M-v	1	Williams	38791	1998 SU ₆₂
1998 SX ₆₂	13.8	0.15	20000226	53.07682	56.16409	12.94531	12.51600	0.1534384	3.0983638	38	2	1998-2000	0.62	M-v	3	Williams	38508	1998 SX ₆₂
1998 SK ₆₃	13.0	0.15	20000226	5.24518	36.24931	79.44788	3.88704	0.1048175	3.0377102	134	2	1998-2000	0.63	M-v	3	Williams	38791	1998 SK ₆₃
1998 SM ₆₃	13.5	0.15	20000226	73.62283	116.85595	324.53935	5.67985	0.0618355	2.3040824	125	3	1991-2000	0.57	M-v	1	Williams	39540	1998 SM ₆₃
1998 SQ ₆₃	14.7	0.15	20000226	159.80544	296.56079	56.49164	2.79672	0.0734508	2.3366170	72	3	1997-2000	0.54	M-v	3	Williams	39540	1998 SQ ₆₃
1998 SS ₆₃	14.4	0.15	20000226	97.50628	50.03276	348.50544	8.77240	0.2093760	2.6199293	67	2	1998-2000	0.51	M-v	3	Williams	39243	1998 SS ₆₃
1998 ST ₆₃	13.5	0.15	20000226	85.63151	201.00331	211.98041	3.17323	0.2062400	2.6061168	109	3	1996-2000	0.57	M-v	2	Williams	39540	1998 ST ₆₃
1998 SY ₆₃	12.8	0.15	20000226	325.97532	145.78663	54.11644	6.97489	0.0938250	2.3150986	100	3	1979-2000	0.56	M-v	2	Williams	39540	1998 SY ₆₃
1998 SH ₆₄	14.6	0.15	20000226	104.98125	333.96019	67.90702	6.06345	0.1915552	2.6185401	48	3	1994-2000	0.73	M-v	3	Williams	39244	1998 SH ₆₄
1998 SL ₆₄	14.4	0.15	20000226	321.42272	97.60575	108.46729	4.52251	0.0681500	2.2874269	82	2	1998-2000	0.67	M-v	3	Williams	39540	1998 SL ₆₄
1998 SM ₆₄	13.2	0.15	20000226	36.42497	280.40590	188.40777	21.57821	0.2782790	3.1589627	55	2	1998-2000	0.66	M-v	3	Williams	39540	1998 SM ₆₄
1998 SR ₆₄	13.6	0.15	19980924	26.35128	198.85906	154.38239	6.45560	0.0376525	2.7433252	14	1	39 days	0.97		D	Williams		1998 SR ₆₄
1998 SZ ₆₄	14.4	0.15	20000226	281.07196	114.48212	128.40200	4.27368	0.0936605	2.2580399	72	4	1991-2000	0.53	M-v	2	Williams	39540	1998 SZ ₆₄
1998 SB ₆₅	13.4	0.15	20000226	289.42413	151.08992	62.67287	8.60420	0.1456883	2.5639195	55	2	1998-2000	0.68	M-v	4	Williams	38791	1998 SB ₆₅
1998 SC ₆₅	14.2	0.15	19980924	45.34623	207.46822	117.75263	2.75178	0.1128495	2.5287466	14	1	39 days	0.52		D	Williams		1998 SC ₆₅
1998 SG ₆₅	14.5	0.15	20000226	158.97767	219.43593	140.03953	2.86496	0.1006791	2.3457411	78	4	1993-2000	0.74	M-v	2	Williams	39540	1998 SG ₆₅
1998 SL ₆₅	14.0	0.15	20000226	136.47047	253.55417	126.29676	4.09447	0.0353137	2.4236673	60	2	1998-2000	0.59	M-v	3	Williams	39244	1998 SL ₆₅

1998 SU ₆₅	14.2	0.15	20000226	335.58760	119.81288	80.88026	4.66755	0.1494645	2.2267374	80	2	1998–2000	0.56	M-v	3	Williams	39540	1998 SU ₆₅
1998 SV ₆₅	13.2	0.15	20000226	302.76766	25.42300	187.21011	12.43282	0.1307869	2.4373125	86	4	1985–2000	0.61	M-v	2	Williams	39540	1998 SV ₆₅
1998 SZ ₆₅	14.0	0.15	19981014	123.68144	200.73552	53.49263	7.75155	0.0906043	2.3305334	18	1	51 days	1.22		D	Williams		1998 SZ ₆₅
1998 SC ₆₆	14.5	0.15	20000226	169.92140	200.92572	132.60796	3.18633	0.2066188	2.3772783	61	2	1998–2000	0.66	M-v	4	Williams	39244	1998 SC ₆₆
1998 SJ ₆₆	13.5	0.15	20000226	93.00540	258.42536	124.19176	6.06980	0.0645136	3.1401115	51	2	1998–2000	0.69	M-v	4	Williams	38791	1998 SJ ₆₆
1998 SP ₆₆	14.6	0.15	20000226	251.72259	199.90720	67.96426	6.38902	0.1723498	2.1882082	44	3	1995–2000	0.81	M-v	3	Williams	38791	1998 SP ₆₆
1998 SD ₆₇	14.1	0.15	20000226	174.70120	298.70729	48.58768	5.93875	0.1922620	2.2285791	87	3	1988–2000	0.69	M-v	3	Williams	39540	1998 SD ₆₇
1998 SE ₆₇	14.3	0.15	20000226	179.58732	207.48133	114.50278	4.92023	0.1880847	2.3908194	61	2	1998–2000	0.63	M-v	4	Williams	39540	1998 SE ₆₇
1998 SN ₆₇	14.0	0.15	20000226	49.40514	70.42177	40.65009	15.63830	0.1670818	2.6498972	59	3	1996–2000	0.76	M-v	2	Williams	39540	1998 SN ₆₇
1998 SS ₆₇	14.4	0.15	20000226	201.90460	238.24701	76.95984	5.38147	0.2037690	2.1923151	77	3	1991–2000	0.68	M-v	3	Williams	39540	1998 SS ₆₇
1998 ST ₆₇	15.2	0.15	20000226	242.08856	182.17910	97.89590	5.36144	0.0707355	2.2851934	46	2	1998–2000	0.62	M-v	4	Williams	39244	1998 ST ₆₇
1998 SU ₆₇	13.9	0.15	20000226	351.37099	88.80359	78.62852	6.96950	0.1619400	2.6125196	61	2	1998–2000	0.55	M-v	3	Williams	39540	1998 SU ₆₇
1998 SQ ₇₀	13.6	0.15	20000226	103.66793	239.14568	135.54157	2.33687	0.1172631	2.9579684	80	4	1978–2000	0.71	M-v	3	Williams	39540	1998 SQ ₇₀
1998 SA ₇₁	13.7	0.15	20000226	46.50591	288.67790	183.57518	9.57254	0.1311378	2.5595682	98	3	1996–2000	0.65	M-v	2	Williams	39245	1998 SA ₇₁
1998 SH ₇₁	14.7	0.15	20000226	116.46772	262.48575	144.20836	2.89156	0.1679997	2.3932390	61	3	1979–2000	0.63	M-v	3	Williams	39245	1998 SH ₇₁
1998 SN ₇₁	13.9	0.15	20000226	37.85841	4.23792	84.12466	3.26781	0.0179694	2.8874604	75	2	1998–2000	0.67	M-v	4	Williams	38509	1998 SN ₇₁
1998 SX ₇₁	14.7	0.15	20000226	322.50581	156.80272	41.73600	4.26847	0.0763461	2.3575390	83	4	1987–2000	0.75	M-v	3	Williams	39540	1998 SX ₇₁
1998 SL ₇₂	13.9	0.15	20000226	1.26841	356.75726	155.96120	3.50247	0.1271257	2.6146587	82	2	1998–2000	0.55	M-v	3	Williams	39246	1998 SL ₇₂
1998 SV ₇₂	15.1	0.15	19980924	38.04689	242.75929	81.79046	2.35333	0.1762620	2.3075802	14	1	38 days	0.75		D	Williams		1998 SV ₇₂
1998 SY ₇₂	14.2	0.15	20000226	323.24137	32.85198	176.52590	6.35223	0.0561680	2.2305421	91	3	1990–2000	0.68	M-v	3	Williams	39540	1998 SY ₇₂
1998 SA ₇₃	14.6	0.15	20000226	141.57342	353.42995	33.81751	6.93544	0.1779540	2.2775517	96	3	1991–2000	0.58	M-v	2	Williams	39540	1998 SA ₇₃
1998 SW ₇₃	14.4	0.15	20000226	190.53980	283.88608	35.29229	8.06590	0.1383884	2.3065087	65	5	1977–2000	0.66	M-v	2	Williams	39540	1998 SW ₇₃
1998 SG ₇₄	15.2	0.15	20000226	87.89034	17.03447	62.35937	4.63220	0.1049708	2.3771508	69	3	1996–2000	0.77	M-v	2	Williams	39540	1998 SG ₇₄
1998 SK ₇₄	14.3	0.15	20000226	53.05693	332.08310	119.93122	4.56214	0.1502884	2.7841495	69	3	1993–2000	0.66	M-v	2	Williams	39540	1998 SK ₇₄
1998 SR ₇₄	13.7	0.15	20000226	17.88647	82.11172	47.54280	7.61533	0.0473656	2.5896582	83	2	1998–2000	0.61	M-v	3	Williams	39246	1998 SR ₇₄
1998 SU ₇₄	13.9	0.15	20000226	287.87784	155.17818	64.85073	5.75480	0.1441252	2.4422857	71	3	1970–2000	0.72	M-v	3	Williams	38791	1998 SU ₇₄
1998 SV ₇₄	14.0	0.15	20000226	60.66462	8.89697	54.79365	6.01303	0.1427630	3.1046230	58	2	1998–2000	0.85	M-v	3	Williams	39540	1998 SV ₇₄
1998 SK ₇₅	14.0	0.15	20000226	325.73039	57.27170	131.97771	4.96427	0.0741002	2.4573482	103	3	1996–2000	0.61	M-v	3	Williams	39540	1998 SK ₇₅
1998 SN ₇₅	15.2	0.15	20000226	156.99088	213.18414	134.27961	3.29527	0.2501250	2.3707434	41	2	1998–2000	0.62	M-v	4	Williams	39247	1998 SN ₇₅
1998 SS ₇₅	14.8	0.15	20000226	354.27512	342.52067	179.86673	2.86397	0.1129562	2.4038980	55	2	1998–2000	0.68	M-v	4	Williams	39247	1998 SS ₇₅
1998 SY ₇₅	15.2	0.15	20000226	90.96045	64.52481	352.70474	4.33456	0.0917513	2.3249901	51	2	1998–2000	0.57	M-v	4	Williams	39247	1998 SY ₇₅
1998 SZ ₇₉	15.2	0.15	20000226	61.45468	137.92603	314.93331	2.11374	0.1270795	2.3787192	62	3	1995–2000	0.56	M-v	3	Williams	39540	1998 SZ ₇₉
1998 SS ₈₃	15.9	0.15	20000226	110.49997	172.50506	213.81240	1.18702	0.1763461	2.5316351	48	2	1998–2000	0.50	M-v	4	Williams	39248	1998 SS ₈₃
1998 SY ₈₅	17.2	0.15	19980924	349.90931	355.57394	23.00542	2.07614	0.2117884	2.1621349	22	1	28 days	0.82		D	Williams		1998 SY ₈₅
1998 SM ₉₁	14.3	0.15	20000226	13.13674	189.66173	313.13719	4.82105	0.0563098	2.3604971	44	2	1998–2000	0.70	M-v	3	Williams	39248	1998 SM ₉₁
1998 SA ₁₀₁	14.5	0.15	20000226	256.65749	268.52007	341.49373	6.12186	0.2031993	2.2018369	65	3	1991–2000	0.59	M-v	2	Williams	38792	1998 SA ₁₀₁
1998 SE ₁₀₂	14.9	0.15	20000226	97.87228	52.86677	18.52355	4.68366	0.0995476	2.2578102	81	2	1998–2000	0.59	M-v	3	Williams	39249	1998 SE ₁₀₂
1998 SC ₁₀₃	15.2	0.15	20000226	88.15109	38.83553	34.25287	3.43852	0.0584427	2.2809169	52	2	1998–2000	0.66	M-v	3	Williams	39540	1998 SC ₁₀₃
1998 SG ₁₀₅	15.0	0.15	20000226	40.43874	327.63334	153.22036	7.10178	0.0204239	2.2449507	56	2	1998–2000	0.69	M-v	3	Williams	39249	1998 SG ₁₀₅
1998 SH ₁₀₅	15.0	0.15	20000226	335.57492	53.61933	137.72223	4.79090	0.0701343	2.1679033	74	2	1998–2000	0.74	M-v	3	Williams	39540	1998 SH ₁₀₅
1998 SV ₁₀₅	14.0	0.15	20000226	43.72911	12.42742	104.15315	2.24614	0.1352413	2.4151299	67	4	1993–2000	0.67	M-v	2	Williams	39540	1998 SV ₁₀₅
1998 SD ₁₀₆	14.1	0.15	20000226	78.68345	240.29596	182.57727	13.12728	0.1445013	2.6408293	44	2	1998–2000	0.75	M-v	3	Williams	38511	1998 SD ₁₀₆
1998 SY ₁₀₆	14.6	0.15	20000226	72.17998	76.65359	10.03872	6.54545	0.0854387	2.3850225	63	2	1998–2000	0.58	M-v	3	Williams	39250	1998 SY ₁₀₆
1998 SG ₁₀₇	15.7	0.15	20000226	101.10705	117.19816	301.68386	1.03851	0.2005029	2.4379881	39	4	1994–2000	0.67	M-v	2	Williams	35634	1998 SG ₁₀₇
1998 SK ₁₀₇	16.1	0.15	20000226	132.52089	202.23362	192.84702	5.55619	0.2520439	2.2851916	47	4	1960–2000	0.50	M-v	2	Williams	35719	1998 SK ₁₀₇
1998 SM ₁₀₇	13.8	0.15	20000226	158.14886	356.00945	333.78535	2.67135	0.0966859	2.5722279	75	3	1994–2000	0.55	M-v	3	Williams	39540	1998 SM ₁₀₇
1998 SR ₁₀₇	14.0	0.15	20000226	344.09842	187.67747	351.51231	4.00420	0.0878438	2.2753441	93	2	1998–2000	0.52	M-v	3	Williams	39540	1998 SR ₁₀₇
1998 SA ₁₀₉	14.0	0.15	20000226	70.88356	149.52858	313.10374	3.65431	0.1146161	2.2923024	65	3	1993–2000	0.57	M-v	2	Williams	39540	1998 SA ₁₀₉
1998 SJ ₁₀₉	14.2	0.15	20000226	69.43533	226.52042	211.56655	14.67593	0.1853746	2.6857717	55	3	1996–2000	0.74	M-v	2	Williams	39540	1998 SJ ₁₀₉
1998 SA ₁₁₀	14.4	0.15	20000226	185.31454	339.45727	343.17263	6.94313	0.1341496	2.3083383	62	2	1998–2000	0.50	M-v	4	Williams	39540	1998 SA ₁₁₀
1998 SD ₁₁₀	14.1	0.15	20000226	328.67635	329.97035	224.87281	8.34496	0.0361071	2.2754629	79	3	1997–2000	0.56	M-v	3	Williams	39540	1998 SD ₁₁₀
1998 ST ₁₁₀	13.8	0.15	20000226	253.50683	3.10148	229.00563	2.54165	0.0655240	2.6876643	53	2	1998–2000	0.53	M-v	4	Williams	38511	1998 ST ₁₁₀
1998 SV ₁₁₀	15.0	0.15	20000226	51.43260	115.26838	2.57800	6.89937	0.0819738	2.3005346	80	2	1998–2000	0.61	M-v	3	Williams	39250	1998 SV ₁₁₀

1998 SE ₁₁₁	15.1	0.15	20000226	107.22855	198.47588	219.21186	1.79309	0.1942943	2.3775095	78	3	1987-2000	0.56	M-v	3	Williams	39541	1998 SE ₁₁₁
1998 SR ₁₁₁	13.2	0.15	20000226	18.36528	104.09944	16.98246	13.42911	0.1007066	2.6743018	79	3	1996-2000	0.56	M-v	2	Williams	39541	1998 SR ₁₁₁
1998 SA ₁₁₂	13.3	0.15	20000226	37.98367	281.76838	155.98727	5.99532	0.1368647	3.1698355	77	2	1998-2000	0.57	M-v	3	Williams	38792	1998 SA ₁₁₂
1998 SC ₁₁₂	14.3	0.15	20000226	315.50642	153.81469	37.76896	7.05650	0.0680697	2.4100890	58	2	1998-2000	0.75	M-v	4	Williams	39541	1998 SC ₁₁₂
1998 SD ₁₁₂	15.1	0.15	20000226	137.59360	239.94432	129.39700	2.90388	0.1855809	2.3980127	54	3	1997-2000	0.68	M-v	3	Williams	39541	1998 SD ₁₁₂
1998 SF ₁₁₄	13.6	0.15	20000226	120.05557	307.77523	38.01296	9.91928	0.0921183	2.9814528	41	2	1998-2000	0.66	M-v	3	Williams	39250	1998 SF ₁₁₄
1998 SR ₁₁₄	15.3	0.15	20000226	219.28940	170.15910	117.74472	3.00809	0.1348480	2.2513508	55	2	1998-2000	0.63	M-v	4	Williams	39541	1998 SR ₁₁₄
1998 SJ ₁₁₅	13.8	0.15	20000226	65.10206	103.44078	314.80174	1.01006	0.1022446	2.9453930	75	4	1995-2000	0.67	M-v	1	Williams	39541	1998 SJ ₁₁₅
1998 SR ₁₁₅	13.1	0.15	20000226	70.22993	53.02444	5.92289	12.21912	0.1099802	2.8607129	61	3	1989-2000	0.53	M-v	2	Williams	39250	1998 SR ₁₁₅
1998 SW ₁₁₅	15.0	0.15	20000226	257.34425	312.12067	290.92469	1.68908	0.1315227	2.4068639	41	2	1998-2000	0.64	M-v	4	Williams	38511	1998 SW ₁₁₅
1998 SX ₁₁₅	14.5	0.15	20000226	1.70979	162.43434	343.10229	2.62471	0.0475347	2.5229586	112	2	1998-2000	0.51	M-v	4	Williams	39541	1998 SX ₁₁₅
1998 SY ₁₁₅	13.8	0.15	20000226	235.39829	242.29935	10.39677	13.44790	0.1468585	2.5281557	53	4	1990-2000	0.60	M-v	3	Williams	39541	1998 SY ₁₁₅
1998 SH ₁₁₆	13.4	0.15	20000226	90.24605	156.44070	241.65508	5.07679	0.0625361	2.7826732	90	3	1992-2000	0.55	M-v	2	Williams	39541	1998 SH ₁₁₆
1998 SM ₁₁₆	13.1	0.15	20000226	70.32152	193.70469	229.59598	5.42391	0.1046346	2.7974334	136	2	1998-2000	0.56	M-v	3	Williams	39541	1998 SM ₁₁₆
1998 SR ₁₁₆	13.5	0.15	20000226	37.88443	180.72955	293.19003	3.60367	0.0960456	2.5665173	90	3	1993-2000	0.62	M-v	2	Williams	39541	1998 SR ₁₁₆
1998 SE ₁₁₇	13.5	0.15	20000226	20.41305	276.66032	232.03733	7.05498	0.1568226	2.3984551	71	3	1985-2000	0.55	M-v	2	Williams	39541	1998 SE ₁₁₇
1998 SL ₁₁₇	13.7	0.15	20000226	287.46292	354.51450	214.75649	10.07320	0.1030717	2.5917779	50	2	1998-2000	0.71	M-v	4	Williams	38512	1998 SL ₁₁₇
1998 SS ₁₁₇	14.2	0.15	20000226	252.82246	307.03772	303.86079	2.64951	0.1581547	2.3313749	70	3	1991-2000	0.66	M-v	2	Williams	39541	1998 SS ₁₁₇
1998 SV ₁₁₇	14.7	0.15	20000226	111.00831	77.33454	327.48507	2.32847	0.1655779	2.4559035	74	2	1998-2000	0.60	M-v	3	Williams	39251	1998 SV ₁₁₇
1998 SA ₁₁₈	13.3	0.15	20000226	70.01863	66.25111	4.86776	8.66476	0.1055598	2.6900622	78	2	1998-2000	0.52	M-v	3	Williams	39541	1998 SA ₁₁₈
1998 SC ₁₁₈	16.2	0.15	20000226	155.61528	103.63684	246.30591	1.25115	0.2079579	2.3628267	32	3	1994-2000	0.75	M-v	4	Williams	38792	1998 SC ₁₁₈
1998 SK ₁₁₈	13.8	0.15	20000226	246.20641	250.26173	10.78510	6.98861	0.1025572	2.3413013	59	3	1991-2000	0.72	M-v	3	Williams	39541	1998 SK ₁₁₈
1998 SL ₁₁₈	14.6	0.15	20000226	74.10074	51.81998	2.02221	1.39535	0.2433924	3.0176136	46	2	1998-2000	0.60	M-v	4	Williams	39251	1998 SL ₁₁₈
1998 ST ₁₁₈	15.2	0.15	20000226	18.54961	117.83388	34.32427	2.78081	0.0906059	2.2758935	81	2	1998-2000	0.68	M-v	4	Williams	39251	1998 ST ₁₁₈
1998 SY ₁₁₈	14.7	0.15	20000226	44.76497	276.25299	189.29517	1.33043	0.1148461	2.5854399	85	3	1993-2000	0.59	M-v	2	Williams	39251	1998 SY ₁₁₈
1998 ST ₁₁₉	14.0	0.15	20000226	51.69937	41.35114	56.72137	4.83513	0.1290736	2.5979209	78	3	1997-2000	0.64	M-v	2	Williams	39541	1998 ST ₁₁₉
1998 SB ₁₂₁	14.2	0.15	20000226	38.80142	284.75309	177.58659	6.46690	0.1071164	2.6951478	47	2	1998-2000	0.59	M-v	3	Williams	39541	1998 SB ₁₂₁
1998 SF ₁₂₁	14.1	0.15	20000226	358.45098	231.64294	297.37763	4.23242	0.0772220	2.3154331	69	2	1998-2000	0.61	M-v	3	Williams	39541	1998 SF ₁₂₁
1998 SB ₁₂₂	15.2	0.15	20000226	142.54473	55.41788	309.63739	2.21822	0.0756215	2.4601942	46	2	1998-2000	0.66	M-v	4	Williams	39252	1998 SB ₁₂₂
1998 SC ₁₂₂	14.3	0.15	20000226	97.09608	65.72362	351.01729	4.34347	0.1542844	2.5322457	93	6	1954-2000	0.63	M-v	2	Williams	39541	1998 SC ₁₂₂
1998 SW ₁₂₂	15.3	0.15	20000226	124.38895	114.73565	277.47055	0.70736	0.2159487	2.4181902	66	3	1987-2000	0.62	M-v	3	Williams	39541	1998 SW ₁₂₂
1998 SY ₁₂₂	15.3	0.15	20000226	125.56818	19.65937	13.41327	6.82926	0.1159695	2.3663798	50	3	1971-2000	0.66	M-v	3	Williams	39541	1998 SY ₁₂₂
1998 SJ ₁₂₃	14.3	0.15	20000226	273.58408	226.82311	13.75249	6.24056	0.0579117	2.3450633	60	2	1998-2000	0.59	M-v	4	Williams	39252	1998 SJ ₁₂₃
1998 SX ₁₂₃	15.2	0.15	20000226	105.79800	25.20880	39.02390	2.64839	0.1808099	2.3533217	81	4	1971-2000	0.61	M-v	2	Williams	35719	1998 SX ₁₂₃
1998 SE ₁₂₄	15.4	0.15	20000226	78.24976	264.04304	179.90117	6.41491	0.0849250	2.3863550	39	2	1998-2000	0.82	M-v	4	Williams	39252	1998 SE ₁₂₄
1998 SL ₁₂₄	15.0	0.15	20000226	318.57105	33.31238	176.33964	5.86365	0.1192761	2.2075055	55	3	1997-2000	0.59	M-v	3	Williams	39541	1998 SL ₁₂₄
1998 SU ₁₂₄	13.5	0.15	20000226	59.54568	284.98892	141.65809	2.80625	0.0478320	2.8327407	92	3	1996-2000	0.61	M-v	2	Williams	39541	1998 SU ₁₂₄
1998 SD ₁₂₅	13.6	0.15	20000226	29.57970	61.61713	31.06107	11.26173	0.0757203	2.9936776	46	2	1998-2000	0.71	M-v	3	Williams	39252	1998 SD ₁₂₅
1998 SN ₁₂₅	14.4	0.15	20000226	23.54668	70.52867	54.84098	6.62740	0.0615963	2.5082760	56	3	1990-2000	0.73	M-v	3	Williams	39541	1998 SN ₁₂₅
1998 SE ₁₂₆	14.4	0.15	20000226	56.27830	35.68678	71.16804	5.76405	0.2696446	2.5910154	53	3	1996-2000	0.68	M-v	2	Williams	34024	1998 SE ₁₂₆
1998 SV ₁₂₆	14.2	0.15	20000226	62.17881	318.19068	104.06699	5.90729	0.0434183	2.8065409	63	3	1996-2000	0.71	M-v	2	Williams	39541	1998 SV ₁₂₆
1998 SX ₁₂₆	13.2	0.15	20000226	193.46167	224.16652	58.46100	8.32068	0.0848767	2.7207867	70	3	1992-2000	0.53	M-v	3	Williams	38792	1998 SX ₁₂₆
1998 SK ₁₂₇	14.7	0.15	20000226	164.96638	186.51932	149.78715	5.27585	0.2690390	2.3136803	54	2	1998-2000	0.68	M-v	3	Williams	39252	1998 SK ₁₂₇
1998 SU ₁₂₇	14.2	0.15	20000226	346.02826	330.91516	174.07400	14.14667	0.1060298	2.8851921	38	2	1998-2000	0.77	M-v	3	Williams	39541	1998 SU ₁₂₇
1998 SY ₁₂₈	14.5	0.15	20000226	359.84981	122.38837	37.92468	6.85666	0.0381193	2.3522765	65	2	1998-2000	0.58	M-v	3	Williams	39253	1998 SY ₁₂₈
1998 SB ₁₂₉	13.8	0.15	20000226	259.11576	76.99653	166.61519	6.55936	0.1006035	2.4342627	72	2	1998-2000	0.65	M-v	3	Williams	39541	1998 SB ₁₂₉
1998 SM ₁₂₉	14.6	0.15	20000226	163.24807	149.98074	173.10537	2.48342	0.0767345	2.6830015	41	2	1998-2000	0.65	M-v	4	Williams	38514	1998 SM ₁₂₉
1998 SU ₁₂₉	12.4	0.15	20000226	185.80632	146.21247	125.55027	1.80193	0.1400652	3.0922296	92	3	1992-2000	0.58	M-v	3	Williams	38793	1998 SU ₁₂₉
1998 SW ₁₂₉	13.5	0.15	20000226	35.12885	94.68699	20.70879	13.13723	0.1428445	2.6762749	74	3	1996-2000	0.57	M-v	2	Williams	39541	1998 SW ₁₂₉
1998 SJ ₁₃₀	14.7	0.15	20000226	273.45359	36.64147	195.32625	5.54007	0.0945164	2.4457902	41	2	1998-2000	0.74	M-v	4	Williams	39253	1998 SJ ₁₃₀
1998 SS ₁₃₀	14.3	0.15	20000226	275.15037	262.10931	344.35094	2.55096	0.1306711	2.2052052	91	3	1991-2000	0.46	M-v	3	Williams	39541	1998 SS ₁₃₀
1998 ST ₁₃₀	13.6	0.15	20000226	328.75371	322.05687	204.02690	12.69181	0.0209970	2.7065069	68	2	1998-2000	0.75	M-v	3	Williams	39541	1998 ST ₁₃₀
1998 SB ₁₃₁	13.7	0.15	20000226	122.65911	79.88049	288.42257	1.72568	0.0539142	2.7322273	97	2	1998-2000	0.64	M-v	3	Williams	39541	1998 SB ₁₃₁

1998 SN ₁₃₁	13.6	0.15	20000226	40.82174	119.32586	340.52885	6.90593	0.0773850	2.7608303	115	2	1998–2000	0.48	M-v	3	Williams	39541	1998 SN ₁₃₁
1998 ST ₁₃₁	13.9	0.15	20000226	351.79166	257.05540	292.25247	4.92119	0.1234485	2.1829620	62	4	1991–2000	0.61	M-v	2	Williams	39541	1998 ST ₁₃₁
1998 SC ₁₃₂	15.3	0.15	20000226	218.51590	347.72355	304.58663	4.04057	0.1962481	2.2191608	51	2	1998–2000	0.59	M-v	4	Williams	39541	1998 SC ₁₃₂
1998 SE ₁₃₂	12.4	0.15	20000226	178.68439	80.85182	219.94173	12.46230	0.0698003	2.8484352	107	3	1992–2000	0.64	M-v	2	Williams	39541	1998 SE ₁₃₂
1998 SK ₁₃₂	13.8	0.15	20000226	344.02270	215.30346	315.74196	4.24324	0.0950542	2.5237577	100	3	1992–2000	0.63	M-v	3	Williams	39542	1998 SK ₁₃₂
1998 SR ₁₃₂	14.9	0.15	20000226	64.31714	183.94382	287.59480	3.00706	0.0864529	2.2940053	60	3	1993–2000	0.62	M-v	2	Williams	38793	1998 SR ₁₃₂
1998 SS ₁₃₂	14.6	0.15	20000226	86.67764	84.33410	353.91978	7.36278	0.0835708	2.3961086	78	3	1994–2000	0.70	M-v	3	Williams	39542	1998 SS ₁₃₂
1998 ST ₁₃₂	13.8	0.15	20000226	39.80782	146.07500	307.37214	3.36044	0.0231813	2.7910761	97	3	1989–2000	0.62	M-v	3	Williams	39542	1998 ST ₁₃₂
1998 SU ₁₃₂	14.9	0.15	20000226	123.94241	151.16644	235.22109	4.45496	0.1024840	2.4876740	72	2	1998–2000	0.63	M-v	3	Williams	39542	1998 SU ₁₃₂
1998 SV ₁₃₂	13.1	0.15	20000226	107.49548	136.36938	234.50934	6.47137	0.0670939	2.9987426	72	2	1998–2000	0.57	M-v	3	Williams	38793	1998 SV ₁₃₂
1998 SX ₁₃₂	14.0	0.15	20000226	274.20266	261.45469	330.42531	3.11449	0.0267900	2.5179803	116	3	1996–2000	0.57	M-v	2	Williams	39542	1998 SX ₁₃₂
1998 SG ₁₃₃	14.3	0.15	20000226	35.35791	263.24981	208.14535	13.07602	0.0473366	2.6045999	64	3	1977–2000	0.71	M-v	3	Williams	39542	1998 SG ₁₃₃
1998 SH ₁₃₃	12.8	0.15	20000226	303.79308	325.89119	209.50938	13.49991	0.0989533	3.1461945	46	2	1998–2000	0.62	M-v	3	Williams	37784	1998 SH ₁₃₃
1998 SN ₁₃₃	14.0	0.15	20000226	49.66151	231.08173	212.21857	4.60344	0.2144986	3.1219532	53	2	1998–2000	0.75	M-v	3	Williams	39542	1998 SN ₁₃₃
1998 SQ ₁₃₃	15.0	0.15	20000226	82.89706	80.92802	8.91537	2.42790	0.1766147	2.4020170	53	3	1994–2000	0.77	M-v	4	Williams	35719	1998 SQ ₁₃₃
1998 SS ₁₃₃	14.3	0.15	20000226	52.19795	79.24046	13.16420	3.64670	0.0683016	2.6542097	68	2	1998–2000	0.70	M-v	3	Williams	39542	1998 SS ₁₃₃
1998 SB ₁₃₄	15.0	0.15	20000226	108.59185	226.03939	192.80588	5.88393	0.0659188	2.3060054	68	2	1998–2000	0.68	M-v	3	Williams	39254	1998 SB ₁₃₄
1998 SE ₁₃₄	14.3	0.15	20000226	128.73228	168.53355	196.71553	4.14310	0.1173775	2.6442436	70	2	1998–2000	0.60	M-v	4	Williams	39542	1998 SE ₁₃₄
1998 SH ₁₃₄	13.5	0.15	20000226	38.58861	286.95456	154.18248	0.91168	0.1214447	3.2371041	89	3	1981–2000	0.70	M-v	2	Williams	38793	1998 SH ₁₃₄
1998 SN ₁₃₄	14.1	0.15	20000226	112.99555	12.01227	30.01143	5.05633	0.0807458	2.4325341	75	3	1960–2000	0.57	M-v	3	Williams	39542	1998 SN ₁₃₄
1998 SO ₁₃₄	15.2	0.15	20000226	91.94193	260.88445	183.55597	5.23050	0.1196779	2.2860049	50	4	1991–2000	0.82	M-v	2	Williams	36085	1998 SO ₁₃₄
1998 ST ₁₃₄	14.4	0.15	20000226	84.29504	255.60782	160.32544	2.12427	0.0804240	2.6734038	65	2	1998–2000	0.66	M-v	4	Williams	39254	1998 ST ₁₃₄
1998 SW ₁₃₄	14.3	0.15	20000226	108.82928	199.51941	182.43878	7.70501	0.0794695	2.7450372	45	2	1998–2000	0.73	M-v	4	Williams	39542	1998 SW ₁₃₄
1998 SB ₁₃₅	14.2	0.15	20000226	80.67624	258.38363	139.27092	3.22676	0.1700617	3.0717075	60	2	1998–2000	0.61	M-v	3	Williams	38516	1998 SB ₁₃₅
1998 SJ ₁₃₅	14.2	0.15	20000226	174.13984	148.54901	163.81294	5.16689	0.1782453	2.5209975	44	2	1998–2000	0.58	M-v	4	Williams	38516	1998 SJ ₁₃₅
1998 SR ₁₃₅	13.9	0.15	20000226	113.55567	252.81548	96.41764	3.95389	0.1632919	3.0999810	48	2	1998–2000	0.55	M-v	4	Williams	37785	1998 SR ₁₃₅
1998 ST ₁₃₅	15.1	0.15	20000226	169.03954	174.10497	168.06021	6.73231	0.1374647	2.3249034	72	2	1998–2000	0.52	M-v	4	Williams	39254	1998 ST ₁₃₅
1998 SB ₁₃₆	15.0	0.15	20000226	156.03642	208.95369	137.40482	3.60744	0.1825133	2.4002939	45	4	1993–2000	0.65	M-v	2	Williams	39542	1998 SB ₁₃₆
1998 SK ₁₃₇	14.6	0.15	20000226	237.54362	156.67963	94.48260	5.69861	0.0821817	2.6327235	37	2	1998–2000	0.52	M-v	4	Williams	38793	1998 SK ₁₃₇
1998 SM ₁₃₇	14.1	0.15	20000226	41.09917	37.08553	89.57204	5.62265	0.0779149	2.3313275	43	3	1977–2000	0.71	M-v	3	Williams	34024	1998 SM ₁₃₇
1998 SQ ₁₃₇	13.7	0.15	20000226	185.66629	215.96231	80.48987	5.50718	0.0465690	2.7951623	53	2	1998–2000	0.69	M-v	3	Williams	38793	1998 SQ ₁₃₇
1998 SX ₁₃₇	13.4	0.15	20000226	41.25021	17.26920	68.93309	3.18168	0.0206831	2.8633078	98	3	1993–2000	0.67	M-v	2	Williams	39542	1998 SX ₁₃₇
1998 SC ₁₃₈	14.2	0.15	20000226	82.85816	225.65414	178.06155	1.96264	0.0655945	2.8998767	71	4	1971–2000	0.66	M-v	2	Williams	39542	1998 SC ₁₃₈
1998 SN ₁₃₈	14.0	0.15	20000226	25.70748	98.42100	14.67432	4.21705	0.2046760	3.1061021	77	3	1992–2000	0.64	M-v	2	Williams	39542	1998 SN ₁₃₈
1998 ST ₁₃₈	15.3	0.15	20000226	145.40492	358.19060	8.19753	7.61769	0.1384691	2.4077326	66	2	1998–2000	0.65	M-v	4	Williams	39255	1998 ST ₁₃₈
1998 SW ₁₃₈	14.7	0.15	20000226	65.99766	111.03095	334.32994	2.34945	0.1066145	2.6241923	54	2	1998–2000	0.69	M-v	3	Williams	39255	1998 SW ₁₃₈
1998 SY ₁₃₈	14.6	0.15	20000226	274.72490	229.96606	8.98638	7.28094	0.0782180	2.3920076	68	2	1998–2000	0.78	M-v	4	Williams	39542	1998 SY ₁₃₈
1998 SB ₁₃₉	13.7	0.15	20000226	120.78761	116.11274	252.19021	3.33611	0.0861800	2.7846035	89	3	1996–2000	0.55	M-v	3	Williams	39542	1998 SB ₁₃₉
1998 SQ ₁₃₉	13.2	0.15	20000226	66.07838	168.08193	250.29108	8.37818	0.0784620	3.0741495	58	2	1998–2000	0.61	M-v	3	Williams	38793	1998 SQ ₁₃₉
1998 SR ₁₃₉	13.2	0.15	20000226	264.46223	312.17554	275.26529	6.11960	0.1342351	2.7470199	73	2	1998–2000	0.59	M-v	3	Williams	38793	1998 SR ₁₃₉
1998 SY ₁₃₉	12.4	0.15	20000226	198.17037	41.59493	237.01190	10.16358	0.0221235	3.0967884	81	3	1996–2000	0.68	M-v	2	Williams	37787	1998 SY ₁₃₉
1998 SC ₁₄₀	13.9	0.15	20000226	80.11730	217.83725	216.98825	13.61783	0.1471462	2.6165836	55	2	1998–2000	0.62	M-v	3	Williams	39256	1998 SC ₁₄₀
1998 ST ₁₄₀	15.8	0.15	20000226	122.41116	83.04390	318.84871	1.79890	0.1849413	2.3906990	37	3	1991–2000	0.65	M-v	3	Williams	35720	1998 ST ₁₄₀
1998 SX ₁₄₀	14.4	0.15	20000226	247.99114	271.24426	342.94520	1.83890	0.1784490	2.4017550	68	3	1989–2000	0.66	M-v	3	Williams	38793	1998 SX ₁₄₀
1998 SN ₁₄₁	13.6	0.15	20000226	322.43687	133.33960	27.70963	10.39865	0.0260769	2.9830456	51	2	1998–2000	0.79	M-v	4	Williams	38516	1998 SN ₁₄₁
1998 SG ₁₄₂	14.9	0.15	20000226	230.79866	148.27132	123.85549	5.55665	0.1700624	2.3292176	41	2	1998–2000	0.75	M-v	4	Williams	38517	1998 SG ₁₄₂
1998 SP ₁₄₂	16.5	0.15	19980924	333.86452	248.27203	168.77624	6.36666	0.2375331	2.2667363	17	1	33 days	0.62		D	Williams		1998 SP ₁₄₂
1998 ST ₁₄₂	14.9	0.15	20000226	206.91680	318.19953	356.65317	1.34864	0.1319711	2.2087073	97	4	1991–2000	0.57	M-v	2	Williams	39542	1998 ST ₁₄₂
1998 SD ₁₄₄	14.1	0.15	20000226	37.96731	279.27204	199.38574	21.75459	0.0795095	2.5442507	55	3	1990–2000	0.79	M-v	2	Williams	39542	1998 SD ₁₄₄
1998 SE ₁₄₄	12.8	0.15	20000226	66.96892	58.43696	25.10988	8.83914	0.2149670	2.7931632	85	3	1984–2000	0.59	M-v	2	Williams	39542	1998 SE ₁₄₄
1998 SM ₁₄₄	15.2	0.15	20000226	82.84521	243.55210	210.03303	2.23545	0.1794321	2.4057817	71	5	1992–2000	0.63	M-v	1	Williams	35720	1998 SM ₁₄₄
1998 SP ₁₄₄	13.9	0.15	20000226	111.85824	177.34543	206.31222	4.72764	0.0934869	2.7375186	60	3	1996–2000	0.56	M-v	4	Williams	39542	1998 SP ₁₄₄
1998 SQ ₁₄₄	13.6	0.15	20000226	95.23005	158.78309	236.95580	0.68623	0.0824878	2.8569777	92	3	1993–2000	0.65	M-v	3	Williams	39542	1998 SQ ₁₄₄

1998 SR ₁₄₄	14.0	0.15	20000226	343.84699	352.67552	194.87087	6.87048	0.0763369	2.2938155	82	2	1998–2000	0.72	M-v	3	Williams	39256	1998 SR ₁₄₄
1998 SX ₁₄₄	14.2	0.15	20000226	131.50954	212.35843	116.33369	2.32355	0.1905889	3.0995248	38	2	1998–2000	0.74	M-v	5	Williams	38517	1998 SX ₁₄₄
1998 SE ₁₄₅	14.4	0.15	19981014	50.61062	142.66840	179.01399	4.02899	0.1444849	2.5454411	19	1	52 days	0.87		D	Williams		1998 SE ₁₄₅
1998 SH ₁₄₅	16.1	0.15	20000226	130.56868	358.12210	30.34761	2.77500	0.2009890	2.4078954	39	4	1983–2000	0.78	M-v	2	Williams	35720	1998 SH ₁₄₅
1998 SM ₁₄₅	13.7	0.15	20000226	19.62947	121.66325	35.36850	6.92417	0.1284560	2.3376777	84	2	1998–2000	0.63	M-v	3	Williams	39542	1998 SM ₁₄₅
1998 SZ ₁₄₅	14.5	0.15	20000226	158.57715	162.50037	194.39445	6.90166	0.2087524	2.3226100	47	2	1998–2000	0.66	M-v	3	Williams	39542	1998 SZ ₁₄₅
1998 SB ₁₄₆	14.8	0.15	20000226	331.35363	183.08685	17.35737	3.63314	0.0945347	2.2886735	89	2	1998–2000	0.55	M-v	3	Williams	39256	1998 SB ₁₄₆
1998 SK ₁₄₆	12.8	0.15	20000226	59.35058	244.71872	185.61698	5.94775	0.1588980	3.1105345	89	3	1984–2000	0.58	M-v	2	Williams	39542	1998 SK ₁₄₆
1998 SO ₁₄₆	14.2	0.15	20000226	88.61613	330.23032	82.73235	3.12727	0.0747879	2.7155116	64	4	1989–2000	0.73	M-v	1	Williams	39257	1998 SO ₁₄₆
1998 SS ₁₄₆	12.9	0.15	20000226	205.56411	85.66926	190.69804	9.64577	0.0259218	2.9896306	55	2	1998–2000	0.78	M-v	4	Williams	38794	1998 SS ₁₄₆
1998 ST ₁₄₆	14.3	0.15	20000226	179.02281	286.05030	61.86613	2.31271	0.1644781	2.2002823	76	3	1997–2000	0.67	M-v	3	Williams	39542	1998 ST ₁₄₆
1998 SU ₁₄₇	13.8	0.15	20000226	169.68158	256.51839	71.35743	3.41498	0.0480977	2.6666073	60	3	1994–2000	0.64	M-v	4	Williams	39542	1998 SU ₁₄₇
1998 SV ₁₄₇	14.1	0.15	20000226	44.35507	86.61026	27.48912	13.41587	0.1439005	2.6789858	74	2	1998–2000	0.59	M-v	3	Williams	39257	1998 SV ₁₄₇
1998 SK ₁₅₁	15.6	0.15	20000226	47.40187	83.35295	32.74787	2.82829	0.1595951	2.3680698	60	2	1998–2000	0.58	M-v	4	Williams	39258	1998 SK ₁₅₁
1998 SQ ₁₅₄	14.0	0.15	20000226	316.33827	233.80037	303.47668	3.03723	0.1014610	2.6834365	74	3	1987–2000	0.63	M-v	3	Williams	38794	1998 SQ ₁₅₄
1998 SP ₁₅₆	15.4	0.15	20000226	110.22441	146.99142	270.06719	1.83681	0.1492389	2.3340239	63	6	1987–2000	0.58	M-v	2	Williams	39258	1998 SP ₁₅₆
1998 SS ₁₅₆	15.9	0.15	20000226	210.83136	43.37239	280.30339	1.82723	0.0787147	2.1010957	37	3	1997–2000	0.73	M-v	3	Williams	39542	1998 SS ₁₅₆
1998 SW ₁₅₆	14.3	0.15	20000226	161.51806	350.58800	336.92039	6.30450	0.1457469	2.5732849	49	2	1998–2000	0.70	M-v	4	Williams	39542	1998 SW ₁₅₆
1998 SD ₁₅₉	13.5	0.15	20000226	43.88822	130.33599	323.23680	3.27621	0.0539260	2.7318363	106	2	1998–2000	0.55	M-v	3	Williams	39542	1998 SD ₁₅₉
1998 SS ₁₆₁	14.9	0.15	20000226	103.96658	276.17089	145.09343	2.50705	0.2023372	2.4269776	76	3	1994–2000	0.73	M-v	3	Williams	39542	1998 SS ₁₆₁
1998 SX ₁₆₁	14.6	0.15	20000226	116.86846	243.31853	146.68527	3.99138	0.1721688	2.5224736	55	2	1998–2000	0.70	M-v	4	Williams	39542	1998 SX ₁₆₁
1998 SS ₁₆₂	13.8	0.15	20000226	331.07627	146.98600	8.34370	10.25024	0.0247095	2.9746409	30	2	1998–2000	0.69	M-v	4	Williams	38519	1998 SS ₁₆₂
1998 SA ₁₆₃	13.9	0.15	20000226	330.27750	336.53543	198.15911	5.74848	0.0957304	2.6731468	73	3	1996–2000	0.63	M-v	3	Williams	39542	1998 SA ₁₆₃
1998 SE ₁₆₃	14.7	0.15	20000226	226.03909	158.21172	120.11929	5.35375	0.1836253	2.2944804	66	4	1993–2000	0.64	M-v	1	Williams	38794	1998 SE ₁₆₃
1998 SU ₁₆₃	13.3	0.15	20000226	221.30798	223.83764	51.60961	9.65660	0.1467679	2.5539122	66	3	1997–2000	0.70	M-v	3	Williams	39542	1998 SU ₁₆₃
1998 SX ₁₆₃	13.1	0.15	20000226	146.42985	282.54580	46.70525	11.50790	0.0905697	3.0897996	56	3	1996–2000	0.43	M-v	3	Williams	38794	1998 SX ₁₆₃
1998 SC ₁₆₄	14.3	0.15	20000226	226.78518	138.87045	149.12215	4.61566	0.1498196	2.3240497	85	2	1998–2000	0.54	M-v	3	Williams	39542	1998 SC ₁₆₄
1998 SK ₁₆₄	12.9	0.15	20000226	329.12126	83.30189	104.07838	7.54794	0.1447476	2.6636323	114	3	1994–2000	0.61	M-v	2	Williams	39542	1998 SK ₁₆₄
1998 SV ₁₆₄	13.6	0.15	20000226	228.81201	168.56922	98.44997	7.95922	0.0712593	2.4103175	79	3	1990–2000	0.54	M-v	2	Williams	38794	1998 SV ₁₆₄
1998 TA	13.5	0.15	20000226	256.67579	258.09697	0.31870	7.34519	0.0894885	2.3149787	157	2	1998–2000	0.61	M-v	3	Williams	39543	1998 TA
1998 TB	13.6	0.15	20000226	93.77374	352.75527	110.30383	5.95026	0.1156613	2.4365068	84	4	1979–2000	0.63	M-v	2	Williams	34305	1998 TB
1998 TD	14.8	0.15	20000226	213.01519	300.78732	347.70700	4.67724	0.1842045	2.2868775	45	2	1998–2000	0.67	M-v	4	Williams	39543	1998 TD
1998 TE	14.7	0.15	20000226	117.17929	189.28003	233.32762	5.64051	0.1017766	2.2640442	87	2	1998–2000	0.60	M-v	3	Williams	39259	1998 TE
1998 TF	13.2	0.15	20000226	20.59894	122.79000	16.90514	7.90237	0.1776849	2.7168506	131	2	1998–2000	0.50	M-v	3	Williams	39543	1998 TF
1998 TK	12.6	0.15	20000226	281.44793	343.19823	220.97651	10.08056	0.0671622	3.0450705	68	3	1996–2000	0.61	M-v	3	Williams	38794	1998 TK
1998 TU	15.4	0.15	20000226	95.44775	56.41563	31.78057	5.99145	0.1081931	2.2672192	44	3	1993–2000	0.53	M-v	3	Williams	35720	1998 TU
1998 TZ	15.9	0.15	20000226	269.44507	215.77987	43.75828	1.86406	0.1738595	2.1615167	34	3	1995–2000	0.51	M-v	3	Williams	39543	1998 TZ
1998 TU ₁	13.9	0.15	20000226	119.52788	161.33839	216.45227	13.07639	0.1820682	2.5832600	68	3	1994–2000	0.65	M-v	2	Williams	39543	1998 TU ₁
1998 TW ₁	13.8	0.15	20000226	116.32447	332.65872	54.32560	10.14304	0.1454288	2.7375787	87	2	1998–2000	0.50	M-v	3	Williams	39259	1998 TW ₁
1998 TZ ₁	13.7	0.15	20000226	135.29776	207.10913	171.68381	12.74041	0.0133499	2.5678271	94	5	1973–2000	0.64	M-v	2	Williams	39543	1998 TZ ₁
1998 TC ₂	14.2	0.15	20000226	29.08073	105.84680	349.54915	4.47122	0.1223831	3.2082947	43	2	1998–2000	0.62	M-v	4	Williams	39543	1998 TC ₂
1998 TL ₂	15.2	0.15	20000226	151.57213	14.02653	3.45983	4.20440	0.1699416	2.2700518	83	3	1991–2000	0.54	M-v	3	Williams	39260	1998 TL ₂
1998 TN ₂	15.4	0.15	20000226	36.19066	122.92880	13.20560	6.86889	0.0719461	2.3859896	68	2	1998–2000	0.48	M-v	3	Williams	39260	1998 TN ₂
1998 TQ ₃	13.8	0.15	20000226	127.67786	2.34510	34.87330	13.80582	0.2042529	2.3890677	88	4	1950–2000	0.67	M-v	2	Williams	39260	1998 TQ ₃
1998 TJ ₄	13.5	0.15	20000226	32.30054	99.66053	353.09386	1.17556	0.0202919	3.0332440	48	2	1998–2000	0.54	M-v	3	Williams	38520	1998 TJ ₄
1998 TD ₅	14.5	0.15	20000226	110.99746	333.88899	80.88279	4.33571	0.1271060	2.4629384	77	4	1992–2000	0.56	M-v	3	Williams	39543	1998 TD ₅
1998 TK ₅	13.9	0.15	20000226	69.98768	45.78078	59.25033	7.23817	0.0834847	2.4113147	66	3	1977–2000	0.54	M-v	2	Williams	39543	1998 TK ₅
1998 TN ₅	12.2	0.15	20000226	328.00806	315.68439	212.98103	13.17757	0.0937361	3.1177791	94	2	1998–2000	0.53	M-v	3	Williams	39543	1998 TN ₅
1998 TO ₅	13.8	0.15	20000226	94.52264	212.81984	211.70045	11.13907	0.1628094	2.6256150	64	2	1998–2000	0.54	M-v	3	Williams	39261	1998 TO ₅
1998 TT ₅	12.5	0.15	20000226	3.03128	82.51431	62.30868	11.93123	0.2066192	3.1812696	62	3	1995–2000	0.59	M-v	2	Williams	39543	1998 TT ₅
1998 TA ₆	13.2	0.15	20000226	30.51772	308.63709	183.92886	12.68115	0.1156381	2.6619602	75	3	1997–2000	0.53	M-v	2	Williams	39543	1998 TA ₆
1998 TC ₆	14.5	0.15	20000226	132.08203	235.92812	160.36401	2.99619	0.0348696	2.3987978	84	3	1990–2000	0.54	M-v	4	Williams	39543	1998 TC ₆
1998 TQ ₆	13.7	0.15	20000226	170.37167	242.43650	113.15254	7.75296	0.1424914	2.3492020	103	2	1998–2000	0.49	M-v	3	Williams	39543	1998 TQ ₆

1998 TT ₆	13.7	0.15	20000226	245.82665	217.03179	57.48648	7.18221	0.0940551	2.3913140	64	2	1998-2000	0.41	M-v	3	Williams	39261	1998 TT ₆
1998 TU ₆	14.1	0.15	20000226	150.43690	247.35167	84.16522	2.74924	0.1286109	2.9313760	62	3	1997-2000	0.71	M-v	3	Williams	38794	1998 TU ₆
1998 TY ₆	14.3	0.15	20000226	160.16817	223.64794	104.08387	8.74289	0.2345836	2.6882055	48	2	1998-2000	0.68	M-v	4	Williams	38520	1998 TY ₆
1998 TX ₇	15.7	0.15	20000226	1.95141	346.15649	171.13010	1.19927	0.1212553	2.4163303	100	2	1998-2000	0.47	M-v	4	Williams	39261	1998 TX ₇
1998 TH ₉	15.5	0.15	20000226	143.29738	168.52723	209.10827	1.61528	0.1535458	2.3658887	46	3	1995-2000	0.58	M-v	4	Williams	39543	1998 TH ₉
1998 TN ₁₀	15.5	0.15	20000226	322.04336	183.28221	37.84758	5.11984	0.0989894	2.2217737	51	3	1987-2000	0.57	M-v	4	Williams	39262	1998 TN ₁₀
1998 TV ₁₂	15.2	0.15	20000226	354.04495	328.11591	214.37956	2.07182	0.1123766	2.4114900	66	2	1998-2000	0.46	M-v	4	Williams	39262	1998 TV ₁₂
1998 TX ₁₂	14.6	0.15	20000226	0.61664	333.73901	212.03401	1.82462	0.1689781	2.3406023	56	3	1994-2000	0.51	M-v	2	Williams	38794	1998 TX ₁₂
1998 TV ₁₃	15.1	0.15	20000226	156.32178	150.73307	201.03569	2.02553	0.1660238	2.5205030	41	2	1998-2000	0.71	M-v	4	Williams	39262	1998 TV ₁₃
1998 TH ₁₅	17.4	0.15	20000226	61.39568	261.91993	216.70185	0.59532	0.1375231	2.4549632	22	3	1992-2000	0.34	M-v	2	Williams	35721	1998 TH ₁₅
1998 TH ₁₆	14.2	0.15	20000226	182.71339	255.73185	93.82933	5.14849	0.0490796	2.3136319	70	2	1998-2000	0.62	M-v	3	Williams	39543	1998 TH ₁₆
1998 TK ₁₆	14.5	0.15	20000226	86.21672	302.34557	148.24309	7.08979	0.0815630	2.3703020	48	3	1979-2000	0.63	M-v	3	Williams	39543	1998 TK ₁₆
1998 TZ ₁₇	12.5	0.15	20000226	342.61061	176.91947	342.93546	13.80085	0.0976159	2.6647866	55	2	1998-2000	0.65	M-v	3	Williams	39543	1998 TZ ₁₇
1998 TD ₂₇	13.4	0.15	20000226	253.99284	211.41567	39.71837	6.24466	0.0457399	2.7620399	91	3	1995-2000	0.51	M-v	3	Williams	39543	1998 TD ₂₇
1998 TE ₂₇	14.6	0.15	20000226	97.12435	207.45021	205.41719	0.80841	0.1037683	2.7446477	55	2	1998-2000	0.57	M-v	4	Williams	39262	1998 TE ₂₇
1998 TR ₂₈	14.3	0.15	20000226	156.78274	93.47285	248.53037	1.57459	0.0848778	2.6669149	50	2	1998-2000	0.61	M-v	5	Williams	39543	1998 TR ₂₈
1998 TX ₂₈	13.9	0.15	20000226	38.18205	60.50519	32.43677	7.34601	0.1039025	3.1996753	38	6	1955-2000	0.79	M-v	1	Williams	37288	1998 TX ₂₈
1998 TG ₃₀	15.7	0.15	20000226	146.42717	352.38371	31.04978	1.60701	0.2065124	2.3054219	71	4	1991-2000	0.60	M-v	2	Williams	39543	1998 TG ₃₀
1998 TO ₃₀	14.6	0.15	20000226	89.33722	222.35476	207.21336	3.79624	0.1648541	2.6313444	44	2	1998-2000	0.53	M-v	4	Williams	39263	1998 TO ₃₀
1998 TT ₃₀	14.0	0.15	20000226	253.44020	259.13028	17.15452	5.28380	0.1600540	2.2143173	76	3	1997-2000	0.47	M-v	3	Williams	39543	1998 TT ₃₀
1998 TN ₃₁	14.5	0.15	20000226	12.73726	297.74388	203.30812	10.95602	0.1059350	2.5543416	59	2	1998-2000	0.52	M-v	3	Williams	39263	1998 TN ₃₁
1998 TO ₃₁	14.4	0.15	20000226	55.75168	50.90619	20.55266	7.67719	0.2021023	3.1246278	38	2	1998-2000	0.61	M-v	4	Williams	39264	1998 TO ₃₁
1998 TT ₃₁	13.9	0.15	20000226	87.17769	327.44141	67.21762	10.63556	0.1306495	3.0375768	31	3	1996-2000	0.50	M-v	3	Williams	39543	1998 TT ₃₁
1998 TA ₃₂	13.7	0.15	20000226	219.94001	2.24513	279.77673	2.87472	0.0557103	2.6169703	72	2	1998-2000	0.64	M-v	4	Williams	39543	1998 TA ₃₂
1998 TD ₃₂	14.3	0.15	20000226	31.85454	171.38532	333.07694	4.21605	0.0853891	2.3697668	56	3	1978-2000	0.59	M-v	2	Williams	39543	1998 TD ₃₂
1998 TG ₃₂	14.7	0.15	20000226	138.02275	80.80827	323.99378	2.10301	0.0698277	2.2046480	57	4	1985-2000	0.54	M-v	2	Williams	39543	1998 TG ₃₂
1998 TJ ₃₂	14.0	0.15	20000226	82.96117	163.80085	236.10090	4.48771	0.1629974	3.1102233	39	2	1998-2000	0.65	M-v	4	Williams	39543	1998 TJ ₃₂
1998 TY ₃₂	13.8	0.15	20000226	56.56383	56.48397	38.17718	9.39922	0.1210791	2.7661366	52	2	1998-2000	0.56	M-v	3	Williams	39264	1998 TY ₃₂
1998 TA ₃₃	14.5	0.15	20000226	88.23466	233.30392	162.98271	1.26324	0.1740851	3.0857305	47	2	1998-2000	0.52	M-v	4	Williams	39264	1998 TA ₃₃
1998 TD ₃₃	15.7	0.15	20000226	181.07737	153.83749	196.97488	2.66617	0.1948831	2.1638778	52	3	1997-2000	0.59	M-v	3	Williams	39543	1998 TD ₃₃
1998 TF ₃₃	14.4	0.15	20000226	16.37824	330.17090	190.58174	6.17251	0.0348636	2.2938961	69	2	1998-2000	0.47	M-v	3	Williams	39264	1998 TF ₃₃
1998 TN ₃₃	13.5	0.15	20000226	109.61732	293.82099	89.96873	3.16656	0.0718750	2.8896297	68	3	1995-2000	0.52	M-v	3	Williams	39543	1998 TN ₃₃
1998 TS ₃₃	13.6	0.15	20000226	62.07828	308.48469	121.56899	2.32400	0.1392130	3.1552527	86	2	1998-2000	0.58	M-v	3	Williams	39264	1998 TS ₃₃
1998 TD ₃₄	13.4	0.15	20000226	101.10215	190.47666	195.78190	10.05867	0.1049889	2.9989336	57	3	1996-2000	0.62	M-v	3	Williams	39543	1998 TD ₃₄
1998 TE ₃₄	15.1	0.15	20000226	237.42096	149.29182	131.54991	3.72684	0.1848684	2.2448107	59	2	1998-2000	0.57	M-v	4	Williams	39543	1998 TE ₃₄
1998 TG ₃₄	14.4	0.15	20000226	205.42932	122.62325	183.61982	6.61358	0.1928312	2.3026923	53	3	1997-2000	0.49	M-v	3	Williams	39543	1998 TG ₃₄
1998 TO ₃₄	14.7	0.15	20000226	67.66975	286.41119	173.14864	4.96471	0.1470106	2.5442133	71	2	1998-2000	0.64	M-v	4	Williams	39265	1998 TO ₃₄
1998 TR ₃₄	14.2	0.15	20000226	65.86453	26.60235	73.33412	5.49022	0.1691404	2.5977251	69	4	1990-2000	0.57	M-v	1	Williams	39543	1998 TR ₃₄
1998 TW ₃₄	13.0	0.15	20000226	180.67290	101.83011	193.90092	10.12333	0.0952488	2.9731365	47	3	1996-2000	0.65	M-v	3	Williams	38065	1998 TW ₃₄
1998 TA ₃₅	14.2	0.15	20000226	88.97887	7.73454	47.12836	4.12876	0.0813221	2.7352727	48	2	1998-2000	0.60	M-v	4	Williams	39265	1998 TA ₃₅
1998 UE	13.4	0.15	20000226	22.86576	182.96095	319.82293	25.22379	0.1560942	2.3271871	58	3	1982-2000	0.70	M-v	2	Marsden	38795	1998 UE
1998 UA ₁	15.0	0.15	20000226	117.05476	14.43157	49.75527	4.87109	0.1727524	2.3098331	79	4	1980-2000	0.58	M-v	2	Williams	39265	1998 UA ₁
1998 UC ₁	15.3	0.15	20000226	128.87338	275.19680	139.58915	5.92251	0.1476046	2.3153331	59	3	1991-2000	0.51	M-v	3	Williams	33571	1998 UC ₁
1998 UX ₁	13.0	0.15	20000226	142.93479	209.02731	142.95816	11.11732	0.1269623	3.0134783	89	3	1997-2000	0.53	M-v	3	Williams	39543	1998 UX ₁
1998 UC ₃	14.0	0.15	20000226	111.42520	55.08893	327.56949	1.27717	0.0680155	2.8610429	92	3	1993-2000	0.65	M-v	4	Williams	39543	1998 UC ₃
1998 UE ₄	14.2	0.15	20000226	166.95060	234.38633	127.14613	9.86457	0.2341723	2.3408477	47	4	1955-2000	0.61	M-v	2	Williams	39544	1998 UE ₄
1998 UG ₄	13.7	0.15	20000226	75.89827	323.24842	43.33830	12.33804	0.1545837	3.1953962	37	2	1998-2000	0.70	M-v	3	Williams	37794	1998 UG ₄
1998 UW ₅	15.4	0.15	20000226	21.64036	44.37321	100.51558	4.11726	0.1230461	2.5362429	41	3	1996-2000	0.51	M-v	4	Williams	39544	1998 UW ₅
1998 UP ₆	13.2	0.15	20000226	172.72361	299.87086	23.74642	17.56200	0.2552451	2.6028846	83	4	1981-2000	0.67	M-v	2	Williams	39544	1998 UP ₆
1998 US ₆	14.8	0.15	20000226	76.76956	26.20416	39.60549	5.17072	0.1107452	2.6599366	50	3	1996-2000	0.61	M-v	4	Williams	39544	1998 US ₆
1998 UT ₆	14.1	0.15	20000226	113.93258	351.96769	37.33336	1.71940	0.1108649	2.9444870	92	2	1998-2000	0.59	M-v	4	Williams	39544	1998 UT ₆
1998 UU ₆	13.5	0.15	20000226	178.87963	299.22768	64.70110	14.23382	0.2223115	2.5407966	73	3	1949-2000	0.53	M-v	3	Williams	39265	1998 UU ₆
1998 UC ₇	13.5	0.15	20000226	68.36265	213.91936	219.43617	11.34333	0.0218565	2.9335601	46	3	1997-2000	0.55	M-v	3	Williams	38522	1998 UC ₇

1998 UJ ₇	13.8	0.15	20000226	178.72334	227.82828	97.95265	1.79101	0.0641516	2.6924119	84	3	1996-2000	0.48	M-v	3	Williams	39266	1998 UJ ₇
1998 UQ ₇	14.3	0.15	20000226	57.30187	67.27877	42.76231	13.46662	0.1235296	2.5939310	54	2	1998-2000	0.59	M-v	3	Williams	39266	1998 UQ ₇
1998 UW ₇	14.1	0.15	20000226	66.92398	294.99200	170.27342	7.79719	0.1158633	2.5456134	68	3	1990-2000	0.60	M-v	3	Williams	39544	1998 UW ₇
1998 UX ₇	12.9	0.15	20000226	124.86047	150.60354	202.31069	11.43182	0.1211502	3.2107368	40	2	1998-2000	0.63	M-v	4	Williams	39544	1998 UX ₇
1998 UE ₈	13.2	0.15	20000226	48.13340	281.06493	170.39316	1.76497	0.1360933	3.2199627	90	3	1992-2000	0.52	M-v	3	Williams	39544	1998 UE ₈
1998 UF ₈	13.5	0.15	20000226	0.09267	141.45989	50.67353	7.29613	0.0879263	2.2595168	56	2	1998-2000	0.53	M-v	3	Williams	38523	1998 UF ₈
1998 UO ₈	13.7	0.15	20000226	144.22884	93.35362	250.37739	3.33271	0.0854634	2.7875604	73	3	1966-2000	0.61	M-v	4	Williams	39544	1998 UO ₈
1998 US ₁₃	15.0	0.15	20000226	88.64334	344.79682	60.92192	3.05401	0.1087371	2.9420023	35	3	1996-2000	0.57	M-v	4	Williams	39544	1998 US ₁₃
1998 UF ₁₄	13.3	0.15	20000226	133.17918	283.94846	69.43663	3.05744	0.0938977	2.9356536	73	3	1996-2000	0.57	M-v	3	Williams	39544	1998 UF ₁₄
1998 UA ₁₅	14.5	0.15	20000226	51.62578	70.32025	52.64607	6.14018	0.0665167	2.3853451	79	2	1998-2000	0.54	M-v	3	Williams	39267	1998 UA ₁₅
1998 UC ₁₅	15.1	0.15	20000226	64.88369	336.19796	139.44172	6.81171	0.1043480	2.4780026	48	2	1998-2000	0.55	M-v	4	Williams	39267	1998 UC ₁₅
1998 UF ₁₅	14.4	0.15	20000226	122.84093	117.44031	290.23321	5.53796	0.1260426	2.4381517	100	2	1998-2000	0.62	M-v	3	Williams	39267	1998 UF ₁₅
1998 UG ₁₅	14.5	0.15	20000226	281.95884	105.44082	114.06253	7.50960	0.0551113	2.3323554	59	2	1998-2000	0.49	M-v	3	Williams	39544	1998 UG ₁₅
1998 UH ₁₅	13.3	0.15	20000226	175.21453	127.04739	193.49005	13.15322	0.2141981	2.6368347	63	3	1972-2000	0.52	M-v	3	Williams	39544	1998 UH ₁₅
1998 UM ₁₅	14.9	0.15	20000226	236.52805	234.87378	63.88971	6.08887	0.1693238	2.1761996	44	2	1998-2000	0.53	M-v	4	Williams	39267	1998 UM ₁₅
1998 UQ ₁₅	13.2	0.15	20000226	97.08566	324.97893	86.98385	3.55296	0.0753210	2.7805321	69	3	1979-2000	0.52	M-v	3	Williams	39544	1998 UQ ₁₅
1998 UX ₁₅	15.0	0.15	20000226	82.02061	41.57825	48.40345	2.56953	0.1188856	2.5303304	60	3	1978-2000	0.69	M-v	3	Williams	39544	1998 UX ₁₅
1998 UB ₁₆	14.2	0.15	20000226	300.76404	154.22119	51.87108	12.70454	0.1355408	2.6611003	54	2	1998-2000	0.61	M-v	3	Williams	39544	1998 UB ₁₆
1998 UO ₁₆	14.2	0.15	20000226	105.50638	262.46327	139.51654	4.39275	0.1251253	2.7675590	52	2	1998-2000	0.58	M-v	4	Williams	39268	1998 UO ₁₆
1998 UB ₁₇	13.8	0.15	20000226	184.28896	241.73570	97.39777	24.38182	0.2630998	2.2746355	32	3	1994-2000	0.70	M-v	3	Williams	39544	1998 UB ₁₇
1998 UG ₁₇	14.3	0.15	20000226	119.82755	66.84336	310.10716	4.39432	0.0815787	2.7173479	69	3	1993-2000	0.70	M-v	4	Williams	39544	1998 UG ₁₇
1998 UO ₁₈	15.5	0.15	20000226	156.16892	13.14443	2.32250	2.24063	0.2200009	2.3698709	47	3	1994-2000	0.83	M-v	4	Williams	39544	1998 UO ₁₈
1998 UP ₁₈	14.2	0.15	20000226	133.44405	157.61014	261.43134	5.49957	0.0846778	2.3148625	61	4	1980-2000	0.77	M-v	2	Williams	39544	1998 UP ₁₈
1998 UX ₁₈	13.5	0.15	20000226	85.64826	27.87058	35.27217	2.92641	0.0364693	2.8606356	70	3	1990-2000	0.54	M-v	3	Williams	39544	1998 UX ₁₈
1998 UY ₁₈	15.5	0.15	20000226	72.05540	183.30744	263.48690	3.21490	0.0924735	2.5507323	28	4	1996-2000	0.82	M-v	1	Williams	39544	1998 UY ₁₈
1998 UF ₁₉	15.3	0.15	20000226	123.26189	238.13469	162.48392	2.84104	0.1758663	2.4706080	37	3	1990-2000	0.63	M-v	4	Williams	39544	1998 UF ₁₉
1998 UR ₁₉	14.8	0.15	20000226	144.53147	329.67283	40.99755	14.60376	0.2132472	2.3453873	59	3	1997-2000	0.66	M-v	3	Williams	39544	1998 UR ₁₉
1998 UX ₁₉	13.6	0.15	20000226	43.97292	0.85022	96.92153	0.17916	0.1261828	3.1462249	62	2	1998-2000	0.46	M-v	3	Williams	39544	1998 UX ₁₉
1998 UY ₁₉	11.8	0.15	20000226	257.89526	4.11836	233.35642	16.86091	0.1548388	3.1088594	78	2	1998-2000	0.62	M-v	3	Williams	39544	1998 UY ₁₉
1998 US ₂₀	14.5	0.15	20000226	106.07412	234.74624	188.70678	1.74663	0.0488234	2.4656384	62	2	1998-2000	0.49	M-v	4	Williams	39270	1998 US ₂₀
1998 UU ₂₀	14.8	0.15	20000226	204.42486	276.32650	48.22006	5.94669	0.1844479	2.2173429	63	2	1998-2000	0.54	M-v	4	Williams	39544	1998 UU ₂₀
1998 UM ₂₁	14.9	0.15	20000226	117.12833	168.16407	214.11052	13.58750	0.1899555	2.5699310	37	3	1990-2000	0.77	M-v	3	Williams	39270	1998 UM ₂₁
1998 UP ₂₁	13.7	0.15	20000226	46.62612	257.04461	178.77065	9.03893	0.0997893	3.0012093	48	3	1977-2000	0.64	M-v	2	Williams	39544	1998 UP ₂₁
1998 UU ₂₂	13.7	0.15	20000226	109.29630	152.85213	234.31315	9.64145	0.0930630	2.9758431	85	2	1998-2000	0.64	M-v	3	Williams	39544	1998 UU ₂₂
1998 UX ₂₂	15.2	0.15	20000226	109.03200	354.09424	61.90212	3.21817	0.1225364	2.5837545	68	3	1994-2000	0.72	M-v	4	Williams	39544	1998 UX ₂₂
1998 UY ₂₂	15.7	0.15	20000226	162.87092	333.04904	39.10272	3.68665	0.2073057	2.2623441	39	3	1991-2000	0.74	M-v	4	Williams	39544	1998 UY ₂₂
1998 UB ₂₃	14.6	0.15	20000226	152.02471	343.22666	42.05086	4.93359	0.1668443	2.3104640	105	4	1993-2000	0.62	M-v	3	Williams	39544	1998 UB ₂₃
1998 UC ₂₃	13.9	0.15	20000226	155.44567	88.34520	283.72272	5.52201	0.1389917	2.3690802	45	3	1994-2000	0.67	M-v	3	Williams	39544	1998 UC ₂₃
1998 UE ₂₃	14.5	0.15	20000226	179.99772	12.74617	349.52654	5.06359	0.1683653	2.1716547	63	3	1985-2000	0.54	M-v	3	Williams	39270	1998 UE ₂₃
1998 UL ₂₃	14.7	0.15	20000226	108.92121	13.60593	59.94246	3.77231	0.1478435	2.4440058	77	4	1994-2000	0.71	M-v	2	Williams	35723	1998 UL ₂₃
1998 UM ₂₃	13.9	0.15	20000226	115.99898	200.20069	227.56776	6.06708	0.0865503	2.3948071	72	4	1986-2000	0.73	M-v	3	Williams	39270	1998 UM ₂₃
1998 UO ₂₃	13.1	0.15	20000226	102.36255	132.00538	249.44498	22.84585	0.2558712	3.1318516	59	3	1986-2000	0.74	M-v	2	Williams	39270	1998 UO ₂₃
1998 UR ₂₃	14.8	0.15	20000226	262.43628	96.00178	155.60535	6.38837	0.1880530	2.1945670	45	2	1998-2000	0.69	M-v	4	Williams	39544	1998 UR ₂₃
1998 UT ₂₃	14.2	0.15	20000226	317.14945	78.56806	132.59904	6.10744	0.0991895	2.2356221	84	2	1998-2000	0.62	M-v	3	Williams	39544	1998 UT ₂₃
1998 UP ₂₄	15.3	0.15	20000226	150.70662	235.46586	141.50743	2.83115	0.1312923	2.4062923	46	2	1998-2000	0.71	M-v	4	Williams	39271	1998 UP ₂₄
1998 UQ ₂₅	13.3	0.15	20000226	176.61598	176.64067	124.41228	6.00800	0.1260438	2.9830692	37	2	1998-2000	0.65	M-v	4	Williams	38525	1998 UQ ₂₅
1998 UJ ₂₆	14.2	0.15	20000226	79.95792	272.54716	134.87787	5.85549	0.1821461	3.1612154	35	3	1992-2000	0.79	M-v	4	Williams	39545	1998 UJ ₂₆
1998 UM ₂₆	14.2	0.15	20000226	224.71923	169.64277	126.67271	4.92681	0.1695498	2.2545721	71	3	1991-2000	0.62	M-v	3	Williams	39545	1998 UM ₂₆
1998 UQ ₂₆	13.4	0.15	20000226	354.95374	58.04199	75.87270	8.46617	0.0535777	3.2446423	55	2	1998-2000	0.71	M-v	3	Williams	38525	1998 UQ ₂₆
1998 UV ₂₆	12.9	0.15	20000226	272.55315	144.64018	69.45065	10.32362	0.0334841	3.1620377	37	2	1998-2000	0.70	M-v	4	Williams	38525	1998 UV ₂₆
1998 UA ₂₇	13.5	0.15	20000226	292.44811	133.74147	110.84084	4.65952	0.1413294	2.2265852	93	3	1991-2000	0.62	M-v	2	Williams	39545	1998 UA ₂₇
1998 UZ ₂₇	13.5	0.15	20000226	260.28383	107.82562	140.36041	6.20757	0.0889539	2.6431499	95	2	1998-2000	0.62	M-v	3	Williams	39545	1998 UZ ₂₇
1998 UG ₂₉	14.2	0.15	20000226	280.49504	82.96510	161.17128	6.97081	0.0801911	2.4715018	45	2	1998-2000	0.66	M-v	4	Williams	39545	1998 UG ₂₉

1998 UH ₂₉	16.6	0.15	19981014	20.01529	231.74999	132.98886	5.64620	0.2232912	2.3958341	17	1	29 days	1.27		Williams		1998 UH ₂₉
1998 US ₂₉	14.4	0.15	20000226	74.38315	37.08037	70.63642	10.74249	0.2055749	2.5308645	32	4	1978–2000	0.73	M-v	3	Williams	39271 1998 US ₂₉
1998 UT ₂₉	14.4	0.15	20000226	164.96798	188.84637	152.71038	7.95589	0.1448052	2.5633789	45	2	1998–2000	0.70	M-v	4	Williams	39545 1998 UT ₂₉
1998 UV ₂₉	13.6	0.15	20000226	163.45101	238.00582	90.69195	10.10792	0.1494266	2.7631916	20	3	1989–2000	0.70	M-v	4	Williams	39271 1998 UV ₂₉
1998 UC ₃₀	14.5	0.15	20000226	61.82020	318.13570	158.58933	7.56021	0.2332641	2.6643132	25	3	1995–2000	0.62	M-v	2	Williams	35723 1998 UC ₃₀
1998 UC ₃₁	13.7	0.15	20000226	87.09855	61.26548	6.32917	9.13301	0.1977560	2.7674349	91	2	1998–2000	0.71	M-v	3	Williams	39271 1998 UC ₃₁
1998 UR ₃₁	13.9	0.15	20000226	320.01633	176.94723	62.92128	8.18161	0.1703681	2.2219304	78	3	1980–2000	0.61	M-v	2	Williams	38796 1998 UR ₃₁
1998 US ₃₁	13.7	0.15	20000226	186.23032	264.14110	68.34738	3.92599	0.0844617	2.6434501	73	2	1998–2000	0.49	M-v	4	Williams	39272 1998 US ₃₁
1998 UF ₃₃	13.1	0.15	20000226	178.87710	249.35792	46.43270	11.37663	0.1775513	2.5537144	43	2	1998–2000	0.56	M-v	3	Williams	38796 1998 UF ₃₃
1998 UE ₃₄	13.2	0.15	20000226	73.04579	157.73837	245.93074	9.41838	0.0407487	3.0615019	38	2	1998–2000	0.60	M-v	3	Williams	38796 1998 UE ₃₄
1998 UQ ₃₄	16.2	0.15	19981014	27.77151	277.53559	58.88841	6.92002	0.2121322	2.1960628	19	1	30 days	0.49			Williams	1998 UQ ₃₄
1998 UT ₃₅	13.5	0.15	20000226	220.33343	208.55314	46.60837	10.17124	0.0242328	2.9938879	42	3	1996–2000	0.75	M-v	3	Williams	38526 1998 UT ₃₅
1998 UH ₄₀	15.5	0.15	20000226	98.65261	67.30552	354.77562	4.52366	0.2783042	2.5941562	28	3	1977–2000	0.67	M-v	3	Williams	34930 1998 UH ₄₀
1998 UJ ₄₀	13.1	0.15	20000226	311.91161	323.52661	234.46813	11.16722	0.1131290	2.6076291	53	2	1998–2000	0.54	M-v	3	Williams	39545 1998 UJ ₄₀
1998 UO ₄₀	14.4	0.15	20000226	21.50570	165.13270	344.51614	6.10826	0.0560480	2.3643128	59	2	1998–2000	0.73	M-v	4	Williams	39272 1998 UO ₄₀
1998 UC ₄₁	14.1	0.15	20000226	277.30308	33.98121	202.33132	3.75214	0.0753282	2.4420439	66	3	1993–2000	0.78	M-v	4	Williams	39545 1998 UC ₄₁
1998 UF ₄₂	14.0	0.15	20000226	210.10366	225.77389	58.86105	2.28685	0.1291149	2.5623019	49	2	1998–2000	0.64	M-v	4	Williams	38796 1998 UF ₄₂
1998 UE ₄₃	13.8	0.15	20000226	110.19449	125.83367	261.22619	4.56090	0.0480391	2.7867964	61	2	1998–2000	0.65	M-v	4	Williams	39545 1998 UE ₄₃
1998 UJ ₄₃	13.8	0.15	20000226	329.01933	261.53361	291.41067	4.70894	0.0399660	2.4594624	65	3	1997–2000	0.54	M-v	3	Williams	39545 1998 UJ ₄₃
1998 US ₄₇	14.0	0.15	19981103	42.96714	302.52808	47.44887	22.53339	0.1448822	3.1424499	18	1	23 days	0.90			Williams	1998 US ₄₇
1998 VE	15.5	0.15	20000226	144.72770	99.29326	271.38067	1.12182	0.2257823	2.4627962	73	3	1990–2000	0.61	M-v	3	Williams	39545 1998 VE
1998 VK	14.3	0.15	20000226	110.70342	93.37968	312.65751	12.12155	0.1834812	2.5314906	46	4	1984–2000	0.82	M-v	2	Williams	39272 1998 VK
1998 VW	14.3	0.15	20000226	90.41471	16.76099	56.87563	13.68938	0.2811019	2.6479806	45	3	1996–2000	0.67	M-v	2	Williams	35723 1998 VW
1998 VZ ₁	15.3	0.15	20000226	156.65129	63.58861	288.98212	0.88534	0.0942945	2.6348853	43	2	1998–2000	0.59	M-v	5	Williams	39272 1998 VZ ₁
1998 VD ₂	14.3	0.15	20000226	64.34772	204.67842	238.09816	1.30621	0.1281798	3.0160511	47	2	1998–2000	0.65	M-v	3	Williams	39273 1998 VD ₂
1998 VV ₂	11.6	0.15	20000226	181.23943	46.19344	233.58128	8.78671	0.1144796	3.9709456	65	3	1989–2000	0.67	M-v	3	Williams	38796 1998 VV ₂
1998 VU ₃	14.7	0.15	20000226	344.16051	119.23738	56.16196	2.37358	0.1622068	2.9719798	58	2	1998–2000	0.50	M-v	4	Williams	39273 1998 VU ₃
1998 VA ₄	14.5	0.15	20000226	32.77375	101.68339	71.03735	12.89666	0.1553792	2.3877916	22	4	1992–2000	0.57	M-v	2	Williams	35723 1998 VA ₄
1998 VK ₄	14.2	0.15	20000226	173.41288	335.70094	346.88434	0.70194	0.0446073	2.9551010	37	3	1996–2000	0.53	M-v	4	Williams	39273 1998 VK ₄
1998 VT ₄	15.1	0.15	20000226	288.44409	324.01870	253.41278	1.04982	0.0582165	2.8989644	30	2	1998–2000	0.53	M-v	5	Williams	38527 1998 VT ₄
1998 VW ₄	13.9	0.15	20000226	90.71452	62.97144	353.07519	8.36444	0.2321717	3.2066518	66	3	1994–2000	0.54	M-v	3	Williams	39273 1998 VW ₄
1998 VA ₅	14.4	0.15	20000226	24.16050	295.87995	232.00291	1.98665	0.1399250	2.4406563	63	4	1996–2000	0.61	M-v	1	Williams	35723 1998 VA ₅
1998 VJ ₅	13.2	0.15	20000226	169.18422	287.25233	22.10222	11.49007	0.2407330	2.8619536	63	3	1993–2000	0.63	M-v	4	Williams	38796 1998 VJ ₅
1998 VM ₅	14.3	0.15	20000226	142.71594	342.76524	22.19253	7.71622	0.2048728	2.5766333	53	2	1998–2000	0.60	M-v	3	Williams	39273 1998 VM ₅
1998 VN ₅	13.0	0.15	20000226	85.46787	25.66078	22.22729	10.67386	0.1417278	3.1636730	76	3	1997–2000	0.50	M-v	3	Williams	39545 1998 VN ₅
1998 VS ₅	13.7	0.15	20000226	32.70791	94.60910	27.05358	22.40704	0.0186572	2.6494306	37	2	1998–2000	0.55	M-v	3	Williams	39545 1998 VS ₅
1998 VU ₅	14.3	0.15	20000226	38.12182	177.31433	318.44487	3.48475	0.0735268	2.5280942	73	2	1998–2000	0.50	M-v	3	Williams	39274 1998 VU ₅
1998 VX ₅	13.4	0.15	20000226	138.11525	318.38629	32.23485	2.81325	0.1674320	3.0103520	63	3	1996–2000	0.60	M-v	3	Williams	39545 1998 VX ₅
1998 VZ ₅	15.0	0.15	20000226	220.37919	257.36832	77.90232	7.27654	0.1353490	2.2890724	90	2	1998–2000	0.70	M-v	3	Williams	39545 1998 VZ ₅
1998 VD ₆	14.1	0.15	20000226	226.85291	243.44367	51.02967	10.44631	0.0970153	2.5372520	52	2	1998–2000	0.55	M-v	4	Williams	39545 1998 VD ₆
1998 VM ₆	11.8	0.15	20000226	22.03092	127.32641	309.34884	6.28386	0.2201530	5.2309011	64	2	1998–2000	0.54	M-v	3	Williams	38796 1998 VM ₆
1998 VS ₆	13.4	0.15	20000226	181.28084	104.17885	237.35701	8.26038	0.1023861	2.6556059	38	3	1997–2000	0.51	M-v	3	Williams	39274 1998 VS ₆
1998 VT ₆	14.3	0.15	20000226	171.19204	274.23853	109.61376	3.19535	0.1444078	2.2127800	41	4	1991–2000	0.77	M-v	3	Williams	34028 1998 VT ₆
1998 VV ₆	15.0	0.15	20000226	171.25887	210.72806	159.75339	1.03016	0.1825001	2.3052623	39	5	1977–2000	0.62	M-v	3	Williams	35724 1998 VV ₆
1998 VM ₇	14.7	0.15	20000226	76.53602	36.10382	67.28327	6.45158	0.1069334	2.2496266	34	3	1978–2000	0.54	M-v	2	Williams	34537 1998 VM ₇
1998 VQ ₇	13.6	0.15	20000226	223.04975	212.55106	70.10288	7.36430	0.1030751	2.3751192	67	3	1990–2000	0.57	M-v	2	Williams	39545 1998 VQ ₇
1998 VJ ₈	14.6	0.15	20000226	86.73335	265.16170	152.87595	2.21137	0.2066973	2.7546710	63	4	1979–2000	0.60	M-v	2	Williams	39545 1998 VJ ₈
1998 VW ₈	14.5	0.15	20000226	224.99599	325.62858	322.05880	4.06912	0.1668671	2.3115295	71	2	1998–2000	0.58	M-v	4	Williams	39545 1998 VW ₈
1998 VX ₈	14.0	0.15	20000226	236.57220	18.14938	261.55798	6.11403	0.1113679	2.3482809	57	3	1987–2000	0.57	M-v	3	Williams	39545 1998 VX ₈
1998 VU ₉	14.2	0.15	20000226	89.80680	127.84605	297.88632	2.58551	0.0849656	2.5181267	67	3	1992–2000	0.67	M-v	4	Williams	39545 1998 VU ₉
1998 VC ₁₁	14.4	0.15	20000226	257.10353	65.05561	209.63582	4.61956	0.1082725	2.1995159	56	3	1997–2000	0.61	M-v	3	Williams	39274 1998 VC ₁₁
1998 VN ₁₁	14.4	0.15	20000226	247.66993	176.84160	108.09561	1.98323	0.1445773	2.1400710	87	3	1979–2000	0.54	M-v	2	Williams	39545 1998 VN ₁₁
1998 VW ₁₁	13.7	0.15	20000226	41.62035	270.53181	197.28494	12.99061	0.1053776	2.7817633	73	2	1998–2000	0.59	M-v	3	Williams	39274 1998 VW ₁₁

1998 VW ₁₂	14.2	0.15	20000226	87.43520	259.55777	136.04504	1.97293	0.1980999	3.1145897	52	3	1976–2000	0.58	M-v	4	Williams	39545	1998 VW ₁₂
1998 VB ₁₃	15.8	0.15	20000226	137.85936	241.79046	155.21771	1.16379	0.1571700	2.2877704	62	3	1993–2000	0.57	M-v	3	Williams	39545	1998 VB ₁₃
1998 VZ ₁₃	14.1	0.15	20000226	120.93319	166.48969	256.73664	5.32009	0.1010906	2.2511107	54	5	1954–2000	0.67	M-v	2	Williams	39545	1998 VZ ₁₃
1998 VD ₁₄	13.5	0.15	20000226	302.03000	268.31642	314.42667	5.15203	0.1078094	2.4299605	83	3	1983–2000	0.60	M-v	3	Williams	39274	1998 VD ₁₄
1998 VV ₁₄	14.6	0.15	20000226	234.02417	304.33953	349.33380	1.85452	0.1065283	2.2532817	56	2	1998–2000	0.50	M-v	4	Williams	39545	1998 VV ₁₄
1998 VA ₁₅	14.3	0.15	20000226	65.95301	215.04956	245.27599	1.78945	0.1615547	2.6194227	67	4	1991–2000	0.69	M-v	1	Williams	39545	1998 VA ₁₅
1998 VP ₁₅	14.5	0.15	20000226	300.69107	18.06155	211.65268	4.38978	0.1620793	2.3054055	69	3	1980–2000	0.71	M-v	3	Williams	39545	1998 VP ₁₅
1998 VM ₁₆	12.6	0.15	20000226	1.81503	67.77101	64.78704	13.45258	0.1483724	3.2209322	67	3	1975–2000	0.56	M-v	2	Williams	39545	1998 VM ₁₆
1998 VP ₁₆	14.1	0.15	20000226	319.75968	98.34509	85.92157	9.41831	0.0702417	2.7541498	33	3	1980–2000	0.62	M-v	3	Williams	39545	1998 VP ₁₆
1998 VH ₁₈	15.1	0.15	20000226	180.63249	91.05384	270.27068	5.17301	0.1651548	2.1415329	41	5	1951–2000	0.93	M-v	2	Williams	38529	1998 VH ₁₈
1998 VM ₁₈	13.6	0.15	20000226	272.46749	4.45201	242.70247	13.29225	0.0852334	2.4751699	53	2	1998–2000	0.65	M-v	4	Williams	39546	1998 VM ₁₈
1998 VB ₂₀	14.6	0.15	20000226	211.08868	244.29214	61.15258	7.75414	0.1445510	2.3419550	48	3	1997–2000	0.77	M-v	3	Williams	39546	1998 VB ₂₀
1998 VH ₂₁	13.9	0.15	20000226	209.71239	271.67121	22.76803	5.45068	0.0283458	2.7484561	48	3	1996–2000	0.68	M-v	3	Williams	39546	1998 VH ₂₁
1998 VM ₂₂	14.7	0.15	19981123	22.60928	124.00705	242.73704	6.38299	0.3264150	2.7717323	22	1	28 days	0.36			Williams		1998 VM ₂₂
1998 VO ₂₂	15.9	0.15	20000226	164.58972	2.38467	16.95076	3.07090	0.1522533	2.1832509	40	3	1997–2000	0.67	M-v	4	Williams	34931	1998 VO ₂₂
1998 VC ₂₅	14.8	0.15	20000226	283.80403	188.10821	60.23907	5.95173	0.1463038	2.2992507	37	3	1991–2000	0.43	M-v	4	Williams	34028	1998 VC ₂₅
1998 VQ ₂₅	14.1	0.15	20000226	307.36600	173.32296	58.75933	4.38352	0.0819150	2.2995313	92	2	1998–2000	0.55	M-v	3	Williams	39546	1998 VQ ₂₅
1998 VO ₂₆	16.1	0.15	20000226	119.06290	66.62301	352.74707	2.35655	0.1819457	2.3770947	32	5	1992–2000	0.68	M-v	1	Williams	35724	1998 VO ₂₆
1998 VR ₂₇	12.4	0.15	20000226	350.59592	270.79178	239.65245	5.30936	0.0885783	3.1473485	99	3	1983–2000	0.59	M-v	2	Williams	39546	1998 VR ₂₇
1998 VT ₂₇	13.2	0.15	20000226	139.34835	298.91424	50.83845	10.61650	0.1078637	2.9731099	62	2	1998–2000	0.56	M-v	4	Williams	38530	1998 VT ₂₇
1998 VN ₂₈	14.5	0.15	20000226	80.86997	39.72203	69.69553	5.44985	0.1256897	2.3606088	55	4	1980–2000	0.60	M-v	2	Williams	39546	1998 VN ₂₈
1998 VS ₂₈	14.7	0.15	20000226	143.53856	69.29707	345.23325	1.82581	0.0872705	2.1630576	41	4	1982–2000	0.65	M-v	2	Williams	35724	1998 VS ₂₈
1998 VV ₂₈	14.3	0.15	20000226	127.91941	125.40044	286.92372	5.50738	0.1187528	2.3724130	29	5	1954–2000	0.60	M-v	2	Williams	39546	1998 VV ₂₈
1998 VN ₂₉	14.7	0.15	20000226	118.16150	167.79775	242.94614	10.75944	0.0550854	2.5264880	33	4	1978–2000	0.51	M-v	3	Williams	35724	1998 VN ₂₉
1998 VO ₂₉	14.4	0.15	20000226	98.25517	84.27857	313.94734	2.05895	0.2770258	2.9899911	52	3	1984–2000	0.63	M-v	4	Williams	39546	1998 VO ₂₉
1998 VY ₂₉	10.5	0.15	20000226	37.14281	163.41264	258.43761	12.03308	0.2040339	5.1714779	89	3	1986–2000	0.71	M-v	2	Williams	38797	1998 VY ₂₉
1998 VZ ₂₉	14.8	0.15	20000226	146.50245	5.01628	32.75720	4.26049	0.1933078	2.2731328	70	4	1991–2000	0.75	M-v	2	Williams	35724	1998 VZ ₂₉
1998 VF ₃₀	10.5	0.15	20000226	24.66297	3.51109	67.00336	25.63332	0.1305077	5.2212363	55	2	1998–2000	0.63	M-v	3	Williams	38797	1998 VF ₃₀
1998 VM ₃₀	15.1	0.15	20000226	137.46027	23.16856	25.62498	2.80231	0.1071894	2.3057084	62	3	1992–2000	0.69	M-v	4	Williams	35724	1998 VM ₃₀
1998 VU ₃₀	9.5	0.15	20000226	27.29586	179.22618	253.42458	16.26934	0.0458109	5.2037879	75	4	1962–2000	0.70	M-v	1	Williams	38797	1998 VU ₃₀
1998 VW ₃₀	15.3	0.15	20000226	174.99868	8.01796	0.43191	1.70768	0.1260697	2.2539085	58	2	1998–2000	0.71	M-v	4	Williams	39275	1998 VW ₃₀
1998 VZ ₃₀	12.7	0.15	20000226	17.31636	101.66034	70.19266	14.13053	0.1007485	2.5678866	61	3	1992–2000	0.52	M-v	2	Williams	38797	1998 VZ ₃₀
1998 VG ₃₁	14.4	0.15	20000226	181.09145	321.42369	9.15824	6.08051	0.0804476	2.6160518	58	2	1998–2000	0.47	M-v	4	Williams	39546	1998 VG ₃₁
1998 VH ₃₁	14.4	0.15	20000226	155.64441	324.35002	62.18213	1.91267	0.2093926	2.3409932	54	4	1969–2000	0.55	M-v	2	Williams	39546	1998 VH ₃₁
1998 VL ₃₁	13.9	0.15	20000226	43.58248	81.14809	74.11661	14.49317	0.1352263	2.5645403	56	2	1998–2000	0.62	M-v	3	Williams	39275	1998 VL ₃₁
1998 VN ₃₂	13.4	0.15	20000226	101.72945	320.59765	92.76116	3.25296	0.0720939	2.9107530	78	2	1998–2000	0.60	M-v	4	Williams	39546	1998 VN ₃₂
1998 VV ₃₂	12.3	0.15	20000226	351.47058	124.38065	95.42493	19.79302	0.0446697	3.1550821	54	3	1997–2000	0.67	M-v	2	Williams	39546	1998 VV ₃₂
1998 VY ₃₂	14.8	0.15	20000226	56.00205	79.68304	55.73580	3.10069	0.1455003	2.4653179	50	3	1996–2000	0.76	M-v	3	Williams	35724	1998 VY ₃₂
1998 VE ₃₃	13.7	0.15	20000226	256.13864	59.98232	220.44340	12.99005	0.1465465	2.5656717	58	4	1981–2000	0.61	M-v	2	Williams	39546	1998 VE ₃₃
1998 VH ₃₃	15.4	0.15	20000226	210.67191	240.81778	75.05563	3.54404	0.1902666	2.2610227	42	2	1998–2000	0.62	M-v	4	Williams	39275	1998 VH ₃₃
1998 VD ₃₄	14.6	0.15	19981123	324.05638	216.83932	241.05226	8.16151	0.0766048	2.7273480	23	1	27 days	1.20			Williams		1998 VD ₃₄
1998 VV ₃₄	13.5	0.15	20000226	183.29612	358.51972	352.36056	7.03133	0.1435869	2.2200061	113	3	1990–2000	0.56	M-v	3	Williams	39546	1998 VV ₃₄
1998 VS ₃₅	15.0	0.15	20000226	355.22476	267.31112	300.80495	1.66313	0.1373519	2.4093420	33	5	1990–2000	0.83	M-v	2	Williams	39546	1998 VS ₃₅
1998 VZ ₃₆	12.5	0.15	20000226	226.27527	41.97448	223.46350	12.81386	0.1310513	2.6944025	62	3	1980–2000	0.57	M-v	2	Williams	39546	1998 VZ ₃₆
1998 VL ₃₇	13.7	0.15	20000226	208.09646	260.70462	27.96429	13.49549	0.1506677	2.6220161	41	3	1971–2000	0.61	M-v	3	Williams	39546	1998 VL ₃₇
1998 VZ ₃₇	13.9	0.15	20000226	6.85297	107.04769	54.83388	13.56755	0.1272909	2.6101118	52	3	1996–2000	0.59	M-v	3	Williams	39546	1998 VZ ₃₇
1998 VQ ₃₈	13.3	0.15	20000226	18.48280	269.00845	241.61300	8.45790	0.0749214	2.5868732	69	3	1997–2000	0.69	M-v	3	Williams	39546	1998 VQ ₃₈
1998 VC ₄₄	14.3	0.15	20000226	139.61611	217.96872	176.06785	4.28993	0.1399229	2.4873056	68	3	1986–2000	0.55	M-v	3	Williams	39546	1998 VC ₄₄
1998 VX ₄₄	12.4	0.15	20000226	84.42021	239.73773	128.09369	23.99520	0.1126173	3.1307649	31	3	1995–2000	0.45	M-v	2	Williams	39277	1998 VX ₄₄
1998 WB	13.2	0.15	20000226	95.83009	261.74868	127.00701	22.57189	0.1318512	3.1312004	52	2	1998–2000	0.53	M-v	3	Williams	39546	1998 WB
1998 WE	13.2	0.15	20000226	38.72754	352.17813	118.82171	2.51836	0.1391958	3.2175026	82	2	1998–2000	0.55	M-v	3	Williams	39546	1998 WE
1998 WH	14.0	0.15	20000226	352.57557	130.40327	77.97414	5.79831	0.1513900	2.4124936	53	4	1978–2000	0.56	M-v	2	Williams	39546	1998 WH
1998 WJ	16.2	0.15	20000226	155.79583	179.69963	223.95177	3.89088	0.0819273	2.2473549	21	4	1993–2000	0.50	M-v	2	Marsden	35725	1998 WJ

1998 WK	15.0	0.15	20000226	141.82278	140.33076	244.66892	2.22204	0.1305272	2.6101371	35	2	1998-2000	0.38	M-v	4	Williams	39277	1998 WK
1998 WP	13.4	0.15	20000226	155.16539	110.67339	246.57664	10.77015	0.2726983	2.6582620	56	3	1989-2000	0.73	M-v	3	Williams	39546	1998 WP
1998 WQ	13.4	0.15	20000226	211.66490	128.27460	195.18450	5.94735	0.2170175	2.2812145	77	3	1939-2000	0.54	M-v	3	Williams	39546	1998 WQ
1998 WD ₁	13.0	0.15	20000226	101.66584	262.64222	129.95044	20.65923	0.1598054	3.2148103	45	2	1998-2000	0.58	M-v	3	Williams	39277	1998 WD ₁
1998 WK ₁	14.4	0.15	20000226	175.22563	350.14137	336.19098	15.14065	0.1441178	2.5189052	72	3	1974-2000	0.70	M-v	3	Williams	39546	1998 WK ₁
1998 WL ₁	14.2	0.15	20000226	126.23904	331.60085	96.18554	7.04724	0.0899059	2.4218457	36	3	1992-2000	0.53	M-v	3	Williams	34310	1998 WL ₁
1998 WM ₁	13.0	0.15	20000226	215.16164	58.50420	255.88999	4.70553	0.1930908	2.5356737	65	3	1985-2000	0.62	M-v	3	Williams	39546	1998 WM ₁
1998 WU ₁	14.2	0.15	20000226	233.67154	236.48057	82.87620	11.67373	0.0779055	2.3735802	69	2	1998-2000	0.56	M-v	4	Williams	39546	1998 WU ₁
1998 WG ₂	13.9	0.15	20000226	38.53661	334.31056	149.81776	2.09602	0.1505826	3.2227790	68	2	1998-2000	0.68	M-v	3	Williams	39277	1998 WG ₂
1998 WJ ₂	13.8	0.15	20000226	34.74447	200.45942	277.10670	10.32011	0.0753497	3.1203190	55	2	1998-2000	0.59	M-v	3	Williams	39278	1998 WJ ₂
1998 WE ₃	14.4	0.15	20000226	96.42843	77.66321	339.41453	4.49709	0.0290425	2.7407402	62	3	1993-2000	0.60	M-v	4	Williams	39547	1998 WE ₃
1998 WG ₃	13.5	0.15	20000226	184.57117	96.72171	266.23374	3.14525	0.0054545	2.7557545	60	3	1993-2000	0.62	M-v	4	Williams	39547	1998 WG ₃
1998 WJ ₃	13.0	0.15	20000226	40.07802	70.15552	92.86499	14.00091	0.1127502	2.6930661	61	3	1977-2000	0.63	M-v	1	Williams	39547	1998 WJ ₃
1998 WO ₃	12.2	0.15	20000226	143.69302	118.01145	271.74013	8.63234	0.0254083	3.0467561	43	2	1998-2000	0.74	M-v	4	Williams	39278	1998 WO ₃
1998 WQ ₃	13.0	0.15	20000226	290.51431	3.19129	267.39367	12.42027	0.1243525	2.5642785	36	4	1992-2000	0.66	M-v	3	Williams	35725	1998 WQ ₃
1998 WU ₃	13.9	0.15	20000226	161.84032	308.14867	53.28612	7.06205	0.1823447	2.4468750	61	3	1990-2000	0.70	M-v	3	Williams	39547	1998 WU ₃
1998 WD ₄	15.0	0.15	20000226	171.98729	193.77254	167.16479	2.69202	0.2154133	2.3705837	40	3	1997-2000	0.63	M-v	4	Williams	39278	1998 WD ₄
1998 WH ₄	13.1	0.15	20000226	93.76177	0.04572	72.63739	4.30873	0.0619909	2.6847652	97	3	1996-2000	0.59	M-v	3	Williams	39547	1998 WH ₄
1998 WK ₄	15.4	0.15	20000226	133.74384	307.21806	73.57806	2.88697	0.2400840	2.7100673	27	2	1998-2000	0.44	M-v	4	Williams	39278	1998 WK ₄
1998 WX ₄	9.1	0.15	20000226	60.90529	285.14548	120.55680	28.74923	0.0235554	5.2906580	70	3	1992-2000	0.56	M-v	2	Williams	39547	1998 WX ₄
1998 WE ₅	13.8	0.15	20000226	103.10657	242.71427	152.53317	14.23305	0.1462260	3.1597646	43	3	1987-2000	0.69	M-v	4	Williams	39547	1998 WE ₅
1998 WH ₅	13.3	0.15	20000226	36.42298	320.12794	175.32040	24.26770	0.1392896	3.1697655	44	2	1998-2000	0.55	M-v	3	Williams	39547	1998 WH ₅
1998 WJ ₅	10.3	0.15	20000226	60.84034	257.47282	144.04229	25.07539	0.1361801	5.1873124	31	2	1998-2000	0.43	M-v	3	Williams	37803	1998 WJ ₅
1998 WL ₅	13.9	0.15	20000226	42.80144	72.98491	38.49252	2.29990	0.0596983	2.9254695	85	2	1998-2000	0.53	M-v	3	Williams	39547	1998 WL ₅
1998 WM ₅	14.7	0.15	20000226	319.81551	182.29402	49.43964	4.74209	0.0878311	2.2782372	50	2	1998-2000	0.56	M-v	4	Williams	39279	1998 WM ₅
1998 WN ₅	14.2	0.15	20000226	153.93115	344.78882	356.27871	0.90561	0.1092077	2.9712296	67	3	1992-2000	0.64	M-v	4	Williams	39547	1998 WN ₅
1998 WO ₅	14.1	0.15	20000226	73.50010	125.19130	329.72446	5.82480	0.0900889	2.4636216	66	4	1990-2000	0.54	M-v	1	Williams	39547	1998 WO ₅
1998 WW ₅	14.4	0.15	20000226	222.09286	305.01845	358.35652	5.57338	0.1406930	2.3396660	69	3	1987-2000	0.54	M-v	3	Williams	39547	1998 WW ₅
1998 WB ₆	13.8	0.15	20000226	61.53884	251.49149	243.85786	5.93902	0.0883366	2.2707012	44	3	1991-2000	0.79	M-v	2	Williams	38533	1998 WB ₆
1998 WK ₆	14.1	0.15	20000226	104.36149	225.37907	191.39242	2.11246	0.1990461	2.6939432	89	4	1980-2000	0.65	M-v	2	Williams	39547	1998 WK ₆
1998 WM ₆	15.7	0.15	20000226	270.07488	200.03583	92.98588	2.56922	0.0682432	2.1648942	42	3	1991-2000	0.42	M-v	4	Williams	33523	1998 WM ₆
1998 WN ₆	12.8	0.15	20000226	314.53087	66.98958	179.51122	10.07810	0.0646979	3.0197164	51	5	1985-2000	0.61	M-v	1	Williams	39547	1998 WN ₆
1998 WO ₆	14.2	0.15	20000226	112.02030	351.29597	73.09045	19.38918	0.2103612	2.6665357	36	3	1996-2000	0.57	M-v	3	Williams	33578	1998 WO ₆
1998 WQ ₆	14.8	0.15	20000226	134.72762	70.32608	347.98330	1.94098	0.1934551	2.3878127	46	5	1979-2000	0.68	M-v	2	Williams	35725	1998 WQ ₆
1998 WY ₆	14.5	0.15	20000226	345.92512	219.82777	342.58627	5.99608	0.0362256	2.4043309	63	2	1998-2000	0.54	M-v	3	Williams	39547	1998 WY ₆
1998 WB ₇	13.6	0.15	20000226	169.83016	356.97348	326.61263	0.93261	0.1116662	2.9474511	68	3	1993-2000	0.62	M-v	3	Williams	38797	1998 WB ₇
1998 WE ₇	13.7	0.15	20000226	304.70325	167.18901	66.91774	15.42506	0.1338351	2.5351510	69	2	1998-2000	0.59	M-v	4	Williams	39547	1998 WE ₇
1998 WN ₇	14.4	0.15	20000226	67.33122	30.02597	72.55669	10.55103	0.1563927	2.7336114	84	2	1998-2000	0.64	M-v	3	Williams	39279	1998 WN ₇
1998 WS ₇	14.1	0.15	20000226	109.66261	26.80655	19.19390	13.01274	0.1570902	2.6027993	58	3	1960-2000	0.55	M-v	3	Williams	39547	1998 WS ₇
1998 WC ₈	13.3	0.15	20000226	109.98974	290.19033	108.26190	8.82092	0.2628085	2.7316192	57	4	1989-2000	0.70	M-v	2	Williams	39547	1998 WC ₈
1998 WD ₈	13.4	0.15	20000226	87.78712	33.63378	70.09471	6.21389	0.0243140	2.7426868	65	3	1993-2000	0.63	M-v	3	Williams	39547	1998 WD ₈
1998 WH ₈	14.2	0.15	20000226	195.95463	290.26690	64.29112	4.51491	0.1171121	2.5247945	36	2	1998-2000	0.65	M-v	4	Williams	33765	1998 WH ₈
1998 WJ ₈	12.3	0.15	20000226	146.36217	257.35797	80.02470	17.20756	0.0977724	3.1255249	110	3	1996-2000	0.55	M-v	2	Williams	39547	1998 WJ ₈
1998 WY ₈	11.4	0.15	20000226	55.27426	145.71248	275.25756	4.14643	0.0900138	5.1421765	42	2	1998-2000	0.60	M-v	3	Williams	38534	1998 WY ₈
1998 WA ₉	15.2	0.15	20000226	301.08806	244.78055	349.92464	7.32829	0.1637617	2.2660536	78	3	1994-2000	0.62	M-v	3	Williams	39279	1998 WA ₉
1998 WD ₉	15.1	0.15	20000226	128.36784	202.16785	207.63134	8.27553	0.1431819	2.3316090	44	3	1989-2000	0.57	M-v	3	Williams	35726	1998 WD ₉
1998 WJ ₉	14.0	0.15	20000226	67.80625	18.87149	95.71855	14.36920	0.1979501	2.6415109	39	4	1991-2000	0.68	M-v	2	Williams	35726	1998 WJ ₉
1998 WK ₉	14.3	0.15	20000226	109.65707	301.05153	103.32210	4.84725	0.0969258	2.7986540	89	3	1996-2000	0.60	M-v	3	Williams	39547	1998 WK ₉
1998 WL ₉	14.4	0.15	20000226	35.82707	183.81379	311.17943	4.37415	0.1584393	3.1757044	74	3	1988-2000	0.72	M-v	2	Williams	39547	1998 WL ₉
1998 WO ₉	14.6	0.15	20000226	200.80996	270.84088	67.44759	5.12868	0.0697827	2.2995226	67	3	1997-2000	0.56	M-v	3	Williams	39547	1998 WO ₉
1998 WR ₉	14.2	0.15	20000226	177.93613	109.13160	217.53502	1.36050	0.1065721	2.7431329	66	3	1993-2000	0.75	M-v	4	Williams	39547	1998 WR ₉
1998 WS ₉	13.4	0.15	20000226	242.73691	221.60588	69.41677	6.79500	0.1000067	2.3576473	109	2	1998-2000	0.59	M-v	3	Williams	39547	1998 WS ₉
1998 WL ₁₀	13.7	0.15	20000226	66.77356	248.71124	188.10514	4.38088	0.1346835	3.1038991	46	2	1998-2000	0.55	M-v	4	Williams	39547	1998 WL ₁₀

1998 WM ₁₀	13.7	0.15	20000226	48.39032	332.61192	126.70675	3.64622	0.0607865	2.9970557	56	2	1998-2000	0.47	M-v	3	Williams	39547	1998 WM ₁₀
1998 WV ₁₀	14.5	0.15	20000226	244.31194	68.56772	225.54690	1.57525	0.0283650	2.3776640	79	2	1998-2000	0.61	M-v	4	Williams	39280	1998 WV ₁₀
1998 WW ₁₀	14.4	0.15	20000226	153.67179	284.29220	77.75735	4.38245	0.1243468	2.5674638	99	3	1973-2000	0.64	M-v	3	Williams	39547	1998 WW ₁₀
1998 WX ₁₀	15.3	0.15	20000226	138.94754	254.19595	138.94796	1.71143	0.1798930	2.4007625	41	3	1979-2000	0.64	M-v	3	Williams	35726	1998 WX ₁₀
1998 WA ₁₁	14.4	0.15	20000226	128.53619	301.15576	87.37661	4.64323	0.0905713	2.6545505	33	2	1998-2000	0.56	M-v	5	Williams	39280	1998 WA ₁₁
1998 WF ₁₁	13.8	0.15	20000226	113.15111	267.39539	124.89831	3.18158	0.0727981	2.8960235	68	3	1996-2000	0.64	M-v	4	Williams	39547	1998 WF ₁₁
1998 WN ₁₁	11.5	0.15	20000226	29.44506	318.75616	110.37865	4.50972	0.1692069	5.1857902	67	3	1996-2000	0.70	M-v	3	Williams	38798	1998 WN ₁₁
1998 WD ₁₂	14.4	0.15	20000226	324.18067	56.23890	166.79574	2.34545	0.1645397	2.3821506	94	3	1997-2000	0.60	M-v	3	Williams	39547	1998 WD ₁₂
1998 WE ₁₂	13.1	0.15	20000226	319.40149	98.52064	95.41258	3.28099	0.0361490	2.8991561	103	3	1996-2000	0.56	M-v	3	Williams	39547	1998 WE ₁₂
1998 WP ₁₂	14.4	0.15	20000226	132.36203	99.14439	292.15619	2.22916	0.0640037	2.5765394	45	2	1998-2000	0.76	M-v	4	Williams	39280	1998 WP ₁₂
1998 WX ₁₂	13.6	0.15	20000226	130.54365	60.63143	318.52687	3.75851	0.1060446	2.7649762	69	2	1998-2000	0.58	M-v	4	Williams	39280	1998 WX ₁₂
1998 WQ ₁₃	15.4	0.15	20000226	147.50845	12.07741	16.13556	3.37196	0.2195090	2.3463640	50	4	1987-2000	0.75	M-v	2	Williams	35726	1998 WQ ₁₃
1998 WY ₁₃	14.3	0.15	20000226	194.95627	305.83494	25.43431	2.32361	0.2032739	2.3100511	63	2	1998-2000	0.59	M-v	4	Williams	39547	1998 WY ₁₃
1998 WH ₁₄	14.1	0.15	20000226	123.28964	155.43444	230.31719	5.31628	0.1161757	2.8002035	55	3	1996-2000	0.69	M-v	4	Williams	39547	1998 WH ₁₄
1998 WJ ₁₄	14.6	0.15	20000226	70.57681	246.40851	189.61929	0.63169	0.1410447	3.0966932	59	2	1998-2000	0.65	M-v	3	Williams	39281	1998 WJ ₁₄
1998 WQ ₁₄	13.5	0.15	20000226	331.91927	307.87917	229.89699	8.13334	0.0629675	3.0825937	53	2	1998-2000	0.73	M-v	4	Williams	39547	1998 WQ ₁₄
1998 WP ₁₅	12.7	0.15	20000226	60.93981	3.84569	74.18693	17.18809	0.0557714	3.1978952	78	2	1998-2000	0.61	M-v	3	Williams	39547	1998 WP ₁₅
1998 WR ₁₅	13.1	0.15	20000226	147.74782	195.66745	131.34124	5.54774	0.2034569	3.1805054	40	4	1986-2000	0.64	M-v	3	Williams	38798	1998 WR ₁₅
1998 WM ₁₆	15.6	0.15	20000226	134.83732	219.60758	199.02653	2.11522	0.1011214	2.2634898	39	4	1993-2000	0.60	M-v	2	Williams	35726	1998 WM ₁₆
1998 WN ₁₆	14.0	0.15	20000226	114.41634	243.89343	190.52222	1.82704	0.1827620	2.3766026	67	4	1987-2000	0.59	M-v	2	Williams	38535	1998 WN ₁₆
1998 WO ₁₆	14.0	0.15	20000226	14.10660	67.69721	64.64047	6.35880	0.0766830	3.2271372	46	2	1998-2000	0.64	M-v	4	Williams	39281	1998 WO ₁₆
1998 WZ ₁₆	14.3	0.15	20000226	138.78872	297.08129	79.75680	3.05577	0.0842575	2.7191472	53	3	1982-2000	0.56	M-v	4	Williams	39547	1998 WZ ₁₆
1998 WA ₁₇	13.6	0.15	20000226	18.86505	292.35383	200.87179	1.62971	0.0914897	3.1495112	86	3	1992-2000	0.54	M-v	2	Williams	39547	1998 WA ₁₇
1998 WG ₁₇	14.5	0.15	20000226	225.27001	118.32902	173.26672	0.39336	0.1506508	2.5742211	51	3	1992-2000	0.58	M-v	2	Williams	39547	1998 WG ₁₇
1998 WK ₁₇	12.5	0.15	20000226	326.89344	299.23659	244.81961	21.44282	0.1024116	3.1743462	55	4	1952-2000	0.77	M-v	2	Williams	39548	1998 WK ₁₇
1998 WZ ₁₇	13.3	0.15	20000226	26.81214	206.42912	285.66043	4.96774	0.1162104	3.0628488	64	2	1998-2000	0.77	M-v	3	Williams	39548	1998 WZ ₁₇
1998 WJ ₁₈	14.0	0.15	20000226	272.05843	344.71296	293.21441	4.50091	0.0996074	2.2483513	56	3	1994-2000	0.56	M-v	3	Williams	39548	1998 WJ ₁₈
1998 WK ₁₈	14.7	0.15	20000226	192.28915	21.49769	328.63150	3.23877	0.1838066	2.1981227	40	2	1998-2000	0.72	M-v	4	Williams	39282	1998 WK ₁₈
1998 WR ₁₈	13.6	0.15	20000226	244.91714	18.72446	255.43280	6.71069	0.0962127	2.6963263	49	2	1998-2000	0.66	M-v	3	Williams	38798	1998 WR ₁₈
1998 WV ₁₈	11.7	0.15	20000226	298.75808	309.88131	243.79428	11.25278	0.1403491	3.9380825	74	2	1998-2000	0.67	M-v	3	Williams	38798	1998 WV ₁₈
1998 WY ₁₈	14.6	0.15	20000226	87.72121	175.99642	259.53718	2.03896	0.0551994	2.6916671	60	2	1998-2000	0.56	M-v	3	Williams	39282	1998 WY ₁₈
1998 WJ ₁₉	14.5	0.15	20000226	269.28837	55.09152	206.40322	2.17754	0.1658206	2.4582620	52	3	1994-2000	0.52	M-v	4	Williams	39548	1998 WJ ₁₉
1998 WY ₁₉	14.5	0.15	20000226	85.17965	327.10322	113.41592	14.21255	0.1385059	2.6835872	53	2	1998-2000	0.58	M-v	3	Williams	39282	1998 WY ₁₉
1998 WA ₂₀	12.6	0.15	20000226	345.86645	80.49732	105.45388	10.88332	0.0306194	3.0212392	96	3	1994-2000	0.53	M-v	2	Williams	39282	1998 WA ₂₀
1998 WC ₂₀	13.9	0.15	20000226	98.15830	174.43556	256.93916	7.94694	0.1755867	2.7693888	28	3	1989-2000	0.56	M-v	3	Williams	35727	1998 WC ₂₀
1998 WD ₂₀	12.8	0.15	20000226	85.69870	12.82800	54.44582	1.78521	0.1642288	3.1190673	69	3	1976-2000	0.55	M-v	4	Williams	39548	1998 WD ₂₀
1998 WG ₂₀	10.9	0.15	20000226	42.22519	4.23751	45.49066	21.02971	0.1457151	5.2412780	48	2	1998-2000	0.70	M-v	3	Williams	38536	1998 WG ₂₀
1998 WN ₂₀	13.1	0.15	20000226	326.82939	337.52308	214.64927	4.57211	0.1585547	2.9101650	83	2	1998-2000	0.56	M-v	3	Williams	39283	1998 WN ₂₀
1998 WT ₂₀	13.7	0.15	20000226	317.00911	30.02097	206.70948	4.23436	0.1356055	2.1989157	86	3	1991-2000	0.51	M-v	2	Williams	39548	1998 WT ₂₀
1998 WU ₂₀	13.9	0.15	20000226	328.46698	8.43524	217.12749	7.54181	0.0509253	2.2220221	61	5	1987-2000	0.72	M-v	2	Williams	38798	1998 WU ₂₀
1998 WZ ₂₀	15.4	0.15	20000226	150.82006	103.28742	291.01017	2.24311	0.1701557	2.2479300	41	4	1991-2000	0.75	M-v	2	Williams	35727	1998 WZ ₂₀
1998 WZ ₂₁	14.4	0.15	20000226	130.85863	226.82613	162.61811	0.99484	0.0193036	2.6552009	89	4	1993-2000	0.52	M-v	2	Williams	39548	1998 WZ ₂₁
1998 WB ₂₂	13.8	0.15	20000226	68.61539	314.47100	126.34756	2.94151	0.0432598	2.9134888	62	2	1998-2000	0.54	M-v	3	Williams	39283	1998 WB ₂₂
1998 WS ₂₂	14.9	0.15	20000226	247.17979	208.35791	78.38081	6.08608	0.1311601	2.3265431	49	2	1998-2000	0.61	M-v	4	Williams	39283	1998 WS ₂₂
1998 WL ₂₃	13.8	0.15	20000226	62.09657	201.81237	246.13388	0.82736	0.0275659	2.9006449	89	2	1998-2000	0.58	M-v	3	Williams	39548	1998 WL ₂₃
1998 WF ₂₈	17.0	0.15	19981123	31.80206	149.69403	219.04332	1.17905	0.1884385	2.2778901	16	1	9 days	0.59			Williams		1998 WF ₂₈
1998 WQ ₂₈	13.9	0.15	19981103	251.83944	112.45825	60.57892	24.61989	0.1087768	3.1405609	20	1	12 days	1.38			Williams		1998 WQ ₂₈
1998 WY ₃₀	15.0	0.15	20000226	250.98047	288.51615	5.13955	6.09292	0.2038129	2.1969439	60	3	1991-2000	0.59	M-v	3	Williams	39548	1998 WY ₃₀
1998 WE ₃₁	13.3	0.15	20000226	54.69081	297.89580	132.05399	19.74934	0.1185421	3.2320060	48	2	1998-2000	0.50	M-v	3	Williams	39548	1998 WE ₃₁
1998 XC	13.5	0.15	20000226	215.28298	94.64478	260.96239	3.50907	0.1466818	2.2575954	64	7	1977-2000	0.66	M-v	1	Williams	35727	1998 XC
1998 XN	13.6	0.15	20000226	287.82809	283.13166	294.96359	9.23682	0.1027628	3.3680192	61	2	1998-2000	0.55	M-v	4	Williams	39548	1998 XN
1998 XO	14.4	0.15	20000226	12.16241	193.89859	346.50801	2.97913	0.1025299	2.5997165	44	3	1993-2000	0.78	M-v	4	Williams	33712	1998 XO
1998 XY	14.8	0.15	19981123	30.99139	220.77779	149.49097	0.99579	0.1865388	3.0947179	19	1	28 days	0.77			Williams		1998 XY

1998 XG ₁	14.9	0.15	20000226	43.34127	237.33247	232.67236	10.78759	0.1082328	3.0048677	28	2	1998-2000	0.55	M-v	4	Williams	39284	1998 XG ₁
1998 XH ₁	13.7	0.15	20000226	350.92419	60.84547	110.81502	1.98442	0.1054643	2.8515130	81	3	1997-2000	0.46	M-v	3	Williams	39284	1998 XH ₁
1998 XU ₁	14.7	0.15	20000226	50.55774	285.02366	207.37277	2.64205	0.2303841	2.6939067	23	4	1993-2000	0.56	M-v	1	Williams	39284	1998 XU ₁
1998 XU ₂	13.8	0.15	20000226	146.59973	39.06326	341.68113	12.11057	0.1759875	2.6732924	42	3	1993-2000	0.67	M-v	4	Williams	39285	1998 XU ₂
1998 XA ₃	14.1	0.15	20000226	158.39168	248.00085	123.25321	4.21757	0.1986020	2.5334387	66	2	1998-2000	0.72	M-v	4	Williams	39285	1998 XA ₃
1998 XS ₃	14.1	0.15	20000226	91.40124	23.95536	45.10410	3.44722	0.1215715	3.0595110	51	2	1998-2000	0.69	M-v	4	Williams	39285	1998 XS ₃
1998 XT ₃	14.3	0.15	20000226	93.66129	189.32567	263.78444	7.17227	0.0492525	2.6005922	38	5	1951-2000	0.67	M-v	2	Williams	35638	1998 XT ₃
1998 XU ₃	14.6	0.15	20000226	172.14379	297.65753	67.16301	1.84846	0.2195538	2.3781007	50	3	1950-2000	0.60	M-v	4	Williams	39285	1998 XU ₃
1998 XW ₃	11.9	0.15	20000226	26.82346	63.98464	64.68449	10.34405	0.0369169	3.0451696	83	3	1997-2000	0.54	M-v	2	Williams	39548	1998 XW ₃
1998 XA ₄	13.2	0.15	20000226	156.88160	335.13262	48.91054	8.21070	0.1811792	2.3853622	68	3	1961-2000	0.56	M-v	4	Williams	33767	1998 XA ₄
1998 XR ₄	13.5	0.15	20000226	179.08133	57.72266	308.43384	5.19295	0.0550790	2.6939143	46	3	1997-2000	0.63	M-v	3	Williams	39286	1998 XR ₄
1998 XS ₄	13.3	0.15	20000226	270.29968	350.02435	292.14973	12.27210	0.1623952	2.6360244	50	2	1998-2000	0.67	M-v	4	Williams	39286	1998 XS ₄
1998 XV ₄	13.9	0.15	20000226	347.61550	241.03718	337.85265	2.30285	0.1033961	2.6217780	42	4	1993-2000	0.59	M-v	1	Williams	35727	1998 XV ₄
1998 XB ₅	14.8	0.15	20000226	223.56924	146.74593	181.70249	5.76880	0.1644269	2.2569561	79	4	1984-2000	0.61	M-v	1	Williams	39548	1998 XB ₅
1998 XL ₅	12.1	0.15	20000226	183.28868	175.86804	142.79415	11.12795	0.0944212	2.9889366	98	3	1992-2000	0.56	M-v	2	Williams	39548	1998 XL ₅
1998 XM ₅	12.8	0.15	20000226	2.76990	6.17317	153.20853	13.93799	0.0887537	3.0914994	79	2	1998-2000	0.55	M-v	3	Williams	39548	1998 XM ₅
1998 XP ₆	14.9	0.15	20000226	333.26530	120.37288	74.67397	4.90048	0.0504140	2.6191896	41	2	1998-2000	0.72	M-v	4	Williams	39286	1998 XP ₆
1998 XK ₉	13.9	0.15	20000226	144.11523	285.22440	88.35647	6.82921	0.0754486	2.7693725	58	2	1998-2000	0.66	M-v	4	Williams	39548	1998 XK ₉
1998 XP ₉	13.8	0.15	20000226	40.51588	49.66371	69.70792	11.52191	0.0780157	3.0225455	40	2	1998-2000	0.55	M-v	3	Williams	39286	1998 XP ₉
1998 XQ ₉	14.8	0.15	20000226	205.69212	96.14770	228.30267	4.19815	0.2581851	2.2549466	32	3	1997-2000	0.58	M-v	4	Williams	39548	1998 XQ ₉
1998 XW ₉	13.5	0.15	20000226	116.72003	264.83252	175.02345	2.24927	0.0524107	2.8465634	77	4	1977-2000	0.55	M-v	2	Williams	38538	1998 XW ₉
1998 XO ₁₁	13.4	0.15	20000226	261.29451	299.00651	348.79939	1.62818	0.0512776	2.8454734	85	3	1997-2000	0.53	M-v	4	Williams	39287	1998 XO ₁₁
1998 XQ ₁₂	12.4	0.15	20000226	253.34550	129.36720	126.28883	14.27695	0.1314749	3.0143867	93	3	1997-2000	0.48	M-v	3	Williams	39548	1998 XQ ₁₂
1998 XV ₁₂	13.5	0.15	20000226	57.93599	334.21251	112.32928	6.80891	0.1043631	3.3295206	78	3	1994-2000	0.70	M-v	3	Williams	39548	1998 XV ₁₂
1998 XA ₁₃	10.9	0.15	20000226	3.67521	27.71810	84.04291	12.53448	0.1622301	5.2084895	70	2	1998-2000	0.44	M-v	2	Williams	38798	1998 XA ₁₃
1998 XY ₁₆	13.2	0.15	20000226	181.63278	194.03409	166.86377	5.49496	0.0583576	3.1023298	82	5	1991-2000	0.50	M-v	1	Williams	39548	1998 XY ₁₆
1998 XE ₁₇	12.6	0.15	20000226	78.46949	258.59451	171.34495	3.78633	0.0404786	3.1704680	113	3	1978-2000	0.45	M-v	2	Williams	39548	1998 XE ₁₇
1998 XT ₁₇	13.8	0.15	20000226	128.54233	183.39699	207.97996	5.00526	0.1296486	3.1868012	47	2	1998-2000	0.62	M-v	4	Williams	39287	1998 XT ₁₇
1998 XE ₁₈	15.0	0.15	20000226	303.16960	170.63708	65.79164	7.06747	0.0776305	2.4311100	49	2	1998-2000	0.57	M-v	4	Williams	39287	1998 XE ₁₈
1998 XS ₂₀	13.1	0.15	20000226	312.66167	338.82641	290.30167	15.83738	0.2492838	2.7477124	48	2	1998-2000	0.56	M-v	3	Williams	39288	1998 XS ₂₀
1998 XN ₂₁	13.4	0.15	20000226	119.72060	288.57180	116.94578	2.70835	0.2106592	3.2133804	82	3	1991-2000	0.59	M-v	3	Williams	39548	1998 XN ₂₁
1998 XT ₂₁	14.1	0.15	20000226	36.50771	258.36435	272.70762	2.52248	0.0173099	2.6688579	34	4	1987-2000	0.61	M-v	1	Williams	34933	1998 XT ₂₁
1998 XY ₂₁	14.7	0.15	20000226	260.84681	185.46824	115.20658	1.57565	0.0504598	2.7784458	54	5	1992-2000	0.49	M-v	1	Williams	35728	1998 XY ₂₁
1998 XF ₂₃	14.5	0.15	20000226	323.10444	295.95289	287.58336	1.22642	0.1818660	2.4114206	76	2	1998-2000	0.47	M-v	3	Williams	39288	1998 XF ₂₃
1998 XH ₂₅	14.6	0.15	20000226	315.66612	126.91099	85.94862	6.65807	0.0860830	2.6930442	36	3	1996-2000	0.63	M-v	4	Williams	39548	1998 XH ₂₅
1998 XP ₂₇	13.5	0.15	20000226	225.75555	261.89119	44.51713	6.96894	0.1350998	2.3954244	83	4	1983-2000	0.59	M-v	2	Williams	39548	1998 XP ₂₇
1998 XS ₃₀	13.7	0.15	20000226	18.72965	276.12565	252.37700	12.21788	0.1351529	2.6198184	34	4	1981-2000	0.78	M-v	2	Williams	35728	1998 XS ₃₀
1998 XZ ₃₂	13.1	0.15	20000226	56.90584	117.44161	4.63166	9.97620	0.1598395	2.8882271	47	2	1998-2000	0.59	M-v	3	Williams	39288	1998 XZ ₃₂
1998 XY ₄₁	13.9	0.15	20000226	141.44037	21.50592	31.50119	2.67658	0.1996492	2.3786623	46	5	1992-2000	0.67	M-v	2	Williams	35728	1998 XY ₄₁
1998 XA ₄₂	13.6	0.15	20000226	159.65245	309.12767	91.09692	5.50674	0.0039980	2.4862481	53	5	1974-2000	0.74	M-v	3	Williams	38798	1998 XA ₄₂
1998 XZ ₄₃	12.9	0.15	20000226	75.61060	34.07800	68.96634	13.61323	0.0818443	2.8804302	75	3	1949-2000	0.64	M-v	2	Williams	39548	1998 XZ ₄₃
1998 XF ₄₄	14.1	0.15	20000226	103.95731	75.97816	23.32926	6.25487	0.0966810	2.4381375	40	3	1996-2000	0.82	M-v	4	Williams	34312	1998 XF ₄₄
1998 XH ₄₅	13.1	0.15	20000226	125.64800	39.81028	349.51196	4.20557	0.1515785	3.1519033	45	3	1988-2000	0.58	M-v	4	Williams	39289	1998 XH ₄₅
1998 XX ₄₆	12.4	0.15	20000226	270.99426	358.92151	283.62749	12.47602	0.1626548	2.6111227	51	3	1970-2000	0.63	M-v	3	Williams	39548	1998 XX ₄₆
1998 XT ₄₇	14.4	0.15	20000226	101.50907	58.34064	39.28044	8.93384	0.0526813	2.5627511	23	3	1971-2000	0.88	M-v	4	Williams	33715	1998 XT ₄₇
1998 XG ₄₉	14.2	0.15	20000226	152.10850	338.16618	68.32726	7.80286	0.1193882	2.4538448	36	4	1992-2000	0.63	M-v	2	Williams	33973	1998 XG ₄₉
1998 XZ ₄₉	13.7	0.15	20000226	144.92234	329.18827	62.02045	12.22092	0.1167054	2.8329027	46	2	1998-2000	0.72	M-v	4	Williams	39289	1998 XZ ₄₉
1998 XC ₅₀	13.8	0.15	20000226	2.23166	137.03403	62.25255	9.33883	0.0706321	2.7485050	33	3	1991-2000	0.92	M-v	4	Williams	36005	1998 XC ₅₀
1998 XL ₅₀	13.9	0.15	20000226	156.75076	314.24984	76.00166	3.57299	0.0821432	2.7215095	36	3	1977-2000	0.71	M-v	4	Williams	39548	1998 XL ₅₀
1998 XB ₅₁	13.0	0.15	20000226	37.68531	198.11102	309.60389	8.74589	0.0392285	3.0145735	45	4	1990-2000	0.56	M-v	1	Williams	39548	1998 XB ₅₁
1998 XC ₅₁	12.8	0.15	20000226	330.74188	267.00730	302.15298	11.77266	0.0334073	3.1858138	38	3	1971-2000	0.63	M-v	3	Williams	39548	1998 XC ₅₁
1998 XR ₅₁	13.5	0.15	20000226	182.28470	335.10592	15.36066	8.99211	0.0472613	3.1022533	43	2	1998-2000	0.67	M-v	4	Williams	39289	1998 XR ₅₁
1998 XX ₅₂	12.8	0.15	20000226	196.13299	249.75161	93.72147	3.28436	0.0897223	2.9128158	63	3	1997-2000	0.64	M-v	3	Williams	39289	1998 XX ₅₂

1998 XN ₅₇	14.0	0.15	20000226	139.11437	240.33718	144.37575	2.84050	0.2118148	2.6748389	62	4	1989–2000	0.59	M-v	1	Williams	39548	1998 XN ₅₇
1998 XG ₆₁	12.9	0.15	20000226	190.79030	76.09605	294.25518	15.23320	0.0941720	2.7340515	44	4	1948–2000	0.73	M-v	2	Williams	39289	1998 XG ₆₁
1998 XT ₆₂	12.4	0.15	20000226	4.54177	200.72454	333.77079	17.39814	0.0730143	3.1240829	76	3	1994–2000	0.69	M-v	2	Williams	39548	1998 XT ₆₂
1998 XK ₆₃	14.9	0.15	20000226	193.54974	50.82348	293.29875	7.29145	0.2049627	2.2246280	38	3	1991–2000	0.68	M-v	3	Williams	39548	1998 XK ₆₃
1998 XK ₆₈	14.7	0.15	20000226	115.17222	146.37526	271.40336	4.41733	0.0322000	2.6942982	10	1	8 days	0.48	M-v	8	Williams		1998 XK ₆₈
1998 XS ₇₃	11.9	0.15	20000226	36.08534	174.33720	308.29301	7.68423	0.1539361	4.0040474	86	3	1996–2000	0.62	M-v	2	Williams	39548	1998 XS ₇₃
1998 XN ₇₄	13.9	0.15	20000226	38.82951	228.77675	287.58457	4.38511	0.1166320	3.0117951	30	4	1989–2000	0.71	M-v	1	Williams	34934	1998 XN ₇₄
1998 XR ₇₄	12.7	0.15	20000226	241.83784	335.99953	313.76850	10.71948	0.0533024	3.1588117	40	3	1997–2000	0.65	M-v	3	Williams	39290	1998 XR ₇₄
1998 XF ₇₇	14.4	0.15	20000226	124.20969	267.28471	144.39589	13.43333	0.1607075	2.7281576	31	3	1997–2000	0.70	M-v	4	Williams	39548	1998 XF ₇₇
1998 XM ₇₇	14.0	0.15	20000226	135.08211	231.25978	162.16759	4.74380	0.1143739	2.5772372	66	3	1996–2000	0.58	M-v	4	Williams	39290	1998 XM ₇₇
1998 XO ₇₇	13.4	0.15	20000226	127.01337	295.57529	98.65920	13.48795	0.1636587	2.6322885	62	3	1997–2000	0.58	M-v	3	Williams	39548	1998 XO ₇₇
1998 XE ₈₀	14.6	0.15	20000226	93.33630	246.13762	198.42146	11.02033	0.1687819	2.6978824	39	4	1996–2000	0.46	M-v	1	Williams	35728	1998 XE ₈₀
1998 XZ ₈₁	13.1	0.15	20000226	58.02426	285.25612	185.27871	10.85550	0.1271333	3.0379516	65	2	1998–2000	0.41	M-v	3	Williams	39290	1998 XZ ₈₁
1998 XW ₈₂	12.5	0.15	20000226	109.46899	225.41757	179.37988	10.25683	0.1030299	2.9854525	73	3	1992–2000	0.61	M-v	3	Williams	39549	1998 XW ₈₂
1998 XF ₈₃	13.8	0.15	20000226	65.35815	285.83123	170.15844	10.16983	0.0838593	3.0596357	55	4	1995–2000	0.59	M-v	1	Williams	39549	1998 XF ₈₃
1998 XQ ₈₃	13.1	0.15	20000226	57.73129	298.54946	193.32138	11.99250	0.1288914	2.6781156	51	3	1993–2000	0.59	M-v	2	Williams	39549	1998 XQ ₈₃
1998 XQ ₈₇	14.5	0.15	20000226	183.98908	166.58236	208.84299	1.74047	0.1631264	2.2417492	59	4	1981–2000	0.71	M-v	2	Williams	35728	1998 XQ ₈₇
1998 XO ₈₉	9.9	0.15	20000226	20.23074	208.56226	263.68197	19.52902	0.0362460	5.1582235	67	3	1997–2000	0.74	M-v	2	Williams	39549	1998 XO ₈₉
1998 XA ₉₀	13.6	0.15	20000226	111.10505	222.99414	220.30671	12.20432	0.1454325	2.5446149	42	4	1996–2000	0.67	M-v	2	Williams	35728	1998 XA ₉₀
1998 XC ₉₂	12.8	0.15	20000226	117.11702	159.84501	257.73439	9.83144	0.0325862	3.0442843	31	2	1998–2000	0.66	M-v	3	Williams	39549	1998 XC ₉₂
1998 XF ₉₃	12.4	0.15	20000226	159.06862	89.69158	275.15386	8.20092	0.1082322	3.0527642	50	3	1997–2000	0.61	M-v	3	Williams	39549	1998 XF ₉₃
1998 XC ₉₄	13.8	0.15	20000226	80.39333	289.54517	184.76245	2.18703	0.0282261	2.7475322	31	3	1982–2000	0.74	M-v	4	Williams	33721	1998 XC ₉₄
1998 XR ₉₄	12.9	0.15	20000226	105.32547	186.62807	236.94498	9.53533	0.1209781	3.2095430	31	3	1997–2000	0.67	M-v	3	Williams	39290	1998 XR ₉₄
1998 XC ₉₆	12.7	0.15	20000226	276.64168	336.05316	315.78114	3.92455	0.1335836	3.1974806	61	5	1990–2000	0.65	M-v	1	Williams	36086	1998 XC ₉₆
1998 YC ₁	13.1	0.15	20000226	15.76666	320.50380	194.53409	4.29751	0.0397897	3.1788987	111	2	1998–2000	0.50	M-v	3	Williams	39549	1998 YC ₁
1998 YH ₁	13.3	0.15	20000226	149.03312	330.02887	69.16738	11.78430	0.0350638	3.0075829	53	2	1998–2000	0.55	M-v	4	Williams	39290	1998 YH ₁
1998 YK ₁	13.7	0.15	20000226	154.98006	259.54447	126.04970	3.60289	0.0657203	2.8746712	79	4	1981–2000	0.53	M-v	1	Williams	39549	1998 YK ₁
1998 YL ₁	12.7	0.15	20000226	264.89692	301.03107	320.44439	11.77373	0.1581801	2.6651907	138	2	1998–2000	0.70	M-v	3	Williams	39549	1998 YL ₁
1998 YR ₁	13.1	0.15	20000226	313.16178	130.75819	157.74538	12.63683	0.0604666	2.7331970	40	3	1990–2000	0.64	M-v	3	Williams	34313	1998 YR ₁
1998 YY ₂	15.6	0.15	20000226	347.13312	34.51126	179.52995	3.16515	0.0426745	2.2265914	45	4	1991–2000	0.55	M-v	2	Williams	39549	1998 YY ₂
1998 YA ₃	14.0	0.15	20000226	150.34107	196.82603	183.23982	1.46195	0.0559696	2.7534023	73	3	1995–2000	0.67	M-v	5	Williams	39549	1998 YA ₃
1998 YL ₃	13.7	0.15	20000226	102.51315	55.52029	12.05852	1.02282	0.1217899	3.2551322	56	3	1997–2000	0.62	M-v	3	Williams	39291	1998 YL ₃
1998 YN ₃	13.6	0.15	20000226	217.52343	268.71294	72.54261	6.10215	0.1074431	2.5384055	54	2	1998–2000	0.67	M-v	4	Williams	39291	1998 YN ₃
1998 YO ₃	14.4	0.15	20000226	218.45299	242.30928	94.73657	7.64531	0.1436668	2.3317221	68	3	1980–2000	0.56	M-v	3	Williams	39549	1998 YO ₃
1998 YT ₃	12.8	0.15	20000226	340.64237	59.95348	151.01488	2.53600	0.0155040	2.9015786	77	3	1977–2000	0.48	M-v	3	Williams	39549	1998 YT ₃
1998 YD ₄	12.8	0.15	20000226	10.38713	342.61678	202.14631	2.47521	0.0545069	3.0011930	65	2	1998–2000	0.44	M-v	3	Williams	39291	1998 YD ₄
1998 YH ₄	14.4	0.15	20000226	264.23454	167.95100	119.60380	8.43329	0.1343065	2.2298425	49	3	1994–2000	0.51	M-v	3	Williams	39549	1998 YH ₄
1998 YN ₄	13.8	0.15	20000226	137.69008	87.80432	299.58867	13.64819	0.1357301	2.6001767	77	4	1991–2000	0.81	M-v	3	Williams	35729	1998 YN ₄
1998 YN ₅	13.7	0.15	20000226	178.80952	256.97725	112.80691	14.48034	0.1913858	2.6300532	41	3	1993–2000	0.62	M-v	3	Williams	34035	1998 YN ₅
1998 YP ₅	14.5	0.15	20000226	9.15266	36.89523	146.09624	1.65801	0.0782889	3.1205448	49	2	1998–2000	0.37	M-v	3	Williams	39291	1998 YP ₅
1998 YS ₅	12.3	0.15	20000226	147.70791	285.55860	110.71908	11.53660	0.1019950	2.9971609	75	4	1991–2000	0.57	M-v	1	Williams	39291	1998 YS ₅
1998 YT ₅	14.6	0.15	20000226	69.59588	66.98233	46.09434	2.06313	0.2207597	3.1427426	46	4	1983–2000	0.74	M-v	1	Williams	35641	1998 YT ₅
1998 YN ₆	13.0	0.15	20000226	43.30245	38.30141	125.50467	22.94976	0.0699518	3.2150542	45	4	1995–2000	0.61	M-v	1	Williams	35729	1998 YN ₆
1998 YU ₆	12.0	0.15	20000226	178.89465	54.17070	267.64209	13.24472	0.1016523	3.2106960	56	3	1992–2000	0.61	M-v	3	Williams	39549	1998 YU ₆
1998 YZ ₆	13.2	0.15	20000226	141.53219	266.83325	98.05278	9.81659	0.1724367	2.7890041	59	2	1998–2000	0.55	M-v	4	Williams	39292	1998 YZ ₆
1998 YB ₇	13.0	0.15	20000226	112.81609	97.87286	296.06529	12.76384	0.2066974	2.6499864	88	3	1991–2000	0.72	M-v	2	Williams	39549	1998 YB ₇
1998 YM ₇	13.7	0.15	20000226	166.54691	27.22893	331.26868	13.82420	0.2224779	2.5322617	53	2	1998–2000	0.62	M-v	4	Williams	39549	1998 YM ₇
1998 YC ₈	13.1	0.15	20000226	146.58057	87.34579	281.15969	11.68645	0.2258696	2.5804096	90	3	1985–2000	0.63	M-v	3	Marsden	39549	1998 YC ₈
1998 YL ₈	12.7	0.15	20000226	167.47193	277.14874	94.96339	12.17361	0.2522604	2.5187001	116	3	1991–2000	0.54	M-v	3	Williams	39549	1998 YL ₈
1998 YS ₈	14.5	0.15	20000226	116.45808	246.31597	158.62314	14.40809	0.0840492	2.6425165	35	3	1993–2000	0.52	M-v	3	Williams	39549	1998 YS ₈
1998 YP ₉	13.2	0.15	20000226	97.19808	234.46663	171.78610	4.77284	0.1266799	3.1552053	47	2	1998–2000	0.54	M-v	4	Williams	39292	1998 YP ₉
1998 YS ₉	13.6	0.15	20000226	37.30414	21.12066	137.51287	3.01006	0.1279028	3.2181731	35	4	1996–2000	0.65	M-v	1	Williams	35729	1998 YS ₉
1998 YD ₁₀	13.2	0.15	20000226	124.98380	319.83853	92.62379	3.28640	0.0843633	2.9083790	92	4	1950–2000	0.60	M-v	3	Williams	39549	1998 YD ₁₀

1998 YE ₁₀	12.4	0.15	20000226	228.91964	214.81719	95.19209	17.74242	0.2108904	2.7274670	47	2	1998–2000	0.67	M-v	4	Williams	39549	1998 YE ₁₀
1998 YK ₁₀	14.1	0.15	20000226	207.70609	53.09797	291.98031	11.68941	0.1876041	2.6211337	32	3	1997–2000	0.50	M-v	3	Williams	39293	1998 YK ₁₀
1998 YW ₁₁	13.2	0.15	20000226	313.67519	273.64884	310.72935	8.33220	0.0845074	3.2219875	38	3	1996–2000	0.61	M-v	3	Williams	39549	1998 YW ₁₁
1998 YF ₁₂	12.5	0.15	20000226	260.97074	203.58557	95.91463	11.10321	0.0821953	3.0089340	80	3	1997–2000	0.57	M-v	3	Williams	39549	1998 YF ₁₂
1998 YM ₁₂	13.9	0.15	20000226	171.84752	315.78172	51.20481	2.79557	0.1133634	2.9478720	46	3	1997–2000	0.61	M-v	3	Williams	39293	1998 YM ₁₂
1998 YP ₁₂	12.8	0.15	20000226	192.20133	57.59730	300.48074	1.84075	0.0868488	3.0032642	95	5	1986–2000	0.59	M-v	1	Williams	39549	1998 YP ₁₂
1998 YY ₁₅	14.0	0.15	20000226	93.52041	298.76539	152.71407	2.10001	0.1377814	3.1930618	63	4	1971–2000	0.64	M-v	1	Williams	35729	1998 YY ₁₅
1998 YL ₁₆	13.3	0.15	20000226	134.72327	279.11659	124.70965	5.82371	0.1699853	3.0881718	56	4	1992–2000	0.67	M-v	1	Williams	35729	1998 YL ₁₆
1998 YM ₁₆	14.4	0.15	20000226	33.26973	7.35852	164.86087	1.13080	0.1134044	3.1249636	36	3	1997–2000	0.65	M-v	3	Williams	35729	1998 YM ₁₆
1998 YO ₂₂	13.9	0.15	20000226	118.79575	303.91334	125.12301	11.95449	0.2418968	2.7155475	41	4	1993–2000	0.47	M-v	2	Williams	35730	1998 YO ₂₂
1998 YL ₂₇	13.1	0.15	20000226	239.73001	119.62429	202.54345	2.31105	0.0738043	2.7602341	63	4	1988–2000	0.62	M-v	1	Williams	35442	1998 YL ₂₇
1998 YZ ₂₉	12.7	0.15	20000226	71.57633	74.38038	65.77760	11.34518	0.0541084	2.9894774	48	3	1997–2000	0.68	M-v	3	Williams	34936	1998 YZ ₂₉
1999 AA	12.7	0.15	20000226	172.76562	348.49096	350.59685	10.23686	0.0939351	2.9935377	90	4	1987–2000	0.53	M-v	1	Williams	39549	1999 AA
1999 AD	14.1	0.15	20000226	130.26574	237.28221	190.95150	3.67362	0.1043562	2.2651697	33	4	1972–2000	0.71	M-v	2	Williams	39549	1999 AD
1999 AJ	14.6	0.15	20000226	169.93617	228.60393	163.22093	2.53757	0.2139743	2.4086867	48	5	1990–2000	0.60	M-v	1	Williams	33977	1999 AJ
1999 AQ	14.0	0.15	20000226	123.43195	287.98970	124.62028	11.84671	0.1048501	2.9790583	46	2	1998–2000	0.52	M-v	3	Williams	39293	1999 AQ
1999 AS	13.8	0.15	20000226	220.40303	284.26760	54.04047	4.78578	0.1444348	2.6273098	52	3	1996–2000	0.64	M-v	3	Williams	39549	1999 AS
1999 AX	13.6	0.15	20000226	14.57903	106.19754	101.24907	13.58133	0.1175548	2.6883144	48	4	1989–2000	0.65	M-v	2	Williams	38540	1999 AX
1999 AL ₂	12.4	0.15	20000226	138.93316	75.63688	332.18773	8.96269	0.0971282	3.0183745	60	5	1955–2000	0.77	M-v	1	Williams	39549	1999 AL ₂
1999 AC ₃	14.2	0.15	20000226	200.81600	212.13906	132.43110	14.79169	0.2018830	2.6455091	48	4	1984–2000	0.48	M-v	1	Williams	39549	1999 AC ₃
1999 AK ₃	13.5	0.15	20000226	75.78711	176.05402	243.71197	13.50633	0.1640787	2.7522863	52	3	1991–2000	0.73	M-v	2	Williams	39549	1999 AK ₃
1999 AQ ₃	13.8	0.15	20000226	227.83712	273.09327	68.81555	3.52508	0.0645724	2.9010381	55	5	1972–2000	0.74	M-v	1	Williams	35641	1999 AQ ₃
1999 AC ₄	13.8	0.15	20000226	26.84264	148.73686	25.33465	1.91835	0.1701295	3.1615089	40	5	1991–2000	0.57	M-v	1	Williams	39549	1999 AC ₄
1999 AJ ₄	15.0	0.15	20000226	173.97773	161.22617	217.38775	1.52195	0.2240254	2.3812056	41	4	1983–2000	0.84	M-v	2	Williams	35730	1999 AJ ₄
1999 AR ₄	14.4	0.15	20000226	122.62740	330.61037	109.76882	9.30898	0.1974739	2.7142723	41	3	1989–2000	0.67	M-v	3	Williams	35730	1999 AR ₄
1999 AJ ₅	13.0	0.15	20000226	144.08564	345.86508	67.88504	10.07161	0.2124751	2.6149117	70	6	1968–2000	0.70	M-v	2	Williams	38799	1999 AJ ₅
1999 AM ₆	13.2	0.15	20000226	131.06870	80.07464	323.40141	5.63378	0.0446948	2.3677597	59	4	1992–2000	0.61	M-v	2	Williams	39549	1999 AM ₆
1999 AA ₇	14.0	0.15	20000226	192.36951	148.32540	226.04345	1.65208	0.2122945	2.4183463	26	3	1990–2000	0.75	M-v	5	Williams	33978	1999 AA ₇
1999 AD ₇	13.7	0.15	20000226	105.48585	195.16553	249.33640	3.47352	0.0894960	3.1748508	27	4	1991–2000	0.87	M-v	1	Williams	34315	1999 AD ₇
1999 AX ₇	12.3	0.15	20000226	323.28030	239.78493	359.99416	9.09279	0.0509732	3.1639340	61	7	1977–2000	0.64	M-v	1	Williams	34937	1999 AX ₇
1999 AP ₉	13.4	0.15	20000226	278.78899	80.21163	191.46011	1.57573	0.0416545	2.9416451	71	2	1998–2000	0.56	M-v	5	Williams	39295	1999 AP ₉
1999 AJ ₂₀	13.5	0.15	20000226	88.89527	94.67105	347.16326	1.74448	0.2191163	3.9889914	33	4	1996–2000	0.67	M-v	1	Williams	35730	1999 AJ ₂₀
1999 AH ₂₁	13.4	0.15	20000226	293.77034	37.52890	235.88144	3.14828	0.0948517	2.8353337	51	3	1997–2000	0.69	M-v	4	Williams	39296	1999 AH ₂₁
1999 AL ₂₁	14.3	0.15	20000226	220.35199	197.62755	147.85389	3.14038	0.1978227	2.4347189	38	3	1982–2000	0.62	M-v	3	Williams	39549	1999 AL ₂₁
1999 AU ₂₁	13.4	0.15	20000226	172.33556	234.94941	157.17172	2.00553	0.0822926	3.0035265	58	4	1976–2000	0.70	M-v	1	Williams	35731	1999 AU ₂₁
1999 AS ₂₃	12.5	0.15	20000226	300.60927	144.40730	148.99177	11.78407	0.0945606	2.9934346	38	3	1980–2000	0.64	M-v	4	Williams	34315	1999 AS ₂₃
1999 AE ₂₄	14.1	0.15	20000226	160.09644	288.18138	113.53086	12.76214	0.2967057	2.6506281	32	4	1990–2000	0.70	M-v	2	Williams	34315	1999 AE ₂₄
1999 AL ₂₄	13.6	0.15	20000226	103.13974	288.82447	148.65587	27.57383	0.2073135	2.5866138	19	3	1991–2000	0.48	M-v	3	Williams	39550	1999 AL ₂₄
1999 AN ₃₀	14.7	0.15	20000226	199.55060	90.82020	274.84763	1.44996	0.1801656	2.4590697	26	3	1994–2000	0.42	M-v	4	Williams	35731	1999 AN ₃₀
1999 AU ₃₂	14.1	0.15	20000226	357.81109	219.96659	347.58914	1.53643	0.0106592	2.8632010	19	3	1978–2000	0.46	M-v	4	Williams	33982	1999 AU ₃₂
1999 BM ₁	14.7	0.15	20000226	224.52722	1.00234	339.11496	2.01156	0.2210802	2.4441663	34	3	1978–2000	0.52	M-v	3	Williams	35731	1999 BM ₁
1999 BX ₂	13.0	0.15	20000226	85.79971	2.52657	120.08253	10.71737	0.1280421	3.1776823	48	4	1988–2000	0.70	M-v	2	Williams	35443	1999 BX ₂
1999 BC ₃	13.3	0.15	20000226	103.57058	240.39791	180.93404	4.28201	0.0421375	3.5002880	84	2	1998–2000	0.63	M-v	4	Williams	39296	1999 BC ₃
1999 BD ₄	12.9	0.15	20000226	313.79085	240.16608	6.76707	3.05753	0.1397923	3.1003830	86	3	1978–2000	0.49	M-v	4	Williams	39296	1999 BD ₄
1999 BE ₅	13.8	0.15	20000226	30.89673	78.04078	115.15691	12.75763	0.0776725	2.5852972	53	5	1976–2000	0.73	M-v	2	Williams	38542	1999 BE ₅
1999 BN ₅	14.1	0.15	20000226	133.83699	210.20342	141.19844	5.97877	0.3415592	2.6646673	67	2	1998–2000	0.56	M-v	3	Williams	39550	1999 BN ₅
1999 BK ₈	13.9	0.15	20000226	204.42337	322.21396	58.18396	5.56106	0.1789149	2.2483938	62	5	1977–2000	0.71	M-v	1	Williams	39297	1999 BK ₈
1999 BP ₉	13.8	0.15	20000226	326.58079	119.09550	135.63049	9.89428	0.2625498	2.7628069	41	3	1991–2000	0.65	M-v	3	Williams	39550	1999 BP ₉
1999 BS ₉	12.7	0.15	20000226	181.83945	28.41671	344.02610	11.18149	0.1393945	2.6773695	57	3	1997–2000	0.51	M-v	3	Williams	39297	1999 BS ₉
1999 BS ₁₂	15.0	0.15	20000226	230.58401	122.94155	221.71823	5.10415	0.1377967	2.3893485	31	4	1990–2000	0.64	M-v	1	Williams	34318	1999 BS ₁₂
1999 BT ₁₂	13.3	0.15	20000226	161.31963	153.12563	238.28349	4.36035	0.1604840	3.1279520	47	6	1975–2000	0.73	M-v	1	Williams	35731	1999 BT ₁₂
1999 BK ₁₃	12.6	0.15	20000226	161.80182	249.75157	165.77571	15.73224	0.1299290	3.1927634	47	4	1979–2000	0.58	M-v	1	Williams	34601	1999 BK ₁₃
1999 BF ₁₅	14.2	0.15	20000226	181.82138	182.64374	207.17363	1.86550	0.2038784	2.3974034	38	4	1994–2000	0.67	M-v	2	Williams	35732	1999 BF ₁₅

1999 BL ₂₅	14.4	0.15	20000226	293.46729	122.89779	169.11750	6.63288	0.1353211	2.4826848	40	6	1980–2000	0.64	M-v	1	Williams	35732	1999 BL ₂₅
1999 BW ₂₅	13.3	0.15	20000226	173.16045	216.90784	165.10412	10.33885	0.1645089	2.6742463	68	2	1998–2000	0.65	M-v	4	Williams	39298	1999 BW ₂₅
1999 BV ₂₇	12.7	0.15	20000226	53.49840	21.76348	79.44564	11.50941	0.1947062	3.1587836	55	2	1998–2000	0.49	M-v	3	Williams	39298	1999 BV ₂₇
1999 BL ₂₈	15.3	0.15	20000226	267.91120	196.64794	126.03250	8.07672	0.2245024	2.2600936	29	3	1997–2000	0.56	M-v	4	Williams	38543	1999 BL ₂₈
1999 BQ ₂₈	14.7	0.15	20000226	169.76210	10.93576	7.53353	0.97235	0.1827841	3.1639427	23	3	1997–2000	0.53	M-v	4	Williams	34233	1999 BQ ₂₈
1999 CA	13.0	0.15	20000226	61.36143	82.30572	52.40255	2.78722	0.0447038	2.9454363	71	5	1992–2000	0.73	M-v	1	Williams	35732	1999 CA
1999 CW	12.4	0.15	20000226	77.20225	11.06799	121.07689	7.92249	0.1052255	3.1602437	69	5	1982–2000	0.66	M-v	1	Williams	35443	1999 CW
1999 CF ₁	15.8	0.15	20000226	198.52616	263.34821	122.57013	6.01798	0.2269167	2.3396075	19	3	1997–2000	0.64	M-v	3	Williams	33991	1999 CF ₁
1999 CX ₁	12.7	0.15	20000226	220.84397	245.80398	120.95480	16.08215	0.1910785	2.5723571	44	5	1988–2000	0.47	M-v	2	Williams	39550	1999 CX ₁
1999 CL ₃	12.3	0.15	20000226	148.11679	311.19262	112.34917	10.99692	0.0603019	3.0418135	58	4	1980–2000	0.56	M-v	3	Williams	39550	1999 CL ₃
1999 CF ₄	14.1	0.15	20000226	114.11272	275.86792	156.01085	12.86624	0.0678759	2.5978661	52	3	1993–2000	0.58	M-v	3	Williams	39550	1999 CF ₄
1999 CU ₉	13.7	0.15	20000226	291.73709	18.63590	324.23300	10.73255	0.2653383	2.3948137	39	3	1967–2000	0.63	M-v	4	Williams	35082	1999 CU ₉
1999 CU ₁₇	13.2	0.15	20000226	138.08947	113.37395	302.56453	1.09800	0.0775389	2.9110408	49	3	1977–2000	0.65	M-v	3	Williams	35082	1999 CU ₁₇
1999 CR ₂₀	13.7	0.15	20000226	117.39339	18.88310	70.78076	4.88488	0.0954680	2.7541554	34	6	1979–2000	0.64	M-v	1	Williams	35732	1999 CR ₂₀
1999 CU ₂₅	13.2	0.15	20000226	167.53311	313.83918	85.01535	3.11450	0.0725141	2.8823549	54	4	1987–2000	0.52	M-v	1	Williams	35733	1999 CU ₂₅
1999 CJ ₂₇	14.1	0.15	20000226	145.43574	353.83197	56.16933	6.13775	0.2630625	2.6219940	37	3	1982–2000	0.61	M-v	4	Williams	35733	1999 CJ ₂₇
1999 CQ ₂₇	13.3	0.15	20000226	316.70539	176.58939	82.04946	11.34105	0.0590228	2.9827808	47	3	1997–2000	0.74	M-v	3	Williams	34541	1999 CQ ₂₇
1999 CD ₂₈	12.5	0.15	20000226	304.22358	213.30812	60.49563	8.10490	0.1562278	3.1247028	43	4	1990–2000	0.72	M-v	2	Williams	38799	1999 CD ₂₈
1999 CT ₃₀	12.3	0.15	20000226	292.92468	296.24334	339.64026	9.09352	0.0029438	3.1535650	41	6	1979–2000	0.76	M-v	1	Williams	35443	1999 CT ₃₀
1999 CF ₃₅	13.0	0.15	20000226	162.69880	27.98036	0.45692	9.64309	0.1626483	3.1169275	34	3	1991–2000	0.55	M-v	4	Williams	34242	1999 CF ₃₅
1999 CJ ₃₅	13.0	0.15	20000226	247.59711	323.35063	1.23117	10.38166	0.0946202	3.0049851	36	4	1991–2000	0.52	M-v	1	Williams	39550	1999 CJ ₃₅
1999 CR ₃₅	13.2	0.15	20000226	53.49307	96.22227	65.28545	10.55675	0.0471044	2.9798642	50	3	1997–2000	0.64	M-v	2	Williams	35443	1999 CR ₃₅
1999 CH ₃₈	13.3	0.15	20000226	201.70711	228.99114	131.89012	3.61562	0.1858796	3.1007297	47	4	1991–2000	0.80	M-v	1	Williams	34542	1999 CH ₃₈
1999 CU ₄₆	13.3	0.15	20000226	191.81304	30.33874	352.91346	6.32305	0.0629717	3.0860409	36	4	1991–2000	0.79	M-v	1	Williams	35733	1999 CU ₄₆
1999 CJ ₅₄	13.6	0.15	20000226	159.14819	262.00734	155.56524	8.58099	0.0408673	3.2416830	32	3	1996–2000	0.92	M-v	3	Williams	35733	1999 CJ ₅₄
1999 CO ₅₄	13.0	0.15	20000226	223.00485	213.67589	147.96974	9.78987	0.1061507	2.9817974	35	3	1991–2000	0.75	M-v	4	Williams	34604	1999 CO ₅₄
1999 CX ₅₉	13.1	0.15	20000226	104.37332	257.99921	181.85669	15.55969	0.2039529	3.1050951	33	4	1994–2000	0.62	M-v	1	Williams	35644	1999 CX ₅₉
1999 CH ₆₀	14.4	0.15	20000226	112.71959	274.21571	174.28661	1.36761	0.1270422	3.2239506	32	5	1993–2000	0.58	M-v	1	Marsden	35733	1999 CH ₆₀
1999 CP ₆₁	12.6	0.15	20000226	81.10949	310.05808	163.25994	9.94844	0.0993917	3.3894446	46	3	1990–2000	0.64	M-v	3	Williams	35083	1999 CP ₆₁
1999 CZ ₆₁	13.1	0.15	20000226	74.53033	306.26625	180.95799	11.43805	0.0707719	3.1198047	56	4	1994–2000	0.72	M-v	1	Williams	39550	1999 CZ ₆₁
1999 CG ₆₂	11.9	0.15	20000226	272.52791	121.35692	177.60412	16.63113	0.0190525	2.9439802	51	2	1999–2000	0.47	M-v	3	Williams	39550	1999 CG ₆₂
1999 CP ₆₂	13.9	0.15	20000226	140.38504	278.46369	149.56440	14.96131	0.1731540	2.5976765	28	4	1993–2000	0.50	M-v	2	Williams	35733	1999 CP ₆₂
1999 CC ₆₃	13.0	0.15	20000226	340.46601	13.91993	225.92019	5.05594	0.1365255	3.1771170	36	4	1994–2000	0.72	M-v	1	Williams	39550	1999 CC ₆₃
1999 CD ₆₃	13.0	0.15	20000226	254.65324	143.43820	177.49521	9.24265	0.1546800	2.7974232	41	5	1987–2000	0.68	M-v	1	Williams	38799	1999 CD ₆₃
1999 CN ₆₃	13.7	0.15	20000226	159.40837	197.99848	210.35800	11.58811	0.0604731	2.9118443	19	3	1992–2000	0.84	M-v	5	Williams	34546	1999 CN ₆₃
1999 CU ₇₀	12.7	0.15	20000226	297.79663	111.31888	171.62633	9.62149	0.0727301	3.0650212	38	3	1996–2000	0.78	M-v	4	Williams	34547	1999 CU ₇₀
1999 CR ₇₄	13.4	0.15	20000226	30.12894	7.29976	180.60127	9.29835	0.0410302	3.1658281	27	3	1995–2000	0.43	M-v	2	Williams	34250	1999 CR ₇₄
1999 CJ ₇₈	12.6	0.15	20000226	165.06215	200.67097	189.82742	7.84233	0.2090553	3.1819338	45	4	1979–2000	0.57	M-v	1	Williams	39550	1999 CJ ₇₈
1999 CK ₈₂	14.8	0.15	20000226	208.36872	265.08014	98.58984	7.08709	0.1428897	2.3435516	26	4	1990–2000	0.73	M-v	2	Williams	38545	1999 CK ₈₂
1999 CY ₈₂	13.5	0.15	20000226	123.37813	51.63873	357.76603	8.44988	0.1651157	3.1066876	50	3	1994–2000	0.69	M-v	4	Williams	39550	1999 CY ₈₂
1999 CA ₉₇	13.3	0.15	20000226	276.03474	146.50714	162.98340	2.10368	0.0821697	2.9662865	44	5	1976–2000	0.79	M-v	1	Williams	39550	1999 CA ₉₇
1999 CY ₁₁₈	8.7	0.15	20000226	357.55344	15.45577	163.12545	25.61886	0.6149330	89.8158303	20	2	1999–2000	0.24	M-v	4	Marsden	37809	1999 CY ₁₁₈
1999 CZ ₁₁₈	7.8	0.15	20000226	350.26467	235.54221	345.17687	27.80449	0.6562935	110.3685519	18	2	1999–2000	0.20	M-v	3	Marsden	37809	1999 CZ ₁₁₈
1999 CM ₁₃₆	13.4	0.15	20000226	295.57711	317.96278	305.61038	7.27443	0.0817120	3.2269337	33	4	1996–2000	0.67	M-v	2	Williams	39550	1999 CM ₁₃₆
1999 CV ₁₃₆	15.0	0.15	20000226	206.37840	48.13581	304.71805	3.63352	0.1625307	2.6844615	27	4	1979–2000	0.55	M-v	1	Williams	35734	1999 CV ₁₃₆
1999 DO ₂	12.6	0.15	20000226	88.17322	87.41786	46.43313	17.66483	0.0971859	3.2240208	43	3	1991–1999	0.69	M-v	2	Williams	39300	1999 DO ₂
1999 EQ ₄	12.4	0.15	20000226	152.08512	262.35848	190.95892	9.67404	0.0652122	3.0157073	61	5	1993–2000	0.74	M-v	1	Williams	35734	1999 EQ ₄
1999 EH ₅	12.4	0.15	20000226	123.26612	136.15148	356.36542	9.69841	0.0306811	3.0096246	69	6	1975–2000	0.69	M-v	1	Williams	38800	1999 EH ₅
1999 GJ ₄	15.1	0.15	20000226	69.87208	211.79437	148.37030	34.58054	0.8079856	1.3386457	178	5	1955–2000	0.63	M-v	3	Marsden	39550	1999 GJ ₄
1999 HF ₁	14.5	0.15	20000226	162.91304	253.33804	155.96633	25.65859	0.4624888	0.8190757	572	2	1999–2000	0.50	M-v	4	Williams	37811	1999 HF ₁
1999 LD ₃₁	13.5	0.15	20000226	0.82597	102.18787	296.98427	160.19362	0.9026341	24.4196313	260	2	1999–2000	0.52	M-v	0	Marsden	39550	1999 LD ₃₁
1999 LE ₃₁	12.4	0.15	20000226	18.04590	32.64792	292.02441	151.88145	0.4720730	8.1632449	111	2	1999–2000	0.63	M-v	2	Williams	39550	1999 LE ₃₁
1999 NU	15.0	0.15	20000226	16.37815	81.68140	281.90124	6.16273	0.1404526	2.3052027	23	1	99 days	0.51	M-v	5	Williams	36088	1999 NU

1999 NN ₂	14.0	0.15	20000226	0.22299	133.08026	260.97529	15.67407	0.2321431	3.1092150	59	4	1950–1999	0.55	M-v	2	Williams	38551	1999 NN ₂
1999 NF ₄	15.7	0.15	20000226	65.62925	327.36044	322.29244	3.39494	0.2175782	2.5563259	38	1	94 days	0.46	M-v	4	Williams	36544	1999 NF ₄
1999 NO ₇	15.2	0.15	20000226	52.21971	32.93200	290.68474	6.15951	0.1072089	2.2194566	34	1	125 days	0.57	M-v	4	Williams	36544	1999 NO ₇
1999 NA ₈	15.6	0.15	20000226	92.67165	86.07231	176.48298	1.19503	0.1848436	2.3301761	24	1	94 days	0.58	M-v	5	Williams	36545	1999 NA ₈
1999 NP ₈	14.3	0.15	20000226	126.97498	306.84490	281.86052	3.83217	0.0826765	2.5583931	48	2	1998–1999	0.63	M-v	3	Williams	39307	1999 NP ₈
1999 NV ₈	14.8	0.15	20000226	75.41578	353.28871	284.95501	1.45697	0.1640359	2.5918465	45	1	94 days	0.54	M-v	4	Williams	36545	1999 NV ₈
1999 NM ₉	14.9	0.15	20000226	178.14236	353.71406	201.64591	1.20565	0.0522977	2.1909162	56	3	1996–1999	0.51	M-v	3	Williams	38069	1999 NM ₉
1999 NP ₁₀	15.3	0.15	20000226	100.91293	294.01640	318.68423	2.95650	0.2075002	2.3471206	37	1	94 days	0.49	M-v	5	Williams	36545	1999 NP ₁₀
1999 NQ ₁₁	14.1	0.15	20000226	66.13159	135.17990	164.83615	2.71435	0.0428505	2.6949981	58	2	1998–1999	0.52	M-v	3	Williams	38551	1999 NQ ₁₁
1999 NV ₁₁	15.3	0.15	20000226	38.32399	52.54699	302.73767	4.50666	0.2643612	2.2952963	74	2	1992–1999	0.60	M-v	3	Williams	37289	1999 NV ₁₁
1999 NX ₁₄	14.2	0.15	20000226	30.34082	256.81874	77.43602	3.07331	0.2119793	2.4339258	34	2	1998–1999	0.68	M-v	4	Williams	38552	1999 NX ₁₄
1999 NO ₁₈	14.2	0.15	20000226	28.27927	290.77515	48.59912	3.17364	0.2048007	2.3983338	39	2	1998–1999	0.61	M-v	4	Williams	38552	1999 NO ₁₈
1999 NW ₃₇	14.7	0.15	20000226	45.26847	245.29141	76.84936	2.92136	0.1185195	2.4029734	48	3	1981–1999	0.66	M-v	3	Williams	38553	1999 NW ₃₇
1999 NB ₃₈	10.5	0.15	20000226	14.45042	356.54901	317.99915	25.25424	0.0825316	5.1548421	43	1	120 days	0.51	M-v	4	Williams	37289	1999 NB ₃₈
1999 NG ₃₈	14.5	0.15	20000226	81.78687	284.74348	353.87691	4.80148	0.1384882	2.3181144	37	1	119 days	0.53	M-v	4	Williams	36907	1999 NG ₃₈
1999 NA ₃₉	15.1	0.15	20000226	42.44891	335.81673	358.81370	1.80096	0.1953520	2.3089016	31	3	1992–1999	0.73	M-v	3	Williams	39308	1999 NA ₃₉
1999 NP ₃₉	15.1	0.15	20000226	6.66422	35.61010	349.92552	4.70657	0.2584065	2.4302499	35	1	119 days	0.49	M-v	4	Williams	38069	1999 NP ₃₉
1999 NM ₄₀	15.6	0.15	20000226	57.42375	345.26568	312.33876	12.37381	0.2560816	2.6192494	40	1	86 days	0.49	M-v	4	Williams	36546	1999 NM ₄₀
1999 NK ₄₁	14.6	0.15	20000226	32.80801	14.06339	337.16497	7.93294	0.1746474	2.3096402	77	5	1978–1999	0.78	M-v	3	Williams	38069	1999 NK ₄₁
1999 NY ₄₁	13.3	0.15	20000226	359.16219	37.54427	334.33102	17.98317	0.1606135	3.1693889	61	1	117 days	0.54	M-v	4	Williams	36907	1999 NY ₄₁
1999 NC ₄₃	15.8	0.15	20000226	17.20465	120.27490	312.03934	7.11418	0.5795967	1.7593825	202	2	1999–2000	0.46	M-v	3	Williams	39550	1999 NC ₄₃
1999 NC ₄₉	15.1	0.15	20000226	40.75669	154.53352	175.80166	3.15298	0.1723152	2.3685735	20	2	1981–1999	0.50	M-v	4	Williams	38069	1999 NC ₄₉
1999 NY ₄₉	15.0	0.15	20000226	87.05659	57.15219	214.78605	2.65281	0.1811684	2.2680496	31	1	95 days	0.43	M-v	4	Williams	36546	1999 NY ₄₉
1999 NV ₅₄	14.3	0.15	20000226	31.82254	129.84288	197.61294	10.50130	0.1220439	3.0559412	32	3	1997–1999	0.75	M-v	3	Williams	38555	1999 NV ₅₄
1999 OV ₁	14.4	0.15	20000226	23.37540	73.42267	313.98703	5.55840	0.1516650	2.3057328	54	3	1985–2000	0.64	M-v	2	Williams	38069	1999 OV ₁
1999 OZ ₁	14.2	0.15	20000226	54.48132	80.08510	259.05634	12.94786	0.2426507	2.5615366	56	2	1995–1999	0.56	M-v	4	Williams	38801	1999 OZ ₁
1999 OB ₂	14.8	0.15	20000226	61.11725	79.72761	236.39516	14.16581	0.2615325	2.8708046	39	1	105 days	0.52	M-v	4	Williams	36908	1999 OB ₂
1999 OD ₂	13.9	0.15	20000226	51.33998	96.45328	235.24113	14.86645	0.2432951	3.0653774	60	1	137 days	0.46	M-v	4	Williams	37290	1999 OD ₂
1999 OJ ₂	12.8	0.15	20000226	260.67510	256.01108	259.23317	12.41557	0.1046601	2.5908629	86	3	1987–2000	0.55	M-v	2	Williams	38070	1999 OJ ₂
1999 OM ₂	14.0	0.15	20000226	213.93300	291.57058	281.85038	17.99365	0.0590247	1.9420343	51	1	193 days	0.46	M-v	3	Williams	38801	1999 OM ₂
1999 OQ ₂	12.1	0.15	20000226	51.07210	63.93590	289.75634	11.96287	0.2531631	2.6093335	52	3	1988–2000	0.46	M-v	2	Williams	38801	1999 OQ ₂
1999 OR ₂	13.7	0.15	20000226	339.90523	173.01684	280.92388	12.18598	0.1175242	2.3417925	61	3	1985–2000	0.53	M-v	3	Williams	38070	1999 OR ₂
1999 OS ₂	14.3	0.15	20000226	60.54434	56.17827	288.91063	12.09873	0.1996152	2.5559474	58	1	193 days	0.55	M-v	4	Williams	38801	1999 OS ₂
1999 OY ₂	14.1	0.15	20000226	49.01046	109.57546	223.95717	24.08208	0.3718272	3.1336485	73	1	171 days	0.50	M-v	3	Williams	38801	1999 OY ₂
1999 OB ₃	12.2	0.15	20000226	57.02904	92.90409	256.40919	12.26820	0.0984946	2.9891446	94	3	1989–2000	0.60	M-v	2	Williams	38070	1999 OB ₃
1999 OC ₃	14.3	0.15	20000226	61.54146	25.83607	318.90786	17.64619	0.2321523	2.6061283	30	1	164 days	0.45	M-v	4	Williams	38801	1999 OC ₃
1999 OG ₃	14.7	0.15	20000226	55.01349	137.63684	233.28290	20.65049	0.2361875	2.2965402	91	3	1992–2000	0.54	M-v	2	Williams	38801	1999 OG ₃
1999 OH ₃	13.4	0.15	20000226	62.37481	98.60783	243.97495	18.88346	0.2142647	2.7875122	106	2	1998–2000	0.53	M-v	3	Williams	38070	1999 OH ₃
1999 OJ ₃	14.1	0.15	20000226	66.21458	109.94445	226.03356	28.25476	0.2487387	2.6352150	110	2	1998–2000	0.69	M-v	3	Williams	38801	1999 OJ ₃
1999 OO ₃	14.6	0.15	20000226	40.13506	128.80857	232.76290	11.93998	0.2214117	2.5284570	65	1	136 days	0.47	M-v	3	Williams	37290	1999 OO ₃
1999 PB	15.9	0.15	20000226	57.00398	339.45183	328.12376	3.68948	0.1819362	2.4764167	34	1	89 days	0.53	M-v	4	Williams	38801	1999 PB
1999 PB ₁	15.5	0.15	20000226	53.44453	209.51782	139.22391	3.92281	0.2308210	2.5636839	48	1	90 days	0.44	M-v	4	Williams	37290	1999 PB ₁
1999 PP ₁	14.0	0.15	20000226	342.66235	40.50462	9.50757	9.97001	0.1094051	3.0622448	53	1	84 days	0.47	M-v	4	Williams	36908	1999 PP ₁
1999 PU ₁	14.1	0.15	20000226	337.02420	56.92620	346.44642	9.73244	0.0631377	3.0096556	50	1	80 days	0.58	M-v	5	Williams	36908	1999 PU ₁
1999 PY ₃	11.9	0.15	20000226	48.49456	129.11464	148.53401	26.30693	0.0934809	5.1838790	40	1	94 days	0.58	M-v	4	Williams	36549	1999 PY ₃
1999 PZ ₃	16.4	0.15	20000226	301.56739	130.01789	340.02487	20.58021	0.0924612	1.8713910	41	1	62 days	0.75	M-v	5	Williams	36549	1999 PZ ₃
1999 PD ₄	14.3	0.15	20000226	5.18039	262.71409	124.76452	5.81792	0.1003794	2.7700981	47	1	109 days	0.59	M-v	4	Williams	37291	1999 PD ₄
1999 PE ₄	15.7	0.15	20000226	21.61311	231.30137	137.56874	8.12345	0.2727003	3.0118712	30	1	91 days	0.66	M-v	4	Williams	36909	1999 PE ₄
1999 PH ₄	15.0	0.15	20000226	18.70030	238.50413	129.61101	5.56595	0.2007578	3.1173424	46	1	91 days	0.60	M-v	4	Williams	36909	1999 PH ₄
1999 PO ₄	14.6	0.15	20000226	30.48608	20.44783	349.34372	19.23278	0.3057017	2.5650239	105	1	112 days	0.43	M-v	3	Williams	38070	1999 PO ₄
1999 PP ₄	12.9	0.15	20000226	47.32136	297.12439	33.06369	6.57441	0.0790959	3.1934869	70	1	137 days	0.55	M-v	3	Williams	38801	1999 PP ₄
1999 PR ₄	15.6	0.15	20000226	358.09382	225.63277	191.86025	3.40027	0.1529520	2.2346313	73	1	61 days	0.58	M-v	4	Williams	36549	1999 PR ₄
1999 PS ₄	15.8	0.15	20000226	354.26500	162.25108	259.06610	1.43863	0.1579219	2.2856829	68	1	61 days	0.56	M-v	4	Williams	36549	1999 PS ₄

1999 PB ₅	13.5	0.15	20000226	24.73172	354.11345	24.56147	11.47098	0.0809942	3.2378668	83	1	146 days	0.49	M-v	3	Williams	38070	1999 PB ₅
1999 PS ₅	15.4	0.15	20000226	15.69047	235.07543	159.01222	6.81391	0.3446395	2.5985722	90	2	1978–1999	0.68	M-v	3	Williams	37291	1999 PS ₅
1999 QA	14.8	0.15	20000226	88.97686	130.35056	168.77239	7.18392	0.1067999	2.3992519	87	1	95 days	0.62	M-v	4	Williams	36909	1999 QA
1999 QH	14.8	0.15	20000226	74.53720	283.57944	23.08594	5.80067	0.1494474	2.2365534	59	1	81 days	0.49	M-v	4	Williams	38070	1999 QH
1999 QQ ₁	15.6	0.15	20000226	23.49712	176.07552	228.96875	5.20831	0.3138234	2.5755780	65	1	139 days	0.62	M-v	3	Williams	38801	1999 QQ ₁
1999 QT ₁	14.1	0.15	20000226	327.08473	130.72838	316.11931	11.81092	0.1433574	2.6324812	74	1	136 days	0.62	M-v	4	Williams	38801	1999 QT ₁
1999 QU ₁	15.5	0.15	20000226	33.08740	80.42489	296.99156	5.40184	0.2692098	2.3773326	75	1	136 days	0.50	M-v	3	Williams	38801	1999 QU ₁
1999 QB ₂	13.7	0.15	20000226	35.27947	43.64437	305.65747	6.75391	0.2343823	2.7975139	81	1	133 days	0.56	M-v	3	Williams	37291	1999 QB ₂
1999 QH ₂	15.0	0.15	20000226	37.57464	32.97444	306.86667	0.44415	0.2508552	3.1697305	75	1	83 days	0.51	M-v	4	Williams	38801	1999 QH ₂
1999 QJ ₂	14.6	0.15	20000226	79.89636	123.32847	164.65358	13.93155	0.2383987	2.6749962	72	1	85 days	0.58	M-v	4	Williams	37291	1999 QJ ₂
1999 QP ₂	13.8	0.15	20000226	254.65816	195.39239	307.81450	8.76627	0.1299263	2.3647020	53	2	1988–1999	0.56	M-v	4	Williams	38556	1999 QP ₂
1999 RC	13.9	0.15	20000226	55.72042	356.04411	344.79059	13.04128	0.1698930	2.5454753	87	4	1993–1999	0.50	M-v	2	Williams	37291	1999 RC
1999 RE	15.4	0.15	20000226	61.03282	300.92397	23.88425	12.07731	0.3084657	2.6455556	64	1	74 days	0.54	M-v	4	Williams	38070	1999 RE
1999 RN	15.7	0.15	20000226	353.50527	68.53000	351.60827	3.71355	0.1198229	2.3353051	92	1	107 days	0.54	M-v	4	Williams	38801	1999 RN
1999 RU	15.9	0.15	20000226	33.43248	209.91996	153.67592	4.84105	0.1866540	2.3236423	71	1	85 days	0.64	M-v	4	Williams	38070	1999 RU
1999 RD ₁	16.0	0.15	20000226	28.23905	335.36002	40.35054	2.47625	0.1702096	2.2671102	87	1	95 days	0.53	M-v	4	Williams	38070	1999 RD ₁
1999 RN ₁	16.0	0.15	20000226	1.77637	132.85407	278.85339	1.44663	0.1991583	2.4325438	63	1	70 days	0.57	M-v	5	Williams	38070	1999 RN ₁
1999 RR ₁	15.5	0.15	20000226	153.49632	287.41119	309.39527	2.86830	0.1250530	2.2732364	50	3	1984–1999	0.50	M-v	3	Williams	38801	1999 RR ₁
1999 RS ₁	15.1	0.15	20000226	333.06721	103.79393	341.24244	3.87569	0.1234058	2.2574332	91	1	117 days	0.56	M-v	4	Williams	38801	1999 RS ₁
1999 RU ₁	16.4	0.15	20000226	40.10838	225.52744	137.44150	0.49140	0.2216924	2.3543760	57	2	1997–1999	0.66	M-v	4	Williams	38070	1999 RU ₁
1999 RX ₁	15.7	0.15	20000226	60.35796	346.97763	347.23926	2.11892	0.2099760	2.4401053	76	1	116 days	0.53	M-v	4	Williams	37291	1999 RX ₁
1999 RC ₂	16.2	0.15	20000226	104.63662	347.68949	331.00469	24.51565	0.1485760	1.6192368	87	2	1989–2000	0.55	M-v	3	Williams	38070	1999 RC ₂
1999 RD ₂	12.4	0.15	20000226	320.50721	113.26772	23.51746	32.70547	0.3187068	2.7951572	97	1	147 days	0.41	M-v	3	Williams	38801	1999 RD ₂
1999 RE ₂	14.6	0.15	20000226	25.76757	215.84800	192.47465	8.47024	0.2443032	2.3781525	87	1	181 days	0.54	M-v	3	Williams	39550	1999 RE ₂
1999 RL ₂	14.6	0.15	19990919	69.15206	318.79704	294.69599	14.08653	0.1755059	2.6859387	28	1	38 days	1.09			Williams		1999 RL ₂
1999 RQ ₂	16.3	0.15	20000226	128.98024	71.50371	202.67439	20.71147	0.0783449	1.9044059	28	1	69 days	0.49	M-v	4	Williams	38071	1999 RQ ₂
1999 RR ₂	12.4	0.15	20000226	327.73026	173.42400	259.48572	17.32868	0.1702631	3.1414478	52	1	137 days	0.42	M-v	4	Williams	38071	1999 RR ₂
1999 RY ₂	13.1	0.15	20000226	113.74970	72.98199	179.31406	12.44492	0.1685848	3.2333652	62	4	1993–1999	0.81	M-v	1	Williams	36384	1999 RY ₂
1999 RZ ₂	14.1	0.15	20000226	347.76876	97.69505	319.41982	0.97489	0.0796724	2.8701218	72	3	1995–1999	0.58	M-v	3	Williams	38071	1999 RZ ₂
1999 RA ₃	15.2	0.15	20000226	352.32939	238.47277	191.10752	2.39918	0.1575158	2.4195815	74	1	92 days	0.55	M-v	4	Williams	37291	1999 RA ₃
1999 RB ₃	15.1	0.15	20000226	220.54319	198.01488	352.65822	4.46265	0.0512926	2.2552867	107	4	1984–1999	0.62	M-v	3	Williams	38071	1999 RB ₃
1999 RC ₃	13.9	0.15	20000226	333.71513	71.61319	4.03047	10.86213	0.1457138	3.2205096	83	1	71 days	0.56	M-v	5	Williams	38071	1999 RC ₃
1999 RD ₃	14.8	0.15	20000226	0.12506	219.17733	196.38165	2.44404	0.1358436	2.2825067	109	3	1982–1999	0.53	M-v	3	Williams	38801	1999 RD ₃
1999 RE ₃	16.5	0.15	20000226	48.77826	153.14258	182.71370	4.49357	0.3128985	2.5878979	76	1	84 days	0.58	M-v	4	Williams	37291	1999 RE ₃
1999 RF ₃	15.7	0.15	20000226	47.00388	7.50853	348.39532	4.28527	0.1831501	2.2947275	74	1	86 days	0.54	M-v	4	Williams	38071	1999 RF ₃
1999 RH ₃	16.3	0.15	20000226	29.85956	41.64717	320.10337	1.62437	0.2469103	2.3463817	68	1	85 days	0.56	M-v	4	Williams	36910	1999 RH ₃
1999 RJ ₃	14.6	0.15	20000226	342.62929	294.40800	135.88400	2.64891	0.0769762	3.0057901	35	3	1994–1999	0.63	M-v	4	Williams	36910	1999 RJ ₃
1999 RK ₃	15.6	0.15	20000226	305.07353	75.39681	44.23857	7.28734	0.0404890	2.2256090	61	1	94 days	0.61	M-v	4	Williams	38071	1999 RK ₃
1999 RL ₃	12.8	0.15	20000226	0.49475	69.73369	36.21918	15.39667	0.0785050	2.5867931	62	1	203 days	0.41	M-v	3	Williams	39550	1999 RL ₃
1999 RM ₃	14.3	0.15	20000226	117.47654	356.28425	256.58266	3.98331	0.1228880	2.2886912	50	1	141 days	0.48	M-v	4	Williams	37291	1999 RM ₃
1999 RN ₃	16.0	0.15	20000226	29.07250	142.77740	208.10852	4.80678	0.2527896	2.5421936	39	1	95 days	0.51	M-v	4	Williams	36551	1999 RN ₃
1999 RP ₃	14.7	0.15	20000226	313.51505	232.35432	205.00016	5.27708	0.1446322	2.3061967	59	3	1996–1999	0.67	M-v	3	Williams	36385	1999 RP ₃
1999 RY ₃	15.3	0.15	20000226	24.74697	48.95924	298.08111	5.91886	0.1583517	2.7334089	38	2	1997–1999	0.50	M-v	4	Williams	38556	1999 RY ₃
1999 RD ₄	14.9	0.15	20000226	41.89109	157.37896	166.34065	9.29269	0.1574301	2.7465336	41	2	1998–1999	0.74	M-v	4	Williams	36385	1999 RD ₄
1999 RJ ₄	16.2	0.15	20000226	13.82188	92.42327	284.38211	4.42275	0.0965408	2.1663366	35	1	94 days	0.68	M-v	5	Williams	36551	1999 RJ ₄
1999 RS ₆	14.4	0.15	20000226	291.26638	315.32334	163.82928	9.83866	0.1757867	2.4003212	59	3	1997–1999	0.59	M-v	3	Williams	36386	1999 RS ₆
1999 RZ ₆	14.2	0.15	20000226	71.51256	304.05291	359.37935	6.61430	0.1959703	2.9932253	45	1	107 days	0.50	M-v	4	Williams	37291	1999 RZ ₆
1999 RK ₇	15.1	0.15	20000226	65.58038	318.06189	16.14774	2.07489	0.2441721	2.1738359	104	1	175 days	0.48	M-v	3	Williams	38071	1999 RK ₇
1999 RX ₇	16.7	0.15	20000226	50.46865	350.94667	8.17306	6.49358	0.1454478	2.2260290	42	1	61 days	0.64	M-v	5	Williams	36910	1999 RX ₇
1999 RA ₈	15.8	0.15	20000226	62.26804	168.67276	162.25412	4.52323	0.1395449	2.6493278	40	1	61 days	0.61	M-v	5	Williams	36910	1999 RA ₈
1999 RK ₈	15.0	0.15	20000226	330.57007	88.22062	340.20853	7.29558	0.0749937	2.4297569	63	1	89 days	0.43	M-v	4	Williams	38071	1999 RK ₈
1999 RE ₉	14.5	0.15	20000226	359.17401	228.14641	166.37465	6.27018	0.1213330	2.8009202	46	1	94 days	0.61	M-v	5	Williams	38801	1999 RE ₉
1999 RA ₁₀	14.2	0.15	20000226	140.42308	69.02835	178.91831	0.66237	0.0788417	2.8479949	54	1	63 days	0.61	M-v	5	Williams	38071	1999 RA ₁₀

1999 RG ₁₀	14.5	0.15	20000226	354.69912	84.76593	334.68433	22.35874	0.3286680	2.2731119	41	1	117 days	0.47	M-v	4	Williams	38071	1999 RG ₁₀
1999 RS ₁₀	13.7	0.15	20000226	339.81540	245.94429	158.26949	14.73030	0.0666105	2.4453058	86	2	1998–1999	0.56	M-v	3	Williams	37291	1999 RS ₁₀
1999 RU ₁₀	14.5	0.15	20000226	222.09267	201.54150	332.15392	20.58659	0.0574826	1.9224674	52	1	108 days	0.37	M-v	4	Williams	38071	1999 RU ₁₀
1999 RY ₁₀	14.3	0.15	20000226	356.48894	77.55129	327.20347	6.42974	0.1789843	2.3085915	77	2	1994–1999	0.45	M-v	3	Williams	37292	1999 RY ₁₀
1999 RO ₁₁	15.3	0.15	20000226	4.13173	56.21523	340.61761	5.31962	0.1875325	2.3164115	56	4	1980–1999	0.53	M-v	3	Williams	36387	1999 RO ₁₁
1999 RR ₁₁	14.7	0.15	20000226	101.40629	70.40111	184.14612	8.73147	0.2406656	2.3865721	42	2	1991–1999	0.44	M-v	5	Williams	36387	1999 RR ₁₁
1999 RV ₁₁	14.2	0.15	20000226	4.01278	72.83131	334.85574	22.51528	0.2625433	2.3329263	65	1	120 days	0.53	M-v	4	Williams	37292	1999 RV ₁₁
1999 RK ₁₂	14.2	0.15	20000226	35.08418	125.86473	217.63310	3.18987	0.0568273	2.7456274	25	2	1993–1999	0.51	M-v	5	Williams	37180	1999 RK ₁₂
1999 RL ₁₂	15.6	0.15	20000226	34.16664	139.09482	223.62815	2.47860	0.1865142	2.3090682	51	1	63 days	0.56	M-v	5	Williams	38071	1999 RL ₁₂
1999 RS ₁₂	15.0	0.15	20000226	28.77236	55.12577	309.34195	6.81873	0.1241720	2.3659749	55	1	77 days	0.42	M-v	4	Williams	38071	1999 RS ₁₂
1999 RZ ₁₂	13.5	0.15	20000226	0.70517	199.05494	180.35285	9.39598	0.0864905	2.9783357	61	1	82 days	0.55	M-v	5	Williams	36910	1999 RZ ₁₂
1999 RB ₁₃	15.4	0.15	20000226	69.49600	148.45049	164.49597	14.23029	0.1094067	2.4083534	49	1	66 days	0.50	M-v	4	Williams		1999 RB ₁₃
1999 RL ₁₃	14.7	0.15	20000226	325.14684	101.07319	345.42222	2.16064	0.1939349	2.3447765	48	1	64 days	0.58	M-v	6	Williams	38071	1999 RL ₁₃
1999 RB ₁₄	14.3	0.15	20000226	10.57827	25.13546	346.98832	15.70158	0.2270673	3.1659135	63	1	96 days	0.59	M-v	4	Williams	38801	1999 RB ₁₄
1999 RF ₁₄	14.4	0.15	20000226	346.51018	90.89964	345.29597	20.81966	0.2831991	2.2963495	125	1	113 days	0.52	M-v	4	Williams	37292	1999 RF ₁₄
1999 RJ ₁₄	14.9	0.15	20000226	62.76532	305.88713	4.74243	2.66631	0.2080427	2.5336347	48	1	65 days	0.74	M-v	5	Williams	38071	1999 RJ ₁₄
1999 RO ₁₄	14.6	0.15	20000226	269.92935	300.17894	179.39020	4.54482	0.0245717	2.4377106	76	2	1998–1999	0.60	M-v	4	Williams	38071	1999 RO ₁₄
1999 RQ ₁₄	15.6	0.15	20000226	30.03362	39.30670	327.27745	3.73383	0.1212987	2.3114403	65	3	1994–1999	0.66	M-v	3	Williams	38071	1999 RQ ₁₄
1999 RU ₁₄	14.0	0.15	20000226	28.85308	8.69328	340.43793	9.43645	0.1031157	2.9827656	45	1	69 days	0.37	M-v	4	Williams	36910	1999 RU ₁₄
1999 RK ₁₅	14.9	0.15	20000226	47.45008	324.95774	5.48233	6.74313	0.1699253	2.6486692	69	2	1998–1999	0.71	M-v	3	Williams	37292	1999 RK ₁₅
1999 RS ₁₅	15.8	0.15	20000226	32.73095	4.91878	5.52002	1.15134	0.1385419	2.1937415	80	3	1983–1999	0.51	M-v	3	Williams	38801	1999 RS ₁₅
1999 RU ₁₅	15.7	0.15	20000226	13.86416	226.07010	168.06023	2.26364	0.2130076	2.3564312	149	1	91 days	0.40	M-v	4	Williams	38071	1999 RU ₁₅
1999 RD ₁₆	13.7	0.15	20000226	308.83436	287.50929	169.15730	30.44949	0.2008439	2.7221234	48	1	80 days	0.45	M-v	4	Williams	36910	1999 RD ₁₆
1999 RE ₁₆	12.5	0.15	20000226	79.65444	324.08996	326.71710	5.29251	0.0606695	3.1702690	101	3	1950–2000	0.47	M-v	3	Williams	38556	1999 RE ₁₆
1999 RK ₁₆	15.2	0.15	20000226	9.19740	55.83369	347.44677	4.56730	0.3076482	2.5796433	74	1	91 days	0.58	M-v	4	Williams	38071	1999 RK ₁₆
1999 RT ₁₆	15.6	0.15	20000226	58.08184	157.81429	167.09007	5.46400	0.1990653	2.4513982	62	1	69 days	0.46	M-v	4	Williams	38071	1999 RT ₁₆
1999 RV ₁₆	15.3	0.15	20000226	26.10418	154.42330	220.33331	1.83557	0.1849705	2.4051664	73	2	1977–1999	0.50	M-v	3	Williams	37292	1999 RV ₁₆
1999 RW ₁₆	14.4	0.15	20000226	1.23206	178.98314	208.62640	4.74533	0.1776434	3.2041607	40	1	71 days	0.50	M-v	5	Williams	38071	1999 RW ₁₆
1999 RE ₁₇	15.4	0.15	20000226	10.82034	172.66985	224.61499	3.90521	0.1506889	2.3307748	59	2	1978–1999	0.66	M-v	4	Williams	37292	1999 RE ₁₇
1999 RJ ₁₇	16.2	0.15	20000226	61.27569	141.77698	180.15974	9.70339	0.2334905	2.3811354	48	2	1977–1999	0.53	M-v	4	Williams	36910	1999 RJ ₁₇
1999 RO ₁₇	14.4	0.15	20000226	259.33700	321.18666	180.34032	12.51866	0.1954907	2.5498998	46	7	1982–1999	0.65	M-v	1	Williams	36824	1999 RO ₁₇
1999 RV ₁₇	13.7	0.15	20000226	67.86421	325.89338	335.71675	7.57043	0.1061406	3.1777890	57	1	84 days	0.59	M-v	5	Williams	38071	1999 RV ₁₇
1999 RX ₁₇	15.6	0.15	20000226	346.93659	205.27336	224.29117	1.75281	0.1999300	2.3481556	58	2	1998–1999	0.53	M-v	4	Williams	36910	1999 RX ₁₇
1999 RY ₁₇	14.9	0.15	20000226	23.90240	63.80016	311.51820	2.36662	0.2317395	2.5657195	106	4	1991–1999	0.59	M-v	2	Williams	38071	1999 RY ₁₇
1999 RC ₁₈	15.8	0.15	20000226	12.86536	210.47677	184.49959	2.23446	0.2089187	2.4219139	37	1	66 days	0.45	M-v	5	Williams	36910	1999 RC ₁₈
1999 RD ₁₈	15.9	0.15	20000226	27.51142	202.18685	173.65328	6.15119	0.1442886	2.2796033	42	1	69 days	0.45	M-v	4	Williams	38071	1999 RD ₁₈
1999 RE ₁₈	14.5	0.15	20000226	102.30635	95.87003	171.16312	9.03390	0.1418843	2.7267613	60	3	1985–1999	0.65	M-v	2	Williams	36390	1999 RE ₁₈
1999 RH ₁₈	16.1	0.15	19990919	356.67119	329.63239	28.01992	3.19235	0.2379565	2.2813042	54	1	34 days	0.51			Williams		1999 RH ₁₈
1999 RN ₁₈	14.9	0.15	20000226	47.00995	154.66112	194.72373	6.21414	0.1573659	2.3407929	101	3	1992–1999	0.63	M-v	2	Williams	38071	1999 RN ₁₈
1999 RP ₁₈	15.2	0.15	20000226	63.80387	123.63235	182.14520	12.85030	0.2686751	2.6828762	73	1	107 days	0.52	M-v	4	Williams	38071	1999 RP ₁₈
1999 RR ₁₈	14.7	0.15	20000226	85.18626	115.52906	185.67341	4.91375	0.1685818	2.2331677	96	2	1989–1999	0.54	M-v	4	Williams	38071	1999 RR ₁₈
1999 RS ₁₈	16.0	0.15	19990919	3.99507	172.54547	174.59125	15.82327	0.2150591	2.4296673	48	1	33 days	0.49			Williams		1999 RS ₁₈
1999 RT ₁₈	14.0	0.15	20000226	23.15846	24.22161	339.15690	9.03355	0.2844685	3.1204728	92	1	144 days	0.53	M-v	3	Williams	37292	1999 RT ₁₈
1999 RU ₁₈	16.5	0.15	20000226	33.52336	129.05364	249.05265	1.11213	0.1897572	2.1534352	87	2	1977–1999	0.59	M-v	3	Williams	38071	1999 RU ₁₈
1999 RX ₁₈	16.3	0.15	20000226	87.66502	283.29979	7.28899	2.12511	0.2022468	2.3271843	36	2	1998–1999	0.54	M-v	4	Williams	36392	1999 RX ₁₈
1999 RY ₁₈	15.7	0.15	20000226	84.47815	333.53189	349.68212	19.47021	0.0846413	1.9223329	90	2	1991–1999	0.37	M-v	3	Williams	37292	1999 RY ₁₈
1999 RK ₁₉	14.6	0.15	19990919	320.76008	72.82742	328.93734	9.31198	0.1404306	3.0646979	41	1	33 days	0.54			Williams		1999 RK ₁₉
1999 RP ₁₉	16.2	0.15	20000226	60.09281	165.74281	162.32863	2.79555	0.1865979	2.3817325	37	1	85 days	0.52	M-v	4	Williams	38072	1999 RP ₁₉
1999 RS ₁₉	14.2	0.15	20000226	39.58648	174.36494	166.91185	10.14691	0.1299839	2.9859724	60	3	1997–1999	0.67	M-v	3	Williams	37292	1999 RS ₁₉
1999 RT ₁₉	12.5	0.15	20000226	302.37345	99.61193	350.40520	18.25200	0.1014327	3.1855883	92	1	123 days	0.55	M-v	4	Williams	38072	1999 RT ₁₉
1999 RY ₁₉	16.0	0.15	20000226	47.00190	51.56061	302.35631	3.33033	0.1655681	2.2809775	39	1	61 days	0.41	M-v	4	Williams	38072	1999 RY ₁₉
1999 RC ₂₀	13.9	0.15	20000226	327.68075	218.89399	211.24181	5.27809	0.1275431	3.1978740	46	1	94 days	0.50	M-v	5	Williams	38072	1999 RC ₂₀
1999 RD ₂₀	14.5	0.15	20000226	8.78224	60.57510	338.18602	10.79621	0.1969194	2.5858475	42	1	115 days	0.46	M-v	4	Williams	37292	1999 RD ₂₀

1999 RO ₂₀	15.5	0.15	20000226	69.26926	128.76055	195.99619	5.72064	0.1353345	2.3318604	60	2	1998–1999	0.48	M-v	3	Williams	38072	1999 RO ₂₀
1999 RP ₂₀	14.2	0.15	20000226	348.22569	65.27049	346.77560	16.71051	0.1640490	3.2004581	41	1	67 days	0.52	M-v	5	Williams	38801	1999 RP ₂₀
1999 RU ₂₀	15.9	0.15	20000226	47.69403	147.26723	203.12392	3.15000	0.1935099	2.3835454	90	1	116 days	0.45	M-v	3	Williams	38801	1999 RU ₂₀
1999 RW ₂₀	16.0	0.15	20000226	31.28316	357.98241	9.26182	8.12139	0.1976679	2.5801662	30	1	71 days	0.50	M-v	4	Williams	38801	1999 RW ₂₀
1999 RZ ₂₀	16.9	0.15	20000226	49.26093	1.97554	343.48136	6.63578	0.3143489	2.3692461	91	1	75 days	0.53	M-v	4	Williams	38801	1999 RZ ₂₀
1999 RA ₂₁	17.1	0.15	19990830	341.43622	22.30215	348.86225	18.43716	0.0848348	1.9567924	70	1	43 days	0.58			Williams		1999 RA ₂₁
1999 RC ₂₁	14.8	0.15	19990919	319.22643	225.55966	181.79569	17.74232	0.0975751	3.1233501	33	1	25 days	0.73			Williams		1999 RC ₂₁
1999 RH ₂₁	16.1	0.15	20000226	38.36289	347.66199	7.07680	7.95205	0.2043557	2.6259591	61	1	69 days	0.48	M-v	4	Williams	38072	1999 RH ₂₁
1999 RP ₂₁	15.9	0.15	20000226	354.34755	310.66146	111.43561	2.27401	0.1702160	2.3923656	35	1	69 days	0.58	M-v	5	Williams	38072	1999 RP ₂₁
1999 RR ₂₁	14.0	0.15	20000226	106.18723	153.67207	113.08406	2.56839	0.1052019	3.2476738	31	3	1993–1999	0.75	M-v	5	Williams	36393	1999 RR ₂₁
1999 RT ₂₁	16.0	0.15	20000226	49.78374	246.11175	99.67095	2.26930	0.2003790	2.4119076	38	1	71 days	0.54	M-v	4	Williams	38072	1999 RT ₂₁
1999 RU ₂₁	15.4	0.15	20000226	64.13865	314.63165	4.17992	11.93284	0.1959842	2.5856006	40	1	84 days	0.62	M-v	4	Williams	38072	1999 RU ₂₁
1999 RV ₂₁	15.9	0.15	20000226	36.55128	207.84665	153.33344	5.95115	0.3127611	2.5783376	37	1	78 days	0.50	M-v	4	Williams	38072	1999 RV ₂₁
1999 RW ₂₁	16.7	0.15	19990919	351.36098	237.47646	133.11513	3.33107	0.1773058	2.3627255	21	1	26 days	0.61			Williams		1999 RW ₂₁
1999 RY ₂₁	14.3	0.15	20000226	290.32758	108.93286	8.91828	10.55993	0.1099692	2.5781246	68	1	107 days	0.63	M-v	4	Williams	38801	1999 RY ₂₁
1999 RA ₂₂	16.4	0.15	20000226	23.44394	18.18971	14.72003	5.12748	0.2028580	2.2534877	54	1	83 days	0.65	M-v	4	Williams	38072	1999 RA ₂₂
1999 RB ₂₂	12.8	0.15	20000226	212.10697	167.29772	13.48696	8.75471	0.0609107	2.7719403	75	4	1974–1999	0.68	M-v	2	Williams	38072	1999 RB ₂₂
1999 RD ₂₂	13.2	0.15	20000226	124.20916	157.34474	102.45031	2.29224	0.0464568	3.0431364	65	5	1993–1999	0.59	M-v	1	Williams	37292	1999 RD ₂₂
1999 RF ₂₂	15.9	0.15	20000226	20.07717	15.31889	2.76630	3.05023	0.2728397	2.9751054	39	1	66 days	0.54	M-v	4	Williams	36911	1999 RF ₂₂
1999 RJ ₂₂	17.0	0.15	19990919	9.08428	198.87687	145.54976	0.84986	0.2088672	2.4044349	35	1	24 days	0.59			Williams		1999 RJ ₂₂
1999 RK ₂₂	14.0	0.15	20000226	300.17760	62.91833	46.44809	1.50368	0.1738783	3.0054089	39	3	1973–1999	0.68	M-v	4	Williams	36911	1999 RK ₂₂
1999 RL ₂₂	15.0	0.15	20000226	4.99001	46.71029	359.75523	8.06756	0.0852775	2.2835942	90	1	73 days	0.53	M-v	5	Williams	38801	1999 RL ₂₂
1999 RS ₂₂	15.7	0.15	20000226	56.49916	9.84843	329.32475	5.16866	0.2223378	2.3456721	58	1	96 days	0.49	M-v	4	Williams	38072	1999 RS ₂₂
1999 RT ₂₂	13.7	0.15	20000226	34.34482	154.08521	198.89085	8.82040	0.0914410	3.1713404	52	2	1997–1999	0.64	M-v	3	Williams	38072	1999 RT ₂₂
1999 RB ₂₃	13.4	0.15	20000226	8.58977	216.80868	175.14474	11.43462	0.1661983	2.9734736	70	3	1971–1999	0.67	M-v	3	Williams	37292	1999 RB ₂₃
1999 RC ₂₃	15.5	0.15	19990830	3.13801	180.95059	168.59219	5.58700	0.1118188	2.5905593	48	1	46 days	0.55			Williams		1999 RC ₂₃
1999 RG ₂₃	15.8	0.15	20000226	40.01414	342.93164	11.49552	5.04694	0.1220768	2.6788630	33	1	87 days	0.57	M-v	4	Williams	38072	1999 RG ₂₃
1999 RH ₂₃	13.6	0.15	20000226	18.81843	337.51653	38.37657	2.47262	0.0869065	2.8895424	61	1	123 days	0.56	M-v	4	Williams	38072	1999 RH ₂₃
1999 RN ₂₃	16.3	0.15	20000226	66.25129	220.19619	111.89520	1.81405	0.1700567	2.2253537	34	1	69 days	0.56	M-v	5	Williams	38072	1999 RN ₂₃
1999 RO ₂₃	14.6	0.15	20000226	336.75156	305.43614	131.32701	3.62099	0.1398895	2.5205779	43	4	1987–1999	0.66	M-v	3	Williams	38557	1999 RO ₂₃
1999 RP ₂₃	16.0	0.15	20000226	13.18651	25.71562	17.68681	5.56440	0.1957932	2.3438091	33	2	1992–1999	0.49	M-v	5	Williams	39308	1999 RP ₂₃
1999 RR ₂₃	14.8	0.15	20000226	330.78888	75.09074	15.88810	7.14430	0.1655328	2.3337233	61	1	107 days	0.47	M-v	4	Williams	38072	1999 RR ₂₃
1999 RT ₂₃	15.7	0.15	19990919	353.34833	319.93789	47.23600	3.46075	0.1063765	2.6502710	35	1	26 days	0.62			Williams		1999 RT ₂₃
1999 RW ₂₃	15.8	0.15	20000226	43.46487	339.39033	21.35102	6.00266	0.2335252	2.2958106	66	1	93 days	0.54	M-v	3	Williams	38072	1999 RW ₂₃
1999 RX ₂₃	15.7	0.15	20000226	89.17683	260.33978	33.88464	5.32291	0.2267375	2.2380172	60	1	122 days	0.64	M-v	4	Williams	37292	1999 RX ₂₃
1999 RY ₂₃	13.9	0.15	20000226	100.44727	123.31825	155.51455	10.58211	0.0960124	2.9804990	37	2	1998–1999	0.62	M-v	3	Williams	36394	1999 RY ₂₃
1999 RC ₂₄	16.4	0.15	19990919	3.62347	218.41592	134.67954	4.78776	0.1609940	2.1704643	24	1	30 days	0.62			Williams		1999 RC ₂₄
1999 RE ₂₄	15.8	0.15	20000226	354.21265	16.32875	47.20592	4.41498	0.1186704	2.2228756	40	1	107 days	0.60	M-v	5	Williams	37292	1999 RE ₂₄
1999 RK ₂₄	16.3	0.15	19990919	14.55855	340.09498	359.73570	11.25367	0.1691403	2.6021246	42	1	58 days	0.65			Williams		1999 RK ₂₄
1999 RP ₂₄	16.3	0.15	19990919	26.85690	215.44703	109.98733	0.40835	0.1344478	2.2727869	38	1	30 days	0.41			Williams		1999 RP ₂₄
1999 RR ₂₄	14.4	0.15	20000226	153.19764	283.01263	317.80324	6.49672	0.0794532	2.4448049	40	2	1991–1999	0.67	M-v	5	Williams	37292	1999 RR ₂₄
1999 RS ₂₄	15.5	0.15	20000226	72.51491	118.91601	193.35042	10.28784	0.2541528	2.3891394	58	1	115 days	0.48	M-v	4	Williams	38801	1999 RS ₂₄
1999 RZ ₂₄	14.9	0.15	20000226	19.62380	120.70960	266.77443	2.16500	0.2169948	2.6869626	65	1	91 days	0.47	M-v	4	Williams	38072	1999 RZ ₂₄
1999 RB ₂₅	17.8	0.15	19990919	7.05349	4.59436	342.28883	7.57417	0.3006346	2.2171492	41	1	43 days	0.44			Williams		1999 RB ₂₅
1999 RC ₂₅	15.0	0.15	20000226	41.07629	170.49133	184.69520	13.75237	0.1966088	2.6247813	53	1	132 days	0.51	M-v	3	Williams	38801	1999 RC ₂₅
1999 RE ₂₅	14.8	0.15	20000226	307.35269	195.65923	274.82217	1.81424	0.1237156	2.4119678	62	3	1977–1999	0.56	M-v	3	Williams	38072	1999 RE ₂₅
1999 RG ₂₅	15.4	0.15	19990919	330.75485	59.43926	346.35521	8.53345	0.2000976	2.7324482	40	1	58 days	0.62			Williams		1999 RG ₂₅
1999 RK ₂₅	15.0	0.15	20000226	32.37408	12.46065	348.83954	8.07895	0.3141700	2.8898025	64	2	1994–2000	0.65	M-v	2	Williams	38072	1999 RK ₂₅
1999 RL ₂₅	13.8	0.15	20000226	35.74326	13.92299	354.14039	16.34177	0.0970167	2.4760219	77	5	1978–2000	0.59	M-v	2	Williams	38072	1999 RL ₂₅
1999 RN ₂₅	15.6	0.15	20000226	73.02066	324.27642	8.04464	6.86497	0.1098523	2.1730801	80	2	1998–1999	0.57	M-v	4	Williams	38072	1999 RN ₂₅
1999 RU ₂₅	15.5	0.15	20000226	26.02692	41.97007	340.82788	3.58232	0.2450273	2.5851267	73	1	91 days	0.50	M-v	4	Williams	38072	1999 RU ₂₅
1999 RV ₂₅	13.8	0.15	20000226	3.81483	54.29849	345.33176	4.54179	0.1876235	3.1811638	63	1	91 days	0.41	M-v	4	Williams	38072	1999 RV ₂₅
1999 RX ₂₅	15.1	0.15	20000226	70.02910	319.09512	13.01238	4.59608	0.1820635	2.1574445	118	4	1980–2000	0.66	M-v	2	Williams	38072	1999 RX ₂₅

1999 RC ₂₆	16.5	0.15	19990919	7.74358	212.80065	138.07768	3.50876	0.2000373	2.5292876	33	1	30 days	0.53		Williams		1999 RC ₂₆
1999 RE ₂₆	13.3	0.15	20000226	173.76370	207.30599	6.86177	32.61554	0.2153503	2.5713991	57	1	90 days	0.46	M-v 4	Williams	37292	1999 RE ₂₆
1999 RG ₂₆	16.4	0.15	20000226	35.69559	353.81840	24.97347	4.41908	0.2724524	2.2993446	85	1	91 days	0.46	M-v 3	Williams	38072	1999 RG ₂₆
1999 RK ₂₆	13.5	0.15	20000226	341.65845	270.10614	153.58625	9.27484	0.1298111	3.0909304	32	1	63 days	0.41	M-v 5	Williams	38801	1999 RK ₂₆
1999 RN ₂₆	14.5	0.15	20000226	12.12848	11.11547	18.90375	10.99196	0.1420791	2.9439211	58	1	91 days	0.56	M-v 4	Williams	38072	1999 RN ₂₆
1999 RP ₂₆	14.6	0.15	20000226	8.00016	13.35541	20.83860	5.70759	0.1664377	3.1582105	42	1	91 days	0.55	M-v 4	Williams	37292	1999 RP ₂₆
1999 RQ ₂₆	13.5	0.15	20000226	163.99953	54.45940	171.49911	9.32781	0.0842391	3.0776686	46	3	1992–1999	0.65	M-v 4	Williams	36911	1999 RQ ₂₆
1999 RU ₂₆	14.7	0.15	19990830	349.42315	210.45008	159.12493	5.47673	0.1056479	3.2059617	31	1	46 days	0.63		Williams		1999 RU ₂₆
1999 RX ₂₆	16.3	0.15	20000226	108.41079	226.31701	55.32090	1.77394	0.1816056	2.2288212	33	2	1998–1999	0.63	M-v 5	Williams	36395	1999 RX ₂₆
1999 RF ₂₇	13.1	0.15	20000226	186.22715	70.02074	141.08203	8.02075	0.2538123	2.6126488	59	4	1951–1999	0.63	M-v 1	Williams	38072	1999 RF ₂₇
1999 RH ₂₇	16.8	0.15	20000226	14.47208	95.36581	343.90153	4.39666	0.5766006	2.8840371	621	1	210 days	0.49	M-v 3	Williams	39550	1999 RH ₂₇
1999 RL ₂₇	12.6	0.15	20000226	116.09956	262.32892	32.48425	13.37786	0.1712484	2.5993046	103	1	121 days	0.45	M-v 4	Williams	38072	1999 RL ₂₇
1999 RP ₂₇	15.4	0.15	20000226	65.40381	189.54227	141.54747	1.11831	0.1780481	2.1983926	72	1	107 days	0.64	M-v 4	Williams	38072	1999 RP ₂₇
1999 RQ ₂₇	13.5	0.15	20000226	73.98478	301.53566	358.86264	9.45872	0.0938309	3.2587289	84	1	84 days	0.53	M-v 4	Williams	36912	1999 RQ ₂₇
1999 RR ₂₇	14.8	0.15	20000226	9.26908	45.49925	350.76887	10.37051	0.3068534	3.0320769	92	1	92 days	0.59	M-v 4	Williams	38072	1999 RR ₂₇
1999 RT ₂₇	15.2	0.15	20000226	337.00495	278.27259	162.52497	2.87309	0.1644458	2.3707830	54	2	1981–1999	0.70	M-v 4	Williams	36912	1999 RT ₂₇
1999 RU ₂₇	13.4	0.15	20000226	317.75305	81.02748	356.75448	15.27598	0.1112052	3.2289674	77	5	1985–1999	0.64	M-v 1	Williams	38072	1999 RU ₂₇
1999 RW ₂₇	12.8	0.15	20000226	18.49940	41.75041	21.69754	14.06167	0.2855994	2.6066956	87	2	1978–2000	0.48	M-v 2	Williams	39550	1999 RW ₂₇
1999 RX ₂₇	14.4	0.15	20000226	47.27813	125.23923	200.46716	16.58505	0.2301098	3.0569876	98	1	68 days	0.52	M-v 4	Williams	38072	1999 RX ₂₇
1999 RD ₂₈	15.2	0.15	20000226	78.83572	131.10050	167.37983	2.77572	0.1991419	2.2198612	65	3	1976–1999	0.68	M-v 3	Williams	38072	1999 RD ₂₈
1999 RE ₂₈	16.1	0.15	20000226	25.16510	39.71935	348.11313	5.18157	0.3504429	2.5629030	116	1	106 days	0.52	M-v 3	Williams	38072	1999 RE ₂₈
1999 RS ₂₈	15.1	0.15	20000226	9.06996	193.60444	193.21116	17.46595	0.2203866	3.1316871	73	2	1977–1999	0.68	M-v 4	Williams	36912	1999 RS ₂₈
1999 RT ₂₈	15.7	0.15	20000226	26.47983	13.30161	8.18328	14.19852	0.1814157	2.5774160	67	1	68 days	0.51	M-v 4	Williams	38073	1999 RT ₂₈
1999 RU ₂₉	16.0	0.15	20000226	88.18720	135.56675	178.07244	22.66696	0.0783877	1.9194506	52	1	63 days	0.51	M-v 4	Williams		1999 RU ₂₉
1999 RW ₂₉	14.4	0.15	20000226	51.15624	2.48661	322.31491	16.06739	0.2987245	2.6751119	60	1	143 days	0.44	M-v 3	Williams	37293	1999 RW ₂₉
1999 RG ₃₀	14.2	0.15	20000226	69.23906	351.80184	329.31960	21.48771	0.0500722	2.5735873	32	1	89 days	0.55	M-v 4	Williams	38801	1999 RG ₃₀
1999 RL ₃₀	15.9	0.15	20000226	347.07590	98.79694	339.46900	19.76986	0.0959064	1.9150232	40	1	64 days	0.48	M-v 5	Williams	36912	1999 RL ₃₀
1999 RY ₃₀	15.7	0.15	19990919	72.57597	73.73397	188.73435	23.27898	0.2135436	2.2853606	22	1	29 days	0.44		Williams		1999 RY ₃₀
1999 RZ ₃₀	14.7	0.15	20000226	193.85273	254.28852	333.41661	17.93611	0.0593585	1.9238817	70	2	1998–1999	0.42	M-v 2	Williams	37293	1999 RZ ₃₀
1999 RA ₃₁	15.7	0.15	20000226	12.60014	73.67800	350.27761	23.12217	0.3074044	2.3036409	55	1	116 days	0.55	M-v 3	Williams	38073	1999 RA ₃₁
1999 RB ₃₁	15.4	0.15	20000226	96.56948	312.98072	349.86478	24.84329	0.1656579	2.2755843	37	2	1998–1999	0.55	M-v 3	Williams	39309	1999 RB ₃₁
1999 RJ ₃₁	14.5	0.15	20000226	112.46961	286.27565	342.60333	7.51093	0.0984386	2.3126944	101	4	1985–1999	0.60	M-v 2	Williams	38073	1999 RJ ₃₁
1999 RK ₃₁	15.9	0.15	20000226	35.76025	14.46336	1.40961	4.82109	0.1623111	2.3531412	72	1	91 days	0.55	M-v 4	Williams	38073	1999 RK ₃₁
1999 RM ₃₁	14.5	0.15	20000226	32.85517	2.31973	6.76920	14.59695	0.1012531	2.7093308	95	1	69 days	0.53	M-v 4	Williams	38073	1999 RM ₃₁
1999 RS ₃₁	14.4	0.15	20000226	345.76356	226.46364	186.71384	5.29489	0.0592230	2.7628148	58	3	1981–1999	0.63	M-v 3	Williams	38073	1999 RS ₃₁
1999 RT ₃₁	16.1	0.15	20000226	88.14127	27.80482	263.87866	0.30811	0.1838789	2.4455127	60	1	71 days	0.44	M-v 5	Williams	38801	1999 RT ₃₁
1999 RU ₃₁	15.2	0.15	20000226	102.01558	82.08886	220.71462	7.79797	0.0233783	2.4224057	75	1	67 days	0.56	M-v 4	Williams	38073	1999 RU ₃₁
1999 RV ₃₁	13.7	0.15	20000226	114.40222	254.09688	12.88536	2.43546	0.0244859	2.7903610	77	4	1981–1999	0.72	M-v 1	Williams	38073	1999 RV ₃₁
1999 RF ₃₂	14.5	0.15	20000226	351.64106	244.13686	167.67284	12.34489	0.1653775	2.5598831	83	1	93 days	0.50	M-v 4	Williams	38073	1999 RF ₃₂
1999 RH ₃₂	14.0	0.15	20000226	12.27939	211.47669	169.35552	9.66840	0.1683844	2.8071822	75	1	85 days	0.49	M-v 4	Williams	38073	1999 RH ₃₂
1999 RL ₃₂	14.4	0.15	20000226	25.52073	25.04504	341.74276	1.85730	0.1868227	3.0709854	52	2	1978–1999	0.61	M-v 4	Williams	37293	1999 RL ₃₂
1999 RM ₃₂	16.0	0.15	19990830	338.86058	23.68826	356.42751	6.89927	0.1218591	2.3573415	50	1	54 days	0.54		Williams		1999 RM ₃₂
1999 RP ₃₂	16.7	0.15	20000226	67.37102	332.81438	354.29525	2.22197	0.1985428	2.1998417	76	1	87 days	0.54	M-v 4	Williams	38801	1999 RP ₃₂
1999 RQ ₃₂	14.7	0.15	20000226	56.44963	345.03825	359.43786	5.00047	0.1349712	2.5854081	79	1	91 days	0.53	M-v 4	Williams	38073	1999 RQ ₃₂
1999 RW ₃₂	13.2	0.15	20000226	7.51289	101.67858	309.30447	8.56011	0.0962522	3.0596444	79	1	121 days	0.49	M-v 3	Williams	38073	1999 RW ₃₂
1999 RX ₃₂	13.4	0.15	20000226	308.12975	308.87569	124.60913	3.26022	0.0676861	2.9254801	42	1	69 days	0.54	M-v 5	Williams	37293	1999 RX ₃₂
1999 RA ₃₃	15.0	0.15	20000226	42.89893	337.83371	29.34852	1.17929	0.1334640	2.4187508	107	1	94 days	0.52	M-v 3	Williams	38073	1999 RA ₃₃
1999 RC ₃₃	13.7	0.15	20000226	147.02256	69.96804	153.54336	11.22487	0.1396183	2.6133413	76	2	1998–1999	0.59	M-v 3	Williams	37293	1999 RC ₃₃
1999 RG ₃₃	12.1	0.15	20000226	19.45291	273.97334	23.76381	35.03950	0.7741017	9.5132431	135	3	1996–1999	0.42	M-v 1	Williams	37817	1999 RG ₃₃
1999 RL ₃₃	14.6	0.15	20000226	323.97812	109.37888	329.45822	5.20797	0.1244962	2.2782509	83	5	1977–1999	0.73	M-v 2	Williams	38073	1999 RL ₃₃
1999 RP ₃₃	15.2	0.15	20000226	347.62843	51.89436	7.97272	7.06264	0.0967457	2.3917468	51	1	107 days	0.66	M-v 4	Williams	38073	1999 RP ₃₃
1999 RQ ₃₃	14.8	0.15	19990830	291.39384	283.51394	161.46871	8.03064	0.2211032	2.6909651	36	1	46 days	0.67		Williams		1999 RQ ₃₃
1999 RR ₃₃	15.1	0.15	20000226	323.12903	75.44775	18.02903	5.62872	0.1287948	2.4291359	47	3	1988–1999	0.69	M-v 2	Williams	37293	1999 RR ₃₃

1999 RW ₃₃	15.0	0.15	20000226	341.12820	262.70733	175.57067	11.33335	0.1638843	2.6463074	46	2	1988–1999	0.68	M-v	5	Williams	37293	1999 RW ₃₃
1999 RC ₃₄	14.8	0.15	20000226	47.21990	151.43929	196.93254	2.73608	0.0721331	2.5575814	68	1	94 days	0.47	M-v	4	Williams	38073	1999 RC ₃₄
1999 RF ₃₄	14.2	0.15	20000226	346.17026	272.49063	147.93007	0.53661	0.1904802	3.1385865	65	3	1994–1999	0.52	M-v	4	Williams	38073	1999 RF ₃₄
1999 RK ₃₄	15.0	0.15	20000226	47.85501	170.46821	185.25992	7.09034	0.1318394	2.4165592	90	3	1995–1999	0.60	M-v	2	Williams	37293	1999 RK ₃₄
1999 RL ₃₄	13.8	0.15	20000226	312.63427	284.89110	188.09495	11.87448	0.1737727	2.6287068	52	1	72 days	0.45	M-v	4	Williams	38073	1999 RL ₃₄
1999 RM ₃₄	15.2	0.15	20000226	51.68337	353.12006	6.51349	7.04116	0.1369330	2.2400223	79	2	1998–1999	0.65	M-v	3	Williams	37293	1999 RM ₃₄
1999 RO ₃₄	13.1	0.15	20000226	242.09224	337.82019	177.09171	9.63616	0.0319667	3.0646932	67	3	1986–1999	0.53	M-v	2	Williams	38073	1999 RO ₃₄
1999 RQ ₃₄	15.9	0.15	20000226	345.28062	270.06081	167.01189	4.96957	0.1219217	2.2800201	47	2	1998–1999	0.54	M-v	4	Williams	37293	1999 RQ ₃₄
1999 RR ₃₄	16.3	0.15	20000226	24.40653	214.32094	176.91750	3.78312	0.2508852	2.3244327	64	1	107 days	0.62	M-v	4	Williams	38073	1999 RR ₃₄
1999 RS ₃₄	14.3	0.15	20000226	245.64783	135.22930	33.72603	12.88839	0.0633997	2.8137612	47	1	86 days	0.51	M-v	4	Williams	37293	1999 RS ₃₄
1999 RT ₃₄	15.7	0.15	20000226	111.80507	199.05365	84.16856	3.43016	0.2072243	2.3292636	28	2	1998–1999	0.56	M-v	5	Williams	36401	1999 RT ₃₄
1999 RU ₃₄	14.3	0.15	20000226	13.27674	201.70021	193.05775	9.90944	0.1040065	3.0368468	63	1	121 days	0.55	M-v	4	Williams	38073	1999 RU ₃₄
1999 RV ₃₄	16.1	0.15	20000226	77.88888	307.77452	6.96968	4.12998	0.2361823	2.4023684	48	1	66 days	0.49	M-v	4	Williams	36913	1999 RV ₃₄
1999 RX ₃₄	14.8	0.15	20000226	103.45270	233.58210	82.32859	2.01539	0.1827278	2.1305267	111	2	1998–2000	0.56	M-v	4	Williams	38073	1999 RX ₃₄
1999 RZ ₃₄	13.5	0.15	20000226	73.69733	314.10695	34.99419	22.62113	0.1342784	2.4305376	88	1	118 days	0.46	M-v	3	Williams	38073	1999 RZ ₃₄
1999 RB ₃₅	14.0	0.15	20000226	332.18814	136.01553	291.23786	21.26532	0.0408550	2.6508680	116	1	165 days	0.69	M-v	4	Williams	38073	1999 RB ₃₅
1999 RJ ₃₅	14.6	0.15	20000226	97.05536	316.97417	320.61749	14.47735	0.2474213	2.5576716	50	3	1966–1999	0.68	M-v	2	Williams	36913	1999 RJ ₃₅
1999 RM ₃₅	13.5	0.15	20000226	105.43428	85.25624	192.33558	2.99227	0.1205173	3.0570874	73	1	93 days	0.56	M-v	4	Williams	38073	1999 RM ₃₅
1999 RP ₃₅	16.1	0.15	20000226	28.83744	15.62401	6.45803	5.95225	0.2729094	2.5397281	86	1	89 days	0.55	M-v	3	Williams	38073	1999 RP ₃₅
1999 RR ₃₅	13.9	0.15	20000226	177.57134	197.81738	21.93501	4.00535	0.0203384	2.7424535	62	1	94 days	0.54	M-v	4	Williams	38802	1999 RR ₃₅
1999 RT ₃₅	15.2	0.15	20000226	66.11212	325.54231	6.80381	8.21724	0.1390725	2.3690355	81	3	1994–2000	0.55	M-v	2	Williams	39550	1999 RT ₃₅
1999 RW ₃₅	14.9	0.15	20000226	55.60169	338.63347	8.68220	2.14428	0.0786955	2.8470997	70	1	65 days	0.56	M-v	4	Williams	38074	1999 RW ₃₅
1999 RC ₃₆	13.1	0.15	20000226	73.84438	327.41938	8.04473	10.64323	0.1065912	3.2105372	99	3	1988–2000	0.59	M-v	3	Williams	38802	1999 RC ₃₆
1999 RG ₃₆	13.5	0.15	20000226	352.85627	246.09194	205.22913	13.95056	0.1291115	2.6141045	87	3	1992–2000	0.59	M-v	2	Williams	38802	1999 RG ₃₆
1999 RH ₃₆	13.3	0.15	20000226	52.93246	322.33018	43.37569	11.83837	0.1533235	3.0333484	82	3	1976–1999	0.50	M-v	3	Williams	38074	1999 RH ₃₆
1999 RM ₃₆	13.6	0.15	20000226	47.10327	183.23668	166.70001	18.09383	0.2094369	2.5997588	32	2	1998–1999	0.65	M-v	4	Williams	37294	1999 RM ₃₆
1999 RN ₃₆	13.1	0.15	20000226	52.98996	152.74733	217.14171	12.85144	0.1883859	2.5716440	105	2	1998–2000	0.54	M-v	3	Williams	39550	1999 RN ₃₆
1999 RP ₃₆	18.6	0.15	20000226	39.91950	321.22225	58.12672	5.47874	0.4166649	2.2274532	146	1	87 days	0.46	M-v	4	Williams	38074	1999 RP ₃₆
1999 RQ ₃₆	20.9	0.15	20000226	81.03244	65.66594	2.17710	6.02567	0.2046258	1.1288755	206	2	1999–2000	0.58	M-v	3	Williams	38802	1999 RQ ₃₆
1999 RR ₃₆	13.9	0.15	20000226	343.47471	61.99887	0.86390	1.72279	0.0499621	2.9547339	62	1	87 days	0.54	M-v	4	Williams	38074	1999 RR ₃₆
1999 RS ₃₆	15.6	0.15	20000226	7.98933	221.77070	189.47400	4.92578	0.1411100	2.3396859	62	1	91 days	0.58	M-v	4	Williams	37294	1999 RS ₃₆
1999 RT ₃₆	15.1	0.15	20000226	357.66431	67.43683	0.40265	12.88698	0.2533402	2.6343623	60	1	91 days	0.61	M-v	4	Williams	38074	1999 RT ₃₆
1999 RZ ₃₆	13.4	0.15	20000226	66.76461	336.10138	324.92342	9.46665	0.0499262	3.0729483	38	1	66 days	0.64	M-v	5	Williams	36556	1999 RZ ₃₆
1999 RA ₃₇	16.5	0.15	20000226	44.68881	1.38210	346.77156	1.82061	0.1839181	2.4296737	55	2	1996–1999	0.50	M-v	4	Williams	37294	1999 RA ₃₇
1999 RB ₃₇	13.9	0.15	20000226	22.17669	18.72208	346.79031	5.72535	0.0772787	2.7796997	68	2	1990–1999	0.49	M-v	4	Williams	37294	1999 RB ₃₇
1999 RC ₃₇	15.6	0.15	20000226	63.59688	310.15780	3.60180	4.28921	0.2450519	2.5514520	77	3	1995–1999	0.56	M-v	2	Williams	38074	1999 RC ₃₇
1999 RE ₃₇	15.9	0.15	20000226	26.39894	310.93828	78.61106	2.08026	0.1927511	2.1988315	49	2	1996–1999	0.57	M-v	4	Williams	38074	1999 RE ₃₇
1999 RK ₃₇	13.6	0.15	20000226	14.79580	45.13228	329.33766	25.49736	0.0754426	1.9224894	39	5	1954–1999	0.52	M-v	2	Williams	38074	1999 RK ₃₇
1999 RT ₃₇	15.2	0.15	20000226	71.25806	319.33473	4.76079	6.75489	0.1270193	2.4164458	67	2	1998–1999	0.58	M-v	3	Williams	37294	1999 RT ₃₇
1999 RV ₃₇	15.4	0.15	20000226	81.47439	124.92552	189.55180	4.36348	0.1216985	2.4639989	54	2	1998–1999	0.74	M-v	4	Williams	37294	1999 RV ₃₇
1999 RW ₃₇	14.6	0.15	20000226	4.39781	223.65392	189.07859	12.56621	0.1590229	2.6873749	77	1	126 days	0.50	M-v	4	Williams	38802	1999 RW ₃₇
1999 RX ₃₇	13.9	0.15	20000226	314.29591	265.96603	187.30655	9.40917	0.0584080	3.0598713	46	1	63 days	0.54	M-v	5	Williams	38074	1999 RX ₃₇
1999 RY ₃₇	15.3	0.15	20000226	17.49361	36.34642	9.98130	4.80600	0.1430220	2.2445199	62	2	1994–1999	0.63	M-v	4	Williams	37294	1999 RY ₃₇
1999 RZ ₃₇	15.5	0.15	20000226	354.49626	249.76646	184.00393	5.45094	0.2140964	2.5584781	64	2	1997–1999	0.47	M-v	4	Williams	38074	1999 RZ ₃₇
1999 RA ₃₈	14.6	0.15	20000226	354.81735	30.67016	38.87573	3.10938	0.1441416	2.4076637	74	1	117 days	0.42	M-v	4	Williams	38074	1999 RA ₃₈
1999 RC ₃₈	12.4	0.15	20000226	302.60283	289.08193	190.31545	13.39820	0.1198388	2.6293183	82	3	1965–2000	0.60	M-v	2	Williams	38802	1999 RC ₃₈
1999 RD ₃₈	14.4	0.15	20000226	8.95673	217.72210	185.95120	14.24535	0.0956945	2.6418703	50	1	63 days	0.59	M-v	5	Williams	38074	1999 RD ₃₈
1999 RF ₃₈	14.9	0.15	20000226	12.68317	33.16584	9.10943	16.21487	0.3101513	3.0487236	56	1	61 days	0.52	M-v	4	Williams	38802	1999 RF ₃₈
1999 RG ₃₈	15.0	0.15	20000226	59.25154	311.42955	16.77416	4.64211	0.1995353	2.9786458	54	1	84 days	0.59	M-v	4	Williams	38074	1999 RG ₃₈
1999 RH ₃₈	15.2	0.15	20000226	39.20486	354.99732	19.12886	5.92133	0.1533465	2.3444552	65	1	85 days	0.45	M-v	3	Williams	38074	1999 RH ₃₈
1999 RM ₃₈	13.1	0.15	20000226	87.30073	110.85093	195.77428	9.13998	0.0601857	3.1770221	91	3	1994–2000	0.56	M-v	2	Williams	38074	1999 RM ₃₈
1999 RN ₃₈	14.4	0.15	20000226	61.61461	222.68797	123.02415	1.52675	0.1365829	2.3058258	112	2	1998–2000	0.61	M-v	3	Williams	38802	1999 RN ₃₈
1999 RO ₃₈	15.1	0.15	20000226	13.35599	232.29914	186.07601	5.97060	0.2272143	2.2717441	93	4	1975–2000	0.59	M-v	2	Williams	38074	1999 RO ₃₈

1999 RP ₃₈	15.4	0.15	20000226	48.60876	118.55419	239.30463	4.66761	0.1608812	2.3336469	98	3	1994–1999	0.47	M-v	2	Williams	37294	1999 RP ₃₈
1999 RT ₃₈	14.8	0.15	20000226	43.01140	342.18208	54.50192	4.03030	0.1594874	2.2086997	111	4	1994–2000	0.53	M-v	2	Williams	38802	1999 RT ₃₈
1999 RX ₃₈	14.9	0.15	20000226	65.82362	275.49979	44.80836	7.09586	0.1274220	2.3235513	37	1	81 days	0.47	M-v	4	Williams	37294	1999 RX ₃₈
1999 RG ₃₉	15.5	0.15	20000226	18.79753	78.01305	323.42670	11.97850	0.2757194	2.6564426	61	1	99 days	0.58	M-v	4	Williams	38074	1999 RG ₃₉
1999 RL ₃₉	15.9	0.15	20000226	74.52372	251.79349	88.18436	7.63476	0.2429560	2.1822388	54	1	88 days	0.59	M-v	4	Williams	38074	1999 RL ₃₉
1999 RN ₃₉	13.1	0.15	20000226	336.23452	311.75416	144.13243	10.84817	0.0893034	3.0348371	71	2	1997–2000	0.48	M-v	3	Williams	38802	1999 RN ₃₉
1999 RP ₃₉	13.6	0.15	20000226	25.88751	329.71693	32.10046	8.10667	0.2012664	3.1802328	98	4	1982–1999	0.64	M-v	2	Williams	38074	1999 RP ₃₉
1999 RT ₃₉	13.7	0.15	20000226	84.62699	35.77962	242.69000	9.31753	0.0603454	3.0049248	46	2	1998–1999	0.49	M-v	3	Williams	36407	1999 RT ₃₉
1999 RW ₃₉	15.8	0.15	20000226	43.56843	12.01059	347.65142	4.46579	0.2819109	2.7216034	67	1	116 days	0.57	M-v	4	Williams	38802	1999 RW ₃₉
1999 RY ₃₉	14.4	0.15	20000226	65.25715	128.38760	208.22725	8.37643	0.1648311	2.7674677	66	1	115 days	0.46	M-v	4	Williams	38802	1999 RY ₃₉
1999 RB ₄₀	14.9	0.15	20000226	109.69774	269.21374	16.57788	14.48204	0.2126217	2.5541703	60	2	1998–1999	0.70	M-v	4	Williams	38802	1999 RB ₄₀
1999 RC ₄₀	14.1	0.15	20000226	2.68029	39.44166	17.54196	16.88580	0.1349634	3.2107634	58	1	82 days	0.53	M-v	4	Williams	38074	1999 RC ₄₀
1999 RK ₄₀	14.4	0.15	20000226	177.31279	49.39222	167.02690	11.65555	0.0255347	2.4350270	72	5	1956–1999	0.66	M-v	2	Williams	38802	1999 RK ₄₀
1999 RV ₄₀	14.2	0.15	20000226	181.98963	208.98591	357.31279	23.80972	0.2016501	2.3762954	67	1	76 days	0.55	M-v	5	Williams	38802	1999 RV ₄₀
1999 RV ₄₁	14.2	0.15	20000226	24.92736	330.55499	45.79044	1.98304	0.1890814	3.0786332	80	1	93 days	0.52	M-v	3	Williams	38074	1999 RV ₄₁
1999 RX ₄₁	13.8	0.15	20000226	142.54678	262.10124	349.18793	13.87682	0.0814807	2.6073945	64	1	122 days	0.57	M-v	4	Williams	38074	1999 RX ₄₁
1999 RZ ₄₁	12.5	0.15	20000226	73.74933	108.65387	204.19270	8.48289	0.0686144	3.1945252	105	3	1982–1999	0.52	M-v	2	Williams	38074	1999 RZ ₄₁
1999 RC ₄₂	13.9	0.15	20000226	39.53400	33.26640	332.94607	4.83600	0.0842821	2.4313852	91	3	1995–2000	0.56	M-v	2	Williams	38074	1999 RC ₄₂
1999 RF ₄₂	15.6	0.15	20000226	32.15667	57.44688	334.86611	3.72048	0.1463360	2.6825214	52	1	76 days	0.45	M-v	4	Williams	38074	1999 RF ₄₂
1999 RJ ₄₂	12.8	0.15	20000226	34.93824	145.29176	241.38882	8.35874	0.1659974	2.7787687	115	3	1962–2000	0.53	M-v	2	Williams	38074	1999 RJ ₄₂
1999 RK ₄₂	14.7	0.15	20000226	9.29782	234.89907	208.29869	22.46465	0.1987626	2.3251245	66	1	119 days	0.49	M-v	3	Williams	38802	1999 RK ₄₂
1999 RL ₄₂	14.0	0.15	20000226	63.94365	308.89369	41.67602	4.55036	0.2122983	2.8035404	82	1	143 days	0.54	M-v	4	Williams	38802	1999 RL ₄₂
1999 RM ₄₂	14.3	0.15	20000226	312.93560	74.02886	46.68169	14.54410	0.1412932	2.5666041	55	2	1997–1999	0.63	M-v	4	Williams	37295	1999 RM ₄₂
1999 RN ₄₂	13.4	0.15	20000226	90.87692	245.06213	63.61479	10.69553	0.1066150	3.0246217	36	1	115 days	0.69	M-v	4	Williams	38074	1999 RN ₄₂
1999 RO ₄₂	15.6	0.15	20000226	92.06647	197.32279	113.91618	5.48728	0.2279097	2.1347766	41	1	80 days	0.52	M-v	4	Williams	37295	1999 RO ₄₂
1999 RP ₄₂	15.4	0.15	20000226	14.06898	10.80351	51.48264	9.39091	0.2351123	2.3474047	63	1	115 days	0.59	M-v	3	Williams	38074	1999 RP ₄₂
1999 RQ ₄₂	13.2	0.15	20000226	353.52903	265.91583	173.20122	12.78514	0.1587794	2.5884461	53	1	144 days	0.38	M-v	4	Williams	38802	1999 RQ ₄₂
1999 RR ₄₂	13.2	0.15	20000226	35.44325	211.71295	163.54955	10.05792	0.1093068	3.0623299	50	1	142 days	0.61	M-v	3	Williams	38075	1999 RR ₄₂
1999 RW ₄₂	12.3	0.15	20000226	339.86018	261.19037	136.75666	8.16503	0.2190031	3.9762535	41	1	94 days	0.53	M-v	5	Williams	38075	1999 RW ₄₂
1999 RX ₄₂	13.8	0.15	20000226	58.90842	148.20562	179.75993	12.98166	0.2616059	2.4450329	80	3	1980–2000	0.69	M-v	2	Williams	38075	1999 RX ₄₂
1999 RC ₄₃	14.2	0.15	20000226	91.02536	262.60451	6.45359	22.66038	0.2583747	2.2716052	37	1	60 days	0.41	M-v	4	Williams	38075	1999 RC ₄₃
1999 RD ₄₃	17.3	0.15	20000226	60.82051	264.04030	81.45021	8.15243	0.3539018	2.1746935	40	1	83 days	0.58	M-v	4	Williams	37295	1999 RD ₄₃
1999 RH ₄₃	15.5	0.15	20000226	73.15139	313.10847	358.26148	5.93295	0.1371381	2.3578516	59	3	1991–1999	0.69	M-v	3	Williams	36408	1999 RH ₄₃
1999 RL ₄₃	14.3	0.15	20000226	323.56937	204.09556	234.97690	8.34555	0.0613992	2.9816788	44	1	69 days	0.49	M-v	5	Williams	36914	1999 RL ₄₃
1999 RM ₄₃	14.3	0.15	20000226	173.88154	27.18807	198.10067	3.49547	0.2055509	2.5972085	54	2	1994–1999	0.63	M-v	4	Williams	37295	1999 RM ₄₃
1999 RQ ₄₃	15.7	0.15	20000226	76.09770	134.05263	184.78687	4.18868	0.3007665	2.1402963	90	2	1998–2000	0.54	M-v	4	Williams	38075	1999 RQ ₄₃
1999 RS ₄₃	15.2	0.15	20000226	67.87959	180.73593	182.15054	4.39465	0.1641757	2.1762236	82	2	1998–2000	0.64	M-v	4	Williams	38802	1999 RS ₄₃
1999 RT ₄₃	14.3	0.15	20000226	3.16532	300.29376	134.00734	2.46885	0.1681307	3.0982005	68	1	89 days	0.52	M-v	4	Williams	38802	1999 RT ₄₃
1999 RU ₄₃	12.9	0.15	20000226	104.05705	264.89228	40.26816	22.90073	0.2161448	2.5800440	107	2	1998–2000	0.49	M-v	3	Williams	38802	1999 RU ₄₃
1999 RV ₄₃	15.0	0.15	19991009	16.08732	194.52785	169.48380	9.66976	0.1400013	2.5656181	24	1	59 days	0.89			Williams		1999 RV ₄₃
1999 RW ₄₃	13.8	0.15	20000226	25.52237	216.11867	171.22338	10.10917	0.1084691	3.0591740	58	1	115 days	0.62	M-v	3	Williams	38075	1999 RW ₄₃
1999 RZ ₄₃	13.8	0.15	20000226	25.73903	296.53500	88.98517	6.25199	0.1458067	3.1740632	66	1	141 days	0.51	M-v	3	Williams	38075	1999 RZ ₄₃
1999 RA ₄₄	14.1	0.15	20000226	326.02137	75.28122	52.85860	7.20905	0.1139288	2.2746891	114	3	1992–2000	0.51	M-v	2	Williams	38802	1999 RA ₄₄
1999 RB ₄₄	13.9	0.15	20000226	24.10596	16.64503	39.38411	11.23639	0.1700047	2.5355816	84	3	1987–2000	0.44	M-v	2	Williams	38802	1999 RB ₄₄
1999 RC ₄₄	13.0	0.15	20000226	52.50120	327.85116	45.23323	11.89649	0.1687644	2.6234859	100	2	1986–2000	0.56	M-v	3	Williams	38802	1999 RC ₄₄
1999 RD ₄₄	14.1	0.15	20000226	183.93067	221.92647	358.50535	14.82825	0.0327726	2.5885600	71	1	116 days	0.57	M-v	4	Williams	38075	1999 RD ₄₄
1999 RE ₄₄	15.2	0.15	20000226	56.71095	31.25085	303.22238	2.45026	0.1816835	2.7807469	62	2	1997–1999	0.55	M-v	4	Williams	36914	1999 RE ₄₄
1999 RH ₄₄	15.2	0.15	20000226	40.42751	187.88759	141.33620	10.26647	0.2524818	3.0832981	37	1	89 days	0.61	M-v	4	Williams	36914	1999 RH ₄₄
1999 RI ₄₄	14.4	0.15	20000226	40.64223	324.83751	29.31213	7.20473	0.1457261	2.4337468	87	3	1982–1999	0.60	M-v	2	Williams	38075	1999 RI ₄₄
1999 RL ₄₄	15.5	0.15	20000226	31.29516	24.76390	347.98880	13.86993	0.3040580	2.5974645	42	1	106 days	0.63	M-v	3	Williams	37295	1999 RL ₄₄
1999 RM ₄₄	14.3	0.15	20000226	43.41903	150.27538	196.12705	17.86807	0.2316552	2.5957836	93	2	1998–1999	0.50	M-v	3	Williams	38075	1999 RM ₄₄
1999 RN ₄₄	15.5	0.15	20000226	65.12351	126.65667	194.02232	12.62712	0.2921151	2.3307883	61	1	140 days	0.47	M-v	3	Williams	38802	1999 RN ₄₄
1999 RR ₄₄	14.2	0.15	20000226	68.02542	138.68589	180.71651	8.13234	0.1459537	3.0986419	39	2	1977–1999	0.62	M-v	4	Williams	38802	1999 RR ₄₄

1999 RS ₄₄	14.8	0.15	20000226	36.94486	321.92949	57.11095	5.80280	0.2715267	2.5343515	87	3	1991–2000	0.44	M-v	3	Williams	38075	1999 RS ₄₄
1999 RT ₄₄	13.6	0.15	20000226	11.07966	48.58645	331.20017	13.08356	0.2165590	2.5829847	81	2	1997–2000	0.52	M-v	3	Williams	38075	1999 RT ₄₄
1999 RU ₄₄	14.6	0.15	20000226	43.45068	162.67193	173.08396	13.40522	0.1939835	2.5651055	57	1	83 days	0.48	M-v	4	Williams	37295	1999 RU ₄₄
1999 RY ₄₄	14.9	0.15	20000226	91.98904	333.57486	326.68666	6.36847	0.1257224	2.3434229	44	2	1998–1999	0.74	M-v	4	Williams	37295	1999 RY ₄₄
1999 RB ₄₅	15.5	0.15	20000226	28.80920	40.24246	347.67808	1.91757	0.2132469	2.3714144	74	1	93 days	0.44	M-v	4	Williams	38075	1999 RB ₄₅
1999 RQ ₄₅	15.4	0.15	20000226	43.94975	180.14755	177.06350	6.71181	0.1395808	2.3233750	60	1	115 days	0.54	M-v	3	Williams	38075	1999 RQ ₄₅
1999 RU ₄₅	14.8	0.15	20000226	349.82143	212.50653	200.54750	6.01668	0.0689850	2.7218618	60	1	91 days	0.49	M-v	4	Williams	37295	1999 RU ₄₅
1999 RW ₄₅	15.1	0.15	20000226	27.75139	288.13467	68.88424	1.44347	0.3109033	3.0743799	56	1	122 days	0.56	M-v	3	Williams	38075	1999 RW ₄₅
1999 RZ ₄₅	15.1	0.15	20000226	99.93458	69.03632	192.85018	4.79214	0.1486747	2.2826811	51	3	1996–1999	0.58	M-v	2	Williams	36411	1999 RZ ₄₅
1999 RE ₄₆	14.5	0.15	20000226	22.55499	9.04134	344.24577	6.92622	0.1533655	2.3253892	46	2	1998–1999	0.67	M-v	4	Williams	38075	1999 RE ₄₆
1999 RC ₄₇	14.2	0.15	20000226	62.59984	309.44611	338.26565	11.12895	0.1856254	2.6710595	73	3	1986–1999	0.63	M-v	2	Williams	38075	1999 RC ₄₇
1999 RD ₄₇	13.8	0.15	20000226	185.87144	41.74888	132.82268	22.43534	0.0231335	2.5838224	45	2	1998–1999	0.62	M-v	3	Williams	39309	1999 RD ₄₇
1999 RN ₄₇	14.2	0.15	20000226	8.51891	144.63602	233.46886	3.56420	0.2146079	2.4756534	49	2	1998–1999	0.56	M-v	3	Williams	38075	1999 RN ₄₇
1999 RN ₄₈	15.3	0.15	20000226	29.26683	36.02066	314.98707	3.84432	0.3189780	2.6230919	44	1	93 days	0.51	M-v	4	Williams	36915	1999 RN ₄₈
1999 RR ₄₈	15.1	0.15	20000226	50.93210	332.74163	334.88988	8.76467	0.2490860	2.5949211	25	1	93 days	0.50	M-v	3	Williams	36558	1999 RR ₄₈
1999 RC ₄₉	16.2	0.15	20000226	20.72034	38.78946	334.05874	3.14637	0.2500906	2.3430610	34	1	95 days	0.54	M-v	5	Williams	38802	1999 RC ₄₉
1999 RD ₄₉	13.0	0.15	20000226	311.79507	78.49177	331.87730	8.26485	0.0771380	3.0893116	34	1	119 days	0.61	M-v	5	Williams	38075	1999 RD ₄₉
1999 RG ₄₉	14.9	0.15	20000226	46.27714	213.03049	112.71023	3.32901	0.2164548	2.4411016	38	2	1998–1999	0.76	M-v	3	Williams	38557	1999 RG ₄₉
1999 RP ₄₉	14.5	0.15	20000226	8.03188	17.87044	353.58419	3.91673	0.3103820	3.0669210	34	3	1983–1999	0.44	M-v	1	Williams	36411	1999 RP ₄₉
1999 RS ₄₉	15.2	0.15	20000226	0.85701	68.27144	334.55830	12.90191	0.3034451	2.4401321	34	2	1997–1999	0.61	M-v	4	Williams	38557	1999 RS ₄₉
1999 RU ₄₉	15.5	0.15	20000226	41.54355	169.69844	165.69702	2.46768	0.2245437	2.4099612	58	3	1973–1999	0.90	M-v	3	Williams	38802	1999 RU ₄₉
1999 RW ₄₉	14.4	0.15	20000226	347.24827	199.78014	178.76683	2.38995	0.0716149	2.8660694	23	1	97 days	0.59	M-v	5	Williams	38802	1999 RW ₄₉
1999 RF ₅₀	14.1	0.15	20000226	73.29090	107.88021	173.44760	6.16194	0.1640764	2.6460309	63	2	1998–1999	0.68	M-v	3	Williams	39309	1999 RF ₅₀
1999 RJ ₅₀	16.1	0.15	20000226	49.52167	78.85430	247.82506	1.73758	0.2596166	2.3648611	42	1	87 days	0.68	M-v	4	Williams	36558	1999 RJ ₅₀
1999 RL ₅₀	13.8	0.15	20000226	325.22301	200.69195	202.57623	1.18528	0.0884265	2.9358432	36	4	1977–1999	0.70	M-v	2	Williams	38557	1999 RL ₅₀
1999 RN ₅₀	15.4	0.15	20000226	50.52581	344.43150	338.83109	10.00728	0.2466819	2.3801814	52	1	94 days	0.54	M-v	3	Williams	37295	1999 RN ₅₀
1999 RA ₅₁	14.1	0.15	20000226	295.42174	109.73290	336.79316	5.93062	0.0940989	2.4371538	31	1	94 days	0.44	M-v	4	Williams	36558	1999 RA ₅₁
1999 RO ₅₁	15.3	0.15	20000226	56.65885	109.46437	198.46380	3.98984	0.1917949	2.5753313	33	1	84 days	0.57	M-v	4	Williams	36558	1999 RO ₅₁
1999 RX ₅₂	13.8	0.15	20000226	18.64446	27.63664	335.04594	14.41878	0.2119870	2.6556625	60	1	146 days	0.60	M-v	3	Williams	37295	1999 RX ₅₂
1999 RH ₅₃	14.6	0.15	20000226	346.99421	227.72934	176.54017	6.58642	0.1409740	2.4333063	46	2	1998–1999	0.59	M-v	4	Williams	36412	1999 RH ₅₃
1999 RK ₅₃	14.6	0.15	20000226	342.75817	225.03056	183.42123	6.92189	0.1051083	2.3467124	43	2	1998–1999	0.59	M-v	4	Williams	36412	1999 RK ₅₃
1999 RM ₅₄	14.8	0.15	20000226	345.07418	70.20542	348.29622	7.73127	0.2238588	2.3828544	53	3	1990–1999	0.65	M-v	3	Williams	38558	1999 RM ₅₄
1999 RT ₅₄	15.6	0.15	20000226	86.07279	88.85310	188.96710	0.82433	0.1749022	2.3901633	34	3	1977–1999	0.64	M-v	2	Williams	36412	1999 RT ₅₄
1999 RG ₅₅	13.9	0.15	20000226	20.85985	168.08925	177.55361	1.03140	0.1687116	3.1548084	34	3	1995–1999	0.60	M-v	3	Williams	38802	1999 RG ₅₅
1999 RY ₅₅	13.3	0.15	20000226	315.48258	59.77552	355.86610	10.58003	0.0977775	3.1252578	41	2	1994–1999	0.50	M-v	4	Williams	36915	1999 RY ₅₅
1999 RR ₅₆	15.3	0.15	20000226	358.16071	122.30308	317.08885	9.49361	0.3092589	2.7899250	43	1	126 days	0.58	M-v	4	Williams	38075	1999 RR ₅₆
1999 RO ₅₇	16.3	0.15	19990919	353.23840	337.10637	17.05962	3.10656	0.2219617	2.1612489	28	1	31 days	0.57			Williams		1999 RO ₅₇
1999 RQ ₅₇	13.4	0.15	20000226	70.14785	310.56444	346.11250	14.94805	0.1130902	2.6030441	73	2	1998–1999	0.51	M-v	3	Williams	37295	1999 RQ ₅₇
1999 RW ₅₇	14.5	0.15	20000226	95.47846	210.32107	57.27955	2.93541	0.1872915	2.3839026	47	3	1996–1999	0.51	M-v	2	Williams	38558	1999 RW ₅₇
1999 RO ₆₃	13.6	0.15	20000226	336.17981	212.19543	202.08259	2.85150	0.0884439	2.5968647	111	3	1962–1999	0.72	M-v	3	Williams	37295	1999 RO ₆₃
1999 RV ₆₃	16.5	0.15	19990830	26.53566	314.21141	338.03645	7.60274	0.2680729	2.3581436	26	1	57 days	0.54			Williams		1999 RV ₆₃
1999 RF ₆₄	14.5	0.15	20000226	16.29111	3.86761	352.69156	9.64084	0.1035225	3.0645379	24	2	1981–1999	0.66	M-v	4	Williams	36414	1999 RF ₆₄
1999 RL ₆₄	14.2	0.15	20000226	336.35047	5.05645	48.76679	3.72865	0.0971890	2.5390436	43	4	1977–1999	0.62	M-v	1	Williams	38075	1999 RL ₆₄
1999 RA ₇₁	15.6	0.15	20000226	19.16239	54.55047	323.78140	0.75193	0.1783305	2.5314132	63	2	1995–1999	0.45	M-v	4	Williams	36915	1999 RA ₇₁
1999 RG ₇₁	13.1	0.15	20000226	286.63606	103.41671	353.53693	9.23258	0.0531540	2.9875974	66	2	1997–1999	0.53	M-v	3	Williams	37295	1999 RG ₇₁
1999 RJ ₇₁	15.0	0.15	20000226	357.97898	270.80288	122.90990	2.73745	0.1913751	3.0808671	34	2	1978–1999	0.48	M-v	5	Williams	36826	1999 RJ ₇₁
1999 RN ₇₁	14.6	0.15	20000226	291.38503	314.46044	152.72775	8.09059	0.0524104	2.2956482	67	2	1998–1999	0.62	M-v	4	Williams	36415	1999 RN ₇₁
1999 RR ₇₁	15.6	0.15	20000226	41.99094	343.79005	5.52371	4.70950	0.1836621	2.4152112	54	1	117 days	0.54	M-v	3	Williams	37295	1999 RR ₇₁
1999 RN ₇₂	11.6	0.15	20000226	38.00843	161.43699	157.91727	19.84630	0.0688360	5.2598971	55	2	1998–1999	0.59	M-v	3	Williams	36415	1999 RN ₇₂
1999 RO ₇₂	14.1	0.15	20000226	84.84623	174.54745	112.76289	3.14219	0.0799840	2.9264511	87	4	1977–1999	0.58	M-v	1	Williams	36915	1999 RO ₇₂
1999 RA ₇₃	15.5	0.15	20000226	276.64501	196.57824	290.89687	1.53222	0.0841549	2.2219787	80	3	1979–1999	0.65	M-v	3	Williams	36915	1999 RA ₇₃
1999 RM ₇₃	14.6	0.15	20000226	155.97849	315.16889	270.38031	4.19702	0.1707100	2.2418590	58	3	1996–1999	0.47	M-v	3	Williams	38559	1999 RM ₇₃
1999 RE ₇₄	13.4	0.15	20000226	129.01995	171.43412	65.91602	2.84327	0.0954407	3.1858929	25	2	1997–1999	0.62	M-v	4	Williams	36416	1999 RE ₇₄

1999 RV ₇₄	14.9	0.15	20000226	208.77799	78.30943	104.57767	4.43780	0.1150248	2.2517372	76	3	1991–1999	0.62	M-v	3	Williams	36915	1999 RV ₇₄
1999 RQ ₇₅	16.0	0.15	20000226	51.60336	52.07340	292.47173	3.15602	0.1647303	2.2837656	51	1	84 days	0.58	M-v	4	Williams	38075	1999 RQ ₇₅
1999 RV ₇₅	14.4	0.15	20000226	346.19336	231.53529	187.15130	15.00103	0.1399769	2.5945558	51	1	91 days	0.54	M-v	4	Williams	37295	1999 RV ₇₅
1999 RK ₇₆	15.4	0.15	20000226	147.92414	50.98345	176.77398	5.31605	0.1460559	2.5603683	31	2	1998–1999	0.58	M-v	4	Williams	36416	1999 RK ₇₆
1999 RL ₇₆	14.9	0.15	20000226	226.35639	356.21017	175.36308	5.44654	0.0956738	2.2801324	54	3	1991–1999	0.49	M-v	4	Williams	36416	1999 RL ₇₆
1999 RM ₇₆	15.9	0.15	20000226	37.90537	191.99723	171.34301	5.37583	0.2564622	2.3574469	61	1	85 days	0.53	M-v	4	Williams	38075	1999 RM ₇₆
1999 RA ₇₇	13.5	0.15	20000226	341.44811	309.19347	106.85320	4.83038	0.2673801	3.9414915	31	2	1995–1999	0.50	M-v	4	Williams	36417	1999 RA ₇₇
1999 RF ₈₀	15.9	0.15	20000226	14.72507	52.48974	324.55713	9.12454	0.0774935	2.7144052	28	2	1997–1999	0.63	M-v	5	Williams	39310	1999 RF ₈₀
1999 RE ₈₁	15.5	0.15	20000226	24.95999	222.45067	149.80300	5.92986	0.1674342	2.5822635	42	2	1997–1999	0.45	M-v	4	Williams	36417	1999 RE ₈₁
1999 RF ₈₁	15.2	0.15	20000226	106.67779	148.05379	127.31573	2.96905	0.1592061	2.2804722	65	3	1984–1999	0.66	M-v	2	Williams	37295	1999 RF ₈₁
1999 RN ₈₁	15.7	0.15	20000226	57.32430	344.03445	341.80170	3.47791	0.1886857	2.5623339	68	1	68 days	0.46	M-v	5	Williams	38075	1999 RN ₈₁
1999 RO ₈₁	13.1	0.15	20000226	224.45653	226.61490	293.05912	1.34854	0.0912459	3.1150891	57	3	1978–1999	0.64	M-v	4	Williams	36417	1999 RO ₈₁
1999 RS ₈₁	16.3	0.15	20000226	67.36677	350.21839	336.14709	7.03678	0.1835769	2.2059062	45	1	76 days	0.49	M-v	4	Williams	36915	1999 RS ₈₁
1999 RT ₈₁	15.2	0.15	20000226	10.05677	61.14504	337.71759	9.10700	0.2309387	2.5759453	58	1	105 days	0.52	M-v	4	Williams	37296	1999 RT ₈₁
1999 RU ₈₁	14.8	0.15	20000226	4.34160	213.64750	186.96741	7.96950	0.2280723	2.7875862	45	2	1997–1999	0.46	M-v	3	Williams	37296	1999 RU ₈₁
1999 RV ₈₁	13.7	0.15	20000226	12.04809	154.88404	220.46562	3.80473	0.1541148	3.2082761	74	1	107 days	0.57	M-v	4	Williams	38075	1999 RV ₈₁
1999 RX ₈₁	15.9	0.15	20000226	20.43428	152.16229	227.29983	3.03611	0.2470612	2.7240196	49	1	70 days	0.50	M-v	4	Williams	38802	1999 RX ₈₁
1999 RE ₈₂	14.0	0.15	20000226	7.39860	186.82085	187.98191	17.18786	0.0236388	3.1966563	34	1	69 days	0.59	M-v	5	Williams	38075	1999 RE ₈₂
1999 RF ₈₂	15.5	0.15	19990830	341.97739	83.05879	291.94272	4.31649	0.1732905	3.1340957	21	1	27 days	0.58			Williams		1999 RF ₈₂
1999 RJ ₈₂	17.6	0.15	20000226	48.84542	115.87070	240.71130	2.61320	0.1550959	2.1497083	21	1	71 days	0.58	M-v	4	Williams	38802	1999 RJ ₈₂
1999 RP ₈₂	14.4	0.15	20000226	46.44421	151.28228	182.11686	19.01611	0.1237407	3.0470987	30	1	69 days	0.63	M-v	4	Williams	38075	1999 RP ₈₂
1999 RR ₈₂	15.9	0.15	20000226	98.77143	59.00537	207.02134	6.32561	0.2557109	2.5707991	28	2	1995–1999	0.46	M-v	4	Williams	38559	1999 RR ₈₂
1999 RA ₈₃	15.4	0.15	20000226	67.84323	350.94251	325.84579	1.68011	0.1951074	2.4105596	75	2	1998–1999	0.64	M-v	3	Williams	38802	1999 RA ₈₃
1999 RH ₈₃	15.4	0.15	20000226	0.98763	246.62438	162.55229	13.07736	0.2007220	2.5493381	38	1	66 days	0.47	M-v	5	Williams	36915	1999 RH ₈₃
1999 RJ ₈₃	15.6	0.15	20000226	55.27909	300.65051	33.82433	2.67339	0.2240820	2.3765098	48	1	144 days	0.52	M-v	4	Williams	38076	1999 RJ ₈₃
1999 RT ₈₃	15.5	0.15	20000226	252.20332	25.52927	128.16038	6.03804	0.0835479	2.2091088	41	2	1998–1999	0.59	M-v	4	Williams	36418	1999 RT ₈₃
1999 RB ₈₄	13.5	0.15	20000226	189.95304	194.30977	359.36239	10.52341	0.0717150	2.9499296	65	1	117 days	0.66	M-v	4	Williams	37296	1999 RB ₈₄
1999 RC ₈₄	15.2	0.15	20000226	25.31731	237.72663	135.19414	1.75647	0.1416128	2.5635908	51	2	1995–1999	0.62	M-v	4	Williams	37296	1999 RC ₈₄
1999 RJ ₈₄	15.2	0.15	20000226	13.54549	167.41785	219.70497	2.97921	0.1362130	2.6274314	47	2	1998–1999	0.44	M-v	3	Williams	38559	1999 RJ ₈₄
1999 RP ₈₄	14.2	0.15	20000226	223.65915	264.71899	272.71727	3.58217	0.1694137	2.3786182	65	3	1991–1999	0.54	M-v	4	Williams	38076	1999 RP ₈₄
1999 RS ₈₄	15.4	0.15	20000226	94.30891	90.45017	199.35201	5.25053	0.1836904	2.2989689	48	1	114 days	0.38	M-v	4	Williams	38802	1999 RS ₈₄
1999 RC ₈₅	16.7	0.15	20000226	18.14479	182.97466	199.35262	1.22464	0.2327976	2.7797915	32	1	67 days	0.49	M-v	5	Williams	38803	1999 RC ₈₅
1999 RD ₈₅	14.8	0.15	20000226	298.03146	143.53770	309.58504	0.32447	0.0339969	2.9841017	31	3	1992–1999	0.67	M-v	4	Williams	38803	1999 RD ₈₅
1999 RM ₈₅	13.9	0.15	20000226	13.72200	317.04008	60.58501	2.66842	0.0735013	2.8603295	45	2	1992–1999	0.52	M-v	4	Williams	37296	1999 RM ₈₅
1999 RV ₈₅	15.8	0.15	20000226	50.22094	341.66108	9.01614	6.87888	0.2001798	2.2422370	50	1	70 days	0.53	M-v	4	Williams	38803	1999 RV ₈₅
1999 RA ₈₆	14.7	0.15	20000226	35.30770	251.86765	104.85242	3.23654	0.0974621	2.6882664	55	4	1993–1999	0.59	M-v	3	Williams	37296	1999 RA ₈₆
1999 RL ₈₆	16.5	0.15	20000226	36.48139	256.13169	106.81103	3.67469	0.2170492	2.4790348	31	2	1991–1999	0.73	M-v	4	Williams	36827	1999 RL ₈₆
1999 RN ₈₆	14.8	0.15	20000226	159.79479	86.13327	138.24869	5.77150	0.1657610	2.3688065	39	2	1998–1999	0.60	M-v	4	Williams	39310	1999 RN ₈₆
1999 RS ₈₆	15.2	0.15	20000226	48.81268	325.75295	11.67855	6.37803	0.2806464	2.5652817	66	1	144 days	0.44	M-v	3	Williams	38076	1999 RS ₈₆
1999 RT ₈₆	14.2	0.15	20000226	28.75379	247.42247	114.38031	3.34161	0.1060213	2.8626380	58	3	1992–1999	0.75	M-v	3	Williams	37296	1999 RT ₈₆
1999 RU ₈₆	15.4	0.15	20000226	87.11752	257.48759	41.14873	3.98794	0.1284355	2.4552409	44	3	1994–1999	0.74	M-v	3	Williams	36420	1999 RU ₈₆
1999 RV ₈₆	14.2	0.15	20000226	56.56731	307.79037	24.31569	5.61097	0.0637595	2.7507888	44	1	107 days	0.55	M-v	4	Williams	38803	1999 RV ₈₆
1999 RW ₈₆	13.4	0.15	20000226	32.43559	328.48745	22.52074	6.40742	0.1653328	3.1869798	64	2	1997–1999	0.66	M-v	3	Williams	38076	1999 RW ₈₆
1999 RA ₈₇	13.6	0.15	20000226	13.70623	344.86825	34.56445	2.24296	0.0888738	2.8565887	47	2	1992–1999	0.58	M-v	4	Williams	38076	1999 RA ₈₇
1999 RD ₈₇	14.4	0.15	20000226	36.95960	329.96874	21.92212	2.27788	0.0646563	2.8858369	38	2	1992–1999	0.60	M-v	3	Williams	37296	1999 RD ₈₇
1999 RF ₈₇	15.6	0.15	20000226	22.06800	29.88914	352.84345	12.66515	0.2267784	2.5781687	59	1	83 days	0.51	M-v	4	Williams	36916	1999 RF ₈₇
1999 RJ ₈₇	14.3	0.15	20000226	317.20933	264.29828	181.84066	9.22909	0.1422237	3.0926068	32	2	1980–1999	0.55	M-v	4	Williams	36916	1999 RJ ₈₇
1999 RL ₈₇	16.6	0.15	20000226	65.93480	47.05426	275.31992	0.46850	0.1976834	2.4123756	31	1	71 days	0.50	M-v	5	Williams	38803	1999 RL ₈₇
1999 RM ₈₇	13.8	0.15	20000226	306.57062	219.73587	236.49422	0.25791	0.1433721	3.1882317	44	1	71 days	0.62	M-v	5	Williams	36916	1999 RM ₈₇
1999 RR ₈₇	15.3	0.15	20000226	154.91302	82.16611	150.25703	3.00968	0.1728293	2.2354854	29	2	1998–1999	0.54	M-v	4	Williams	39311	1999 RR ₈₇
1999 RS ₈₇	16.7	0.15	20000226	5.27452	43.44886	11.74144	3.50623	0.1961611	2.2774017	21	1	63 days	0.44	M-v	5	Williams	38076	1999 RS ₈₇
1999 RT ₈₇	15.4	0.15	19990830	324.45519	242.54265	156.56773	5.36368	0.1530169	2.5592632	36	1	46 days	0.65			Williams		1999 RT ₈₇
1999 RX ₈₇	14.9	0.15	19990919	318.61619	36.35327	9.33720	4.36447	0.0706446	2.7772930	31	1	58 days	0.60			Williams		1999 RX ₈₇

1999 RY ₈₇	16.1	0.15	20000226	98.44884	285.68829	3.01363	5.79766	0.1647390	2.2677237	71	2	1998–1999	0.58	M-v	4	Williams	38076	1999 RY ₈₇
1999 RF ₈₈	14.4	0.15	20000226	115.59940	273.14745	353.33995	4.62002	0.1052783	2.7432404	58	3	1997–1999	0.56	M-v	3	Williams	38076	1999 RF ₈₈
1999 RG ₈₈	16.5	0.15	19990919	331.66151	213.27996	180.04408	3.52065	0.1008096	2.2957749	23	1	24 days	0.60			Williams		1999 RG ₈₈
1999 RP ₈₈	15.0	0.15	20000226	27.84716	92.12513	277.68272	1.64609	0.1012069	2.6510466	37	2	1997–1999	0.55	M-v	4	Williams	37296	1999 RP ₈₈
1999 RR ₈₈	13.3	0.15	20000226	326.21209	101.61112	336.33210	4.56689	0.1509689	3.1931101	54	1	91 days	0.47	M-v	5	Williams	38076	1999 RR ₈₈
1999 RT ₈₈	14.7	0.15	20000226	28.26652	181.63063	192.58291	7.29000	0.1894111	2.5842830	61	3	1991–1999	0.53	M-v	2	Williams	38559	1999 RT ₈₈
1999 RW ₈₈	15.7	0.15	20000226	2.97493	209.52489	207.07350	2.44244	0.1225036	2.1645797	58	1	91 days	0.45	M-v	4	Williams	38803	1999 RW ₈₈
1999 RX ₈₈	15.0	0.15	20000226	336.19319	161.49274	284.27250	1.48956	0.1737092	2.3791581	58	2	1997–1999	0.44	M-v	4	Williams	37296	1999 RX ₈₈
1999 RZ ₈₈	14.7	0.15	20000226	128.27515	288.43093	335.15032	3.44881	0.1274178	2.2400696	53	2	1998–1999	0.53	M-v	4	Williams	37296	1999 RZ ₈₈
1999 RB ₈₉	13.4	0.15	20000226	326.06834	259.55373	183.05042	13.58067	0.1426321	2.8873726	57	1	128 days	0.61	M-v	4	Williams	38076	1999 RB ₈₉
1999 RC ₈₉	14.8	0.15	20000226	173.31227	22.29966	194.99238	3.58622	0.1126940	2.5798418	39	3	1985–1999	0.60	M-v	4	Williams	37819	1999 RC ₈₉
1999 RE ₈₉	14.5	0.15	20000226	68.47440	113.55072	205.14024	2.41463	0.1038611	2.8016653	44	3	1997–1999	0.67	M-v	4	Williams	36916	1999 RE ₈₉
1999 RG ₈₉	15.7	0.15	20000226	104.50593	99.41018	180.91002	6.17896	0.1547160	2.4327675	33	2	1998–1999	0.56	M-v	4	Williams	38076	1999 RG ₈₉
1999 RJ ₈₉	14.0	0.15	20000226	305.71008	91.72610	1.21119	9.57398	0.0728467	3.0553608	39	1	107 days	0.49	M-v	5	Williams	37296	1999 RJ ₈₉
1999 RK ₈₉	14.8	0.15	20000226	30.30208	202.24737	170.80801	6.02150	0.1121722	2.4572078	35	1	86 days	0.55	M-v	4	Williams	37296	1999 RK ₈₉
1999 RP ₈₉	14.1	0.15	20000226	300.14632	322.25809	147.48868	3.43463	0.1403784	2.7598639	53	4	1983–1999	0.59	M-v	1	Williams	38803	1999 RP ₈₉
1999 RQ ₈₉	17.3	0.15	19990919	5.62048	334.96190	13.96705	4.10406	0.2712748	2.6183110	10	1	24 days	0.50			Williams		1999 RQ ₈₉
1999 RS ₈₉	14.4	0.15	20000226	30.54720	220.61504	154.46712	5.81289	0.2901520	2.5356210	86	3	1995–2000	0.54	M-v	2	Williams	38803	1999 RS ₈₉
1999 RY ₈₉	13.9	0.15	20000226	1.37557	310.57859	84.69388	3.33972	0.0874062	2.8450344	39	2	1992–1999	0.55	M-v	4	Williams	36916	1999 RY ₈₉
1999 RF ₉₀	14.2	0.15	19990830	297.44534	38.18055	26.06878	8.84307	0.0756878	2.9888278	17	1	42 days	0.77			Williams		1999 RF ₉₀
1999 RG ₉₀	14.8	0.15	20000226	0.70823	300.37396	120.60242	4.84491	0.2688996	2.5367944	49	5	1975–1999	0.62	M-v	3	Williams	38076	1999 RG ₉₀
1999 RQ ₉₀	14.7	0.15	20000226	89.53316	159.73403	138.83556	5.99048	0.1713594	2.3064520	41	2	1998–1999	0.63	M-v	4	Williams	37296	1999 RQ ₉₀
1999 RR ₉₀	15.0	0.15	20000226	60.64991	317.57532	19.99777	8.41233	0.1615813	2.2938251	79	3	1992–1999	0.52	M-v	2	Williams	38803	1999 RR ₉₀
1999 RU ₉₀	13.3	0.15	20000226	192.92750	186.57155	13.18058	14.58121	0.1219303	2.5687843	55	1	93 days	0.68	M-v	4	Williams	38076	1999 RU ₉₀
1999 RY ₉₀	16.6	0.15	20000226	44.62449	352.43270	11.40328	6.52690	0.2760209	2.2297027	62	1	86 days	0.50	M-v	4	Williams	39550	1999 RY ₉₀
1999 RE ₉₁	15.6	0.15	20000226	20.67340	281.69540	113.73114	2.99412	0.2193050	2.3585797	32	3	1981–1999	0.58	M-v	3	Williams	36422	1999 RE ₉₁
1999 RF ₉₁	14.4	0.15	20000226	2.70724	240.08886	157.15466	4.87904	0.0794308	2.7835228	38	2	1976–1999	0.62	M-v	4	Williams	37296	1999 RF ₉₁
1999 RN ₉₁	15.9	0.15	20000226	9.85250	264.13731	144.90444	2.65376	0.2050568	2.3819936	37	1	69 days	0.62	M-v	5	Williams	38076	1999 RN ₉₁
1999 RO ₉₁	15.0	0.15	20000226	6.07476	282.57453	130.61741	1.64926	0.2213133	2.4661692	57	2	1995–1999	0.63	M-v	4	Williams	38076	1999 RO ₉₁
1999 RP ₉₁	12.9	0.15	20000226	82.71295	234.90941	57.10852	1.46448	0.1412861	3.1990361	67	4	1976–1999	0.61	M-v	1	Williams	38076	1999 RP ₉₁
1999 RR ₉₁	16.8	0.15	19990830	343.30907	229.27946	150.94330	3.62669	0.2370755	2.6015293	22	1	41 days	0.76			Williams		1999 RR ₉₁
1999 RT ₉₁	16.3	0.15	20000226	20.39310	49.52675	351.25214	2.05933	0.2122152	2.2374408	55	1	95 days	0.49	M-v	4	Williams	38076	1999 RT ₉₁
1999 RV ₉₁	13.5	0.15	20000226	66.50337	324.40516	357.95670	9.11334	0.1117077	2.7321116	71	6	1972–1999	0.46	M-v	1	Williams	38076	1999 RV ₉₁
1999 RZ ₉₁	16.1	0.15	20000226	19.99632	98.84310	303.22495	0.73295	0.2794022	2.3632520	52	1	91 days	0.48	M-v	4	Williams	38076	1999 RZ ₉₁
1999 RB ₉₂	16.5	0.15	19990919	332.15170	39.48703	353.07047	4.31326	0.0653059	2.1519813	28	1	29 days	0.55			Williams		1999 RB ₉₂
1999 RC ₉₂	15.0	0.15	20000226	28.23296	26.97611	353.05354	6.21413	0.2629093	2.5368692	69	1	145 days	0.44	M-v	3	Williams	37296	1999 RC ₉₂
1999 RF ₉₂	14.1	0.15	20000226	359.41803	225.38889	183.02128	12.33886	0.1976072	3.0322131	71	2	1997–1999	0.53	M-v	3	Williams	37296	1999 RF ₉₂
1999 RH ₉₂	13.6	0.15	20000226	49.20857	9.20951	334.89392	1.39012	0.0266547	2.9545428	64	2	1997–1999	0.55	M-v	3	Williams	38076	1999 RH ₉₂
1999 RK ₉₂	14.2	0.15	20000226	274.70522	144.15801	357.17015	6.06924	0.0909118	2.2604677	80	4	1974–1999	0.56	M-v	3	Williams	38076	1999 RK ₉₂
1999 RL ₉₂	14.8	0.15	20000226	36.36454	170.22189	186.34838	1.77871	0.1187623	2.9470865	54	2	1997–1999	0.46	M-v	4	Williams	37296	1999 RL ₉₂
1999 RM ₉₂	13.0	0.15	20000226	182.51547	11.06821	193.67471	0.26382	0.1064716	3.2159039	57	3	1993–1999	0.67	M-v	4	Williams	38803	1999 RM ₉₂
1999 RO ₉₂	13.5	0.15	20000226	337.28832	270.93244	154.92063	3.93453	0.1083507	3.0608243	60	3	1996–1999	0.63	M-v	3	Williams	37296	1999 RO ₉₂
1999 RP ₉₂	15.0	0.15	20000226	358.29171	53.59949	8.46165	5.87719	0.1545886	2.3359561	83	1	94 days	0.56	M-v	4	Williams	38076	1999 RP ₉₂
1999 RQ ₉₂	15.9	0.15	20000226	64.67652	330.39880	1.73286	7.51004	0.2294537	2.2254483	78	1	123 days	0.46	M-v	3	Williams	38076	1999 RQ ₉₂
1999 RX ₉₂	15.0	0.15	20000226	18.01183	15.75052	14.42866	5.23524	0.1108548	2.4425912	32	1	91 days	0.42	M-v	4	Williams	37296	1999 RX ₉₂
1999 RB ₉₃	14.0	0.15	20000226	18.08004	323.83744	54.56456	2.92284	0.1953835	3.0659612	62	2	1978–1999	0.61	M-v	4	Williams	38076	1999 RB ₉₃
1999 RH ₉₃	15.8	0.15	20000226	44.15765	327.11274	23.48165	4.35948	0.2394707	2.5813343	62	2	1995–1999	0.55	M-v	3	Williams	36916	1999 RH ₉₃
1999 RJ ₉₃	14.2	0.15	20000226	306.20051	335.63787	116.78425	3.16149	0.0336798	2.8877741	33	2	1977–1999	0.67	M-v	5	Williams	38076	1999 RJ ₉₃
1999 RN ₉₃	13.9	0.15	20000226	346.61322	352.86144	59.44856	3.33171	0.0225527	2.6913695	56	3	1990–1999	0.58	M-v	2	Williams	38803	1999 RN ₉₃
1999 RQ ₉₃	16.3	0.15	20000226	42.40077	307.83179	53.15266	2.84972	0.2265790	2.3826291	52	2	1977–1999	0.73	M-v	3	Williams	37296	1999 RQ ₉₃
1999 RT ₉₃	14.3	0.15	20000226	61.41601	218.17499	85.13781	3.49665	0.3089948	2.9953866	60	2	1998–1999	0.71	M-v	4	Williams	38076	1999 RT ₉₃
1999 RV ₉₃	16.3	0.15	20000226	49.00998	342.32023	8.53472	12.61917	0.2045622	2.3593263	36	1	84 days	0.55	M-v	4	Williams	38076	1999 RV ₉₃
1999 RD ₉₄	13.3	0.15	20000226	109.24802	120.46609	151.31033	8.91548	0.1742240	2.5397428	51	3	1994–1999	0.63	M-v	2	Williams	37296	1999 RD ₉₄

1999 RF ₉₄	15.3	0.15	20000226	110.28372	159.94900	122.44421	4.58518	0.1563184	2.1933233	32	1	70 days	0.63	M-v	5	Williams	1999 RF ₉₄
1999 RK ₉₄	13.8	0.15	20000226	2.91858	25.22455	13.35916	15.59160	0.1312842	2.9771203	84	3	1971–1999	0.62	M-v	3	Williams	38076 1999 RK ₉₄
1999 RP ₉₄	15.0	0.15	19990919	7.16598	253.78461	98.48339	3.06999	0.1926107	3.1668275	29	1	57 days	0.62			Williams	1999 RP ₉₄
1999 RX ₉₄	15.0	0.15	20000226	130.46407	254.88877	1.57122	4.73909	0.1760341	2.3323509	64	2	1998–1999	0.60	M-v	4	Williams	38560 1999 RX ₉₄
1999 RY ₉₄	16.4	0.15	20000226	56.36073	356.48937	350.66492	1.19908	0.1760050	2.2640790	53	2	1992–1999	0.52	M-v	4	Williams	36916 1999 RY ₉₄
1999 RZ ₉₄	15.9	0.15	20000226	113.74377	100.19619	175.68901	4.38692	0.1572449	2.3294385	52	2	1998–1999	0.76	M-v	4	Williams	36425 1999 RZ ₉₄
1999 RE ₉₅	14.1	0.15	20000226	199.95551	6.72777	192.84006	11.42329	0.1719597	2.4719900	68	4	1991–1999	0.62	M-v	2	Williams	37296 1999 RE ₉₅
1999 RF ₉₅	15.9	0.15	20000226	0.11878	213.02314	208.85049	2.73405	0.1147103	2.1971689	52	1	91 days	0.62	M-v	4	Williams	38076 1999 RF ₉₅
1999 RG ₉₅	13.9	0.15	20000226	32.99722	11.06029	353.72159	8.90696	0.1682435	2.7991396	77	2	1992–2000	0.43	M-v	3	Williams	38076 1999 RG ₉₅
1999 RH ₉₅	17.2	0.15	20000226	56.31999	168.52801	173.99519	2.32902	0.2944829	2.2651594	54	1	71 days	0.55	M-v	5	Williams	38076 1999 RH ₉₅
1999 RM ₉₅	13.0	0.15	20000226	211.70588	167.33037	13.56384	18.34172	0.1141089	3.2236109	37	1	66 days	0.70	M-v	5	Williams	38803 1999 RM ₉₅
1999 RO ₉₅	15.5	0.15	19990919	21.02351	185.38999	145.24327	5.28893	0.2094556	2.8096702	23	1	35 days	0.52			Williams	1999 RO ₉₅
1999 RR ₉₅	15.6	0.15	20000226	43.03315	291.03536	69.94153	3.29206	0.2236384	2.3782287	53	1	93 days	0.71	M-v	4	Williams	38076 1999 RR ₉₅
1999 RS ₉₅	14.7	0.15	20000226	41.25362	224.57756	133.97883	5.33137	0.1841666	2.5327602	53	5	1982–1999	0.60	M-v	3	Williams	38560 1999 RS ₉₅
1999 RX ₉₅	14.5	0.15	20000226	34.21955	206.14631	162.86570	14.56056	0.1638173	2.5473780	36	1	101 days	0.42	M-v	4	Williams	37297 1999 RX ₉₅
1999 RY ₉₅	13.7	0.15	20000226	37.32353	248.10118	102.44165	4.87030	0.1441086	3.1845633	31	1	89 days	0.58	M-v	4	Williams	38076 1999 RY ₉₅
1999 RZ ₉₅	13.7	0.15	20000226	359.24739	3.61015	35.13977	9.36946	0.1067086	3.1695843	32	1	91 days	0.50	M-v	4	Williams	38076 1999 RZ ₉₅
1999 RD ₉₆	15.7	0.15	20000226	38.00466	356.90617	12.02413	14.39848	0.0851495	2.3686727	42	1	68 days	0.52	M-v	4	Williams	38076 1999 RD ₉₆
1999 RL ₉₆	14.9	0.15	20000226	325.15368	26.64487	74.99413	2.69354	0.1768684	2.4275349	59	4	1988–1999	0.72	M-v	2	Williams	38803 1999 RL ₉₆
1999 RM ₉₆	14.1	0.15	20000226	20.78061	274.54144	102.50891	2.27624	0.1889593	3.1399215	58	1	91 days	0.51	M-v	4	Williams	38077 1999 RM ₉₆
1999 RR ₉₆	15.8	0.15	20000226	90.51484	69.25987	211.02731	5.02286	0.2174160	2.5337812	23	1	68 days	0.43	M-v	5	Williams	38077 1999 RR ₉₆
1999 RV ₉₆	15.2	0.15	19990830	315.92930	269.70114	131.27492	3.09320	0.0868612	2.7226004	27	1	42 days	0.62			Williams	1999 RV ₉₆
1999 RR ₉₇	15.7	0.15	20000226	17.68994	194.20680	196.63778	0.57893	0.0875539	2.3844356	38	1	91 days	0.60	M-v	5	Williams	37297 1999 RR ₉₇
1999 RY ₉₇	15.3	0.15	20000226	23.99027	205.80584	169.25507	4.17650	0.1131753	2.8035488	22	1	61 days	0.63	M-v	5	Williams	36916 1999 RY ₉₇
1999 RH ₉₈	14.4	0.15	20000226	40.50299	259.94379	86.03346	2.59500	0.2007781	3.2020291	51	1	91 days	0.56	M-v	4	Williams	38077 1999 RH ₉₈
1999 RQ ₉₈	16.2	0.15	19990919	3.22403	189.34262	170.09278	9.03887	0.2819672	2.7894630	33	1	59 days	0.62			Williams	1999 RQ ₉₈
1999 RS ₉₈	14.9	0.15	20000226	107.20763	266.93975	20.52952	7.45303	0.1108984	2.5448224	71	3	1995–1999	0.74	M-v	2	Williams	38560 1999 RS ₉₈
1999 RW ₉₈	13.7	0.15	20000226	14.37858	212.66784	180.55771	24.81950	0.2140515	3.1567594	32	1	62 days	0.38	M-v	4	Williams	38077 1999 RW ₉₈
1999 RX ₉₈	14.7	0.15	20000226	26.64468	221.54184	169.51257	13.62517	0.2177138	2.4543322	37	1	124 days	0.46	M-v	3	Williams	38077 1999 RX ₉₈
1999 RZ ₉₈	12.5	0.15	20000226	67.11238	310.04115	21.14446	21.86842	0.0222875	3.2296606	104	4	1982–2000	0.53	M-v	1	Williams	38803 1999 RZ ₉₈
1999 RB ₉₉	13.6	0.15	20000226	35.89196	193.80667	168.50873	12.55272	0.1548302	3.1932951	35	1	61 days	0.63	M-v	4	Williams	38077 1999 RB ₉₉
1999 RQ ₁₀₁	14.8	0.15	20000226	16.64909	136.55618	238.50121	10.99814	0.2088779	2.6177991	30	1	79 days	0.55	M-v	4	Williams	36560 1999 RQ ₁₀₁
1999 RY ₁₀₁	15.0	0.15	20000226	66.26223	82.07326	228.68795	5.85576	0.1062004	2.3841072	34	2	1998–1999	0.58	M-v	4	Williams	39311 1999 RY ₁₀₁
1999 RF ₁₀₂	12.6	0.15	20000226	293.28390	159.02727	293.37992	14.25755	0.1048926	3.0218401	62	5	1984–1999	0.61	M-v	2	Williams	37183 1999 RF ₁₀₂
1999 RJ ₁₀₂	13.6	0.15	20000226	153.63055	1.38903	207.36117	12.82729	0.0813534	2.9654449	47	3	1990–1999	0.69	M-v	3	Williams	36427 1999 RJ ₁₀₂
1999 RM ₁₀₂	14.9	0.15	20000226	114.77342	17.12148	222.94266	7.85783	0.2480086	2.4379326	43	3	1996–1999	0.46	M-v	2	Williams	36427 1999 RM ₁₀₂
1999 RQ ₁₀₂	14.4	0.15	20000226	11.83124	66.06160	307.64370	12.54648	0.0822557	2.6632101	43	1	144 days	0.57	M-v	4	Williams	37297 1999 RQ ₁₀₂
1999 RR ₁₀₂	13.8	0.15	20000226	348.15542	113.87296	279.30532	8.42648	0.0846296	2.9893965	52	1	117 days	0.55	M-v	4	Williams	37297 1999 RR ₁₀₂
1999 RT ₁₀₂	14.4	0.15	20000226	97.25960	36.89992	242.12139	6.84543	0.1700199	2.2386295	68	1	144 days	0.50	M-v	4	Williams	37297 1999 RT ₁₀₂
1999 RY ₁₀₂	14.3	0.15	20000226	45.08654	142.48235	187.44832	12.94788	0.2019074	2.7306593	71	2	1998–1999	0.55	M-v	3	Williams	37297 1999 RY ₁₀₂
1999 RA ₁₀₃	12.6	0.15	20000226	22.28244	99.01677	251.59791	6.77453	0.1120867	3.2382863	69	3	1982–2000	0.57	M-v	2	Williams	38077 1999 RA ₁₀₃
1999 RB ₁₀₃	14.1	0.15	20000226	12.96616	157.49488	214.60411	15.95353	0.2347855	3.0445637	43	1	114 days	0.41	M-v	3	Williams	37297 1999 RB ₁₀₃
1999 RF ₁₀₃	15.8	0.15	20000226	38.92016	52.56651	295.97978	11.55759	0.2724565	2.5719334	43	1	123 days	0.59	M-v	3	Williams	36917 1999 RF ₁₀₃
1999 RH ₁₀₃	14.9	0.15	20000226	11.71274	179.71378	214.65708	12.22690	0.2197618	2.4315036	51	1	127 days	0.49	M-v	4	Williams	37297 1999 RH ₁₀₃
1999 RM ₁₀₃	15.2	0.15	19990919	340.14201	86.40503	287.54722	6.08163	0.1307045	2.3426339	37	1	53 days	0.48			Williams	1999 RM ₁₀₃
1999 RQ ₁₀₃	15.1	0.15	20000226	38.37155	57.64297	297.93516	6.02870	0.1345610	2.3199138	62	2	1998–1999	0.66	M-v	3	Williams	37297 1999 RQ ₁₀₃
1999 RS ₁₀₃	13.8	0.15	20000226	172.86164	25.83839	185.65749	14.55786	0.0210496	2.5550480	80	2	1998–1999	0.56	M-v	3	Williams	38560 1999 RS ₁₀₃
1999 RX ₁₀₃	15.8	0.15	19990919	333.92871	194.95917	187.45176	15.69996	0.1123670	2.5860872	15	1	24 days	0.55			Williams	1999 RX ₁₀₃
1999 RK ₁₀₄	12.8	0.15	20000226	60.43408	31.43746	281.28300	12.10691	0.1716362	2.6803622	79	4	1982–1999	0.58	M-v	1	Williams	38077 1999 RK ₁₀₄
1999 RR ₁₀₄	15.5	0.15	20000226	355.69328	150.88846	260.71824	5.60238	0.1183469	2.2460884	24	3	1996–1999	0.49	M-v	4	Williams	39311 1999 RR ₁₀₄
1999 RX ₁₀₄	15.1	0.15	20000226	41.31841	38.11086	307.41143	12.62616	0.1939991	2.5323319	24	1	68 days	0.42	M-v	4	Williams	36917 1999 RX ₁₀₄
1999 RZ ₁₀₄	14.8	0.15	20000226	68.54066	88.18980	241.62861	1.71801	0.1762645	2.4287869	90	2	1998–1999	0.52	M-v	3	Williams	37297 1999 RZ ₁₀₄
1999 RA ₁₀₅	12.9	0.15	20000226	237.46315	302.90845	225.26480	3.84503	0.0921083	3.1298571	75	3	1993–1999	0.58	M-v	3	Williams	39311 1999 RA ₁₀₅

1999 RD ₁₀₅	13.0	0.15	20000226	143.20631	78.66141	172.08498	5.71565	0.0908811	3.1836207	87	3	1993–2000	0.59	M-v	3	Williams	38803	1999 RD ₁₀₅
1999 RE ₁₀₅	16.2	0.15	20000226	50.74874	341.18523	21.04664	5.56523	0.1629083	2.2780486	44	1	90 days	0.61	M-v	4	Williams	38077	1999 RE ₁₀₅
1999 RF ₁₀₅	13.8	0.15	20000226	83.57540	285.26568	24.02143	9.59876	0.1075794	3.0354708	58	1	65 days	0.54	M-v	4	Williams	38803	1999 RF ₁₀₅
1999 RH ₁₀₅	13.9	0.15	20000226	67.33252	289.36211	46.79512	3.27542	0.0715390	2.7156917	98	1	122 days	0.49	M-v	4	Williams	38077	1999 RH ₁₀₅
1999 RJ ₁₀₅	15.4	0.15	20000226	37.16032	359.42023	18.72331	8.20962	0.1216792	2.3808130	82	1	123 days	0.48	M-v	3	Williams	38077	1999 RJ ₁₀₅
1999 RL ₁₀₅	13.8	0.15	20000226	65.55806	216.39618	115.60110	2.16622	0.1001744	2.9618902	69	1	122 days	0.49	M-v	4	Williams	38803	1999 RL ₁₀₅
1999 RN ₁₀₅	14.9	0.15	20000226	337.03588	286.63070	162.90838	3.98337	0.0897530	2.3156429	62	1	124 days	0.58	M-v	4	Williams	38803	1999 RN ₁₀₅
1999 RO ₁₀₅	14.5	0.15	20000226	144.32502	358.32878	256.43210	5.42377	0.0877288	2.3942749	54	1	105 days	0.53	M-v	4	Williams	36917	1999 RO ₁₀₅
1999 RT ₁₀₅	13.2	0.15	20000226	60.93356	357.68026	323.67236	14.63639	0.0661426	3.0526652	43	1	135 days	0.50	M-v	4	Williams	37297	1999 RT ₁₀₅
1999 RU ₁₀₅	14.1	0.15	20000226	3.25178	113.22796	285.21144	12.95008	0.0970921	2.5968015	46	1	137 days	0.50	M-v	4	Williams	38077	1999 RU ₁₀₅
1999 RV ₁₀₅	14.4	0.15	20000226	14.24853	161.46576	224.39000	14.51011	0.1362948	2.6673378	41	1	106 days	0.54	M-v	4	Williams	38803	1999 RV ₁₀₅
1999 RY ₁₀₅	12.7	0.15	20000226	218.81552	241.95099	288.44529	14.30465	0.0361460	3.1661548	45	3	1995–1999	0.60	M-v	3	Williams	36917	1999 RY ₁₀₅
1999 RD ₁₀₆	16.4	0.15	20000226	41.97144	142.41335	220.09624	5.04343	0.1470496	2.2031345	28	1	70 days	0.44	M-v	4	Williams	38803	1999 RD ₁₀₆
1999 RE ₁₀₆	14.1	0.15	20000226	27.08259	157.84573	205.29316	8.60058	0.1675385	2.8068234	66	1	137 days	0.43	M-v	3	Williams	37297	1999 RE ₁₀₆
1999 RL ₁₀₆	16.6	0.15	20000226	45.87744	70.85460	286.19214	5.64537	0.2230331	2.2901606	38	1	105 days	0.58	M-v	4	Williams		1999 RL ₁₀₆
1999 RU ₁₀₆	14.7	0.15	20000226	92.19328	330.59470	316.44533	13.82968	0.1860586	2.6413994	34	1	81 days	0.59	M-v	4	Williams	36917	1999 RU ₁₀₆
1999 RB ₁₀₇	15.3	0.15	20000226	345.13726	53.45139	11.90081	9.08203	0.1708020	2.7151318	33	2	1997–1999	0.51	M-v	4	Williams	38077	1999 RB ₁₀₇
1999 RG ₁₀₇	15.1	0.15	20000226	341.85204	132.99460	306.31496	1.79417	0.1598385	2.4689605	57	1	62 days	0.59	M-v	5	Williams	38077	1999 RG ₁₀₇
1999 RL ₁₀₇	13.9	0.15	20000226	41.11254	155.16797	200.23858	9.38226	0.0873122	3.1921093	56	1	65 days	0.54	M-v	4	Williams	38077	1999 RL ₁₀₇
1999 RM ₁₀₇	13.6	0.15	20000226	337.94788	140.72170	297.03912	1.93702	0.1611272	3.1777970	79	3	1993–2000	0.61	M-v	2	Williams	38077	1999 RM ₁₀₇
1999 RY ₁₀₇	14.6	0.15	19990919	335.55453	143.75021	239.13491	5.66483	0.1257226	2.9864143	30	1	33 days	0.49			Williams		1999 RY ₁₀₇
1999 RC ₁₀₈	14.6	0.15	19990919	322.82775	178.00314	219.38409	10.09266	0.0867335	3.0688386	27	1	29 days	0.56			Williams		1999 RC ₁₀₈
1999 RM ₁₀₈	13.9	0.15	20000226	106.00292	352.24036	283.48935	8.83036	0.0369901	2.9870210	45	2	1994–1999	0.50	M-v	5	Williams	36429	1999 RM ₁₀₈
1999 RP ₁₀₈	13.8	0.15	20000226	3.21512	89.15599	298.88769	8.59652	0.1009573	3.0190393	36	1	88 days	0.61	M-v	4	Williams	37297	1999 RP ₁₀₈
1999 RX ₁₀₈	14.6	0.15	20000226	46.60709	115.04412	233.04455	11.50521	0.1383126	2.6358942	62	1	136 days	0.49	M-v	3	Williams	38803	1999 RX ₁₀₈
1999 RD ₁₀₉	16.0	0.15	20000226	44.39126	157.20637	191.53557	7.99955	0.3050866	2.7526811	65	1	133 days	0.60	M-v	4	Williams	37297	1999 RD ₁₀₉
1999 RH ₁₀₉	14.8	0.15	19990919	14.32861	124.79976	219.17525	8.81495	0.0998947	3.0733114	24	1	57 days	0.46			Williams		1999 RH ₁₀₉
1999 RJ ₁₀₉	14.8	0.15	20000226	56.11600	12.27687	329.31691	9.06135	0.1969609	2.3627546	64	1	175 days	0.52	M-v	3	Williams	38077	1999 RJ ₁₀₉
1999 RL ₁₀₉	13.2	0.15	20000226	275.79108	273.78448	216.98237	10.60060	0.1548115	3.0491155	59	2	1997–1999	0.74	M-v	3	Williams	38077	1999 RL ₁₀₉
1999 RM ₁₀₉	14.6	0.15	20000226	156.66409	326.23407	271.35607	5.40965	0.0959545	2.4004255	32	3	1987–1999	0.59	M-v	3	Williams	36429	1999 RM ₁₀₉
1999 RN ₁₀₉	15.3	0.15	20000226	29.59398	77.08115	304.36842	5.68257	0.1218078	2.2933167	33	1	105 days	0.56	M-v	4	Williams		1999 RN ₁₀₉
1999 RO ₁₀₉	14.5	0.15	20000226	62.79249	355.47768	331.18547	12.76720	0.1671324	2.6326032	58	2	1997–1999	0.42	M-v	3	Williams	38803	1999 RO ₁₀₉
1999 RQ ₁₀₉	14.6	0.15	20000226	47.09017	30.87469	318.58713	12.15412	0.2484088	2.6062195	48	1	103 days	0.46	M-v	3	Williams	36917	1999 RQ ₁₀₉
1999 RR ₁₀₉	14.4	0.15	20000226	19.74229	52.58152	334.85528	10.58926	0.1844623	2.7528205	70	1	136 days	0.47	M-v	3	Williams	38803	1999 RR ₁₀₉
1999 RX ₁₀₉	12.7	0.15	19990919	279.43458	149.57466	306.30689	11.76250	0.0311832	2.8998963	16	1	41 days	0.37			Williams		1999 RX ₁₀₉
1999 RZ ₁₀₉	15.9	0.15	20000226	48.84160	96.75527	270.00437	6.42698	0.1352555	2.1987735	43	1	82 days	0.55	M-v	4	Williams	37297	1999 RZ ₁₀₉
1999 RF ₁₁₀	13.9	0.15	20000226	344.73002	126.85837	298.19480	8.34650	0.0752689	3.0334349	42	1	112 days	0.57	M-v	4	Williams	36918	1999 RF ₁₁₀
1999 RH ₁₁₀	13.3	0.15	20000226	345.24466	170.35158	255.40365	8.90913	0.0863830	3.0073094	57	3	1989–2000	0.53	M-v	3	Williams	38077	1999 RH ₁₁₀
1999 RK ₁₁₀	14.6	0.15	19990919	25.01690	44.98383	301.59360	12.17725	0.0492718	2.5516093	16	1	33 days	0.40			Williams		1999 RK ₁₁₀
1999 RM ₁₁₀	15.3	0.15	19990919	351.52124	69.54666	317.04141	13.50671	0.2596046	2.6492949	21	1	42 days	0.41			Williams		1999 RM ₁₁₀
1999 RR ₁₁₀	15.7	0.15	20000226	51.63501	68.40782	294.53537	6.54668	0.1368440	2.3286404	42	2	1997–1999	0.63	M-v	4	Williams	37297	1999 RR ₁₁₀
1999 RX ₁₁₀	14.1	0.15	20000226	105.38487	7.46677	295.05183	5.79629	0.0709227	2.5221637	82	4	1989–1999	0.55	M-v	1	Williams	37297	1999 RX ₁₁₀
1999 RZ ₁₁₀	14.8	0.15	20000226	50.35226	24.23193	333.43485	8.28773	0.1340264	2.6242539	52	2	1997–1999	0.52	M-v	4	Williams	36918	1999 RZ ₁₁₀
1999 RE ₁₁₂	14.3	0.15	20000226	53.63248	91.48854	222.72807	7.03380	0.1403546	2.4365599	49	4	1991–1999	0.72	M-v	2	Williams	37819	1999 RE ₁₁₂
1999 RQ ₁₁₂	14.3	0.15	20000226	77.89490	61.41204	218.34281	4.51384	0.1709090	2.4374426	48	1	120 days	0.50	M-v	4	Williams	38077	1999 RQ ₁₁₂
1999 RR ₁₁₃	12.9	0.15	20000226	359.06744	102.04609	303.34303	13.41850	0.2044301	2.5527907	59	1	93 days	0.35	M-v	4	Williams	38077	1999 RR ₁₁₃
1999 RW ₁₁₃	15.0	0.15	20000226	59.17399	108.33352	213.36908	11.93741	0.1115002	2.5443846	23	2	1998–1999	0.70	M-v	4	Williams	36430	1999 RW ₁₁₃
1999 RC ₁₁₄	13.8	0.15	19990919	52.94091	34.80518	252.24350	7.72078	0.0600368	3.0457620	36	1	27 days	0.54			Williams		1999 RC ₁₁₄
1999 RU ₁₁₄	15.9	0.15	20000226	354.90843	201.93900	206.82016	6.51894	0.0970725	2.2689297	38	2	1998–1999	0.67	M-v	4	Williams	39311	1999 RU ₁₁₄
1999 RY ₁₁₄	15.4	0.15	20000226	333.32158	220.76257	217.03941	5.61031	0.1251640	2.2023429	46	1	70 days	0.50	M-v	5	Williams	38077	1999 RY ₁₁₄
1999 RM ₁₁₅	15.2	0.15	19990830	19.64571	158.76335	149.67029	11.28025	0.1160807	2.5818752	41	1	58 days	0.68			Williams		1999 RM ₁₁₅
1999 RS ₁₁₅	14.9	0.15	19990919	38.29820	129.88564	156.43976	6.22280	0.1527795	2.2461626	28	1	31 days	0.49			Williams		1999 RS ₁₁₅
1999 RW ₁₁₅	15.7	0.15	20000226	42.27127	173.45914	167.75744	4.67446	0.2408848	2.3196887	45	1	113 days	0.51	M-v	4	Williams	36562	1999 RW ₁₁₅

1999 RX ₁₁₅	15.9	0.15	20000226	60.76279	149.63196	163.64847	4.15754	0.1913614	2.2869721	48	1	86 days	0.51	M-v	3	Williams	36918	1999 RX ₁₁₅
1999 RY ₁₁₅	13.3	0.15	20000226	356.51480	218.88540	154.12868	12.05000	0.1478615	3.0526739	60	2	1998–1999	0.54	M-v	3	Williams	38077	1999 RY ₁₁₅
1999 RZ ₁₁₅	14.5	0.15	20000226	40.56154	17.91377	319.19183	7.55991	0.1537822	2.3616593	60	1	138 days	0.51	M-v	3	Williams	38077	1999 RZ ₁₁₅
1999 RA ₁₁₆	14.3	0.15	20000226	47.05746	160.25317	155.59320	14.40317	0.2002565	2.6610941	72	8	1982–1999	0.66	M-v	1	Williams	38561	1999 RA ₁₁₆
1999 RB ₁₁₆	14.5	0.15	19990919	39.16872	115.95476	167.13818	6.27221	0.0999803	2.3779088	16	1	56 days	0.50			Williams		1999 RB ₁₁₆
1999 RM ₁₁₆	14.2	0.15	20000226	55.00665	32.70163	268.23616	9.56779	0.1662301	2.8084202	32	2	1998–1999	0.71	M-v	4	Williams	36431	1999 RM ₁₁₆
1999 RT ₁₁₆	13.5	0.15	20000226	133.15105	313.64280	258.39873	4.44754	0.1975332	2.5336066	59	6	1930–1999	0.49	M-v	1	Williams	36432	1999 RT ₁₁₆
1999 RE ₁₁₇	14.3	0.15	20000226	300.08464	159.15385	284.49721	5.89421	0.0749191	2.3353427	61	2	1998–1999	0.64	M-v	4	Williams	38803	1999 RE ₁₁₇
1999 RT ₁₁₇	13.6	0.15	20000226	20.57517	72.63264	282.51832	13.56305	0.1270124	2.6739044	41	1	143 days	0.44	M-v	3	Williams	38077	1999 RT ₁₁₇
1999 RX ₁₁₇	14.6	0.15	20000226	44.99082	62.15221	263.66716	7.38538	0.2400821	2.5744742	34	1	105 days	0.44	M-v	3	Williams	36562	1999 RX ₁₁₇
1999 RF ₁₁₈	14.2	0.15	20000226	81.88054	116.02641	156.89269	13.57936	0.1258983	2.7118982	54	2	1998–1999	0.59	M-v	3	Williams	36918	1999 RF ₁₁₈
1999 RT ₁₁₈	14.5	0.15	20000226	53.19606	133.72646	175.52558	12.33524	0.1731270	2.6884245	39	2	1998–1999	0.61	M-v	3	Williams	36432	1999 RT ₁₁₈
1999 RX ₁₁₈	13.5	0.15	20000226	355.63300	201.80715	196.17251	12.05884	0.2512085	2.6938709	55	4	1955–1999	0.68	M-v	2	Williams	38077	1999 RX ₁₁₈
1999 RQ ₁₁₉	15.0	0.15	20000226	86.96418	109.87140	174.33429	7.56168	0.1163045	2.3107191	51	3	1978–1999	0.65	M-v	3	Williams	36432	1999 RQ ₁₁₉
1999 RW ₁₁₉	13.7	0.15	20000226	67.24478	320.63946	327.32273	12.15949	0.1820690	2.6715400	78	3	1997–1999	0.61	M-v	2	Williams	36918	1999 RW ₁₁₉
1999 RE ₁₂₀	14.7	0.15	20000226	227.30356	246.68655	270.37489	0.95020	0.0290480	2.1798625	51	3	1990–1999	0.55	M-v	3	Williams	38803	1999 RE ₁₂₀
1999 RK ₁₂₀	14.9	0.15	20000226	90.30586	101.57163	173.13077	4.74465	0.1464339	2.3967926	42	2	1998–1999	0.44	M-v	4	Williams	36433	1999 RK ₁₂₀
1999 RP ₁₂₀	15.0	0.15	20000226	32.31400	24.99268	320.73138	13.20493	0.2504856	2.6600881	40	1	140 days	0.57	M-v	3	Williams	37298	1999 RP ₁₂₀
1999 RQ ₁₂₁	14.8	0.15	20000226	88.06332	309.74866	330.19170	8.69001	0.0655775	2.5330210	38	2	1998–1999	0.59	M-v	3	Williams	38561	1999 RQ ₁₂₁
1999 RC ₁₂₃	15.1	0.15	20000226	205.11535	327.07234	219.22173	6.03338	0.0493962	2.3628421	41	2	1998–1999	0.59	M-v	4	Williams	39311	1999 RC ₁₂₃
1999 RH ₁₂₃	14.0	0.15	19990919	218.83076	212.77940	282.08197	8.07672	0.0229998	3.0857038	26	1	26 days	0.54			Williams		1999 RH ₁₂₃
1999 RK ₁₂₃	15.3	0.15	20000226	0.70843	167.89955	239.91895	6.15516	0.1168426	2.2911145	45	3	1982–1999	0.45	M-v	3	Williams	37298	1999 RK ₁₂₃
1999 RN ₁₂₃	13.3	0.15	20000226	10.83735	70.28503	308.76765	10.98494	0.0775298	2.9444254	42	1	135 days	0.65	M-v	4	Williams	37298	1999 RN ₁₂₃
1999 RQ ₁₂₃	15.2	0.15	20000226	25.41990	151.41111	223.56135	8.17963	0.3256692	2.7245206	74	1	91 days	0.45	M-v	3	Williams	38077	1999 RQ ₁₂₃
1999 RR ₁₂₃	13.0	0.15	19990919	180.22214	305.17232	229.56156	10.73108	0.0701063	3.1691825	43	1	53 days	0.47			Williams		1999 RR ₁₂₃
1999 RU ₁₂₃	14.6	0.15	20000226	90.97916	83.98345	191.37479	7.26668	0.1883125	2.8101848	63	2	1998–1999	0.56	M-v	3	Williams	36435	1999 RU ₁₂₃
1999 RA ₁₂₄	14.4	0.15	20000226	40.93123	65.11149	279.72602	6.16852	0.2261881	2.7766455	57	2	1994–1999	0.52	M-v	3	Williams	37298	1999 RA ₁₂₄
1999 RD ₁₂₄	15.4	0.15	20000226	90.68144	110.18418	178.02646	2.11250	0.1618077	2.4574858	61	3	1991–1999	0.72	M-v	3	Williams	36435	1999 RD ₁₂₄
1999 RE ₁₂₄	14.8	0.15	20000226	51.63767	142.56080	195.27703	13.79080	0.1147894	2.5949587	82	3	1995–1999	0.51	M-v	2	Williams	38077	1999 RE ₁₂₄
1999 RG ₁₂₄	14.2	0.15	20000226	33.24414	58.16025	306.47008	8.98787	0.1330261	2.5834434	48	1	135 days	0.56	M-v	3	Williams	37298	1999 RG ₁₂₄
1999 RJ ₁₂₄	15.4	0.15	19990919	262.01801	204.62876	258.73272	6.59117	0.0652094	2.2576796	29	1	52 days	0.67			Williams		1999 RJ ₁₂₄
1999 RL ₁₂₄	13.7	0.15	20000226	23.22775	52.17981	327.78242	12.35538	0.2024420	2.6401501	80	1	138 days	0.46	M-v	3	Williams	38803	1999 RL ₁₂₄
1999 RO ₁₂₄	14.6	0.15	20000226	18.30035	173.52130	207.76872	11.03628	0.1548767	2.7376389	40	1	69 days	0.56	M-v	4	Williams	38077	1999 RO ₁₂₄
1999 RQ ₁₂₄	15.1	0.15	20000226	36.95547	41.29245	318.80693	12.22375	0.1690893	2.6576824	55	1	97 days	0.54	M-v	3	Williams	38803	1999 RQ ₁₂₄
1999 RF ₁₂₅	15.6	0.15	20000226	54.76272	17.40600	318.37835	2.27823	0.1977269	2.2497122	37	1	99 days	0.45	M-v	3	Williams	38803	1999 RF ₁₂₅
1999 RL ₁₂₅	13.4	0.15	20000226	37.57773	359.43418	333.07259	15.90862	0.0859469	3.1509912	42	1	61 days	0.63	M-v	4	Williams	38077	1999 RL ₁₂₅
1999 RV ₁₂₅	14.1	0.15	20000226	101.85635	310.97500	320.42550	7.65612	0.1153731	2.3916832	60	3	1994–1999	0.67	M-v	2	Williams	38077	1999 RV ₁₂₅
1999 RY ₁₂₅	13.5	0.15	20000226	77.25927	307.35817	325.07736	15.83370	0.1932148	3.1209430	35	1	77 days	0.58	M-v	5	Williams	38077	1999 RY ₁₂₅
1999 RZ ₁₂₅	13.5	0.15	20000226	147.77397	254.55848	324.87623	14.83160	0.1233613	2.5302676	36	2	1991–1999	0.57	M-v	5	Williams	38077	1999 RZ ₁₂₅
1999 RF ₁₂₆	13.9	0.15	20000226	40.95702	15.69734	322.58359	13.41038	0.0986763	2.5415124	63	2	1991–1999	0.54	M-v	3	Williams	37298	1999 RF ₁₂₆
1999 RG ₁₂₆	15.3	0.15	20000226	11.35618	204.24960	183.12501	7.64231	0.3130217	2.7275021	42	2	1997–1999	0.56	M-v	3	Williams	36436	1999 RG ₁₂₆
1999 RX ₁₂₇	14.7	0.15	20000226	16.57984	147.39008	235.56030	1.79719	0.2213250	2.3242369	49	3	1985–1999	0.71	M-v	3	Williams	38078	1999 RX ₁₂₇
1999 RT ₁₂₈	14.1	0.15	20000226	37.08207	152.29817	183.41644	6.91720	0.2772766	2.7613086	75	3	1981–1999	0.78	M-v	2	Williams	38078	1999 RT ₁₂₈
1999 RX ₁₂₈	15.3	0.15	20000226	107.37428	73.91811	183.57261	4.31151	0.1552024	2.3492767	30	2	1995–1999	0.61	M-v	4	Williams	36437	1999 RX ₁₂₈
1999 RB ₁₂₉	12.9	0.15	20000226	36.70806	168.95373	156.42497	23.20199	0.0826610	3.1670961	52	1	80 days	0.41	M-v	3	Williams	36918	1999 RB ₁₂₉
1999 RC ₁₂₉	12.9	0.15	20000226	256.09933	153.27903	325.78449	12.44856	0.1412944	3.0284141	42	1	84 days	0.50	M-v	4	Williams	36918	1999 RC ₁₂₉
1999 RK ₁₂₉	15.1	0.15	20000226	10.26713	51.41828	336.85274	4.93066	0.1448338	2.2401054	34	4	1969–1999	0.53	M-v	1	Williams	36438	1999 RK ₁₂₉
1999 RM ₁₂₉	15.4	0.15	20000226	22.12702	35.07699	340.41177	5.00002	0.2205716	2.3440218	45	1	92 days	0.50	M-v	4	Williams	36918	1999 RM ₁₂₉
1999 RN ₁₂₉	15.2	0.15	20000226	4.55631	247.23684	145.50990	4.51810	0.1679376	2.3234077	47	3	1994–1999	0.68	M-v	4	Williams	36438	1999 RN ₁₂₉
1999 RS ₁₂₉	14.6	0.15	20000226	62.52077	328.85764	346.10503	7.13995	0.1895275	2.2940992	72	5	1977–1999	0.51	M-v	2	Williams	38078	1999 RS ₁₂₉
1999 RE ₁₃₀	13.6	0.15	20000226	328.80250	86.90589	339.53549	8.59751	0.2581212	3.0466876	45	2	1996–1999	0.49	M-v	3	Williams	38078	1999 RE ₁₃₀
1999 RH ₁₃₀	15.5	0.15	20000226	16.34801	217.02465	164.86690	2.82424	0.2154805	2.3821912	49	3	1988–1999	0.56	M-v	2	Williams	38078	1999 RH ₁₃₀
1999 RL ₁₃₀	14.9	0.15	20000226	1.23565	238.59632	159.68359	4.93159	0.1951801	2.4232067	48	4	1988–1999	0.64	M-v	2	Williams	38803	1999 RL ₁₃₀

1999 RT ₁₃₀	14.7	0.15	20000226	42.50330	163.16824	167.95319	12.10609	0.1842956	2.6731002	54	5	1982–1999	0.57	M-v	1	Williams	38078	1999 RT ₁₃₀
1999 RF ₁₃₁	15.0	0.15	19990919	4.17802	125.15613	208.99490	8.36390	0.1674386	2.7661422	27	1	24 days	0.39			Williams		1999 RF ₁₃₁
1999 RX ₁₃₁	15.7	0.15	20000226	39.97272	87.74462	258.10674	5.01768	0.1482349	2.4067543	24	1	80 days	0.55	M-v	4	Williams		1999 RX ₁₃₁
1999 RA ₁₃₂	14.8	0.15	20000226	27.94008	150.82787	212.12751	5.73855	0.1264961	2.3284740	90	5	1985–2000	0.68	M-v	2	Williams	38078	1999 RA ₁₃₂
1999 RB ₁₃₂	13.4	0.15	20000226	326.78947	223.91741	188.71519	9.74487	0.1055992	2.9784383	44	3	1989–1999	0.44	M-v	3	Williams	36439	1999 RB ₁₃₂
1999 RC ₁₃₂	15.5	0.15	20000226	23.06495	141.61049	229.89080	3.54720	0.3097385	2.6069104	36	1	72 days	0.53	M-v	5 D	Williams		1999 RC ₁₃₂
1999 RP ₁₃₂	12.6	0.15	20000226	339.43404	99.97445	312.49417	12.87148	0.2332884	3.1698400	54	3	1984–1999	0.56	M-v	2	Williams	37298	1999 RP ₁₃₂
1999 RB ₁₃₃	14.1	0.15	20000226	339.53475	199.10763	232.11319	6.17919	0.2865202	2.6342497	45	1	121 days	0.53	M-v	4	Williams	38078	1999 RB ₁₃₃
1999 RH ₁₃₃	14.4	0.15	19990830	41.93086	20.26435	264.63401	8.14827	0.1205499	2.7624912	24	1	27 days	0.46			Williams		1999 RH ₁₃₃
1999 RL ₁₃₃	12.8	0.15	20000226	193.55895	332.08689	198.60076	12.75550	0.1015158	3.2223602	54	4	1991–1999	0.61	M-v	1	Williams	39312	1999 RL ₁₃₃
1999 RQ ₁₃₃	15.5	0.15	20000226	80.59017	39.97914	251.63759	5.91222	0.1561669	2.4322592	36	1	88 days	0.52	M-v	4	Williams	36563	1999 RQ ₁₃₃
1999 RU ₁₃₃	14.1	0.15	20000226	289.16036	244.49466	209.44480	8.42981	0.0596092	2.7273381	41	5	1977–1999	0.67	M-v	1	Williams	36440	1999 RU ₁₃₃
1999 RV ₁₃₃	14.1	0.15	20000226	90.09605	11.25177	277.18373	5.98492	0.1091291	2.3104826	36	3	1992–1999	0.40	M-v	3	Williams	38562	1999 RV ₁₃₃
1999 RW ₁₃₃	15.1	0.15	20000226	65.52771	92.88285	223.33630	5.42114	0.1397013	2.3169596	48	1	125 days	0.53	M-v	4	Williams	37298	1999 RW ₁₃₃
1999 RB ₁₃₄	14.3	0.15	20000226	284.40790	227.27799	244.21774	5.76111	0.1098137	2.3695477	42	3	1996–1999	0.68	M-v	4	Williams	38803	1999 RB ₁₃₄
1999 RD ₁₃₅	13.3	0.15	20000226	8.63213	205.78507	160.99695	11.35592	0.1168626	2.9909357	51	1	70 days	0.46	M-v	5	Williams	38078	1999 RD ₁₃₅
1999 RE ₁₃₅	13.7	0.15	20000226	203.86959	7.57859	161.77829	4.79442	0.0343399	2.7101114	58	2	1998–1999	0.59	M-v	4	Williams	36441	1999 RE ₁₃₅
1999 RF ₁₃₅	13.8	0.15	20000226	350.77761	230.50240	158.52065	21.64452	0.1578003	3.1604813	47	1	80 days	0.50	M-v	4	Williams	36919	1999 RF ₁₃₅
1999 RM ₁₃₅	12.3	0.15	20000226	211.34899	171.82458	340.45417	22.66942	0.0695913	3.2160125	53	1	92 days	0.54	M-v	4	Williams	36563	1999 RM ₁₃₅
1999 RO ₁₃₅	15.0	0.15	20000226	35.02399	0.52784	346.15141	13.37210	0.1895835	2.5627898	49	1	61 days	0.52	M-v	4	Williams	38078	1999 RO ₁₃₅
1999 RW ₁₃₅	15.1	0.15	20000226	28.56791	4.91648	358.37373	6.42250	0.2175509	2.4384111	45	1	62 days	0.47	M-v	5	Williams	38078	1999 RW ₁₃₅
1999 RK ₁₃₆	16.3	0.15	20000226	66.81563	314.72487	353.46764	4.28667	0.2476723	2.3106273	33	3	1992–1999	0.61	M-v	3	Williams	36442	1999 RK ₁₃₆
1999 RP ₁₃₆	13.6	0.15	20000226	333.01770	76.94231	336.43113	14.42435	0.1199590	2.8117416	43	1	68 days	0.60	M-v	5	Williams	36563	1999 RP ₁₃₆
1999 RU ₁₃₆	15.8	0.15	20000226	44.47049	168.46409	165.44003	8.15090	0.2393420	2.5432289	44	3	1991–1999	0.56	M-v	3	Williams	38078	1999 RU ₁₃₆
1999 RZ ₁₃₆	16.1	0.15	20000226	39.31591	180.09674	172.81858	6.90797	0.1279587	2.2483409	28	2	1996–1999	0.77	M-v	5	Williams	36442	1999 RZ ₁₃₆
1999 RA ₁₃₇	15.1	0.15	20000226	52.06997	141.76730	177.41746	4.02711	0.2534326	2.5847268	47	1	82 days	0.50	M-v	4	Williams	38078	1999 RA ₁₃₇
1999 RT ₁₃₇	13.1	0.15	20000226	338.19835	66.74768	333.82451	9.01819	0.0875675	2.9934566	62	3	1953–1999	0.70	M-v	4	Williams	37184	1999 RT ₁₃₇
1999 RX ₁₃₇	15.5	0.15	19990919	336.14715	217.74765	157.30859	6.25664	0.1412348	2.3899798	32	1	36 days	0.41			Williams		1999 RX ₁₃₇
1999 RG ₁₃₈	15.3	0.15	20000226	93.65871	289.34028	358.13817	3.94429	0.1126188	2.2072385	45	4	1995–1999	0.44	M-v	1	Williams	36443	1999 RG ₁₃₈
1999 RN ₁₃₈	14.3	0.15	20000226	96.34395	346.00475	289.85618	12.78070	0.2139893	2.4705058	49	1	112 days	0.45	M-v	4	Williams	38803	1999 RN ₁₃₈
1999 RX ₁₃₈	15.5	0.15	20000226	49.70647	119.77999	215.99168	5.04960	0.1973652	2.2753867	33	1	86 days	0.55	M-v	4	Williams		1999 RX ₁₃₈
1999 RZ ₁₃₈	14.8	0.15	20000226	15.07462	164.38329	211.62902	9.53065	0.2630332	2.7330206	36	2	1990–1999	0.59	M-v	4	Williams	38562	1999 RZ ₁₃₈
1999 RL ₁₃₉	14.7	0.15	20000226	7.57635	43.66816	336.33203	6.99129	0.0726462	2.3580640	54	2	1998–1999	0.63	M-v	4	Williams	36443	1999 RL ₁₃₉
1999 RY ₁₄₁	16.0	0.15	20000226	14.84418	194.14539	203.94800	2.18205	0.1155183	2.2127174	75	2	1998–1999	0.56	M-v	4	Williams	38803	1999 RY ₁₄₁
1999 RE ₁₄₂	16.8	0.15	20000226	68.95340	297.40684	22.34455	2.77771	0.2193973	2.3027782	39	2	1992–1999	0.79	M-v	4	Williams	38562	1999 RE ₁₄₂
1999 RJ ₁₄₂	13.6	0.15	20000226	145.65612	89.18921	144.92037	5.09078	0.0775606	3.1885867	48	2	1997–1999	0.81	M-v	4	Williams	38078	1999 RJ ₁₄₂
1999 RL ₁₄₂	13.7	0.15	20000226	239.65874	133.75513	28.43694	6.44859	0.0765986	2.4622556	76	5	1970–1999	0.67	M-v	2	Williams	37298	1999 RL ₁₄₂
1999 RV ₁₄₂	15.1	0.15	20000226	43.53127	232.41695	130.54882	4.81533	0.2347557	2.2600475	71	1	178 days	0.55	M-v	3	Williams	38078	1999 RV ₁₄₂
1999 RW ₁₄₂	14.4	0.15	20000226	329.34887	81.04863	359.80127	4.83447	0.1173756	2.6778832	65	2	1997–1999	0.49	M-v	4	Williams	37298	1999 RW ₁₄₂
1999 RH ₁₄₃	13.9	0.15	19990919	24.27436	158.38809	179.56485	10.70671	0.0164230	3.1180437	50	1	59 days	0.62			Williams		1999 RH ₁₄₃
1999 RK ₁₄₃	16.4	0.15	19990919	351.04950	212.71273	162.45834	3.15827	0.2011990	2.5363661	16	1	28 days	0.45			Williams		1999 RK ₁₄₃
1999 RL ₁₄₃	14.5	0.15	20000226	122.24092	92.26082	176.56354	8.54796	0.0814722	2.6090898	50	2	1998–1999	0.61	M-v	3	Williams	36444	1999 RL ₁₄₃
1999 RM ₁₄₃	15.0	0.15	20000226	59.52655	315.41879	8.13249	4.96088	0.2450699	2.6568143	71	1	107 days	0.48	M-v	4	Williams	38078	1999 RM ₁₄₃
1999 RS ₁₄₃	14.0	0.15	20000226	37.91322	157.81450	187.15053	10.36286	0.1143268	3.1265346	49	2	1998–1999	0.51	M-v	3	Williams	36829	1999 RS ₁₄₃
1999 RT ₁₄₃	15.0	0.15	20000226	29.48912	186.56937	188.44365	6.50140	0.1251631	2.3541133	79	3	1994–1999	0.51	M-v	2	Williams	38803	1999 RT ₁₄₃
1999 RV ₁₄₃	15.3	0.15	20000226	247.37164	319.01835	195.32287	5.74648	0.0492423	2.3407349	53	2	1998–1999	0.59	M-v	4	Williams	38803	1999 RV ₁₄₃
1999 RW ₁₄₃	16.0	0.15	20000226	80.52819	78.31753	227.42500	2.28189	0.2055596	2.2454103	77	1	137 days	0.51	M-v	4	Williams	38803	1999 RW ₁₄₃
1999 RB ₁₄₄	16.2	0.15	20000226	17.59585	162.37424	209.81385	5.43353	0.2428760	3.1045172	19	1	68 days	0.65	M-v	5	Williams	38078	1999 RB ₁₄₄
1999 RH ₁₄₄	15.0	0.15	20000226	51.68842	120.43434	201.30190	9.80290	0.0983213	3.0173972	30	3	1988–1999	0.67	M-v	3	Williams	38078	1999 RH ₁₄₄
1999 RO ₁₄₄	13.6	0.15	20000226	211.55245	333.24194	194.54660	13.68515	0.1264579	2.6599204	48	1	63 days	0.64	M-v	5	Williams	38078	1999 RO ₁₄₄
1999 RA ₁₄₅	15.2	0.15	20000226	35.26325	162.74628	185.37463	12.56953	0.2597669	2.6326164	57	2	1998–1999	0.47	M-v	3	Williams	38804	1999 RA ₁₄₅
1999 RB ₁₄₅	12.7	0.15	20000226	325.28185	107.58640	323.48226	20.97711	0.2140588	3.1098224	56	3	1988–1999	0.49	M-v	1	Williams	37298	1999 RB ₁₄₅
1999 RD ₁₄₅	15.2	0.15	20000226	95.08347	50.74231	223.78643	5.24486	0.2315731	2.2260294	47	1	88 days	0.47	M-v	4	Williams	37298	1999 RD ₁₄₅

1999 RG ₁₄₅	14.3	0.15	20000226	178.87585	10.28293	185.37405	13.27914	0.0954118	2.5265292	56	2	1998–1999	0.53	M-v	3	Williams	38563	1999 RG ₁₄₅
1999 RH ₁₄₅	15.3	0.15	20000226	57.45879	92.90488	233.30908	4.05603	0.2183945	2.3155436	61	2	1978–1999	0.57	M-v	3	Williams	37298	1999 RH ₁₄₅
1999 RQ ₁₄₅	14.3	0.15	20000226	73.59712	21.92304	275.08344	4.24609	0.1021206	2.7000395	41	2	1998–1999	0.67	M-v	4	Williams	38078	1999 RQ ₁₄₅
1999 RZ ₁₄₅	15.3	0.15	20000226	94.92520	92.27192	190.57349	5.59428	0.1059078	2.3133512	29	3	1992–1999	0.69	M-v	3	Williams	36446	1999 RZ ₁₄₅
1999 RF ₁₄₆	14.7	0.15	20000226	350.73173	141.37785	272.47397	3.09343	0.1084624	2.1920717	88	3	1997–1999	0.58	M-v	3	Williams	36919	1999 RF ₁₄₆
1999 RM ₁₄₆	13.4	0.15	20000226	357.59691	201.17021	182.99034	10.57188	0.1111786	2.9767416	83	1	111 days	0.63	M-v	4	Williams	38078	1999 RM ₁₄₆
1999 RW ₁₄₆	15.1	0.15	20000226	121.06818	358.27299	255.11920	5.52587	0.0938523	2.4472193	50	5	1992–1999	0.58	M-v	1	Williams	36446	1999 RW ₁₄₆
1999 RY ₁₄₆	15.2	0.15	20000226	62.09120	65.58464	250.01753	5.24248	0.1241802	2.5327616	29	2	1998–1999	0.66	M-v	4	Williams	36446	1999 RY ₁₄₆
1999 RG ₁₄₇	13.9	0.15	20000226	1.93875	89.01126	288.30104	8.28269	0.1092929	3.0957360	42	1	89 days	0.59	M-v	5	Williams	37298	1999 RG ₁₄₇
1999 RY ₁₄₇	14.5	0.15	20000226	2.52712	86.54424	319.85779	8.91690	0.1908978	2.3180333	61	2	1985–1999	0.45	M-v	3	Williams	38078	1999 RY ₁₄₇
1999 RA ₁₄₈	13.5	0.15	20000226	350.89554	85.63554	314.28176	7.40199	0.1936289	3.0831296	58	2	1996–1999	0.57	M-v	3	Williams	37298	1999 RA ₁₄₈
1999 RF ₁₄₈	15.6	0.15	20000226	70.52815	92.88317	220.03036	2.66679	0.1715782	2.2404065	49	3	1989–1999	0.73	M-v	4	Williams	36447	1999 RF ₁₄₈
1999 RH ₁₄₈	14.2	0.15	20000226	86.78544	315.99166	327.38454	10.19055	0.1164397	2.6196441	49	2	1998–1999	0.53	M-v	3	Williams	36919	1999 RH ₁₄₈
1999 RM ₁₄₈	13.7	0.15	20000226	312.06783	244.76892	184.17548	4.52672	0.0521182	2.7786954	54	4	1994–1999	0.73	M-v	1	Williams	36919	1999 RM ₁₄₈
1999 RA ₁₄₉	15.2	0.15	20000226	37.80556	84.82169	266.79175	0.48420	0.1968213	2.4021445	70	1	69 days	0.61	M-v	5	Williams	38078	1999 RA ₁₄₉
1999 RM ₁₄₉	16.1	0.15	20000226	41.73334	359.81221	349.24795	2.65513	0.2521418	2.3638139	38	2	1981–1999	0.60	M-v	3	Williams	37298	1999 RM ₁₄₉
1999 RW ₁₄₉	14.4	0.15	20000226	67.41703	355.31719	316.67463	2.31922	0.1875745	2.3217738	81	3	1992–1999	0.67	M-v	2	Williams	38078	1999 RW ₁₄₉
1999 RX ₁₄₉	13.5	0.15	20000226	288.68669	298.18823	166.02127	13.67476	0.1295081	2.6008997	64	3	1991–1999	0.62	M-v	3	Williams	37298	1999 RX ₁₄₉
1999 RY ₁₄₉	16.0	0.15	20000226	42.40268	19.88572	331.99471	6.17285	0.2081270	2.2804236	45	4	1982–1999	0.60	M-v	2	Williams	37298	1999 RY ₁₄₉
1999 RB ₁₅₀	14.2	0.15	20000226	132.11814	292.56115	311.86493	2.19767	0.0267095	2.6492545	67	3	1991–1999	0.69	M-v	3	Williams	36919	1999 RB ₁₅₀
1999 RC ₁₅₀	15.3	0.15	20000226	345.13845	101.91175	321.58765	2.28922	0.1447788	2.2245376	45	1	97 days	0.61	M-v	5	Williams	36919	1999 RC ₁₅₀
1999 RE ₁₅₀	16.0	0.15	20000226	40.20465	15.06970	340.99308	5.37676	0.1861832	2.2533200	61	4	1989–1999	0.74	M-v	2	Williams	37298	1999 RE ₁₅₀
1999 RK ₁₅₀	15.1	0.15	19990919	19.98211	327.53444	342.14490	18.23998	0.2586663	3.1818156	36	1	26 days	0.57			Williams		1999 RK ₁₅₀
1999 RM ₁₅₀	16.8	0.15	20000226	38.71520	349.51549	0.43551	1.00216	0.2552253	2.4577536	18	2	1997–1999	0.52	M-v	5	Williams	36449	1999 RM ₁₅₀
1999 RP ₁₅₀	14.3	0.15	20000226	41.72896	348.09037	346.89857	13.71473	0.1803120	2.6895895	63	1	70 days	0.55	M-v	4	Williams	38078	1999 RP ₁₅₀
1999 RB ₁₅₁	13.3	0.15	20000226	303.46762	314.00156	124.59325	6.75003	0.1250954	3.1514380	32	1	94 days	0.51	M-v	5	Williams	36919	1999 RB ₁₅₁
1999 RH ₁₅₁	13.2	0.15	20000226	87.17184	278.47610	356.89458	10.18628	0.0667523	3.0805237	31	1	66 days	0.45	M-v	5	Williams		1999 RH ₁₅₁
1999 RN ₁₅₁	15.4	0.15	20000226	4.78915	39.19621	1.69256	5.24653	0.2835774	2.6201991	51	2	1997–1999	0.59	M-v	3	Williams	38078	1999 RN ₁₅₁
1999 RX ₁₅₁	13.2	0.15	20000226	234.21553	12.88341	128.17547	4.48171	0.0641475	3.0021029	49	4	1982–1999	0.73	M-v	2	Williams	38078	1999 RX ₁₅₁
1999 RB ₁₅₂	14.6	0.15	20000226	69.84768	146.10239	150.93517	6.70477	0.2643100	2.4673693	57	3	1994–1999	0.67	M-v	2	Williams	38078	1999 RB ₁₅₂
1999 RF ₁₅₂	14.7	0.15	20000226	42.67298	355.53455	336.27297	7.56722	0.2199874	2.7829023	61	1	70 days	0.60	M-v	4	Williams	38078	1999 RF ₁₅₂
1999 RM ₁₅₂	14.6	0.15	20000226	40.47602	353.79039	334.68560	5.49950	0.2711014	2.9873800	45	1	68 days	0.66	M-v	4	Williams	38078	1999 RM ₁₅₂
1999 RO ₁₅₂	15.7	0.15	20000226	53.08162	167.18368	167.60608	7.11738	0.1960650	2.3183474	48	1	69 days	0.56	M-v	4	Williams	38078	1999 RO ₁₅₂
1999 RR ₁₅₂	16.0	0.15	20000226	24.03986	186.17423	191.36286	4.61417	0.3190082	2.5484537	57	1	107 days	0.55	M-v	4	Williams	37298	1999 RR ₁₅₂
1999 RV ₁₅₂	14.7	0.15	20000226	26.61254	166.05153	184.98020	9.94482	0.1543323	2.9821826	46	3	1989–1999	0.57	M-v	3	Williams	36830	1999 RV ₁₅₂
1999 RX ₁₅₂	15.0	0.15	20000226	13.04999	198.31137	182.11961	9.98414	0.2334411	2.7836594	57	3	1976–1999	0.68	M-v	3	Williams	38078	1999 RX ₁₅₂
1999 RY ₁₅₂	14.9	0.15	20000226	30.14674	66.56254	298.14193	5.23916	0.1518585	2.3769007	49	1	103 days	0.64	M-v	4	Williams	38079	1999 RY ₁₅₂
1999 RE ₁₅₄	13.7	0.15	20000226	35.69389	13.45181	334.89979	14.20687	0.1223962	2.6413037	59	1	118 days	0.48	M-v	3	Williams	37299	1999 RE ₁₅₄
1999 RS ₁₅₄	13.5	0.15	20000226	319.88174	134.56319	284.87548	2.54611	0.0613628	3.2250743	27	1	70 days	0.49	M-v	6	Williams	38079	1999 RS ₁₅₄
1999 RE ₁₅₅	15.1	0.15	20000226	65.72365	95.29158	218.08065	4.18576	0.0953079	2.6084849	34	2	1998–1999	0.70	M-v	4	Williams	36919	1999 RE ₁₅₅
1999 RL ₁₅₅	15.6	0.15	20000226	18.89797	144.53301	241.44034	3.75840	0.1525013	2.2724339	48	2	1998–1999	0.60	M-v	4	Williams	37820	1999 RL ₁₅₅
1999 RO ₁₅₅	13.6	0.15	20000226	26.26382	36.90071	317.85272	10.02292	0.1128286	2.9776006	46	1	103 days	0.41	M-v	4	Williams	37299	1999 RO ₁₅₅
1999 RW ₁₅₅	14.4	0.15	20000226	71.08841	112.96966	187.78357	11.82458	0.0740403	3.0094860	47	5	1992–1999	0.51	M-v	1	Williams	36451	1999 RW ₁₅₅
1999 RZ ₁₅₅	15.7	0.15	20000226	41.08822	141.84824	203.76610	5.04483	0.2896557	2.5599509	81	2	1991–1999	0.61	M-v	2	Williams	37184	1999 RZ ₁₅₅
1999 RA ₁₅₆	15.5	0.15	20000226	92.45447	38.80301	247.70100	3.45266	0.1675334	2.2914384	48	1	84 days	0.60	M-v	5	Williams	38079	1999 RA ₁₅₆
1999 RD ₁₅₆	14.2	0.15	20000226	45.04350	59.19360	266.13157	3.70368	0.1371330	3.1647373	34	1	68 days	0.50	M-v	5	Williams	38079	1999 RD ₁₅₆
1999 RL ₁₅₆	14.9	0.15	20000226	25.70040	169.49978	198.65851	3.60778	0.2473440	2.6341756	64	1	107 days	0.68	M-v	4	Williams	38079	1999 RL ₁₅₆
1999 RS ₁₅₆	14.6	0.15	20000226	50.58883	147.24757	174.35267	12.29573	0.1397023	2.9728688	31	2	1998–1999	0.55	M-v	3	Williams	38804	1999 RS ₁₅₆
1999 RR ₁₅₇	14.6	0.15	20000226	25.61977	347.67885	10.16934	8.29364	0.2316334	2.7936562	43	2	1990–1999	0.57	M-v	3	Williams	37299	1999 RR ₁₅₇
1999 RZ ₁₅₇	15.8	0.15	20000226	17.36572	332.12837	51.71730	3.42688	0.1554841	2.3204144	38	2	1998–1999	0.62	M-v	4	Williams	36919	1999 RZ ₁₅₇
1999 RA ₁₅₈	14.2	0.15	20000226	348.57316	52.96023	357.37883	13.24368	0.1742948	2.6452700	55	1	107 days	0.51	M-v	4	Williams	38804	1999 RA ₁₅₈
1999 RB ₁₅₈	12.5	0.15	20000226	66.61272	302.91543	355.36128	16.55230	0.0880753	3.1751772	82	2	1997–1999	0.58	M-v	3	Williams	38079	1999 RB ₁₅₈
1999 RR ₁₅₈	13.7	0.15	20000226	58.33830	308.24346	348.17396	14.49469	0.2502795	3.1835009	63	3	1997–1999	0.61	M-v	2	Williams	37299	1999 RR ₁₅₈

1999 RU ₁₅₈	13.6	0.15	20000226	19.20281	200.39997	159.09209	11.07419	0.0875396	3.0584283	42	2	1998–1999	0.57	M-v	3	Williams	37299	1999 RU ₁₅₈
1999 RF ₁₅₉	12.5	0.15	20000226	215.61263	167.98751	350.47469	19.40422	0.0815630	3.1212210	59	1	145 days	0.57	M-v	4	Williams	38079	1999 RF ₁₅₉
1999 RV ₁₅₉	14.0	0.15	20000226	9.51152	8.69187	2.83895	11.23076	0.0783122	2.8746379	37	1	62 days	0.51	M-v	5	Williams	38079	1999 RV ₁₅₉
1999 RY ₁₅₉	14.9	0.15	20000226	4.42853	259.15797	138.07844	7.57546	0.1562772	2.4267828	42	1	93 days	0.55	M-v	5	Williams	38079	1999 RY ₁₅₉
1999 RC ₁₆₀	14.8	0.15	20000226	18.87253	9.43432	2.25325	14.00932	0.2271254	2.7342340	56	1	66 days	0.66	M-v	4	Williams	38079	1999 RC ₁₆₀
1999 RD ₁₆₀	14.6	0.15	20000226	86.02779	267.93372	22.22156	7.47843	0.1830964	2.3001966	52	2	1998–1999	0.48	M-v	4	Williams	37299	1999 RD ₁₆₀
1999 RN ₁₆₀	13.3	0.15	20000226	342.11455	40.42312	13.41517	9.33933	0.1566930	2.8061011	66	3	1992–2000	0.50	M-v	2	Williams	38079	1999 RN ₁₆₀
1999 RO ₁₆₀	13.0	0.15	20000226	117.96828	238.77826	13.73892	9.97530	0.0530689	2.9836632	45	2	1989–1999	0.64	M-v	5	Williams	37299	1999 RO ₁₆₀
1999 RS ₁₆₀	15.2	0.15	20000226	75.98461	242.73557	56.96613	2.94454	0.2076868	2.3743228	44	3	1991–1999	0.61	M-v	3	Williams	39312	1999 RS ₁₆₀
1999 RW ₁₆₀	15.2	0.15	20000226	30.79772	350.70197	8.62324	1.49320	0.1958020	2.9648288	41	2	1994–1999	0.49	M-v	4	Williams	39312	1999 RW ₁₆₀
1999 RM ₁₆₁	14.7	0.15	20000226	352.77211	73.56973	327.72880	13.97055	0.1203920	2.6081765	53	2	1997–1999	0.52	M-v	3	Williams	38079	1999 RM ₁₆₁
1999 RO ₁₆₁	13.2	0.15	20000226	44.65086	184.18668	134.76266	1.84900	0.1647631	3.1313160	72	2	1998–1999	0.56	M-v	3	Williams	38079	1999 RO ₁₆₁
1999 RL ₁₆₂	15.8	0.15	20000226	47.57621	313.03904	29.74973	10.16054	0.2600623	2.8065847	46	1	64 days	0.52	M-v	4	Williams	38079	1999 RL ₁₆₂
1999 RN ₁₆₂	13.3	0.15	20000226	15.09500	4.50096	27.48638	13.92795	0.1319769	2.8674723	108	3	1991–2000	0.48	M-v	2	Williams	38079	1999 RN ₁₆₂
1999 RO ₁₆₂	13.6	0.15	20000226	20.07628	351.73674	36.34697	9.96591	0.1641350	2.7905787	78	1	121 days	0.60	M-v	3	Williams	38079	1999 RO ₁₆₂
1999 RR ₁₆₂	14.8	0.15	20000226	57.57376	352.02416	333.32980	13.23252	0.2028272	2.5421153	43	1	75 days	0.44	M-v	4	Williams	38804	1999 RR ₁₆₂
1999 RS ₁₆₂	14.3	0.15	20000226	68.48598	339.28695	321.45875	9.13964	0.2216067	2.7822633	48	2	1998–1999	0.57	M-v	3	Williams	37299	1999 RS ₁₆₂
1999 RZ ₁₆₂	14.0	0.15	20000226	60.53457	104.85323	204.77009	6.93621	0.1078889	3.1436600	31	1	70 days	0.43	M-v	5	Williams	38079	1999 RZ ₁₆₂
1999 RD ₁₆₃	14.3	0.15	20000226	21.62668	71.43622	295.33092	4.45213	0.1343404	2.7499350	52	1	89 days	0.56	M-v	4	Williams	38079	1999 RD ₁₆₃
1999 RF ₁₆₃	15.3	0.15	20000226	56.64734	132.81884	187.46159	9.26342	0.1585885	2.7293509	35	2	1998–1999	0.76	M-v	4	Williams	39313	1999 RF ₁₆₃
1999 RH ₁₆₃	14.2	0.15	20000226	11.99692	51.14142	327.35499	8.80105	0.0346558	2.5346468	39	3	1991–1999	0.39	M-v	4	Williams	38079	1999 RH ₁₆₃
1999 RO ₁₆₃	14.9	0.15	20000226	92.38151	25.69084	247.01641	3.00683	0.2099045	2.5923899	48	2	1998–1999	0.71	M-v	4	Williams	36456	1999 RO ₁₆₃
1999 RP ₁₆₃	14.9	0.15	20000226	94.04251	81.48900	192.08601	5.25186	0.2607664	2.3140579	58	1	107 days	0.47	M-v	4	Williams	37299	1999 RP ₁₆₃
1999 RU ₁₆₃	14.8	0.15	20000226	46.50205	9.05699	323.57940	4.29699	0.1625537	2.7717317	65	3	1993–1999	0.73	M-v	3	Williams	38079	1999 RU ₁₆₃
1999 RY ₁₆₃	15.4	0.15	20000226	350.34830	186.86642	237.40213	1.36453	0.203012	2.3476670	31	1	68 days	0.39	M-v	5	Williams	36920	1999 RY ₁₆₃
1999 RZ ₁₆₃	14.1	0.15	20000226	356.80518	225.83721	169.02210	13.64557	0.1416635	2.8438283	58	2	1992–1999	0.62	M-v	3	Williams	38079	1999 RZ ₁₆₃
1999 RW ₁₆₄	15.0	0.15	20000226	101.35570	323.61765	318.43911	6.17457	0.1053423	2.3910226	68	2	1998–1999	0.53	M-v	3	Williams	37299	1999 RW ₁₆₄
1999 RX ₁₆₄	14.4	0.15	20000226	345.77012	208.20106	192.75422	9.55843	0.0975857	3.2130567	36	2	1994–1999	0.59	M-v	4	Williams	39313	1999 RX ₁₆₄
1999 RF ₁₆₅	16.0	0.15	20000226	9.24288	186.14659	213.71955	3.54748	0.1284532	2.2440947	48	2	1998–1999	0.56	M-v	4	Williams	36920	1999 RF ₁₆₅
1999 RG ₁₆₅	13.4	0.15	20000226	117.45661	268.87008	338.39218	15.00061	0.1334293	3.1245419	46	3	1989–1999	0.60	M-v	2	Williams	38079	1999 RG ₁₆₅
1999 RL ₁₆₅	15.1	0.15	19990919	282.52717	116.71342	339.17641	13.23503	0.2324568	2.6229246	21	1	24 days	0.68			Williams		1999 RL ₁₆₅
1999 RR ₁₆₅	13.5	0.15	20000226	40.24797	0.21969	339.52753	5.24218	0.0419943	3.0193576	52	1	94 days	0.51	M-v	4	Williams	38079	1999 RR ₁₆₅
1999 RS ₁₆₅	15.1	0.15	20000226	318.05744	284.70207	172.98504	1.83338	0.1842516	2.3507282	41	2	1990–1999	0.51	M-v	4	Williams	36831	1999 RS ₁₆₅
1999 RY ₁₆₆	14.4	0.15	20000226	108.41074	230.56378	40.97925	6.19332	0.1376712	2.2396832	41	1	122 days	0.53	M-v	4	Williams	38804	1999 RY ₁₆₆
1999 RB ₁₆₇	14.5	0.15	20000226	12.44305	6.28786	19.77539	9.41963	0.1489601	2.4663706	34	1	67 days	0.56	M-v	5	Williams	38804	1999 RB ₁₆₇
1999 RH ₁₆₇	16.1	0.15	20000226	32.32084	327.47437	45.17980	3.50572	0.3082215	2.3637277	55	1	176 days	0.63	M-v	4	Williams	38079	1999 RH ₁₆₇
1999 RO ₁₆₇	13.6	0.15	20000226	337.62004	36.05236	16.10647	9.84581	0.1090000	2.9820934	46	2	1997–1999	0.55	M-v	3	Williams	37299	1999 RO ₁₆₇
1999 RQ ₁₆₇	15.2	0.15	20000226	354.17524	39.11986	20.45866	5.85027	0.1915423	2.3348111	47	1	95 days	0.64	M-v	4	Williams	38079	1999 RQ ₁₆₇
1999 RX ₁₆₇	14.6	0.15	19990919	45.17153	123.65527	163.45542	13.61389	0.1892740	2.7102677	27	1	34 days	0.47			Williams		1999 RX ₁₆₇
1999 RY ₁₆₇	13.8	0.15	20000226	92.06868	112.31477	160.29971	11.13015	0.1188034	3.1760826	34	2	1998–1999	0.64	M-v	3	Williams	36457	1999 RY ₁₆₇
1999 RZ ₁₆₇	15.2	0.15	20000226	11.66737	35.43933	357.17869	8.14175	0.1137685	2.2922849	56	1	94 days	0.57	M-v	4	Williams	38079	1999 RZ ₁₆₇
1999 RA ₁₆₈	14.6	0.15	20000226	28.63400	10.98027	4.13075	4.96463	0.1673789	2.2854683	77	1	167 days	0.54	M-v	3	Williams	38079	1999 RA ₁₆₈
1999 RF ₁₆₈	15.0	0.15	20000226	117.74704	112.64535	141.86881	2.33634	0.1748786	2.4228408	43	3	1992–1999	0.59	M-v	2	Williams	36458	1999 RF ₁₆₈
1999 RK ₁₆₈	14.3	0.15	20000226	36.76038	344.43705	5.17325	4.55642	0.1742095	2.7035826	75	2	1998–1999	0.57	M-v	3	Williams	38079	1999 RK ₁₆₈
1999 RM ₁₆₈	14.7	0.15	20000226	73.06081	115.08310	169.66876	6.79457	0.2266137	3.0859027	33	4	1988–1999	0.55	M-v	1	Williams	36458	1999 RM ₁₆₈
1999 RO ₁₆₈	14.0	0.15	20000226	25.20014	7.36527	350.33580	1.81083	0.0108771	2.8918881	48	3	1992–1999	0.62	M-v	4	Williams	36458	1999 RO ₁₆₈
1999 RQ ₁₆₈	14.6	0.15	20000226	155.37066	224.72294	354.60286	3.24697	0.1503674	2.5841789	49	3	1991–1999	0.68	M-v	4	Williams	36459	1999 RQ ₁₆₈
1999 RU ₁₆₈	15.0	0.15	20000226	75.07027	146.14479	169.73332	2.89532	0.1304004	2.2459690	77	2	1998–1999	0.57	M-v	3	Williams	38079	1999 RU ₁₆₈
1999 RX ₁₆₈	14.8	0.15	20000226	289.23247	131.66708	335.28596	4.42395	0.0665195	2.6128575	37	3	1996–1999	0.75	M-v	3	Williams	36920	1999 RX ₁₆₈
1999 RZ ₁₆₈	15.4	0.15	20000226	40.13487	26.39636	333.72155	2.31451	0.1517219	2.2883113	67	2	1998–1999	0.61	M-v	3	Williams	37299	1999 RZ ₁₆₈
1999 RC ₁₆₉	15.4	0.15	20000226	56.49965	146.64069	183.88471	2.82156	0.1894714	2.4357258	44	1	119 days	0.57	M-v	4	Williams	37299	1999 RC ₁₆₉
1999 RD ₁₆₉	15.3	0.15	20000226	23.72273	62.35340	315.26584	2.38759	0.2894575	2.6205791	55	1	107 days	0.56	M-v	4	Williams	38079	1999 RD ₁₆₉
1999 RG ₁₆₉	14.3	0.15	20000226	327.23856	103.80621	330.01957	8.09307	0.1386801	2.7988661	40	1	90 days	0.53	M-v	5	Williams	37299	1999 RG ₁₆₉

1999 RH ₁₆₉	15.2	0.15	20000226	87.43596	107.80939	190.94660	5.19791	0.1365074	2.2845202	68	2	1998–1999	0.55	M-v	4	Williams	38079	1999 RH ₁₆₉
1999 RJ ₁₆₉	15.5	0.15	20000226	235.57465	192.58255	330.72805	7.01187	0.0379116	2.2811128	27	2	1998–1999	0.73	M-v	4	Williams	39313	1999 RJ ₁₆₉
1999 RV ₁₆₉	16.3	0.15	20000226	22.62808	92.57300	297.01923	2.24404	0.2135254	2.2812550	47	1	77 days	0.52	M-v	4	Williams	38079	1999 RV ₁₆₉
1999 RW ₁₆₉	16.9	0.15	20000226	48.84010	64.41496	280.43692	1.76195	0.2135610	2.3764994	32	1	74 days	0.64	M-v	4	Williams	38804	1999 RW ₁₆₉
1999 RX ₁₆₉	15.3	0.15	20000226	155.11199	255.32731	338.19426	5.49181	0.1313250	2.1501710	35	2	1998–1999	0.56	M-v	4	Williams	36460	1999 RX ₁₆₉
1999 RH ₁₇₀	15.4	0.15	20000226	87.50293	319.77542	336.89653	3.45866	0.1872201	2.2275738	74	3	1989–1999	0.47	M-v	2	Williams	38079	1999 RH ₁₇₀
1999 RJ ₁₇₀	16.2	0.15	20000226	32.77956	26.75831	342.24192	2.30029	0.1806399	2.3618160	52	3	1981–1999	0.56	M-v	2	Williams	36920	1999 RJ ₁₇₀
1999 RJ ₁₇₁	16.1	0.15	19990919	31.56002	289.86640	20.98457	2.69862	0.1406073	2.3982156	33	1	30 days	0.60			Williams		1999 RJ ₁₇₁
1999 RQ ₁₇₁	15.6	0.15	20000226	47.10975	174.93387	161.05490	12.93439	0.2082918	2.6439799	31	2	1998–1999	0.46	M-v	3	Williams	36460	1999 RQ ₁₇₁
1999 RS ₁₇₁	15.8	0.15	19990830	338.15003	218.81337	152.75155	6.68356	0.1132581	2.3730293	26	1	54 days	0.53			Williams		1999 RS ₁₇₁
1999 RX ₁₇₁	15.2	0.15	20000226	54.92114	315.46687	27.74577	2.66497	0.1340543	2.1945828	57	2	1998–1999	0.56	M-v	3	Williams	37299	1999 RX ₁₇₁
1999 RG ₁₇₂	14.0	0.15	19990830	329.60663	279.01547	102.14791	3.74342	0.0905451	2.7722602	33	1	56 days	0.57			Williams		1999 RG ₁₇₂
1999 RJ ₁₇₂	14.5	0.15	20000226	359.27332	12.25367	20.66577	7.17539	0.1031317	2.7480949	36	1	69 days	0.53	M-v	5	Williams	38079	1999 RJ ₁₇₂
1999 RK ₁₇₂	14.9	0.15	19990919	283.65713	294.30831	147.27524	11.84735	0.1314173	3.0030712	25	1	28 days	0.65			Williams		1999 RK ₁₇₂
1999 RM ₁₇₂	13.9	0.15	20000226	12.55556	257.34121	137.72437	6.11831	0.2569257	2.5593142	52	1	140 days	0.51	M-v	4	Williams	37299	1999 RM ₁₇₂
1999 RO ₁₇₂	14.2	0.15	20000226	343.21042	60.48819	6.59806	11.67491	0.1512805	2.3365315	52	1	105 days	0.49	M-v	4	Williams	38079	1999 RO ₁₇₂
1999 RR ₁₇₃	13.2	0.15	20000226	13.44797	230.84932	141.87958	11.78905	0.1343422	3.0349235	31	1	85 days	0.41	M-v	4	Williams	37299	1999 RR ₁₇₃
1999 RV ₁₇₃	15.0	0.15	20000226	47.83421	331.29996	7.64480	11.07825	0.1427596	2.5596312	50	1	64 days	0.56	M-v	4	Williams	36920	1999 RV ₁₇₃
1999 RP ₁₇₄	13.4	0.15	20000226	144.19593	138.42342	87.22047	2.78565	0.1188288	3.0396820	35	3	1989–1999	0.67	M-v	5	Williams	36920	1999 RP ₁₇₄
1999 RQ ₁₇₄	16.7	0.15	20000226	55.46109	330.36222	3.41775	6.16653	0.2329587	2.3520810	33	1	70 days	0.59	M-v	4	Williams	38804	1999 RQ ₁₇₄
1999 RU ₁₇₄	14.6	0.15	19990919	295.35833	279.05604	161.47035	13.21605	0.2039424	2.7609616	32	1	49 days	0.53			Williams		1999 RU ₁₇₄
1999 RX ₁₇₄	15.0	0.15	20000226	74.60657	171.79293	137.82329	3.32032	0.1122453	2.5184356	28	2	1998–1999	0.69	M-v	4	Williams	36462	1999 RX ₁₇₄
1999 RG ₁₇₅	16.1	0.15	20000226	28.24038	15.71811	354.73720	5.45809	0.1453115	2.4675118	37	1	70 days	0.39	M-v	4	Williams	38079	1999 RG ₁₇₅
1999 RJ ₁₇₅	15.9	0.15	20000226	103.70043	208.53214	63.01629	0.88365	0.1989589	2.3569173	24	3	1994–1999	0.69	M-v	4	Williams	38563	1999 RJ ₁₇₅
1999 RK ₁₇₅	14.5	0.15	20000226	30.84643	155.08217	194.22427	1.46468	0.1740589	3.1934053	56	1	66 days	0.48	M-v	4	Williams	36920	1999 RK ₁₇₅
1999 RT ₁₇₅	17.0	0.15	20000226	26.81647	180.86817	199.50832	3.30667	0.2185710	2.3672948	35	1	68 days	0.41	M-v	4	Williams	38079	1999 RT ₁₇₅
1999 RV ₁₇₅	14.9	0.15	20000226	66.88831	113.41268	188.97504	4.62787	0.2937344	2.5788351	70	5	1982–1999	0.49	M-v	1	Williams	37299	1999 RV ₁₇₅
1999 RZ ₁₇₅	14.5	0.15	20000226	8.37718	201.24980	182.52092	12.12109	0.1696861	3.0613126	56	2	1998–1999	0.53	M-v	3	Williams	37299	1999 RZ ₁₇₅
1999 RF ₁₇₆	14.5	0.15	20000226	82.43087	124.21912	184.75605	11.67805	0.0084126	2.6057048	61	2	1998–1999	0.66	M-v	3	Williams	37299	1999 RF ₁₇₆
1999 RG ₁₇₆	15.9	0.15	20000226	67.82879	21.34306	306.92644	2.18709	0.1905747	2.1589691	85	1	144 days	0.51	M-v	4	Williams	38804	1999 RG ₁₇₆
1999 RH ₁₇₆	15.9	0.15	20000226	82.02185	101.86785	196.54655	4.75585	0.1830971	2.4291141	47	1	65 days	0.40	M-v	5	Williams	38804	1999 RH ₁₇₆
1999 RK ₁₇₆	15.5	0.15	20000226	7.99033	75.98773	314.15736	3.08767	0.1864881	2.9003451	42	1	68 days	0.64	M-v	5	Williams	38804	1999 RK ₁₇₆
1999 RM ₁₇₆	16.1	0.15	20000226	80.13204	345.72831	328.26848	3.17122	0.1471841	2.1759280	52	1	84 days	0.48	M-v	4	Williams	38804	1999 RM ₁₇₆
1999 RP ₁₇₆	15.1	0.15	20000226	357.90427	171.12599	241.83287	1.99388	0.1564196	2.4488474	46	1	66 days	0.36	M-v	5	Williams	38079	1999 RP ₁₇₆
1999 RQ ₁₇₆	15.5	0.15	20000226	313.34407	262.26729	199.10352	4.25201	0.1127285	2.2530693	44	1	68 days	0.52	M-v	5	Williams	38804	1999 RQ ₁₇₆
1999 RX ₁₇₆	15.8	0.15	19990919	345.01499	181.96262	189.58246	3.20038	0.0531919	2.2274846	25	1	35 days	0.52			Williams		1999 RX ₁₇₆
1999 RY ₁₇₆	15.4	0.15	20000226	66.45132	132.00393	191.58137	4.13223	0.0820280	2.5184314	31	3	1995–1999	0.61	M-v	4	Williams	38079	1999 RY ₁₇₆
1999 RC ₁₇₇	14.8	0.15	20000226	124.45092	280.78294	340.43354	3.57752	0.0552444	2.6044103	51	3	1996–1999	0.63	M-v	3	Williams	38804	1999 RC ₁₇₇
1999 RE ₁₇₇	16.3	0.15	20000226	14.89791	52.78627	340.98365	1.83369	0.1935713	2.4359067	35	1	66 days	0.52	M-v	5	Williams	38079	1999 RE ₁₇₇
1999 RG ₁₇₇	14.6	0.15	20000226	54.39065	64.07187	274.41858	0.59379	0.0254558	2.5419526	79	3	1997–1999	0.62	M-v	3	Williams	38079	1999 RG ₁₇₇
1999 RJ ₁₇₇	13.9	0.15	20000226	47.42672	339.47870	355.01097	11.64168	0.0636354	3.0358026	56	1	94 days	0.50	M-v	4	Williams	38804	1999 RJ ₁₇₇
1999 RO ₁₇₇	15.7	0.15	20000226	30.94352	206.41000	164.45439	4.58710	0.1654980	2.3974259	50	2	1998–1999	0.71	M-v	4	Williams	37299	1999 RO ₁₇₇
1999 RR ₁₇₇	15.7	0.15	20000226	67.11410	183.13902	129.88878	1.88666	0.1725814	2.5615255	28	2	1995–1999	0.52	M-v	5	Williams	36464	1999 RR ₁₇₇
1999 RY ₁₇₇	16.5	0.15	19990830	23.47666	147.60598	161.47156	9.81856	0.2185881	2.2715515	29	1	44 days	0.56			Williams		1999 RY ₁₇₇
1999 RA ₁₇₈	15.2	0.15	20000226	71.01621	144.45434	162.00546	11.28454	0.2026659	2.5387848	42	2	1998–1999	0.61	M-v	4	Williams	37299	1999 RA ₁₇₈
1999 RH ₁₇₈	15.9	0.15	20000226	105.61473	123.44232	150.79752	6.10604	0.1659384	2.3070098	30	3	1992–1999	0.68	M-v	3	Williams	36464	1999 RH ₁₇₈
1999 RK ₁₇₈	13.2	0.15	19990919	314.44010	241.47887	161.31823	15.88020	0.0470669	3.1703835	31	1	30 days	0.53			Williams		1999 RK ₁₇₈
1999 RM ₁₇₈	17.0	0.15	19990919	3.17831	195.93637	153.19395	6.64341	0.1711882	2.2522694	21	1	28 days	0.49			Williams		1999 RM ₁₇₈
1999 RN ₁₇₈	15.7	0.15	20000226	29.05325	222.36043	149.56742	5.30188	0.3826792	2.6612218	48	1	151 days	0.63	M-v	4	Williams	38080	1999 RN ₁₇₈
1999 RU ₁₇₈	15.0	0.15	20000226	72.64542	153.99190	147.93431	9.15081	0.2052386	2.5494076	37	1	117 days	0.50	M-v	4	Williams	38080	1999 RU ₁₇₈
1999 RB ₁₇₉	15.9	0.15	19990919	345.49288	234.82783	136.31613	6.99509	0.1284527	2.3519282	18	1	26 days	0.60			Williams		1999 RB ₁₇₉
1999 RC ₁₇₉	14.3	0.15	20000226	313.89204	50.11913	44.57423	5.15599	0.1246589	2.3888293	39	1	144 days	0.47	M-v	4	Williams	37299	1999 RC ₁₇₉
1999 RF ₁₇₉	14.1	0.15	20000226	213.80240	143.36057	34.83124	6.31925	0.0980027	2.4265487	63	4	1988–1999	0.58	M-v	3	Williams	38563	1999 RF ₁₇₉

1999 RM ₁₇₉	15.8	0.15	20000226	17.36073	341.56539	46.63217	5.19906	0.1312024	2.2896726	33	2	1998–1999	0.48	M-v	4	Williams	36465	1999 RM ₁₇₉
1999 RW ₁₇₉	15.4	0.15	20000226	48.76801	203.18696	139.56334	10.43411	0.1617384	2.4262857	34	1	117 days	0.62	M-v	4	Williams	38804	1999 RW ₁₇₉
1999 RK ₁₈₀	15.6	0.15	20000226	56.15128	236.51236	103.47142	5.37026	0.1975225	2.2231833	37	3	1979–1999	0.60	M-v	3	Williams	38563	1999 RK ₁₈₀
1999 RM ₁₈₀	14.5	0.15	20000226	183.32474	86.13228	120.90223	7.06927	0.0725868	2.3802447	27	3	1989–1999	0.41	M-v	3	Williams	36465	1999 RM ₁₈₀
1999 RW ₁₈₀	15.8	0.15	20000226	65.10055	273.36716	47.84502	3.42667	0.1884853	2.3802304	34	1	71 days	0.53	M-v	5	Williams	38080	1999 RW ₁₈₀
1999 RY ₁₈₀	13.5	0.15	20000226	55.47590	312.58890	359.73189	16.61676	0.2107915	3.1214231	65	1	87 days	0.59	M-v	4	Williams	38080	1999 RY ₁₈₀
1999 RC ₁₈₁	16.1	0.15	19990919	287.49075	323.56522	111.45583	2.41055	0.0761568	2.2686121	24	1	30 days	0.63			Williams		1999 RC ₁₈₁
1999 RK ₁₈₁	14.6	0.15	20000226	325.15925	74.73141	9.41583	5.74163	0.1196055	2.4499127	52	1	117 days	0.59	M-v	4	Williams	38080	1999 RK ₁₈₁
1999 RM ₁₈₁	15.3	0.15	20000226	123.37658	123.94140	136.38120	1.70694	0.1610788	2.2262700	51	2	1998–1999	0.59	M-v	4	Williams	37300	1999 RM ₁₈₁
1999 RT ₁₈₁	14.5	0.15	20000226	55.70464	175.35919	153.88999	4.88778	0.0985791	2.7804552	56	4	1995–1999	0.67	M-v	1	Williams	38080	1999 RT ₁₈₁
1999 RF ₁₈₂	15.5	0.15	20000226	71.78676	321.05272	350.42291	4.49590	0.1863721	2.4457957	76	3	1994–1999	0.62	M-v	3	Williams	38804	1999 RF ₁₈₂
1999 RG ₁₈₂	15.2	0.15	20000226	61.08375	151.60502	176.27566	2.66126	0.1793176	2.4187123	73	3	1994–1999	0.60	M-v	2	Williams	37300	1999 RG ₁₈₂
1999 RH ₁₈₂	14.4	0.15	20000226	24.39961	190.08973	173.45527	11.16264	0.1033179	2.9685848	49	3	1989–1999	0.74	M-v	3	Williams	36466	1999 RH ₁₈₂
1999 RN ₁₈₂	16.6	0.15	20000226	85.34639	330.40315	323.88890	1.67288	0.2076434	2.3690414	28	1	86 days	0.57	M-v	5	Williams	38804	1999 RN ₁₈₂
1999 RS ₁₈₂	16.0	0.15	20000226	41.05216	95.73854	262.29796	1.04572	0.2246952	2.4085346	73	1	107 days	0.52	M-v	3	Williams	38080	1999 RS ₁₈₂
1999 RT ₁₈₂	14.8	0.15	20000226	343.72333	225.30281	193.32517	5.20324	0.1696190	3.0841150	44	1	70 days	0.51	M-v	5	Williams	38080	1999 RT ₁₈₂
1999 RX ₁₈₂	15.0	0.15	20000226	350.11327	232.51317	187.54001	2.83033	0.1567727	2.5681259	68	1	107 days	0.63	M-v	4	Williams	37300	1999 RX ₁₈₂
1999 RA ₁₈₃	13.0	0.15	20000226	21.88531	4.46311	357.26275	21.42114	0.0307167	3.2247899	62	1	81 days	0.53	M-v	4	Williams	37300	1999 RA ₁₈₃
1999 RD ₁₈₃	13.8	0.15	20000226	84.76677	230.84158	55.22146	1.87692	0.1376974	3.1339235	46	2	1998–1999	0.72	M-v	4	Williams	38564	1999 RD ₁₈₃
1999 RH ₁₈₃	14.0	0.15	20000226	322.51789	274.97778	166.68050	10.92060	0.1363630	2.8755770	48	2	1994–1999	0.56	M-v	4	Williams	37300	1999 RH ₁₈₃
1999 RM ₁₈₃	15.2	0.15	20000226	30.15897	7.55517	3.56749	6.55329	0.1340114	2.3960871	68	1	117 days	0.49	M-v	3	Williams	38080	1999 RM ₁₈₃
1999 RP ₁₈₃	13.2	0.15	20000226	118.64952	98.03227	164.04605	13.91464	0.0196907	3.1945492	40	3	1993–1999	0.52	M-v	2	Williams	37300	1999 RP ₁₈₃
1999 RS ₁₈₃	14.2	0.15	20000226	216.70324	88.75613	88.13875	2.53906	0.0751848	2.5591491	44	2	1998–1999	0.54	M-v	5	Williams	37300	1999 RS ₁₈₃
1999 RE ₁₈₄	15.9	0.15	20000226	55.00553	190.40506	153.33988	8.25298	0.1181021	2.2688769	42	2	1998–1999	0.71	M-v	4	Williams	36467	1999 RE ₁₈₄
1999 RL ₁₈₄	15.1	0.15	20000226	95.00927	158.00017	136.81133	6.15609	0.1336000	2.0987669	49	2	1998–1999	0.56	M-v	4	Williams	37300	1999 RL ₁₈₄
1999 RU ₁₈₄	17.4	0.15	20000226	45.23399	333.99481	20.56303	6.89851	0.2428997	2.3026922	22	1	65 days	0.44	M-v	4	Williams	38080	1999 RU ₁₈₄
1999 RX ₁₈₄	14.0	0.15	20000226	55.32243	276.20860	53.52982	5.55833	0.1059436	2.6734476	49	3	1982–1999	0.61	M-v	3	Williams	38804	1999 RX ₁₈₄
1999 RZ ₁₈₄	13.7	0.15	20000226	352.50533	260.87032	140.12046	11.04012	0.1138367	2.9885924	23	2	1998–1999	0.45	M-v	4	Williams	37300	1999 RZ ₁₈₄
1999 RN ₁₈₇	14.6	0.15	20000226	22.66485	344.18836	21.61735	5.81336	0.0970394	2.7395715	57	1	69 days	0.54	M-v	4	Williams	38080	1999 RN ₁₈₇
1999 RR ₁₈₇	14.5	0.15	20000226	39.18199	290.51292	52.71631	2.49416	0.0911555	2.9134584	24	2	1992–1999	0.43	M-v	4	Williams	36921	1999 RR ₁₈₇
1999 RX ₁₈₇	14.2	0.15	20000226	254.40956	216.31807	286.66154	1.07583	0.1296360	2.7994735	42	2	1994–1999	0.64	M-v	5	Williams	38804	1999 RX ₁₈₇
1999 RV ₁₈₈	15.8	0.15	19990919	295.71348	268.71261	165.84938	14.36510	0.1442634	2.5356128	15	1	26 days	0.35			Williams		1999 RV ₁₈₈
1999 RY ₁₈₈	17.5	0.15	20000226	51.34540	345.64776	2.46557	4.79172	0.2312882	2.2401627	36	1	71 days	0.47	M-v	4	Williams	38804	1999 RY ₁₈₈
1999 RQ ₁₈₉	13.9	0.15	20000226	311.74830	325.04309	116.51528	4.65963	0.0813407	3.0326786	39	4	1989–1999	0.73	M-v	2	Williams	36469	1999 RQ ₁₈₉
1999 RY ₁₈₉	17.2	0.15	20000226	41.91162	22.78733	332.98466	1.89046	0.1990257	2.3903240	21	1	68 days	0.55	M-v	4	Williams	38804	1999 RY ₁₈₉
1999 RE ₁₉₀	13.5	0.15	20000226	309.70726	232.29535	235.12025	7.15177	0.2051449	2.5375369	54	2	1987–1999	0.52	M-v	4	Williams	38080	1999 RE ₁₉₀
1999 RF ₁₉₀	16.2	0.15	20000226	26.64457	21.71151	0.74655	4.64039	0.1112041	2.2023596	45	1	68 days	0.54	M-v	5	Williams	38080	1999 RF ₁₉₀
1999 RO ₁₉₀	15.1	0.15	20000226	18.24797	28.60252	13.08399	6.46685	0.1412641	2.4588347	84	1	91 days	0.56	M-v	4	Williams	38080	1999 RO ₁₉₀
1999 RQ ₁₉₀	14.3	0.15	20000226	14.51169	172.38066	202.04515	11.33231	0.1428262	3.0476199	40	1	94 days	0.63	M-v	4	Williams	37300	1999 RQ ₁₉₀
1999 RS ₁₉₀	16.2	0.15	20000226	81.18685	23.00290	274.67835	1.60061	0.2112300	2.3603928	51	1	84 days	0.61	M-v	5	Williams	38080	1999 RS ₁₉₀
1999 RZ ₁₉₀	15.9	0.15	20000226	51.24810	250.12301	68.67687	3.08380	0.3271807	2.6354295	49	2	1998–1999	0.60	M-v	4	Williams	38080	1999 RZ ₁₉₀
1999 RN ₁₉₁	16.8	0.15	19990830	359.18797	230.32066	112.37674	3.17590	0.2419204	2.3603057	46	1	54 days	0.60			Williams		1999 RN ₁₉₁
1999 RA ₁₉₂	13.7	0.15	20000226	128.85949	296.59429	332.30567	12.79095	0.1509600	2.5955767	63	2	1990–1999	0.58	M-v	4	Williams	38080	1999 RA ₁₉₂
1999 RF ₁₉₂	13.5	0.15	20000226	28.72285	331.54808	14.77779	10.53113	0.1237807	3.0360137	50	1	81 days	0.58	M-v	4	Williams	38080	1999 RF ₁₉₂
1999 RC ₁₉₃	15.6	0.15	20000226	43.38691	334.03848	21.90398	5.55090	0.2012103	2.2385965	67	1	119 days	0.38	M-v	3	Williams	38080	1999 RC ₁₉₃
1999 RD ₁₉₃	14.6	0.15	19990919	329.44924	295.67977	101.59405	8.91433	0.1312860	2.7990006	17	1	28 days	0.34			Williams		1999 RD ₁₉₃
1999 RG ₁₉₃	12.8	0.15	20000226	282.92851	9.22291	106.08044	10.84877	0.0620947	3.0921585	46	2	1998–1999	0.66	M-v	4	Williams	38080	1999 RG ₁₉₃
1999 RL ₁₉₃	15.7	0.15	20000226	53.82505	155.43279	180.50987	11.54237	0.0910647	3.1065211	31	2	1977–1999	0.66	M-v	5	Williams	36471	1999 RL ₁₉₃
1999 RQ ₁₉₃	14.7	0.15	20000226	112.17068	158.68824	132.59886	5.66549	0.1925408	2.3345287	68	2	1998–2000	0.56	M-v	4	Williams	38080	1999 RQ ₁₉₃
1999 RR ₁₉₃	13.0	0.15	20000226	346.30267	263.00991	167.56012	10.28939	0.0703276	3.5162920	43	1	118 days	0.55	M-v	4	Williams	38080	1999 RR ₁₉₃
1999 RS ₁₉₃	15.7	0.15	20000226	2.40893	202.32076	213.56109	4.32225	0.2244711	2.3786996	41	1	91 days	0.53	M-v	4	Williams	38080	1999 RS ₁₉₃
1999 RU ₁₉₃	14.0	0.15	20000226	35.51741	12.17872	333.61374	13.06848	0.1488407	3.1428728	60	2	1960–1999	0.60	M-v	3	Williams	38080	1999 RU ₁₉₃
1999 RV ₁₉₃	14.0	0.15	20000226	357.29458	187.80682	221.47358	5.31197	0.1696169	2.6479963	77	2	1995–1999	0.53	M-v	3	Williams	38080	1999 RV ₁₉₃

1999 RX ₁₉₃	15.1	0.15	20000226	61.44847	8.22074	323.71588	6.99327	0.1942943	2.3026834	50	1	175 days	0.53	M-v	3	Williams	38080	1999 RX ₁₉₃
1999 RY ₁₉₃	13.5	0.15	20000226	21.31640	94.22383	272.68069	4.83050	0.1478794	3.1243679	55	1	116 days	0.48	M-v	3	Williams	37300	1999 RY ₁₉₃
1999 RA ₁₉₄	14.1	0.15	20000226	2.72202	132.20852	263.00937	3.78129	0.1764532	3.0803812	47	2	1996–1999	0.54	M-v	3	Williams	37300	1999 RA ₁₉₄
1999 RB ₁₉₄	14.7	0.15	20000226	354.82005	144.67378	277.50681	3.37819	0.2257825	2.5983338	51	1	117 days	0.56	M-v	4	Williams	38080	1999 RB ₁₉₄
1999 RD ₁₉₄	14.6	0.15	20000226	173.79331	4.67622	216.63559	5.52105	0.1066282	2.2210815	81	3	1995–1999	0.63	M-v	3	Williams	38080	1999 RD ₁₉₄
1999 RE ₁₉₄	12.8	0.15	20000226	273.34743	183.85904	301.62147	5.34714	0.0970271	2.9111545	48	3	1975–1999	0.74	M-v	2	Williams	37300	1999 RE ₁₉₄
1999 RG ₁₉₄	14.9	0.15	20000226	53.63460	114.06570	202.43629	6.67710	0.3107139	2.8715565	59	3	1993–1999	0.60	M-v	2	Williams	38080	1999 RG ₁₉₄
1999 RH ₁₉₄	14.4	0.15	20000226	62.49396	34.94575	291.37680	3.86047	0.1145637	2.6055404	40	1	116 days	0.50	M-v	4	Williams	38080	1999 RH ₁₉₄
1999 RK ₁₉₄	14.8	0.15	20000226	24.77470	155.83920	223.78054	3.54220	0.2502620	2.6072578	78	2	1978–1999	0.54	M-v	3	Williams	38080	1999 RK ₁₉₄
1999 RM ₁₉₄	15.1	0.15	20000226	62.99140	6.36218	328.33450	5.66096	0.1801087	2.2469582	55	2	1998–1999	0.65	M-v	4	Williams	39314	1999 RM ₁₉₄
1999 RN ₁₉₄	15.2	0.15	20000226	348.86985	184.07044	251.33197	3.45325	0.1981303	2.3505944	51	2	1990–1999	0.80	M-v	4	Williams	38080	1999 RN ₁₉₄
1999 RO ₁₉₄	13.7	0.15	20000226	44.68792	131.83870	214.38009	3.33501	0.1096813	2.8025784	78	3	1994–1999	0.45	M-v	2	Williams	38080	1999 RO ₁₉₄
1999 RQ ₁₉₄	12.7	0.15	20000226	1.27997	66.34310	343.50410	16.19379	0.2549289	2.9955158	65	1	145 days	0.49	M-v	3	Williams	38804	1999 RQ ₁₉₄
1999 RR ₁₉₄	15.0	0.15	20000226	60.08525	58.57203	275.01549	3.44685	0.1969600	2.4099062	57	1	122 days	0.61	M-v	4	Williams	38080	1999 RR ₁₉₄
1999 RS ₁₉₄	12.9	0.15	20000226	6.15324	157.47913	231.53432	5.19831	0.1519329	3.1384892	56	2	1960–1999	0.42	M-v	3	Williams	38080	1999 RS ₁₉₄
1999 RW ₁₉₄	13.8	0.15	20000226	286.63435	225.54021	237.81231	12.29276	0.1575741	2.6819527	33	3	1991–1999	0.85	M-v	4	Williams	36921	1999 RW ₁₉₄
1999 RB ₁₉₅	15.4	0.15	20000226	44.85420	114.02174	237.09914	5.65096	0.2175131	2.3177381	53	3	1992–1999	0.60	M-v	2	Williams	38804	1999 RB ₁₉₅
1999 RC ₁₉₅	13.5	0.15	20000226	358.18722	139.78932	250.63121	7.86915	0.1463465	3.1160764	43	1	93 days	0.51	M-v	4	Williams	37300	1999 RC ₁₉₅
1999 RD ₁₉₅	14.1	0.15	20000226	39.85307	76.65860	264.51390	7.78741	0.1666824	2.7680015	44	1	89 days	0.66	M-v	4	Williams	37300	1999 RD ₁₉₅
1999 RL ₁₉₅	15.0	0.15	20000226	56.85183	23.56601	289.65030	14.26895	0.2038700	3.2190252	25	2	1996–1999	0.40	M-v	4	Williams	38564	1999 RL ₁₉₅
1999 RQ ₁₉₅	13.2	0.15	20000226	299.87016	237.94769	203.47144	15.52567	0.1190668	3.1362151	52	4	1983–1999	0.74	M-v	2	Williams	39314	1999 RQ ₁₉₅
1999 RV ₁₉₅	15.9	0.15	20000226	22.53765	124.06153	253.50242	8.09792	0.4016767	2.7667472	47	1	118 days	0.46	M-v	4	Williams	38080	1999 RV ₁₉₅
1999 RZ ₁₉₅	15.4	0.15	20000226	41.98844	115.00757	240.89271	5.80235	0.1512778	2.2825049	55	2	1998–1999	0.69	M-v	4	Williams	37300	1999 RZ ₁₉₅
1999 RF ₁₉₆	14.3	0.15	20000226	29.09821	164.66234	196.41172	14.98588	0.1440448	2.6159387	45	2	1998–1999	0.52	M-v	3	Williams	38080	1999 RF ₁₉₆
1999 RJ ₁₉₆	12.7	0.15	20000226	145.13061	251.94326	337.21891	18.46391	0.1015622	3.2412565	27	2	1993–1999	0.52	M-v	5	Williams	37300	1999 RJ ₁₉₆
1999 RK ₁₉₆	13.4	0.15	20000226	127.57391	292.70461	305.86656	7.24678	0.2258177	2.7407833	45	3	1993–1999	0.64	M-v	3	Williams	38564	1999 RK ₁₉₆
1999 RL ₁₉₆	12.8	0.15	20000226	277.20088	164.44812	312.85168	8.20780	0.0787078	3.0084943	46	4	1986–1999	0.60	M-v	2	Williams	38564	1999 RL ₁₉₆
1999 RS ₁₉₆	13.0	0.15	20000226	156.42443	8.61515	215.42354	8.97823	0.0328747	2.9935889	51	4	1982–1999	0.69	M-v	3	Williams	38080	1999 RS ₁₉₆
1999 RT ₁₉₆	14.4	0.15	20000226	350.69781	149.15429	265.83881	6.32633	0.0939744	2.2909299	50	3	1989–1999	0.63	M-v	3	Williams	38804	1999 RT ₁₉₆
1999 RU ₁₉₆	13.3	0.15	20000226	297.15402	217.10892	225.64706	9.56936	0.0319305	3.0104556	43	3	1982–1999	0.73	M-v	3	Williams	38080	1999 RU ₁₉₆
1999 RX ₁₉₆	13.9	0.15	20000226	62.11991	91.00707	217.24235	12.84064	0.1960414	2.9282751	70	2	1998–1999	0.62	M-v	3	Williams	38080	1999 RX ₁₉₆
1999 RB ₁₉₇	12.4	0.15	20000226	212.52092	211.49595	322.78654	12.30576	0.0763214	2.9748367	45	4	1971–2000	0.75	M-v	2	Williams	38564	1999 RB ₁₉₇
1999 RC ₁₉₇	14.1	0.15	20000226	113.18092	339.06878	286.85608	6.02092	0.1133115	2.7118272	39	4	1994–1999	0.56	M-v	1	Williams	38080	1999 RC ₁₉₇
1999 RG ₁₉₇	14.7	0.15	20000226	58.12591	137.37567	198.51117	12.30544	0.0955736	2.4649892	93	2	1998–1999	0.61	M-v	3	Williams	38080	1999 RG ₁₉₇
1999 RH ₁₉₇	15.8	0.15	20000226	63.37152	99.35512	233.32046	5.15823	0.2284596	2.1953019	62	2	1960–1999	0.62	M-v	3	Williams	37820	1999 RH ₁₉₇
1999 RK ₁₉₇	14.1	0.15	20000226	269.90893	226.46289	271.94454	4.68581	0.1083176	2.3981758	44	1	133 days	0.61	M-v	4	Williams	37300	1999 RK ₁₉₇
1999 RL ₁₉₇	12.4	0.15	20000226	311.20480	192.08276	254.47479	8.57664	0.0711560	3.0628040	78	3	1989–1999	0.65	M-v	3	Williams	38080	1999 RL ₁₉₇
1999 RO ₁₉₇	14.3	0.15	20000226	329.51054	150.35828	296.04143	5.99953	0.0804808	2.2754476	61	1	168 days	0.51	M-v	4	Williams	38081	1999 RO ₁₉₇
1999 RQ ₁₉₇	14.1	0.15	19990919	62.78314	285.47518	337.70373	24.93991	0.2435245	3.2092104	21	1	34 days	0.87			Williams		1999 RQ ₁₉₇
1999 RR ₁₉₇	15.0	0.15	20000226	249.73357	218.59614	293.43279	6.38618	0.1042298	2.3261287	35	1	78 days	0.65	M-v	5	Williams	36567	1999 RR ₁₉₇
1999 RU ₁₉₇	13.4	0.15	20000226	230.51225	304.23377	217.86433	14.00163	0.0482277	2.5867501	69	2	1998–1999	0.51	M-v	3	Williams	38081	1999 RU ₁₉₇
1999 RV ₁₉₇	15.2	0.15	20000226	17.48444	162.04294	227.76717	7.56166	0.1183080	2.2992778	37	1	64 days	0.49	M-v	4	Williams	38081	1999 RV ₁₉₇
1999 RX ₁₉₇	13.1	0.15	20000226	354.89509	134.94083	260.97684	8.24090	0.0980641	3.1687238	58	1	89 days	0.54	M-v	4	Williams	37300	1999 RX ₁₉₇
1999 RZ ₁₉₇	14.1	0.15	19990919	279.30131	138.34810	309.02790	9.15293	0.0730029	3.0674881	21	1	50 days	0.80			Williams		1999 RZ ₁₉₇
1999 RB ₁₉₈	15.4	0.15	20000226	69.05658	13.13616	319.34450	6.57924	0.0986134	2.2607121	42	4	1992–1999	0.78	M-v	2	Williams	36473	1999 RB ₁₉₈
1999 RC ₁₉₈	12.1	0.15	20000226	335.25490	106.70279	333.32514	14.29921	0.2145128	3.1301389	66	1	136 days	0.43	M-v	4	Williams	38804	1999 RC ₁₉₈
1999 RP ₁₉₈	16.5	0.15	19990830	352.24066	34.27464	324.81082	4.17275	0.1672919	2.1612675	42	1	56 days	0.67		D	Williams		1999 RP ₁₉₈
1999 RR ₁₉₈	14.3	0.15	20000226	34.61167	164.69930	202.00645	5.02381	0.2128381	2.4311591	85	2	1998–1999	0.44	M-v	3	Williams	38081	1999 RR ₁₉₈
1999 RT ₁₉₈	13.5	0.15	20000226	324.69295	247.88286	200.96402	21.57243	0.3088023	2.3094673	50	3	1994–1999	0.67	M-v	3	Williams	36832	1999 RT ₁₉₈
1999 RG ₁₉₉	14.6	0.15	20000226	23.34534	38.15053	354.88790	13.02820	0.2703668	2.6458976	58	1	146 days	0.43	M-v	3	Williams	38804	1999 RG ₁₉₉
1999 RM ₁₉₉	14.0	0.15	20000226	57.06319	359.21249	339.82830	10.85068	0.2673776	2.3947627	60	4	1973–1999	0.57	M-v	2	Williams	38804	1999 RM ₁₉₉
1999 RN ₁₉₉	15.3	0.15	20000226	32.96595	112.54916	268.83539	4.09287	0.1651284	2.3353671	56	2	1992–1999	0.45	M-v	3	Williams	38804	1999 RN ₁₉₉
1999 RO ₁₉₉	13.8	0.15	20000226	343.29682	212.82268	228.73614	7.94484	0.2215730	2.7280860	70	1	137 days	0.42	M-v	4	Williams	38804	1999 RO ₁₉₉

1999 RP ₁₉₉	12.8	0.15	20000226	109.89711	341.45627	293.43291	7.09424	0.1335447	2.7307199	88	3	1997–2000	0.53	M-v	2	Williams	38804	1999 RP ₁₉₉
1999 RZ ₁₉₉	14.7	0.15	20000226	22.16691	114.93911	262.47700	11.51291	0.1623198	2.6572166	51	1	117 days	0.50	M-v	3	Williams	38804	1999 RZ ₁₉₉
1999 RG ₂₀₀	14.2	0.15	20000226	14.97393	143.32812	233.82889	12.57009	0.1122337	2.9451200	46	1	90 days	0.54	M-v	4	Williams	38804	1999 RG ₂₀₀
1999 RL ₂₀₀	14.4	0.15	20000226	12.49054	143.22988	246.51223	12.94343	0.1246609	2.5955670	41	2	1998–1999	0.53	M-v	3	Williams	38804	1999 RL ₂₀₀
1999 RY ₂₀₀	14.6	0.15	20000226	12.44567	165.90434	223.77483	15.88089	0.1333021	2.6554905	44	1	60 days	0.48	M-v	4	Williams	38804	1999 RY ₂₀₀
1999 RB ₂₀₁	14.7	0.15	20000226	47.36816	112.65095	233.87702	12.06768	0.1830958	2.5652074	67	3	1991–1999	0.57	M-v	2	Williams	38804	1999 RB ₂₀₁
1999 RL ₂₀₁	14.1	0.15	20000226	359.85024	212.50075	202.87012	18.55907	0.3271962	3.1689028	54	1	138 days	0.48	M-v	3	Williams	38081	1999 RL ₂₀₁
1999 RQ ₂₀₁	14.7	0.15	20000226	350.34250	194.89134	226.41590	12.61998	0.1301816	2.5985449	44	3	1991–1999	0.52	M-v	3	Williams	38804	1999 RQ ₂₀₁
1999 RR ₂₀₁	13.0	0.15	20000226	9.52700	101.41554	294.53581	11.66977	0.1642219	2.7841037	60	1	138 days	0.45	M-v	3	Williams	37301	1999 RR ₂₀₁
1999 RS ₂₀₁	13.5	0.15	20000226	327.88232	199.45515	242.42282	13.43739	0.1778640	3.1611681	48	1	121 days	0.61	M-v	4	Williams	38081	1999 RS ₂₀₁
1999 RT ₂₀₁	14.9	0.15	20000226	70.88221	43.30636	266.64752	10.47599	0.2226487	2.6165865	51	1	105 days	0.50	M-v	4	Williams	36922	1999 RT ₂₀₁
1999 RW ₂₀₁	14.2	0.15	20000226	69.18420	74.86374	239.08298	12.59538	0.1996245	2.6451488	59	3	1978–2000	0.66	M-v	2	Williams	37820	1999 RW ₂₀₁
1999 RE ₂₀₂	13.2	0.15	20000226	341.83447	145.60827	280.57244	9.63207	0.1308038	2.9523736	51	1	123 days	0.54	M-v	4	Williams	38081	1999 RE ₂₀₂
1999 RF ₂₀₂	13.7	0.15	20000226	75.53473	50.50006	258.33688	9.36859	0.1084240	3.0001724	63	2	1998–1999	0.62	M-v	3	Williams	38804	1999 RF ₂₀₂
1999 RJ ₂₀₂	14.3	0.15	20000226	90.75202	10.77822	276.49064	6.72697	0.2220549	2.5442716	61	2	1998–1999	0.61	M-v	4	Williams	38804	1999 RJ ₂₀₂
1999 RQ ₂₀₂	14.7	0.15	20000226	42.69558	41.65870	310.23349	8.22434	0.1698975	2.7369713	48	1	105 days	0.46	M-v	3	Williams	38804	1999 RQ ₂₀₂
1999 RS ₂₀₂	13.7	0.15	20000226	74.70941	70.80120	238.08807	8.78663	0.1145826	3.0304789	61	2	1998–1999	0.54	M-v	3	Williams	38804	1999 RS ₂₀₂
1999 RA ₂₀₄	13.8	0.15	20000226	328.24311	111.36628	347.54353	28.06313	0.2303166	2.6477261	53	1	89 days	0.53	M-v	4	Williams	38081	1999 RA ₂₀₄
1999 RF ₂₀₄	13.9	0.15	20000226	67.76236	61.41674	255.60214	7.96134	0.1581465	2.8150215	73	2	1998–1999	0.69	M-v	3	Williams	38805	1999 RF ₂₀₄
1999 RQ ₂₀₄	12.7	0.15	20000226	337.83103	145.71703	277.20753	9.58464	0.0570211	3.0651407	64	3	1978–2000	0.53	M-v	2	Williams	38081	1999 RQ ₂₀₄
1999 RY ₂₀₄	14.1	0.15	20000226	14.54783	78.10500	308.26923	15.17588	0.1541678	3.0391755	32	1	114 days	0.44	M-v	3	Williams	38805	1999 RY ₂₀₄
1999 RK ₂₀₅	13.4	0.15	20000226	55.33408	73.99634	253.04240	13.41341	0.1689426	3.2175220	43	1	169 days	0.66	M-v	4	Williams	38081	1999 RK ₂₀₅
1999 RP ₂₀₅	14.8	0.15	20000226	19.70867	179.93939	209.13383	16.98549	0.1821598	2.6221632	87	1	170 days	0.60	M-v	3	Williams	38081	1999 RP ₂₀₅
1999 RR ₂₀₅	13.0	0.15	20000226	351.63161	165.20409	247.48026	10.39884	0.1078243	3.0604560	56	1	168 days	0.54	M-v	4	Williams	38081	1999 RR ₂₀₅
1999 RU ₂₀₅	14.4	0.15	20000226	18.08229	84.41844	295.04419	8.92203	0.0900073	3.0758296	30	2	1995–1999	0.47	M-v	4	Williams	36475	1999 RU ₂₀₅
1999 RW ₂₀₅	14.3	0.15	20000226	166.38377	348.44946	238.96302	8.46074	0.1592612	2.3691036	79	3	1981–1999	0.57	M-v	3	Williams	38805	1999 RW ₂₀₅
1999 RZ ₂₀₅	14.8	0.15	20000226	91.96716	21.85893	284.44837	6.37190	0.1246238	2.2772101	75	2	1998–1999	0.51	M-v	3	Williams	38565	1999 RZ ₂₀₅
1999 RA ₂₀₆	15.1	0.15	20000226	56.53393	22.51054	308.50483	7.41723	0.2139057	2.7359705	43	1	105 days	0.56	M-v	4	Williams	38805	1999 RA ₂₀₆
1999 RB ₂₀₆	15.5	0.15	20000226	18.55003	97.85922	299.80176	6.24062	0.1049534	2.2864145	54	1	88 days	0.64	M-v	4	Williams	38805	1999 RB ₂₀₆
1999 RL ₂₀₆	16.0	0.15	20000226	48.87481	159.30313	199.18235	23.85057	0.1690197	2.2638864	64	1	68 days	0.53	M-v	4	Williams	38081	1999 RL ₂₀₆
1999 RN ₂₀₆	15.0	0.15	20000226	44.55115	128.36536	227.26373	13.96425	0.1225862	2.6057248	47	1	65 days	0.52	M-v	4	Williams	38805	1999 RN ₂₀₆
1999 RQ ₂₀₆	11.9	0.15	20000226	44.71567	84.52230	261.52759	13.91611	0.0778779	3.2376278	42	2	1994–1999	0.54	M-v	4	Williams	38565	1999 RQ ₂₀₆
1999 RR ₂₀₆	15.7	0.15	20000226	32.11209	137.12242	233.69860	11.58606	0.3113756	2.6830031	52	1	116 days	0.56	M-v	3	Williams	38805	1999 RR ₂₀₆
1999 RT ₂₀₆	12.3	0.15	20000226	33.62081	76.80851	284.32504	13.18403	0.1184621	3.1424391	57	1	139 days	0.51	M-v	3	Williams	38081	1999 RT ₂₀₆
1999 RU ₂₀₆	13.3	0.15	20000226	9.88640	110.76472	295.59663	11.75234	0.2154886	2.6803021	78	3	1990–1999	0.56	M-v	2	Williams	38081	1999 RU ₂₀₆
1999 RY ₂₀₆	14.5	0.15	20000226	26.13522	150.27898	230.44098	14.09454	0.1365986	2.6149330	61	2	1998–2000	0.58	M-v	3	Williams	37820	1999 RY ₂₀₆
1999 RC ₂₀₇	14.1	0.15	20000226	354.64187	170.71818	244.01545	11.94273	0.1571578	3.1001313	47	1	89 days	0.52	M-v	4	Williams	38081	1999 RC ₂₀₇
1999 RJ ₂₀₇	14.0	0.15	20000226	7.08607	136.92836	257.25605	9.08534	0.0566002	2.9964261	46	1	121 days	0.63	M-v	4	Williams	38081	1999 RJ ₂₀₇
1999 RP ₂₀₇	15.6	0.15	20000226	28.26163	69.33481	321.23342	8.77026	0.1655687	2.2628447	33	1	89 days	0.44	M-v	4	Williams	38081	1999 RP ₂₀₇
1999 RR ₂₀₇	15.0	0.15	20000226	59.73120	121.46135	222.44007	7.60941	0.1680028	2.2874906	110	3	1992–2000	0.55	M-v	2	Williams	38081	1999 RR ₂₀₇
1999 RX ₂₀₇	15.9	0.15	20000226	14.12334	125.78744	286.66688	5.92241	0.2496423	2.4118674	46	2	1995–1999	0.61	M-v	4	Williams	38565	1999 RX ₂₀₇
1999 RY ₂₀₇	14.9	0.15	20000226	25.70862	180.78268	208.80647	13.89329	0.2655299	2.5208507	76	1	170 days	0.55	M-v	3	Williams	38081	1999 RY ₂₀₇
1999 RA ₂₀₈	13.7	0.15	20000226	145.94629	10.42987	237.42975	11.65301	0.1547436	2.4300907	81	3	1980–2000	0.57	M-v	2	Williams	37820	1999 RA ₂₀₈
1999 RC ₂₀₈	14.6	0.15	20000226	356.07989	189.32040	227.17716	13.79059	0.0836689	2.6087253	51	1	90 days	0.51	M-v	4	Williams	38081	1999 RC ₂₀₈
1999 RG ₂₀₈	15.3	0.15	20000226	39.04527	43.93757	323.82638	13.66052	0.1238254	2.6340153	28	1	67 days	0.60	M-v	4	Williams	38081	1999 RG ₂₀₈
1999 RH ₂₀₈	14.8	0.15	20000226	1.57808	105.33540	319.33408	12.67762	0.2224279	2.6139356	80	1	147 days	0.52	M-v	3	Williams	38805	1999 RH ₂₀₈
1999 RN ₂₀₈	15.8	0.15	20000226	2.90020	185.96907	236.46093	7.44746	0.2207580	2.5246519	36	1	90 days	0.60	M-v	4	Williams	38805	1999 RN ₂₀₈
1999 RS ₂₀₈	15.3	0.15	20000226	62.28413	95.30458	231.79154	7.25377	0.2221115	2.6447743	60	3	1995–1999	0.55	M-v	2	Williams	38805	1999 RS ₂₀₈
1999 RT ₂₀₈	14.0	0.15	20000226	108.71334	58.92345	224.82939	10.45222	0.0709750	2.9670392	45	2	1998–1999	0.62	M-v	4	Williams	38805	1999 RT ₂₀₈
1999 RW ₂₀₈	13.0	0.15	20000226	7.00087	177.33690	233.78521	6.48300	0.2199790	2.7096154	81	1	168 days	0.51	M-v	3	Williams	38805	1999 RW ₂₀₈
1999 RB ₂₀₉	13.4	0.15	20000226	19.12567	63.09172	319.90229	7.61443	0.1660406	3.1511886	67	1	168 days	0.47	M-v	3	Williams	38805	1999 RB ₂₀₉
1999 RC ₂₀₉	15.4	0.15	20000226	31.26832	107.76780	274.68928	4.68400	0.1106357	2.3767006	53	1	82 days	0.60	M-v	4	Williams	38805	1999 RC ₂₀₉
1999 RH ₂₀₉	14.9	0.15	20000226	23.67559	166.31164	209.99743	17.77946	0.1674056	3.1601716	37	1	92 days	0.47	M-v	3	Williams	38805	1999 RH ₂₀₉

1999 RM ₂₀₉	13.6	0.15	20000226	343.97815	160.76066	276.77707	9.79950	0.1975835	3.0775463	58	2	1998–1999	0.57	M-v	3	Williams	38081	1999 RM ₂₀₉
1999 RQ ₂₀₉	13.2	0.15	20000226	20.34377	108.22827	277.95677	9.40624	0.1134809	2.9762584	55	2	1993–1999	0.61	M-v	3	Williams	37301	1999 RQ ₂₀₉
1999 RV ₂₀₉	14.1	0.15	20000226	25.81803	55.53762	323.11088	9.89345	0.1155462	2.9628159	35	1	67 days	0.60	M-v	4	Williams	36922	1999 RV ₂₀₉
1999 RX ₂₀₉	14.0	0.15	20000226	116.33039	294.36776	339.44581	12.90440	0.1774996	2.5628573	65	3	1977–1999	0.56	M-v	2	Williams	38081	1999 RX ₂₀₉
1999 RB ₂₁₀	15.1	0.15	20000226	36.73310	75.19407	304.85651	4.32952	0.2145593	2.3188738	69	1	170 days	0.47	M-v	3	Williams	38805	1999 RB ₂₁₀
1999 RD ₂₁₀	14.7	0.15	20000226	25.20912	73.95719	321.42134	6.09390	0.2278695	2.4360247	50	1	167 days	0.39	M-v	3	Williams	38081	1999 RD ₂₁₀
1999 RJ ₂₁₀	13.4	0.15	20000226	356.50977	92.74322	321.90992	9.39902	0.0943586	2.9837468	44	2	1996–1999	0.51	M-v	3	Williams	39315	1999 RJ ₂₁₀
1999 RK ₂₁₀	14.7	0.15	20000226	38.01001	122.59583	251.83343	7.35759	0.0679266	2.4725468	53	2	1998–1999	0.64	M-v	4	Williams	39315	1999 RK ₂₁₀
1999 RO ₂₁₀	15.8	0.15	20000226	52.88202	97.92122	263.77902	5.77774	0.1713107	2.2157344	41	1	113 days	0.52	M-v	4	Williams	38082	1999 RO ₂₁₀
1999 RX ₂₁₀	13.1	0.15	20000226	99.99981	331.84930	330.23703	11.94296	0.0557872	2.8922936	55	2	1994–1999	0.56	M-v	4	Williams	37301	1999 RX ₂₁₀
1999 RA ₂₁₁	15.1	0.15	20000226	127.98387	348.49558	285.41507	6.31102	0.1197808	2.3839188	36	2	1998–1999	0.68	M-v	4	Williams	39315	1999 RA ₂₁₁
1999 RB ₂₁₁	14.9	0.15	20000226	124.15556	24.52011	241.11159	7.72841	0.2243596	2.4003338	54	2	1998–1999	0.62	M-v	4	Williams	38805	1999 RB ₂₁₁
1999 RD ₂₁₁	14.7	0.15	20000226	254.67163	251.78647	276.55808	5.12723	0.0919595	2.2821369	54	2	1998–1999	0.61	M-v	4	Williams	38805	1999 RD ₂₁₁
1999 RF ₂₁₁	14.2	0.15	20000226	49.69908	71.82191	293.92702	5.07110	0.0494766	2.3524354	76	3	1997–2000	0.56	M-v	2	Williams	38082	1999 RF ₂₁₁
1999 RJ ₂₁₁	13.9	0.15	20000226	266.16802	164.47923	349.20310	12.88933	0.1011805	2.6913460	40	2	1977–1999	0.64	M-v	5	Williams	38082	1999 RJ ₂₁₁
1999 RL ₂₁₁	13.6	0.15	20000226	28.69295	137.32155	238.97085	7.74498	0.1540348	3.0178826	61	2	1978–2000	0.56	M-v	3	Williams	39315	1999 RL ₂₁₁
1999 RM ₂₁₁	13.7	0.15	20000226	227.60401	215.88871	327.06426	9.45581	0.0129380	2.8022791	35	1	83 days	0.47	M-v	4	Williams	38082	1999 RM ₂₁₁
1999 RN ₂₁₁	17.0	0.15	20000226	41.88681	54.54699	306.10090	5.11949	0.3568475	2.5934805	35	1	67 days	0.76	M-v	4	Williams	38082	1999 RN ₂₁₁
1999 RQ ₂₁₁	14.4	0.15	20000226	34.86521	42.63030	331.57099	9.98523	0.2117133	2.7348333	67	1	170 days	0.59	M-v	3	Williams	38082	1999 RQ ₂₁₁
1999 RS ₂₁₁	14.7	0.15	20000226	27.90166	87.30869	298.17456	7.17240	0.2260962	2.7752465	44	1	120 days	0.54	M-v	3	Williams	38805	1999 RS ₂₁₁
1999 RU ₂₁₁	13.0	0.15	20000226	34.38619	27.82428	339.81923	11.80214	0.2010092	3.1416009	71	3	1988–2000	0.54	M-v	2	Williams	38082	1999 RU ₂₁₁
1999 RV ₂₁₁	14.6	0.15	20000226	144.94741	332.43574	292.41909	6.32434	0.0970061	2.2961612	58	2	1998–2000	0.60	M-v	3	Williams	38082	1999 RV ₂₁₁
1999 RA ₂₁₂	13.6	0.15	20000226	303.01175	152.93960	329.46583	10.04717	0.1327454	3.0665266	41	1	123 days	0.64	M-v	5	Williams	38082	1999 RA ₂₁₂
1999 RC ₂₁₂	15.2	0.15	20000226	49.61641	55.37040	306.72827	6.08782	0.2296256	2.4011838	72	1	120 days	0.56	M-v	4	Williams	38082	1999 RC ₂₁₂
1999 RD ₂₁₂	12.5	0.15	20000226	108.62827	316.29879	326.00867	9.71637	0.1595843	3.1993961	55	2	1998–2000	0.58	M-v	3	Williams	37821	1999 RD ₂₁₂
1999 RE ₂₁₂	17.1	0.15	19990919	350.00082	182.21958	201.07870	17.41397	0.3396002	2.6153013	22	1	56 days	0.54			Williams		1999 RE ₂₁₂
1999 RO ₂₁₂	14.2	0.15	20000226	4.16108	173.98202	235.48011	6.30312	0.1383946	2.7536913	78	3	1981–2000	0.52	M-v	2	Williams	38082	1999 RO ₂₁₂
1999 RP ₂₁₂	16.2	0.15	20000226	42.11616	18.22939	339.72171	13.79323	0.2672110	2.6896210	33	2	1990–1999	0.69	M-v	4	Williams	37301	1999 RP ₂₁₂
1999 RA ₂₁₃	14.1	0.15	20000226	325.40148	238.01560	224.79883	11.06668	0.1397284	2.6802367	51	2	1992–2000	0.66	M-v	4	Williams	38805	1999 RA ₂₁₃
1999 RC ₂₁₃	15.4	0.15	20000226	40.83007	54.40913	310.77803	9.09745	0.1180249	2.6297532	30	2	1997–1999	0.43	M-v	4	Williams	36923	1999 RC ₂₁₃
1999 RE ₂₁₃	13.9	0.15	20000226	32.36263	80.79146	264.85472	14.10601	0.0871810	3.0268824	30	1	136 days	0.48	M-v	3	Williams	37301	1999 RE ₂₁₃
1999 RM ₂₁₃	16.4	0.15	20000226	60.37764	16.93926	311.20448	4.06867	0.2438346	3.0219574	29	1	61 days	0.32	M-v	4	Williams	36923	1999 RM ₂₁₃
1999 RP ₂₁₃	15.9	0.15	20000226	343.31698	129.30575	323.41103	6.65478	0.2418550	2.3511546	63	1	68 days	0.56	M-v	5	Williams	38805	1999 RP ₂₁₃
1999 RH ₂₁₄	16.8	0.15	20000226	39.14349	85.08524	279.17498	4.99554	0.1926603	2.3594436	35	1	66 days	0.43	M-v	4	Williams		1999 RH ₂₁₄
1999 RJ ₂₁₄	16.6	0.15	19990919	9.75705	310.83419	18.54861	6.20883	0.3097449	2.5624614	45	1	26 days	0.56			Williams		1999 RJ ₂₁₄
1999 RM ₂₁₄	13.5	0.15	20000226	63.45752	298.79155	29.79265	8.85942	0.1246747	3.0814362	99	3	1992–2000	0.55	M-v	2	Williams	38082	1999 RM ₂₁₄
1999 RN ₂₁₄	13.4	0.15	20000226	359.89145	246.10484	162.89187	5.50967	0.0598966	2.7455896	73	4	1981–2000	0.53	M-v	2	Williams	38082	1999 RN ₂₁₄
1999 RO ₂₁₄	13.2	0.15	20000226	326.98169	84.75456	356.26389	10.81333	0.1240264	3.0274156	70	1	124 days	0.62	M-v	4	Williams	38082	1999 RO ₂₁₄
1999 SE	14.2	0.15	20000226	29.03632	174.10474	195.25121	12.01287	0.2031602	3.1967654	78	1	169 days	0.56	M-v	3	Williams	38082	1999 SE
1999 SG	14.3	0.15	20000226	308.44058	112.02024	8.17447	5.32187	0.1143649	2.3020922	94	1	147 days	0.55	M-v	4	Williams	38082	1999 SG
1999 SH	15.4	0.15	20000226	41.68030	339.70979	17.99175	4.31624	0.2847020	2.6897266	66	1	81 days	0.49	M-v	4	Williams	38082	1999 SH
1999 SJ	15.4	0.15	20000226	92.41382	130.26573	169.64051	2.20768	0.2108296	2.3462165	66	2	1998–1999	0.58	M-v	4	Williams	38082	1999 SJ
1999 SL	13.6	0.15	20000226	17.50146	10.98276	30.71480	8.68472	0.2287663	2.8001396	124	1	112 days	0.49	M-v	3	Williams	38082	1999 SL
1999 SH ₁	15.6	0.15	20000226	34.80525	173.36457	191.97582	9.06199	0.2387751	2.4340337	58	1	94 days	0.61	M-v	4	Williams	38082	1999 SH ₁
1999 SN ₁	12.9	0.15	20000226	220.08946	183.04324	39.43133	14.37825	0.1300226	2.6196983	89	1	136 days	0.53	M-v	3	Williams	38805	1999 SN ₁
1999 SO ₁	13.5	0.15	20000226	343.68040	43.91244	28.04968	6.44024	0.0878875	2.7124041	120	3	1990–2000	0.51	M-v	2	Williams	38082	1999 SO ₁
1999 SP ₁	14.7	0.15	20000226	329.69666	232.84155	213.37788	13.38893	0.2020218	3.1136578	23	2	1994–1999	0.43	M-v	4	Williams	36833	1999 SP ₁
1999 SQ ₁	16.5	0.15	19991009	15.91410	338.44415	14.12346	2.52052	0.2297411	2.6248779	39	1	57 days	0.49			Williams		1999 SQ ₁
1999 SW ₁	12.5	0.15	20000226	338.32316	156.44458	255.83182	16.61388	0.1288481	3.1935894	51	3	1977–1999	0.54	M-v	2	Williams	38805	1999 SW ₁
1999 SZ ₁	15.3	0.15	20000226	107.24273	102.25823	193.65847	23.10896	0.0799422	1.9202621	48	1	67 days	0.47	M-v	4	Williams	38082	1999 SZ ₁
1999 SA ₂	16.0	0.15	20000226	44.71595	168.46957	204.51695	22.05661	0.0827928	1.9221849	52	1	85 days	0.50	M-v	4	Williams	38805	1999 SA ₂
1999 SB ₂	13.7	0.15	20000226	18.93888	118.83384	267.81609	12.59689	0.1994104	2.6409624	56	1	169 days	0.57	M-v	3	Williams	38082	1999 SB ₂
1999 SC ₂	13.8	0.15	20000226	15.72806	196.10600	206.18563	24.11974	0.2477193	2.3709351	81	1	113 days	0.46	M-v	3	Williams	38805	1999 SC ₂

1999 SF ₂	14.5	0.15	20000226	24.39640	270.41510	133.63585	3.35963	0.1830992	2.4282433	75	4	1991–2000	0.53	M-v	2	Williams	38082	1999 SF ₂
1999 SG ₂	13.8	0.15	20000226	270.48824	110.29377	51.41121	9.44798	0.0989469	2.4341414	67	1	76 days	0.59	M-v	4	Williams	38082	1999 SG ₂
1999 SH ₂	15.5	0.15	20000226	34.96870	254.05282	146.18374	2.44700	0.1972695	2.4105183	94	2	1995–2000	0.63	M-v	3	Williams	38805	1999 SH ₂
1999 SJ ₂	14.1	0.15	20000226	23.19575	37.66443	353.94801	13.62767	0.2753450	2.5396724	82	1	171 days	0.51	M-v	3	Williams	38805	1999 SJ ₂
1999 SQ ₂	15.7	0.15	19991009	343.64302	2.23191	28.74674	14.30154	0.1839633	2.6206568	52	1	53 days	0.58			Williams		1999 SQ ₂
1999 SR ₂	15.4	0.15	19990919	279.18161	337.94828	112.26541	7.41649	0.0667058	2.3979201	35	1	36 days	0.53			Williams		1999 SR ₂
1999 SS ₂	14.6	0.15	20000226	19.18898	358.44921	23.22671	18.67760	0.1731364	2.7777783	84	4	1976–1999	0.65	M-v	2	Williams	38083	1999 SS ₂
1999 SU ₂	14.6	0.15	20000226	30.49889	174.29582	195.58270	4.89527	0.1736114	3.1691191	66	2	1993–1999	0.64	M-v	3	Williams	37302	1999 SU ₂
1999 SV ₂	14.3	0.15	20000226	16.11952	37.31763	10.65886	9.26397	0.0607413	2.9666719	56	1	104 days	0.61	M-v	4	Williams	38083	1999 SV ₂
1999 SW ₂	13.7	0.15	20000226	244.13392	153.43525	14.00311	1.39961	0.0868660	2.9515595	83	3	1976–1999	0.48	M-v	4	Williams	37302	1999 SW ₂
1999 SE ₃	13.5	0.15	20000226	80.32596	51.98819	248.81728	23.93721	0.2284004	2.3457886	23	2	1995–1999	0.44	M-v	4	Williams	38565	1999 SE ₃
1999 SF ₃	13.1	0.15	20000226	1.67910	136.24370	291.08450	23.23582	0.2906416	2.4130890	39	2	1991–2000	0.46	M-v	3	Williams	38565	1999 SF ₃
1999 SR ₃	14.5	0.15	20000226	43.34494	46.41265	345.43710	12.92129	0.3360588	2.6335364	36	1	122 days	0.36	M-v	4	Williams	38806	1999 SR ₃
1999 SS ₃	12.0	0.15	20000226	19.80973	78.22314	355.76550	21.63536	0.0923716	3.1681734	59	5	1976–2000	0.68	M-v	2	Williams	38806	1999 SS ₃
1999 SX ₃	15.5	0.15	20000226	61.10690	137.14409	211.98765	1.77933	0.0248927	2.2572337	61	2	1998–1999	0.56	M-v	4	Williams	38083	1999 SX ₃
1999 SY ₃	13.6	0.15	20000226	97.89344	292.95242	351.47065	0.51100	0.1060545	3.2502494	61	4	1993–1999	0.78	M-v	1	Williams	38083	1999 SY ₃
1999 SZ ₃	13.4	0.15	20000226	210.23251	212.58400	336.38817	1.12982	0.0482914	2.9248754	72	3	1997–1999	0.60	M-v	3	Williams	38083	1999 SZ ₃
1999 SB ₄	13.8	0.15	20000226	67.81924	315.03046	3.56337	7.15404	0.1158021	3.1569197	72	3	1980–1999	0.66	M-v	3	Williams	37302	1999 SB ₄
1999 SG ₄	12.8	0.15	20000226	265.47957	109.15513	54.41295	14.28357	0.1176603	2.5783981	64	1	139 days	0.46	M-v	4	Williams	38083	1999 SG ₄
1999 SK ₄	14.8	0.15	20000226	60.33246	154.75232	188.02758	6.68234	0.1162428	2.3812204	81	2	1998–1999	0.54	M-v	3	Williams	37302	1999 SK ₄
1999 SL ₄	13.5	0.15	20000226	2.65876	214.19026	199.29970	4.71874	0.2924011	3.1191309	90	3	1977–2000	0.66	M-v	3	Williams	38083	1999 SL ₄
1999 SO ₄	14.3	0.15	20000226	338.13648	66.45357	18.11731	4.93449	0.0538288	2.3569358	86	1	124 days	0.46	M-v	4	Williams	38083	1999 SO ₄
1999 SP ₄	14.2	0.15	20000226	357.50682	226.94433	199.73510	8.95051	0.1894654	2.7596130	106	3	1976–2000	0.65	M-v	3	Williams	38083	1999 SP ₄
1999 SQ ₄	13.0	0.15	20000226	75.39995	128.72023	201.15525	15.52214	0.0079288	3.1038939	66	2	1997–2000	0.55	M-v	3	Williams	38083	1999 SQ ₄
1999 SR ₄	12.6	0.15	20000226	191.18136	17.99028	198.50098	8.90898	0.0853098	2.8057531	96	5	1985–2000	0.55	M-v	2	Williams	38083	1999 SR ₄
1999 SS ₄	15.9	0.15	19991009	30.53444	287.75671	43.70423	0.68819	0.2253295	2.3431211	49	1	43 days	0.80			Williams		1999 SS ₄
1999 SZ ₄	15.8	0.15	20000226	47.60406	342.27303	354.81753	12.34143	0.2767077	2.3530503	41	1	67 days	0.52	M-v	4	Williams		1999 SZ ₄
1999 SP ₅	15.3	0.15	20000226	28.16320	352.02419	23.55277	25.85936	0.1929827	2.2739902	28	1	68 days	0.54	M-v	4	Williams	38083	1999 SP ₅
1999 SR ₅	15.7	0.15	20000226	117.25521	272.30825	13.98917	21.15810	0.0773920	1.9099455	30	1	62 days	0.62	M-v	4	Williams	38083	1999 SR ₅
1999 ST ₅	15.1	0.15	19990919	315.17578	39.41064	23.15831	25.48209	0.1978571	2.2874591	23	1	33 days	0.37			Williams		1999 ST ₅
1999 SY ₅	13.6	0.15	20000226	34.58588	272.36525	130.55754	23.23496	0.3203106	2.3276663	43	1	187 days	0.46	M-v	3	Williams	39551	1999 SY ₅
1999 SD ₆	16.8	0.15	19990919	338.93887	274.56242	114.12940	6.79718	0.2242825	2.5273178	24	1	28 days	0.49			Williams		1999 SD ₆
1999 SF ₆	15.9	0.15	19990919	330.12787	359.38557	37.98815	7.01975	0.1581670	2.3957926	12	1	5 days	0.48		E	Williams		1999 SF ₆
1999 SG ₆	13.6	0.15	19990919	285.87534	297.45710	142.59686	11.55864	0.0832313	3.0909864	13	1	5 days	0.46		E	Williams		1999 SG ₆
1999 SH ₆	14.8	0.15	20000226	160.13965	112.72450	121.21343	8.16447	0.0933099	2.2350648	44	3	1988–1999	0.46	M-v	2	Williams	38083	1999 SH ₆
1999 SK ₆	12.6	0.15	19990919	261.43444	28.58205	79.17775	11.86220	0.1117658	2.9592356	13	1	11 days	0.42			Williams		1999 SK ₆
1999 SL ₆	14.8	0.15	20000226	61.49831	214.23261	110.78402	11.07874	0.1496477	2.5855274	40	3	1997–1999	0.76	M-v	3	Williams	38806	1999 SL ₆
1999 SN ₆	13.0	0.15	20000226	32.77855	248.16429	116.74022	10.78706	0.1150852	2.9949983	48	1	123 days	0.41	M-v	3	Williams	38083	1999 SN ₆
1999 SO ₆	14.7	0.15	19990919	16.85777	281.59475	55.62082	14.61563	0.2305722	2.6261529	13	1	5 days	0.38		E	Williams		1999 SO ₆
1999 SS ₆	14.9	0.15	19990919	311.82785	318.83120	100.61019	11.97220	0.1485577	3.0308985	10	1	11 days	0.63			Williams		1999 SS ₆
1999 SU ₆	13.8	0.15	20000226	82.29441	1.05791	322.52106	0.89447	0.0779365	2.9046635	88	1	102 days	0.48	M-v	4	Williams	38806	1999 SU ₆
1999 SV ₆	14.8	0.15	20000226	75.04975	71.58592	256.28950	3.74161	0.2087584	2.2544525	102	3	1992–1999	0.63	M-v	2	Williams	38806	1999 SV ₆
1999 SW ₆	15.6	0.15	20000226	59.10041	124.57730	219.29439	1.47370	0.2283953	2.4111221	76	1	68 days	0.51	M-v	4	Williams	38083	1999 SW ₆
1999 SZ ₆	14.4	0.15	20000226	23.74336	336.77500	12.86851	11.15195	0.3766635	3.0792870	28	1	63 days	0.53	M-v	4	Williams	38083	1999 SZ ₆
1999 SA ₇	13.1	0.15	19990919	102.75703	219.74588	350.05036	22.34689	0.1983921	3.0389325	13	1	5 days	0.64		E	Williams		1999 SA ₇
1999 SG ₇	14.4	0.15	20000226	12.29284	266.30004	114.22826	7.10930	0.1530905	2.4598241	52	2	1998–1999	0.67	M-v	4	Williams	39316	1999 SG ₇
1999 SL ₇	14.8	0.15	19990919	352.93093	350.20844	3.35270	15.26629	0.2651712	2.8138703	13	1	5 days	0.58		E	Williams		1999 SL ₇
1999 SM ₇	13.6	0.15	19990919	75.22234	99.80817	133.17998	13.07660	0.2780503	2.8092986	11	1	5 days	0.76		E	Williams		1999 SM ₇
1999 SR ₇	14.2	0.15	20000226	46.31149	289.27773	48.91702	7.59602	0.1513009	2.3772301	56	3	1981–1999	0.61	M-v	2	Williams	38083	1999 SR ₇
1999 ST ₇	13.3	0.15	19990919	290.06418	50.24033	24.88185	10.42495	0.2150384	3.1314882	13	1	5 days	0.71		E	Williams		1999 ST ₇
1999 SS ₈	13.7	0.15	20000226	92.59919	179.21639	106.29293	9.00675	0.1523423	2.3220754	39	2	1998–1999	0.58	M-v	4	Williams	38566	1999 SS ₈
1999 SX ₈	16.1	0.15	19990919	2.72300	327.79744	9.70928	10.74986	0.2903052	2.4767004	12	1	5 days	0.66		E	Williams		1999 SX ₈
1999 SN ₉	14.8	0.15	20000226	7.48999	81.53621	337.30996	1.84442	0.1920644	2.3816353	98	4	1988–2000	0.52	M-v	1	Williams	38083	1999 SN ₉

1999 SP ₉	14.8	0.15	20000226	117.08359	51.14711	218.10040	12.32384	0.1297600	2.6663796	68	3	1995–1999	0.64	M-v	3	Williams	36924	1999 SP ₉
1999 SR ₉	14.9	0.15	20000226	94.50041	138.97162	169.68303	5.86044	0.2260711	2.2343731	80	2	1998–2000	0.60	M-v	4	Williams	38806	1999 SR ₉
1999 SS ₉	14.7	0.15	20000226	3.31693	8.41430	65.16605	5.71689	0.2237106	2.5474853	66	3	1991–2000	0.53	M-v	4	Williams	38083	1999 SS ₉
1999 ST ₉	14.5	0.15	20000226	30.61569	13.02305	358.52899	6.02992	0.1889119	3.1664897	79	1	92 days	0.62	M-v	4	Williams	38806	1999 ST ₉
1999 SX ₉	16.6	0.15	20000226	49.68250	326.48252	34.04024	5.20549	0.1543667	2.2539925	54	1	74 days	0.61	M-v	4	Williams	37302	1999 SX ₉
1999 SA ₁₀	14.7	0.15	20000226	11.91652	1.77256	45.10202	14.87660	0.2456910	2.6546031	53	1	116 days	0.61	M-v	4	Williams	38083	1999 SA ₁₀
1999 SC ₁₀	14.4	0.15	20000226	349.50519	196.52754	235.85892	16.73820	0.1945053	3.1204242	38	1	98 days	0.79	M-v	4	Williams	38083	1999 SC ₁₀
1999 SK ₁₀	19.3	0.15	20000226	22.97338	268.83383	198.08636	6.95868	0.4407361	1.7631744	111	1	190 days	0.49	M-v	4	Marsden	39551	1999 SK ₁₀
1999 SP ₁₀	15.7	0.15	19990919	11.92867	300.54734	50.08829	18.20711	0.2309796	2.6455677	11	1	8 days	0.50			Williams		1999 SP ₁₀
1999 SR ₁₀	15.2	0.15	20000226	58.86953	136.81110	209.22970	6.70609	0.1328753	2.2799035	101	2	1998–1999	0.66	M-v	3	Williams	38083	1999 SR ₁₀
1999 ST ₁₀	15.7	0.15	19990919	12.47039	259.32883	101.03390	7.32646	0.1468437	2.3649257	16	1	13 days	0.39			Williams		1999 ST ₁₀
1999 SU ₁₀	14.3	0.15	20000226	1.25751	349.77832	73.85103	10.75698	0.2286546	3.1364551	58	1	140 days	0.57	M-v	3	Williams	38083	1999 SU ₁₀
1999 SW ₁₀	13.7	0.15	20000226	57.92993	285.63936	55.38426	15.67233	0.2061124	2.9129755	81	3	1997–2000	0.52	M-v	2	Williams	38083	1999 SW ₁₀
1999 SB ₁₁	15.0	0.15	20000226	78.42745	215.16069	116.87430	4.99680	0.1627224	2.3346602	45	2	1998–2000	0.54	M-v	4	Williams	37821	1999 SB ₁₁
1999 SH ₁₁	14.4	0.15	20000226	98.11779	224.77019	70.58882	8.95431	0.1899098	2.7837778	49	3	1984–1999	0.64	M-v	3	Williams	38083	1999 SH ₁₁
1999 SJ ₁₁	14.0	0.15	20000226	297.12909	35.53245	92.15125	6.23655	0.0624622	2.6682591	39	1	100 days	0.57	M-v	5	Williams	38083	1999 SJ ₁₁
1999 SL ₁₁	14.6	0.15	19990919	241.34177	70.09627	72.06958	6.50350	0.0251410	2.4786467	11	1	4 days	0.83		E	Williams		1999 SL ₁₁
1999 SN ₁₁	12.6	0.15	20000226	91.79229	268.62601	41.72355	15.86589	0.0977138	3.1100474	51	1	99 days	0.34	M-v	4	Williams	38806	1999 SN ₁₁
1999 SO ₁₁	14.9	0.15	20000226	87.72724	165.26501	155.75556	4.42293	0.2008005	2.1676864	67	2	1998–2000	0.56	M-v	4	Williams	38806	1999 SO ₁₁
1999 SP ₁₁	16.1	0.15	20000226	60.28066	229.72012	120.17715	3.26259	0.2631973	2.2592661	52	1	66 days	0.48	M-v	4	Williams	38084	1999 SP ₁₁
1999 SQ ₁₁	14.2	0.15	20000226	43.71752	293.40422	77.00959	5.82162	0.1271823	2.7460592	53	1	97 days	0.54	M-v	4	Williams	38084	1999 SQ ₁₁
1999 SR ₁₁	15.9	0.15	19990919	324.65724	249.41321	181.66441	12.35123	0.2025030	2.3774512	11	1	4 days	0.67		E	Williams		1999 SR ₁₁
1999 SS ₁₁	14.2	0.15	20000226	61.21309	248.24794	94.28381	4.44238	0.2246268	2.6072420	76	2	1998–2000	0.58	M-v	3	Williams	38084	1999 SS ₁₁
1999 ST ₁₁	14.5	0.15	20000226	71.26464	286.21904	57.50600	7.40872	0.1422497	2.3375326	65	2	1998–2000	0.60	M-v	3	Williams	38084	1999 ST ₁₁
1999 SU ₁₁	15.5	0.15	20000226	12.51909	258.26281	161.75035	6.38910	0.1195597	2.3535782	39	1	116 days	0.67	M-v	4	Williams	38084	1999 SU ₁₁
1999 SV ₁₁	15.0	0.15	20000226	38.34664	294.18998	84.94257	5.14778	0.2412536	2.5359161	60	1	138 days	0.48	M-v	3	Williams	38084	1999 SV ₁₁
1999 SW ₁₁	14.0	0.15	20000226	27.12747	338.27164	62.51037	6.88814	0.0927668	2.3502330	106	5	1981–2000	0.53	M-v	2	Williams	38806	1999 SW ₁₁
1999 SG ₁₂	14.9	0.15	19990919	25.10327	83.90943	244.35210	21.70125	0.2457291	3.0887134	11	1	14 days	0.37			Williams		1999 SG ₁₂
1999 TD	13.3	0.15	20000226	333.64763	252.58125	201.91485	22.40810	0.2353766	3.1372666	88	1	113 days	0.54	M-v	4	Williams	38084	1999 TD
1999 TE	16.4	0.15	20000226	40.41011	148.08829	230.97255	2.75679	0.2378788	2.2510845	74	1	137 days	0.55	M-v	3	Williams	38806	1999 TE
1999 TF	15.8	0.15	20000226	52.08515	217.87083	127.52285	5.36936	0.2592972	2.3500868	57	1	139 days	0.53	M-v	4	Williams	38084	1999 TF
1999 TG	16.1	0.15	19990919	54.52199	288.00172	1.04059	1.09086	0.2008394	2.4524689	20	1	7 days	0.52			Williams		1999 TG
1999 TK	14.9	0.15	19991029	333.55282	346.11369	76.33076	2.18580	0.2036386	3.1135338	47	1	58 days	0.51			Williams		1999 TK
1999 TM	14.7	0.15	20000226	10.17895	203.88285	212.75172	5.18952	0.1281116	2.3146093	134	4	1978–2000	0.52	M-v	2	Williams	38084	1999 TM
1999 TN	15.1	0.15	20000226	28.54713	183.10842	209.29561	7.10126	0.1976201	2.3946777	125	1	191 days	0.55	M-v	3	Williams	38806	1999 TN
1999 TO	16.0	0.15	20000226	19.51172	115.69703	284.33907	0.73653	0.1724343	2.3929349	59	1	68 days	0.64	M-v	5	Williams	38084	1999 TO
1999 TP	13.5	0.15	20000226	41.15848	156.41438	198.09708	17.01229	0.1300557	3.0792374	116	3	1997–2000	0.49	M-v	2	Williams	38084	1999 TP
1999 TQ	15.9	0.15	20000226	27.68949	192.41841	209.33023	1.68905	0.2317828	2.3988441	72	1	97 days	0.57	M-v	4	Williams	38806	1999 TQ
1999 TT	15.1	0.15	20000226	72.78716	310.58480	21.27413	7.01925	0.1340368	2.3511256	83	2	1998–1999	0.58	M-v	3	Williams	38084	1999 TT
1999 TU	14.8	0.15	20000226	85.73943	278.45978	28.96676	2.17056	0.1691486	2.5733359	72	2	1998–1999	0.60	M-v	4	Williams	38084	1999 TU
1999 TV	15.7	0.15	20000226	43.86597	145.64853	219.86067	2.30747	0.3012030	2.4282217	88	1	98 days	0.50	M-v	3	Williams	38806	1999 TV
1999 TW	14.7	0.15	20000226	85.66140	101.81834	214.56527	3.36771	0.2193986	2.1848352	125	2	1998–1999	0.52	M-v	4	Williams	38806	1999 TW
1999 TY	13.9	0.15	20000226	114.57557	252.56698	22.27667	17.50830	0.2091175	2.5992120	98	2	1998–2000	0.58	M-v	3	Williams	38084	1999 TY
1999 TZ	15.2	0.15	20000226	41.23768	177.56997	188.33635	4.70230	0.2970949	2.5364730	77	1	169 days	0.50	M-v	3	Williams	38084	1999 TZ
1999 TA ₁	16.3	0.15	20000226	55.81469	177.21844	174.32273	2.69879	0.2180077	2.3627908	70	2	1996–1999	0.55	M-v	4	Williams	37303	1999 TA ₁
1999 TB ₁	15.1	0.15	20000226	33.19081	179.30476	208.77185	4.70832	0.2347535	2.3698672	121	2	1988–2000	0.56	M-v	2	Williams	38806	1999 TB ₁
1999 TD ₁	14.4	0.15	19991009	36.11339	131.67135	199.80693	23.05582	0.1770964	3.1151705	30	1	44 days	0.62			Williams		1999 TD ₁
1999 TE ₁	13.7	0.15	20000226	44.96891	279.06742	70.92745	2.04299	0.1913980	3.2099034	76	3	1976–2000	0.51	M-v	3	Williams	38084	1999 TE ₁
1999 TF ₁	14.9	0.15	19991029	335.76775	204.45369	224.09542	2.80487	0.2504038	3.0572432	71	1	57 days	0.75			Williams		1999 TF ₁
1999 TG ₁	14.4	0.15	20000226	29.27483	71.70562	308.63159	0.96833	0.1395766	2.9268517	78	1	73 days	0.59	M-v	4	Williams	38806	1999 TG ₁
1999 TH ₁	15.4	0.15	20000226	289.35281	289.54603	211.38461	4.69307	0.0769197	2.2750000	62	1	71 days	0.59	M-v	5	Williams	38806	1999 TH ₁
1999 TJ ₁	14.0	0.15	20000226	358.17615	47.52356	15.54054	6.35926	0.0471441	2.4497688	89	1	98 days	0.53	M-v	4	Williams	38806	1999 TJ ₁
1999 TL ₁	15.3	0.15	20000226	29.64775	191.30827	196.78505	6.29456	0.2005766	2.5251160	66	1	98 days	0.65	M-v	3	Williams	38084	1999 TL ₁

1999 TM ₁	14.5	0.15	20000226	359.90857	46.35748	20.91256	8.41966	0.0566148	2.2261846	86	3	1989–2000	0.61	M-v	3	Williams	38084	1999 TM ₁
1999 TN ₁	14.0	0.15	20000226	70.66931	108.74974	205.61473	15.41745	0.2303601	3.1364752	83	3	1993–1999	0.67	M-v	1	Williams	38806	1999 TN ₁
1999 TO ₁	15.3	0.15	20000226	47.89305	349.94142	16.17957	11.28569	0.1684502	2.4160159	80	1	67 days	0.49	M-v	4	Williams	38806	1999 TO ₁
1999 TP ₁	15.5	0.15	20000226	19.22367	189.87954	216.63548	1.88034	0.1841252	2.4335314	78	2	1997–1999	0.49	M-v	4	Williams	38806	1999 TP ₁
1999 TQ ₁	15.8	0.15	19991009	20.01726	327.21519	16.23345	12.99243	0.3018525	2.6445714	60	1	34 days	0.55			Williams		1999 TQ ₁
1999 TR ₁	15.1	0.15	20000226	1.25788	225.89431	199.79051	6.24654	0.0849517	2.3380570	72	3	1994–2000	0.54	M-v	2	Williams	38084	1999 TR ₁
1999 TS ₁	15.1	0.15	20000226	95.28900	113.02165	199.18347	2.03740	0.1364453	2.2911228	103	2	1998–1999	0.62	M-v	4	Williams	36925	1999 TS ₁
1999 TT ₁	13.8	0.15	20000226	51.25935	323.70524	18.30794	10.62667	0.2248591	3.1468382	66	1	98 days	0.53	M-v	4	Williams	38806	1999 TT ₁
1999 TU ₁	12.7	0.15	20000226	161.05801	212.36481	33.65797	6.61341	0.0310302	3.0474987	77	1	87 days	0.47	M-v	5	Williams	38084	1999 TU ₁
1999 TV ₁	15.3	0.15	20000226	59.52061	174.86297	170.81784	2.65850	0.2451241	2.3480989	91	1	100 days	0.59	M-v	4	Williams	38084	1999 TV ₁
1999 TW ₁	15.2	0.15	19991009	67.89786	118.47818	183.57052	4.57029	0.1092558	2.3564779	45	1	45 days	0.87			Williams		1999 TW ₁
1999 TY ₁	14.5	0.15	20000226	39.16384	336.63039	50.76912	15.21297	0.3156629	2.5457658	93	1	117 days	0.45	M-v	3	Williams	38084	1999 TY ₁
1999 TB ₂	13.1	0.15	20000226	36.19149	272.26388	93.55101	13.77275	0.1971886	2.6283389	54	2	1998–2000	0.55	M-v	3	Williams	38084	1999 TB ₂
1999 TE ₂	15.4	0.15	20000226	78.98757	291.29475	42.96707	4.81527	0.1598304	2.3066302	65	3	1992–1999	0.59	M-v	3	Williams	38806	1999 TE ₂
1999 TF ₂	16.2	0.15	20000226	32.95620	172.88305	217.01276	5.64133	0.2587626	2.2786868	92	1	109 days	0.52	M-v	3	Williams	38806	1999 TF ₂
1999 TG ₂	12.5	0.15	20000226	229.55164	182.97274	359.11439	8.94991	0.0816464	2.7944785	78	2	1997–2000	0.45	M-v	3	Williams	38806	1999 TG ₂
1999 TH ₂	15.2	0.15	20000226	45.35233	115.68919	242.49673	3.23484	0.1790885	2.6709016	61	3	1993–1999	0.56	M-v	3	Williams	38806	1999 TH ₂
1999 TJ ₂	16.1	0.15	20000226	64.62111	139.50585	196.99502	2.86201	0.2219602	2.3555900	81	1	67 days	0.59	M-v	5	Williams	38084	1999 TJ ₂
1999 TP ₂	14.8	0.15	20000226	105.31946	207.74810	83.66229	12.61223	0.1607610	2.3539168	48	3	1993–1999	0.72	M-v	2	Williams	38084	1999 TP ₂
1999 TZ ₂	15.6	0.15	20000226	80.76758	227.89084	107.10122	4.31162	0.1990444	2.1617459	58	1	97 days	0.48	M-v	4	Williams	38085	1999 TZ ₂
1999 TA ₃	13.1	0.15	20000226	40.34972	80.81519	297.06900	8.74374	0.1182473	3.0016760	77	2	1998–2000	0.72	M-v	3	Williams	38806	1999 TA ₃
1999 TD ₃	15.1	0.15	20000226	317.71587	263.39255	207.40592	4.23939	0.1571884	2.4618040	62	2	1997–1999	0.54	M-v	4	Williams	38085	1999 TD ₃
1999 TL ₃	17.0	0.15	19991009	345.41220	31.36694	13.48257	11.17136	0.2785742	2.5323064	37	1	31 days	0.55			Williams		1999 TL ₃
1999 TN ₃	14.3	0.15	20000226	352.91480	65.30004	28.54260	24.27427	0.3580726	2.7437529	94	1	145 days	0.40	M-v	3	Williams	38806	1999 TN ₃
1999 TO ₃	15.4	0.15	20000226	68.86302	58.77655	277.24072	0.96657	0.1731203	2.4183939	68	2	1998–1999	0.64	M-v	4	Williams	38806	1999 TO ₃
1999 TP ₃	13.1	0.15	20000226	25.08077	11.38194	18.21650	10.80603	0.1081088	3.0443910	87	1	114 days	0.46	M-v	3	Williams	38085	1999 TP ₃
1999 TS ₃	15.7	0.15	20000226	99.35052	336.99618	323.84402	0.77370	0.0924980	2.6440251	32	1	65 days	0.48	M-v	6	Williams	37303	1999 TS ₃
1999 TU ₃	13.5	0.15	20000226	280.27707	115.11236	16.19348	10.00073	0.0525056	2.9693321	81	1	68 days	0.50	M-v	5	Williams	38806	1999 TU ₃
1999 TW ₃	14.2	0.15	20000226	352.24167	6.30446	65.67273	5.37556	0.0928612	2.3935696	81	4	1992–2000	0.51	M-v	3	Williams	38085	1999 TW ₃
1999 TX ₃	15.9	0.15	20000226	64.68363	329.22254	13.74585	4.25967	0.1602825	2.3167663	70	1	63 days	0.42	M-v	4	Williams	38085	1999 TX ₃
1999 TY ₃	15.5	0.15	20000226	325.73622	83.91623	24.88156	3.61857	0.1535333	2.3304677	65	1	65 days	0.49	M-v	5	Williams	38085	1999 TY ₃
1999 TD ₄	14.9	0.15	20000226	159.67817	280.80601	307.81066	5.32141	0.2351483	2.2553936	56	1	64 days	0.55	M-v	5	Williams	38085	1999 TD ₄
1999 TJ ₄	13.3	0.15	20000226	137.62983	44.45800	219.98054	6.31004	0.0740609	2.9895349	88	3	1997–2000	0.53	M-v	3	Williams	38806	1999 TJ ₄
1999 TL ₄	14.9	0.15	20000226	2.25319	51.01353	15.32671	5.96750	0.1047392	2.4049834	70	1	97 days	0.45	M-v	4	Williams	38806	1999 TL ₄
1999 TM ₄	13.9	0.15	20000226	81.73817	89.46551	242.24811	4.40632	0.1245935	2.8533299	84	1	95 days	0.52	M-v	4	Williams	38085	1999 TM ₄
1999 TT ₄	15.7	0.15	19991009	333.42461	52.38918	17.26550	27.27402	0.3444020	3.0957898	59	1	59 days	0.62			Williams		1999 TT ₄
1999 TU ₄	14.5	0.15	20000226	75.72521	297.63570	17.74553	15.90121	0.1926025	2.6308685	64	1	89 days	0.42	M-v	4	Williams	39551	1999 TU ₄
1999 TW ₄	14.8	0.15	20000226	51.04940	334.65814	22.06154	17.93862	0.2133536	2.5242466	72	1	94 days	0.47	M-v	4	Williams	38806	1999 TW ₄
1999 TX ₄	15.9	0.15	20000226	28.50117	249.25514	126.60368	6.13375	0.2417380	2.6112775	35	1	99 days	0.50	M-v	4	Williams		1999 TX ₄
1999 TC ₅	18.3	0.15	20000226	15.50111	282.54291	192.61523	29.09397	0.5476645	2.0156590	74	1	187 days	0.53	M-v	3	Williams	39551	1999 TC ₅
1999 TJ ₅	15.1	0.15	20000226	68.28413	6.51485	347.36164	3.86006	0.1721810	2.1911839	80	2	1998–2000	0.62	M-v	4	Williams	38085	1999 TJ ₅
1999 TK ₅	14.0	0.15	20000226	86.04066	97.93757	212.65848	12.10858	0.2116567	2.5540281	126	2	1998–2000	0.57	M-v	3	Williams	38807	1999 TK ₅
1999 TN ₅	15.8	0.15	19991009	6.75114	198.78756	173.77041	2.26842	0.0905564	2.3781263	47	1	44 days	0.74			Williams		1999 TN ₅
1999 TO ₅	15.1	0.15	20000226	70.58574	309.86881	20.40265	5.15581	0.2137506	2.4406909	86	2	1998–2000	0.58	M-v	3	Williams	38807	1999 TO ₅
1999 TP ₅	15.8	0.15	19991009	22.17710	247.64415	111.31376	1.73293	0.0061058	2.1784023	37	1	44 days	0.63			Williams		1999 TP ₅
1999 TQ ₅	14.6	0.15	20000226	15.67051	206.23340	201.02110	4.05833	0.1720942	2.5889275	78	4	1987–1999	0.53	M-v	3	Williams	38085	1999 TQ ₅
1999 TR ₅	14.0	0.15	20000226	58.19606	323.11608	27.89547	8.20815	0.2102549	2.5527345	91	4	1974–2000	0.54	M-v	1	Williams	38085	1999 TR ₅
1999 TS ₅	15.5	0.15	20000226	54.32529	24.64354	337.46883	3.70632	0.1792670	2.2000407	72	1	97 days	0.54	M-v	4	Williams	38807	1999 TS ₅
1999 TT ₅	14.9	0.15	20000226	21.90622	185.20054	220.51900	5.12365	0.1992821	2.4371402	104	1	99 days	0.50	M-v	3	Williams	38807	1999 TT ₅
1999 TU ₅	13.5	0.15	20000226	6.53489	349.95832	72.06858	5.46140	0.1005631	2.8125894	70	1	93 days	0.52	M-v	4	Williams	38807	1999 TU ₅
1999 TV ₅	13.6	0.15	20000226	62.75056	136.86974	221.97265	11.22131	0.2079298	2.5749740	109	3	1974–2000	0.56	M-v	2	Williams	39551	1999 TV ₅
1999 TZ ₅	15.4	0.15	20000226	122.05870	258.74170	21.38763	5.99520	0.1916246	2.1963854	68	2	1998–1999	0.64	M-v	4	Williams	38807	1999 TZ ₅
1999 TA ₆	14.5	0.15	20000226	357.19562	30.13374	355.36960	9.51365	0.0658349	3.4708426	36	1	65 days	0.66	M-v	5	Williams	36926	1999 TA ₆

1999 TC ₆	15.0	0.15	20000226	105.75976	161.74561	133.62125	7.28248	0.1168443	2.4112034	58	2	1998–1999	0.74	M-v	4	Williams	38085	1999 TC ₆
1999 TD ₆	14.3	0.15	20000226	26.63506	264.63628	122.44536	4.50856	0.1054019	2.6520614	73	1	97 days	0.67	M-v	4	Williams	38085	1999 TD ₆
1999 TE ₆	14.5	0.15	20000226	332.06150	252.91327	186.58740	8.64079	0.0182125	2.5910355	90	3	1997–1999	0.49	M-v	3	Williams	38807	1999 TE ₆
1999 TF ₆	14.9	0.15	20000226	21.07127	353.94425	27.84175	7.26476	0.1653204	3.1365502	83	1	66 days	0.55	M-v	4	Williams	38085	1999 TF ₆
1999 TG ₆	14.8	0.15	20000226	147.86342	259.17899	9.03895	4.37909	0.2223392	2.3512423	89	2	1998–1999	0.59	M-v	4	Williams	38807	1999 TG ₆
1999 TH ₆	15.3	0.15	20000226	208.70681	165.68840	36.81790	6.47205	0.1038748	2.2270671	80	2	1998–1999	0.61	M-v	4	Williams	36926	1999 TH ₆
1999 TK ₆	15.8	0.15	20000226	25.86066	192.83594	199.16689	3.78779	0.2210333	2.5768751	62	1	66 days	0.56	M-v	4	Williams	38085	1999 TK ₆
1999 TO ₆	13.6	0.15	20000226	25.04275	239.11257	142.66287	1.68816	0.1747334	3.2005325	69	2	1997–1999	0.44	M-v	4	Williams	38085	1999 TO ₆
1999 TP ₆	14.0	0.15	20000226	20.47239	297.24812	92.90595	2.63326	0.2196379	3.0907383	65	1	67 days	0.58	M-v	4	Williams	38085	1999 TP ₆
1999 TR ₆	13.3	0.15	19991009	42.60179	293.96744	41.30788	11.01644	0.0690330	3.0290654	43	1	44 days	0.54			Williams		1999 TR ₆
1999 TU ₆	14.9	0.15	20000226	93.61626	299.99392	15.78401	3.40677	0.1197011	2.3345735	86	3	1988–1999	0.63	M-v	3	Williams	38807	1999 TU ₆
1999 TX ₆	14.1	0.15	20000226	355.25378	49.44364	24.40948	13.58313	0.1706157	2.6606795	74	2	1997–2000	0.52	M-v	3	Williams	38807	1999 TX ₆
1999 TC ₇	13.8	0.15	20000226	229.86744	160.25521	33.13449	7.37859	0.0633225	2.3277154	68	1	72 days	0.50	M-v	4	Williams	38085	1999 TC ₇
1999 TD ₇	14.2	0.15	20000226	20.67365	212.04413	183.34077	3.98011	0.1911681	2.8354072	62	2	1994–2000	0.45	M-v	3	Williams	38085	1999 TD ₇
1999 TE ₇	15.1	0.15	19991009	301.35241	37.46903	48.13224	4.77669	0.0381001	2.6192297	34	1	40 days	0.61			Williams		1999 TE ₇
1999 TH ₇	14.0	0.15	20000226	293.22929	283.70727	212.22866	5.93453	0.0578835	2.3601883	82	4	1981–2000	0.55	M-v	1	Williams	38807	1999 TH ₇
1999 TJ ₇	15.4	0.15	20000226	97.90806	99.42032	204.40528	2.64980	0.1798393	2.3799292	41	2	1991–1999	0.55	M-v	5	Williams	38807	1999 TJ ₇
1999 TK ₇	16.1	0.15	20000226	8.47842	50.95046	11.39518	2.74854	0.2103655	2.4023294	69	1	64 days	0.48	M-v	5	Williams	38085	1999 TK ₇
1999 TO ₇	13.4	0.15	20000226	48.50418	324.91862	55.23162	14.40771	0.1770440	2.6279279	105	2	1992–2000	0.51	M-v	3	Williams	38807	1999 TO ₇
1999 TP ₇	14.8	0.15	20000226	85.23925	46.59803	264.41462	12.06107	0.2432422	2.3846666	113	1	165 days	0.61	M-v	4	Williams	38086	1999 TP ₇
1999 TS ₇	15.8	0.15	20000226	43.70071	323.90258	28.65909	16.19156	0.2545846	2.6093109	45	1	90 days	0.57	M-v	4	Williams	38086	1999 TS ₇
1999 TV ₇	14.9	0.15	20000226	60.32482	284.06512	47.14987	9.88079	0.2924371	2.3742373	51	1	116 days	0.63	M-v	4	Williams	38086	1999 TV ₇
1999 TW ₇	16.2	0.15	19990919	30.22971	149.10786	166.75223	13.06767	0.2925381	2.4126956	13	1	6 days	0.99		E	Williams		1999 TW ₇
1999 TA ₈	15.3	0.15	19991009	8.95386	225.75975	138.71927	5.00199	0.2719238	2.7387181	28	1	30 days	0.53			Williams		1999 TA ₈
1999 TB ₈	14.8	0.15	20000226	20.01181	14.03585	32.41637	14.50713	0.2725997	2.6757594	112	1	165 days	0.43	M-v	3	Williams	38807	1999 TB ₈
1999 TD ₈	15.8	0.15	20000226	28.63453	358.23940	37.46738	0.84905	0.2052486	2.3281980	86	1	67 days	0.54	M-v	4	Williams	38086	1999 TD ₈
1999 TE ₈	16.0	0.15	20000226	52.42758	168.32682	195.70241	6.40843	0.1547612	2.2462975	59	1	99 days	0.58	M-v	4	Williams	38086	1999 TE ₈
1999 TF ₈	14.8	0.15	20000226	50.47648	48.73895	303.58653	7.82654	0.2338013	2.7208583	49	1	66 days	0.58	M-v	4	Williams	38086	1999 TF ₈
1999 TG ₈	13.9	0.15	20000226	7.32620	86.75791	341.97149	6.38624	0.1341601	2.2908460	64	1	97 days	0.51	M-v	4	Williams	38086	1999 TG ₈
1999 TH ₈	15.0	0.15	20000226	16.52384	139.22366	279.43758	3.95941	0.2119823	2.3589632	57	1	95 days	0.53	M-v	4	Williams	38086	1999 TH ₈
1999 TJ ₈	16.0	0.15	19991009	325.14551	34.48742	36.07038	3.16856	0.1910226	2.4261263	44	1	44 days	0.79			Williams		1999 TJ ₈
1999 TL ₈	15.5	0.15	20000226	41.85897	342.90716	29.98386	9.97776	0.1861104	2.4390570	68	1	83 days	0.51	M-v	4	Williams	38086	1999 TL ₈
1999 TM ₈	15.1	0.15	19991009	349.06178	318.27305	77.65834	3.14374	0.1017682	2.9011499	24	1	42 days	0.75			Williams		1999 TM ₈
1999 TN ₈	14.8	0.15	19991009	341.59791	235.41572	172.20927	3.98534	0.1478466	3.0324530	32	1	45 days	0.65			Williams		1999 TN ₈
1999 TP ₈	15.3	0.15	20000226	86.39853	259.24367	69.32130	2.57531	0.0629022	2.3699752	62	2	1998–1999	0.70	M-v	4	Williams	37304	1999 TP ₈
1999 TQ ₈	13.8	0.15	20000226	141.84670	57.56935	212.02414	9.48395	0.0147599	2.9827485	74	1	79 days	0.52	M-v	4	Williams	38807	1999 TQ ₈
1999 TS ₈	15.1	0.15	20000226	68.33659	333.67605	357.03320	4.05236	0.2107150	2.5579065	97	2	1998–1999	0.52	M-v	3	Williams	38807	1999 TS ₈
1999 TT ₈	13.8	0.15	20000226	52.24657	130.38379	216.96418	8.02957	0.1577703	3.0452653	100	1	97 days	0.43	M-v	4	Williams	38807	1999 TT ₈
1999 TU ₈	12.7	0.15	20000226	307.68996	25.45404	89.09259	2.76133	0.1116180	3.2293534	75	3	1982–2000	0.59	M-v	3	Williams	38086	1999 TU ₈
1999 TV ₈	13.7	0.15	20000226	309.66607	299.43040	192.10648	7.90842	0.2406407	2.7070209	64	2	1994–2000	0.52	M-v	4	Williams	38807	1999 TV ₈
1999 TX ₈	16.2	0.15	20000226	42.84779	37.47433	320.59072	1.69956	0.2048744	2.3605180	95	1	107 days	0.48	M-v	3	Williams	38807	1999 TX ₈
1999 TB ₉	14.9	0.15	20000226	56.71122	143.06005	204.10572	12.87810	0.1684725	2.6998898	65	1	125 days	0.59	M-v	4	Williams	38086	1999 TB ₉
1999 TD ₉	14.8	0.15	19991009	322.98103	256.83043	182.70181	7.95336	0.2262748	3.1913194	22	1	29 days	0.62			Williams		1999 TD ₉
1999 TG ₉	16.5	0.15	19991009	23.43281	323.22597	22.33727	5.40303	0.2322121	2.2488602	51	1	39 days	0.50			Williams		1999 TG ₉
1999 TJ ₉	12.4	0.15	20000226	311.27515	253.23895	210.04597	11.22405	0.0225734	3.1770290	66	1	98 days	0.43	M-v	4	Williams	38807	1999 TJ ₉
1999 TK ₉	14.2	0.15	20000226	17.31567	23.97127	15.91773	4.48188	0.2467740	3.1068246	87	1	95 days	0.50	M-v	4	Williams	38807	1999 TK ₉
1999 TL ₉	14.9	0.15	20000226	30.08354	7.66270	22.20675	9.73756	0.1890386	2.6038918	96	1	114 days	0.47	M-v	3	Williams	38807	1999 TL ₉
1999 TM ₉	16.4	0.15	20000226	44.31467	352.39796	21.91777	8.43449	0.2726604	2.3072734	66	1	67 days	0.59	M-v	4	Williams	38086	1999 TM ₉
1999 TN ₉	15.1	0.15	20000226	154.76782	232.90518	29.31423	7.50926	0.0916660	2.3239861	81	2	1998–1999	0.56	M-v	3	Williams	38807	1999 TN ₉
1999 TO ₉	17.1	0.15	19991009	359.86819	4.05341	20.75869	5.38445	0.2343119	2.3408215	65	1	44 days	0.59			Williams		1999 TO ₉
1999 TP ₉	15.4	0.15	20000226	57.43267	335.48064	18.97256	2.31039	0.2212153	2.3606891	77	1	96 days	0.55	M-v	4	Williams	38807	1999 TP ₉
1999 TQ ₉	13.6	0.15	20000226	25.42894	195.60083	192.08155	0.71796	0.1981780	3.0935882	119	3	1989–2000	0.55	M-v	2	Williams	38807	1999 TQ ₉
1999 TR ₉	15.0	0.15	20000226	28.71869	22.26294	19.10715	2.55231	0.2464366	2.3441384	101	3	1981–2000	0.49	M-v	2	Williams	39551	1999 TR ₉

1999 TS ₉	14.7	0.15	20000226	100.19995	272.71780	31.49343	5.69080	0.2073348	2.2730501	98	2	1998–2000	0.45	M-v	4	Williams	38807	1999 TS ₉
1999 TT ₉	16.0	0.15	20000226	18.15921	204.65193	205.32699	2.92486	0.2196299	2.4685106	61	1	61 days	0.52	M-v	5	Williams	38807	1999 TT ₉
1999 TV ₉	14.4	0.15	20000226	319.67716	256.55923	200.00742	21.50464	0.0388208	2.5816533	55	1	71 days	0.46	M-v	4	Williams		1999 TV ₉
1999 TW ₉	15.6	0.15	20000226	57.65215	23.93128	330.34050	1.89747	0.2135119	2.3909337	126	4	1951–2000	0.63	M-v	2	Williams	38807	1999 TW ₉
1999 TX ₉	13.7	0.15	20000226	39.54352	12.89512	50.11049	26.40724	0.2760861	2.3142367	69	1	168 days	0.54	M-v	3	Williams	39551	1999 TX ₉
1999 TZ ₉	14.9	0.15	20000226	352.54493	17.92559	54.22614	3.49097	0.1985794	2.8024731	81	2	1997–2000	0.53	M-v	3	Williams	38086	1999 TZ ₉
1999 TC ₁₀	18.6	0.15	20000226	23.46704	57.71599	28.58368	19.31119	0.5856135	2.3227801	80	1	173 days	0.60	M-v	4	Williams	38807	1999 TC ₁₀
1999 TG ₁₀	14.4	0.15	20000226	277.60064	159.40205	350.60666	2.26777	0.1352481	2.4589186	65	2	1997–1999	0.58	M-v	4	Williams	38086	1999 TG ₁₀
1999 TN ₁₀	15.9	0.15	20000226	69.04518	119.67672	204.79274	4.83472	0.2886125	2.5611907	38	1	90 days	0.55	M-v	5	Williams	38807	1999 TN ₁₀
1999 TR ₁₀	12.9	0.15	20000226	35.84304	355.20927	20.50070	10.48405	0.0564656	3.0681643	104	1	97 days	0.42	M-v	3	Williams	38807	1999 TR ₁₀
1999 TT ₁₀	12.6	0.15	20000226	100.02266	275.24090	31.55329	11.22170	0.0888908	3.0294276	78	1	96 days	0.50	M-v	4	Williams	38807	1999 TT ₁₀
1999 TW ₁₀	15.4	0.15	20000226	355.47331	41.45443	45.30088	8.78673	0.1449810	2.3776241	71	1	66 days	0.63	M-v	4	Williams	38807	1999 TW ₁₀
1999 TA ₁₁	15.0	0.15	20000226	328.01610	287.21735	184.35299	7.68369	0.0638243	2.2790664	48	1	98 days	0.65	M-v	5	Williams	38087	1999 TA ₁₁
1999 TD ₁₁	14.9	0.15	20000226	37.31486	77.26757	351.94203	1.94661	0.2988710	2.5587229	73	2	1992–2000	0.51	M-v	3	Williams	39551	1999 TD ₁₁
1999 TF ₁₁	14.1	0.15	20000226	28.45070	156.92466	220.21212	16.60805	0.2140709	3.1735470	75	1	65 days	0.51	M-v	3	Williams	38087	1999 TF ₁₁
1999 TH ₁₁	12.7	0.15	20000226	4.48477	184.52537	223.55632	14.60681	0.0869487	3.2006394	81	2	1997–2000	0.61	M-v	3	Williams	38087	1999 TH ₁₁
1999 TK ₁₁	13.4	0.15	20000226	324.33276	105.38002	356.95440	6.36547	0.0843587	2.4359937	77	4	1984–2000	0.54	M-v	1	Williams	38807	1999 TK ₁₁
1999 TL ₁₁	14.2	0.15	20000226	19.96741	202.57657	208.25621	13.73724	0.1336590	2.4415824	107	3	1994–2000	0.58	M-v	2	Williams	38807	1999 TL ₁₁
1999 TP ₁₁	14.5	0.15	20000226	33.21623	330.58765	71.11639	7.31820	0.0951636	2.2516695	84	1	173 days	0.42	M-v	3	Williams	39551	1999 TP ₁₁
1999 TQ ₁₁	12.9	0.15	20000226	28.20440	294.12121	96.79899	6.41840	0.1528385	3.1905612	96	3	1997–2000	0.54	M-v	2	Williams	38808	1999 TQ ₁₁
1999 TS ₁₁	12.9	0.15	20000226	56.18716	23.41094	326.64354	12.61519	0.1911742	2.6446590	131	2	1990–2000	0.42	M-v	3	Williams	38808	1999 TS ₁₁
1999 TU ₁₁	12.5	0.15	20000226	84.85368	106.55192	209.17321	13.60604	0.2262628	3.1779376	77	4	1993–1999	0.59	M-v	1	Williams	38808	1999 TU ₁₁
1999 TW ₁₁	14.8	0.15	20000226	336.63731	286.04476	185.31886	4.60354	0.1076733	2.3319423	94	2	1990–2000	0.59	M-v	4	Williams	38808	1999 TW ₁₁
1999 TZ ₁₁	15.7	0.15	20000226	95.33610	102.31778	204.21426	3.51962	0.1690899	2.2298154	60	1	61 days	0.44	M-v	5	Williams	38087	1999 TZ ₁₁
1999 TA ₁₂	16.2	0.15	20000226	63.25331	130.04479	208.40925	1.88619	0.2316013	2.3350709	66	1	83 days	0.51	M-v	4	Williams	38808	1999 TA ₁₂
1999 TB ₁₂	13.5	0.15	20000226	301.53374	88.12308	48.95270	14.19426	0.1014614	2.5648539	109	4	1987–2000	0.49	M-v	2	Williams	38808	1999 TB ₁₂
1999 TD ₁₂	15.2	0.15	20000226	59.58594	244.98845	111.35693	3.30425	0.1981675	2.4179379	69	1	63 days	0.51	M-v	4	Williams	38808	1999 TD ₁₂
1999 TF ₁₂	14.0	0.15	20000226	70.56983	137.49115	201.14704	10.35306	0.1408170	2.9840005	57	2	1997–1999	0.58	M-v	4	Williams	38808	1999 TF ₁₂
1999 TG ₁₂	15.6	0.15	20000226	38.99739	236.94302	151.27438	2.85514	0.1924081	2.3808625	67	1	95 days	0.53	M-v	4	Williams	38808	1999 TG ₁₂
1999 TH ₁₂	14.9	0.15	20000226	56.83910	205.78962	142.55811	6.14445	0.2145267	2.1667307	89	3	1983–2000	0.53	M-v	2	Williams	38808	1999 TH ₁₂
1999 TK ₁₂	17.9	0.15	20000226	9.18365	111.98323	359.24748	24.48067	0.3931200	1.6829575	89	1	169 days	0.63	M-v	3	Williams	39551	1999 TK ₁₂
1999 TP ₁₂	13.7	0.15	20000226	62.22322	303.40966	34.37804	13.28111	0.1954323	2.6097018	129	2	1998–2000	0.57	M-v	3	Williams	38087	1999 TP ₁₂
1999 TQ ₁₂	15.8	0.15	20000226	55.91912	293.20921	66.87029	3.34713	0.1723190	2.2228871	76	1	89 days	0.55	M-v	4	Williams	38087	1999 TQ ₁₂
1999 TS ₁₂	15.9	0.15	19991009	9.46494	350.43700	27.34250	9.92683	0.1506619	2.7779112	43	1	41 days	0.70			Williams		1999 TS ₁₂
1999 TT ₁₂	15.2	0.15	20000226	41.21515	324.50482	29.95009	15.82966	0.2166732	2.5980516	57	1	85 days	0.50	M-v	3	Williams	38087	1999 TT ₁₂
1999 TU ₁₂	15.6	0.15	20000226	31.31061	214.04580	178.60731	6.86166	0.2089999	2.3200429	66	1	125 days	0.60	M-v	3	Williams	38087	1999 TU ₁₂
1999 TW ₁₂	13.6	0.15	20000226	338.60350	57.67645	36.13303	17.36548	0.2448183	3.1010533	66	1	95 days	0.55	M-v	4	Williams	38087	1999 TW ₁₂
1999 TX ₁₂	12.8	0.15	20000226	345.85410	1.46292	67.66169	5.65025	0.0742256	3.0044235	82	2	1997–2000	0.54	M-v	3	Williams	38087	1999 TX ₁₂
1999 TY ₁₂	13.4	0.15	20000226	12.79302	322.64854	55.63864	4.49027	0.2004034	4.0123588	74	1	74 days	0.55	M-v	4	Williams	38087	1999 TY ₁₂
1999 TZ ₁₂	13.8	0.15	20000226	68.39115	274.25139	81.46241	4.69494	0.1900256	2.2517483	109	3	1992–2000	0.48	M-v	2	Williams	39551	1999 TZ ₁₂
1999 TB ₁₃	14.4	0.15	20000226	49.56389	71.21424	292.17356	7.91587	0.2214433	2.7286542	53	1	122 days	0.48	M-v	4	Williams	38087	1999 TB ₁₃
1999 TC ₁₃	13.9	0.15	20000226	63.38402	288.11518	55.14800	2.09411	0.2000433	3.1684871	96	1	75 days	0.47	M-v	4	Williams	38087	1999 TC ₁₃
1999 TD ₁₃	16.7	0.15	20000226	30.32921	187.63197	211.29106	5.43728	0.3176006	2.5646500	67	1	65 days	0.60	M-v	4	Williams	38808	1999 TD ₁₃
1999 TF ₁₃	14.2	0.15	20000226	280.37697	113.71168	52.70724	15.65301	0.0542497	2.6224573	90	1	85 days	0.58	M-v	4	Williams	38087	1999 TF ₁₃
1999 TG ₁₃	15.0	0.15	20000226	85.96592	283.83524	54.88862	4.69834	0.1965731	2.2500571	106	2	1998–1999	0.54	M-v	4	Williams	38087	1999 TG ₁₃
1999 TH ₁₃	14.1	0.15	20000226	139.25980	230.79329	26.72357	12.66604	0.1840832	2.7366472	49	2	1993–1999	0.54	M-v	5	Williams	38808	1999 TH ₁₃
1999 TJ ₁₃	13.6	0.15	20000226	217.74497	247.52971	293.39540	11.10499	0.1231755	2.6941840	66	1	66 days	0.49	M-v	4	Williams	38087	1999 TJ ₁₃
1999 TK ₁₃	14.0	0.15	20000226	37.61952	290.90224	86.02713	7.07843	0.2396627	3.0606337	75	1	116 days	0.59	M-v	4	Williams	38087	1999 TK ₁₃
1999 TL ₁₃	16.1	0.15	20000226	64.76693	306.14608	38.47759	5.67933	0.2346295	2.2220290	68	1	64 days	0.57	M-v	4	Williams	38087	1999 TL ₁₃
1999 TP ₁₃	14.9	0.15	20000226	13.02860	192.46638	219.29089	1.92788	0.1420007	2.3663381	83	2	1997–1999	0.57	M-v	4	Williams	38087	1999 TP ₁₃
1999 TQ ₁₃	14.5	0.15	20000226	20.78225	123.75566	262.41960	2.26739	0.1612239	3.0655432	68	1	67 days	0.52	M-v	4	Williams	38808	1999 TQ ₁₃
1999 TR ₁₃	13.8	0.15	20000226	330.30224	87.63954	14.05559	13.93154	0.1366398	2.5974869	83	2	1997–2000	0.48	M-v	3	Williams	38808	1999 TR ₁₃
1999 TS ₁₃	16.4	0.15	19991009	5.18042	285.59472	85.76373	4.39568	0.2348352	2.3920821	29	1	32 days	0.51			Williams		1999 TS ₁₃

1999 TT ₁₃	13.7	0.15	20000226	80.10319	288.85425	40.23108	5.24180	0.0970547	2.7003239	48	1	97 days	0.66	M-v	5	Williams	38808	1999 TT ₁₃
1999 TU ₁₃	14.8	0.15	20000226	67.57065	312.66264	36.35040	6.58063	0.1449984	2.2726218	46	2	1998–2000	0.59	M-v	4	Williams	38808	1999 TU ₁₃
1999 TX ₁₃	13.8	0.15	20000226	74.73305	125.54681	201.77260	10.55469	0.2062653	2.9020005	84	2	1998–2000	0.62	M-v	3	Williams	38808	1999 TX ₁₃
1999 TY ₁₃	14.8	0.15	20000226	27.11496	263.75853	135.85169	3.03321	0.1054183	2.6375563	63	1	64 days	0.64	M-v	4	Williams	38808	1999 TY ₁₃
1999 TB ₁₄	15.8	0.15	20000226	26.73439	207.51115	183.88866	8.23219	0.1888505	2.5681295	49	1	60 days	0.45	M-v	4	Williams	37305	1999 TB ₁₄
1999 TD ₁₄	15.6	0.15	20000226	64.53080	139.75373	217.18486	5.70995	0.1375865	2.2670735	82	1	94 days	0.53	M-v	4	Williams	38087	1999 TD ₁₄
1999 TE ₁₄	14.9	0.15	20000226	75.18025	252.54076	73.13443	1.80815	0.2215900	2.3997693	62	4	1984–1999	0.69	M-v	2	Williams	38088	1999 TE ₁₄
1999 TG ₁₄	14.5	0.15	20000226	64.20056	306.03676	42.29886	7.30809	0.1326495	2.3853874	86	2	1998–2000	0.63	M-v	3	Williams	38088	1999 TG ₁₄
1999 TH ₁₄	13.2	0.15	20000226	57.22226	236.15196	103.76369	1.87125	0.1756517	3.1673213	59	3	1993–1999	0.55	M-v	4	Williams	38088	1999 TH ₁₄
1999 TK ₁₄	14.2	0.15	20000226	17.43386	265.91506	147.87424	2.45830	0.1958981	2.3792232	71	1	115 days	0.48	M-v	4	Williams	38808	1999 TK ₁₄
1999 TL ₁₄	15.0	0.15	20000226	68.10390	272.01325	67.42539	4.92259	0.2620500	2.5588025	64	3	1995–1999	0.54	M-v	3	Williams	38808	1999 TL ₁₄
1999 TM ₁₄	15.9	0.15	20000226	41.91576	220.12957	173.73002	2.18276	0.1694712	2.2232432	96	3	1992–2000	0.56	M-v	3	Williams	38088	1999 TM ₁₄
1999 TN ₁₄	14.2	0.15	20000226	39.07499	166.78536	208.49248	9.43401	0.2670631	3.0774548	79	1	91 days	0.65	M-v	4	Williams	38088	1999 TN ₁₄
1999 TO ₁₄	13.6	0.15	20000226	68.17756	218.75564	136.17626	2.87727	0.0856167	2.8448888	89	2	1998–1999	0.53	M-v	3	Williams	38808	1999 TO ₁₄
1999 TS ₁₄	14.7	0.15	20000226	14.15236	188.18371	207.03944	2.06642	0.1622212	3.0372169	72	1	99 days	0.57	M-v	4	Williams	38088	1999 TS ₁₄
1999 TW ₁₄	13.8	0.15	20000226	102.47586	258.76684	57.85710	7.32885	0.1153243	2.5459780	89	1	95 days	0.48	M-v	4	Williams	38808	1999 TW ₁₄
1999 TX ₁₄	15.8	0.15	20000226	33.29756	340.25427	39.34104	9.35370	0.3205368	2.6543991	76	1	98 days	0.61	M-v	3	Williams	38088	1999 TX ₁₄
1999 TY ₁₄	16.1	0.15	20000226	35.73429	278.85405	94.32945	2.90281	0.3481545	2.6650964	67	1	61 days	0.58	M-v	4	Williams	38088	1999 TY ₁₄
1999 TZ ₁₄	14.8	0.15	20000226	68.68809	156.56777	182.55539	7.70581	0.2320441	2.2449210	85	2	1998–2000	0.56	M-v	3	Williams	38088	1999 TZ ₁₄
1999 TA ₁₅	15.2	0.15	20000226	49.17833	196.99766	173.49677	6.59720	0.1445250	2.3088829	50	1	98 days	0.56	M-v	4	Williams	38088	1999 TA ₁₅
1999 TD ₁₅	14.5	0.15	20000226	351.18125	231.49432	213.65233	22.73759	0.2968784	2.3557093	74	1	161 days	0.46	M-v	3	Williams	38808	1999 TD ₁₅
1999 TE ₁₅	15.1	0.15	20000226	346.21644	242.43193	189.12729	10.82971	0.1060724	2.6698403	60	2	1997–1999	0.59	M-v	4	Williams	38808	1999 TE ₁₅
1999 TG ₁₅	15.3	0.15	20000226	354.45944	225.38878	203.87317	7.75307	0.1890439	2.7498456	68	1	67 days	0.48	M-v	5	Williams	38088	1999 TG ₁₅
1999 TP ₁₅	14.2	0.15	20000226	22.42273	8.23710	21.07241	10.27499	0.0779722	3.1905413	57	1	93 days	0.51	M-v	4	Williams	38808	1999 TP ₁₅
1999 TV ₁₅	13.6	0.15	20000226	192.32742	66.96670	170.87762	4.29710	0.0842614	2.2699535	90	4	1978–2000	0.57	M-v	2	Williams	38808	1999 TV ₁₅
1999 TW ₁₅	14.4	0.15	20000226	91.64805	97.08609	206.08527	5.15080	0.1557777	3.0924763	27	2	1997–1999	0.73	M-v	4	Williams	36846	1999 TW ₁₅
1999 TY ₁₅	13.8	0.15	20000226	14.92055	203.60287	199.65900	5.69938	0.1453200	2.5648835	96	1	224 days	0.53	M-v	3	Williams	39551	1999 TY ₁₅
1999 TD ₁₆	13.5	0.15	20000226	5.54837	22.88294	15.48926	6.67264	0.1449265	3.2066916	69	1	93 days	0.59	M-v	4	Williams	38088	1999 TD ₁₆
1999 TE ₁₆	14.6	0.15	20000226	346.17948	72.05984	16.39557	12.69126	0.2418120	2.6849247	62	1	66 days	0.52	M-v	5	Williams	38088	1999 TE ₁₆
1999 TF ₁₆	13.9	0.15	20000226	170.85594	92.79263	143.45250	3.51054	0.0264401	2.7285059	55	1	98 days	0.69	M-v	5	Williams	38088	1999 TF ₁₆
1999 TG ₁₆	15.4	0.15	20000226	9.28198	199.72677	210.68911	2.69112	0.1786123	2.7329370	64	1	61 days	0.51	M-v	5	Williams	38088	1999 TG ₁₆
1999 TJ ₁₆	15.2	0.15	20000226	39.38911	301.70567	78.65776	3.62765	0.1802229	2.3797095	74	1	66 days	0.52	M-v	4	Williams	38088	1999 TJ ₁₆
1999 TK ₁₆	15.8	0.15	20000226	8.19333	350.77572	55.39410	3.18552	0.2044807	2.8804487	45	1	62 days	0.43	M-v	4	Williams	38808	1999 TK ₁₆
1999 TO ₁₆	14.0	0.15	20000226	137.49312	143.98225	110.31628	0.46167	0.1199633	3.1151098	31	2	1997–1999	0.56	M-v	5	Williams	36929	1999 TO ₁₆
1999 TP ₁₆	14.3	0.15	20000226	32.26661	177.66546	191.83248	1.51953	0.1342262	3.0861298	86	1	125 days	0.48	M-v	3	Williams	38088	1999 TP ₁₆
1999 TS ₁₆	16.2	0.15	20000226	25.37962	200.77399	211.39543	5.35245	0.1482114	2.2423561	70	1	64 days	0.43	M-v	4	Williams	38088	1999 TS ₁₆
1999 TZ ₁₆	14.3	0.15	20000226	18.47537	312.67418	74.08287	3.84900	0.2564796	2.9754045	66	1	124 days	0.57	M-v	3	Williams	38088	1999 TZ ₁₆
1999 TB ₁₇	12.8	0.15	20000226	356.70210	0.33283	68.42083	3.04770	0.2006301	3.1793323	71	3	1994–2000	0.54	M-v	2	Williams	38808	1999 TB ₁₇
1999 TC ₁₇	14.1	0.15	19991029	31.95042	302.61225	57.11293	2.53047	0.0277897	2.9030877	31	1	28 days	0.51			Williams		1999 TC ₁₇
1999 TE ₁₇	15.6	0.15	20000226	38.59215	350.61530	48.39193	7.27694	0.1004713	2.2755284	85	1	86 days	0.49	M-v	4	Williams	38088	1999 TE ₁₇
1999 TF ₁₇	14.9	0.15	20000226	4.21876	322.89782	117.15882	1.58102	0.1316347	2.4146967	82	1	111 days	0.55	M-v	4	Williams	38088	1999 TF ₁₇
1999 TG ₁₇	13.9	0.15	20000226	66.45942	299.90752	68.42304	9.28314	0.1851725	2.6028273	76	1	122 days	0.46	M-v	4	Williams	38808	1999 TG ₁₇
1999 TH ₁₇	13.2	0.15	20000226	50.10510	268.69201	92.06865	3.20230	0.1035381	2.9174118	61	1	94 days	0.51	M-v	4	Williams	38088	1999 TH ₁₇
1999 TJ ₁₇	14.5	0.15	20000226	297.98235	291.04587	197.64865	21.24707	0.2977721	2.3842576	52	2	1994–1999	0.62	M-v	4	Williams	36847	1999 TJ ₁₇
1999 TM ₁₇	13.1	0.15	20000226	317.45332	8.25086	92.22053	11.98629	0.0817558	3.0576594	58	1	101 days	0.59	M-v	4	Williams	38088	1999 TM ₁₇
1999 TN ₁₇	15.4	0.15	20000226	26.19188	260.86353	140.06644	8.86372	0.1910252	2.3134380	48	1	119 days	0.53	M-v	3	Williams	38088	1999 TN ₁₇
1999 TO ₁₇	15.5	0.15	20000226	38.26763	18.99221	30.97098	20.92611	0.1121575	1.9785252	65	2	1998–2000	0.57	M-v	3	Williams	38088	1999 TO ₁₇
1999 TQ ₁₇	16.0	0.15	20000226	326.20885	166.91509	299.12427	0.41810	0.1494835	2.3882401	37	1	60 days	0.55	M-v	5	Williams	38088	1999 TQ ₁₇
1999 TS ₁₇	15.8	0.15	20000226	3.46439	218.90953	202.93103	4.28574	0.1309209	2.3893409	73	1	66 days	0.51	M-v	5	Williams	38088	1999 TS ₁₇
1999 TX ₁₇	16.7	0.15	19991009	13.84186	176.05665	183.33743	10.31141	0.2355868	2.3704922	20	1	30 days	0.40			Williams		1999 TX ₁₇
1999 TY ₁₇	15.2	0.15	20000226	48.35104	335.17739	50.21537	4.55614	0.1889813	2.3464312	81	1	118 days	0.52	M-v	4	Williams	38808	1999 TY ₁₇
1999 TZ ₁₇	14.2	0.15	20000226	179.77688	25.83811	205.47985	11.80282	0.0565821	2.6122362	70	2	1998–1999	0.45	M-v	3	Williams	38089	1999 TZ ₁₇
1999 TB ₁₈	15.1	0.15	19991009	302.54786	71.62132	13.19583	4.00861	0.0521315	2.7098976	67	1	45 days	0.54			Williams		1999 TB ₁₈

1999 TE ₁₈	15.5	0.15	19991009	355.84781	202.94648	187.97492	12.20838	0.2537498	3.1433291	31	1	34 days	0.50		Williams		1999 TE ₁₈
1999 TJ ₁₈	13.2	0.15	20000226	15.10597	195.93932	224.58134	10.82314	0.0499136	3.0458817	95	2	1998–2000	0.56	M-v 3	Williams	39551	1999 TJ ₁₈
1999 TL ₁₈	14.7	0.15	20000226	60.11137	305.91590	47.59142	7.57855	0.1377245	2.3488292	97	2	1998–1999	0.59	M-v 3	Williams	38089	1999 TL ₁₈
1999 TQ ₁₈	15.1	0.15	20000226	76.45679	300.55893	16.92863	4.25059	0.2175782	2.5958687	82	3	1997–1999	0.63	M-v 3	Williams	38808	1999 TQ ₁₈
1999 TR ₁₈	13.6	0.15	20000226	10.34545	35.49141	8.52074	1.80167	0.1091277	2.9230409	85	1	97 days	0.52	M-v 4	Williams	38808	1999 TR ₁₈
1999 TT ₁₈	15.7	0.15	20000226	154.54101	231.84446	29.47547	8.73004	0.1710042	2.2662083	46	2	1998–1999	0.62	M-v 4	Williams	38089	1999 TT ₁₈
1999 TU ₁₈	14.2	0.15	20000226	56.24963	326.74127	20.75413	25.41703	0.2454308	2.3912051	101	3	1988–2000	0.61	M-v 2	Williams	38808	1999 TU ₁₈
1999 TV ₁₈	14.1	0.15	19991009	308.81564	237.11977	215.39605	9.62513	0.1450168	3.0418901	36	1	46 days	0.47		Williams		1999 TV ₁₈
1999 TY ₁₈	14.4	0.15	20000226	4.15187	229.71330	215.86828	1.37606	0.1832490	2.3870946	117	5	1982–2000	0.44	M-v 1	Williams	39551	1999 TY ₁₈
1999 TZ ₁₈	14.2	0.15	20000226	14.44895	253.52797	164.37616	2.45276	0.1359151	2.2879209	61	1	94 days	0.43	M-v 4	Williams	38089	1999 TZ ₁₈
1999 TB ₁₉	15.2	0.15	19991009	341.81381	208.52299	205.85678	4.91580	0.1593026	2.9448967	42	1	40 days	0.77		Williams		1999 TB ₁₉
1999 TC ₁₉	15.5	0.15	19991009	33.47908	130.56546	208.43886	11.76284	0.2016857	2.6536707	39	1	43 days	0.77		Williams		1999 TC ₁₉
1999 TF ₁₉	15.1	0.15	20000226	49.65843	294.76855	56.76418	13.34858	0.1723054	2.6893992	42	1	90 days	0.54	M-v 4	Williams	38089	1999 TF ₁₉
1999 TG ₁₉	14.0	0.15	20000226	115.89635	354.10369	300.64043	3.66487	0.0160496	2.6969608	72	4	1991–2000	0.57	M-v 2	Williams	38809	1999 TG ₁₉
1999 TH ₁₉	15.0	0.15	20000226	62.58396	316.37743	30.81484	15.06018	0.1992544	2.5766437	74	1	70 days	0.51	M-v 4	Williams	38089	1999 TH ₁₉
1999 TJ ₁₉	15.3	0.15	20000226	53.75255	337.75253	24.89748	3.07603	0.2130803	2.5695385	81	1	65 days	0.53	M-v 4	Williams	38089	1999 TJ ₁₉
1999 TK ₁₉	14.0	0.15	20000226	50.83946	315.09840	45.43229	3.30780	0.1450651	2.5909651	53	2	1998–2000	0.60	M-v 3	Williams	38089	1999 TK ₁₉
1999 TL ₁₉	14.3	0.15	20000226	100.95313	133.28631	173.67970	4.78061	0.0856798	2.6243030	54	4	1995–1999	0.51	M-v 1	Williams	39316	1999 TL ₁₉
1999 TO ₁₉	14.7	0.15	20000226	243.36548	328.84280	205.63066	4.76261	0.0963663	2.2254071	75	4	1988–1999	0.52	M-v 2	Williams	38089	1999 TO ₁₉
1999 TC ₂₀	13.9	0.15	20000226	69.39444	201.53626	133.38627	4.60989	0.0774579	3.0401980	34	1	93 days	0.55	M-v 5	Williams	38089	1999 TC ₂₀
1999 TE ₂₀	15.2	0.15	19991009	358.03700	203.67300	183.88464	10.82693	0.1330982	3.0507722	17	1	15 days	0.57		Williams		1999 TE ₂₀
1999 TG ₂₀	13.8	0.15	20000226	14.78592	347.87761	61.85214	2.99956	0.0309813	2.9439882	95	2	1997–2000	0.61	M-v 3	Williams	38089	1999 TG ₂₀
1999 TH ₂₀	14.6	0.15	20000226	54.35155	236.70026	124.50050	4.55326	0.2561575	2.5956952	61	2	1998–2000	0.60	M-v 4	Williams	38809	1999 TH ₂₀
1999 TO ₂₀	14.5	0.15	20000226	82.07463	108.73270	210.53408	1.19175	0.0612222	2.7320307	54	1	82 days	0.56	M-v 5	Williams	38089	1999 TO ₂₀
1999 TP ₂₀	15.0	0.15	20000226	17.23739	8.08774	22.20403	2.50270	0.1206449	2.9635733	45	1	65 days	0.59	M-v 5	Williams	38089	1999 TP ₂₀
1999 TQ ₂₀	16.8	0.15	19991009	27.14787	312.62641	24.17591	2.73000	0.2041235	2.3563322	31	1	41 days	0.73		Williams		1999 TQ ₂₀
1999 TV ₂₀	17.0	0.15	19991009	6.38291	165.59591	197.36405	9.69759	0.3178218	2.6898463	30	1	34 days	0.51		Williams		1999 TV ₂₀
1999 TY ₂₀	16.7	0.15	19991009	3.11137	159.14000	216.55895	7.49654	0.3095269	2.6652567	47	1	45 days	0.63		Williams		1999 TY ₂₀
1999 TA ₂₁	14.0	0.15	20000226	344.74185	89.92194	345.28446	3.28437	0.0774630	2.9442601	99	2	1994–2000	0.45	M-v 4	Williams	38809	1999 TA ₂₁
1999 TB ₂₁	15.7	0.15	20000226	341.38678	101.49522	354.71702	3.67039	0.1283147	2.3074659	68	2	1997–1999	0.51	M-v 4	Williams	38809	1999 TB ₂₁
1999 TD ₂₁	14.6	0.15	19990919	341.70446	59.42618	353.40721	9.80652	0.2289542	2.8099758	12	1	2 days	0.41		E Williams		1999 TD ₂₁
1999 TG ₂₁	15.0	0.15	20000226	21.95814	37.00804	36.17592	25.38837	0.3104106	2.3157147	31	1	174 days	0.45	M-v 3	Williams	38809	1999 TG ₂₁
1999 TH ₂₁	14.1	0.15	20000226	113.77823	270.23635	9.25346	5.97416	0.2278352	2.2413362	76	3	1996–2000	0.53	M-v 2	Williams	37823	1999 TH ₂₁
1999 TL ₂₁	14.6	0.15	20000226	268.32909	300.15994	187.74146	0.23135	0.1305218	3.1868893	38	2	1996–1999	0.50	M-v 4	Williams	37190	1999 TL ₂₁
1999 TP ₂₁	14.9	0.15	20000226	31.76544	339.94100	48.28559	14.59173	0.2441410	3.1820158	58	1	72 days	0.51	M-v 4	Williams	38809	1999 TP ₂₁
1999 TQ ₂₁	14.5	0.15	20000226	351.64748	27.41599	56.27965	11.15366	0.0732172	2.9980734	48	1	71 days	0.44	M-v 4	Williams	38089	1999 TQ ₂₁
1999 TS ₂₁	15.3	0.15	20000226	37.10289	333.09418	50.11525	18.52957	0.2107490	3.1551798	38	1	67 days	0.46	M-v 4	Williams	39551	1999 TS ₂₁
1999 TU ₂₁	16.0	0.15	20000226	52.81220	319.61459	51.11876	13.79308	0.2088246	2.6015443	31	1	64 days	0.60	M-v 5	Williams	38809	1999 TU ₂₁
1999 TX ₂₁	14.9	0.15	19990919	300.90553	53.38605	25.06173	5.83906	0.1236832	2.7480311	14	1	4 days	0.53		E Williams		1999 TX ₂₁
1999 TC ₂₃	15.3	0.15	19990919	297.52435	333.29916	109.28663	2.19323	0.1163133	2.3816120	22	1	5 days	0.54		E Williams		1999 TC ₂₃
1999 TH ₂₄	14.7	0.15	20000226	333.87951	288.47274	187.15212	20.48055	0.3112063	2.2863777	43	2	1997–1999	0.42	M-v 3	Williams	38090	1999 TH ₂₄
1999 TW ₂₄	15.6	0.15	20000226	348.66568	97.35626	335.13770	1.77512	0.1850650	2.3702805	52	2	1997–1999	0.46	M-v 4	Williams	38809	1999 TW ₂₄
1999 TY ₂₄	14.6	0.15	19990919	336.76966	201.75888	188.50656	11.25641	0.1068786	3.0635807	20	1	16 days	0.51		Williams		1999 TY ₂₄
1999 TE ₂₅	15.9	0.15	20000226	6.02754	208.85302	214.55319	5.21407	0.1232793	2.3446270	47	2	1995–1999	0.51	M-v 4	Williams	38809	1999 TE ₂₅
1999 TG ₂₅	13.4	0.15	20000226	117.00367	261.81173	13.96127	7.45486	0.1949334	2.8000665	73	2	1993–1999	0.54	M-v 5	Williams	38809	1999 TG ₂₅
1999 TH ₂₅	16.1	0.15	19991009	24.15386	332.71323	16.67352	12.82344	0.1791435	2.6614142	15	1	29 days	0.40		Williams		1999 TH ₂₅
1999 TK ₂₅	14.4	0.15	20000226	184.88099	228.08833	0.90009	2.99731	0.1602237	2.4358435	52	2	1995–1999	0.45	M-v 5	Williams	39316	1999 TK ₂₅
1999 TM ₂₅	15.0	0.15	20000226	77.59613	94.55330	225.10707	3.44433	0.2111367	2.6155848	82	2	1998–1999	0.57	M-v 4	Williams	38809	1999 TM ₂₅
1999 TN ₂₅	13.7	0.15	20000226	337.73670	82.97715	6.81240	3.35272	0.1087359	2.7602919	93	1	115 days	0.42	M-v 4	Williams	38809	1999 TN ₂₅
1999 TO ₂₅	15.7	0.15	19991009	43.05704	90.70293	228.43175	3.06892	0.2411853	2.5620853	45	1	45 days	0.52		Williams		1999 TO ₂₅
1999 TQ ₂₅	14.7	0.15	20000226	200.97383	8.02533	211.31636	8.93005	0.0770419	2.4482610	67	2	1998–1999	0.53	M-v 4	Williams	38809	1999 TQ ₂₅
1999 TT ₂₅	15.8	0.15	20000226	55.25074	352.26881	13.99701	5.64471	0.1663464	2.1820805	92	1	96 days	0.45	M-v 4	Williams	38809	1999 TT ₂₅
1999 TW ₂₅	16.5	0.15	19991009	11.75742	113.87647	252.86082	0.45162	0.2154944	2.5622357	31	1	42 days	0.52		Williams		1999 TW ₂₅

1999 TY ₂₅	13.8	0.15	20000226	53.03229	330.60074	24.84347	16.58369	0.0923731	3.1029250	84	2	1977–2000	0.59	M-v	4	Williams	38809	1999 TY ₂₅
1999 TZ ₂₅	15.2	0.15	20000226	78.27625	320.89216	16.28562	6.89283	0.1315092	2.2783721	63	2	1998–2000	0.60	M-v	4	Williams	38809	1999 TZ ₂₅
1999 TB ₂₆	14.4	0.15	20000226	65.16687	324.71421	14.99999	5.31751	0.1648604	2.7631829	87	2	1976–2000	0.55	M-v	4	Williams	38090	1999 TB ₂₆
1999 TE ₂₆	15.0	0.15	20000226	23.32302	24.53467	21.25290	10.85892	0.1034657	2.3405936	83	1	114 days	0.51	M-v	3	Williams	38090	1999 TE ₂₆
1999 TF ₂₆	14.7	0.15	20000226	12.86306	193.50514	218.00632	3.56187	0.1183335	2.6965771	67	2	1997–2000	0.55	M-v	3	Williams	38809	1999 TF ₂₆
1999 TH ₂₆	14.4	0.15	20000226	316.28893	277.92278	215.31836	10.05260	0.1981444	2.3855560	79	1	98 days	0.60	M-v	4	Williams	38809	1999 TH ₂₆
1999 TJ ₂₆	15.4	0.15	20000226	31.34935	175.57249	220.82359	3.71907	0.1551223	2.3789581	61	1	96 days	0.66	M-v	4	Williams	38090	1999 TJ ₂₆
1999 TL ₂₆	14.4	0.15	20000226	29.95953	166.95632	218.14516	9.91345	0.1447683	3.0671000	99	3	1997–2000	0.61	M-v	3	Williams	38090	1999 TL ₂₆
1999 TN ₂₆	14.8	0.15	20000226	85.83732	294.83896	10.46736	5.37648	0.2617028	2.5836028	95	3	1995–1999	0.58	M-v	3	Williams	38566	1999 TN ₂₆
1999 TP ₂₆	13.8	0.15	20000226	68.34695	123.07167	217.52530	9.40803	0.0793774	3.0889296	49	1	63 days	0.58	M-v	5	Williams	38809	1999 TP ₂₆
1999 TQ ₂₆	14.5	0.15	20000226	330.41441	132.99958	323.75264	1.12742	0.0470528	2.6243183	55	1	93 days	0.51	M-v	5	Williams	38809	1999 TQ ₂₆
1999 TT ₂₆	16.1	0.15	19991009	31.98386	319.91326	17.97260	3.38673	0.2319531	2.6683839	31	1	44 days	0.52			Williams		1999 TT ₂₆
1999 TU ₂₆	14.1	0.15	20000226	4.70403	201.82074	219.49378	12.78862	0.1549313	3.0110040	89	1	94 days	0.57	M-v	4	Williams	38090	1999 TU ₂₆
1999 TV ₂₆	15.8	0.15	20000226	42.58589	43.36781	336.66288	1.53248	0.2076013	2.3840087	59	1	93 days	0.38	M-v	4	Williams	38090	1999 TV ₂₆
1999 TW ₂₆	15.1	0.15	19991009	54.27508	300.51739	17.87378	5.81035	0.1868983	3.0386955	34	1	44 days	0.57			Williams		1999 TW ₂₆
1999 TX ₂₆	14.5	0.15	20000226	48.30910	45.10130	323.47598	1.18107	0.0844608	2.8677891	75	1	65 days	0.57	M-v	4	Williams	38090	1999 TX ₂₆
1999 TZ ₂₆	15.6	0.15	20000226	19.86114	28.80798	23.61150	6.68369	0.1487509	2.3835488	73	1	114 days	0.52	M-v	4	Williams	38090	1999 TZ ₂₆
1999 TC ₂₇	14.1	0.15	20000226	324.28607	259.10129	223.65999	6.31984	0.1474826	2.3361516	109	3	1992–2000	0.49	M-v	2	Williams	38809	1999 TC ₂₇
1999 TE ₂₇	14.8	0.15	20000226	49.16944	340.80288	26.98022	14.13823	0.1889794	2.5797994	67	1	107 days	0.48	M-v	4	Williams	38090	1999 TE ₂₇
1999 TG ₂₇	14.9	0.15	20000226	27.75354	8.50665	30.42999	10.16518	0.1643593	2.6671289	70	1	110 days	0.52	M-v	3	Williams	38809	1999 TG ₂₇
1999 TH ₂₇	15.0	0.15	20000226	39.67494	354.28108	21.61211	7.01125	0.2362600	2.8007090	58	1	95 days	0.44	M-v	4	Williams	38090	1999 TH ₂₇
1999 TJ ₂₇	14.3	0.15	20000226	93.87379	326.62052	358.53187	1.93278	0.0742751	2.6741905	75	2	1997–1999	0.48	M-v	4	Williams	39316	1999 TJ ₂₇
1999 TK ₂₇	14.0	0.15	20000226	198.95138	9.85634	222.61585	6.48214	0.0794102	2.3121187	106	4	1960–2000	0.52	M-v	3	Williams	38809	1999 TK ₂₇
1999 TL ₂₇	14.3	0.15	20000226	3.82501	100.81087	323.31628	1.12480	0.0764674	2.9282419	75	1	95 days	0.55	M-v	4	Williams	38090	1999 TL ₂₇
1999 TM ₂₇	14.4	0.15	20000226	76.19883	348.61076	355.44236	1.82610	0.0740807	2.7242407	85	4	1990–2000	0.51	M-v	1	Williams	38090	1999 TM ₂₇
1999 TN ₂₇	14.0	0.15	20000226	342.22206	228.16638	225.32448	4.48725	0.1547153	3.1451665	86	1	96 days	0.55	M-v	4	Williams	38809	1999 TN ₂₇
1999 TP ₂₇	14.2	0.15	20000226	346.10593	60.03356	25.17509	2.85445	0.0325896	2.7188806	83	2	1990–2000	0.53	M-v	4	Williams	38090	1999 TP ₂₇
1999 TQ ₂₇	13.9	0.15	20000226	248.42370	321.89344	231.69725	3.95241	0.0740940	2.2490130	102	4	1989–2000	0.60	M-v	2	Williams	38090	1999 TQ ₂₇
1999 TS ₂₇	13.0	0.15	20000226	257.37264	146.18082	32.16545	11.18330	0.0695210	2.9523678	81	1	120 days	0.50	M-v	4	Williams	38809	1999 TS ₂₇
1999 TU ₂₇	15.7	0.15	19991009	39.99636	308.16064	36.10344	14.01540	0.1725404	2.6262267	16	1	37 days	0.43			Williams		1999 TU ₂₇
1999 TW ₂₇	14.7	0.15	20000226	35.55440	111.43409	293.67122	1.30047	0.2071199	2.3968418	75	1	153 days	0.49	M-v	3	Williams	39551	1999 TW ₂₇
1999 TX ₂₇	12.6	0.15	20000226	33.84954	348.96319	44.68523	16.00496	0.2315664	3.1026405	53	1	73 days	0.43	M-v	4	Williams	38809	1999 TX ₂₇
1999 TY ₂₇	15.5	0.15	20000226	32.54103	33.87617	9.17094	2.85148	0.3006136	2.5969521	63	1	131 days	0.52	M-v	4	Williams	38809	1999 TY ₂₇
1999 TZ ₂₇	14.0	0.15	20000226	340.90226	84.93243	41.56155	12.38706	0.2627524	2.7849674	55	1	91 days	0.43	M-v	4	Williams	38090	1999 TZ ₂₇
1999 TA ₂₈	16.2	0.15	20000226	58.51504	356.30048	0.28290	2.59821	0.1864186	2.4362247	59	2	1995–1999	0.60	M-v	4	Williams	39316	1999 TA ₂₈
1999 TD ₂₈	15.9	0.15	20000226	74.88910	331.38432	6.16146	2.54383	0.1898297	2.3329568	53	2	1996–1999	0.50	M-v	4	Williams	38090	1999 TD ₂₈
1999 TH ₂₈	16.1	0.15	20000226	66.17031	83.22907	263.76401	1.12371	0.2271004	2.3656935	61	2	1977–1999	0.56	M-v	4	Williams	38566	1999 TH ₂₈
1999 TL ₂₈	14.3	0.15	19990919	141.54172	18.27083	192.77303	9.74990	0.1457095	2.7773225	25	1	7 days	0.93			E Williams		1999 TL ₂₈
1999 TV ₂₈	15.0	0.15	20000226	22.44356	167.76306	210.59888	1.46999	0.0926289	2.7544070	50	1	91 days	0.64	M-v	4	Williams	38090	1999 TV ₂₈
1999 TW ₂₈	15.4	0.15	20000226	351.55037	230.93996	198.74828	2.53413	0.1019135	2.2174679	74	3	1976–1999	0.58	M-v	3	Williams	38090	1999 TW ₂₈
1999 TX ₂₈	15.9	0.15	20000226	26.37738	29.15821	359.02911	6.67379	0.1473716	2.3061298	45	1	66 days	0.50	M-v	5	Williams	37307	1999 TX ₂₈
1999 TC ₂₉	14.1	0.15	19990919	246.24525	120.85928	2.50512	10.89224	0.0342875	3.2036995	17	1	6 days	0.65			E Williams		1999 TC ₂₉
1999 TD ₂₉	14.4	0.15	20000226	306.27037	270.31178	200.82650	4.68826	0.0980554	2.4371132	57	1	91 days	0.47	M-v	4	Williams	38090	1999 TD ₂₉
1999 TF ₂₉	14.0	0.15	20000226	120.72736	69.91277	207.37031	4.21532	0.0781024	2.4066855	89	3	1980–1999	0.63	M-v	2	Williams	38091	1999 TF ₂₉
1999 TG ₂₉	14.4	0.15	20000226	357.94750	215.84103	195.45108	11.44030	0.1306613	2.7608887	67	1	91 days	0.64	M-v	4	Williams	38091	1999 TG ₂₉
1999 TN ₂₉	17.0	0.15	20000226	37.82662	173.99095	198.65759	4.73645	0.2339753	2.3536331	33	1	66 days	0.64	M-v	4	Williams		1999 TN ₂₉
1999 TO ₂₉	15.8	0.15	20000226	55.99751	136.94035	200.85347	4.66161	0.2055744	2.5537361	54	2	1995–1999	0.60	M-v	4	Williams	38091	1999 TO ₂₉
1999 TP ₂₉	15.4	0.15	20000226	35.95955	156.01923	212.18040	1.60544	0.1214045	2.5317352	47	1	91 days	0.57	M-v	4	Williams	38091	1999 TP ₂₉
1999 TX ₂₉	17.1	0.15	19990919	340.79085	31.56076	3.80785	3.12755	0.2428302	2.3835302	17	1	6 days	0.41			E Williams		1999 TX ₂₉
1999 TC ₃₀	15.0	0.15	20000226	66.19758	115.40052	196.94956	8.17360	0.2414537	2.8654884	32	2	1998–1999	0.59	M-v	5	Williams	39316	1999 TC ₃₀
1999 TF ₃₀	14.9	0.15	20000226	343.51810	117.11020	325.41821	1.63005	0.1649349	2.4089171	53	1	68 days	0.49	M-v	5	Williams	38091	1999 TF ₃₀
1999 TP ₃₀	15.7	0.15	20000226	30.50420	63.11052	319.42061	1.24094	0.2129683	2.4582765	55	2	1995–1999	0.48	M-v	4	Williams	39317	1999 TP ₃₀
1999 TR ₃₀	14.0	0.15	20000226	28.38062	72.94814	301.67518	0.87369	0.0207363	2.8451596	67	2	1992–1999	0.58	M-v	4	Williams	37823	1999 TR ₃₀

1999 TU ₃₀	16.0	0.15	20000226	13.27119	69.97629	338.92613	1.77454	0.1738110	2.4158043	60	3	1995–1999	0.55	M-v	3	Williams	38091	1999 TU ₃₀
1999 TV ₃₀	14.0	0.15	20000226	136.33185	57.81198	198.21381	12.63052	0.1377103	2.6891081	82	2	1998–1999	0.47	M-v	3	Williams	38091	1999 TV ₃₀
1999 TX ₃₀	15.1	0.15	20000226	140.70638	43.44603	223.34749	1.90796	0.0929176	2.2061154	101	3	1996–1999	0.50	M-v	3	Williams	38091	1999 TX ₃₀
1999 TY ₃₀	14.6	0.15	19990919	293.31761	128.81944	313.41146	2.00322	0.0391852	2.6862711	17	1	12 days	0.21			Williams		1999 TY ₃₀
1999 TZ ₃₀	16.6	0.15	19991009	31.98300	353.66785	332.56308	2.05536	0.2249303	2.4255239	19	1	29 days	0.45			Williams		1999 TZ ₃₀
1999 TB ₃₁	17.2	0.15	19990919	7.57114	47.08349	307.07559	1.41185	0.2466844	2.4079543	20	1	25 days	0.47			Williams		1999 TB ₃₁
1999 TC ₃₁	13.3	0.15	20000226	85.51885	294.67412	9.11704	13.08488	0.1074861	3.1757012	70	2	1997–2000	0.64	M-v	3	Williams	38091	1999 TC ₃₁
1999 TE ₃₁	13.8	0.15	20000226	1.32650	44.90798	10.31260	14.97822	0.1227079	2.6490619	78	2	1997–2000	0.45	M-v	3	Williams	38091	1999 TE ₃₁
1999 TG ₃₁	14.8	0.15	19991009	7.43321	354.12467	12.49492	16.44344	0.1452299	2.7371362	13	1	9 days	0.26			Williams		1999 TG ₃₁
1999 TJ ₃₁	15.2	0.15	19990919	42.35088	346.37617	337.00632	1.11585	0.0681301	2.6861458	17	1	5 days	0.66		E	Williams		1999 TJ ₃₁
1999 TK ₃₁	14.1	0.15	20000226	4.78779	37.52571	7.75847	5.07121	0.1717478	3.1146286	61	1	124 days	0.53	M-v	4	Williams	38091	1999 TK ₃₁
1999 TR ₃₁	16.5	0.15	20000226	26.18245	177.93794	215.44880	2.48999	0.1815395	2.4163307	49	1	66 days	0.49	M-v	4	Williams	38091	1999 TR ₃₁
1999 TS ₃₁	15.8	0.15	20000226	91.85023	90.67912	211.41698	3.62667	0.2072099	2.3713940	33	1	62 days	0.49	M-v	5	Williams	38091	1999 TS ₃₁
1999 TT ₃₁	15.9	0.15	19991009	191.24216	179.41505	9.32536	6.82746	0.0648152	2.2513326	11	1	9 days	0.61			Williams		1999 TT ₃₁
1999 TW ₃₁	14.8	0.15	20000226	42.51222	135.81964	227.33436	1.18502	0.0824345	2.8635310	45	2	1994–1999	0.60	M-v	5	Williams	37823	1999 TW ₃₁
1999 TY ₃₁	15.0	0.15	19991009	14.40860	342.76825	17.89608	19.61939	0.1564304	3.1524232	24	1	32 days	0.39			Williams		1999 TY ₃₁
1999 TA ₃₂	15.4	0.15	20000226	86.01049	109.27881	208.04463	8.16613	0.0887975	2.6592474	33	1	65 days	0.52	M-v	5	Williams	38091	1999 TA ₃₂
1999 TB ₃₂	15.5	0.15	19991009	352.06913	16.82921	13.80198	12.76234	0.1245805	2.6299145	39	1	35 days	0.59			Williams		1999 TB ₃₂
1999 TF ₃₂	14.7	0.15	19991009	333.64850	34.31383	16.43574	10.65489	0.0573634	3.0902857	38	1	43 days	0.63			Williams		1999 TF ₃₂
1999 TG ₃₂	14.0	0.15	20000226	286.59650	299.84803	206.35223	4.22105	0.1775356	2.6602309	74	3	1982–1999	0.65	M-v	3	Williams	38091	1999 TG ₃₂
1999 TH ₃₂	15.8	0.15	19991009	279.46271	108.28701	4.28258	5.38876	0.0891726	2.2653202	42	1	45 days	0.68			Williams		1999 TH ₃₂
1999 TJ ₃₂	13.9	0.15	20000226	319.28627	114.10948	342.47760	2.02165	0.0592225	3.0240545	64	2	1996–1999	0.55	M-v	4	Williams	38810	1999 TJ ₃₂
1999 TM ₃₂	14.7	0.15	20000226	19.21886	206.38492	207.13999	3.74655	0.2344927	2.3447719	98	1	168 days	0.45	M-v	3	Williams	38810	1999 TM ₃₂
1999 TN ₃₂	15.4	0.15	20000226	36.90152	10.15077	14.55147	5.43647	0.2052968	2.3523405	94	4	1981–2000	0.41	M-v	2	Williams	38810	1999 TN ₃₂
1999 TO ₃₂	14.4	0.15	19990919	261.62513	147.63852	335.59258	2.47521	0.1934103	2.6875693	12	1	4 days	1.08		E	Williams		1999 TO ₃₂
1999 TW ₃₂	14.6	0.15	20000226	67.58331	125.30691	197.14812	8.69322	0.1580394	2.8162981	38	2	1997–1999	0.53	M-v	4	Williams	37824	1999 TW ₃₂
1999 TX ₃₂	13.5	0.15	20000226	143.79980	11.46018	236.34052	1.03332	0.0703421	3.1737383	52	3	1997–1999	0.70	M-v	3	Williams	38091	1999 TX ₃₂
1999 TD ₃₃	16.8	0.15	19990919	34.44447	341.56740	339.48140	2.25201	0.1738506	2.3747676	19	1	25 days	0.63			Williams		1999 TD ₃₃
1999 TE ₃₃	16.2	0.15	19990919	206.15537	178.31964	348.96723	2.78135	0.0595427	2.1848892	15	1	12 days	0.45			Williams		1999 TE ₃₃
1999 TG ₃₃	14.0	0.15	19990919	169.99309	188.12756	12.79388	14.03267	0.2472910	2.6814953	15	1	12 days	0.46			Williams		1999 TG ₃₃
1999 TH ₃₃	18.0	0.15	20000226	60.75290	135.53258	206.71705	3.29993	0.2566931	2.2647286	26	1	60 days	0.42	M-v	5	Williams	37307	1999 TH ₃₃
1999 TN ₃₃	15.6	0.15	20000226	85.45046	78.74019	216.10823	3.59042	0.2786653	2.5891247	33	1	62 days	0.51	M-v	5	Williams	38091	1999 TN ₃₃
1999 TO ₃₃	15.3	0.15	19990919	80.00696	340.97990	307.59811	1.81994	0.0456049	2.6964065	15	1	12 days	0.46			Williams		1999 TO ₃₃
1999 TP ₃₃	14.8	0.15	20000226	49.18334	138.22824	202.10636	16.40707	0.2346144	3.1286856	34	1	71 days	0.69	M-v	4	Williams		1999 TP ₃₃
1999 TQ ₃₃	14.4	0.15	20000226	311.40324	260.29289	213.91304	3.19240	0.1165255	2.6306918	72	2	1997–1999	0.55	M-v	4	Williams	38810	1999 TQ ₃₃
1999 TR ₃₃	14.9	0.15	20000226	21.85474	180.55569	206.75515	9.94182	0.1441517	2.9623698	57	1	76 days	0.57	M-v	4	Williams	38091	1999 TR ₃₃
1999 TW ₃₃	15.3	0.15	19991009	66.35108	287.54996	12.85911	4.67334	0.1424256	2.7439126	34	1	43 days	0.64			Williams		1999 TW ₃₃
1999 TZ ₃₃	14.8	0.15	20000226	15.90671	173.17770	217.93662	2.43186	0.1330691	2.9002500	61	3	1996–1999	0.50	M-v	3	Williams	38091	1999 TZ ₃₃
1999 TD ₃₄	13.2	0.15	20000226	89.43861	291.64917	40.76935	13.57791	0.2132799	2.5557573	77	2	1998–2000	0.62	M-v	4	Williams	38091	1999 TD ₃₄
1999 TO ₃₄	17.2	0.15	19990919	347.76668	210.99125	180.38904	11.70616	0.3463827	2.7199959	18	1	11 days	0.45			Williams		1999 TO ₃₄
1999 TP ₃₄	17.0	0.15	19990919	3.65136	336.91624	21.80683	12.65585	0.2934355	2.5556953	12	1	5 days	0.53		E	Williams		1999 TP ₃₄
1999 TQ ₃₄	14.5	0.15	20000226	99.52934	255.19752	30.74064	13.15695	0.2374924	2.3309048	63	2	1998–1999	0.43	M-v	4	Williams	38091	1999 TQ ₃₄
1999 TS ₃₄	15.3	0.15	20000226	31.20248	346.55627	31.40246	15.90687	0.1568285	2.6330651	52	1	66 days	0.50	M-v	4	Williams	38091	1999 TS ₃₄
1999 TU ₃₄	16.1	0.15	20000226	37.65696	25.44835	9.87143	18.13640	0.0786504	1.9628405	45	2	1998–1999	0.63	M-v	4	Williams	36854	1999 TU ₃₄
1999 TW ₃₄	15.6	0.15	20000226	317.80329	283.80319	206.54339	21.47045	0.1366811	1.9514298	68	1	100 days	0.58	M-v	4	Williams	38810	1999 TW ₃₄
1999 TZ ₃₄	15.8	0.15	19990919	29.78036	313.90417	10.64001	12.84232	0.2898956	2.3296157	24	1	44 days	0.37			Williams		1999 TZ ₃₄
1999 TA ₃₅	15.7	0.15	19991009	64.88915	99.42211	214.05286	20.99840	0.0665496	1.9374942	18	1	13 days	0.32			Williams		1999 TA ₃₅
1999 TB ₃₅	15.1	0.15	20000226	339.56939	91.15776	18.71368	20.22967	0.1048206	1.9570231	42	1	115 days	0.39	M-v	4	Williams	38810	1999 TB ₃₅
1999 TD ₃₅	14.8	0.15	20000226	144.30732	44.99573	194.97951	24.05974	0.1983090	2.2852730	27	1	69 days	0.49	M-v	5	Williams	38810	1999 TD ₃₅
1999 TG ₃₅	17.1	0.15	19991009	333.86795	36.58501	7.52727	18.36517	0.0954270	1.9386512	14	1	12 days	0.41			Williams		1999 TG ₃₅
1999 TH ₃₅	14.3	0.15	20000226	297.73567	137.32919	3.52155	24.14300	0.2717121	2.3377106	49	1	91 days	0.48	M-v	4	Williams	38810	1999 TH ₃₅
1999 TL ₃₅	16.0	0.15	19991009	47.70502	310.99964	8.89731	19.60970	0.0612478	1.9385804	27	1	32 days	0.36			Williams		1999 TL ₃₅
1999 TO ₃₅	15.7	0.15	19991009	358.33238	359.57185	19.35498	13.57692	0.2944133	2.6417215	34	1	34 days	0.41			Williams		1999 TO ₃₅

1999 TP ₃₅	15.5	0.15	19990919	351.65634	192.41811	189.99446	28.00727	0.1639907	2.6124538	17	1	5 days	0.45	E	Williams	1999 TP ₃₅
1999 TQ ₃₅	14.8	0.15	19991009	30.75416	322.20772	8.37412	18.50124	0.2222364	2.7583785	22	1	19 days	0.31		Williams	1999 TQ ₃₅
1999 TR ₃₅	13.9	0.15	20000226	203.60954	181.68115	25.80296	24.84055	0.1530123	2.4070287	69	2	1953–2000	0.60	M-v 4	Williams	38091 1999 TR ₃₅
1999 TS ₃₅	15.0	0.15	19990919	282.00903	274.56576	188.15762	20.79954	0.0783891	2.5181508	17	1	4 days	0.49	E	Williams	1999 TS ₃₅
1999 TW ₃₅	15.7	0.15	20000226	275.01470	140.55988	7.64454	7.43568	0.0734437	2.2497863	27	2	1991–1999	0.55	M-v 4	Williams	38566 1999 TW ₃₅
1999 TX ₃₅	16.7	0.15	19991009	11.26844	348.14892	19.47133	13.18756	0.1683969	2.3389219	36	1	34 days	0.50		Williams	1999 TX ₃₅
1999 TY ₃₅	16.2	0.15	20000226	19.99726	202.94984	206.39293	2.60880	0.1913828	2.2941371	56	1	64 days	0.56	M-v 5	Williams	38810 1999 TY ₃₅
1999 UA	16.0	0.15	20000226	50.30892	124.96282	245.57683	4.43891	0.2395497	2.3196022	68	1	91 days	0.51	M-v 4	Williams	38091 1999 UA
1999 UD	14.6	0.15	20000226	90.39673	104.64233	198.28698	7.18040	0.1989976	2.2559101	85	4	1982–2000	0.56	M-v 1	Williams	38091 1999 UD
1999 UE	13.8	0.15	20000226	46.36506	354.95998	345.51901	0.85291	0.1894382	3.1490658	64	1	93 days	0.54	M-v 4	Williams	38091 1999 UE
1999 UF	13.3	0.15	20000226	294.76690	101.83331	18.60871	4.92527	0.0997820	3.2033316	62	1	98 days	0.50	M-v 5	Williams	38091 1999 UF
1999 UG	15.7	0.15	20000226	36.25798	351.76010	28.49143	1.92149	0.1942839	2.3957743	82	1	73 days	0.50	M-v 4	Williams	38091 1999 UG
1999 UK	15.2	0.15	20000226	21.18140	138.84483	259.97990	1.22159	0.1694064	2.5459490	63	1	66 days	0.49	M-v 4	Williams	38810 1999 UK
1999 UO	14.6	0.15	20000226	24.40237	177.78931	205.96404	10.68328	0.1176974	3.0666485	94	2	1997–1999	0.61	M-v 3	Williams	38092 1999 UO
1999 UP	15.3	0.15	20000226	91.31674	116.46985	198.99317	6.33888	0.1309764	2.3726539	48	2	1998–1999	0.66	M-v 4	Williams	38092 1999 UP
1999 UU	15.2	0.15	19991009	25.55152	146.21397	214.22273	14.23955	0.1994229	2.5814524	19	1	30 days	0.84		Williams	1999 UU
1999 UV	15.2	0.15	20000226	15.65547	18.27374	29.61675	6.65553	0.1264556	2.4094025	88	1	96 days	0.60	M-v 4	Williams	38092 1999 UV
1999 UW	14.9	0.15	20000226	23.91548	215.43598	173.96511	1.98920	0.0931816	2.7598297	48	3	1994–1999	0.56	M-v 4	Williams	37824 1999 UW
1999 UZ	13.6	0.15	20000226	93.05939	260.20135	43.78594	1.47163	0.1569785	3.2276663	36	2	1993–1999	0.58	M-v 5	Williams	38810 1999 UZ
1999 UA ₁	14.9	0.15	20000226	69.39905	298.77060	34.17153	7.52681	0.2521294	2.4275195	79	1	91 days	0.47	M-v 4	Williams	38810 1999 UA ₁
1999 UC ₁	13.3	0.15	20000226	63.34981	309.42123	34.87018	12.41066	0.1955114	2.5744611	128	3	1988–2000	0.47	M-v 2	Williams	38810 1999 UC ₁
1999 UD ₁	14.6	0.15	20000226	166.28493	207.54449	44.30886	6.62342	0.1331479	2.3005874	98	3	1992–1999	0.56	M-v 3	Williams	38810 1999 UD ₁
1999 UE ₁	15.0	0.15	20000226	87.72097	262.46471	62.90110	3.22188	0.1535431	2.2691102	76	2	1998–2000	0.69	M-v 4	Williams	38810 1999 UE ₁
1999 UF ₁	13.9	0.15	20000226	354.11253	42.77573	34.07981	17.11252	0.2103077	3.1188206	80	2	1977–2000	0.49	M-v 4	Williams	38810 1999 UF ₁
1999 UG ₁	16.3	0.15	19991009	29.91575	295.56215	48.76645	5.86208	0.1821702	2.3118160	46	1	47 days	0.62		Williams	1999 UG ₁
1999 UJ ₁	16.0	0.15	19991009	94.11359	263.67858	22.02374	21.83966	0.0676894	1.9322932	40	1	39 days	0.54		Williams	1999 UJ ₁
1999 UK ₁	13.1	0.15	19991009	22.42776	212.31755	128.02979	13.48394	0.0411203	2.9856418	11	1	3 days	0.65	E	Williams	1999 UK ₁
1999 UL ₁	13.9	0.15	20000226	3.52713	26.45542	33.43639	1.92166	0.2364572	3.0672408	65	2	1988–2000	0.56	M-v 4	Williams	38810 1999 UL ₁
1999 UN ₁	15.2	0.15	20000226	341.01321	84.68458	17.32534	3.42384	0.1307921	2.4312104	98	1	92 days	0.51	M-v 4	Williams	38810 1999 UN ₁
1999 UP ₁	15.9	0.15	20000226	28.87516	340.11044	39.12695	8.98979	0.2520474	2.7931166	57	1	77 days	0.57	M-v 4	Williams	37308 1999 UP ₁
1999 UQ ₁	14.7	0.15	20000226	21.77925	11.90262	52.61922	7.38889	0.0889102	2.3233630	90	1	111 days	0.50	M-v 3	Williams	38810 1999 UQ ₁
1999 UR ₁	15.6	0.15	20000226	89.60995	117.45702	218.70795	3.22125	0.1866702	2.2337492	81	1	63 days	0.50	M-v 4	Williams	38092 1999 UR ₁
1999 UV ₁	13.2	0.15	20000226	229.46560	315.56342	248.41601	6.75847	0.1445039	2.5680948	87	1	95 days	0.49	M-v 4	Williams	38092 1999 UV ₁
1999 UY ₁	14.0	0.15	20000226	89.87849	121.37387	218.10982	7.58356	0.1089046	2.2797780	116	3	1994–2000	0.48	M-v 2	Williams	39551 1999 UY ₁
1999 UA ₂	14.9	0.15	20000226	68.69188	98.74683	228.57191	2.49236	0.2955985	2.5983399	99	1	94 days	0.57	M-v 4	Williams	38092 1999 UA ₂
1999 UC ₂	15.0	0.15	19991009	36.38970	314.33576	24.32339	2.39707	0.0749156	2.9300456	31	1	39 days	0.65		Williams	1999 UC ₂
1999 UE ₂	14.8	0.15	20000226	76.32078	286.06569	72.89467	6.51910	0.2041493	2.2682449	71	1	122 days	0.51	M-v 4	Williams	38810 1999 UE ₂
1999 UF ₂	13.8	0.15	20000226	32.72388	245.95869	140.03382	2.79330	0.1093569	2.7113155	57	1	92 days	0.54	M-v 3	Williams	38092 1999 UF ₂
1999 UG ₂	14.9	0.15	20000226	79.85871	174.65821	159.67304	2.77040	0.2246059	2.3526547	94	2	1998–2000	0.60	M-v 4	Williams	38810 1999 UG ₂
1999 UH ₂	15.7	0.15	20000226	62.22176	149.05368	208.84710	6.75204	0.1416679	2.2916575	58	1	90 days	0.56	M-v 4	Williams	38810 1999 UH ₂
1999 UK ₂	14.2	0.15	20000226	162.06186	220.62978	35.58828	5.96644	0.1256998	2.3257630	108	3	1980–2000	0.51	M-v 3	Williams	38810 1999 UK ₂
1999 UP ₂	15.9	0.15	20000226	25.45624	339.55272	54.96672	18.00964	0.2735059	2.6353064	31	1	66 days	0.69	M-v 4	Williams	38092 1999 UP ₂
1999 UU ₂	14.1	0.15	20000226	87.17872	351.52482	314.62362	6.49078	0.1528737	2.3041538	76	3	1992–2000	0.66	M-v 2	Williams	38092 1999 UU ₂
1999 UV ₂	14.0	0.15	20000226	131.16640	202.30501	60.21024	7.20106	0.2293691	2.6364927	94	2	1998–1999	0.65	M-v 3	Williams	38092 1999 UV ₂
1999 UW ₂	13.9	0.15	20000226	293.36973	121.11950	28.78396	14.29535	0.0937272	2.5704386	71	1	120 days	0.51	M-v 4	Williams	38810 1999 UW ₂
1999 UX ₂	14.3	0.15	20000226	23.76915	355.30147	34.39652	15.61550	0.0918510	2.6445963	73	1	121 days	0.45	M-v 3	Williams	38092 1999 UX ₂
1999 UY ₂	16.6	0.15	20000226	24.35235	212.71575	190.35039	4.36747	0.1554963	2.1940124	70	1	65 days	0.47	M-v 4	Williams	38092 1999 UY ₂
1999 UZ ₂	13.8	0.15	20000226	59.14047	118.83840	222.26808	11.63726	0.2003250	2.6889715	110	2	1998–1999	0.59	M-v 3	Williams	38092 1999 UZ ₂
1999 UC ₃	14.8	0.15	20000226	22.67838	318.75245	88.74225	4.76508	0.2937562	2.6100375	87	3	1978–2000	0.53	M-v 2	Williams	38810 1999 UC ₃
1999 UE ₃	14.9	0.15	20000226	76.89080	289.23174	109.58383	5.98176	0.0918188	2.4572646	59	1	169 days	0.37	M-v 4	Williams	38810 1999 UE ₃
1999 UL ₃	14.7	0.15	20000226	8.38735	65.80554	2.55667	7.98981	0.2235170	2.7664616	64	1	135 days	0.59	M-v 4	Williams	38810 1999 UL ₃
1999 UN ₃	14.9	0.15	20000226	58.70536	164.43834	220.83654	5.81104	0.1406791	2.4431701	82	3	1989–2000	0.52	M-v 3	Williams	38810 1999 UN ₃
1999 UO ₃	14.8	0.15	20000226	64.68281	161.08134	202.11664	5.79388	0.1356775	2.4279930	64	1	90 days	0.47	M-v 4	Williams	38092 1999 UO ₃

1999 UP ₃	13.6	0.15	20000226	22.15079	3.36826	52.94289	4.82296	0.1425962	2.7093806	107	3	1972–2000	0.51	M-v	2	Williams	39551	1999 UP ₃
1999 US ₃	13.7	0.15	20000226	15.90640	181.42233	268.32483	28.99324	0.5196074	2.7589744	410	2	1994–2000	0.45	M-v	0	Marsden	39551	1999 US ₃
1999 UT ₃	14.4	0.15	20000226	20.30736	175.99697	228.63532	11.56105	0.2213083	2.4172860	107	1	202 days	0.53	M-v	3	Williams	38810	1999 UT ₃
1999 UU ₃	12.9	0.15	20000226	39.70043	132.52597	238.20776	4.46165	0.2092281	3.1521516	124	3	1982–2000	0.44	M-v	3	Williams	38092	1999 UU ₃
1999 UA ₄	12.3	0.15	20000226	45.65762	179.25161	192.95698	9.71836	0.0663864	3.0680919	89	1	98 days	0.46	M-v	4	Williams	38810	1999 UA ₄
1999 UC ₄	15.3	0.15	20000226	76.12357	287.47083	33.92849	8.36811	0.1545171	2.4828263	67	3	1991–1999	0.55	M-v	3	Williams	39551	1999 UC ₄
1999 UD ₄	14.7	0.15	20000226	55.37394	322.66190	41.07197	6.83456	0.1580972	2.3933002	78	1	97 days	0.39	M-v	4	Williams	38810	1999 UD ₄
1999 UE ₄	14.2	0.15	20000226	84.95184	290.53126	39.32322	4.40055	0.1620659	2.3100036	120	3	1994–2000	0.55	M-v	2	Williams	38093	1999 UE ₄
1999 UF ₄	16.0	0.15	20000226	46.17391	251.34644	116.20000	2.80275	0.1858375	2.6605812	63	1	121 days	0.45	M-v	4	Williams	38810	1999 UF ₄
1999 UG ₄	13.9	0.15	20000226	277.61670	345.77528	177.67565	2.27343	0.1411937	2.4074377	91	3	1992–2000	0.62	M-v	3	Williams	38810	1999 UG ₄
1999 UH ₄	15.1	0.15	20000226	30.51681	194.35570	197.08836	9.39067	0.2059709	2.7900706	59	1	95 days	0.58	M-v	4	Williams	38810	1999 UH ₄
1999 UJ ₄	15.8	0.15	20000226	27.49431	208.93309	183.54702	8.58836	0.2065059	2.4154852	60	2	1997–1999	0.53	M-v	3	Williams	38093	1999 UJ ₄
1999 UN ₄	13.5	0.15	20000226	342.86280	73.96199	24.13239	14.53740	0.1477011	2.5843738	78	1	120 days	0.44	M-v	4	Williams	38810	1999 UN ₄
1999 UO ₄	15.6	0.15	20000226	1.68319	120.70041	319.45466	3.51471	0.1410865	2.3054257	61	2	1997–2000	0.61	M-v	4	Williams	38093	1999 UO ₄
1999 UQ ₄	13.4	0.15	20000226	266.32332	344.25032	165.12444	5.72725	0.0925431	3.1543747	50	3	1993–1999	0.59	M-v	4	Williams	38093	1999 UQ ₄
1999 UR ₄	14.7	0.15	20000226	325.42629	290.13182	167.37992	5.11711	0.0897511	2.6903812	36	1	71 days	0.59	M-v	5	Williams		1999 UR ₄
1999 UU ₄	15.7	0.15	20000226	11.30072	170.05632	243.87245	1.79741	0.1934244	2.6106758	77	1	72 days	0.46	M-v	4	Williams	38811	1999 UU ₄
1999 UV ₄	12.6	0.15	20000226	95.07484	136.13000	164.39327	10.20865	0.0607342	3.4958149	58	1	122 days	0.58	M-v	4	Williams	38811	1999 UV ₄
1999 UA ₅	16.1	0.15	20000226	351.09262	84.17453	24.73577	5.79705	0.4676821	2.6788696	74	1	92 days	0.61	M-v	4	Williams	38093	1999 UA ₅
1999 UC ₅	15.2	0.15	20000226	48.20863	174.85480	198.33214	1.51982	0.1838517	2.4426664	94	1	99 days	0.45	M-v	4	Williams	38093	1999 UC ₅
1999 UE ₅	15.1	0.15	20000226	15.99356	98.12885	347.34290	22.62907	0.2924143	2.3341630	43	1	159 days	0.53	M-v	3	Williams	38811	1999 UE ₅
1999 UG ₅	9.9	0.15	20000226	9.68753	288.96680	87.46276	5.59750	0.4147573	12.7533421	101	1	108 days	0.54	M-v	4	Williams	38093	1999 UG ₅
1999 UL ₅	13.3	0.15	20000226	321.82275	202.33078	296.20599	32.41068	0.1774874	2.6264729	53	1	105 days	0.46	M-v	4	Williams	38811	1999 UL ₅
1999 UQ ₅	14.1	0.15	20000226	352.68403	173.73980	259.23077	4.00850	0.0541179	2.7667687	72	2	1996–2000	0.64	M-v	4	Williams	38093	1999 UQ ₅
1999 UR ₅	12.7	0.15	20000226	96.96230	71.24609	232.13538	10.74722	0.1416082	2.3390942	85	2	1993–2000	0.52	M-v	4	Williams	38093	1999 UR ₅
1999 UW ₅	14.6	0.15	19991029	324.53471	71.77713	8.00403	11.36312	0.0814386	3.1521210	19	1	13 days	0.74			Williams		1999 UW ₅
1999 UY ₅	15.4	0.15	19991118	160.84572	326.54681	272.25765	5.82168	0.0716467	2.4072347	29	1	40 days	0.63			Williams		1999 UY ₅
1999 UA ₆	15.4	0.15	19991009	27.92419	156.12213	188.75558	9.52553	0.1619154	2.7576094	17	1	34 days	0.50			Williams		1999 UA ₆
1999 UB ₆	14.3	0.15	20000226	227.99021	79.83645	117.87821	3.34244	0.1085230	2.2827534	72	1	96 days	0.57	M-v	4	Williams	38811	1999 UB ₆
1999 UD ₆	13.1	0.15	20000226	26.60883	354.87485	52.20111	9.36941	0.1311077	2.8925896	109	3	1994–2000	0.48	M-v	2	Williams	38811	1999 UD ₆
1999 UG ₆	15.0	0.15	20000226	2.15698	22.18697	30.67941	2.15987	0.1109556	2.9442884	51	2	1994–1999	0.63	M-v	5	Williams	37824	1999 UG ₆
1999 UH ₆	15.6	0.15	20000226	61.92684	135.70113	217.62389	2.44624	0.2014232	2.3782802	59	3	1997–1999	0.55	M-v	3	Williams	38811	1999 UH ₆
1999 UJ ₆	15.7	0.15	19991029	5.19060	163.87697	225.89600	1.23390	0.2179762	3.0610797	36	1	19 days	0.56			Williams		1999 UJ ₆
1999 UL ₆	15.8	0.15	20000226	38.23094	171.98144	207.73178	4.14049	0.2538669	2.6265147	57	1	97 days	0.40	M-v	4	Williams	38811	1999 UL ₆
1999 UN ₆	14.6	0.15	20000226	33.67691	339.41122	52.61460	10.18977	0.3173811	2.7538295	109	1	123 days	0.49	M-v	3	Williams	38811	1999 UN ₆
1999 US ₆	15.4	0.15	20000226	87.24499	94.75557	212.40607	1.54730	0.1960682	2.6451222	55	4	1995–1999	0.64	M-v	1	Williams	38811	1999 US ₆
1999 UH ₇	14.8	0.15	20000226	10.37174	102.23744	356.13784	21.89216	0.2895221	2.3865671	38	1	148 days	0.47	M-v	3	Williams	38811	1999 UH ₇
1999 UK ₇	14.5	0.15	20000226	307.84286	202.17422	337.00747	24.18904	0.2672621	1.8531535	44	1	181 days	0.47	M-v	4	Williams	38811	1999 UK ₇
1999 UR ₇	15.1	0.15	20000226	47.77973	157.71306	212.90785	8.74641	0.1639735	2.8085702	36	1	87 days	0.58	M-v	4	Williams	38093	1999 UR ₇
1999 US ₇	13.5	0.15	20000226	53.50884	311.17720	55.17512	7.44533	0.1315861	2.7565334	110	2	1992–2000	0.44	M-v	3	Williams	38811	1999 US ₇
1999 UW ₇	15.3	0.15	20000226	76.24737	289.16208	49.76060	4.64258	0.2341124	2.2380860	105	3	1989–2000	0.57	M-v	2	Williams	38093	1999 UW ₇
1999 UX ₇	14.8	0.15	20000226	212.23096	173.75819	49.81974	7.01127	0.0619546	2.3821408	69	1	118 days	0.57	M-v	4	Williams	39551	1999 UX ₇
1999 UY ₇	16.5	0.15	19991118	354.39582	7.49194	48.93665	7.04530	0.1133001	2.3961179	53	1	39 days	0.49			Williams		1999 UY ₇
1999 UA ₈	14.3	0.15	20000226	4.27824	199.35278	228.03683	15.87668	0.1570972	3.1219956	67	1	89 days	0.43	M-v	4	Williams	38093	1999 UA ₈
1999 UB ₈	15.6	0.15	19991118	41.46436	304.02767	40.59778	2.71335	0.2399271	2.6459936	46	1	44 days	0.61			Williams		1999 UB ₈
1999 UD ₈	14.6	0.15	20000226	45.19937	116.05212	260.65797	0.91534	0.1113325	2.9321611	69	1	75 days	0.48	M-v	4	Williams	38094	1999 UD ₈
1999 UE ₈	15.0	0.15	20000226	16.29626	96.77608	318.14290	1.29863	0.1059395	2.7944300	45	1	63 days	0.64	M-v	5	Williams	38094	1999 UE ₈
1999 UG ₈	16.0	0.15	20000226	68.81031	82.29035	266.36374	1.38505	0.2082587	2.36410937	54	1	62 days	0.60	M-v	4	Williams	38094	1999 UG ₈
1999 UH ₈	14.4	0.15	20000226	42.72995	153.48878	227.44892	12.36641	0.2123653	2.5592493	80	1	95 days	0.45	M-v	3	Williams	38094	1999 UH ₈
1999 UM ₈	15.5	0.15	20000226	346.89171	64.96250	44.05633	0.90866	0.2244981	2.4337519	79	1	88 days	0.48	M-v	4	Williams	38094	1999 UM ₈
1999 UO ₈	16.1	0.15	19991118	43.47567	118.30595	228.15353	1.47909	0.2081185	2.4346492	53	1	45 days	0.48		D	Williams		1999 UO ₈
1999 UP ₈	16.1	0.15	20000226	18.99385	47.22103	16.21678	2.14812	0.2023216	2.3567819	48	2	1997–2000	0.58	M-v	4	Williams	37825	1999 UP ₈
1999 UQ ₈	13.3	0.15	20000226	71.95154	113.80282	234.85157	7.46878	0.0637154	3.1482435	80	3	1977–1999	0.52	M-v	2	Williams	38094	1999 UQ ₈

1999 UR ₈	15.3	0.15	19991029	301.01027	225.18797	246.81508	2.93868	0.0813840	2.6483496	25	1	18 days	0.50		Williams		1999 UR ₈
1999 US ₈	14.9	0.15	20000226	338.91676	65.34630	40.71176	14.28354	0.1420942	2.6947639	59	1	90 days	0.52	M-v	4	Williams	38811 1999 US ₈
1999 UU ₈	13.7	0.15	20000226	81.09392	96.87544	242.18940	4.29915	0.1109303	2.7514185	73	3	1980–2000	0.56	M-v	2	Williams	38094 1999 UU ₈
1999 UV ₈	16.7	0.15	20000226	29.47205	345.14698	66.16500	2.68397	0.1747724	2.2041288	75	2	1996–1999	0.49	M-v	3	Williams	38094 1999 UV ₈
1999 UW ₈	15.0	0.15	20000226	32.71929	193.81868	209.71565	7.68629	0.1639093	2.3234602	55	1	89 days	0.51	M-v	3	Williams	38094 1999 UW ₈
1999 UX ₈	13.5	0.15	20000226	197.82816	16.13264	214.20871	8.18564	0.0294764	2.9906085	86	3	1997–1999	0.65	M-v	3	Williams	38094 1999 UX ₈
1999 UC ₉	15.1	0.15	20000226	56.31295	345.84922	34.34316	4.02718	0.0365520	2.2931057	80	3	1978–2000	0.52	M-v	3	Williams	38094 1999 UC ₉
1999 UG ₉	14.0	0.15	20000226	333.27915	232.93948	225.41146	8.63703	0.0492980	3.1707319	69	2	1998–1999	0.54	M-v	3	Williams	38094 1999 UG ₉
1999 UJ ₉	14.3	0.15	20000226	17.94379	191.84267	224.35338	1.32793	0.0890046	2.6634742	90	3	1997–2000	0.50	M-v	3	Williams	38094 1999 UJ ₉
1999 UL ₉	14.4	0.15	20000226	199.99257	195.71060	40.07538	6.11604	0.0761927	2.4578601	56	3	1960–1999	0.64	M-v	4	Williams	38811 1999 UL ₉
1999 UV ₉	14.5	0.15	20000226	352.65733	101.71600	0.38363	27.27861	0.2778134	2.6265096	33	1	146 days	0.44	M-v	3	Williams	38811 1999 UV ₉
1999 UD ₁₀	16.3	0.15	20000226	49.69882	126.06069	264.99688	19.24470	0.1162862	1.9538721	22	1	82 days	0.49	M-v	4	Williams	38094 1999 UD ₁₀
1999 UQ ₁₀	13.9	0.15	20000226	122.21970	298.91468	38.05979	25.37159	0.1444241	1.8363549	44	1	163 days	0.57	M-v	4	Williams	39551 1999 UQ ₁₀
1999 UZ ₁₀	12.3	0.15	20000226	358.97957	131.35242	294.76812	20.62571	0.0395716	3.1883089	43	2	1998–2000	0.47	M-v	3	Williams	37825 1999 UZ ₁₀
1999 UG ₁₁	13.4	0.15	20000226	17.53779	133.82214	319.40396	24.01671	0.3407403	3.1729328	67	2	1998–2000	0.65	M-v	3	Williams	39551 1999 UG ₁₁
1999 UJ ₁₁	16.1	0.15	20000226	48.00777	330.77439	41.15246	17.67764	0.2819470	2.5576439	84	1	116 days	0.50	M-v	3	Williams	38811 1999 UJ ₁₁
1999 UM ₁₁	13.3	0.15	20000226	344.12154	24.05750	61.53168	1.69391	0.1405130	3.1755912	90	3	1990–2000	0.50	M-v	3	Williams	38811 1999 UM ₁₁
1999 UN ₁₁	14.0	0.15	20000226	233.08835	343.92007	216.12696	9.66285	0.1151580	2.3461387	93	3	1994–2000	0.53	M-v	3	Williams	38094 1999 UN ₁₁
1999 UO ₁₁	15.2	0.15	20000226	40.84716	196.78964	181.08079	5.06801	0.1584690	2.7731520	39	2	1994–1999	0.60	M-v	5	Williams	38811 1999 UO ₁₁
1999 UQ ₁₁	12.8	0.15	20000226	315.51465	140.11904	346.50080	13.18091	0.1449862	2.7693912	54	1	127 days	0.42	M-v	4	Williams	38811 1999 UQ ₁₁
1999 UL ₁₂	16.1	0.15	20000226	145.71881	102.21528	149.80766	2.57645	0.1721637	2.7302648	48	3	1994–1999	0.73	M-v	3	Williams	37825 1999 UL ₁₂
1999 UR ₁₂	14.2	0.15	20000226	5.05713	35.05267	13.84318	15.17728	0.1685163	2.6112900	80	1	123 days	0.50	M-v	3	Williams	38811 1999 UR ₁₂
1999 US ₁₂	15.8	0.15	20000226	59.10882	137.41113	204.07280	6.51279	0.1276491	2.4294221	61	2	1998–1999	0.68	M-v	3	Williams	37825 1999 US ₁₂
1999 UV ₁₂	15.4	0.15	20000226	43.81509	152.82205	211.18029	6.52954	0.1249418	2.3182343	86	2	1998–1999	0.68	M-v	3	Williams	38811 1999 UV ₁₂
1999 UB ₁₃	14.5	0.15	20000226	31.24264	159.19210	209.66384	15.50976	0.1344190	2.7635880	54	1	138 days	0.60	M-v	3	Williams	38811 1999 UB ₁₃
1999 UE ₁₃	14.4	0.15	19991029	338.32946	218.07561	184.63174	4.47518	0.1401654	3.2902276	15	1	11 days	0.89			Williams	1999 UE ₁₃
1999 UF ₁₃	12.7	0.15	20000226	276.10084	275.72112	209.82864	10.02317	0.0430747	3.0024466	90	3	1979–1999	0.66	M-v	3	Williams	38095 1999 UF ₁₃
1999 UH ₁₃	14.6	0.15	20000226	47.76635	25.05808	329.97662	2.24488	0.0885041	2.5561096	69	3	1997–1999	0.56	M-v	3	Williams	38811 1999 UH ₁₃
1999 UJ ₁₃	14.8	0.15	20000226	87.90554	80.41965	218.52552	5.73482	0.2170230	2.3983026	75	2	1998–1999	0.57	M-v	4	Williams	38811 1999 UJ ₁₃
1999 UL ₁₃	15.1	0.15	20000226	0.89568	113.88127	312.08575	1.51425	0.1928151	2.3645819	61	3	1981–2000	0.51	M-v	3	Williams	38567 1999 UL ₁₃
1999 UO ₁₃	13.7	0.15	20000226	39.56999	142.48221	215.25759	6.59199	0.0249059	3.0471906	42	1	116 days	0.57	M-v	4	Williams	1999 UO ₁₃
1999 US ₁₃	13.9	0.15	20000226	227.91931	255.27808	287.13109	3.70329	0.1506018	2.5531947	55	5	1977–1999	0.71	M-v	1	Williams	38567 1999 US ₁₃
1999 UU ₁₃	14.2	0.15	20000226	284.40649	265.48023	236.19853	4.43815	0.1350947	2.2945121	69	1	137 days	0.60	M-v	4	Williams	39551 1999 UU ₁₃
1999 UA ₁₄	15.4	0.15	20000226	9.39059	337.04706	88.50580	3.60962	0.1744041	2.4055604	54	1	93 days	0.55	M-v	4	Williams	38095 1999 UA ₁₄
1999 UF ₁₄	13.9	0.15	20000226	130.56908	116.76120	164.10488	4.26079	0.1067472	2.5507953	81	2	1998–2000	0.64	M-v	3	Williams	38095 1999 UF ₁₄
1999 UH ₁₄	15.7	0.15	20000226	94.89653	252.70007	74.41464	5.70368	0.0488129	2.3310676	41	3	1992–1999	0.56	M-v	3	Williams	37826 1999 UH ₁₄
1999 UM ₁₄	14.4	0.15	20000226	247.89915	72.77224	114.64019	3.12828	0.1374994	2.3587610	48	2	1998–2000	0.59	M-v	4	Williams	38567 1999 UM ₁₄
1999 UN ₁₄	15.7	0.15	19991029	45.32637	232.74262	99.26767	4.14067	0.1794139	2.5787264	19	1	16 days	0.58			Williams	1999 UN ₁₄
1999 UX ₁₄	15.4	0.15	19991029	248.05224	114.85459	41.27754	12.83282	0.0990406	2.6213816	28	1	23 days	0.51			Williams	1999 UX ₁₄
1999 UY ₁₄	14.1	0.15	20000226	164.07245	98.07495	151.88613	2.33668	0.0540161	2.9389422	32	2	1998–1999	0.59	M-v	5	Williams	38567 1999 UY ₁₄
1999 UA ₁₅	15.0	0.15	20000226	8.34465	17.01279	43.08494	8.81223	0.1999272	2.8073710	60	1	67 days	0.50	M-v	4	Williams	38811 1999 UA ₁₅
1999 UC ₁₅	16.1	0.15	19991029	344.86901	4.95891	48.57449	6.73608	0.1051073	2.3872474	38	1	48 days	0.55			Williams	1999 UC ₁₅
1999 UD ₁₅	12.5	0.15	20000226	51.60841	310.41429	48.50403	9.93301	0.0967362	3.0678159	87	2	1997–2000	0.59	M-v	3	Williams	38811 1999 UD ₁₅
1999 UE ₁₅	15.6	0.15	20000226	60.35271	296.27561	46.17435	6.44994	0.2637549	2.5575018	61	1	98 days	0.57	M-v	4	Williams	38812 1999 UE ₁₅
1999 UF ₁₅	12.9	0.15	20000226	59.42405	304.89486	42.16515	14.40611	0.1465498	2.9743085	75	1	98 days	0.55	M-v	4	Williams	38812 1999 UF ₁₅
1999 UH ₁₅	14.3	0.15	20000226	344.63348	305.14729	130.19594	3.05641	0.0468033	3.0995539	27	2	1997–1999	0.53	M-v	5	Williams	37826 1999 UH ₁₅
1999 UJ ₁₅	14.0	0.15	20000226	209.00469	167.60437	46.76486	11.82891	0.1420233	2.6049841	38	1	67 days	0.64	M-v	5	Williams	38812 1999 UJ ₁₅
1999 UK ₁₅	13.9	0.15	20000226	40.36776	285.20888	92.66124	2.47215	0.0871003	2.7700171	77	4	1992–2000	0.63	M-v	2	Williams	38812 1999 UK ₁₅
1999 UL ₁₅	14.1	0.15	20000226	165.75726	61.35280	193.74720	4.79299	0.0698889	2.4761598	55	1	92 days	0.44	M-v	4	Williams	38812 1999 UL ₁₅
1999 UM ₁₅	14.6	0.15	20000226	199.88849	195.96128	30.44991	7.13830	0.1305933	2.2740132	74	2	1998–1999	0.62	M-v	4	Williams	38812 1999 UM ₁₅
1999 UQ ₁₅	15.4	0.15	20000226	24.10357	225.92730	177.87905	5.98811	0.1341174	2.4572032	43	1	99 days	0.53	M-v	4	Williams	38096 1999 UQ ₁₅
1999 UV ₁₅	14.8	0.15	20000226	330.53966	25.87101	76.88300	5.04730	0.0563551	2.3881742	51	1	90 days	0.58	M-v	5	Williams	38096 1999 UV ₁₅
1999 UX ₁₅	16.8	0.15	19991009	9.63767	263.65649	110.28231	3.59725	0.1664683	2.3306524	16	1	24 days	0.49			Williams	1999 UX ₁₅

1999 UY ₁₅	15.9	0.15	20000226	52.69310	308.82677	53.31834	10.34323	0.2339926	2.3744938	29	1	71 days	0.47	M-v	4	Williams		1999 UY ₁₅
1999 UA ₁₆	15.7	0.15	20000226	16.96758	339.71073	77.31400	3.10309	0.2048748	2.4475911	48	1	96 days	0.49	M-v	4	Williams	38812	1999 UA ₁₆
1999 UB ₁₆	14.5	0.15	20000226	59.07739	198.87629	157.48779	2.34029	0.0779205	2.8521455	40	2	1997–1999	0.56	M-v	5	Williams	38568	1999 UB ₁₆
1999 UC ₁₆	14.0	0.15	20000226	236.34993	352.33882	206.33638	3.97902	0.0755518	2.2436576	103	2	1998–2000	0.54	M-v	3	Williams	38812	1999 UC ₁₆
1999 UD ₁₆	17.6	0.15	19991029	29.18266	81.57568	263.78564	1.69149	0.2771530	2.3322327	29	1	18 days	0.48			Williams		1999 UD ₁₆
1999 UF ₁₆	15.9	0.15	19991029	294.77178	84.13601	24.14672	7.45768	0.0594983	2.3664178	29	1	18 days	0.59			Williams		1999 UF ₁₆
1999 UG ₁₆	13.2	0.15	20000226	247.10999	143.00860	30.17460	9.72968	0.0137604	3.0208332	71	1	97 days	0.43	M-v	4	Williams	38096	1999 UG ₁₆
1999 UH ₁₆	16.7	0.15	19991029	13.33677	344.98590	29.20690	5.75276	0.2406848	2.5666547	30	1	18 days	0.52			Williams		1999 UH ₁₆
1999 UK ₁₆	17.2	0.15	19991029	37.27751	311.40339	30.15960	5.05687	0.2049238	2.1733432	29	1	18 days	0.53			Williams		1999 UK ₁₆
1999 UL ₁₆	15.1	0.15	20000226	99.94445	321.68084	342.73075	1.85584	0.2029857	2.4613941	73	4	1991–1999	0.64	M-v	2	Williams	38096	1999 UL ₁₆
1999 UO ₁₆	15.9	0.15	19991029	340.98762	78.73233	348.68127	1.31432	0.2306130	2.7896180	38	1	59 days	0.58			Williams		1999 UO ₁₆
1999 UP ₁₆	16.7	0.15	19991029	354.76583	177.84605	225.75563	6.08152	0.1323631	2.3383234	38	1	36 days	0.49			Williams		1999 UP ₁₆
1999 UQ ₁₆	15.6	0.15	20000226	20.32348	185.07501	222.63217	10.11161	0.2640843	2.7094028	81	1	94 days	0.57	M-v	3	Williams	38096	1999 UQ ₁₆
1999 UR ₁₆	15.2	0.15	19991029	353.97986	147.36220	257.30475	2.24163	0.0925641	2.7866309	46	1	59 days	0.49			Williams		1999 UR ₁₆
1999 UT ₁₆	15.5	0.15	19991029	41.42810	116.00851	237.83124	5.40576	0.0280495	2.7504748	26	1	18 days	0.72			Williams		1999 UT ₁₆
1999 UU ₁₆	15.2	0.15	20000226	333.32246	78.69908	30.18170	6.41387	0.1608900	2.6034848	54	2	1995–2000	0.70	M-v	4	Williams	38096	1999 UU ₁₆
1999 UV ₁₆	15.6	0.15	20000226	48.59356	335.16187	27.05613	5.30438	0.2812398	2.5347189	64	1	97 days	0.42	M-v	4	Williams	38812	1999 UV ₁₆
1999 UC ₁₇	14.4	0.15	20000226	65.34070	105.86722	203.55343	20.80595	0.4173945	3.1299159	51	2	1998–2000	0.70	M-v	4	Williams	38568	1999 UC ₁₇
1999 UD ₁₇	13.7	0.15	20000226	41.45005	263.08884	107.67634	6.68896	0.1615457	3.1445951	50	1	94 days	0.58	M-v	4	Williams	38096	1999 UD ₁₇
1999 UF ₁₇	15.1	0.15	19991118	262.21836	281.05267	227.81976	12.80464	0.0970546	2.6071043	41	1	37 days	0.59			Williams		1999 UF ₁₇
1999 UH ₁₈	15.2	0.15	20000226	72.42215	286.56649	42.63531	7.03229	0.1488520	2.4149979	81	2	1998–1999	0.65	M-v	3	Williams	38096	1999 UH ₁₈
1999 UY ₂₀	16.4	0.15	20000226	354.12468	267.07744	160.15052	2.94051	0.1512328	2.6454117	23	2	1995–1999	0.33	M-v	4	Williams	38568	1999 UY ₂₀
1999 UG ₂₂	16.2	0.15	19991009	281.54316	67.37926	49.16165	2.64676	0.0751582	2.5797178	13	1	30 days	0.37			Williams	37826	1999 UG ₂₂
1999 UH ₂₂	15.7	0.15	20000226	103.53971	240.42636	63.43084	1.54139	0.1312624	2.6119862	21	2	1995–1999	0.55	M-v	5	Williams	38568	1999 UH ₂₂
1999 UF ₂₃	16.0	0.15	19991029	15.62101	334.16008	38.74741	13.24402	0.1809914	2.6265203	42	1	47 days	0.46			D Williams		1999 UF ₂₃
1999 UJ ₂₃	15.2	0.15	20000226	41.99763	107.17411	254.90267	5.02384	0.1205234	2.3684539	53	2	1998–1999	0.67	M-v	3	Williams	37826	1999 UJ ₂₃
1999 UP ₂₃	13.8	0.15	20000226	9.77213	49.41677	347.16341	10.27431	0.1848774	2.8550784	52	1	124 days	0.54	M-v	4	Williams	38097	1999 UP ₂₃
1999 UQ ₂₃	16.2	0.15	19991009	315.22036	92.55391	332.06841	6.43064	0.1030005	2.3469800	17	1	17 days	0.64			Williams		1999 UQ ₂₃
1999 UR ₂₃	14.8	0.15	20000226	336.00976	110.57985	331.97050	6.50653	0.0792789	2.3092382	61	1	126 days	0.52	M-v	4	Williams	38097	1999 UR ₂₃
1999 US ₂₃	14.8	0.15	20000226	321.51378	220.01802	234.69851	5.54118	0.0826623	2.4088785	64	2	1977–1999	0.61	M-v	4	Williams	38097	1999 US ₂₃
1999 UV ₂₃	14.6	0.15	19991029	263.35943	146.01775	352.74996	10.51332	0.1340572	2.6691946	20	1	14 days	0.43			Williams		1999 UV ₂₃
1999 UW ₂₃	16.1	0.15	19991029	29.90674	80.27806	270.06649	5.76585	0.1252172	2.3490890	16	1	7 days	0.55			Williams		1999 UW ₂₃
1999 UB ₂₄	13.6	0.15	19991029	159.94366	354.89251	227.22090	17.22958	0.1999012	3.0945298	16	1	7 days	0.55			Williams		1999 UB ₂₄
1999 UE ₂₄	14.5	0.15	20000226	13.39428	78.02757	332.61077	6.13967	0.1969887	2.7435246	54	1	116 days	0.44	M-v	4	Williams	38097	1999 UE ₂₄
1999 UJ ₂₄	14.5	0.15	20000226	28.76198	128.54663	257.74765	6.85239	0.2400329	2.7844752	53	1	168 days	0.38	M-v	3	Williams	38097	1999 UJ ₂₄
1999 UK ₂₄	13.9	0.15	20000226	68.20510	48.26479	296.11883	5.39481	0.1430277	2.3788971	58	1	98 days	0.48	M-v	4	Williams	38097	1999 UK ₂₄
1999 UL ₂₄	14.9	0.15	20000226	79.93428	65.00884	250.12308	9.27703	0.2179818	2.6851797	46	3	1990–1999	0.67	M-v	3	Williams	38812	1999 UL ₂₄
1999 UN ₂₄	14.6	0.15	20000226	65.72340	17.80744	330.19238	4.21711	0.1694714	2.2972724	66	3	1985–2000	0.59	M-v	2	Williams	38097	1999 UN ₂₄
1999 UP ₂₄	14.0	0.15	20000226	25.06260	137.07930	248.60966	8.09329	0.1456512	3.1591918	34	1	87 days	0.48	M-v	3	Williams	38097	1999 UP ₂₄
1999 UQ ₂₄	13.6	0.15	20000226	63.36911	70.02253	275.43104	6.04801	0.1009912	2.8094804	54	2	1980–2000	0.49	M-v	4	Williams	37826	1999 UQ ₂₄
1999 UU ₂₄	16.1	0.15	19991029	306.60400	198.60606	258.75023	4.49567	0.1179177	2.2467788	21	1	19 days	0.44			Williams		1999 UU ₂₄
1999 UW ₂₄	13.2	0.15	19991029	231.26188	167.01685	6.75327	12.09476	0.1572002	3.0239562	16	1	7 days	0.72			Williams		1999 UW ₂₄
1999 UC ₂₅	14.4	0.15	20000226	186.19008	241.83545	354.37747	6.56306	0.0665837	2.3595490	62	3	1977–2000	0.64	M-v	4	Williams	37826	1999 UC ₂₅
1999 UG ₂₅	17.9	0.15	19991029	353.99164	39.65303	6.58054	5.54582	0.3220631	2.3172658	16	1	7 days	0.58			Williams		1999 UG ₂₅
1999 US ₂₅	16.9	0.15	19991118	25.60855	338.20095	29.04456	4.81431	0.2814765	2.5351599	34	1	40 days	0.47			Williams		1999 US ₂₅
1999 UU ₂₅	16.6	0.15	19991009	338.12036	40.41703	15.77235	4.09382	0.2441473	2.6801567	31	1	43 days	0.56			Williams		1999 UU ₂₅
1999 UY ₂₅	15.8	0.15	19991009	283.00727	235.54931	233.03636	5.99459	0.0882316	2.3787619	37	1	45 days	0.58			Williams		1999 UY ₂₅
1999 UZ ₂₅	16.1	0.15	20000226	43.35237	126.68886	252.42561	2.70969	0.1559320	2.1895465	61	1	80 days	0.60	M-v	4	Williams	38812	1999 UZ ₂₅
1999 UG ₂₆	14.7	0.15	19991029	289.54424	201.67053	275.30831	5.24499	0.1716678	3.0115513	19	1	12 days	0.54			Williams		1999 UG ₂₆
1999 UK ₂₆	15.6	0.15	19991029	295.62404	245.40004	230.01024	4.48587	0.1920668	2.3535192	46	1	56 days	0.59			Williams		1999 UK ₂₆
1999 UL ₂₆	15.2	0.15	20000226	28.15737	33.67016	354.20550	3.28698	0.2610047	2.6907357	68	1	95 days	0.56	M-v	3	Williams	38812	1999 UL ₂₆
1999 UM ₂₆	13.5	0.15	20000226	87.70712	60.14809	256.84396	2.88187	0.0939874	2.7997133	84	1	98 days	0.45	M-v	4	Williams	38812	1999 UM ₂₆
1999 UO ₂₆	14.5	0.15	20000226	71.50695	11.52832	327.95396	3.76836	0.0909536	2.5768935	77	4	1978–2000	0.62	M-v	1	Williams	38568	1999 UO ₂₆

1999 UP ₂₆	16.8	0.15	20000226	32.60161	67.24659	329.90500	3.23286	0.1433123	2.1714021	42	2	1997–1999	0.62	M-v	4	Williams	38568	1999 UP ₂₆
1999 UQ ₂₆	15.5	0.15	19991009	351.26896	180.22398	219.10922	24.06225	0.2699808	3.1664939	26	1	42 days	0.42			Williams		1999 UQ ₂₆
1999 US ₂₆	14.1	0.15	19991029	79.93965	17.50387	274.72449	3.97894	0.1509077	3.1578204	16	1	5 days	0.45		E	Williams		1999 US ₂₆
1999 UT ₂₆	14.8	0.15	19991029	105.72296	310.64752	330.71065	4.73318	0.0336437	2.6324651	25	1	18 days	0.49			Williams		1999 UT ₂₆
1999 UX ₂₆	16.9	0.15	19991029	342.09087	59.13730	5.34988	5.96971	0.2844026	2.6295477	16	1	6 days	0.77		E	Williams		1999 UX ₂₆
1999 UA ₂₇	15.3	0.15	19991029	12.05373	132.30060	244.38887	8.24242	0.1600387	3.0327032	28	1	33 days	0.60			Williams		1999 UA ₂₇
1999 UX ₂₇	15.9	0.15	20000226	339.79482	230.11952	198.21987	9.21183	0.1601712	2.7514033	29	2	1997–1999	0.33	M-v	4	Williams	38812	1999 UX ₂₇
1999 UD ₂₈	16.4	0.15	20000226	57.85727	138.99426	202.38358	5.53565	0.1932838	2.2334277	43	1	70 days	0.59	M-v	4	Williams	38812	1999 UD ₂₈
1999 UV ₂₈	14.8	0.15	20000226	268.01273	8.12773	143.18749	1.72282	0.0854167	2.4443129	63	3	1992–1999	0.60	M-v	4	Williams	38569	1999 UV ₂₈
1999 UA ₂₉	15.1	0.15	20000226	51.86623	321.80542	29.21065	14.33398	0.1078890	2.6573249	55	1	66 days	0.55	M-v	4	Williams	38097	1999 UA ₂₉
1999 UQ ₂₉	15.0	0.15	20000226	76.83751	293.56492	28.69923	6.08034	0.1415102	2.4358100	83	2	1998–1999	0.57	M-v	3	Williams	38812	1999 UQ ₂₉
1999 UD ₃₁	15.6	0.15	20000226	71.19930	203.79503	126.29777	1.96685	0.1903454	2.3484100	64	2	1996–1999	0.52	M-v	5	Williams	39317	1999 UD ₃₁
1999 UC ₃₂	16.1	0.15	19991029	301.89767	58.41608	51.32938	1.96728	0.1576382	2.3385782	31	1	23 days	0.51			Williams		1999 UC ₃₂
1999 UL ₃₂	14.0	0.15	20000226	31.22159	333.81368	53.80809	2.82869	0.0348290	2.8880722	61	1	98 days	0.49	M-v	3	Williams	38813	1999 UL ₃₂
1999 UQ ₃₄	15.3	0.15	20000226	123.71798	247.73533	38.65103	5.24049	0.1617582	2.3286309	59	2	1998–1999	0.66	M-v	4	Williams	38813	1999 UQ ₃₄
1999 UT ₃₄	15.9	0.15	20000226	316.86325	275.63772	206.80526	2.89229	0.1300575	2.5242409	41	4	1993–1999	0.49	M-v	3	Williams	37827	1999 UT ₃₄
1999 UG ₃₅	16.2	0.15	20000226	28.43401	207.89953	192.35309	1.31599	0.2042401	2.4167686	59	2	1995–1999	0.54	M-v	3	Williams	38813	1999 UG ₃₅
1999 UN ₃₅	14.5	0.15	20000226	14.15964	283.09210	141.18270	10.43278	0.1631294	2.5974293	56	1	152 days	0.50	M-v	3	Williams	39551	1999 UN ₃₅
1999 UO ₃₅	16.0	0.15	20000226	21.26591	218.11107	195.63615	16.92409	0.3601738	2.7712743	22	1	82 days	0.47	M-v	4	Williams		1999 UO ₃₅
1999 UP ₃₅	15.4	0.15	20000226	131.25587	60.79446	228.57638	6.23682	0.1165985	2.3829424	39	2	1998–1999	0.60	M-v	4	Williams	39551	1999 UP ₃₅
1999 VA	15.4	0.15	20000226	65.48805	302.28066	74.48992	7.20985	0.0669950	2.3850339	77	1	68 days	0.49	M-v	4	Williams	38098	1999 VA
1999 VB	15.1	0.15	20000226	72.23879	270.20061	85.99189	4.60490	0.1745947	2.5173430	81	1	82 days	0.41	M-v	4	Williams	38098	1999 VB
1999 VG	14.4	0.15	20000226	41.35275	175.78333	195.87015	3.59231	0.2356950	2.6934782	102	3	1981–2000	0.48	M-v	3	Williams	38813	1999 VG
1999 VK	14.7	0.15	20000226	68.18860	313.83048	79.84188	3.47713	0.1440220	2.2067804	66	1	111 days	0.49	M-v	4	Williams	38813	1999 VK
1999 VL	15.7	0.15	20000226	28.40258	333.92499	66.90591	2.39164	0.1862411	2.3920048	57	1	81 days	0.64	M-v	4	Williams	38813	1999 VL
1999 VM	14.6	0.15	20000226	56.35097	188.07014	173.18409	2.12236	0.0824074	2.6822510	43	1	62 days	0.63	M-v	4	Williams	38813	1999 VM
1999 VR	13.9	0.15	20000226	48.51272	326.75595	44.07939	1.76315	0.2212145	3.0882426	84	1	134 days	0.59	M-v	4	Williams	39551	1999 VR
1999 VS	15.9	0.15	20000226	33.59458	230.98914	162.29375	6.25806	0.1237623	2.3088748	51	1	96 days	0.72	M-v	4	Williams	38098	1999 VS
1999 VU	17.1	0.15	20000226	356.25349	202.96336	333.66615	9.27753	0.5535356	1.3880195	133	2	1977–2000	0.46	M-v	3	Williams	38098	1999 VU
1999 VY	15.9	0.15	20000226	359.51854	49.41924	18.72124	7.58553	0.1988445	2.5727519	63	1	92 days	0.49	M-v	4	Williams	38098	1999 VY
1999 VZ	13.3	0.15	20000226	322.50159	100.40396	54.13751	23.28098	0.2717236	2.3372982	120	2	1992–2000	0.47	M-v	3	Williams	39551	1999 VZ
1999 VB ₁	16.0	0.15	20000226	13.05060	359.53475	57.00218	13.27211	0.2648950	2.6927217	59	1	97 days	0.67	M-v	3	Williams	38098	1999 VB ₁
1999 VE ₁	15.4	0.15	20000226	29.91855	21.32035	18.83514	10.19056	0.1137189	2.3243790	69	1	112 days	0.65	M-v	4	Williams	38098	1999 VE ₁
1999 VF ₁	15.0	0.15	20000226	49.99877	127.81967	248.12241	6.28686	0.2494687	2.4110678	97	2	1995–2000	0.45	M-v	3	Williams	38813	1999 VF ₁
1999 VG ₁	14.7	0.15	20000226	16.98879	357.41235	48.93182	2.04192	0.2613704	3.1329685	90	1	96 days	0.44	M-v	3	Williams	38098	1999 VG ₁
1999 VK ₁	14.8	0.15	20000226	7.68020	13.57182	49.96796	4.20022	0.0714274	2.5559048	77	2	1993–2000	0.55	M-v	4	Williams	38813	1999 VK ₁
1999 VL ₁	20.1	0.15	19991009	347.94209	353.01870	47.45154	23.08644	0.2196091	1.7422992	48	1	23 days	0.56			Williams		1999 VL ₁
1999 VN ₁	15.2	0.15	20000226	180.24137	257.55113	4.65485	3.61938	0.0595495	2.1721603	75	2	1998–1999	0.64	M-v	4	Williams	38098	1999 VN ₁
1999 VP ₁	16.7	0.15	20000226	58.54102	314.80394	34.16174	7.36450	0.1329671	2.3613061	46	1	67 days	0.43	M-v	4	Williams	38813	1999 VP ₁
1999 VS ₁	14.8	0.15	20000226	39.26085	163.95199	227.89540	7.25111	0.1749451	2.7130516	67	2	1985–1999	0.65	M-v	4	Williams	38098	1999 VS ₁
1999 VT ₁	12.9	0.15	20000226	37.31474	194.53106	204.84791	9.95799	0.0425483	3.0038784	76	3	1995–2000	0.58	M-v	2	Williams	39551	1999 VT ₁
1999 VV ₁	13.8	0.15	20000226	102.89028	112.50832	198.90902	13.66007	0.1062532	2.6211240	85	2	1998–2000	0.50	M-v	3	Williams	38098	1999 VV ₁
1999 VZ ₁	15.8	0.15	20000226	348.14627	214.77306	242.02517	1.05461	0.0908100	2.2107742	65	2	1981–1999	0.74	M-v	5	Williams	38098	1999 VZ ₁
1999 VA ₂	15.2	0.15	20000226	63.41806	122.60172	232.94375	23.88474	0.2903318	2.2700872	116	1	124 days	0.50	M-v	3	Williams	38813	1999 VA ₂
1999 VC ₂	14.4	0.15	20000226	287.96661	116.43350	64.79795	7.46151	0.1698432	2.3108646	69	1	128 days	0.49	M-v	4	Williams	39551	1999 VC ₂
1999 VD ₂	13.6	0.15	20000226	81.02690	282.67032	65.84077	11.67288	0.1292025	2.9969453	60	1	74 days	0.44	M-v	4	Williams	38098	1999 VD ₂
1999 VE ₂	15.2	0.15	20000226	38.12933	196.63051	187.83013	4.18499	0.2069182	2.5661644	51	3	1993–2000	0.48	M-v	2	Williams	38813	1999 VE ₂
1999 VG ₂	13.1	0.15	20000226	37.06919	302.45884	74.33396	11.19815	0.1077592	2.9782768	71	1	113 days	0.56	M-v	3	Williams	38813	1999 VG ₂
1999 VH ₂	14.3	0.15	20000226	33.89547	75.82862	320.54103	2.74905	0.1691764	2.5924162	88	1	146 days	0.64	M-v	3	Williams	39551	1999 VH ₂
1999 VJ ₂	14.1	0.15	20000226	38.77231	86.62077	293.38249	8.77549	0.1293898	2.9746288	50	1	109 days	0.63	M-v	4	Williams	38813	1999 VJ ₂
1999 VM ₂	12.9	0.15	20000226	326.57451	250.92863	241.82211	23.67487	0.0890254	2.5795494	84	1	154 days	0.45	M-v	3	Williams	38813	1999 VM ₂
1999 VO ₂	13.3	0.15	20000226	68.37884	276.90750	115.98519	27.55346	0.3250493	2.6740172	71	3	1990–2000	0.50	M-v	1	Williams	39551	1999 VO ₂
1999 VQ ₂	14.1	0.15	20000226	357.91418	23.26544	55.80552	7.49459	0.0664632	2.3255256	78	3	1994–2000	0.41	M-v	4	Williams	38813	1999 VQ ₂

1999 VV ₂	16.1	0.15	20000226	42.09024	114.87498	267.22771	3.85991	0.2396418	2.6567172	77	1	106 days	0.53	M-v	4	Williams	38813	1999 VV ₂
1999 VZ ₂	14.6	0.15	20000226	338.44219	91.91282	5.02718	6.98849	0.0821877	2.3963584	89	5	1976–2000	0.60	M-v	3	Williams	38569	1999 VZ ₂
1999 VG ₃	13.8	0.15	20000226	348.78171	303.87654	147.86246	1.89014	0.1401639	3.1642724	86	2	1998–2000	0.62	M-v	3	Williams	38813	1999 VG ₃
1999 VA ₄	14.9	0.15	20000226	35.28075	282.90772	98.15381	3.15388	0.2226932	2.3959124	57	1	94 days	0.46	M-v	3	Williams	38099	1999 VA ₄
1999 VD ₄	16.4	0.15	20000226	19.03681	353.93342	54.30387	5.99111	0.3789133	2.6312378	47	1	66 days	0.49	M-v	4	Williams	38099	1999 VD ₄
1999 VH ₄	15.3	0.15	20000226	8.39078	11.17821	39.10868	15.22303	0.1373407	2.6506726	40	1	64 days	0.52	M-v	4	Williams	38099	1999 VH ₄
1999 VK ₄	14.4	0.15	20000226	39.47142	178.86254	184.31731	8.40334	0.2359513	2.7962123	77	1	171 days	0.49	M-v	3	Williams	38099	1999 VK ₄
1999 VL ₄	14.6	0.15	20000226	69.31698	217.57017	95.84046	2.93782	0.3747193	2.3605213	64	2	1988–1999	0.54	M-v	3	Williams	38099	1999 VL ₄
1999 VO ₄	15.1	0.15	19991029	6.14472	336.34849	41.21549	16.03394	0.1243113	2.6910559	11	1	2 days	0.43		E	Williams		1999 VO ₄
1999 VP ₄	13.4	0.15	19991029	238.89263	109.11116	46.56652	14.38589	0.1277544	3.2257650	11	1	2 days	0.63		E	Williams		1999 VP ₄
1999 VQ ₄	14.0	0.15	19991029	53.22458	168.59050	178.46644	16.18819	0.1109142	2.7451585	11	1	3 days	0.77		E	Williams		1999 VQ ₄
1999 VR ₄	15.0	0.15	20000226	8.72964	0.83269	67.04896	12.58433	0.1577136	2.6438488	47	1	95 days	0.63	M-v	4	Williams	38099	1999 VR ₄
1999 VT ₄	15.9	0.15	20000226	40.08056	348.86601	32.54264	0.16528	0.2224038	2.4896275	57	2	1995–1999	0.55	M-v	4	Williams	38099	1999 VT ₄
1999 VU ₄	14.8	0.15	19991118	82.99960	274.66724	40.33817	5.61961	0.0408252	2.7475154	43	1	39 days	0.77			Williams		1999 VU ₄
1999 VV ₄	15.4	0.15	20000226	41.73167	339.46401	44.94325	3.31015	0.1805174	2.3855960	98	1	97 days	0.52	M-v	3	Williams	38099	1999 VV ₄
1999 VX ₄	15.2	0.15	20000226	9.11206	224.49104	201.26149	0.74731	0.1209851	2.5402792	74	2	1993–2000	0.61	M-v	4	Williams	38099	1999 VX ₄
1999 VZ ₄	16.1	0.15	19991118	6.65696	181.84322	216.07072	2.49483	0.1808862	2.4254742	49	1	39 days	0.49			Williams		1999 VZ ₄
1999 VA ₅	13.6	0.15	20000226	36.36576	332.26417	45.79900	4.16940	0.2001168	3.1528416	121	4	1982–2000	0.57	M-v	1	Williams	38099	1999 VA ₅
1999 VB ₅	14.3	0.15	20000226	37.26659	340.90337	43.02016	2.50403	0.1065146	2.9257261	99	2	1997–1999	0.53	M-v	4	Williams	38099	1999 VB ₅
1999 VC ₅	15.3	0.15	20000226	5.42468	31.65808	42.90359	4.51792	0.1954140	2.5841233	90	1	96 days	0.48	M-v	4	Williams	38099	1999 VC ₅
1999 VD ₅	15.2	0.15	20000226	43.78458	330.03874	52.20688	3.44512	0.1916804	2.4057137	76	1	96 days	0.49	M-v	4	Williams	38099	1999 VD ₅
1999 VG ₅	16.1	0.15	20000226	45.23753	155.37610	225.40301	0.13815	0.2477915	2.2933701	74	1	88 days	0.42	M-v	4	Williams	38813	1999 VG ₅
1999 VH ₅	12.8	0.15	20000226	112.59561	231.34337	64.81704	13.51975	0.1093727	2.9174682	57	1	97 days	0.50	M-v	4	Williams	38099	1999 VH ₅
1999 VJ ₅	14.9	0.15	20000226	75.05246	6.42356	348.80138	3.79847	0.2167842	2.2219620	47	2	1998–2000	0.64	M-v	4	Williams	38813	1999 VJ ₅
1999 VM ₅	15.3	0.15	20000226	43.78510	47.64352	332.33148	2.52268	0.1960974	2.4190855	72	1	95 days	0.56	M-v	4	Williams	38099	1999 VM ₅
1999 VU ₅	14.5	0.15	20000226	63.54517	309.62858	68.29539	11.01158	0.0948563	2.3778205	80	1	112 days	0.62	M-v	4	Williams	38813	1999 VU ₅
1999 VV ₅	13.6	0.15	20000226	28.01341	339.53682	72.88081	11.38907	0.0995437	3.0103025	62	1	92 days	0.63	M-v	4	Williams	38813	1999 VV ₅
1999 VX ₅	13.1	0.15	20000226	72.56065	287.94320	77.94363	9.43411	0.0506118	3.0358930	64	1	105 days	0.46	M-v	4	Williams	38813	1999 VX ₅
1999 VY ₅	15.5	0.15	20000226	40.21262	341.22107	66.40528	8.56119	0.1416921	2.2473590	51	1	112 days	0.62	M-v	4	Williams	38813	1999 VY ₅
1999 VA ₆	14.5	0.15	20000226	3.41795	223.82103	229.92863	12.53482	0.2238244	2.7299714	73	2	1990–2000	0.57	M-v	3	Williams	39552	1999 VA ₆
1999 VF ₆	14.3	0.15	20000226	45.38135	192.94133	208.98694	3.13005	0.1501686	2.2672238	65	3	1992–2000	0.62	M-v	3	Williams	38814	1999 VF ₆
1999 VG ₆	14.7	0.15	20000226	51.53706	141.24806	234.73434	2.94274	0.2817656	2.5587375	64	2	1993–2000	0.65	M-v	4	Williams	38814	1999 VG ₆
1999 VJ ₆	14.3	0.15	20000226	15.91834	6.36044	74.17781	5.34969	0.1045483	2.2848640	73	1	143 days	0.44	M-v	3	Williams	39552	1999 VJ ₆
1999 VK ₆	12.7	0.15	20000226	94.23499	101.44358	239.93613	13.56855	0.1012057	2.9964561	100	3	1992–2000	0.60	M-v	2	Williams	39552	1999 VK ₆
1999 VN ₆	19.5	0.15	20000226	21.55635	43.39279	58.18558	19.49676	0.3700953	1.7334622	153	1	131 days	0.54	M-v	4	Williams	39552	1999 VN ₆
1999 VQ ₆	18.3	0.15	20000226	9.12160	254.34382	203.68471	27.62477	0.5076333	2.5965573	40	1	121 days	0.56	M-v	4	Williams	38814	1999 VQ ₆
1999 VS ₆	18.9	0.15	20000226	21.13844	89.25358	35.38016	27.97269	0.2230825	1.1978162	123	1	164 days	0.55	M-v	3	Marsden	39552	1999 VS ₆
1999 VU ₆	15.1	0.15	19991118	218.93406	135.58678	56.24385	2.37086	0.1012029	2.2998906	69	1	39 days	0.53			Williams		1999 VU ₆
1999 VW ₆	13.0	0.15	20000226	48.31154	216.53293	153.98128	14.95707	0.1986406	2.5535773	92	2	1998–2000	0.61	M-v	3	Williams	38814	1999 VW ₆
1999 VX ₆	14.4	0.15	20000226	48.13063	238.15904	130.09660	16.26769	0.1514214	2.8138495	36	2	1998–1999	0.70	M-v	3	Williams	38100	1999 VX ₆
1999 VY ₆	14.6	0.15	20000226	39.13661	266.10800	118.55563	13.63069	0.2082449	2.5145437	51	1	145 days	0.69	M-v	3	Williams	38814	1999 VY ₆
1999 VZ ₆	13.1	0.15	20000226	5.72459	266.32463	156.54439	18.21187	0.1614209	3.1982508	40	1	117 days	0.43	M-v	3	Williams	38100	1999 VZ ₆
1999 VA ₇	12.3	0.15	20000226	309.45225	18.40345	106.78324	23.56637	0.0918406	3.2137776	41	1	171 days	0.52	M-v	4	Williams	38100	1999 VA ₇
1999 VB ₇	11.8	0.15	20000226	84.25368	196.26486	141.04709	22.47012	0.0454317	3.2078788	55	2	1998–2000	0.60	M-v	3	Williams	38814	1999 VB ₇
1999 VD ₇	13.9	0.15	20000226	95.09595	216.12592	88.34478	0.46502	0.1971779	2.9734857	90	3	1993–1999	0.57	M-v	3	Williams	38100	1999 VD ₇
1999 VG ₇	14.4	0.15	20000226	112.94813	246.99872	58.50987	0.86976	0.0534949	2.7821779	59	3	1992–1999	0.61	M-v	3	Williams	37828	1999 VG ₇
1999 VJ ₇	13.0	0.15	20000226	8.49961	10.50541	49.10780	9.29423	0.1578386	3.1220014	120	2	1988–2000	0.73	M-v	4	Williams	38100	1999 VJ ₇
1999 VP ₇	14.3	0.15	20000226	73.06838	121.36658	218.74377	10.85036	0.2210314	2.5559294	107	2	1998–2000	0.64	M-v	4	Williams	38100	1999 VP ₇
1999 VQ ₇	14.4	0.15	20000226	94.51028	198.69953	122.95576	2.56497	0.1343192	2.8709854	61	3	1989–1999	0.68	M-v	4	Williams	38814	1999 VQ ₇
1999 VR ₇	13.0	0.15	20000226	187.62232	187.53810	58.99990	15.12085	0.0357716	3.2128063	88	1	86 days	0.55	M-v	4	Williams	38100	1999 VR ₇
1999 VT ₇	13.2	0.15	20000226	62.99268	306.90572	59.54831	15.61255	0.1290760	2.6074003	108	3	1978–2000	0.44	M-v	2	Williams	38814	1999 VT ₇
1999 VW ₇	16.2	0.15	19991118	3.84911	347.21837	63.54030	5.92186	0.2343244	2.5748453	92	1	44 days	0.41			Williams		1999 VW ₇
1999 VB ₈	15.3	0.15	20000226	15.21029	292.12419	151.80404	2.28199	0.1831730	2.3899127	76	3	1995–2000	0.57	M-v	2	Williams	39552	1999 VB ₈

1999 VF ₈	12.9	0.15	20000226	40.44269	321.41403	92.89300	12.14319	0.2371324	3.1121051	83	1	175 days	0.52	M-v	3	Williams	39552	1999 VF ₈
1999 VH ₈	12.6	0.15	20000226	292.04213	93.44638	118.67196	10.87973	0.0438578	2.9827023	91	1	128 days	0.51	M-v	4	Williams	39552	1999 VH ₈
1999 VJ ₈	12.8	0.15	20000226	106.42154	77.45880	292.75971	12.19823	0.2152369	2.6520438	119	2	1998–2000	0.55	M-v	3	Williams	39552	1999 VJ ₈
1999 VM ₈	14.8	0.15	20000226	10.59893	345.58802	61.05056	4.84136	0.1524926	2.6836992	59	1	90 days	0.53	M-v	4	Williams	38101	1999 VM ₈
1999 VO ₈	14.8	0.15	20000226	3.09521	251.73132	193.89550	5.89945	0.1140947	2.3895530	77	1	149 days	0.47	M-v	3	Williams	39552	1999 VO ₈
1999 VP ₈	15.1	0.15	20000226	349.59667	14.17052	85.07258	5.37255	0.1900929	2.3467983	62	1	97 days	0.53	M-v	4	Williams	38101	1999 VP ₈
1999 VQ ₈	15.4	0.15	20000226	48.63041	308.44892	66.30036	12.40711	0.2996500	2.6248545	54	1	112 days	0.61	M-v	4	Williams	38814	1999 VQ ₈
1999 VR ₈	15.0	0.15	20000226	65.76612	292.06135	87.30845	7.18454	0.1243933	2.2445023	73	1	124 days	0.49	M-v	4	Williams	38814	1999 VR ₈
1999 VS ₈	14.6	0.15	20000226	38.96929	276.30023	120.96244	13.56228	0.2128003	2.5788548	40	1	94 days	0.52	M-v	4	Williams	38101	1999 VS ₈
1999 VT ₈	13.5	0.15	20000226	36.25025	264.62117	128.41038	14.87440	0.2529225	3.1281239	61	3	1988–2000	0.66	M-v	2	Williams	39552	1999 VT ₈
1999 VU ₈	13.8	0.15	20000226	57.29859	233.06722	141.10152	13.94099	0.1476007	2.8459684	67	4	1996–2000	0.64	M-v	1	Williams	38814	1999 VU ₈
1999 VV ₈	15.8	0.15	20000226	95.82734	267.48270	53.57053	5.35625	0.2553611	2.2718221	59	1	111 days	0.77	M-v	4	Williams	38814	1999 VV ₈
1999 VX ₈	14.7	0.15	20000226	35.12063	199.86503	171.60185	13.65591	0.2600080	2.6815907	30	1	97 days	0.52	M-v	3	Williams		1999 VX ₈
1999 VY ₈	13.7	0.15	20000226	38.59258	282.97498	91.40592	10.20691	0.2271226	2.4108062	53	1	117 days	0.45	M-v	3	Williams	38101	1999 VY ₈
1999 VZ ₈	13.9	0.15	20000226	359.50074	347.38562	84.32679	13.39847	0.2322074	2.5454038	56	1	144 days	0.52	M-v	3	Williams	38814	1999 VZ ₈
1999 VA ₉	12.6	0.15	20000226	4.91880	255.26436	176.85676	15.49843	0.3064716	2.6469774	48	1	145 days	0.45	M-v	3	Williams	39552	1999 VA ₉
1999 VB ₉	13.1	0.15	20000226	12.72541	259.73776	151.22100	13.26562	0.3306765	2.9240598	63	2	1974–2000	0.56	M-v	2	Williams	38814	1999 VB ₉
1999 VD ₉	13.7	0.15	20000226	12.92732	335.78473	71.81884	14.64008	0.1698340	2.5300212	47	1	119 days	0.53	M-v	3	Williams	38101	1999 VD ₉
1999 VE ₉	14.4	0.15	20000226	39.94839	350.91848	97.29329	1.32854	0.2154706	2.4330166	104	4	1976–2000	0.51	M-v	1	Williams	39552	1999 VE ₉
1999 VF ₉	13.1	0.15	20000226	86.96335	280.36759	50.47564	13.40986	0.1937659	2.7063575	63	1	109 days	0.46	M-v	4	Williams	38814	1999 VF ₉
1999 VG ₉	15.1	0.15	19991118	21.74112	160.09979	222.03016	9.77904	0.2312664	3.1517747	45	1	40 days	0.56			Williams		1999 VG ₉
1999 VH ₉	15.2	0.15	20000226	38.28784	355.56826	43.25551	5.43947	0.1857325	2.4247423	74	1	115 days	0.51	M-v	3	Williams	38814	1999 VH ₉
1999 VK ₉	15.4	0.15	19991118	61.99621	107.91505	233.61215	4.94502	0.1229157	2.2585762	61	1	45 days	0.60			Williams		1999 VK ₉
1999 VL ₉	13.6	0.15	20000226	208.62945	356.38519	237.20260	18.02090	0.1185516	2.7527231	89	2	1998–2000	0.69	M-v	4	Williams	38101	1999 VL ₉
1999 VM ₉	16.7	0.15	19991118	14.22876	342.59615	52.22106	4.30044	0.2346928	2.3252956	61	1	46 days	0.48			Williams		1999 VM ₉
1999 VN ₉	13.7	0.15	20000226	195.05616	7.90769	243.22067	3.55823	0.1192029	2.2334890	79	2	1998–1999	0.51	M-v	4	Williams	38101	1999 VN ₉
1999 VQ ₉	14.9	0.15	20000226	24.56113	202.92935	222.92928	4.16458	0.2633028	2.6056542	82	1	114 days	0.49	M-v	3	Williams	38814	1999 VQ ₉
1999 VR ₉	13.9	0.15	20000226	45.37914	307.51281	101.21728	6.75725	0.2762143	2.5579096	84	4	1962–2000	0.57	M-v	2	Williams	39552	1999 VR ₉
1999 VS ₉	13.9	0.15	20000226	59.41461	183.04649	159.68658	15.05748	0.1918959	2.6479132	44	1	119 days	0.55	M-v	4	Williams	38101	1999 VS ₉
1999 VT ₉	13.2	0.15	20000226	337.38472	359.67196	90.57571	14.67065	0.1242299	2.6218526	45	1	117 days	0.65	M-v	4	Williams	38101	1999 VT ₉
1999 VU ₉	12.2	0.15	20000226	336.95232	305.02999	134.46378	16.82680	0.0984778	3.2180183	46	2	1998–1999	0.57	M-v	3	Williams	38101	1999 VU ₉
1999 VV ₉	13.3	0.15	20000226	28.20439	206.69068	173.35993	17.85144	0.2155178	3.1064099	45	1	119 days	0.69	M-v	4	Williams	38101	1999 VV ₉
1999 VW ₉	12.6	0.15	20000226	17.70211	306.90602	87.76532	18.21819	0.1344079	3.0851138	45	1	103 days	0.50	M-v	3	Williams	38101	1999 VW ₉
1999 VX ₉	12.7	0.15	20000226	288.00371	16.61573	122.89371	14.20474	0.1058116	2.5580394	58	3	1994–2000	0.57	M-v	3	Williams	38101	1999 VX ₉
1999 VY ₉	13.7	0.15	20000226	356.03482	107.12499	334.51878	9.79864	0.1723124	2.9476481	57	1	118 days	0.55	M-v	4	Williams	38814	1999 VY ₉
1999 VZ ₉	13.4	0.15	20000226	325.46930	196.91813	285.48397	7.28897	0.0986160	2.2730388	88	4	1980–2000	0.57	M-v	1	Williams	39552	1999 VZ ₉
1999 VB ₁₀	13.7	0.15	20000226	25.23528	87.17564	311.81422	9.44184	0.2429279	2.9772806	69	1	118 days	0.54	M-v	3	Williams	38814	1999 VB ₁₀
1999 VE ₁₀	13.6	0.15	20000226	325.36605	163.38295	310.85766	7.35843	0.0407901	2.3411280	57	1	127 days	0.45	M-v	4	Williams	38814	1999 VE ₁₀
1999 VF ₁₀	14.6	0.15	20000226	48.39179	290.39729	87.43120	12.44775	0.2992906	2.6603564	54	1	112 days	0.66	M-v	4	Williams	38814	1999 VF ₁₀
1999 VK ₁₀	13.8	0.15	20000226	86.94254	113.98590	219.22235	11.03972	0.2783490	2.5465284	76	2	1998–2000	0.52	M-v	3	Williams	38814	1999 VK ₁₀
1999 VL ₁₀	14.3	0.15	20000226	72.24249	134.66383	221.56038	8.26914	0.2553357	2.3173986	86	2	1998–2000	0.63	M-v	4	Williams	39552	1999 VL ₁₀
1999 VM ₁₀	14.3	0.15	20000226	7.49927	9.05906	85.43747	8.40593	0.2856364	2.6332532	84	2	1996–2000	0.54	M-v	3	Williams	39552	1999 VM ₁₀
1999 VO ₁₀	14.9	0.15	20000226	71.60709	109.59109	260.63665	5.93154	0.1460668	2.3847514	53	1	85 days	0.56	M-v	4	Williams	38101	1999 VO ₁₀
1999 VR ₁₀	12.3	0.15	20000226	50.28515	308.28032	81.70095	11.39641	0.1195092	2.9947504	78	2	1997–2000	0.54	M-v	3	Williams	38814	1999 VR ₁₀
1999 VS ₁₀	13.5	0.15	20000226	42.11770	300.87700	107.81947	7.45420	0.1034159	2.3588433	63	1	146 days	0.55	M-v	3	Williams	39552	1999 VS ₁₀
1999 VT ₁₀	15.0	0.15	20000226	345.58872	313.41610	166.34213	3.91253	0.1046240	2.2741153	54	1	88 days	0.48	M-v	4	Williams	38101	1999 VT ₁₀
1999 VV ₁₀	15.0	0.15	20000226	71.93380	321.38193	66.06116	23.08529	0.0701599	1.8438926	68	2	1998–2000	0.51	M-v	3	Williams	38814	1999 VV ₁₀
1999 VW ₁₀	13.6	0.15	20000226	289.60460	69.20161	113.22903	8.44547	0.1288789	2.2378841	68	2	1998–2000	0.54	M-v	3	Williams	39552	1999 VW ₁₀
1999 VA ₁₁	15.1	0.15	20000226	31.66419	136.62287	251.05742	4.74818	0.2261600	2.6435676	75	1	62 days	0.44	M-v	4	Williams	38102	1999 VA ₁₁
1999 VB ₁₁	14.0	0.15	20000226	34.16893	118.34603	261.55466	4.56600	0.1224234	2.9742229	62	1	96 days	0.56	M-v	4	Williams	38102	1999 VB ₁₁
1999 VF ₁₁	15.0	0.15	20000226	75.20597	115.20068	222.15037	13.62388	0.2041091	2.6211767	64	1	64 days	0.58	M-v	4	Williams	38102	1999 VF ₁₁
1999 VG ₁₁	14.0	0.15	20000226	212.19355	157.32396	71.09112	7.14129	0.0697912	2.3737928	94	2	1998–2000	0.60	M-v	3	Williams	39552	1999 VG ₁₁
1999 VJ ₁₁	14.4	0.15	20000226	57.95033	324.09428	52.33629	6.44460	0.1324075	2.5352400	73	3	1995–1999	0.59	M-v	3	Williams	38102	1999 VJ ₁₁

1999 VK ₁₁	15.6	0.15	20000226	75.53551	102.58872	244.66216	1.12534	0.2276940	2.3798766	69	3	1995–1999	0.66	M-v	3	Williams	38102	1999 VK ₁₁
1999 VS ₁₁	16.3	0.15	20000226	2.99279	41.15941	52.71459	5.92843	0.2006925	2.3645862	66	1	78 days	0.58	M-v	4	Williams	38102	1999 VS ₁₁
1999 VT ₁₁	13.9	0.15	20000226	19.87176	191.71616	207.72579	10.78575	0.1220675	3.0683265	62	1	99 days	0.56	M-v	4	Williams	38814	1999 VT ₁₁
1999 VW ₁₁	12.5	0.15	20000226	10.52746	330.72259	46.32193	13.96475	0.1104994	2.9776634	44	3	1984–1999	0.52	M-v	3	Williams	39317	1999 VW ₁₁
1999 VX ₁₁	12.6	0.15	20000226	345.73131	307.48625	108.66003	9.98549	0.1640001	2.8926815	43	1	79 days	0.56	M-v	5	Williams	38102	1999 VX ₁₁
1999 VY ₁₁	13.9	0.15	20000226	31.46096	87.04853	281.82144	9.12009	0.3755320	3.0407058	82	1	167 days	0.41	M-v	3	Williams	38102	1999 VY ₁₁
1999 VZ ₁₁	13.1	0.15	20000226	97.84569	352.90360	311.02265	10.00142	0.1485673	2.5972375	91	4	1982–2000	0.52	M-v	2	Williams	38102	1999 VZ ₁₁
1999 VA ₁₂	14.5	0.15	20000226	62.00752	91.24477	261.78222	6.36568	0.2152270	2.3195144	88	3	1992–2000	0.54	M-v	2	Williams	38102	1999 VA ₁₂
1999 VB ₁₂	12.8	0.15	20000226	279.94034	183.25366	337.56422	8.39341	0.1114553	2.5579944	57	1	149 days	0.43	M-v	4	Williams	38814	1999 VB ₁₂
1999 VF ₁₂	16.8	0.15	20000226	284.91327	125.64432	40.49413	23.52587	0.0823081	1.9281345	37	2	1998–1999	0.59	M-v	4	Williams	38102	1999 VF ₁₂
1999 VM ₁₂	14.8	0.15	20000226	14.04433	355.61956	70.32245	3.49149	0.1893573	2.6942255	70	3	1977–2000	0.51	M-v	2	Williams	38815	1999 VM ₁₂
1999 VN ₁₂	15.4	0.15	19991118	32.96410	274.46730	97.39380	2.97957	0.1620973	2.3982095	68	1	38 days	0.46			Williams		1999 VN ₁₂
1999 VP ₁₂	14.3	0.15	20000226	15.23620	266.65405	164.42819	3.52177	0.1411791	2.5179307	63	2	1991–2000	0.53	M-v	3	Williams	39552	1999 VP ₁₂
1999 VQ ₁₂	12.5	0.15	20000226	274.14016	321.42665	218.16737	11.91373	0.1080229	2.6679585	93	4	1988–2000	0.57	M-v	1	Williams	39552	1999 VQ ₁₂
1999 VR ₁₂	12.1	0.15	20000226	83.74444	265.64515	77.25850	10.81089	0.1068303	3.0193178	92	2	1978–2000	0.54	M-v	4	Williams	39552	1999 VR ₁₂
1999 VS ₁₂	14.5	0.15	20000226	63.17822	291.36610	65.22296	9.19984	0.2821441	2.3982405	95	2	1998–2000	0.53	M-v	4	Williams	38815	1999 VS ₁₂
1999 VT ₁₂	15.2	0.15	20000226	50.21163	327.12426	62.65389	6.01465	0.1798599	2.2591056	86	1	112 days	0.54	M-v	4	Williams	38815	1999 VT ₁₂
1999 VU ₁₂	13.6	0.15	20000226	43.59441	328.34266	65.77465	9.63550	0.1175299	2.7262476	105	1	113 days	0.54	M-v	3	Williams	38815	1999 VU ₁₂
1999 VV ₁₂	11.3	0.15	20000226	261.80820	114.15714	73.77499	21.52784	0.0961696	3.1497272	86	2	1988–2000	0.52	M-v	3	Williams	39552	1999 VV ₁₂
1999 VW ₁₂	15.3	0.15	20000226	48.71522	61.19758	324.50507	2.47977	0.1629137	2.3303015	60	1	114 days	0.56	M-v	4	Williams	38815	1999 VW ₁₂
1999 VX ₁₂	13.1	0.15	20000226	43.16201	34.28017	335.26304	19.61085	0.0662025	3.2181073	30	1	88 days	0.59	M-v	4	Williams	38102	1999 VX ₁₂
1999 VZ ₁₂	15.8	0.15	19991009	346.68322	39.29957	14.71851	25.48246	0.1874165	2.2924840	14	1	17 days	0.39			Williams		1999 VZ ₁₂
1999 VF ₁₃	14.1	0.15	20000226	39.59875	13.99716	44.83497	25.89308	0.2417932	2.3529403	58	2	1988–2000	0.55	M-v	3	Williams	38815	1999 VF ₁₃
1999 VJ ₁₃	14.6	0.15	20000226	314.22901	133.04378	52.26920	25.23171	0.1057574	1.8798250	42	1	145 days	0.61	M-v	4	Williams	38815	1999 VJ ₁₃
1999 VL ₁₃	16.0	0.15	20000226	35.95093	154.58586	242.30977	18.99022	0.0801476	1.9807184	32	1	91 days	0.50	M-v	4	Williams	38102	1999 VL ₁₃
1999 VM ₁₃	15.4	0.15	20000226	35.38904	155.44885	242.78355	19.32189	0.0906428	1.9746383	42	1	107 days	0.48	M-v	3	Williams	38102	1999 VM ₁₃
1999 VU ₁₃	16.7	0.15	19991029	18.74570	109.35970	242.49795	20.22737	0.3206528	2.4438289	16	1	12 days	0.29			Williams		1999 VU ₁₃
1999 VE ₁₄	15.6	0.15	20000226	53.70606	137.05194	242.16552	22.17959	0.2483832	2.3122333	57	1	89 days	0.55	M-v	4	Williams	38102	1999 VE ₁₄
1999 VJ ₁₄	14.2	0.15	20000226	9.97433	59.02621	56.49265	23.13138	0.2399965	2.3238138	45	1	168 days	0.58	M-v	3	Williams	39552	1999 VJ ₁₄
1999 VX ₁₄	15.6	0.15	20000226	240.50327	244.88269	280.07303	1.95845	0.0878985	2.3155428	32	1	69 days	0.51	M-v	4	Williams	38815	1999 VX ₁₄
1999 VA ₁₅	15.4	0.15	20000226	247.58345	319.37165	195.77253	11.92867	0.1246986	2.6429337	19	2	1993–1999	0.39	M-v	4	Williams	38570	1999 VA ₁₅
1999 VQ ₁₅	16.2	0.15	20000226	63.24453	27.37358	318.58970	2.25062	0.1930701	2.3687163	62	2	1977–1999	0.48	M-v	4	Williams	38570	1999 VQ ₁₅
1999 VJ ₁₆	14.2	0.15	20000226	64.23457	123.41785	223.23817	11.77660	0.0774879	2.7378725	74	4	1984–1999	0.54	M-v	2	Williams	39317	1999 VJ ₁₆
1999 VW ₁₆	14.5	0.15	20000226	38.89946	87.94133	288.78225	1.92891	0.1103476	2.6989463	78	2	1990–2000	0.48	M-v	4	Williams	37829	1999 VW ₁₆
1999 VW ₁₇	16.5	0.15	20000226	297.27583	251.04875	246.40993	4.50434	0.0908264	2.2908800	23	2	1995–1999	0.45	M-v	4	Williams	37830	1999 VW ₁₇
1999 VG ₁₈	15.6	0.15	20000226	49.95428	74.31191	288.37600	1.55331	0.1505055	2.6584006	48	2	1994–1999	0.54	M-v	5	Williams	37830	1999 VG ₁₈
1999 VL ₁₈	14.2	0.15	20000226	66.64950	110.55617	227.69102	7.36053	0.1614128	2.7723427	95	2	1998–2000	0.47	M-v	3	Williams	38103	1999 VL ₁₈
1999 VO ₁₈	15.4	0.15	19991029	331.29114	120.13030	305.69196	1.64514	0.0583845	2.6918423	31	1	17 days	0.32			Williams		1999 VO ₁₈
1999 VA ₁₉	13.9	0.15	20000226	54.19994	136.92867	237.14209	25.99895	0.1005950	3.1485935	90	2	1997–1999	0.71	M-v	4	Williams	38103	1999 VA ₁₉
1999 VE ₁₉	14.2	0.15	20000226	327.21203	67.06459	57.34016	6.62995	0.0465013	2.2041476	101	2	1986–2000	0.50	M-v	4	Williams	38815	1999 VE ₁₉
1999 VF ₁₉	15.4	0.15	20000226	4.23244	210.44780	233.68718	3.35056	0.1433486	2.6324291	76	4	1971–2000	0.67	M-v	2	Williams	38815	1999 VF ₁₉
1999 VK ₁₉	14.4	0.15	20000226	37.10667	173.06805	237.47705	11.67571	0.1636404	2.5883447	61	1	87 days	0.44	M-v	4	Williams	38103	1999 VK ₁₉
1999 VL ₁₉	15.9	0.15	19991029	13.47978	135.60485	238.17219	1.71364	0.1870977	2.5618896	46	1	56 days	1.07			Williams		1999 VL ₁₉
1999 VN ₁₉	15.9	0.15	20000226	8.87437	279.98612	150.38866	3.33032	0.1344510	2.5335648	34	2	1995–1999	0.63	M-v	5	Williams	38570	1999 VN ₁₉
1999 VR ₁₉	15.4	0.15	20000226	58.61392	174.06930	205.69181	2.80133	0.1566386	2.2382352	80	1	100 days	0.46	M-v	4	Williams	38104	1999 VR ₁₉
1999 VS ₁₉	13.1	0.15	20000226	21.84310	184.68210	230.55227	11.56504	0.1460260	3.1366472	84	1	145 days	0.49	M-v	3	Williams	39552	1999 VS ₁₉
1999 VT ₁₉	15.1	0.15	20000226	21.96353	97.95094	291.45624	11.61085	0.3321499	3.1488524	49	1	85 days	0.70	M-v	4	Williams	38104	1999 VT ₁₉
1999 VU ₁₉	14.7	0.15	20000226	235.23957	148.67310	52.16276	6.14903	0.0798020	2.3146816	68	1	93 days	0.61	M-v	4	Williams	38104	1999 VU ₁₉
1999 VW ₁₉	14.9	0.15	19991029	333.87842	318.60068	114.71134	2.13173	0.1683098	3.1741175	31	1	28 days	0.94			Williams		1999 VW ₁₉
1999 VZ ₁₉	16.5	0.15	19991029	50.11184	288.15168	33.41652	5.69851	0.2150082	2.2801360	36	1	27 days	0.56			Williams		1999 VZ ₁₉
1999 VH ₂₀	13.7	0.15	20000226	36.30861	83.69351	288.42032	10.74631	0.1852791	2.6569737	79	3	1976–2000	0.50	M-v	2	Williams	38570	1999 VH ₂₀
1999 VJ ₂₀	13.8	0.15	20000226	45.03553	31.82814	332.13059	12.40923	0.1717970	2.6639256	70	2	1990–2000	0.48	M-v	3	Williams	38815	1999 VJ ₂₀
1999 VK ₂₀	13.4	0.15	20000226	2.65567	81.78267	340.83889	15.31281	0.2350590	3.0928262	47	1	145 days	0.53	M-v	3	Williams	38815	1999 VK ₂₀

1999 VL ₂₀	14.1	0.15	20000226	11.99550	112.14361	306.77453	11.10787	0.2483833	2.6244237	62	1	192 days	0.42	M-v	3	Williams	38815	1999 VL ₂₀
1999 VM ₂₀	12.8	0.15	20000226	333.02212	139.66359	320.09911	12.70482	0.1245425	2.6711225	47	1	146 days	0.47	M-v	4	Williams	38815	1999 VM ₂₀
1999 VO ₂₀	13.2	0.15	20000226	358.90472	149.02001	282.05856	14.26564	0.0983973	2.5831541	45	1	169 days	0.50	M-v	4	Williams	38104	1999 VO ₂₀
1999 VP ₂₀	13.7	0.15	20000226	337.24700	161.31781	307.78572	9.82172	0.2350751	2.6938852	53	1	146 days	0.55	M-v	4	Williams	38815	1999 VP ₂₀
1999 VQ ₂₀	14.6	0.15	20000226	61.65081	357.98355	353.06596	10.84688	0.2235854	2.3817922	40	1	119 days	0.45	M-v	4	Williams	38815	1999 VQ ₂₀
1999 VR ₂₀	13.3	0.15	20000226	203.28231	15.06470	223.05595	14.24673	0.0705700	2.5961257	111	3	1978–2000	0.54	M-v	3	Williams	39552	1999 VR ₂₀
1999 VV ₂₀	14.0	0.15	20000226	358.19076	37.44592	56.43905	15.89339	0.1082386	2.8500901	60	1	84 days	0.55	M-v	4	Williams	38104	1999 VV ₂₀
1999 VW ₂₀	14.8	0.15	20000226	23.13905	143.83387	255.99560	10.49283	0.1592117	2.4264481	75	1	88 days	0.55	M-v	4	Williams	38104	1999 VW ₂₀
1999 VX ₂₀	14.1	0.15	20000226	75.47685	82.66567	248.95743	7.73021	0.1556063	2.7452939	79	2	1998–2000	0.70	M-v	3	Williams	38104	1999 VX ₂₀
1999 VA ₂₁	15.7	0.15	20000226	148.58212	63.63377	236.25276	20.10504	0.0598458	1.9175182	94	2	1993–2000	0.53	M-v	4	Williams	38104	1999 VA ₂₁
1999 VB ₂₁	14.3	0.15	20000226	325.63231	62.50573	84.82627	7.98619	0.1384844	2.3367878	90	1	146 days	0.60	M-v	4	Williams	39552	1999 VB ₂₁
1999 VG ₂₁	16.3	0.15	20000226	73.68286	117.60433	223.26251	3.78001	0.1585748	2.1601311	70	1	66 days	0.51	M-v	4	Williams	38815	1999 VG ₂₁
1999 VH ₂₁	14.2	0.15	20000226	355.11537	222.82430	209.91421	11.14513	0.1721469	2.6992541	79	1	98 days	0.49	M-v	4	Williams	38815	1999 VH ₂₁
1999 VJ ₂₁	15.9	0.15	20000226	13.33541	216.18443	200.13354	2.12169	0.1875463	2.4413919	45	2	1995–1999	0.45	M-v	4	Williams	38815	1999 VJ ₂₁
1999 VK ₂₁	14.0	0.15	20000226	29.26513	150.27555	327.13424	5.53418	0.1770195	2.5313080	93	2	1998–2000	0.56	M-v	3	Williams	39552	1999 VK ₂₁
1999 VM ₂₁	15.2	0.15	20000226	65.73936	148.40702	213.04891	1.09537	0.0457939	2.5393040	42	2	1995–1999	0.57	M-v	4	Williams	37830	1999 VM ₂₁
1999 VQ ₂₁	14.9	0.15	20000226	129.84786	242.96881	46.49586	3.15465	0.1632582	2.4346332	50	3	1976–1999	0.64	M-v	4	Williams	37831	1999 VQ ₂₁
1999 VR ₂₁	14.2	0.15	20000226	286.04684	328.95745	194.89111	6.41634	0.1347963	2.5539600	65	3	1995–1999	0.64	M-v	3	Williams	38815	1999 VR ₂₁
1999 VS ₂₁	13.2	0.15	20000226	83.11492	226.24173	97.48831	5.54087	0.1934676	3.0976269	90	2	1998–2000	0.54	M-v	3	Williams	38816	1999 VS ₂₁
1999 VB ₂₂	15.2	0.15	20000226	114.39422	100.84525	210.32638	0.82551	0.0548118	2.4926947	65	2	1994–1999	0.58	M-v	5	Williams	38816	1999 VB ₂₂
1999 VC ₂₂	15.2	0.15	20000226	37.48628	254.62656	139.66618	3.22576	0.1822611	2.4540410	56	1	89 days	0.51	M-v	4	Williams	38816	1999 VC ₂₂
1999 VG ₂₂	18.6	0.15	20000226	357.30970	222.45813	271.50447	2.85289	0.3296625	1.6467492	78	2	1998–1999	0.55	M-v	3	Williams	38105	1999 VG ₂₂
1999 VH ₂₂	12.8	0.15	20000226	319.10712	58.52088	42.41432	14.83069	0.1908226	3.1672948	56	1	82 days	0.48	M-v	4	Williams	38105	1999 VH ₂₂
1999 VJ ₂₂	15.0	0.15	20000226	103.44900	189.36007	118.19086	9.21382	0.1212623	2.4068528	69	3	1991–2000	0.76	M-v	2	Williams	38105	1999 VJ ₂₂
1999 VL ₂₂	12.3	0.15	20000226	119.21575	24.41700	261.68351	8.55617	0.0621517	3.0698573	69	1	95 days	0.50	M-v	4	Williams	38105	1999 VL ₂₂
1999 VM ₂₂	13.3	0.15	20000226	70.21498	330.06513	7.87265	7.16688	0.1039223	2.7706365	102	1	114 days	0.47	M-v	4	Williams	38105	1999 VM ₂₂
1999 VO ₂₂	13.8	0.15	20000226	26.43581	14.49156	8.75004	8.41951	0.2275140	3.1601279	77	1	116 days	0.53	M-v	3	Williams	38105	1999 VO ₂₂
1999 VP ₂₂	15.3	0.15	20000226	23.97582	82.89426	326.82266	3.33296	0.2498955	2.3080858	92	2	1994–2000	0.50	M-v	2	Williams	39552	1999 VP ₂₂
1999 VQ ₂₂	13.6	0.15	20000226	338.14973	222.80629	234.85123	11.88544	0.1442996	2.5468793	58	1	96 days	0.48	M-v	4	Williams	38105	1999 VQ ₂₂
1999 VT ₂₂	13.4	0.15	20000226	354.71949	115.89625	329.07953	8.51557	0.1410839	2.6539404	59	2	1992–2000	0.55	M-v	3	Williams	38816	1999 VT ₂₂
1999 VV ₂₂	13.5	0.15	20000226	294.98471	317.08552	221.46721	36.29165	0.1340414	2.7494177	41	1	124 days	0.60	M-v	4	Williams	38816	1999 VV ₂₂
1999 VW ₂₂	13.9	0.15	20000226	147.15313	138.63252	129.80441	15.60037	0.0179715	2.6700423	35	1	119 days	0.61	M-v	4	Williams	38105	1999 VW ₂₂
1999 VY ₂₂	14.9	0.15	20000226	42.09698	244.25416	139.25719	2.31892	0.1976455	2.5158610	80	4	1991–2000	0.59	M-v	2	Williams	38816	1999 VY ₂₂
1999 VZ ₂₂	14.8	0.15	20000226	60.84935	273.62865	103.67323	4.47083	0.1068760	2.2729493	76	3	1995–2000	0.49	M-v	3	Williams	38816	1999 VZ ₂₂
1999 VE ₂₃	12.9	0.15	20000226	30.30264	330.02472	64.81808	9.83271	0.2018167	2.5874014	87	2	1978–2000	0.44	M-v	2	Williams	39552	1999 VE ₂₃
1999 VF ₂₃	14.7	0.15	20000226	198.28148	300.70621	294.61927	3.14790	0.0886323	2.2677168	54	2	1998–1999	0.65	M-v	5	Williams	37831	1999 VF ₂₃
1999 VK ₂₃	16.0	0.15	20000226	23.32935	346.65280	67.21335	7.02528	0.2335038	2.3431344	64	1	66 days	0.55	M-v	4	Williams	38105	1999 VK ₂₃
1999 VL ₂₃	14.8	0.15	20000226	15.85451	211.05186	222.20740	23.59927	0.2643200	2.2636235	84	1	187 days	0.46	M-v	3	Williams	39552	1999 VL ₂₃
1999 VN ₂₃	16.1	0.15	20000226	41.34831	308.94664	58.87296	6.77201	0.4856801	2.8010900	74	1	87 days	0.55	M-v	4	Williams	38105	1999 VN ₂₃
1999 VO ₂₃	13.6	0.15	20000226	39.89014	172.85068	206.33909	15.18859	0.1994962	2.6212806	97	3	1986–2000	0.56	M-v	2	Williams	38816	1999 VO ₂₃
1999 VP ₂₃	13.3	0.15	20000226	60.71913	272.24964	76.17103	13.59328	0.2078716	2.6771390	97	3	1977–2000	0.49	M-v	2	Williams	38816	1999 VP ₂₃
1999 VQ ₂₃	14.0	0.15	20000226	314.87004	2.26190	124.13629	5.76459	0.0670581	2.2844182	78	4	1985–2000	0.68	M-v	2	Williams	38105	1999 VQ ₂₃
1999 VR ₂₃	14.3	0.15	20000226	67.41222	275.94697	71.43140	6.68596	0.2081748	2.4462216	106	2	1998–2000	0.57	M-v	3	Williams	39552	1999 VR ₂₃
1999 VS ₂₃	14.3	0.15	20000226	0.38680	316.26120	122.17946	4.21123	0.1815909	2.5343276	61	1	98 days	0.57	M-v	4	Williams	38105	1999 VS ₂₃
1999 VT ₂₃	13.7	0.15	20000226	97.77489	163.74245	149.24560	6.52393	0.1928458	2.2672221	82	2	1998–2000	0.58	M-v	3	Williams	38816	1999 VT ₂₃
1999 VU ₂₃	13.0	0.15	20000226	342.93581	274.04965	186.75691	11.02908	0.1373505	2.5638410	75	1	121 days	0.52	M-v	4	Williams	38816	1999 VU ₂₃
1999 VV ₂₃	13.1	0.15	20000226	336.36756	304.31643	176.48978	9.45560	0.1760568	2.4322836	85	4	1989–2000	0.55	M-v	1	Williams	39552	1999 VV ₂₃
1999 VW ₂₃	12.9	0.15	20000226	42.76008	218.79027	170.03628	9.48815	0.1708173	2.7797113	83	4	1971–2000	0.50	M-v	1	Williams	39552	1999 VW ₂₃
1999 VX ₂₃	14.9	0.15	20000226	36.51268	130.85682	274.05574	6.26743	0.1892643	2.5830349	50	1	116 days	0.62	M-v	4	Williams	39552	1999 VX ₂₃
1999 VZ ₂₃	14.4	0.15	20000226	35.62896	6.08336	48.34073	5.16078	0.1205517	2.1680421	68	2	1998–2000	0.52	M-v	3	Williams	38816	1999 VZ ₂₃
1999 VA ₂₄	16.8	0.15	19991029	7.86529	131.94186	257.13488	4.20782	0.1197289	2.1844465	32	1	18 days	0.75			Williams		1999 VA ₂₄
1999 VC ₂₄	13.8	0.15	20000226	17.63518	136.99825	269.56657	4.50648	0.1505320	3.1380961	66	2	1988–1999	0.66	M-v	4	Williams	38105	1999 VC ₂₄
1999 VH ₂₄	13.8	0.15	20000226	77.11708	148.73761	184.42556	6.19879	0.1502698	2.4017672	74	2	1998–2000	0.46	M-v	3	Williams	37831	1999 VH ₂₄

1999 VK ₂₄	14.7	0.15	20000226	53.02660	224.63201	137.82862	3.04607	0.2263064	2.3602524	74	3	1988–2000	0.55	M-v	2	Williams	38105	1999 VK ₂₄
1999 VL ₂₄	12.7	0.15	20000226	15.69345	77.00909	343.32325	12.17983	0.1657394	2.6568951	57	2	1990–2000	0.46	M-v	3	Williams	38105	1999 VL ₂₄
1999 VM ₂₄	13.8	0.15	20000226	57.74128	115.04142	261.29334	18.93348	0.0411606	2.2977424	65	2	1998–2000	0.45	M-v	3	Williams	38816	1999 VM ₂₄
1999 VN ₂₄	13.2	0.15	20000226	2.93543	286.32679	176.50205	22.97043	0.2945337	2.3165153	66	1	204 days	0.44	M-v	3	Williams	39552	1999 VN ₂₄
1999 VO ₂₄	13.1	0.15	20000226	28.57703	167.20703	228.86534	11.30265	0.1878692	2.6731835	115	3	1964–2000	0.56	M-v	2	Williams	39552	1999 VO ₂₄
1999 VP ₂₄	15.2	0.15	20000226	92.59499	23.07393	280.77008	7.65937	0.2257178	2.2834554	39	1	128 days	0.65	M-v	4	Williams		1999 VP ₂₄
1999 VQ ₂₄	10.4	0.15	20000226	82.93405	277.31736	96.40530	13.44708	0.0818385	5.1900881	77	1	173 days	0.48	M-v	4	Williams	38816	1999 VQ ₂₄
1999 VS ₂₄	15.2	0.15	20000226	3.62955	59.10170	41.26262	2.89664	0.1422535	2.4025413	65	3	1995–2000	0.58	M-v	2	Williams	38816	1999 VS ₂₄
1999 VT ₂₄	14.4	0.15	20000226	50.09106	268.02748	126.36835	2.77525	0.1870127	2.4166351	85	2	1995–2000	0.40	M-v	3	Williams	39552	1999 VT ₂₄
1999 VV ₂₄	14.5	0.15	20000226	81.80739	98.87961	252.60317	9.40121	0.2365620	2.2799871	59	1	144 days	0.46	M-v	4	Williams	39552	1999 VV ₂₄
1999 VW ₂₄	11.6	0.15	20000226	302.81532	258.48762	258.60699	19.63773	0.0675698	3.1545411	77	3	1992–2000	0.63	M-v	3	Williams	39552	1999 VW ₂₄
1999 VX ₂₄	14.8	0.15	20000226	43.80631	193.08626	211.59828	3.74347	0.2096009	2.2972080	79	4	1978–2000	0.57	M-v	3	Williams	39553	1999 VX ₂₄
1999 VY ₂₄	13.9	0.15	20000226	307.37194	197.79326	328.66547	3.13311	0.1469579	2.5641575	71	4	1972–2000	0.77	M-v	3	Williams	39553	1999 VY ₂₄
1999 VZ ₂₄	13.5	0.15	20000226	6.44965	15.62336	77.16052	10.42188	0.1347491	2.7560414	64	1	144 days	0.65	M-v	3	Williams	39553	1999 VZ ₂₄
1999 VB ₂₅	14.2	0.15	20000226	46.67034	306.26278	90.93444	13.89364	0.1707875	2.6942776	53	1	124 days	0.59	M-v	4	Williams	38816	1999 VB ₂₅
1999 VC ₂₅	15.1	0.15	20000226	32.96541	316.76951	102.62163	6.21646	0.1767371	2.4698591	50	2	1993–2000	0.56	M-v	3	Williams	38816	1999 VC ₂₅
1999 VD ₂₅	13.1	0.15	20000226	120.95750	247.17735	76.02251	16.27023	0.1177663	2.6565150	72	1	122 days	0.47	M-v	4	Williams	38816	1999 VD ₂₅
1999 VG ₂₅	14.0	0.15	20000226	23.72406	41.14488	35.09389	3.94030	0.0717429	2.3783481	66	4	1973–2000	0.64	M-v	2	Williams	39553	1999 VG ₂₅
1999 VH ₂₅	14.7	0.15	20000226	49.01928	19.29867	21.87463	3.24454	0.1696011	2.3314362	42	1	109 days	0.55	M-v	4	Williams	38816	1999 VH ₂₅
1999 VJ ₂₅	14.3	0.15	20000226	90.91794	76.00792	278.21048	3.47049	0.1478715	2.2954296	48	1	121 days	0.45	M-v	4	Williams	38816	1999 VJ ₂₅
1999 VN ₂₅	14.4	0.15	20000226	64.38951	68.04796	320.40195	3.17252	0.1067206	2.2963082	49	1	129 days	0.51	M-v	4	Williams	38816	1999 VN ₂₅
1999 VQ ₂₅	14.1	0.15	20000226	99.74304	68.60414	246.79908	4.41326	0.0861088	2.7648305	118	1	70 days	0.51	M-v	4	Williams	38106	1999 VQ ₂₅
1999 VR ₂₅	14.9	0.15	20000226	44.39319	225.58448	156.51228	5.24231	0.1333914	2.4446777	54	1	97 days	0.57	M-v	4	Williams	38106	1999 VR ₂₅
1999 VY ₂₅	14.9	0.15	20000226	57.33675	289.02904	92.67740	10.35359	0.2876242	2.6927449	68	3	1976–2000	0.69	M-v	3	Williams	38572	1999 VY ₂₅
1999 VA ₂₆	14.2	0.15	20000226	327.79227	56.94243	63.96579	12.92194	0.2245178	3.0802884	55	1	86 days	0.55	M-v	4	Williams	38816	1999 VA ₂₆
1999 VB ₂₆	15.1	0.15	20000226	5.42172	213.16595	238.57795	23.91136	0.1440859	2.2544637	70	1	124 days	0.50	M-v	3	Williams	38816	1999 VB ₂₆
1999 VC ₂₆	14.2	0.15	20000226	42.03601	71.06027	313.08319	0.84446	0.2035393	3.1567887	65	2	1993–1999	0.54	M-v	5	Williams	38106	1999 VC ₂₆
1999 VD ₂₆	14.6	0.15	20000226	345.52678	223.14149	243.72141	5.53717	0.0995763	2.5682474	63	1	98 days	0.52	M-v	4	Williams	38816	1999 VD ₂₆
1999 VF ₂₆	15.7	0.15	20000226	61.79642	136.79785	228.25884	1.58473	0.2198102	2.4251824	70	2	1995–2000	0.47	M-v	4	Williams	38106	1999 VF ₂₆
1999 VL ₂₆	15.5	0.15	19991118	16.14681	325.54348	73.55435	3.11413	0.1243722	2.6258893	50	1	40 days	0.49			Williams		1999 VL ₂₆
1999 VO ₂₆	14.3	0.15	20000226	44.11113	332.51256	61.27113	3.73072	0.0969121	2.7019292	66	3	1990–2000	0.56	M-v	3	Williams	38816	1999 VO ₂₆
1999 VP ₂₆	15.7	0.15	20000226	14.19846	24.03776	53.29485	4.34551	0.1157551	2.3145905	62	2	1994–2000	0.58	M-v	4	Williams	38816	1999 VP ₂₆
1999 VU ₂₆	15.7	0.15	20000226	50.84368	130.64100	236.99265	4.24823	0.3260491	2.5684565	58	1	120 days	0.49	M-v	4	Williams	38816	1999 VU ₂₆
1999 VV ₂₆	15.2	0.15	20000226	81.51287	74.62447	267.82152	1.42612	0.2097341	2.4479094	65	3	1991–1999	0.57	M-v	4	Williams	38106	1999 VV ₂₆
1999 VX ₂₆	15.4	0.15	20000226	77.60693	278.26931	68.76175	3.64932	0.2112675	2.4428543	67	2	1991–1999	0.61	M-v	4	Williams	38106	1999 VX ₂₆
1999 VJ ₂₇	15.1	0.15	20000226	31.75857	36.74219	351.96937	3.66974	0.2080422	2.5190992	89	2	1991–2000	0.55	M-v	3	Williams	38816	1999 VJ ₂₇
1999 VK ₂₇	13.3	0.15	20000226	33.28773	8.13801	8.73698	7.99852	0.1166908	3.1148485	80	1	114 days	0.46	M-v	3	Williams	38816	1999 VK ₂₇
1999 VL ₂₇	14.7	0.15	20000226	51.01155	23.12181	341.92895	3.60359	0.1645228	2.4232981	69	3	1995–2000	0.53	M-v	3	Williams	38816	1999 VL ₂₇
1999 VN ₂₇	15.6	0.15	20000226	4.71038	61.30132	9.71071	4.93611	0.1258459	2.2995201	68	1	96 days	0.52	M-v	4	Williams	38107	1999 VN ₂₇
1999 VO ₂₇	14.3	0.15	20000226	359.21799	49.94193	17.11574	7.20873	0.1192291	2.8011754	70	2	1982–1999	0.49	M-v	4	Williams	37832	1999 VO ₂₇
1999 VR ₂₇	14.8	0.15	20000226	77.35465	91.75914	239.20856	4.67124	0.2144985	2.3107920	92	2	1998–2000	0.60	M-v	4	Williams	38107	1999 VR ₂₇
1999 VS ₂₇	13.3	0.15	20000226	74.95053	106.94904	230.15438	9.88229	0.0452002	3.1642497	72	1	65 days	0.57	M-v	4	Williams	38107	1999 VS ₂₇
1999 VT ₂₇	15.0	0.15	20000226	319.43891	89.20612	27.06859	7.39683	0.0478295	2.3049812	65	1	98 days	0.51	M-v	4	Williams	38107	1999 VT ₂₇
1999 VU ₂₇	15.9	0.15	20000226	91.12590	83.77905	241.77216	4.06727	0.1359212	2.3034661	48	2	1998–1999	0.58	M-v	4	Williams	37832	1999 VU ₂₇
1999 VV ₂₇	17.1	0.15	19991118	343.66948	35.23233	35.29594	5.66088	0.2102327	2.3247853	34	1	33 days	0.49			Williams		1999 VV ₂₇
1999 VZ ₂₇	13.9	0.15	20000226	358.45907	134.33330	256.00204	14.49653	0.1345568	3.0856490	39	1	93 days	0.59	M-v	4	Williams	38816	1999 VZ ₂₇
1999 VD ₂₈	14.3	0.15	20000226	101.04542	88.89929	239.23353	4.06948	0.0523598	2.7204921	63	2	1997–2000	0.58	M-v	3	Williams	38816	1999 VD ₂₈
1999 VK ₂₈	14.1	0.15	20000226	20.10464	173.64633	242.43781	1.64510	0.0557252	2.7086257	62	3	1992–1999	0.52	M-v	4	Williams	38817	1999 VK ₂₈
1999 VL ₂₈	16.3	0.15	20000226	43.43115	136.07429	256.29335	0.52091	0.1997812	2.2635379	60	2	1992–1999	0.48	M-v	4	Williams	38107	1999 VL ₂₈
1999 VP ₂₈	14.9	0.15	20000226	359.70278	202.47535	248.97984	1.58328	0.1571609	2.3868595	79	3	1993–2000	0.56	M-v	2	Williams	39553	1999 VP ₂₈
1999 VC ₂₉	13.9	0.15	20000226	271.31025	123.81945	49.53785	1.67140	0.1081302	3.1571270	48	2	1996–1999	0.57	M-v	5	Williams	38107	1999 VC ₂₉
1999 VD ₂₉	14.7	0.15	20000226	54.30792	325.07337	40.52389	1.26642	0.1753385	3.0865295	60	2	1998–1999	0.66	M-v	3	Williams	38107	1999 VD ₂₉
1999 VJ ₂₉	16.5	0.15	19991118	11.74199	345.11033	53.67520	5.20207	0.1865753	2.4746469	50	1	44 days	0.57			Williams		1999 VJ ₂₉

1999 VT ₂₉	13.2	0.15	20000226	205.46677	348.93476	241.28537	16.33259	0.0739647	3.2336305	70	2	1998–2000	0.64	M-v	3	Williams	38107	1999 VT ₂₉
1999 VV ₂₉	15.3	0.15	20000226	41.58647	43.62507	351.98697	0.68914	0.1886173	2.3893176	61	1	95 days	0.49	M-v	4	Williams	38107	1999 VV ₂₉
1999 VX ₂₉	15.8	0.15	20000226	29.43424	156.58096	251.79724	2.47724	0.2093852	2.6258685	63	1	82 days	0.64	M-v	4	Williams	38107	1999 VX ₂₉
1999 VC ₃₀	14.2	0.15	20000226	314.99454	69.84778	70.99105	2.19684	0.1719975	3.0686702	59	2	1996–1999	0.61	M-v	4	Williams	38107	1999 VC ₃₀
1999 VN ₃₀	14.5	0.15	20000226	180.00629	24.52225	235.69979	3.32831	0.1813662	2.2963910	66	3	1987–1999	0.58	M-v	4	Williams	37832	1999 VN ₃₀
1999 VO ₃₀	15.4	0.15	20000226	146.39127	71.96628	219.80752	1.45748	0.1146361	2.1829274	75	3	1992–1999	0.65	M-v	4	Williams	38108	1999 VO ₃₀
1999 VP ₃₀	14.4	0.15	20000226	93.17042	94.95810	234.20533	15.45355	0.1686702	2.7271408	53	1	68 days	0.61	M-v	5	Williams	38108	1999 VP ₃₀
1999 VQ ₃₀	14.5	0.15	20000226	11.63092	195.25845	237.25734	14.31904	0.1143752	2.8518218	73	1	151 days	0.68	M-v	3	Williams	39553	1999 VQ ₃₀
1999 VT ₃₀	15.3	0.15	20000226	54.32418	129.11050	242.69542	11.09171	0.2544443	2.5759310	70	1	85 days	0.52	M-v	4	Williams	38108	1999 VT ₃₀
1999 VV ₃₀	13.8	0.15	20000226	199.57063	192.50245	54.64740	5.33258	0.1433430	2.4423280	52	1	76 days	0.38	M-v	4	Williams	38108	1999 VV ₃₀
1999 VC ₃₁	13.7	0.15	20000226	19.27517	195.07107	235.70801	3.83969	0.1243931	2.3668483	76	2	1977–2000	0.54	M-v	3	Williams	39553	1999 VC ₃₁
1999 VG ₃₁	13.6	0.15	20000226	128.77580	245.43602	63.74109	10.30574	0.0201888	3.1051342	56	1	74 days	0.65	M-v	5	Williams	38108	1999 VG ₃₁
1999 VH ₃₁	14.5	0.15	20000226	25.17287	348.43939	63.15714	10.81672	0.1818895	3.0984993	57	1	74 days	0.48	M-v	4	Williams	38817	1999 VH ₃₁
1999 VJ ₃₁	14.4	0.15	20000226	81.44066	286.48896	64.11892	10.54360	0.1532715	2.3933000	88	2	1998–2000	0.57	M-v	4	Williams	38817	1999 VJ ₃₁
1999 VW ₃₁	15.6	0.15	20000226	104.31775	275.95040	44.75207	3.14458	0.1592122	2.2628953	52	2	1998–1999	0.62	M-v	4	Williams	37832	1999 VW ₃₁
1999 VG ₃₂	13.7	0.15	20000226	4.22119	200.26340	233.60953	10.10565	0.1332114	3.1468883	67	1	114 days	0.49	M-v	4	Williams	38817	1999 VG ₃₂
1999 VM ₃₂	15.1	0.15	20000226	292.32306	303.01670	220.98638	1.73000	0.1233818	2.4462757	60	3	1997–1999	0.50	M-v	4	Williams	38108	1999 VM ₃₂
1999 VR ₃₂	14.9	0.15	20000226	231.06357	343.75381	236.14530	6.50982	0.1099715	2.2545347	73	3	1991–1999	0.62	M-v	3	Williams	38108	1999 VR ₃₂
1999 VE ₃₃	14.1	0.15	20000226	34.07992	0.30321	41.32519	3.92171	0.1291038	2.9245533	59	1	100 days	0.55	M-v	4	Williams	38817	1999 VE ₃₃
1999 VK ₃₃	15.3	0.15	20000226	349.36098	47.66803	63.74568	1.45536	0.2296919	2.6406283	70	2	1960–2000	0.57	M-v	4	Williams	38572	1999 VK ₃₃
1999 VM ₃₃	16.6	0.15	20000226	35.44882	176.45635	227.96837	1.40824	0.2044236	2.4420319	46	2	1995–2000	0.52	M-v	4	Williams	37833	1999 VM ₃₃
1999 VA ₃₄	15.9	0.15	19991118	317.92825	250.97443	220.57716	2.02975	0.1250251	2.3952045	46	1	40 days	0.51			Williams		1999 VA ₃₄
1999 VD ₃₄	14.4	0.15	20000226	45.90973	320.22664	61.30392	9.05495	0.2406177	2.7920406	58	1	112 days	0.42	M-v	4	Williams	38817	1999 VD ₃₄
1999 VE ₃₄	15.3	0.15	20000226	97.97602	98.43576	236.45361	4.78183	0.1440090	2.3536102	44	1	110 days	0.60	M-v	5	Williams	38817	1999 VE ₃₄
1999 VF ₃₄	14.1	0.15	20000226	312.59396	93.82987	55.83483	5.90914	0.1470333	2.6926119	60	1	74 days	0.58	M-v	4	Williams	38817	1999 VF ₃₄
1999 VM ₃₄	13.6	0.15	20000226	343.46224	228.34063	248.30311	12.55463	0.1275238	2.5869038	82	2	1998–2000	0.53	M-v	3	Williams	39553	1999 VM ₃₄
1999 VO ₃₄	14.1	0.15	20000226	52.63364	136.80598	247.87093	11.12083	0.1620884	2.6793743	58	1	144 days	0.45	M-v	4	Williams	39553	1999 VO ₃₄
1999 VP ₃₄	13.4	0.15	20000226	52.55852	139.21699	248.97484	11.80045	0.1143674	2.7400265	59	1	144 days	0.57	M-v	4	Williams	39553	1999 VP ₃₄
1999 VT ₃₄	16.2	0.15	20000226	49.75457	144.00417	248.51517	4.76501	0.1876195	2.2836678	45	1	86 days	0.50	M-v	4	Williams	38109	1999 VT ₃₄
1999 VV ₃₄	15.6	0.15	20000226	25.78960	178.15894	241.53409	13.73379	0.2311853	2.6565170	41	1	86 days	0.42	M-v	3	Williams	38109	1999 VV ₃₄
1999 VE ₃₅	14.0	0.15	20000226	135.88627	237.15457	64.12446	4.39198	0.1202716	2.5247173	67	3	1995–2000	0.60	M-v	3	Williams	38817	1999 VE ₃₅
1999 VO ₃₅	13.9	0.15	20000226	323.42436	64.71002	68.62892	10.40937	0.1127527	2.9365584	59	2	1994–2000	0.71	M-v	4	Williams	38109	1999 VO ₃₅
1999 VP ₃₅	14.5	0.15	20000226	92.55718	114.77582	233.75874	5.91150	0.0835687	2.4563476	49	1	80 days	0.45	M-v	4	Williams	38110	1999 VP ₃₅
1999 VR ₃₅	15.3	0.15	20000226	33.06808	340.51223	63.75874	7.28163	0.2537097	2.7622637	55	1	84 days	0.51	M-v	4	Williams	38110	1999 VR ₃₅
1999 VS ₃₅	13.7	0.15	20000226	136.72854	234.61247	67.54416	15.49906	0.1016687	2.5999690	60	2	1978–2000	0.54	M-v	4	Williams	38110	1999 VS ₃₅
1999 VB ₃₆	14.7	0.15	20000226	31.94680	148.85267	268.24431	1.37436	0.1741801	2.4364883	65	1	114 days	0.50	M-v	3	Williams	38817	1999 VB ₃₆
1999 VD ₃₆	13.8	0.15	20000226	0.20210	208.12049	247.54375	13.29755	0.0978127	2.5952806	86	1	152 days	0.41	M-v	3	Williams	39553	1999 VD ₃₆
1999 VG ₃₆	14.6	0.15	20000226	25.35175	178.89593	248.17556	6.07111	0.1633452	2.4463567	72	2	1979–2000	0.48	M-v	3	Williams	39553	1999 VG ₃₆
1999 VJ ₃₆	15.7	0.15	20000226	26.87070	177.39559	242.00794	12.20654	0.2688245	2.6449362	36	1	84 days	0.50	M-v	4	Williams	38110	1999 VJ ₃₆
1999 VN ₃₆	14.1	0.15	20000226	351.82310	64.40299	59.63752	7.64086	0.3024005	2.5685565	79	1	122 days	0.44	M-v	3	Williams	38817	1999 VN ₃₆
1999 VO ₃₆	13.1	0.15	20000226	344.82988	51.76808	64.87332	13.61752	0.1453795	2.6907369	75	1	122 days	0.49	M-v	4	Williams	38817	1999 VO ₃₆
1999 VQ ₃₆	15.4	0.15	20000226	89.18834	283.97277	61.86951	7.39169	0.1777639	2.3077500	34	1	81 days	0.77	M-v	5	Williams	38110	1999 VQ ₃₆
1999 VR ₃₆	14.1	0.15	20000226	217.59536	167.72008	72.07307	6.98650	0.1687154	2.3414199	48	1	71 days	0.52	M-v	5	Williams	38110	1999 VR ₃₆
1999 VW ₃₆	14.6	0.15	20000226	328.91276	72.46830	64.27565	8.75100	0.1218411	2.4755644	62	1	110 days	0.51	M-v	4	Williams	38817	1999 VW ₃₆
1999 VX ₃₆	14.7	0.15	20000226	84.35566	107.46140	240.33470	5.86094	0.2098101	2.2909263	51	3	1992–2000	0.63	M-v	3	Williams	38110	1999 VX ₃₆
1999 VY ₃₆	13.7	0.15	20000226	102.29226	72.79956	245.92131	9.95359	0.2605714	2.7524678	54	1	76 days	0.47	M-v	4	Williams	38110	1999 VY ₃₆
1999 VA ₃₇	13.4	0.15	20000226	280.36327	115.58374	68.07849	17.69693	0.1058452	2.5803776	86	2	1997–2000	0.57	M-v	3	Williams	38817	1999 VA ₃₇
1999 VC ₃₇	15.6	0.15	20000226	43.04006	347.87988	60.57077	7.23207	0.1216950	2.2787811	43	1	81 days	0.54	M-v	4	Williams	38110	1999 VC ₃₇
1999 VE ₃₇	15.7	0.15	20000226	42.31027	349.50192	55.48868	3.90043	0.1897919	2.3397352	43	1	84 days	0.39	M-v	4	Williams	38110	1999 VE ₃₇
1999 VG ₃₇	15.8	0.15	20000226	39.54993	160.18258	249.39427	6.27391	0.2122637	2.2719125	44	1	112 days	0.57	M-v	4	Williams	38817	1999 VG ₃₇
1999 VM ₃₇	13.7	0.15	20000226	113.84603	87.84646	241.34875	8.83182	0.1064920	2.4844243	48	1	145 days	0.40	M-v	4	Williams	39553	1999 VM ₃₇
1999 VO ₃₇	14.4	0.15	20000226	29.51839	353.91725	67.74939	15.43064	0.0597045	2.6066754	47	1	112 days	0.63	M-v	4	Williams	38817	1999 VO ₃₇
1999 VQ ₃₇	15.5	0.15	20000226	45.54502	325.84208	69.18733	8.61000	0.2535242	2.3768706	50	1	124 days	0.43	M-v	4	Williams	38817	1999 VQ ₃₇

1999 VV ₃₇	14.7	0.15	20000226	356.11231	44.83810	68.79009	13.96647	0.2213584	2.5711272	67	1	111 days	0.55	M-v	3	Williams	38817	1999 VV ₃₇
1999 VC ₃₈	16.2	0.15	20000226	48.56344	132.79929	256.40045	1.17431	0.2086119	2.3633722	49	1	63 days	0.48	M-v	5	Williams	38110	1999 VC ₃₈
1999 VO ₃₈	15.4	0.15	19991118	16.99200	327.98856	71.05390	5.12828	0.1186222	2.5538318	55	1	44 days	0.60			Williams		1999 VO ₃₈
1999 VR ₃₈	15.4	0.15	20000226	110.07304	169.92677	148.07592	1.02421	0.1938102	2.2388570	56	2	1998–1999	0.60	M-v	4	Williams	38111	1999 VR ₃₈
1999 VZ ₃₈	14.7	0.15	20000226	57.19843	139.06381	239.62696	2.41319	0.1690898	2.3317623	66	1	134 days	0.53	M-v	4	Williams	39553	1999 VZ ₃₈
1999 VW ₃₉	14.9	0.15	20000226	47.34274	318.58560	32.92386	12.20403	0.2015554	2.6836945	82	2	1993–1999	0.47	M-v	3	Williams	38818	1999 VW ₃₉
1999 VH ₄₀	14.4	0.15	20000226	310.54880	107.69363	17.08208	2.67058	0.0273093	2.6138164	74	3	1990–1999	0.47	M-v	3	Williams	38111	1999 VH ₄₀
1999 VJ ₄₀	15.1	0.15	20000226	131.64203	41.06227	247.19603	3.66062	0.1556788	2.3588155	81	2	1998–1999	0.65	M-v	4	Williams	38818	1999 VJ ₄₀
1999 VL ₄₀	14.4	0.15	20000226	6.57414	246.70562	265.50801	19.91008	0.3077624	2.2834015	75	1	178 days	0.55	M-v	3	Williams	39553	1999 VL ₄₀
1999 VM ₄₀	14.5	0.15	20000226	43.43767	354.17776	51.56002	15.37670	0.4848553	2.3098653	295	2	1974–2000	0.54	M-v	2	Williams	39318	1999 VM ₄₀
1999 VO ₄₀	16.3	0.15	20000226	113.29156	275.60952	28.02086	5.84659	0.1583578	2.2114608	38	1	66 days	0.52	M-v	5	Williams	38818	1999 VO ₄₀
1999 VH ₄₃	14.6	0.15	19991029	69.21510	287.65555	1.55563	2.40301	0.2027693	2.8991987	14	1	8 days	0.70			Williams		1999 VH ₄₃
1999 VJ ₄₃	15.5	0.15	20000226	310.55304	98.34868	21.40350	5.95919	0.1100370	2.2815425	44	1	66 days	0.64	M-v	5	Williams	38112	1999 VJ ₄₃
1999 VM ₄₃	15.3	0.15	19991009	23.37654	135.59995	218.14018	5.29273	0.0383302	2.7115574	34	1	44 days	0.60			Williams		1999 VM ₄₃
1999 VP ₄₃	16.1	0.15	19991009	356.50147	3.88727	19.37143	3.57434	0.0227449	2.2536792	31	1	43 days	0.54			Williams		1999 VP ₄₃
1999 VQ ₄₃	16.3	0.15	19991009	19.06017	356.61573	349.69134	0.50345	0.2574846	2.6670474	28	1	39 days	0.59			Williams		1999 VQ ₄₃
1999 VR ₄₃	15.3	0.15	20000226	346.43680	66.32086	11.41123	3.22830	0.1291393	2.6452167	44	2	1997–1999	0.60	M-v	4	Williams	38112	1999 VR ₄₃
1999 VS ₄₃	15.7	0.15	19991009	12.77216	326.95576	35.95577	2.92899	0.1286275	2.6062960	28	1	30 days	0.56			Williams		1999 VS ₄₃
1999 VU ₄₃	15.1	0.15	20000226	37.52654	311.50437	45.51259	1.35638	0.2702045	3.1250524	59	1	67 days	0.49	M-v	4	Williams	38112	1999 VU ₄₃
1999 VV ₄₃	14.2	0.15	20000226	61.14922	287.28608	29.55232	13.63804	0.2854399	3.1819790	69	1	67 days	0.56	M-v	5	Williams	39553	1999 VV ₄₃
1999 VW ₄₃	16.7	0.15	20000226	38.01218	347.06762	35.52647	2.92397	0.2579871	2.2682282	62	1	65 days	0.56	M-v	4	Williams	38112	1999 VW ₄₃
1999 VX ₄₃	14.7	0.15	20000226	341.26579	63.61054	34.09024	6.35413	0.1669895	2.2608804	78	1	96 days	0.50	M-v	4	Williams	38818	1999 VX ₄₃
1999 VB ₄₄	14.4	0.15	20000226	61.64261	118.97805	227.41289	5.71374	0.0646522	3.1023369	77	2	1998–1999	0.64	M-v	3	Williams	38573	1999 VB ₄₄
1999 VF ₄₄	15.4	0.15	19991009	22.28794	136.20276	216.00160	9.38469	0.2271937	3.1428464	39	1	39 days	0.55			Williams		1999 VF ₄₄
1999 VG ₄₄	15.6	0.15	19991029	32.90998	122.02670	228.05503	9.96122	0.1172822	2.7015070	28	1	18 days	0.63			Williams		1999 VG ₄₄
1999 VH ₄₄	15.8	0.15	20000226	40.77246	357.65839	9.10982	4.48548	0.2937962	2.6665611	83	1	71 days	0.47	M-v	4	Williams	38818	1999 VH ₄₄
1999 VK ₄₄	15.3	0.15	19991009	347.58357	49.81666	353.29341	3.57326	0.1342540	2.6172195	28	1	45 days	0.33			Williams		1999 VK ₄₄
1999 VM ₄₄	15.3	0.15	19991029	65.71525	71.06856	252.44384	4.43322	0.0508923	2.7181600	33	1	18 days	0.92			Williams		1999 VM ₄₄
1999 VN ₄₄	13.8	0.15	20000226	149.36989	239.18136	0.40093	27.98410	0.1549917	2.6194717	47	2	1985–1999	0.59	M-v	4	Williams	38574	1999 VN ₄₄
1999 VS ₄₄	16.1	0.15	19991009	355.05580	85.39488	302.25148	4.47837	0.2333853	2.6048244	24	1	39 days	0.63			Williams		1999 VS ₄₄
1999 VV ₄₄	15.1	0.15	20000226	86.66687	322.98328	345.70666	7.37005	0.2272817	2.3842036	62	2	1998–1999	0.57	M-v	4	Williams	38818	1999 VV ₄₄
1999 VX ₄₄	15.1	0.15	20000226	54.59516	105.27424	232.05631	12.49656	0.2976728	2.6824191	46	1	65 days	0.44	M-v	4	Williams	38113	1999 VX ₄₄
1999 VY ₄₄	16.3	0.15	19991009	8.04812	131.93073	236.53384	9.74075	0.2005931	2.5680066	23	1	39 days	0.49			Williams		1999 VY ₄₄
1999 VB ₄₅	16.2	0.15	19991009	31.92906	73.56073	256.91412	6.38905	0.2412844	2.4294202	19	1	39 days	0.64			Williams		1999 VB ₄₅
1999 VD ₄₅	14.8	0.15	20000226	52.79508	110.78519	248.54915	5.08932	0.1443959	2.5531118	47	1	95 days	0.58	M-v	4	Williams	38113	1999 VD ₄₅
1999 VF ₄₅	16.1	0.15	20000226	26.44019	51.04836	352.56788	4.28402	0.1120418	2.2493429	28	1	65 days	0.63	M-v	4	Williams		1999 VF ₄₅
1999 VJ ₄₅	15.1	0.15	20000226	50.61423	336.51198	20.21238	9.03459	0.1797627	2.7984043	39	1	80 days	0.55	M-v	4	Williams		1999 VJ ₄₅
1999 VN ₄₅	14.7	0.15	19991029	288.80594	111.74102	23.74180	17.30734	0.2630957	2.7469581	21	1	15 days	0.39			Williams		1999 VN ₄₅
1999 VP ₄₅	14.7	0.15	19991029	55.81018	349.31445	341.88108	3.89338	0.0708982	2.7872198	24	1	18 days	0.51			Williams		1999 VP ₄₅
1999 VR ₄₅	15.2	0.15	20000226	7.14826	62.62857	5.89388	4.50807	0.2566438	2.6898674	68	1	97 days	0.52	M-v	4	Williams	38113	1999 VR ₄₅
1999 VS ₄₅	13.6	0.15	20000226	181.68865	238.66666	352.06105	9.42860	0.1404614	2.6972863	43	2	1994–2000	0.68	M-v	4	Williams	38574	1999 VS ₄₅
1999 VT ₄₅	14.7	0.15	20000226	96.68074	4.65466	305.95287	5.63359	0.1388423	2.4568506	37	1	95 days	0.51	M-v	5	Williams	38113	1999 VT ₄₅
1999 VW ₄₆	15.4	0.15	19991118	233.75652	324.34420	218.94880	23.61244	0.1942188	2.3737386	35	1	39 days	0.54			Williams		1999 VW ₄₆
1999 VE ₄₇	14.2	0.15	20000226	43.02655	331.12665	51.06626	14.50041	0.1638784	2.5461746	80	1	140 days	0.40	M-v	3	Williams	38818	1999 VE ₄₇
1999 VF ₄₇	14.3	0.15	20000226	49.40986	319.34221	56.36805	14.82748	0.2043499	2.5281521	88	3	1991–2000	0.50	M-v	3	Williams	38818	1999 VF ₄₇
1999 VN ₄₇	13.6	0.15	20000226	82.71005	41.03120	286.98275	11.86133	0.1854055	2.6244461	36	2	1990–2000	0.45	M-v	4	Williams	39319	1999 VN ₄₇
1999 VQ ₄₇	14.2	0.15	20000226	90.74995	332.46422	351.36162	8.93196	0.1217935	2.6193138	36	1	92 days	0.43	M-v	4	Williams		1999 VQ ₄₇
1999 VR ₄₇	15.0	0.15	19991029	12.71979	85.16195	290.85821	8.76787	0.1732303	2.9191374	19	1	7 days	0.40			Williams		1999 VR ₄₇
1999 VS ₄₇	15.3	0.15	20000226	50.13869	50.66794	312.64957	7.94396	0.1808465	2.5715061	49	1	92 days	0.54	M-v	4	Williams		1999 VS ₄₇
1999 VT ₄₇	14.7	0.15	20000226	18.14235	121.69433	278.86810	10.47950	0.2456784	2.5383988	42	1	137 days	0.66	M-v	4	Williams		1999 VT ₄₇
1999 VU ₄₇	13.7	0.15	20000226	179.46637	324.34978	259.78897	13.75772	0.0592609	2.5620766	70	3	1977–2000	0.69	M-v	3	Williams	37833	1999 VU ₄₇
1999 VV ₄₇	13.7	0.15	20000226	112.55871	1.73206	288.99857	8.26372	0.0501688	3.0776753	37	2	1998–1999	0.57	M-v	4	Williams	38574	1999 VV ₄₇
1999 VX ₄₇	14.8	0.15	19991029	316.49517	174.21339	266.60475	8.10422	0.0942674	2.8213733	21	1	8 days	0.46			Williams		1999 VX ₄₇

1999 VE ₄₈	14.0	0.15	20000226	50.15965	41.53359	317.47635	8.23121	0.1777111	2.7845571	58	1	121 days	0.41	M-v	3	Williams	38818	1999 VE ₄₈
1999 VH ₄₈	14.6	0.15	20000226	31.42479	129.09653	263.57553	4.55502	0.1821510	2.5613145	64	2	1993–2000	0.49	M-v	3	Williams	38818	1999 VH ₄₈
1999 VN ₄₈	15.1	0.15	20000226	55.68488	116.07143	236.85959	9.82534	0.2196564	2.6964112	62	1	125 days	0.46	M-v	4	Williams	39553	1999 VN ₄₈
1999 VO ₄₈	14.4	0.15	19991029	340.24492	42.40720	21.40764	11.08700	0.1160576	2.9897584	17	1	6 days	0.34		E	Williams		1999 VO ₄₈
1999 VP ₄₈	17.2	0.15	19991029	30.06316	55.01112	294.13106	3.72423	0.2446111	2.5698059	16	1	10 days	0.48			Williams		1999 VP ₄₈
1999 VQ ₄₈	13.7	0.15	20000226	146.99379	27.70527	240.42246	11.99517	0.1147677	2.6620090	55	1	96 days	0.55	M-v	4	Williams	38113	1999 VQ ₄₈
1999 VT ₄₈	13.9	0.15	20000226	343.70064	92.76256	6.16956	10.12627	0.1502307	2.8913597	50	1	111 days	0.54	M-v	4	Williams	38818	1999 VT ₄₈
1999 VU ₄₈	14.2	0.15	20000226	30.30706	32.44570	17.95643	7.24533	0.1029923	2.3412985	66	1	120 days	0.46	M-v	3	Williams	38818	1999 VU ₄₈
1999 VV ₄₈	15.4	0.15	20000226	74.88592	85.57936	280.44935	4.65589	0.0250283	2.2350760	56	2	1996–2000	0.55	M-v	4	Williams	37833	1999 VV ₄₈
1999 VX ₄₈	13.0	0.15	20000226	278.69211	252.02193	268.28576	10.25376	0.1348869	2.8151184	90	3	1978–2000	0.60	M-v	3	Williams	38113	1999 VX ₄₈
1999 VY ₄₈	14.1	0.15	20000226	93.27397	63.40646	251.83582	12.48894	0.1771433	2.5487143	63	2	1998–2000	0.63	M-v	3	Williams	38113	1999 VY ₄₈
1999 VB ₄₉	15.8	0.15	20000226	87.06764	323.24264	14.12441	6.90309	0.1280014	2.2624445	35	2	1998–1999	0.62	M-v	4	Williams	38113	1999 VB ₄₉
1999 VC ₄₉	14.1	0.15	20000226	22.51556	134.89155	272.38340	5.75344	0.0803343	2.7585169	63	1	93 days	0.44	M-v	3	Williams	38113	1999 VC ₄₉
1999 VE ₄₉	14.0	0.15	20000226	140.80101	19.74018	259.28772	4.81693	0.1670497	2.2947604	108	2	1998–2000	0.54	M-v	3	Williams	38114	1999 VE ₄₉
1999 VH ₄₉	14.8	0.15	20000226	144.25112	261.91776	15.39565	6.24606	0.1284247	2.4770608	35	2	1995–1999	0.55	M-v	4	Williams	37834	1999 VH ₄₉
1999 VK ₄₉	14.0	0.15	20000226	173.83061	230.81928	25.13742	7.19662	0.1377817	2.2482098	110	2	1998–2000	0.56	M-v	3	Williams	38818	1999 VK ₄₉
1999 VL ₄₉	14.6	0.15	20000226	170.73602	272.16898	349.93297	2.99034	0.0565827	2.3214323	74	1	95 days	0.50	M-v	4	Williams	38114	1999 VL ₄₉
1999 VM ₄₉	17.0	0.15	20000226	41.44269	146.45019	238.70688	5.85097	0.2421428	2.3788811	39	2	1997–1999	0.50	M-v	3	Williams	38818	1999 VM ₄₉
1999 VR ₄₉	14.3	0.15	20000226	58.45570	98.70424	273.37798	5.23048	0.0477543	2.7205709	47	1	113 days	0.56	M-v	4	Williams	38818	1999 VR ₄₉
1999 VS ₄₉	14.9	0.15	20000226	36.09439	113.15556	281.49732	4.78616	0.1056689	2.7450293	43	2	1995–1999	0.56	M-v	4	Williams	38114	1999 VS ₄₉
1999 VU ₄₉	16.6	0.15	19991118	28.95760	323.80929	40.35847	6.84350	0.2536738	2.5378718	31	1	37 days	0.40			Williams		1999 VU ₄₉
1999 VX ₄₉	15.5	0.15	20000226	18.64448	140.79735	278.55665	1.10575	0.1456212	2.5882011	63	2	1978–2000	0.45	M-v	4	Williams	38114	1999 VX ₄₉
1999 VB ₅₀	14.3	0.15	20000226	16.05158	33.46377	34.13902	7.39808	0.0892674	2.3427322	75	1	117 days	0.48	M-v	3	Williams	38818	1999 VB ₅₀
1999 VC ₅₀	16.9	0.15	19991118	48.81868	327.27886	19.44654	3.67319	0.1833669	2.1771830	37	1	35 days	0.68			Williams		1999 VC ₅₀
1999 VD ₅₀	14.8	0.15	20000226	140.91830	301.55116	350.62813	2.52149	0.1090166	2.1900612	70	2	1998–1999	0.50	M-v	4	Williams	38114	1999 VD ₅₀
1999 VE ₅₀	14.8	0.15	20000226	334.96789	173.48842	306.42384	2.25990	0.0991579	2.1616220	72	2	1992–2000	0.47	M-v	3	Williams	39553	1999 VE ₅₀
1999 VF ₅₀	15.2	0.15	20000226	75.24009	72.50312	278.06727	3.05172	0.1769287	2.2793842	56	1	86 days	0.53	M-v	4	Williams	38114	1999 VF ₅₀
1999 VG ₅₀	14.9	0.15	20000226	19.30310	166.30696	245.10748	13.65503	0.2032393	3.0807476	59	1	61 days	0.57	M-v	4	Williams	38114	1999 VG ₅₀
1999 VH ₅₀	13.0	0.15	20000226	348.83821	52.14690	38.84498	10.49129	0.0610842	2.7693687	62	1	112 days	0.45	M-v	4	Williams	38818	1999 VH ₅₀
1999 VJ ₅₀	15.7	0.15	19991118	8.68220	15.48946	29.98183	4.56517	0.1255658	2.7942532	39	1	40 days	0.65			Williams		1999 VJ ₅₀
1999 VN ₅₀	14.7	0.15	20000226	300.22949	114.87637	39.87075	6.20935	0.1229134	2.5496824	64	1	111 days	0.53	M-v	4	Williams	38818	1999 VN ₅₀
1999 VO ₅₀	13.1	0.15	20000226	358.28758	71.09416	9.12896	1.96364	0.0347592	2.9081177	119	2	1998–2000	0.55	M-v	3	Williams	39553	1999 VO ₅₀
1999 VR ₅₀	15.1	0.15	20000226	319.27279	217.37734	280.45919	2.10536	0.1100495	2.3331926	55	2	1976–1999	0.52	M-v	4	Williams	38114	1999 VR ₅₀
1999 VS ₅₀	14.8	0.15	20000226	351.37327	84.98023	17.26569	2.78036	0.1312527	2.4102008	68	2	1997–1999	0.48	M-v	4	Williams	38114	1999 VS ₅₀
1999 VT ₅₀	16.4	0.15	20000226	53.27535	105.60027	254.71834	3.45943	0.3311082	2.5673137	40	1	76 days	0.66	M-v	5	Williams	38114	1999 VT ₅₀
1999 VU ₅₀	13.8	0.15	20000226	260.83502	307.58811	243.27501	10.96376	0.1056021	2.5558477	94	1	86 days	0.60	M-v	4	Williams	38114	1999 VU ₅₀
1999 VV ₅₀	14.8	0.15	20000226	91.57335	69.76342	266.98980	2.65564	0.1719845	2.2266270	71	2	1998–2000	0.59	M-v	4	Williams	38818	1999 VV ₅₀
1999 VW ₅₀	14.1	0.15	20000226	343.94491	54.60667	45.43040	8.60173	0.0516475	2.7357364	59	2	1997–2000	0.55	M-v	4	Williams	38818	1999 VW ₅₀
1999 VX ₅₀	14.2	0.15	20000226	18.53946	272.45119	145.59961	1.13981	0.2070204	3.1948271	60	2	1993–1999	0.59	M-v	4	Williams	37834	1999 VX ₅₀
1999 VH ₅₁	17.1	0.15	19991029	18.57296	126.86509	245.70096	11.77487	0.2758687	2.5524301	21	1	13 days	0.64			Williams		1999 VH ₅₁
1999 VM ₅₁	15.8	0.15	20000226	7.94507	41.71876	28.20860	9.16523	0.1819133	2.7085911	52	1	68 days	0.59	M-v	4	Williams	38114	1999 VM ₅₁
1999 VP ₅₁	15.9	0.15	20000226	55.10352	357.14174	15.95088	5.73196	0.1716820	2.3802654	62	2	1997–1999	0.52	M-v	4	Williams	38114	1999 VP ₅₁
1999 VR ₅₁	16.8	0.15	19991118	29.61812	0.36097	8.06501	4.96758	0.2047148	2.3006699	28	1	40 days	0.48			Williams		1999 VR ₅₁
1999 VK ₅₂	13.9	0.15	20000226	53.35164	331.92478	48.89063	12.02291	0.1178394	3.0452640	51	1	117 days	0.57	M-v	4	Williams	38818	1999 VK ₅₂
1999 VO ₅₂	14.1	0.15	20000226	68.30859	294.22825	72.70175	11.72753	0.1957702	2.5670049	54	1	146 days	0.58	M-v	4	Williams	39553	1999 VO ₅₂
1999 VQ ₅₂	15.3	0.15	20000226	33.47476	340.10528	73.79771	7.03657	0.2234700	2.5735942	67	1	110 days	0.58	M-v	4	Williams	38819	1999 VQ ₅₂
1999 VR ₅₂	16.1	0.15	20000226	12.71073	217.16969	238.62376	19.19781	0.0909573	1.9593349	45	1	116 days	0.53	M-v	4	Williams	38819	1999 VR ₅₂
1999 VU ₅₂	15.6	0.15	20000226	25.67980	186.01156	240.65542	9.71934	0.3493668	2.6859464	42	1	81 days	0.44	M-v	3	Williams	38819	1999 VU ₅₂
1999 VV ₅₂	14.9	0.15	20000226	62.88264	159.93029	233.72697	4.18552	0.1360735	2.1561164	45	1	86 days	0.49	M-v	4	Williams	38115	1999 VV ₅₂
1999 VW ₅₂	15.7	0.15	20000226	47.15635	330.23231	78.23913	6.21245	0.1779299	2.2778135	38	1	80 days	0.50	M-v	4	Williams	38115	1999 VW ₅₂
1999 VX ₅₂	14.4	0.15	20000226	338.93471	255.64250	246.28297	5.25084	0.1091924	2.2793658	41	1	145 days	0.49	M-v	4	Williams	39553	1999 VX ₅₂
1999 VY ₅₂	13.2	0.15	20000226	20.83679	185.54042	253.76074	13.47623	0.3753698	2.7757306	60	2	1976–2000	0.30	M-v	2	Williams	39553	1999 VY ₅₂
1999 VZ ₅₂	11.5	0.15	20000226	96.80389	275.22649	84.27284	22.75009	0.0754701	3.1865644	58	1	110 days	0.47	M-v	4	Williams	38819	1999 VZ ₅₂

1999 VA ₅₃	14.8	0.15	20000226	38.25757	206.77839	217.72981	1.48672	0.1835699	2.3653691	46	3	1991–2000	0.62	M-v	4	Williams	38115	1999 VA ₅₃
1999 VB ₅₃	14.2	0.15	20000226	335.84498	253.39109	253.17548	22.26040	0.0484286	1.9371036	76	2	1998–2000	0.56	M-v	3	Williams	38819	1999 VB ₅₃
1999 VF ₅₃	14.5	0.15	20000226	38.42931	351.96020	63.80719	5.43241	0.2651533	2.5908483	73	4	1978–2000	0.55	M-v	2	Williams	38819	1999 VF ₅₃
1999 VJ ₅₃	15.7	0.15	20000226	13.33642	225.19422	227.77351	6.74275	0.2120677	2.4724146	33	1	65 days	0.56	M-v	4	Williams	38819	1999 VJ ₅₃
1999 VL ₅₃	14.3	0.15	20000226	86.35076	327.21020	53.00203	2.97350	0.0532285	2.3317743	42	4	1989–2000	0.52	M-v	2	Williams	39319	1999 VL ₅₃
1999 VN ₅₃	14.3	0.15	20000226	157.96871	231.15631	28.51203	5.06204	0.0695278	2.5435033	55	2	1997–1999	0.58	M-v	4	Williams	38819	1999 VN ₅₃
1999 VO ₅₃	14.7	0.15	20000226	74.34705	310.83163	25.80945	2.16787	0.0784643	2.8876475	38	2	1997–1999	0.41	M-v	4	Williams	38574	1999 VO ₅₃
1999 VR ₅₃	15.8	0.15	20000226	38.95938	351.33748	29.92623	1.21105	0.1236202	2.5752769	30	2	1995–1999	0.56	M-v	5	Williams	38574	1999 VR ₅₃
1999 VS ₅₃	12.9	0.15	20000226	184.35194	11.33114	216.72584	16.94003	0.1081321	3.1755907	53	1	95 days	0.59	M-v	4	Williams	38115	1999 VS ₅₃
1999 VW ₅₃	14.8	0.15	20000226	250.00961	154.83503	31.17703	5.10862	0.1172998	2.3289191	56	1	67 days	0.63	M-v	5	Williams	38819	1999 VW ₅₃
1999 VG ₅₄	16.8	0.15	20000226	4.38164	46.79631	30.42719	1.12393	0.1793144	2.3092060	40	2	1997–1999	0.53	M-v	5	Williams	38819	1999 VG ₅₄
1999 VH ₅₄	14.0	0.15	20000226	172.13956	170.97940	72.70259	0.51192	0.0305786	3.0492739	52	3	1996–1999	0.54	M-v	4	Williams	38574	1999 VH ₅₄
1999 VM ₅₄	14.9	0.15	20000226	15.08808	5.75611	39.42427	0.68374	0.1880818	3.1186468	53	1	62 days	0.44	M-v	4	Williams	38819	1999 VM ₅₄
1999 VN ₅₄	15.0	0.15	20000226	148.04660	230.07600	39.56041	7.51825	0.1332425	2.2545371	75	2	1998–1999	0.59	M-v	3	Williams	38819	1999 VN ₅₄
1999 VT ₅₄	14.6	0.15	20000226	355.89407	214.11289	214.73092	9.60904	0.0384633	2.7280807	52	2	1997–1999	0.57	M-v	4	Williams	38575	1999 VT ₅₄
1999 VV ₅₄	16.5	0.15	20000226	34.91502	351.37767	42.05662	2.95215	0.2127501	2.3304350	58	1	63 days	0.52	M-v	4	Williams	38819	1999 VV ₅₄
1999 VW ₅₄	15.7	0.15	20000226	126.12192	248.04119	40.19458	4.21751	0.1232099	2.4091638	46	2	1998–1999	0.69	M-v	4	Williams	37835	1999 VW ₅₄
1999 VX ₅₄	14.7	0.15	20000226	226.96804	64.24842	141.69857	0.77272	0.1512249	2.3430281	43	3	1995–1999	0.64	M-v	5	Williams	38819	1999 VX ₅₄
1999 VY ₅₄	15.9	0.15	20000226	113.54848	118.18239	175.36549	0.92736	0.1874803	2.3799324	42	2	1998–1999	0.81	M-v	4	Williams	38819	1999 VY ₅₄
1999 VE ₅₅	14.5	0.15	20000226	60.14397	302.99916	40.20065	1.23943	0.1779013	3.0840950	53	1	64 days	0.59	M-v	4	Williams	38819	1999 VE ₅₅
1999 VK ₅₅	16.5	0.15	19991029	323.86228	185.39082	260.24814	0.60566	0.1547937	2.4086859	33	1	18 days	0.62			Williams		1999 VK ₅₅
1999 VM ₅₅	15.2	0.15	20000226	343.60608	237.07053	227.52956	4.37702	0.1823638	2.3821856	76	1	89 days	0.48	M-v	4	Williams	38116	1999 VM ₅₅
1999 VO ₅₅	16.7	0.15	19991029	33.75399	126.04245	221.81694	2.06360	0.1937421	2.2256869	29	1	18 days	0.52			Williams		1999 VO ₅₅
1999 VS ₅₅	15.7	0.15	20000226	29.99243	175.25007	215.85888	1.97659	0.1918170	2.7677919	58	3	1994–1999	0.63	M-v	3	Williams	37835	1999 VS ₅₅
1999 VU ₅₅	14.3	0.15	20000226	34.71587	187.92993	197.06572	1.65106	0.0598191	2.8791182	52	2	1996–1999	0.52	M-v	4	Williams	38819	1999 VU ₅₅
1999 VX ₅₅	14.4	0.15	20000226	195.85145	12.92538	213.29750	4.08016	0.0679939	2.7307919	49	3	1997–1999	0.70	M-v	3	Williams	37836	1999 VX ₅₅
1999 VB ₅₆	15.4	0.15	20000226	44.64897	159.10826	216.76961	9.04848	0.1393166	2.5736426	43	1	62 days	0.48	M-v	4	Williams	38116	1999 VB ₅₆
1999 VE ₅₆	14.5	0.15	19991029	258.10783	110.63687	45.43685	9.16067	0.1586851	2.8063943	41	1	48 days	0.72			Williams		1999 VE ₅₆
1999 VF ₅₆	15.6	0.15	20000226	80.63175	266.20184	61.74001	2.12482	0.2067525	2.3795376	47	1	64 days	0.48	M-v	4	Williams	38116	1999 VF ₅₆
1999 VH ₅₆	15.2	0.15	20000226	133.73649	237.69936	47.65113	7.68870	0.0965805	2.3877275	48	1	67 days	0.59	M-v	5	Williams	38819	1999 VH ₅₆
1999 VJ ₅₆	15.9	0.15	19991029	334.81581	223.03094	208.80457	5.36071	0.1581221	2.3779396	32	1	45 days	0.55			Williams		1999 VJ ₅₆
1999 VL ₅₆	15.9	0.15	20000226	51.06346	315.83190	50.47424	3.30873	0.2276318	2.4072732	58	1	64 days	0.47	M-v	4	Williams	38819	1999 VL ₅₆
1999 VN ₅₆	14.6	0.15	20000226	36.17871	345.53706	47.32701	7.19617	0.0982758	2.3774319	73	1	91 days	0.50	M-v	3	Williams	38819	1999 VN ₅₆
1999 VP ₅₆	14.3	0.15	20000226	187.60561	178.82135	58.49238	3.80296	0.0256917	2.6269288	41	4	1978–1999	0.65	M-v	2	Williams	38819	1999 VP ₅₆
1999 VS ₅₆	14.1	0.15	20000226	357.61585	266.12070	169.56021	1.39302	0.2203240	3.1005479	73	2	1998–2000	0.51	M-v	3	Williams	38819	1999 VS ₅₆
1999 VT ₅₆	15.0	0.15	20000226	54.87311	214.97281	146.36616	1.01231	0.1829426	2.5200070	54	1	62 days	0.57	M-v	4	Williams	38819	1999 VT ₅₆
1999 VB ₅₇	15.0	0.15	20000226	342.13340	260.52098	205.08218	1.88026	0.1806705	2.4107697	70	3	1993–2000	0.48	M-v	2	Williams	37836	1999 VB ₅₇
1999 VF ₅₇	16.0	0.15	20000226	40.93306	157.64994	220.92928	1.25538	0.0987797	2.6642968	24	2	1997–1999	0.59	M-v	5	Williams	38575	1999 VF ₅₇
1999 VS ₅₇	16.3	0.15	19991029	4.32327	354.19870	39.14274	4.95005	0.0590570	2.6092182	23	1	15 days	0.72			Williams		1999 VS ₅₇
1999 VA ₅₈	15.6	0.15	20000226	29.37392	195.44915	218.45207	3.96374	0.1292682	2.2983413	58	1	77 days	0.49	M-v	4	Williams	38116	1999 VA ₅₈
1999 VF ₅₈	16.7	0.15	19991118	31.90665	313.79682	55.42300	3.47644	0.1767547	2.1786293	45	1	37 days	0.34			Williams		1999 VF ₅₈
1999 VJ ₅₈	15.3	0.15	19991118	159.06882	195.03965	55.40961	4.55442	0.1299954	2.2838013	53	1	37 days	0.50			Williams		1999 VJ ₅₈
1999 VN ₅₈	14.9	0.15	20000226	214.11008	16.83147	211.84501	1.61190	0.1480950	2.4021859	47	4	1994–1999	0.64	M-v	2	Williams	37836	1999 VN ₅₈
1999 VR ₅₈	15.5	0.15	20000226	74.78427	296.74126	51.31098	5.28328	0.1894428	2.3170999	73	1	86 days	0.50	M-v	4	Williams	38117	1999 VR ₅₈
1999 VS ₅₈	14.9	0.15	20000226	95.09720	282.27162	49.69381	6.51794	0.1185611	2.3812033	76	2	1998–2000	0.53	M-v	3	Williams	38819	1999 VS ₅₈
1999 VU ₅₈	13.6	0.15	20000226	115.59453	69.29055	228.59108	11.30495	0.1645736	3.1702906	51	2	1998–1999	0.67	M-v	4	Williams	38117	1999 VU ₅₈
1999 VY ₅₈	14.9	0.15	20000226	259.66019	311.60284	229.96031	3.62416	0.0334924	2.4345339	64	4	1995–1999	0.58	M-v	2	Williams	38117	1999 VY ₅₈
1999 VB ₅₉	16.0	0.15	20000226	9.82531	211.07051	226.68676	2.85817	0.1055532	2.2163864	58	1	75 days	0.47	M-v	4	Williams	38117	1999 VB ₅₉
1999 VH ₅₉	14.3	0.15	20000226	89.01456	79.88051	229.87449	15.52285	0.2480912	3.1795704	54	1	67 days	0.58	M-v	4	Williams	38117	1999 VH ₅₉
1999 VP ₅₉	15.5	0.15	20000226	52.05587	61.39142	312.92863	0.70376	0.0888415	2.6929436	35	2	1997–1999	0.49	M-v	4	Williams	37836	1999 VP ₅₉
1999 VR ₅₉	15.0	0.15	20000226	52.68933	123.04903	245.37445	0.79438	0.0998274	2.6174474	69	3	1993–1999	0.49	M-v	4	Williams	38117	1999 VR ₅₉
1999 VS ₅₉	14.2	0.15	20000226	140.18582	237.96796	38.45849	2.30703	0.0606385	2.9439970	71	2	1996–1999	0.55	M-v	4	Williams	38575	1999 VS ₅₉
1999 VV ₅₉	16.2	0.15	20000226	25.87192	185.21564	225.70662	3.45977	0.1462676	2.2455442	76	1	90 days	0.59	M-v	4	Williams	38117	1999 VV ₅₉

1999 VB ₆₀	14.6	0.15	20000226	13.44894	188.94000	222.24169	8.28514	0.1514818	3.0912969	54	1	89 days	0.55	M-v	4	Williams	38819	1999 VB ₆₀
1999 VC ₆₀	14.4	0.15	20000226	56.25044	263.69580	85.39562	0.25692	0.2030133	3.0756801	62	2	1977–1999	0.47	M-v	4	Williams	37837	1999 VC ₆₀
1999 VD ₆₀	14.2	0.15	20000226	328.84465	63.54570	41.02958	5.88063	0.1236415	3.1968456	52	2	1996–1999	0.55	M-v	4	Williams	38576	1999 VD ₆₀
1999 VO ₆₀	15.4	0.15	20000226	84.05804	119.67195	213.19981	6.63510	0.1418910	2.3995286	57	1	62 days	0.50	M-v	4	Williams	38117	1999 VO ₆₀
1999 VP ₆₀	15.5	0.15	20000226	118.28017	132.29113	162.88217	1.29717	0.1575335	2.4047332	54	2	1998–1999	0.66	M-v	4	Williams	38117	1999 VP ₆₀
1999 VU ₆₀	15.3	0.15	20000226	39.29467	340.91294	50.81338	7.66084	0.1159500	2.2917631	54	1	96 days	0.47	M-v	3	Williams	38117	1999 VU ₆₀
1999 VY ₆₀	13.3	0.15	20000226	272.24474	121.48561	48.03215	16.10642	0.1689184	2.7603455	57	1	92 days	0.48	M-v	4	Williams	38819	1999 VY ₆₀
1999 VF ₆₁	15.3	0.15	20000226	46.57482	318.91271	57.19657	3.20699	0.2103031	2.4034624	55	1	88 days	0.47	M-v	4	Williams	38118	1999 VF ₆₁
1999 VN ₆₁	14.7	0.15	20000226	63.05311	303.59382	52.84725	2.25122	0.0885232	2.7770598	54	2	1992–1999	0.58	M-v	4	Williams	38118	1999 VN ₆₁
1999 VP ₆₁	12.8	0.15	20000226	23.04568	185.98212	201.46294	2.32373	0.2519692	3.9597806	79	1	99 days	0.49	M-v	3	Williams	38820	1999 VP ₆₁
1999 VS ₆₁	13.8	0.15	20000226	304.82648	112.06052	16.85990	1.31505	0.1017404	3.1055542	55	4	1993–1999	0.54	M-v	1	Williams	38820	1999 VS ₆₁
1999 VV ₆₁	14.6	0.15	20000226	281.44017	283.16756	227.24369	4.32743	0.0620238	2.8540489	39	1	62 days	0.49	M-v	5	Williams	38820	1999 VV ₆₁
1999 VY ₆₁	14.4	0.15	20000226	28.89233	154.25647	241.21137	2.03215	0.1621874	2.8451514	84	2	1996–2000	0.52	M-v	3	Williams	38118	1999 VY ₆₁
1999 VA ₆₂	14.5	0.15	20000226	267.96588	306.44589	226.26139	1.18119	0.1259656	2.6234178	54	3	1994–1999	0.68	M-v	4	Williams	38576	1999 VA ₆₂
1999 VB ₆₂	15.4	0.15	20000226	140.40915	52.82346	224.02207	14.59291	0.1567426	2.3928403	40	2	1998–1999	0.67	M-v	4	Williams	39319	1999 VB ₆₂
1999 VH ₆₂	14.8	0.15	20000226	339.06550	233.19210	223.25590	4.03873	0.0809590	2.7436932	64	2	1997–1999	0.55	M-v	4	Williams	38118	1999 VH ₆₂
1999 VJ ₆₂	15.2	0.15	20000226	50.51626	144.10054	234.57943	1.26886	0.1546018	2.2855850	98	4	1985–2000	0.62	M-v	2	Williams	38118	1999 VJ ₆₂
1999 VK ₆₂	14.1	0.15	20000226	178.46164	20.38710	229.17161	3.12129	0.1084212	2.4244396	80	2	1995–2000	0.60	M-v	4	Williams	38118	1999 VK ₆₂
1999 VL ₆₂	15.6	0.15	20000226	21.07581	197.92257	210.96122	2.00701	0.1811855	2.6950515	45	1	87 days	0.54	M-v	4	Williams	38118	1999 VL ₆₂
1999 VR ₆₂	12.8	0.15	20000226	47.83067	308.46518	53.16445	5.52121	0.1953381	3.1541494	100	5	1982–2000	0.64	M-v	1	Williams	38820	1999 VR ₆₂
1999 VV ₆₂	15.1	0.15	20000226	25.41328	351.36570	53.06171	10.89683	0.1797308	2.6502265	45	1	88 days	0.48	M-v	3	Williams	38820	1999 VV ₆₂
1999 VX ₆₂	15.0	0.15	20000226	58.49333	304.13163	65.07945	2.24415	0.1283384	2.3073358	88	2	1989–2000	0.55	M-v	4	Williams	38820	1999 VX ₆₂
1999 VY ₆₂	14.7	0.15	20000226	69.41658	296.39855	47.55570	13.77194	0.1859643	2.5909866	84	1	91 days	0.54	M-v	4	Williams	38820	1999 VY ₆₂
1999 VE ₆₃	16.1	0.15	20000226	55.78433	313.55417	47.17620	5.20928	0.2525248	2.3975387	43	1	66 days	0.56	M-v	4	Williams	39553	1999 VE ₆₃
1999 VL ₆₃	15.0	0.15	20000226	9.77964	201.89209	227.89307	10.05208	0.2267754	2.6419565	74	1	87 days	0.45	M-v	3	Williams	38118	1999 VL ₆₃
1999 VM ₆₃	14.6	0.15	20000226	38.49321	148.31400	225.73456	6.75499	0.3667303	2.6714269	67	1	168 days	0.51	M-v	3	Williams	38820	1999 VM ₆₃
1999 VB ₆₄	14.2	0.15	20000226	149.98773	49.40511	221.72819	12.77743	0.1383789	2.5717188	65	2	1977–1999	0.54	M-v	4	Williams	37837	1999 VB ₆₄
1999 VD ₆₄	14.6	0.15	20000226	349.33562	44.77844	49.89760	13.22696	0.1615551	2.6107873	84	2	1997–1999	0.46	M-v	3	Williams	38820	1999 VD ₆₄
1999 VH ₆₄	15.2	0.15	20000226	323.87521	58.19921	67.64660	3.00358	0.1348239	2.4382560	55	1	88 days	0.62	M-v	5	Williams	38119	1999 VH ₆₄
1999 VQ ₆₄	14.4	0.15	19991118	10.37444	176.41189	220.29457	8.62612	0.0917305	3.1636565	35	1	36 days	0.56			Williams		1999 VQ ₆₄
1999 VF ₆₅	16.0	0.15	20000226	16.32379	1.07142	63.36350	0.87822	0.2282542	2.5332914	55	1	118 days	0.58	M-v	4	Williams	39553	1999 VF ₆₅
1999 VP ₆₅	13.7	0.15	20000226	56.38603	304.17975	64.12868	3.23981	0.0759232	2.8870598	69	3	1996–1999	0.45	M-v	3	Williams	38119	1999 VP ₆₅
1999 VT ₆₅	14.2	0.15	20000226	37.13424	167.24860	218.18609	7.18802	0.1118995	3.2190469	44	1	65 days	0.55	M-v	5	Williams	38119	1999 VT ₆₅
1999 VW ₆₅	15.9	0.15	20000226	1.91242	286.76894	153.28237	1.07428	0.1206364	2.5231928	44	2	1997–1999	0.56	M-v	4	Williams	37838	1999 VW ₆₅
1999 VX ₆₅	14.7	0.15	20000226	64.78172	221.17030	135.79448	1.15691	0.1481559	2.6081428	73	3	1993–1999	0.48	M-v	4	Williams	38119	1999 VX ₆₅
1999 VD ₆₆	13.8	0.15	20000226	90.38399	270.30143	56.19488	12.14773	0.0970079	3.1656229	64	2	1997–1999	0.53	M-v	3	Williams	38119	1999 VD ₆₆
1999 VG ₆₆	15.4	0.15	20000226	343.08816	43.30316	66.44760	3.27140	0.1546482	2.3576278	82	3	1993–2000	0.48	M-v	4	Williams	38820	1999 VG ₆₆
1999 VY ₆₆	13.9	0.15	20000226	54.38477	307.45797	61.36411	2.84686	0.1169161	2.9508537	90	2	1998–2000	0.61	M-v	3	Williams	38820	1999 VY ₆₆
1999 VA ₆₇	15.3	0.15	20000226	142.11351	219.97754	61.32433	6.20520	0.1829606	2.2902144	58	2	1998–1999	0.54	M-v	4	Williams	38820	1999 VA ₆₇
1999 VP ₆₇	15.1	0.15	20000226	296.23050	103.17652	55.96127	10.64217	0.1531624	2.5227147	59	2	1997–1999	0.54	M-v	4	Williams	38820	1999 VP ₆₇
1999 VQ ₆₇	13.5	0.15	20000226	206.82747	167.78319	57.06015	11.69670	0.0442886	3.2057578	54	1	116 days	0.51	M-v	4	Williams	38820	1999 VQ ₆₇
1999 VV ₆₇	14.3	0.15	20000226	345.51830	7.07486	93.92930	1.81695	0.1795612	3.0695816	59	2	1977–1999	0.51	M-v	4	Williams	38120	1999 VV ₆₇
1999 VW ₆₇	14.1	0.15	20000226	297.62888	274.96472	224.95536	7.79589	0.0370695	3.0596135	55	3	1991–1999	0.53	M-v	4	Williams	38577	1999 VW ₆₇
1999 VC ₆₈	15.7	0.15	19991118	22.09971	325.69424	57.83995	9.85928	0.1934741	2.6889036	51	1	34 days	0.55			Williams		1999 VC ₆₈
1999 VD ₆₈	13.5	0.15	20000226	207.40601	6.12569	227.94541	13.38642	0.1217547	2.5509657	67	2	1998–1999	0.57	M-v	4	Williams	38120	1999 VD ₆₈
1999 VF ₆₈	15.2	0.15	20000226	71.06556	129.51839	226.43342	5.51309	0.1461488	2.5825403	46	2	1978–1999	0.49	M-v	4	Williams	39319	1999 VF ₆₈
1999 VG ₆₈	16.2	0.15	20000226	20.54499	297.74764	127.80614	0.66964	0.2071710	2.4317683	76	1	81 days	0.54	M-v	4	Williams	38120	1999 VG ₆₈
1999 VJ ₆₈	16.0	0.15	20000226	61.54998	157.24068	207.52658	1.85936	0.2078693	2.4378583	39	3	1976–1999	0.47	M-v	3	Williams	37838	1999 VJ ₆₈
1999 VM ₆₈	14.8	0.15	20000226	74.02925	284.34703	59.36194	13.06639	0.2250455	2.6486461	50	1	64 days	0.48	M-v	5	Williams		1999 VM ₆₈
1999 VO ₆₈	14.2	0.15	20000226	83.54452	278.15132	67.19141	10.49613	0.1458446	2.6613355	78	1	112 days	0.52	M-v	4	Williams	38820	1999 VO ₆₈
1999 VQ ₆₈	15.7	0.15	20000226	119.08611	248.42835	53.97820	7.31486	0.2014675	2.2611949	46	2	1998–1999	0.58	M-v	4	Williams	38820	1999 VQ ₆₈
1999 VS ₆₈	14.5	0.15	20000226	23.76310	353.03446	55.33566	15.71295	0.0831322	3.1711054	36	1	113 days	0.60	M-v	3	Williams	38820	1999 VS ₆₈
1999 VB ₆₉	15.1	0.15	20000226	96.73736	89.52140	220.89167	11.02270	0.1742986	2.6276849	51	2	1998–1999	0.61	M-v	3	Williams	38121	1999 VB ₆₉

1999 VP ₆₉	15.4	0.15	20000226	122.13922	250.51214	41.95730	1.88611	0.1599642	2.4260717	49	2	1998–1999	0.73	M-v	4	Williams	37839	1999 VP ₆₉
1999 VL ₇₀	14.0	0.15	20000226	184.31569	183.42046	60.93920	2.84420	0.0560473	2.9352053	77	3	1997–1999	0.63	M-v	3	Williams	38121	1999 VL ₇₀
1999 VB ₇₁	15.6	0.15	20000226	112.17321	111.49778	199.24621	2.12153	0.1815260	2.3159996	38	2	1998–1999	0.71	M-v	5	Williams	37839	1999 VB ₇₁
1999 VJ ₇₁	15.5	0.15	20000226	102.34586	264.77046	55.02108	2.81420	0.1654082	2.3230809	45	2	1998–1999	0.79	M-v	4	Williams	37840	1999 VJ ₇₁
1999 VN ₇₁	14.9	0.15	20000226	74.99481	101.66948	229.50871	7.47456	0.1896645	3.1172682	43	1	68 days	0.46	M-v	4	Williams	38121	1999 VN ₇₁
1999 VX ₇₁	13.8	0.15	19991029	93.95907	262.68620	24.73095	9.41384	0.0457638	3.0409039	28	1	38 days	0.60			Williams		1999 VX ₇₁
1999 VY ₇₁	13.0	0.15	20000226	17.44364	310.79706	153.90988	12.75947	0.1063707	2.6502898	80	2	1998–2000	0.47	M-v	3	Williams	39553	1999 VY ₇₁
1999 VA ₇₂	14.4	0.15	20000226	342.32786	47.50217	105.35065	3.15403	0.1200534	2.8385511	43	2	1996–2000	0.48	M-v	4	Williams	38820	1999 VA ₇₂
1999 VB ₇₂	14.4	0.15	20000226	59.20237	302.70748	112.26479	7.06811	0.1446341	2.4588609	64	1	91 days	0.64	M-v	4	Williams	38820	1999 VB ₇₂
1999 VC ₇₂	14.6	0.15	20000226	88.42680	134.74109	249.26203	2.97275	0.1509157	2.1851021	63	3	1989–2000	0.44	M-v	3	Williams	38820	1999 VC ₇₂
1999 VJ ₇₂	14.0	0.15	20000226	57.82326	129.60459	268.07390	7.51669	0.2864129	2.7697569	60	1	103 days	0.49	M-v	4	Williams	38820	1999 VJ ₇₂
1999 VK ₇₂	14.7	0.15	20000226	351.67408	32.53361	114.59328	4.38601	0.1427734	2.4353032	71	1	143 days	0.53	M-v	3	Williams	39553	1999 VK ₇₂
1999 VL ₇₂	14.7	0.15	20000226	342.20523	65.37881	43.85848	5.36185	0.1548394	2.5318919	88	3	1995–2000	0.49	M-v	2	Williams	38820	1999 VL ₇₂
1999 VN ₇₂	14.7	0.15	20000226	124.52257	63.10076	231.29776	5.69559	0.1197856	2.3433074	87	2	1998–1999	0.56	M-v	3	Williams	38122	1999 VN ₇₂
1999 VX ₇₂	15.3	0.15	20000226	77.69706	311.82947	22.93743	5.42085	0.2614054	2.4703050	54	3	1991–1999	0.58	M-v	3	Williams	39553	1999 VX ₇₂
1999 VX ₇₃	13.2	0.15	20000226	203.09619	120.13029	77.60462	2.41210	0.0773693	3.2667463	71	4	1982–1999	0.57	M-v	2	Williams	39319	1999 VX ₇₃
1999 VK ₇₇	15.3	0.15	19991029	349.42452	41.67637	16.70202	5.54950	0.1661258	3.1842678	38	1	52 days	0.55			Williams		1999 VK ₇₇
1999 VP ₇₇	15.5	0.15	20000226	69.61799	341.82446	11.86548	2.67120	0.2141925	2.3917148	53	2	1994–1999	0.52	M-v	5	Williams	39320	1999 VP ₇₇
1999 VU ₇₇	14.0	0.15	20000226	26.73402	350.70127	35.45049	7.88451	0.2955282	3.9871636	46	1	63 days	0.65	M-v	4	Williams	39554	1999 VU ₇₇
1999 VV ₇₇	15.6	0.15	19991029	341.01982	47.19230	27.12431	9.20761	0.1509645	2.8818959	20	1	10 days	0.54			Williams		1999 VV ₇₇
1999 VZ ₇₇	13.6	0.15	20000226	298.26871	202.57992	292.51896	6.27081	0.0909996	2.2757676	67	3	1992–2000	0.49	M-v	3	Williams	38577	1999 VZ ₇₇
1999 VB ₇₈	14.5	0.15	20000226	107.81082	60.51498	236.13670	13.99600	0.1065966	2.5752458	67	2	1998–2000	0.51	M-v	3	Williams	37841	1999 VB ₇₈
1999 VE ₇₈	14.2	0.15	20000226	150.99269	251.83267	355.31029	12.14299	0.2238763	2.5853206	34	1	67 days	0.62	M-v	5	Williams	38122	1999 VE ₇₈
1999 VR ₇₈	12.9	0.15	20000226	283.69456	236.61970	262.48179	4.44020	0.0630166	3.2343653	80	2	1998–2000	0.50	M-v	3	Williams	39320	1999 VR ₇₈
1999 VU ₇₈	15.3	0.15	20000226	95.30561	278.76474	28.38514	2.42798	0.2270147	2.3547453	67	1	64 days	0.50	M-v	5	Williams	38821	1999 VU ₇₈
1999 VA ₇₉	16.1	0.15	19991029	280.52234	244.01279	238.68772	2.73949	0.0558103	2.3971097	16	1	4 days	0.78		E	Williams		1999 VA ₇₉
1999 VB ₇₉	14.0	0.15	19991029	55.77848	307.26195	33.08726	8.06122	0.0139027	3.1464843	34	1	18 days	0.56			Williams		1999 VB ₇₉
1999 VD ₇₉	15.9	0.15	19991029	333.31542	150.31561	279.95946	2.51486	0.0887039	2.6642326	21	1	15 days	0.50			Williams		1999 VD ₇₉
1999 VG ₇₉	16.9	0.15	19991029	19.65180	72.60575	295.34867	1.47265	0.2093383	2.3895991	39	1	18 days	0.59			Williams		1999 VG ₇₉
1999 VH ₇₉	15.3	0.15	20000226	164.65415	290.30015	330.99149	2.06455	0.0998627	2.2546811	78	2	1998–2000	0.62	M-v	4	Williams	38821	1999 VH ₇₉
1999 VL ₇₉	15.4	0.15	20000226	45.59369	147.24591	217.70473	13.07114	0.2809610	2.6492960	44	1	101 days	0.58	M-v	4	Williams		1999 VL ₇₉
1999 VO ₇₉	17.8	0.15	19991029	310.21447	64.36447	33.89393	24.58219	0.1278153	1.9681387	15	1	7 days	0.54			Williams		1999 VO ₇₉
1999 VS ₇₉	15.9	0.15	19991118	329.63851	125.50710	312.81668	1.97248	0.0572425	2.5383289	38	1	39 days	0.67			Williams		1999 VS ₇₉
1999 VA ₈₀	18.0	0.15	19991029	306.93795	62.86245	37.79351	20.56448	0.0923888	1.8831080	17	1	10 days	0.62			Williams		1999 VA ₈₀
1999 VB ₈₀	17.3	0.15	19991029	34.88388	106.78026	226.64632	4.68633	0.3231984	2.2255531	18	1	8 days	0.44			Williams		1999 VB ₈₀
1999 VE ₈₀	16.9	0.15	19991029	23.42467	328.14893	38.44454	9.38504	0.1455743	2.2468123	39	1	27 days	0.52			Williams		1999 VE ₈₀
1999 VO ₈₀	15.4	0.15	20000226	36.71740	317.31567	81.13286	4.76749	0.0380626	2.5178412	39	2	1995–1999	0.61	M-v	4	Williams	39320	1999 VO ₈₀
1999 VV ₈₀	15.1	0.15	19991029	268.92871	268.32410	231.35916	1.04282	0.0797667	2.9464196	11	1	4 days	0.58		E	Williams		1999 VV ₈₀
1999 VB ₈₁	15.1	0.15	20000226	175.13030	75.20467	187.01480	6.38593	0.0886856	2.2816849	58	3	1991–1999	0.72	M-v	3	Williams	38577	1999 VB ₈₁
1999 VD ₈₁	13.9	0.15	20000226	23.57739	291.24211	130.86197	3.94428	0.1732842	2.8815882	50	1	146 days	0.49	M-v	3	Williams	39554	1999 VD ₈₁
1999 VG ₈₁	15.5	0.15	20000226	13.66845	283.18489	160.66673	3.34866	0.1697664	2.4045863	45	2	1997–2000	0.60	M-v	3	Williams	37841	1999 VG ₈₁
1999 VH ₈₁	14.4	0.15	20000226	46.15017	259.29734	137.52609	4.51326	0.1032492	2.7985421	33	1	88 days	0.50	M-v	4	Williams	38122	1999 VH ₈₁
1999 VJ ₈₁	14.4	0.15	20000226	76.35199	244.12776	117.96489	5.12963	0.1182925	2.6417664	30	1	63 days	0.40	M-v	4	Williams	38122	1999 VJ ₈₁
1999 VP ₈₁	12.7	0.15	20000226	133.12988	59.29869	205.24929	11.44760	0.0518156	3.0946095	85	1	171 days	0.49	M-v	4	Williams	38821	1999 VP ₈₁
1999 VQ ₈₁	15.2	0.15	20000226	332.89512	263.66923	204.14491	4.32830	0.2086440	2.3447546	62	1	98 days	0.59	M-v	4	Williams	38123	1999 VQ ₈₁
1999 VS ₈₁	14.5	0.15	20000226	335.87987	244.90987	200.45066	2.84254	0.0968414	2.6389767	77	3	1995–2000	0.61	M-v	3	Williams	39320	1999 VS ₈₁
1999 VT ₈₁	15.4	0.15	20000226	351.71755	226.87109	203.76404	9.25394	0.1066615	2.5343612	48	2	1995–1999	0.65	M-v	5	Williams	39320	1999 VT ₈₁
1999 VU ₈₁	14.6	0.15	20000226	184.40389	184.84025	39.14193	2.84287	0.1579467	2.4080269	68	4	1991–1999	0.65	M-v	3	Williams	39320	1999 VU ₈₁
1999 VZ ₈₁	14.9	0.15	19991009	325.48346	29.02921	33.04343	5.55923	0.0949182	2.6882293	16	1	31 days	0.55			Williams		1999 VZ ₈₁
1999 VP ₈₂	13.1	0.15	20000226	25.59333	290.82480	115.93034	10.01832	0.0950741	3.0768870	48	1	138 days	0.61	M-v	3	Williams	39554	1999 VP ₈₂
1999 VW ₈₃	15.0	0.15	20000226	338.19062	191.10051	259.13760	1.74915	0.0767046	2.6353945	48	2	1997–1999	0.53	M-v	4	Williams	39321	1999 VW ₈₃
1999 VC ₈₄	14.2	0.15	20000226	67.64676	292.46576	45.54215	31.28990	0.2449028	2.7329092	53	1	70 days	0.53	M-v	4	Williams		1999 VC ₈₄
1999 VK ₈₅	15.6	0.15	20000226	44.89988	265.90862	77.19213	15.26791	0.4409747	2.7552623	28	1	64 days	0.44	M-v	4	Williams	38822	1999 VK ₈₅

1999 VS ₈₅	16.8	0.15	19991029	328.30213	103.15748	337.16550	2.24899	0.1414759	2.3604390	30	1	18 days	0.53		Williams		1999 VS ₈₅
1999 VT ₈₅	14.1	0.15	20000226	131.92241	22.00005	262.09836	3.02698	0.0713628	2.7997839	54	2	1998–1999	0.53	M-v	5	Williams	39554 1999 VT ₈₅
1999 VV ₈₅	15.6	0.15	20000226	11.94830	38.39661	28.59944	6.44480	0.2629547	2.5717003	78	1	110 days	0.49	M-v	3	Williams	38822 1999 VV ₈₅
1999 VX ₈₅	16.0	0.15	20000226	123.46741	39.01809	252.76765	1.70502	0.1800111	2.1321706	39	3	1996–1999	0.71	M-v	3	Williams	39554 1999 VX ₈₅
1999 VA ₈₆	16.4	0.15	20000226	68.51560	309.79194	30.35896	5.65770	0.2531162	2.3412088	54	1	69 days	0.50	M-v	4	Williams	39554 1999 VA ₈₆
1999 VS ₈₆	15.6	0.15	20000226	44.87146	224.38106	148.26096	10.87940	0.0931016	2.5806567	27	2	1998–1999	0.47	M-v	3	Williams	39321 1999 VS ₈₆
1999 VV ₈₆	14.9	0.15	20000226	10.83030	265.83657	162.11380	13.04727	0.3313094	3.0861262	41	1	94 days	0.50	M-v	3	Williams	38123 1999 VV ₈₆
1999 VX ₈₆	14.0	0.15	20000226	293.90269	22.77664	130.02383	13.70084	0.0985205	2.5349444	30	1	94 days	0.50	M-v	5	Williams	38822 1999 VX ₈₆
1999 VY ₈₆	16.0	0.15	19991029	351.38541	259.90478	158.54887	12.68204	0.1958650	2.5988697	13	1	6 days	0.66		E	Williams	1999 VY ₈₆
1999 VF ₈₇	17.7	0.15	19991009	330.17864	239.14130	208.83639	27.95593	0.4031999	2.5419981	25	1	23 days	0.57			Williams	1999 VF ₈₇
1999 VG ₈₇	13.9	0.15	20000226	84.04161	99.51687	294.20958	10.26245	0.2752263	2.5870360	55	3	1986–2000	0.62	M-v	2	Williams	38822 1999 VG ₈₇
1999 VH ₈₇	14.7	0.15	20000226	65.85102	315.88946	122.66538	24.28660	0.0905462	1.9272012	65	1	141 days	0.62	M-v	3	Williams	39554 1999 VH ₈₇
1999 VK ₈₇	15.4	0.15	19991029	312.08464	91.33219	16.15383	6.35620	0.2136748	2.7087126	17	1	13 days	0.46			Williams	1999 VK ₈₇
1999 VL ₈₇	15.2	0.15	20000226	64.12929	103.65721	245.32062	4.81722	0.2194665	2.3680416	93	1	98 days	0.46	M-v	4	Williams	38822 1999 VL ₈₇
1999 VM ₈₇	14.1	0.15	20000226	36.24464	133.62926	253.24323	4.75021	0.0589064	2.7480555	66	1	93 days	0.45	M-v	3	Williams	39554 1999 VM ₈₇
1999 VO ₈₇	15.7	0.15	19991029	324.79794	27.80919	50.85485	14.44570	0.1342030	2.6974945	18	1	16 days	0.59			Williams	1999 VO ₈₇
1999 VP ₈₇	12.9	0.15	20000226	32.41187	203.62977	178.61210	8.17850	0.0794294	3.1742784	57	2	1993–2000	0.48	M-v	3	Williams	37842 1999 VP ₈₇
1999 VQ ₈₇	14.6	0.15	20000226	48.65342	171.81878	188.82395	8.61685	0.2254163	2.7199147	46	1	116 days	0.46	M-v	4	Williams	38123 1999 VQ ₈₇
1999 VT ₈₇	13.5	0.15	20000226	72.62674	229.17770	121.11815	11.01882	0.1236019	3.0478515	53	1	148 days	0.60	M-v	4	Williams	39554 1999 VT ₈₇
1999 VZ ₈₇	15.4	0.15	20000226	87.59582	265.85290	85.24847	23.41925	0.1005753	1.9404087	36	1	85 days	0.46	M-v	4	Williams	38123 1999 VZ ₈₇
1999 VL ₈₈	16.3	0.15	19991118	5.59840	354.12557	47.61009	15.09061	0.3087400	3.1429905	33	1	42 days	0.41			Williams	1999 VL ₈₈
1999 VP ₈₉	14.0	0.15	20000226	38.23128	198.19316	172.57415	1.67843	0.1951349	3.1754535	64	2	1984–2000	0.48	M-v	3	Williams	38822 1999 VP ₈₉
1999 VQ ₈₉	15.4	0.15	20000226	101.25711	267.41460	42.85787	7.18339	0.1782796	2.2201506	57	3	1989–1999	0.62	M-v	3	Williams	39321 1999 VQ ₈₉
1999 VS ₈₉	13.1	0.15	20000226	305.27556	70.37383	52.42013	5.78882	0.1004587	3.2243899	59	3	1993–1999	0.60	M-v	4	Williams	38578 1999 VS ₈₉
1999 VD ₉₀	13.3	0.15	20000226	344.14073	39.08057	31.95491	6.68171	0.1265596	3.2133674	73	2	1995–2000	0.60	M-v	4	Williams	39321 1999 VD ₉₀
1999 VN ₉₀	16.5	0.15	19991029	7.93420	343.79190	36.47699	2.01068	0.1425075	2.2438376	31	1	27 days	0.51			Williams	1999 VN ₉₀
1999 VP ₉₀	14.9	0.15	20000226	331.21160	259.68114	207.81877	5.75669	0.1553308	2.4255563	60	1	61 days	0.50	M-v	5	Williams	38822 1999 VP ₉₀
1999 VX ₉₀	15.4	0.15	19991009	62.61199	271.85386	40.66170	11.62943	0.1213306	2.7248257	21	1	56 days	0.54			Williams	1999 VX ₉₀
1999 VK ₉₁	15.8	0.15	20000226	13.62442	203.30153	204.96994	5.49980	0.2445098	2.8853366	53	2	1994–1999	0.56	M-v	4	Williams	38578 1999 VK ₉₁
1999 VO ₉₂	14.6	0.15	19991029	77.02552	250.31743	43.29457	2.36021	0.0859170	2.9299989	21	1	31 days	0.53			Williams	1999 VO ₉₂
1999 VC ₉₆	16.0	0.15	19991029	31.80730	307.34316	40.48545	6.00844	0.1898555	2.5640243	32	1	45 days	0.65			Williams	1999 VC ₉₆
1999 VH ₉₆	14.4	0.15	20000226	3.62398	201.38063	217.12303	4.80567	0.1443792	3.2055271	33	1	87 days	0.65	M-v	5	Williams	39554 1999 VH ₉₆
1999 VD ₉₇	15.6	0.15	20000226	41.51039	171.97458	215.88176	5.10811	0.2405179	2.2068747	82	2	1979–2000	0.50	M-v	3	Williams	37842 1999 VD ₉₇
1999 VP ₁₀₆	15.0	0.15	20000226	183.74501	31.97362	223.04003	1.84692	0.1733888	2.3599524	47	4	1995–1999	0.70	M-v	2	Williams	39555 1999 VP ₁₀₆
1999 VL ₁₁₁	14.7	0.15	20000226	207.09473	164.96051	82.57290	3.03137	0.1440168	2.3300616	23	1	57 days	0.53	M-v	6	Williams	38824 1999 VL ₁₁₁
1999 VL ₁₁₂	15.7	0.15	20000226	34.99884	357.48167	60.97677	4.11968	0.1556176	2.2571574	40	1	110 days	0.46	M-v	4	Williams	38824 1999 VL ₁₁₂
1999 VU ₁₁₂	15.2	0.15	20000226	359.48354	178.72089	286.22593	0.56345	0.1504852	2.4224798	39	1	122 days	0.60	M-v	4	Williams	38825 1999 VU ₁₁₂
1999 VN ₁₁₃	15.7	0.15	20000226	89.40848	7.28392	317.38869	1.61196	0.2341922	2.3469964	53	1	63 days	0.51	M-v	4	Williams	39555 1999 VN ₁₁₃
1999 VP ₁₁₃	15.9	0.15	20000226	205.96094	283.55307	314.74632	1.02091	0.0961728	2.1352021	38	2	1998–1999	0.70	M-v	5	Williams	39555 1999 VP ₁₁₃
1999 VZ ₁₁₃	14.6	0.15	20000226	352.64553	156.65171	270.09487	7.54341	0.0845305	2.8147890	42	1	98 days	0.55	M-v	4	Williams	38123 1999 VZ ₁₁₃
1999 VA ₁₁₄	15.3	0.15	20000226	29.92135	106.43598	275.71681	7.16097	0.2427087	2.7985424	27	1	61 days	0.53	M-v	4	Williams	1999 VA ₁₁₄
1999 VE ₁₁₄	14.1	0.15	20000226	50.91484	80.77481	275.63281	7.56101	0.1021738	2.9947809	37	1	89 days	0.47	M-v	4	Williams	38123 1999 VE ₁₁₄
1999 VG ₁₁₄	14.0	0.15	20000226	112.23875	345.33828	301.12232	8.52528	0.2016085	2.4036080	55	2	1998–2000	0.47	M-v	3	Williams	39322 1999 VG ₁₁₄
1999 VJ ₁₁₄	12.9	0.15	20000226	338.42307	99.53093	354.33064	12.85046	0.1273309	2.5590631	48	2	1997–2000	0.63	M-v	4	Williams	39322 1999 VJ ₁₁₄
1999 VK ₁₁₄	14.4	0.15	19991029	129.58291	302.52624	310.43360	7.64947	0.0896747	2.3917183	20	1	14 days	0.31			Williams	1999 VK ₁₁₄
1999 VP ₁₁₄	14.7	0.15	20000226	352.98607	115.78171	321.54747	7.55304	0.0976846	2.4220238	50	3	1980–2000	0.53	M-v	2	Williams	38825 1999 VP ₁₁₄
1999 VS ₁₁₄	14.1	0.15	20000226	352.38164	178.49650	259.64888	10.66455	0.1534851	2.6395045	68	2	1995–2000	0.50	M-v	3	Williams	37843 1999 VS ₁₁₄
1999 VT ₁₁₄	14.7	0.15	20000226	89.74409	58.51025	257.99019	9.13654	0.1681760	2.3358591	59	2	1998–2000	0.58	M-v	3	Williams	39322 1999 VT ₁₁₄
1999 VV ₁₁₄	13.4	0.15	20000226	7.47679	53.16742	7.43036	13.75351	0.1464620	2.5756045	53	2	1997–2000	0.40	M-v	3	Williams	38579 1999 VV ₁₁₄
1999 VX ₁₁₄	16.8	0.15	19991029	23.48378	41.68414	319.26065	6.06872	0.1455191	2.2534565	19	1	14 days	0.62			Williams	1999 VX ₁₁₄
1999 VZ ₁₁₄	13.8	0.15	20000226	100.32659	43.06566	261.08735	9.57934	0.0832346	2.9799750	45	2	1998–2000	0.75	M-v	3	Williams	39322 1999 VZ ₁₁₄
1999 VH ₁₁₅	15.8	0.15	19991029	4.30454	123.95043	261.09228	11.41324	0.1832937	2.6156496	20	1	13 days	0.40			Williams	1999 VH ₁₁₅
1999 VN ₁₁₉	16.0	0.15	19991009	43.73909	20.21124	304.00097	1.87036	0.1913730	2.3884912	30	1	45 days	0.44			Williams	1999 VN ₁₁₉

1999 VU ₁₁₉	16.1	0.15	19991009	32.17768	0.49542	334.81401	1.79366	0.2296606	2.3548847	43	1	45 days	0.44		Williams		1999 VU ₁₁₉
1999 VC ₁₂₃	14.5	0.15	20000226	101.04765	217.09186	95.65933	2.42672	0.1611896	3.2155927	43	3	1997–1999	0.67	M-v	4	Williams	38579 1999 VC ₁₂₃
1999 VR ₁₂₉	14.4	0.15	20000226	75.16538	109.30496	226.45217	11.16770	0.0675887	2.9546412	51	2	1994–1999	0.53	M-v	5	Williams	38580 1999 VR ₁₂₉
1999 VL ₁₃₀	15.4	0.15	20000226	148.08303	234.22076	44.46492	23.22869	0.1720867	2.2858079	48	2	1998–1999	0.54	M-v	3	Williams	39323 1999 VL ₁₃₀
1999 VN ₁₃₄	14.6	0.15	20000226	233.95074	286.08611	273.97459	0.78811	0.0338591	2.5941100	41	2	1997–1999	0.40	M-v	5	Williams	38826 1999 VN ₁₃₄
1999 VH ₁₃₅	14.2	0.15	20000226	299.89785	343.15834	159.57010	5.77129	0.0957337	2.2777053	56	1	98 days	0.47	M-v	4	Williams	38123 1999 VH ₁₃₅
1999 VJ ₁₃₅	15.0	0.15	20000226	93.20391	203.38944	115.51939	5.10398	0.1755429	2.2992451	63	2	1998–2000	0.60	M-v	4	Williams	39323 1999 VJ ₁₃₅
1999 VK ₁₃₅	14.6	0.15	20000226	42.71419	174.89580	195.53040	10.43657	0.2338189	2.7357808	60	1	128 days	0.64	M-v	4	Williams	38826 1999 VK ₁₃₅
1999 VL ₁₃₅	14.4	0.15	20000226	268.02745	56.01080	118.14077	5.54938	0.1071729	2.2989959	57	5	1990–2000	0.60	M-v	1	Williams	39323 1999 VL ₁₃₅
1999 VM ₁₃₅	15.5	0.15	20000226	6.65824	325.00980	112.20925	3.72458	0.2281517	2.4413433	52	2	1980–2000	0.62	M-v	4	Williams	37843 1999 VM ₁₃₅
1999 VR ₁₃₅	15.8	0.15	20000226	9.68981	179.12020	246.90102	4.60504	0.1194532	2.4020591	57	1	65 days	0.57	M-v	4	Williams	39555 1999 VR ₁₃₅
1999 VY ₁₃₇	15.7	0.15	19991118	343.94212	21.89654	58.65481	30.44513	0.1703317	2.6813611	29	1	27 days	0.55			Williams	1999 VY ₁₃₇
1999 VD ₁₃₈	14.4	0.15	19991029	184.23933	241.77349	325.86636	7.43941	0.2033722	2.3612053	20	1	14 days	0.67			Williams	1999 VD ₁₃₈
1999 VG ₁₃₉	13.9	0.15	20000226	229.62910	299.00434	246.42883	5.23723	0.0694251	3.1940499	44	3	1996–1999	0.40	M-v	3	Williams	39555 1999 VG ₁₃₉
1999 VW ₁₄₀	14.7	0.15	20000226	112.22699	331.59290	317.20897	0.32062	0.1380717	3.1346902	16	2	1997–1999	0.61	M-v	5	Williams	39323 1999 VW ₁₄₀
1999 VG ₁₄₁	14.4	0.15	20000226	180.11920	309.04275	297.40191	1.21800	0.0158402	2.8927843	52	2	1997–1999	0.45	M-v	4	Williams	39323 1999 VG ₁₄₁
1999 VP ₁₄₃	16.2	0.15	20000226	66.08600	56.33758	297.41833	2.02643	0.2027702	2.2388575	45	1	62 days	0.51	M-v	4	Williams	1999 VP ₁₄₃
1999 VS ₁₄₃	16.9	0.15	19991118	5.35562	144.47599	254.95964	4.12923	0.2305487	2.3829565	39	1	39 days	0.59			Williams	1999 VS ₁₄₃
1999 VU ₁₄₃	14.4	0.15	20000226	163.78121	14.24391	246.16445	4.08120	0.0429328	2.7616471	62	2	1998–1999	0.60	M-v	4	Williams	39324 1999 VU ₁₄₃
1999 VB ₁₄₄	14.2	0.15	20000226	84.34080	65.85391	241.52013	5.38181	0.3110358	2.8576420	83	3	1989–1999	0.71	M-v	2	Williams	39324 1999 VB ₁₄₄
1999 VJ ₁₄₄	13.5	0.15	20000226	153.83495	11.71077	251.98147	7.06391	0.1653031	2.5738581	77	3	1990–2000	0.62	M-v	3	Williams	39324 1999 VJ ₁₄₄
1999 VM ₁₄₄	16.7	0.15	19991029	282.22227	135.20717	354.52639	4.12129	0.0759067	2.2436082	15	1	11 days	0.65			Williams	1999 VM ₁₄₄
1999 VQ ₁₄₈	15.9	0.15	20000226	48.20934	118.68824	236.50316	4.07264	0.2623310	2.5679217	40	1	66 days	0.50	M-v	4	Williams	1999 VQ ₁₄₈
1999 VA ₁₅₀	14.9	0.15	20000226	50.66471	131.15812	240.03008	2.95202	0.1022593	2.6694104	43	1	62 days	0.47	M-v	4	Williams	1999 VA ₁₅₀
1999 VD ₁₅₀	16.0	0.15	19991029	356.81550	7.28799	38.62004	8.62916	0.2691119	3.1182185	35	1	36 days	0.51			Williams	1999 VD ₁₅₀
1999 VH ₁₅₀	17.5	0.15	19991029	29.35606	323.72953	28.68547	2.62336	0.2388771	2.2000404	24	1	18 days	1.00			Williams	1999 VH ₁₅₀
1999 VO ₁₅₁	14.6	0.15	19991118	182.14615	336.37970	261.37445	3.29567	0.1053150	3.1602238	30	1	40 days	0.59		D	Williams	1999 VO ₁₅₁
1999 VY ₁₅₃	12.8	0.15	20000226	354.37824	99.73652	79.65557	8.73028	0.1624462	2.7937369	69	4	1977–2000	0.67	M-v	2	Williams	39324 1999 VY ₁₅₃
1999 VA ₁₅₆	14.4	0.15	19991029	300.81779	64.96190	41.18764	3.28204	0.1492339	2.7442441	18	1	13 days	0.45			Williams	1999 VA ₁₅₆
1999 VN ₁₅₇	15.7	0.15	19991029	315.53992	217.54481	225.48337	8.85250	0.1407700	2.3234882	16	1	18 days	0.43			Williams	1999 VN ₁₅₇
1999 VR ₁₅₇	16.9	0.15	19991029	353.44733	89.35884	307.97522	1.90532	0.1698774	2.3574281	20	1	27 days	0.68			Williams	1999 VR ₁₅₇
1999 VV ₁₅₇	15.1	0.15	19991029	29.77626	125.37020	220.38078	7.83716	0.1779716	2.5718590	16	1	18 days	0.46			Williams	1999 VV ₁₅₇
1999 VA ₁₅₈	15.9	0.15	19991118	327.90192	59.57132	29.80449	1.95126	0.0902196	2.4278335	36	1	39 days	0.44		D	Williams	1999 VA ₁₅₈
1999 VJ ₁₅₉	14.3	0.15	19991029	27.69556	332.44414	29.38870	13.64426	0.1094934	3.0764717	25	1	18 days	0.45			Williams	1999 VJ ₁₅₉
1999 VL ₁₅₉	14.1	0.15	20000226	28.34491	147.63503	236.77418	6.27651	0.1572300	3.1937539	40	1	65 days	0.48	M-v	4	Williams	1999 VL ₁₅₉
1999 VQ ₁₅₉	17.4	0.15	19991029	338.39378	65.37131	4.16828	2.94707	0.2268405	2.3504142	15	1	18 days	0.68			Williams	1999 VQ ₁₅₉
1999 VL ₁₆₀	15.1	0.15	19991029	113.53335	41.05896	224.33147	9.04690	0.1706340	2.5879525	15	1	18 days	0.51			Williams	1999 VL ₁₆₀
1999 VW ₁₆₁	16.8	0.15	19991029	28.69475	331.97852	22.46336	4.58227	0.2705892	2.3489036	16	1	13 days	0.39			Williams	1999 VW ₁₆₁
1999 VX ₁₆₁	15.1	0.15	19991029	22.76116	99.17711	272.69671	3.57380	0.1988091	3.1932330	18	1	13 days	0.48			Williams	1999 VX ₁₆₁
1999 VG ₁₆₂	15.8	0.15	19991029	26.17617	73.91024	297.22903	2.63577	0.1162293	2.7779005	17	1	13 days	0.51			Williams	1999 VG ₁₆₂
1999 VC ₁₆₆	15.0	0.15	19991029	355.27461	176.33388	225.64080	9.24021	0.1013629	3.1075249	23	1	18 days	0.69			Williams	1999 VC ₁₆₆
1999 VA ₁₆₇	15.7	0.15	19991029	55.59155	99.70681	253.69729	4.33902	0.0350927	2.6219503	13	1	5 days	0.63		E	Williams	1999 VA ₁₆₇
1999 WB	14.0	0.15	20000226	63.06678	134.49143	232.73232	13.78395	0.1393980	2.6523863	103	2	1998–2000	0.57	M-v	3	Williams	39555 1999 WB
1999 WE	15.6	0.15	20000226	24.26667	201.56306	234.63132	19.27943	0.0897625	1.9517229	47	1	87 days	0.51	M-v	4	Williams	38123 1999 WE
1999 WG	14.2	0.15	20000226	69.10558	96.81656	274.81953	10.02664	0.1847270	2.5991684	59	1	142 days	0.64	M-v	4	Williams	39555 1999 WG
1999 WN	16.7	0.15	20000226	61.02432	265.49768	90.58387	4.13050	0.2642607	2.2568938	42	1	90 days	0.52	M-v	4	Williams	38828 1999 WN
1999 WP	15.0	0.15	20000226	18.38357	287.89279	149.99090	1.32111	0.1700400	2.3694761	74	2	1997–2000	0.57	M-v	3	Williams	38828 1999 WP
1999 WQ	14.8	0.15	20000226	64.55320	102.11984	272.03007	10.58177	0.1861323	2.5852094	40	1	93 days	0.39	M-v	4	Williams	38124 1999 WQ
1999 WR	14.3	0.15	20000226	187.48700	15.09414	221.63033	4.44020	0.1545091	2.4844738	84	2	1998–1999	0.61	M-v	4	Williams	38124 1999 WR
1999 WS	15.4	0.15	20000226	163.16504	279.77023	356.28566	1.35999	0.1229327	2.1445585	79	2	1998–1999	0.66	M-v	4	Williams	38124 1999 WS
1999 WT	15.8	0.15	20000226	22.22558	35.50275	32.56670	4.50244	0.2019952	2.3851929	53	1	116 days	0.49	M-v	3	Williams	38828 1999 WT
1999 WV	16.0	0.15	20000226	35.00658	151.19857	268.09515	5.11136	0.1774593	2.2316599	57	1	112 days	0.52	M-v	4	Williams	38828 1999 WV
1999 WX	14.4	0.15	20000226	47.79300	338.63118	83.51477	7.95382	0.0761863	2.3094247	62	1	144 days	0.46	M-v	4	Williams	38828 1999 WX

1999 WA ₁	12.7	0.15	20000226	21.18904	321.38260	88.53965	15.45622	0.0889503	3.0229589	79	2	1994–2000	0.58	M-v	3	Williams	39555	1999 WA ₁
1999 WC ₁	13.7	0.15	20000226	49.30058	218.20616	163.04932	16.41714	0.2882129	2.6133406	46	1	149 days	0.51	M-v	4	Williams	39555	1999 WC ₁
1999 WF ₁	14.2	0.15	20000226	291.29081	59.02095	64.47860	6.13254	0.1084692	2.4415784	51	1	122 days	0.47	M-v	4	Williams		1999 WF ₁
1999 WM ₁	14.6	0.15	20000226	32.38695	334.91154	79.85288	4.91349	0.1261798	2.2988844	107	1	123 days	0.46	M-v	3	Williams	38828	1999 WM ₁
1999 WP ₁	14.7	0.15	20000226	52.96349	298.95424	96.17658	3.19612	0.2038593	2.3847919	71	1	122 days	0.41	M-v	4	Williams	38828	1999 WP ₁
1999 WR ₁	14.3	0.15	20000226	73.49896	305.71853	49.31173	22.67913	0.0230829	2.5572339	81	2	1991–2000	0.55	M-v	4	Williams	38828	1999 WR ₁
1999 WT ₁	14.3	0.15	20000226	232.98789	46.00203	160.89140	2.16922	0.0963591	2.2599924	60	1	66 days	0.59	M-v	5	Williams	38828	1999 WT ₁
1999 WV ₁	15.5	0.15	20000226	353.17069	322.47246	134.33268	2.66465	0.1656327	2.3698024	71	1	111 days	0.66	M-v	4	Williams	38828	1999 WV ₁
1999 WY ₁	15.7	0.15	20000226	58.91223	144.72192	236.34266	4.24065	0.1612952	2.2363570	52	1	63 days	0.48	M-v	5	Williams	38124	1999 WY ₁
1999 WZ ₁	14.7	0.15	20000226	36.68576	146.04131	246.73488	7.85321	0.2943289	2.7446687	76	1	113 days	0.52	M-v	3	Williams	38828	1999 WZ ₁
1999 WG ₂	17.2	0.15	20000226	34.82965	213.19677	169.34098	1.68240	0.2108960	2.3039345	38	1	61 days	0.70	M-v	5	Williams	38829	1999 WG ₂
1999 WK ₂	14.3	0.15	20000226	225.93145	161.12840	52.07720	7.86781	0.1040513	2.1951526	72	1	97 days	0.49	M-v	3	Williams	38829	1999 WK ₂
1999 WM ₂	14.9	0.15	20000226	325.09682	61.80867	71.84241	4.49739	0.0653281	2.3030126	65	2	1994–2000	0.62	M-v	4	Williams	39555	1999 WM ₂
1999 WP ₂	15.4	0.15	20000226	12.58050	10.75997	74.70513	7.14698	0.2698951	2.5783359	62	1	124 days	0.55	M-v	3	Williams	38829	1999 WP ₂
1999 WQ ₂	13.9	0.15	20000226	99.23233	122.36546	198.69000	4.48621	0.0457634	2.7257598	74	4	1990–2000	0.53	M-v	1	Williams	38829	1999 WQ ₂
1999 WV ₂	13.8	0.15	20000226	342.30665	6.50341	111.83943	10.16525	0.0888969	2.7495796	61	2	1993–2000	0.52	M-v	3	Williams	38829	1999 WV ₂
1999 WY ₂	14.3	0.15	20000226	117.69977	158.01698	150.56076	1.45246	0.2215702	2.4031206	49	1	81 days	0.53	M-v	4	Williams	38829	1999 WY ₂
1999 WA ₃	13.7	0.15	20000226	37.54058	332.38728	70.17035	14.56448	0.1049036	2.9621136	58	2	1994–2000	0.61	M-v	4	Williams	38829	1999 WA ₃
1999 WH ₃	12.6	0.15	20000226	10.98813	15.73858	64.80648	14.08586	0.0495363	2.9735486	66	1	122 days	0.55	M-v	3	Williams	38829	1999 WH ₃
1999 WK ₃	14.5	0.15	20000226	55.64340	155.84496	234.69374	12.37474	0.1837640	2.3440842	54	1	145 days	0.48	M-v	4	Williams	39556	1999 WK ₃
1999 WL ₃	14.6	0.15	20000226	351.59801	33.11951	88.14243	13.64046	0.2280828	2.5807409	66	1	124 days	0.59	M-v	3	Williams	38829	1999 WL ₃
1999 WO ₃	14.2	0.15	20000226	331.48524	263.60547	233.86309	5.13479	0.0845157	2.3028563	73	3	1960–2000	0.56	M-v	3	Williams	39556	1999 WO ₃
1999 WQ ₃	14.8	0.15	20000226	90.02960	255.79417	91.00705	5.05440	0.2144490	2.2620298	51	2	1998–2000	0.59	M-v	4	Williams	37846	1999 WQ ₃
1999 WR ₃	13.5	0.15	20000226	72.88811	257.95207	112.35351	3.18769	0.1257964	2.7457591	43	1	86 days	0.44	M-v	4	Williams	38829	1999 WR ₃
1999 WS ₃	14.9	0.15	20000226	52.87166	163.87584	227.75012	2.58012	0.2158442	2.2965757	66	1	117 days	0.59	M-v	4	Williams	38829	1999 WS ₃
1999 WT ₃	14.8	0.15	20000226	27.37336	156.45278	272.14985	5.82428	0.0776246	2.2868492	51	1	113 days	0.59	M-v	3	Williams	38829	1999 WT ₃
1999 WU ₃	13.8	0.15	20000226	289.04252	330.19553	209.26726	6.80557	0.0690917	2.3745410	71	3	1995–2000	0.53	M-v	2	Williams	39556	1999 WU ₃
1999 WV ₃	14.2	0.15	20000226	122.71744	292.00446	28.71625	4.76360	0.1228505	2.2945157	62	3	1978–2000	0.72	M-v	3	Williams	38829	1999 WV ₃
1999 WW ₃	13.9	0.15	20000226	31.49430	316.39625	106.45471	7.59467	0.1628987	2.4504058	68	3	1981–2000	0.56	M-v	2	Williams	39556	1999 WW ₃
1999 WX ₃	14.9	0.15	20000226	32.76986	211.50847	211.81983	4.97031	0.1867799	2.2978629	63	2	1978–2000	0.51	M-v	3	Williams	39556	1999 WX ₃
1999 WY ₃	13.6	0.15	20000226	221.81451	143.28968	101.63175	3.61296	0.1213999	2.1919759	79	5	1978–2000	0.63	M-v	2	Williams	39556	1999 WY ₃
1999 WB ₄	14.9	0.15	20000226	32.24706	30.75475	27.11882	4.10603	0.1957664	2.4153955	61	1	121 days	0.58	M-v	3	Williams	38829	1999 WB ₄
1999 WC ₄	13.4	0.15	20000226	39.53540	77.60698	324.82802	4.22158	0.1354570	3.0333783	57	1	121 days	0.52	M-v	4	Williams	38829	1999 WC ₄
1999 WE ₄	13.8	0.15	20000226	313.46970	323.30556	193.67267	5.19561	0.0718584	2.2575834	77	4	1975–2000	0.50	M-v	2	Williams	39556	1999 WE ₄
1999 WL ₄	14.4	0.15	20000226	23.95026	338.89218	96.75329	3.69516	0.1424347	2.3967024	60	2	1998–2000	0.52	M-v	3	Williams	39556	1999 WL ₄
1999 WM ₄	15.1	0.15	20000226	21.14370	149.27011	287.30410	5.29663	0.0927122	2.2883814	43	1	120 days	0.67	M-v	4	Williams	38829	1999 WM ₄
1999 WO ₄	15.0	0.15	20000226	59.88406	230.57465	159.33072	4.04808	0.1548067	2.2837800	49	1	116 days	0.54	M-v	4	Williams	38829	1999 WO ₄
1999 WP ₄	13.8	0.15	20000226	274.07952	98.87748	94.49182	7.77596	0.0492759	2.3144944	85	2	1998–2000	0.56	M-v	3	Williams	39556	1999 WP ₄
1999 WW ₄	12.2	0.15	20000226	148.64685	202.79126	101.03101	11.50904	0.0398902	3.1668162	63	5	1988–2000	0.60	M-v	1	Williams	39556	1999 WW ₄
1999 WX ₄	14.7	0.15	20000226	43.99753	275.26530	130.40799	4.04832	0.1640203	2.5949350	46	2	1998–2000	0.63	M-v	3	Williams	38829	1999 WX ₄
1999 WZ ₄	14.0	0.15	20000226	343.11888	39.01675	82.76158	16.86909	0.0675421	2.5598718	61	1	113 days	0.49	M-v	4	Williams	38829	1999 WZ ₄
1999 WA ₅	15.5	0.15	20000226	52.23473	266.26690	124.29234	4.92871	0.2510018	2.3215569	42	1	115 days	0.42	M-v	4	Williams	38829	1999 WA ₅
1999 WT ₅	15.1	0.15	20000226	296.29352	91.02537	39.41818	6.71924	0.0932513	2.4576553	31	1	63 days	0.52	M-v	5	Williams		1999 WT ₅
1999 WY ₅	13.7	0.15	20000226	14.25032	321.55086	108.67614	24.55106	0.2733835	2.3137497	50	1	161 days	0.47	M-v	3	Williams	39556	1999 WY ₅
1999 WA ₆	14.6	0.15	20000226	127.26775	346.45398	307.47216	4.61923	0.1135396	2.2952277	33	1	86 days	0.46	M-v	5	Williams	38125	1999 WA ₆
1999 WC ₆	14.1	0.15	20000226	49.44525	207.73009	155.29294	2.63763	0.2053986	3.0980316	45	1	63 days	0.42	M-v	4	Williams		1999 WC ₆
1999 WE ₆	15.3	0.15	20000226	345.51170	350.55001	117.00504	3.50119	0.1192720	2.4043679	47	2	1993–2000	0.72	M-v	4	Williams	37849	1999 WE ₆
1999 WH ₆	14.4	0.15	20000226	172.53540	169.98147	94.74578	4.81338	0.1408480	2.2978322	78	4	1991–2000	0.74	M-v	2	Williams	37849	1999 WH ₆
1999 WK ₆	15.2	0.15	20000226	336.22730	44.10362	70.19504	8.07641	0.0362730	2.2801488	88	1	107 days	0.53	M-v	4	Williams	38829	1999 WK ₆
1999 WA ₇	13.5	0.15	20000226	209.52878	95.24591	141.83891	2.78650	0.0153748	2.8802626	58	1	105 days	0.48	M-v	3	Williams	38829	1999 WA ₇
1999 WE ₇	15.5	0.15	20000226	26.76767	15.08651	50.12970	5.08448	0.1512807	2.3286013	61	1	100 days	0.47	M-v	3	Williams	38829	1999 WE ₇
1999 WT ₇	14.8	0.15	20000226	147.67031	91.28635	208.10594	2.87152	0.0846786	2.3561898	29	2	1995–2000	0.57	M-v	5	Williams	38580	1999 WT ₇
1999 WU ₇	13.0	0.15	20000226	214.08434	155.56038	110.21335	14.25042	0.1296899	2.6656968	55	1	124 days	0.40	M-v	4	Williams	38830	1999 WU ₇

1999 WX ₇	14.7	0.15	20000226	4.06905	218.43834	264.19556	7.13898	0.1864850	2.4517933	52	1	164 days	0.50	M-v	3	Williams	38830	1999 WX ₇
1999 WY ₇	13.6	0.15	20000226	346.23754	237.85223	267.93261	11.99084	0.1776807	2.7151144	77	1	174 days	0.51	M-v	3	Williams	39556	1999 WY ₇
1999 WA ₈	13.2	0.15	20000226	313.44455	192.61453	297.06220	8.84189	0.1342854	3.1404809	59	1	117 days	0.69	M-v	4	Williams	38830	1999 WA ₈
1999 WE ₈	16.0	0.15	20000226	49.61439	296.99671	90.17370	2.75839	0.2068062	2.3024802	64	1	92 days	0.60	M-v	4	Williams	38126	1999 WE ₈
1999 WG ₈	15.0	0.15	20000226	61.17882	294.39277	81.59176	4.16471	0.1723919	2.2458957	59	1	116 days	0.55	M-v	4	Williams	38830	1999 WG ₈
1999 WM ₈	15.2	0.15	20000226	59.45513	12.03103	336.38359	3.26382	0.2852400	2.5355532	86	1	114 days	0.55	M-v	4	Williams	38830	1999 WM ₈
1999 WO ₈	14.3	0.15	20000226	84.38759	151.65100	204.44492	6.19728	0.1099194	2.3672272	59	1	89 days	0.46	M-v	4	Williams	38126	1999 WO ₈
1999 WT ₈	15.5	0.15	20000226	333.33263	68.68536	76.37987	24.13912	0.2516964	2.3232055	49	1	104 days	0.57	M-v	4	Williams	38830	1999 WT ₈
1999 WU ₈	14.3	0.15	20000226	99.29777	205.84197	129.44091	4.72013	0.1556435	2.3104827	101	3	1997–2000	0.54	M-v	2	Williams	39556	1999 WU ₈
1999 WV ₈	14.9	0.15	20000226	29.03764	253.44799	160.35416	4.22862	0.2375524	2.5941466	55	1	115 days	0.55	M-v	3	Williams	38830	1999 WV ₈
1999 WZ ₈	14.2	0.15	20000226	101.29100	209.51370	108.81365	6.87581	0.2469125	2.6229575	56	2	1998–2000	0.62	M-v	4	Williams	38126	1999 WZ ₈
1999 WB ₉	15.7	0.15	20000226	15.08049	189.30906	258.74940	4.56792	0.2474139	2.3645243	71	1	113 days	0.52	M-v	3	Williams	38830	1999 WB ₉
1999 WD ₉	14.0	0.15	20000226	358.35996	250.66949	204.07689	6.83804	0.0675373	2.3780211	75	2	1997–2000	0.54	M-v	3	Williams	39556	1999 WD ₉
1999 WF ₉	15.0	0.15	20000226	43.54685	86.37285	310.17297	10.92505	0.1772410	2.4738649	33	1	78 days	0.45	M-v	4	Williams	38126	1999 WF ₉
1999 WG ₉	14.2	0.15	20000226	56.88303	264.25617	104.74144	14.14256	0.1887501	2.6259894	58	3	1994–2000	0.63	M-v	2	Williams	38830	1999 WG ₉
1999 WH ₉	15.2	0.15	19991118	112.71471	244.31385	49.09488	8.39796	0.1246475	2.4716261	45	1	35 days	0.75			Williams		1999 WH ₉
1999 WJ ₉	14.1	0.15	20000226	35.69740	229.83013	117.94165	6.61082	0.3117160	2.4113709	58	3	1988–1999	0.55	M-v	2	Williams	37850	1999 WJ ₉
1999 WL ₉	15.3	0.15	20000226	90.51378	231.09869	93.27219	5.49610	0.2250068	2.5802793	52	2	1998–1999	0.68	M-v	4	Williams	38126	1999 WL ₉
1999 WR ₉	12.1	0.15	20000226	304.53134	246.20365	285.89085	6.93838	0.0900955	3.4178206	61	2	1998–2000	0.51	M-v	3	Williams	39556	1999 WR ₉
1999 WS ₉	12.0	0.15	20000226	177.21489	209.28450	81.58234	10.35065	0.0818081	2.6813255	76	4	1983–2000	0.59	M-v	2	Williams	38830	1999 WS ₉
1999 WU ₉	14.6	0.15	20000226	38.96301	143.53519	274.92215	13.90014	0.2212494	2.5695979	54	1	117 days	0.59	M-v	4	Williams	38830	1999 WU ₉
1999 WV ₉	12.0	0.15	20000226	56.72553	324.30709	79.29351	11.20583	0.1001382	2.9923855	93	3	1978–2000	0.64	M-v	1	Williams	39556	1999 WV ₉
1999 WW ₉	15.5	0.15	20000226	47.94913	290.69531	104.33346	3.96785	0.2932412	2.3064381	58	1	113 days	0.41	M-v	4	Williams	38830	1999 WW ₉
1999 WX ₉	14.0	0.15	20000226	13.04083	187.57213	271.27904	12.31026	0.1045846	2.6408335	49	1	144 days	0.54	M-v	3	Williams	39556	1999 WX ₉
1999 WY ₉	14.8	0.15	20000226	88.67779	298.69616	82.67603	25.43218	0.0830222	1.9314893	73	3	1990–2000	0.54	M-v	2	Williams	38830	1999 WY ₉
1999 WA ₁₀	13.8	0.15	20000226	36.80145	329.37215	90.79220	14.80904	0.1575034	2.4578653	62	1	124 days	0.45	M-v	3	Williams	38830	1999 WA ₁₀
1999 WB ₁₀	13.9	0.15	20000226	333.84419	254.21582	254.30729	16.58470	0.2318560	2.9380003	43	1	135 days	0.47	M-v	4	Williams	39556	1999 WB ₁₀
1999 WC ₁₀	13.6	0.15	20000226	358.84776	73.13028	42.43865	4.58259	0.1729715	3.2293657	51	2	1998–2000	0.56	M-v	3	Williams	39556	1999 WC ₁₀
1999 WD ₁₀	14.1	0.15	20000226	344.86239	63.81989	77.73784	3.80842	0.1808597	2.6097728	36	1	134 days	0.55	M-v	4	Williams	39556	1999 WD ₁₀
1999 WE ₁₀	13.1	0.15	20000226	222.69843	171.54871	82.16667	8.09346	0.0692029	2.7682718	43	1	139 days	0.52	M-v	4	Williams	39556	1999 WE ₁₀
1999 WJ ₁₀	14.9	0.15	20000226	18.04361	180.69747	207.71360	10.18312	0.0929699	2.9587341	36	1	83 days	0.52	M-v	4	Williams	38127	1999 WJ ₁₀
1999 WZ ₁₀	16.3	0.15	20000226	359.42440	137.95934	318.09285	0.44376	0.2233251	2.2507292	56	1	116 days	0.60	M-v	4	Williams	38830	1999 WZ ₁₀
1999 WB ₁₁	16.4	0.15	20000226	42.47217	315.00139	79.52251	3.50591	0.2095930	2.3467403	86	1	81 days	0.39	M-v	4	Williams	38127	1999 WB ₁₁
1999 WL ₁₁	13.2	0.15	20000226	89.75977	295.76511	50.77424	14.38620	0.1192439	2.5274534	44	1	85 days	0.45	M-v	4	Williams	38127	1999 WL ₁₁
1999 WP ₁₁	14.9	0.15	20000226	17.26680	45.59127	34.12908	5.26316	0.0975196	2.2239174	67	2	1996–2000	0.54	M-v	3	Williams	38830	1999 WP ₁₁
1999 WQ ₁₁	14.8	0.15	20000226	162.26095	356.98906	276.71637	4.86424	0.1944286	2.4426521	44	2	1998–1999	0.68	M-v	4	Williams	38830	1999 WQ ₁₁
1999 WS ₁₁	16.1	0.15	20000226	69.11689	302.99285	34.69764	4.53476	0.1563190	2.2422544	59	1	62 days	0.45	M-v	4	Williams	38830	1999 WS ₁₁
1999 WT ₁₁	15.4	0.15	20000226	37.09313	337.28283	34.68571	15.36976	0.1608939	2.5443262	59	2	1995–1999	0.46	M-v	3	Williams	38127	1999 WT ₁₁
1999 WR ₁₂	15.5	0.15	20000226	8.61780	209.06156	203.58470	1.63336	0.2285863	2.7391225	43	1	65 days	0.47	M-v	5	Williams		1999 WR ₁₂
1999 WL ₁₃	14.8	0.15	20000226	314.72434	163.89027	345.30304	1.71853	0.0797691	2.2525275	58	1	128 days	0.47	M-v	4	Williams	38830	1999 WL ₁₃
1999 WN ₁₃	15.9	0.15	20000226	32.23065	320.15885	91.50103	5.85400	0.2586221	2.5604968	46	1	88 days	0.49	M-v	4	Williams	38127	1999 WN ₁₃
1999 WP ₁₃	14.3	0.15	20000226	85.93589	102.39698	239.25016	12.56170	0.2199967	2.7311686	44	1	86 days	0.58	M-v	4	Williams	38127	1999 WP ₁₃
1999 WR ₁₃	13.5	0.15	20000226	293.20018	73.04401	103.09820	8.03777	0.1517860	2.8397427	45	1	146 days	0.63	M-v	4	Williams	39556	1999 WR ₁₃
1999 WS ₁₃	14.5	0.15	20000226	351.41004	51.15730	65.39139	24.14018	0.3314327	2.4486628	77	1	139 days	0.42	M-v	3	Williams	38830	1999 WS ₁₃
1999 WB ₁₄	16.9	0.15	20000226	320.80447	56.84385	70.85226	2.64088	0.1148847	2.4154840	25	2	1995–1999	0.52	M-v	5	Williams	38830	1999 WB ₁₄
1999 WZ ₁₄	16.1	0.15	20000226	70.75243	299.07072	33.77623	6.63281	0.1658753	2.3108323	45	1	64 days	0.54	M-v	5	Williams	38830	1999 WZ ₁₄
1999 WA ₁₅	15.6	0.15	20000226	45.41834	318.99174	31.90895	12.62111	0.2003408	2.8664544	35	1	82 days	0.48	M-v	4	Williams	38128	1999 WA ₁₅
1999 WB ₁₅	14.4	0.15	20000226	26.38512	351.40838	31.69756	6.91641	0.0398225	2.7184286	38	1	90 days	0.54	M-v	4	Williams		1999 WB ₁₅
1999 WL ₁₆	15.5	0.15	20000226	83.16229	273.45475	68.51088	4.85505	0.1295328	2.3533876	56	2	1998–1999	0.63	M-v	4	Williams	38128	1999 WL ₁₆
1999 WT ₁₆	14.8	0.15	20000226	19.74658	2.41283	29.15850	9.97214	0.1698794	2.7548862	52	1	65 days	0.49	M-v	4	Williams	39556	1999 WT ₁₆
1999 WV ₁₆	16.0	0.15	20000226	15.03271	181.77125	218.41408	0.80641	0.1285428	2.6225766	29	2	1995–1999	0.44	M-v	4	Williams	37853	1999 WV ₁₆
1999 WA ₁₇	15.6	0.15	20000226	8.27532	10.11840	33.15968	6.65902	0.2016575	3.1568036	20	1	65 days	0.44	M-v	5	Williams		1999 WA ₁₇
1999 WF ₁₇	15.1	0.15	20000226	10.39358	5.68824	46.62831	4.07992	0.2029304	2.6282266	73	1	98 days	0.53	M-v	4	Williams	38128	1999 WF ₁₇

1999 WJ ₁₇	14.8	0.15	20000226	272.65982	286.14454	222.49664	6.03938	0.0655123	2.3329557	47	1	80 days	0.59	M-v	4	Williams	1999 WJ ₁₇
1999 WM ₁₇	16.2	0.15	20000226	34.29736	153.14942	221.49764	11.40020	0.2451465	2.5230102	48	1	90 days	0.56	M-v	3	Williams	38830 1999 WM ₁₇
1999 WV ₁₇	13.3	0.15	20000226	8.63474	199.24687	215.00060	14.12188	0.2034354	2.6757456	77	1	171 days	0.43	M-v	3	Williams	38830 1999 WV ₁₇
1999 WA ₁₈	16.3	0.15	20000226	113.79936	229.07935	69.23598	1.72106	0.2177981	2.3747383	38	3	1995–1999	0.60	M-v	2	Williams	38580 1999 WA ₁₈
1999 WG ₁₈	14.9	0.15	20000226	68.37655	309.84581	68.08885	2.60578	0.0979548	2.2361979	47	1	122 days	0.62	M-v	4	Williams	38831 1999 WG ₁₈
1999 WJ ₁₈	14.1	0.15	20000226	18.20328	351.24870	77.26528	16.76695	0.1716727	3.0955762	41	1	99 days	0.51	M-v	3	Williams	38831 1999 WJ ₁₈
1999 WN ₁₈	14.5	0.15	20000226	20.02715	249.01924	131.21814	10.77711	0.2595817	2.3509414	35	2	1998–1999	0.75	M-v	3	Williams	37853 1999 WN ₁₈
1999 XA	13.7	0.15	20000226	20.02565	345.05517	36.69648	11.91564	0.2456771	2.4198688	52	2	1998–1999	0.61	M-v	3	Williams	37854 1999 XA
1999 XB	13.6	0.15	20000226	33.28291	322.02218	30.29005	15.26294	0.2060411	2.6397371	34	2	1998–1999	0.73	M-v	3	Williams	37854 1999 XB
1999 XG	13.7	0.15	20000226	42.26164	289.91978	50.23911	12.21008	0.2139326	2.6531027	36	3	1982–1999	0.64	M-v	2	Williams	38580 1999 XG
1999 XL	12.2	0.15	20000226	86.16374	268.70030	18.43323	16.94634	0.0678608	2.9852534	56	3	1989–1999	0.62	M-v	4	Williams	37854 1999 XL
1999 XM	14.2	0.15	20000226	25.54271	356.75742	75.72375	8.84731	0.2424513	2.4116905	98	4	1978–2000	0.52	M-v	2	Williams	38831 1999 XM
1999 XU	14.0	0.15	20000226	43.29364	273.85105	71.83667	6.65234	0.2515814	2.6146803	63	3	1995–1999	0.69	M-v	2	Williams	38580 1999 XU
1999 XW	12.3	0.15	20000226	44.97333	325.68907	80.99116	13.08239	0.1219250	3.2050409	68	3	1982–2000	0.59	M-v	1	Williams	39556 1999 XW
1999 XY	14.8	0.15	20000226	18.71494	174.48651	273.81158	4.47213	0.2014061	2.3689089	60	1	141 days	0.40	M-v	3	Williams	39556 1999 XY
1999 XA ₁	13.4	0.15	20000226	335.58257	202.22337	287.55958	8.69158	0.0411625	2.9765688	38	1	143 days	0.60	M-v	4	Williams	39556 1999 XA ₁
1999 XB ₁	11.9	0.15	20000226	162.10337	193.44895	108.93951	9.06297	0.0626539	3.3930204	40	1	123 days	0.55	M-v	4	Williams	38831 1999 XB ₁
1999 XE ₁	13.5	0.15	20000226	49.90649	224.07941	190.16258	4.14997	0.1162137	2.5259840	75	4	1991–2000	0.62	M-v	1	Williams	39556 1999 XE ₁
1999 XF ₁	14.0	0.15	20000226	11.88944	354.83711	108.38902	7.98724	0.0678726	2.3126741	59	1	175 days	0.62	M-v	3	Williams	39556 1999 XF ₁
1999 XG ₁	13.5	0.15	20000226	235.14891	134.53575	109.30470	7.73971	0.0723003	2.3645006	54	3	1994–2000	0.63	M-v	2	Williams	39556 1999 XG ₁
1999 XK ₁	13.1	0.15	20000226	156.22081	191.16233	120.26270	10.58498	0.0779298	2.6199393	47	1	146 days	0.56	M-v	4	Williams	39557 1999 XK ₁
1999 XP ₁	13.8	0.15	20000226	352.37253	7.76269	59.60712	6.46326	0.1585040	2.5306541	39	2	1991–2000	0.67	M-v	4	Williams	37855 1999 XP ₁
1999 XT ₁	13.4	0.15	20000226	227.72471	332.23688	223.23420	22.37806	0.0590458	3.1253027	75	1	91 days	0.61	M-v	4	Williams	38129 1999 XT ₁
1999 XU ₁	15.9	0.15	20000226	315.01481	59.76620	73.52051	6.77863	0.0443410	2.2341425	68	1	84 days	0.66	M-v	4	Williams	38129 1999 XU ₁
1999 XX ₁	15.3	0.15	20000226	36.68068	153.05207	250.47174	3.92461	0.2230019	2.3595122	69	1	98 days	0.49	M-v	4	Williams	38129 1999 XX ₁
1999 XY ₁	14.6	0.15	20000226	42.53315	295.30857	94.57499	18.32850	0.2283943	2.5220459	66	1	146 days	0.47	M-v	3	Williams	38831 1999 XY ₁
1999 XZ ₁	13.5	0.15	20000226	50.99911	183.11498	199.49585	9.09314	0.1689254	2.7698764	50	1	147 days	0.53	M-v	4	Williams	39557 1999 XZ ₁
1999 XA ₂	13.9	0.15	20000226	44.63320	280.10188	113.06865	14.18615	0.1853215	2.5829874	59	2	1994–2000	0.67	M-v	3	Williams	39557 1999 XA ₂
1999 XB ₂	14.1	0.15	20000226	72.50410	198.24851	170.10701	9.44465	0.0950334	2.5783074	57	1	115 days	0.61	M-v	4	Williams	38831 1999 XB ₂
1999 XF ₂	15.2	0.15	20000226	82.30097	240.79298	117.91947	2.65773	0.1488622	2.1940729	55	1	116 days	0.45	M-v	4	Williams	38831 1999 XF ₂
1999 XG ₂	13.8	0.15	20000226	61.10087	116.82810	251.88892	8.40070	0.2173559	2.6445815	71	2	1986–2000	0.60	M-v	4	Williams	39557 1999 XG ₂
1999 XH ₂	13.1	0.15	20000226	144.05937	216.96361	38.55080	12.60467	0.1315613	2.6434802	72	1	97 days	0.50	M-v	4	Williams	38831 1999 XH ₂
1999 XR ₂	14.3	0.15	20000226	46.58810	53.94316	319.62457	4.31654	0.1716069	2.2592940	81	4	1931–2000	0.62	M-v	2	Williams	37855 1999 XR ₂
1999 XS ₂	12.9	0.15	20000226	205.12885	323.92855	253.44248	13.32210	0.1845696	2.4378682	71	3	1994–2000	0.63	M-v	3	Williams	37855 1999 XS ₂
1999 XV ₂	13.1	0.15	20000226	271.21508	272.52043	259.23047	7.83301	0.1681703	2.3855208	73	1	198 days	0.50	M-v	4	Williams	38129 1999 XV ₂
1999 XW ₂	13.3	0.15	20000226	301.07618	231.34345	258.09670	10.73492	0.0714699	2.5160536	75	3	1995–2000	0.48	M-v	2	Williams	37856 1999 XW ₂
1999 XX ₂	15.2	0.15	20000226	345.34473	58.97766	37.64133	12.66979	0.1369561	2.6708633	60	3	1977–1999	0.65	M-v	4	Williams	39325 1999 XX ₂
1999 XD ₃	15.5	0.15	20000226	28.08190	199.99035	214.76809	7.08444	0.0853619	2.3682350	49	2	1997–1999	0.47	M-v	3	Williams	38581 1999 XD ₃
1999 XF ₃	15.7	0.15	20000226	55.85887	164.44639	211.86186	6.26001	0.1743916	2.3322983	54	1	89 days	0.58	M-v	4	Williams	38129 1999 XF ₃
1999 XQ ₃	15.3	0.15	20000226	56.01486	144.07258	226.65741	13.06041	0.1852146	2.5972744	47	1	69 days	0.55	M-v	4	Williams	38129 1999 XQ ₃
1999 XV ₃	13.4	0.15	20000226	26.07401	272.26353	134.40360	3.63327	0.0224884	3.3688136	49	3	1992–1999	0.72	M-v	4	Williams	38581 1999 XV ₃
1999 XW ₃	14.0	0.15	20000226	71.90119	128.80645	224.07938	11.71352	0.1109216	3.1157332	49	3	1997–1999	0.61	M-v	3	Williams	37856 1999 XW ₃
1999 XB ₄	14.6	0.15	20000226	281.81917	71.93675	95.16774	5.98330	0.0374876	2.3802419	66	1	76 days	0.55	M-v	4	Williams	38130 1999 XB ₄
1999 XE ₄	15.4	0.15	20000226	16.07890	271.05422	162.62411	2.69342	0.1940693	2.3887994	62	2	1997–2000	0.52	M-v	3	Williams	37856 1999 XE ₄
1999 XL ₄	13.7	0.15	20000226	43.91283	297.24028	81.96028	6.07498	0.1721790	3.1195887	62	2	1997–1999	0.62	M-v	4	Williams	37857 1999 XL ₄
1999 XM ₄	15.3	0.15	20000226	33.37023	225.28742	179.84298	2.26064	0.2037263	2.4098672	64	2	1995–2000	0.47	M-v	3	Williams	38831 1999 XM ₄
1999 XR ₄	15.4	0.15	20000226	327.35722	3.34626	131.55110	2.52381	0.1664561	2.3432853	46	1	77 days	0.52	M-v	4	Williams	38831 1999 XR ₄
1999 XT ₄	14.6	0.15	20000226	137.48548	199.01438	90.37776	3.88903	0.1681782	2.4474066	59	3	1997–1999	0.64	M-v	4	Williams	37857 1999 XT ₄
1999 XD ₅	14.5	0.15	20000226	264.54966	335.31903	217.39757	5.55053	0.1273213	2.3700161	72	3	1995–1999	0.73	M-v	3	Williams	37858 1999 XD ₅
1999 XL ₅	15.7	0.15	20000226	14.30014	357.84209	75.22732	4.24707	0.2169457	2.5325296	60	1	101 days	0.58	M-v	4	Williams	38831 1999 XL ₅
1999 XM ₅	13.7	0.15	20000226	328.49670	59.27684	65.19267	16.98511	0.1716032	3.0455510	70	1	105 days	0.52	M-v	4	Williams	38831 1999 XM ₅
1999 XP ₅	16.1	0.15	20000226	51.02726	287.34645	101.06453	1.84634	0.1730146	2.1970206	68	3	1994–2000	0.47	M-v	2	Williams	38831 1999 XP ₅
1999 XQ ₅	13.9	0.15	20000226	37.62418	150.92456	269.63123	16.58503	0.0960805	2.7087553	60	1	102 days	0.53	M-v	4	Williams	38831 1999 XQ ₅

1999 XX ₅	13.2	0.15	20000226	252.17761	144.20379	54.88419	5.95030	0.0912069	2.7573791	83	1	134 days	0.47	M-v	4	Williams	39557	1999 XX ₅
1999 XE ₆	15.1	0.15	20000226	98.37533	273.10713	62.74302	7.39029	0.1437390	2.3304064	62	2	1998–2000	0.60	M-v	4	Williams	38832	1999 XE ₆
1999 XJ ₆	15.6	0.15	20000226	80.84407	104.72381	245.74929	13.66336	0.1576352	2.5448851	34	1	90 days	0.58	M-v	4	Williams	38130	1999 XJ ₆
1999 XM ₆	13.7	0.15	20000226	309.81390	111.58714	52.48933	16.27012	0.2953963	3.0785532	52	1	84 days	0.57	M-v	4	Williams	38832	1999 XM ₆
1999 XN ₆	14.7	0.15	20000226	10.94876	42.57891	35.02887	3.88319	0.1334476	2.5615471	34	1	71 days	0.42	M-v	4	Williams		1999 XN ₆
1999 XP ₆	14.6	0.15	20000226	236.38695	287.89239	288.61619	3.08167	0.0843590	2.3364499	60	3	1997–2000	0.60	M-v	3	Williams	39325	1999 XP ₆
1999 XT ₆	14.2	0.15	20000226	74.58523	302.31878	51.32578	8.95110	0.1519226	2.6916328	64	2	1990–2000	0.63	M-v	4	Williams	38832	1999 XT ₆
1999 XV ₆	15.2	0.15	20000226	132.60937	316.99866	347.34348	1.49476	0.1277780	2.2410714	69	2	1998–1999	0.55	M-v	4	Williams	38832	1999 XV ₆
1999 XY ₆	15.0	0.15	20000226	352.12347	63.78937	44.01861	6.65027	0.1939277	2.5750342	56	1	100 days	0.47	M-v	4	Williams	38832	1999 XY ₆
1999 XE ₇	13.9	0.15	20000226	27.64875	345.17271	50.98236	9.41526	0.2737860	3.9728453	38	2	1991–1999	0.48	M-v	3	Williams	39325	1999 XE ₇
1999 XH ₇	14.3	0.15	20000226	241.73587	156.37086	56.69597	14.39746	0.1129570	2.6408551	51	2	1997–2000	0.63	M-v	4	Williams	38832	1999 XH ₇
1999 XK ₇	13.3	0.15	20000226	49.47880	157.44215	226.27698	13.25608	0.1904353	2.5730245	72	2	1998–2000	0.51	M-v	3	Williams	39557	1999 XK ₇
1999 XL ₇	12.3	0.15	20000226	52.98487	308.50141	69.17575	17.09852	0.1123316	3.1776900	68	1	112 days	0.47	M-v	4	Williams	38832	1999 XL ₇
1999 XN ₇	14.4	0.15	20000226	342.12670	344.55123	140.82344	2.71114	0.1686270	2.3857934	60	1	146 days	0.40	M-v	4	Williams	39557	1999 XN ₇
1999 XO ₇	12.7	0.15	20000226	37.01771	67.84026	3.81332	12.38274	0.1557734	2.6629334	48	1	153 days	0.40	M-v	3	Williams	39557	1999 XO ₇
1999 XP ₇	13.1	0.15	20000226	26.48257	19.65810	66.10070	7.97436	0.2526970	2.5602461	71	1	189 days	0.43	M-v	3	Williams	39557	1999 XP ₇
1999 XQ ₇	14.1	0.15	20000226	63.56880	23.88940	11.99187	5.87791	0.2280855	2.3529619	54	3	1977–2000	0.53	M-v	3	Williams	38832	1999 XQ ₇
1999 XR ₇	12.4	0.15	20000226	45.58358	8.48438	53.75359	16.05659	0.1250732	2.9607832	42	1	139 days	0.37	M-v	4	Williams	38832	1999 XR ₇
1999 XS ₇	13.3	0.15	20000226	58.04559	1.68166	45.26740	14.60798	0.1793754	2.7263495	43	1	191 days	0.49	M-v	4	Williams	39557	1999 XS ₇
1999 XT ₇	13.5	0.15	20000226	43.05065	79.07129	341.22052	12.62515	0.1806219	2.5525291	53	1	153 days	0.54	M-v	4	Williams	39557	1999 XT ₇
1999 XX ₇	14.8	0.15	20000226	57.00397	48.99773	287.25949	4.75117	0.2210107	2.2945842	51	2	1992–2000	0.51	M-v	3	Williams	37860	1999 XX ₇
1999 XY ₇	14.7	0.15	20000226	35.57227	338.43646	39.51566	12.44822	0.1836285	2.4296601	66	1	115 days	0.54	M-v	3	Williams	38131	1999 XY ₇
1999 XC ₈	14.4	0.15	20000226	51.63404	301.65622	107.31726	1.59589	0.0869017	2.3442945	56	3	1991–2000	0.57	M-v	2	Williams	39557	1999 XC ₈
1999 XG ₈	14.9	0.15	20000226	66.94838	143.84010	241.67133	4.78178	0.1715815	2.2755140	65	1	135 days	0.48	M-v	4	Williams	39557	1999 XG ₈
1999 XL ₈	14.7	0.15	20000226	339.08843	263.02841	230.41741	3.17625	0.1422572	2.2636482	91	5	1980–2000	0.48	M-v	1	Williams	39557	1999 XL ₈
1999 XM ₈	13.9	0.15	20000226	124.77257	58.45245	279.38387	12.87899	0.2232460	2.6003989	78	2	1998–2000	0.59	M-v	3	Williams	38832	1999 XM ₈
1999 XN ₈	13.5	0.15	20000226	225.31207	155.13024	109.96562	14.30550	0.1167416	2.5855784	76	1	122 days	0.49	M-v	4	Williams	38832	1999 XN ₈
1999 XQ ₈	14.3	0.15	20000226	36.68424	89.92802	262.05370	11.23890	0.2569372	2.7321333	64	1	171 days	0.45	M-v	3	Williams	38832	1999 XQ ₈
1999 XW ₈	15.5	0.15	20000226	46.38443	285.72175	70.85426	28.76017	0.4146585	2.6322556	45	1	80 days	0.52	M-v	4	Williams	38131	1999 XW ₈
1999 XX ₈	15.4	0.15	20000226	26.19258	338.81874	72.51673	34.93402	0.2224601	2.6225775	40	1	61 days	0.59	M-v	4	Williams	38131	1999 XX ₈
1999 XZ ₈	14.9	0.15	20000226	29.47716	338.31041	69.76302	26.06311	0.2327662	2.3075953	57	1	115 days	0.47	M-v	3	Williams	38832	1999 XZ ₈
1999 XK ₉	13.5	0.15	20000226	311.31782	284.21107	252.30858	21.74089	0.2745531	2.3456802	61	1	122 days	0.47	M-v	4	Williams	38832	1999 XK ₉
1999 XF ₁₀	14.8	0.15	20000226	9.72114	133.61407	284.38689	9.16891	0.1302622	3.0386399	29	2	1998–1999	0.60	M-v	4	Williams	37861	1999 XF ₁₀
1999 XL ₁₀	15.6	0.15	20000226	44.49929	111.36408	263.48009	10.33547	0.2476348	2.5185513	37	1	87 days	0.58	M-v	4	Williams		1999 XL ₁₀
1999 XS ₁₀	15.2	0.15	20000226	74.18067	345.02557	5.49563	7.03671	0.1538567	2.2737264	63	1	95 days	0.69	M-v	4	Williams	38131	1999 XS ₁₀
1999 XW ₁₀	13.7	0.15	20000226	174.70458	289.86278	330.12470	4.85504	0.0838488	2.2478984	74	2	1994–2000	0.62	M-v	4	Williams	37862	1999 XW ₁₀
1999 XX ₁₀	13.8	0.15	20000226	34.02026	128.63503	252.97785	15.69507	0.2478525	3.1520565	41	1	112 days	0.51	M-v	3	Williams	38832	1999 XX ₁₀
1999 XE ₁₁	15.7	0.15	20000226	89.76789	0.49936	337.28280	4.60209	0.1351282	2.2185761	42	2	1998–1999	0.54	M-v	4	Williams	38832	1999 XE ₁₁
1999 XF ₁₁	15.6	0.15	20000226	43.59485	20.65035	359.14697	4.62813	0.2389694	2.5589789	38	1	93 days	0.52	M-v	4	Williams	38131	1999 XF ₁₁
1999 XH ₁₁	14.9	0.15	20000226	9.34436	138.84079	298.35917	4.91478	0.1267279	2.2792634	45	1	114 days	0.48	M-v	4	Williams	38832	1999 XH ₁₁
1999 XM ₁₁	15.6	0.15	20000226	32.49090	92.09225	304.36780	3.98993	0.3004751	2.5594879	49	1	118 days	0.55	M-v	3	Williams	38832	1999 XM ₁₁
1999 XO ₁₁	14.9	0.15	20000226	342.62049	186.05846	291.95533	5.07753	0.1954557	2.3076138	41	1	114 days	0.36	M-v	4	Williams	38832	1999 XO ₁₁
1999 XP ₁₁	14.0	0.15	20000226	23.50463	61.88335	349.58975	5.45279	0.0729540	2.7453005	41	1	111 days	0.51	M-v	3	Williams	38832	1999 XP ₁₁
1999 XS ₁₁	13.1	0.15	20000226	35.31258	41.75785	343.57544	10.61137	0.0804557	3.4259146	47	2	1998–2000	0.62	M-v	3	Williams	38582	1999 XS ₁₁
1999 XT ₁₁	13.0	0.15	20000226	325.19936	175.68161	291.44502	11.20677	0.0753444	3.2130295	41	3	1994–2000	0.57	M-v	3	Williams	38832	1999 XT ₁₁
1999 XU ₁₁	12.3	0.15	20000226	17.89098	144.12718	265.00182	13.71001	0.1340022	3.0528591	59	1	127 days	0.43	M-v	3	Williams	38132	1999 XU ₁₁
1999 XV ₁₁	14.5	0.15	20000226	34.38112	98.47146	304.53710	6.67265	0.1372875	2.2912892	58	2	1989–2000	0.50	M-v	3	Williams	38832	1999 XV ₁₁
1999 XW ₁₁	15.4	0.15	20000226	69.88824	31.60825	319.80586	5.75459	0.2044484	2.2591472	52	1	118 days	0.56	M-v	4	Williams	38832	1999 XW ₁₁
1999 XB ₁₂	13.7	0.15	20000226	295.67250	222.51665	287.16806	11.75959	0.1139989	2.6693513	53	3	1985–2000	0.72	M-v	3	Williams	38832	1999 XB ₁₂
1999 XC ₁₂	13.6	0.15	20000226	95.04667	349.03793	340.05697	9.70530	0.0504572	3.0153822	40	1	109 days	0.52	M-v	4	Williams	38832	1999 XC ₁₂
1999 XD ₁₂	15.9	0.15	20000226	13.59695	110.09361	326.95788	6.75051	0.2551839	2.3218647	33	1	81 days	0.50	M-v	4	Williams	38132	1999 XD ₁₂
1999 XL ₁₂	14.6	0.15	20000226	48.18798	258.91567	145.30507	4.54772	0.2718271	2.5557845	49	1	135 days	0.48	M-v	4	Williams	39557	1999 XL ₁₂
1999 XM ₁₂	13.3	0.15	20000226	298.56518	299.42456	256.34675	12.56331	0.1463630	2.5432920	46	1	145 days	0.52	M-v	4	Williams	39557	1999 XM ₁₂

1999 XN ₁₂	13.7	0.15	20000226	64.82636	268.63472	137.21925	6.41441	0.0774953	2.3034526	62	2	1998–2000	0.58	M-v	3	Williams	38832	1999 XN ₁₂
1999 XO ₁₂	15.2	0.15	20000226	45.73363	167.49096	251.06731	11.95494	0.1803250	2.4426470	31	2	1995–2000	0.62	M-v	4	Williams	37862	1999 XO ₁₂
1999 XQ ₁₂	14.6	0.15	20000226	83.77104	203.35356	189.27876	4.78759	0.0200944	2.2765843	43	2	1997–2000	0.75	M-v	4	Williams	38832	1999 XQ ₁₂
1999 XS ₁₂	14.9	0.15	20000226	1.01954	245.95357	216.82722	11.00852	0.1171323	2.3768941	27	1	89 days	0.53	M-v	4	Williams	38132	1999 XS ₁₂
1999 XE ₁₃	15.3	0.15	20000226	356.89307	251.51135	204.80647	11.41467	0.1831608	2.3707136	46	1	122 days	0.66	M-v	4	Williams	38832	1999 XE ₁₃
1999 XF ₁₃	12.7	0.15	20000226	274.41473	90.24998	83.05640	14.19396	0.1065043	2.6007025	61	1	95 days	0.47	M-v	4	Williams	38132	1999 XF ₁₃
1999 XJ ₁₃	14.6	0.15	20000226	39.81614	219.46369	181.22083	6.74646	0.0827842	2.3905147	51	1	149 days	0.62	M-v	4	Williams	39557	1999 XJ ₁₃
1999 XK ₁₃	14.6	0.15	20000226	80.13906	208.55443	140.14874	6.36457	0.1448207	2.3715855	62	3	1997–2000	0.55	M-v	2	Williams	38833	1999 XK ₁₃
1999 XN ₁₃	13.9	0.15	20000226	73.82683	233.49631	114.28709	9.64573	0.1735325	2.7406751	54	1	91 days	0.62	M-v	4	Williams	38132	1999 XN ₁₃
1999 XS ₁₃	13.6	0.15	20000226	8.93990	249.46926	189.83239	8.50181	0.1737716	2.6203843	93	4	1969–2000	0.57	M-v	2	Williams	39557	1999 XS ₁₃
1999 XT ₁₃	14.1	0.15	20000226	47.14541	277.52163	138.82079	7.05808	0.1791949	2.3629956	62	3	1982–2000	0.51	M-v	2	Williams	39557	1999 XT ₁₃
1999 XX ₁₃	13.8	0.15	20000226	336.63246	263.41692	213.11434	16.23040	0.1406467	3.1321386	25	2	1996–1999	0.60	M-v	4	Williams	39325	1999 XX ₁₃
1999 XB ₁₄	16.1	0.15	20000226	21.17019	282.53729	139.35064	8.03627	0.3362117	2.7358063	37	1	84 days	0.62	M-v	4	Williams	38833	1999 XB ₁₄
1999 XK ₁₄	12.6	0.15	20000226	321.53923	255.18527	336.87122	12.69018	0.2952314	2.8411162	88	1	125 days	0.50	M-v	3	Marsden	39557	1999 XK ₁₄
1999 XL ₁₄	12.3	0.15	20000226	165.39861	217.08016	136.16210	10.99527	0.1234850	2.9923076	86	3	1964–2000	0.54	M-v	3	Williams	39557	1999 XL ₁₄
1999 XM ₁₄	13.7	0.15	20000226	110.03878	323.97327	6.82659	5.21658	0.0660199	2.7243409	55	2	1998–2000	0.60	M-v	4	Williams	38132	1999 XM ₁₄
1999 XP ₁₄	15.6	0.15	19991029	15.56737	317.28699	23.83316	11.24241	0.2979936	2.4059139	15	1	42 days	0.53			Williams		1999 XP ₁₄
1999 XZ ₁₄	15.5	0.15	20000226	64.48500	273.47350	89.58683	23.74676	0.3271068	2.3195726	42	1	88 days	0.54	M-v	4	Williams	38132	1999 XZ ₁₄
1999 XD ₁₅	14.4	0.15	20000226	48.10667	129.53025	319.78003	24.09770	0.2323148	2.2677338	44	1	123 days	0.51	M-v	3	Williams	39557	1999 XD ₁₅
1999 XK ₁₅	14.7	0.15	20000226	358.05171	200.81528	258.11502	10.92160	0.1253336	2.5227966	45	1	113 days	0.60	M-v	4	Williams	38833	1999 XK ₁₅
1999 XL ₁₅	15.5	0.15	20000226	75.52045	122.30592	239.88361	4.45251	0.1952491	2.2100971	50	1	86 days	0.48	M-v	4	Williams	38132	1999 XL ₁₅
1999 XN ₁₅	15.2	0.15	20000226	64.36612	224.08215	152.15856	3.26670	0.1707767	2.3796798	41	1	88 days	0.52	M-v	4	Williams	38132	1999 XN ₁₅
1999 XR ₁₅	15.9	0.15	20000226	27.08821	315.95077	115.00960	4.30054	0.1446162	2.2303298	37	1	104 days	0.64	M-v	4	Williams	38833	1999 XR ₁₅
1999 XS ₁₅	12.5	0.15	20000226	124.94476	237.42967	107.19405	14.29424	0.0695483	2.9099576	56	2	1989–2000	0.50	M-v	4	Williams	38833	1999 XS ₁₅
1999 XU ₁₅	13.9	0.15	20000226	54.51460	306.75589	101.49912	15.44636	0.1807954	2.6244967	67	1	124 days	0.48	M-v	4	Williams	38833	1999 XU ₁₅
1999 XV ₁₅	13.6	0.15	20000226	35.23541	315.90894	97.60491	8.95767	0.3837481	2.7489769	81	1	164 days	0.56	M-v	3	Williams	39557	1999 XV ₁₅
1999 XX ₁₅	14.8	0.15	20000226	85.95403	276.33024	100.58331	2.42804	0.1712033	2.2507103	98	4	1992–2000	0.56	M-v	2	Williams	39557	1999 XX ₁₅
1999 XY ₁₅	14.3	0.15	20000226	339.05203	22.99741	147.17391	3.11810	0.1226805	2.4499276	108	2	1998–2000	0.61	M-v	3	Williams	39557	1999 XY ₁₅
1999 XZ ₁₅	14.7	0.15	20000226	42.96551	180.98935	260.92708	2.45950	0.2056278	2.4207825	108	1	165 days	0.58	M-v	4	Williams	39557	1999 XZ ₁₅
1999 XB ₁₆	13.6	0.15	20000226	326.72783	167.39979	9.96449	10.67075	0.1458843	2.4696616	88	2	1998–2000	0.41	M-v	3	Williams	39557	1999 XB ₁₆
1999 XF ₁₆	14.7	0.15	20000226	56.45262	285.07613	90.92261	11.05235	0.2810514	2.3826944	44	1	116 days	0.43	M-v	4	Williams	38833	1999 XF ₁₆
1999 XG ₁₆	14.6	0.15	20000226	52.31919	293.81223	61.10508	30.45811	0.3617175	2.6195505	60	1	111 days	0.35	M-v	3	Williams	38133	1999 XG ₁₆
1999 XQ ₁₆	15.2	0.15	20000226	47.57913	321.11085	79.19867	10.50611	0.1774641	2.2759416	60	1	124 days	0.57	M-v	4	Williams	38833	1999 XQ ₁₆
1999 XV ₁₆	15.8	0.15	20000226	64.73544	293.41268	88.59077	7.49854	0.1713000	2.1799905	38	1	86 days	0.42	M-v	4	Williams	38833	1999 XV ₁₆
1999 XD ₁₇	14.3	0.15	20000226	95.28476	74.95836	273.17699	22.58939	0.2736979	2.3177203	52	1	118 days	0.36	M-v	4	Williams	38833	1999 XD ₁₇
1999 XO ₁₇	14.4	0.15	20000226	37.92244	322.39188	44.04602	7.46243	0.1333997	2.3734841	67	3	1981–1999	0.67	M-v	3	Williams	38582	1999 XO ₁₇
1999 XS ₁₇	14.4	0.15	20000226	355.04037	28.96864	39.36226	6.37213	0.2693535	2.5360209	46	4	1975–1999	0.64	M-v	3	Williams	39326	1999 XS ₁₇
1999 XT ₁₇	12.5	0.15	20000226	321.16055	56.57763	31.70611	11.00985	0.1235102	2.9419794	49	1	107 days	0.66	M-v	4	Williams	38133	1999 XT ₁₇
1999 XY ₁₇	14.8	0.15	20000226	36.77968	140.59021	217.76432	4.41000	0.1769481	2.7348590	66	2	1990–1999	0.64	M-v	3	Williams	39326	1999 XY ₁₇
1999 XZ ₁₇	14.2	0.15	20000226	31.55626	162.84833	204.40023	13.30687	0.1594872	2.6881594	57	4	1986–1999	0.65	M-v	2	Williams	37867	1999 XZ ₁₇
1999 XB ₁₈	13.7	0.15	20000226	38.76801	328.04948	26.72680	10.96784	0.1220567	2.9761100	40	1	90 days	0.48	M-v	3	Williams		1999 XB ₁₈
1999 XE ₁₈	13.3	0.15	20000226	337.18079	47.89545	22.04525	9.87135	0.0959933	3.0689122	70	1	90 days	0.52	M-v	4	Williams	38833	1999 XE ₁₈
1999 XF ₁₈	14.2	0.15	20000226	110.73573	271.21527	19.49017	3.12916	0.1452928	2.1440473	79	3	1992–2000	0.57	M-v	2	Williams	38833	1999 XF ₁₈
1999 XG ₁₈	15.2	0.15	20000226	5.44725	15.07850	45.65826	5.46356	0.1893447	2.3671756	42	1	90 days	0.50	M-v	4	Williams		1999 XG ₁₈
1999 XH ₁₈	14.7	0.15	20000226	47.93118	144.27387	204.06475	6.98751	0.2454757	2.5748925	86	3	1981–2000	0.61	M-v	2	Williams	38833	1999 XH ₁₈
1999 XJ ₁₈	15.3	0.15	20000226	15.43652	10.67466	33.85506	3.33662	0.1685019	2.4093099	73	1	95 days	0.54	M-v	4	Williams	38833	1999 XJ ₁₈
1999 XK ₁₈	15.8	0.15	20000226	15.45195	179.09185	233.88867	1.94561	0.2220165	2.2726269	53	3	1982–1999	0.59	M-v	2	Williams	37867	1999 XK ₁₈
1999 XL ₁₈	14.7	0.15	20000226	15.38080	3.59970	45.38794	4.90500	0.1942577	2.3423982	78	3	1992–2000	0.51	M-v	2	Williams	38833	1999 XL ₁₈
1999 XM ₁₈	14.5	0.15	20000226	35.95074	306.85720	67.84287	3.31982	0.2138245	2.4386444	78	3	1997–2000	0.58	M-v	2	Williams	37867	1999 XM ₁₈
1999 XO ₁₈	14.7	0.15	20000226	21.81957	310.85139	84.84883	3.37563	0.2053123	2.4465981	49	1	116 days	0.50	M-v	4	Williams	38133	1999 XO ₁₈
1999 XR ₁₈	13.4	0.15	20000226	40.93374	330.95886	36.86842	16.36535	0.1035460	2.5808639	64	1	121 days	0.42	M-v	3	Williams	38133	1999 XR ₁₈
1999 XT ₁₈	15.1	0.15	20000226	58.92461	158.40047	176.42730	3.54676	0.2635117	2.5524147	68	4	1991–1999	0.44	M-v	3	Williams	37867	1999 XT ₁₈
1999 XV ₁₈	14.7	0.15	20000226	23.55285	186.67753	209.76778	8.57942	0.1825513	2.4883243	102	1	169 days	0.57	M-v	3	Williams	38833	1999 XV ₁₈

1999 XX ₁₈	14.8	0.15	20000226	357.05140	227.07808	203.50506	6.62505	0.2272851	2.2934002	78	1	137 days	0.55	M-v	4	Williams	39557	1999 XX ₁₈
1999 XB ₁₉	14.1	0.15	20000226	35.03418	334.37734	27.01690	12.49174	0.2007476	2.6765528	29	2	1993–1999	0.65	M-v	3	Williams	37868	1999 XB ₁₉
1999 XD ₁₉	14.5	0.15	20000226	72.01143	281.78641	42.59310	6.97513	0.1986618	2.3158431	66	2	1998–2000	0.63	M-v	3	Williams	38833	1999 XD ₁₉
1999 XE ₁₉	15.1	0.15	20000226	21.13101	344.57143	42.06199	10.53020	0.2183961	2.7199839	46	1	90 days	0.55	M-v	4	Williams		1999 XE ₁₉
1999 XK ₁₉	15.8	0.15	20000226	0.22036	316.84373	115.73158	1.81039	0.1891133	2.3371155	64	1	66 days	0.54	M-v	5	Williams	38833	1999 XK ₁₉
1999 XM ₁₉	14.7	0.15	20000226	28.24900	169.05303	202.74693	11.77016	0.1951969	2.6424022	54	1	137 days	0.52	M-v	3	Williams	39557	1999 XM ₁₉
1999 XN ₁₉	15.0	0.15	20000226	22.13810	10.97425	23.66552	7.12473	0.1159318	2.3567034	65	1	89 days	0.49	M-v	4	Williams	38833	1999 XN ₁₉
1999 XP ₁₉	15.4	0.15	20000226	7.22078	48.99890	35.79220	5.67418	0.4282657	2.4564420	72	1	96 days	0.42	M-v	4	Williams	38133	1999 XP ₁₉
1999 XR ₁₉	15.5	0.15	20000226	55.71960	325.20161	32.13760	7.93149	0.1337220	2.2946865	79	2	1998–1999	0.56	M-v	3	Williams	38833	1999 XR ₁₉
1999 XS ₁₉	15.6	0.15	20000226	24.65760	144.15003	258.18583	2.78539	0.1217262	2.2003790	65	2	1979–1999	0.65	M-v	4	Williams	38582	1999 XS ₁₉
1999 XT ₁₉	15.4	0.15	20000226	66.91386	101.59734	228.94984	5.01189	0.2841182	2.2597328	73	1	137 days	0.63	M-v	4	Williams	38833	1999 XT ₁₉
1999 XU ₁₉	13.9	0.15	20000226	33.27298	346.09306	33.60791	11.31217	0.1529121	2.6050051	69	2	1993–1999	0.56	M-v	3	Williams	37868	1999 XU ₁₉
1999 XV ₁₉	14.7	0.15	20000226	47.26955	123.94527	233.14795	10.40976	0.2035477	2.6785689	50	2	1986–1999	0.54	M-v	3	Williams	39326	1999 XV ₁₉
1999 XX ₁₉	16.0	0.15	20000226	12.63534	349.71360	65.83662	2.20946	0.2045094	2.4825163	32	1	65 days	0.52	M-v	5	Williams		1999 XX ₁₉
1999 XZ ₁₉	15.4	0.15	20000226	42.86655	305.88838	67.93483	3.56632	0.1932836	2.4018964	36	1	64 days	0.48	M-v	4	Williams		1999 XZ ₁₉
1999 XB ₂₀	13.9	0.15	20000226	40.06933	323.04820	53.16653	13.58340	0.1973756	2.6304260	74	1	178 days	0.49	M-v	3	Williams	39557	1999 XB ₂₀
1999 XE ₂₀	14.1	0.15	20000226	36.61559	278.47516	101.99599	3.01300	0.0917787	2.8987962	59	2	1989–2000	0.62	M-v	4	Williams	38833	1999 XE ₂₀
1999 XF ₂₀	14.5	0.15	20000226	294.81153	42.26816	112.27391	2.51688	0.1664136	2.2773817	44	1	89 days	0.61	M-v	5	Williams	38834	1999 XF ₂₀
1999 XL ₂₀	14.6	0.15	20000226	327.39105	23.84199	93.60627	3.32901	0.1388499	2.3953928	62	1	121 days	0.44	M-v	4	Williams	38834	1999 XL ₂₀
1999 XM ₂₀	14.6	0.15	20000226	190.24627	173.11974	64.77528	7.34670	0.0612050	2.4033706	45	1	66 days	0.55	M-v	5	Williams	38834	1999 XM ₂₀
1999 XN ₂₀	15.2	0.15	20000226	330.41368	302.57178	170.57633	2.83292	0.1308186	2.4449712	48	2	1997–1999	0.68	M-v	4	Williams	38834	1999 XN ₂₀
1999 XP ₂₀	12.8	0.15	20000226	93.09901	139.36572	182.03364	3.79277	0.0929750	2.7467817	69	3	1976–2000	0.51	M-v	4	Williams	38834	1999 XP ₂₀
1999 XW ₂₀	15.3	0.15	20000226	2.01892	29.44513	31.39353	14.32626	0.2275117	2.7676486	53	1	84 days	0.62	M-v	4	Williams	38133	1999 XW ₂₀
1999 XY ₂₀	14.2	0.15	20000226	25.83135	347.61592	48.91702	7.80141	0.1303656	2.3630797	59	1	95 days	0.50	M-v	3	Williams	38133	1999 XY ₂₀
1999 XB ₂₁	15.0	0.15	20000226	5.56173	358.20589	72.00976	4.96038	0.0920301	2.3779469	62	2	1993–2000	0.58	M-v	4	Williams	38834	1999 XB ₂₁
1999 XC ₂₁	15.3	0.15	20000226	37.38995	158.67010	218.18015	5.98703	0.2074308	2.4724275	71	1	80 days	0.46	M-v	3	Williams	38834	1999 XC ₂₁
1999 XJ ₂₁	14.3	0.15	20000226	318.62306	290.39982	204.14711	11.16285	0.1630650	2.5994900	57	3	1990–2000	0.56	M-v	3	Williams	38834	1999 XJ ₂₁
1999 XQ ₂₁	14.2	0.15	20000226	33.66177	315.74006	104.86068	16.75238	0.2955787	3.0967973	40	1	86 days	0.41	M-v	4	Williams	38834	1999 XQ ₂₁
1999 XV ₂₁	15.1	0.15	20000226	50.18239	303.33736	126.74793	11.39630	0.2108662	2.3697012	59	1	165 days	0.51	M-v	4	Williams	39557	1999 XV ₂₁
1999 XX ₂₁	14.7	0.15	20000226	12.93197	263.80624	221.03885	3.38722	0.2143882	2.6073084	81	1	143 days	0.55	M-v	3	Williams	39557	1999 XX ₂₁
1999 XZ ₂₁	13.6	0.15	20000226	281.09759	95.35508	136.80104	12.66674	0.1100301	2.5481096	92	4	1993–2000	0.53	M-v	2	Williams	39557	1999 XZ ₂₁
1999 XA ₂₂	13.8	0.15	20000226	316.59092	281.71739	278.47511	8.27578	0.1403610	2.7677224	48	1	95 days	0.52	M-v	4	Williams	39557	1999 XA ₂₂
1999 XD ₂₂	14.0	0.15	20000226	7.62978	353.39574	141.82852	9.79628	0.1015353	2.7217868	69	1	95 days	0.50	M-v	4	Williams	39557	1999 XD ₂₂
1999 XE ₂₂	15.1	0.15	20000226	46.59698	308.28714	134.54195	7.79468	0.1558166	2.3428162	67	1	90 days	0.62	M-v	4	Williams	39557	1999 XE ₂₂
1999 XJ ₂₂	16.0	0.15	20000226	56.02507	159.73875	205.77180	4.28385	0.2270636	2.3374281	56	1	65 days	0.50	M-v	4	Williams	39557	1999 XJ ₂₂
1999 XK ₂₂	14.5	0.15	20000226	175.59290	142.20451	111.93247	3.38446	0.0102600	2.7664684	41	3	1992–1999	0.71	M-v	4	Williams	38834	1999 XK ₂₂
1999 XL ₂₂	14.0	0.15	20000226	25.32520	307.87941	94.10472	3.97340	0.0912823	2.9548654	58	3	1971–2000	0.58	M-v	3	Williams	38834	1999 XL ₂₂
1999 XM ₂₂	15.2	0.15	19991029	28.77714	301.04548	63.85798	10.56326	0.1369685	2.6170974	19	1	56 days	0.68			Williams		1999 XM ₂₂
1999 XP ₂₂	14.9	0.15	20000226	36.68305	330.06752	66.22572	7.00072	0.1449113	2.2997034	85	1	143 days	0.53	M-v	3	Williams	38834	1999 XP ₂₂
1999 XT ₂₂	15.4	0.15	20000226	27.11240	334.41916	70.87820	3.33543	0.1759529	2.4204889	51	1	94 days	0.53	M-v	4	Williams	38134	1999 XT ₂₂
1999 XU ₂₂	15.2	0.15	20000226	6.85285	10.79056	61.25249	10.96781	0.2736003	2.7975818	54	1	95 days	0.59	M-v	4	Williams	38134	1999 XU ₂₂
1999 XB ₂₃	16.1	0.15	19991118	11.70150	335.93784	49.72126	15.40097	0.1977324	2.5948778	41	1	43 days	0.53			Williams		1999 XB ₂₃
1999 XD ₂₃	15.6	0.15	20000226	32.79118	151.49267	231.83667	12.46111	0.2639180	2.6666945	42	1	64 days	0.61	M-v	4	Williams		1999 XD ₂₃
1999 XG ₂₃	14.0	0.15	20000226	19.98328	6.82683	33.70720	9.67506	0.1755347	2.7505518	56	1	89 days	0.54	M-v	4	Williams	39558	1999 XG ₂₃
1999 XH ₂₃	15.5	0.15	20000226	2.59965	42.03862	33.76736	7.83772	0.1849542	2.3092316	35	2	1994–2000	0.48	M-v	4	Williams	38834	1999 XH ₂₃
1999 XJ ₂₃	14.8	0.15	20000226	31.11091	155.11233	233.34814	11.77023	0.1428924	2.5184860	49	1	98 days	0.52	M-v	3	Williams	38834	1999 XJ ₂₃
1999 XM ₂₃	14.4	0.15	20000226	69.24312	239.37389	113.29037	3.12689	0.0901265	2.8354658	58	4	1995–1999	0.60	M-v	1	Williams	38583	1999 XM ₂₃
1999 XN ₂₃	14.0	0.15	20000226	59.99474	209.27132	150.73033	2.67502	0.0973605	2.9147482	62	3	1993–1999	0.56	M-v	3	Williams	38834	1999 XN ₂₃
1999 XT ₂₃	14.8	0.15	19991029	343.33956	307.99528	121.48297	1.32147	0.2381953	3.2990048	34	1	56 days	0.53			Williams		1999 XT ₂₃
1999 XU ₂₃	14.4	0.15	20000226	22.44265	177.01630	229.18567	9.42864	0.1162326	2.5649759	76	1	96 days	0.48	M-v	3	Williams	38134	1999 XU ₂₃
1999 XV ₂₃	14.2	0.15	20000226	96.27111	342.51004	328.35218	1.76427	0.2012526	2.4054994	86	2	1998–2000	0.46	M-v	3	Williams	37870	1999 XV ₂₃
1999 XW ₂₃	13.9	0.15	20000226	14.31825	168.03048	239.43633	8.97802	0.1040748	3.0670909	78	1	93 days	0.45	M-v	4	Williams	38134	1999 XW ₂₃
1999 XX ₂₃	15.2	0.15	20000226	50.19990	130.63075	245.30445	5.79709	0.1376359	2.3295602	73	1	98 days	0.48	M-v	3	Williams	38134	1999 XX ₂₃

1999 XY ₂₃	14.8	0.15	20000226	16.11225	180.06181	235.35219	7.98002	0.0730627	2.5135691	63	2	1995–2000	0.56	M-v	4	Williams	38834	1999 XY ₂₃
1999 XZ ₂₃	14.2	0.15	20000226	151.19598	243.36939	34.38250	4.35989	0.0910229	2.1572922	102	2	1998–2000	0.51	M-v	3	Williams	38834	1999 XZ ₂₃
1999 XA ₂₄	14.4	0.15	20000226	328.86177	233.31585	245.30301	5.24039	0.1117423	2.2832402	95	3	1989–2000	0.50	M-v	3	Williams	37871	1999 XA ₂₄
1999 XB ₂₄	13.6	0.15	20000226	353.58993	202.15379	231.46326	14.45892	0.0831168	3.1350676	74	1	90 days	0.54	M-v	4	Williams	38134	1999 XB ₂₄
1999 XG ₂₄	15.4	0.15	19991029	61.88511	80.58148	235.67719	21.54422	0.2175730	2.3974679	37	1	47 days	0.52			Williams		1999 XG ₂₄
1999 XH ₂₄	14.7	0.15	20000226	91.55537	68.96188	242.74750	5.48649	0.2395939	2.6969585	69	2	1998–1999	0.71	M-v	4	Williams	39326	1999 XH ₂₄
1999 XL ₂₄	14.2	0.15	20000226	348.06682	215.49413	239.58879	4.80932	0.1116732	2.5258315	78	1	114 days	0.48	M-v	4	Williams	38834	1999 XL ₂₄
1999 XP ₂₄	15.1	0.15	20000226	341.38099	33.70117	76.93953	5.27732	0.1894669	2.6140766	59	2	1978–2000	0.53	M-v	4	Williams	38834	1999 XP ₂₄
1999 XQ ₂₄	14.3	0.15	20000226	40.93341	315.19525	60.07131	17.64006	0.2059804	3.1684137	67	1	90 days	0.50	M-v	3	Williams	38834	1999 XQ ₂₄
1999 XS ₂₄	13.9	0.15	20000226	217.66596	4.76035	217.43872	6.77001	0.0619377	2.3980005	58	1	88 days	0.49	M-v	4	Williams	38834	1999 XS ₂₄
1999 XT ₂₄	14.9	0.15	20000226	58.97852	258.93557	101.49875	3.60449	0.2364307	2.4345415	76	3	1995–2000	0.44	M-v	2	Williams	38834	1999 XT ₂₄
1999 XU ₂₄	14.4	0.15	20000226	22.76578	345.80444	67.45039	10.25450	0.0227419	2.5585087	65	1	90 days	0.52	M-v	4	Williams	38834	1999 XU ₂₄
1999 XW ₂₄	15.3	0.15	20000226	23.90685	327.77749	85.60879	3.78044	0.1679056	2.5242733	58	2	1993–2000	0.51	M-v	3	Williams	37872	1999 XW ₂₄
1999 XY ₂₄	14.0	0.15	20000226	255.96031	320.31391	235.08485	22.87277	0.1365522	2.2941852	78	1	87 days	0.49	M-v	4	Williams	38134	1999 XY ₂₄
1999 XZ ₂₄	14.9	0.15	20000226	49.74514	137.69290	240.18396	9.37318	0.2290856	2.3118489	59	1	87 days	0.49	M-v	4	Williams	38134	1999 XZ ₂₄
1999 XA ₂₅	13.6	0.15	20000226	332.49924	52.27726	61.00480	10.24325	0.0793746	2.4841355	101	2	1978–2000	0.59	M-v	3	Williams	39558	1999 XA ₂₅
1999 XB ₂₅	12.8	0.15	20000226	157.13774	202.96637	63.91474	12.59553	0.0592439	3.3928845	50	1	116 days	0.60	M-v	4	Williams	38834	1999 XB ₂₅
1999 XC ₂₅	15.4	0.15	20000226	78.14555	256.68632	71.14264	8.29671	0.3147373	2.3862418	54	1	89 days	0.57	M-v	4	Williams	38834	1999 XC ₂₅
1999 XD ₂₅	15.5	0.15	20000226	31.42852	244.48300	161.59592	2.12790	0.2001840	2.3741521	61	1	89 days	0.47	M-v	3	Williams	38834	1999 XD ₂₅
1999 XG ₂₅	15.0	0.15	20000226	37.78752	332.39712	70.74453	11.35038	0.1158779	2.2847389	56	1	88 days	0.47	M-v	3	Williams	38834	1999 XG ₂₅
1999 XH ₂₅	13.0	0.15	20000226	348.55671	335.54291	117.89598	2.67791	0.1579163	3.2190842	62	4	1982–2000	0.61	M-v	2	Williams	38834	1999 XH ₂₅
1999 XJ ₂₅	14.2	0.15	20000226	23.60772	351.03211	62.66783	16.02940	0.1323149	2.5972789	73	1	115 days	0.40	M-v	3	Williams	38834	1999 XJ ₂₅
1999 XK ₂₅	14.8	0.15	20000226	41.50094	322.91551	63.19730	14.80382	0.1672632	2.7685384	64	1	90 days	0.55	M-v	4	Williams	38834	1999 XK ₂₅
1999 XL ₂₅	15.0	0.15	19991029	37.07784	118.72294	234.23824	10.98360	0.2217353	2.9383202	57	1	54 days	0.58			D Williams		1999 XL ₂₅
1999 XM ₂₅	14.4	0.15	20000226	56.31293	198.64357	162.62858	1.44171	0.1747831	3.1185089	73	3	1993–1999	0.52	M-v	4	Williams	37873	1999 XM ₂₅
1999 XR ₂₅	14.4	0.15	20000226	269.40609	345.73733	197.46117	4.07275	0.0776700	2.2333091	48	1	61 days	0.45	M-v	5	Williams		1999 XR ₂₅
1999 XS ₂₅	14.2	0.15	20000226	135.58998	200.89889	90.06748	4.58920	0.1915542	2.2664111	87	3	1988–2000	0.64	M-v	3	Williams	37873	1999 XS ₂₅
1999 XT ₂₅	15.1	0.15	20000226	56.24668	302.49607	79.28220	4.55856	0.1111327	2.3256178	68	3	1997–2000	0.53	M-v	2	Williams	38835	1999 XT ₂₅
1999 XX ₂₅	15.9	0.15	20000226	3.29819	14.03938	77.47997	7.92737	0.1079385	2.2091033	50	1	63 days	0.61	M-v	5	Williams	38135	1999 XX ₂₅
1999 XZ ₂₅	14.8	0.15	20000226	88.54240	260.63090	79.17411	8.82401	0.1837116	2.2338821	80	2	1998–2000	0.62	M-v	4	Williams	39558	1999 XZ ₂₅
1999 XC ₂₆	16.0	0.15	20000226	36.09720	303.04601	94.11083	2.27279	0.2402938	2.3228216	55	1	83 days	0.52	M-v	4	Williams	38835	1999 XC ₂₆
1999 XD ₂₆	13.1	0.15	20000226	64.00841	299.65134	53.32646	10.99800	0.0770385	3.0212869	75	1	99 days	0.53	M-v	4	Williams	38835	1999 XD ₂₆
1999 XE ₂₆	15.5	0.15	20000226	9.53305	199.69925	231.78973	7.59954	0.2181916	2.4393941	76	1	85 days	0.53	M-v	4	Williams	38135	1999 XE ₂₆
1999 XG ₂₆	13.7	0.15	20000226	292.73761	266.70844	238.87492	9.07766	0.1137307	2.5622912	76	1	96 days	0.44	M-v	4	Williams	38135	1999 XG ₂₆
1999 XH ₂₆	13.8	0.15	20000226	75.23841	14.33440	324.85179	1.11174	0.0778175	2.9185041	58	3	1997–1999	0.65	M-v	3	Williams	38835	1999 XH ₂₆
1999 XK ₂₆	14.1	0.15	20000226	319.76620	143.98501	344.52257	2.13071	0.1500692	2.3945304	88	2	1982–2000	0.47	M-v	4	Williams	37874	1999 XK ₂₆
1999 XL ₂₆	15.3	0.15	20000226	340.91180	219.00734	240.11770	6.25992	0.0577861	2.2891105	65	1	70 days	0.65	M-v	4	Williams	38835	1999 XL ₂₆
1999 XN ₂₆	14.2	0.15	20000226	260.02712	296.90409	244.81844	1.70966	0.1288518	2.5407305	70	2	1993–2000	0.57	M-v	4	Williams	37874	1999 XN ₂₆
1999 XU ₂₆	15.4	0.15	20000226	184.51560	149.11626	102.40759	1.91564	0.1298742	2.1959391	59	2	1998–1999	0.61	M-v	4	Williams	38583	1999 XU ₂₆
1999 XY ₂₆	14.2	0.15	20000226	334.97724	331.68453	124.02921	2.91344	0.0108296	2.9140504	64	2	1997–1999	0.76	M-v	4	Williams	39326	1999 XY ₂₆
1999 XZ ₂₆	14.1	0.15	20000226	3.46283	321.06135	110.12012	2.66562	0.1861718	3.1834768	60	1	89 days	0.57	M-v	4	Williams	38135	1999 XZ ₂₆
1999 XC ₂₇	15.4	0.15	20000226	62.20357	281.56600	83.06542	3.92774	0.1549444	2.3947355	56	1	88 days	0.54	M-v	4	Williams	38135	1999 XC ₂₇
1999 XE ₂₇	14.9	0.15	20000226	65.68452	299.75599	57.46888	15.11028	0.1502004	2.5563888	61	1	91 days	0.57	M-v	4	Williams	38835	1999 XE ₂₇
1999 XH ₂₇	14.5	0.15	20000226	336.75896	38.68504	66.82448	15.35708	0.0536431	2.5787513	33	1	88 days	0.61	M-v	4	Williams	38835	1999 XH ₂₇
1999 XJ ₂₇	14.7	0.15	20000226	45.57100	308.99478	69.59646	12.25286	0.1894915	2.7612385	48	1	90 days	0.56	M-v	4	Williams	38835	1999 XJ ₂₇
1999 XM ₂₇	15.6	0.15	20000226	24.17329	190.76846	228.54021	6.05996	0.2093961	2.3689358	66	1	79 days	0.49	M-v	4	D Williams		1999 XM ₂₇
1999 XP ₂₇	15.6	0.15	20000226	84.08937	267.40703	64.85869	5.64590	0.2131712	2.4324512	53	1	72 days	0.54	M-v	4	Williams	38835	1999 XP ₂₇
1999 XR ₂₇	15.3	0.15	20000226	63.85991	284.48393	77.88786	5.56229	0.2228329	2.2708428	71	2	1998–2000	0.54	M-v	4	Williams	38583	1999 XR ₂₇
1999 XT ₂₇	14.0	0.15	20000226	346.45377	292.95210	157.04203	2.33084	0.0070245	2.8610744	61	3	1995–1999	0.43	M-v	4	Williams	38835	1999 XT ₂₇
1999 XW ₂₇	15.4	0.15	20000226	15.95385	335.04211	98.05779	6.74173	0.2854930	2.5737217	62	2	1995–2000	0.39	M-v	3	Williams	38835	1999 XW ₂₇
1999 XY ₂₇	16.0	0.15	19991118	218.09501	150.81753	36.99539	9.22598	0.0295915	2.3628660	38	1	39 days	0.57			Williams		1999 XY ₂₇
1999 XZ ₂₇	14.9	0.15	20000226	317.98000	119.86348	12.93060	2.37334	0.1645501	2.4087617	76	2	1997–2000	0.48	M-v	4	Williams	37875	1999 XZ ₂₇
1999 XD ₂₈	14.9	0.15	20000226	309.87628	48.73800	98.62942	3.78734	0.1849170	2.5787661	28	2	1997–1999	0.73	M-v	4	Williams	37875	1999 XD ₂₈

1999 XL ₂₈	14.0	0.15	20000226	335.01850	30.44914	74.28593	11.39449	0.0203299	3.0625356	49	1	68 days	0.50	M-v	5	Williams		1999 XL ₂₈
1999 XN ₂₈	14.0	0.15	20000226	275.81560	46.77579	124.91506	3.04737	0.0581044	2.8533881	54	3	1996–2000	0.49	M-v	4	Williams	38835	1999 XN ₂₈
1999 XP ₂₈	14.7	0.15	20000226	69.29574	224.10625	139.75493	2.52340	0.1031639	2.7118529	53	3	1992–2000	0.59	M-v	4	Williams	37876	1999 XP ₂₈
1999 XS ₂₈	14.2	0.15	20000226	88.42306	265.94509	87.76849	6.07784	0.0084875	2.7345157	60	3	1997–2000	0.70	M-v	3	Williams	38835	1999 XS ₂₈
1999 XT ₂₈	14.2	0.15	20000226	8.37340	340.01045	96.07304	5.83478	0.0620353	2.7519342	56	1	74 days	0.48	M-v	4	Williams	38135	1999 XT ₂₈
1999 XU ₂₈	14.2	0.15	20000226	64.76581	285.87857	79.80003	12.34736	0.2030212	2.3372920	63	1	102 days	0.44	M-v	4	Williams	38835	1999 XU ₂₈
1999 XW ₂₈	15.8	0.15	20000226	53.09063	286.96227	99.26636	4.92292	0.1885442	2.2121533	58	1	116 days	0.63	M-v	4	Williams	38835	1999 XW ₂₈
1999 XC ₂₉	15.3	0.15	19991118	16.06251	170.62894	231.55744	10.55681	0.1138892	3.0835565	36	1	41 days	0.73			Williams		1999 XC ₂₉
1999 XD ₂₉	13.0	0.15	20000226	187.27884	169.76667	82.98528	12.80876	0.0569968	3.0530603	51	1	83 days	0.52	M-v	4	Williams	38135	1999 XD ₂₉
1999 XG ₂₉	14.0	0.15	20000226	59.15377	151.04087	223.39442	10.31975	0.1125874	2.9871451	46	2	1998–1999	0.72	M-v	3	Williams	37876	1999 XG ₂₉
1999 XH ₂₉	12.9	0.15	20000226	283.58092	80.17606	91.73347	10.93969	0.1321218	3.2199246	69	2	1984–2000	0.67	M-v	4	Williams	39558	1999 XH ₂₉
1999 XL ₂₉	14.0	0.15	20000226	214.06029	132.37243	103.51536	6.69970	0.1255582	2.5450441	49	3	1997–2000	0.61	M-v	3	Williams	37877	1999 XL ₂₉
1999 XP ₂₉	15.0	0.15	19991118	43.82774	124.38231	231.71221	10.78005	0.2342408	3.1510453	28	1	29 days	0.80			Williams		1999 XP ₂₉
1999 XQ ₂₉	14.5	0.15	20000226	87.02956	173.33172	161.30953	2.38413	0.2404269	2.4003772	72	3	1969–2000	0.57	M-v	2	Williams	38835	1999 XQ ₂₉
1999 XR ₂₉	15.3	0.15	20000226	85.98372	246.31060	99.26253	4.34909	0.1803579	2.2564995	64	3	1982–2000	0.67	M-v	3	Williams	38835	1999 XR ₂₉
1999 XS ₂₉	13.6	0.15	20000226	47.48005	189.19804	198.36175	6.92942	0.1622272	3.1753068	69	5	1976–2000	0.56	M-v	1	Williams	39558	1999 XS ₂₉
1999 XT ₂₉	14.9	0.15	20000226	61.42542	178.77914	205.97654	6.13338	0.1247596	2.3030413	43	1	89 days	0.37	M-v	4	Williams	38136	1999 XT ₂₉
1999 XF ₃₀	14.5	0.15	20000226	351.33294	2.23598	108.09171	7.50395	0.0743171	2.3262558	44	1	146 days	0.40	M-v	4	Williams	39558	1999 XF ₃₀
1999 XM ₃₀	13.3	0.15	20000226	11.89977	331.77942	111.89872	9.20440	0.1996382	2.7966753	78	4	1977–2000	0.65	M-v	2	Williams	39558	1999 XM ₃₀
1999 XO ₃₀	14.3	0.15	20000226	84.33838	247.06540	101.87999	14.53003	0.1897714	2.5971741	39	1	88 days	0.51	M-v	4	Williams	38136	1999 XO ₃₀
1999 XT ₃₀	13.9	0.15	20000226	85.97911	236.96567	116.46585	10.26445	0.1691512	2.7342156	46	2	1998–2000	0.64	M-v	3	Williams	39558	1999 XT ₃₀
1999 XW ₃₀	16.1	0.15	20000226	6.05146	275.14535	178.32245	2.05133	0.1659744	2.2444921	40	1	92 days	0.51	M-v	4	Williams	38835	1999 XW ₃₀
1999 XG ₃₁	13.9	0.15	20000226	35.33051	333.98601	101.78692	25.06648	0.1459481	2.5520269	73	1	169 days	0.50	M-v	3	Williams	38835	1999 XG ₃₁
1999 XK ₃₁	12.9	0.15	20000226	40.44669	292.74609	133.66773	10.61134	0.0666213	2.9762733	43	1	147 days	0.39	M-v	4	Williams	39558	1999 XK ₃₁
1999 XL ₃₁	13.5	0.15	20000226	4.11114	335.43093	134.16461	10.15361	0.0186765	2.5722805	64	2	1998–2000	0.66	M-v	3	Williams	38835	1999 XL ₃₁
1999 XO ₃₁	14.1	0.15	20000226	338.36725	39.99666	115.82844	12.22783	0.1693223	2.6903352	54	1	175 days	0.65	M-v	4	Williams	38835	1999 XO ₃₁
1999 XP ₃₁	12.5	0.15	20000226	131.48919	225.82295	114.47621	16.03178	0.1390546	2.5623026	68	1	175 days	0.50	M-v	4	Williams	39558	1999 XP ₃₁
1999 XR ₃₁	13.3	0.15	20000226	128.01367	220.50177	119.88361	15.34288	0.1988787	2.5880118	55	1	175 days	0.49	M-v	4	Williams	38835	1999 XR ₃₁
1999 XT ₃₁	14.5	0.15	20000226	47.90096	189.57029	244.77600	1.24963	0.2308093	2.6684466	73	2	1998–2000	0.56	M-v	3	Williams	39558	1999 XT ₃₁
1999 XU ₃₁	14.0	0.15	20000226	344.60305	226.87389	297.02080	8.82883	0.0764915	2.5822825	54	1	155 days	0.60	M-v	3	Williams	39558	1999 XU ₃₁
1999 XX ₃₁	13.3	0.15	20000226	347.57455	42.33399	125.72423	11.26018	0.2553293	2.7917118	100	1	165 days	0.56	M-v	3	Williams	39558	1999 XX ₃₁
1999 XY ₃₁	15.0	0.15	20000226	40.26485	243.82449	206.33852	1.57262	0.1691049	2.4413973	59	1	110 days	0.64	M-v	4	Williams	39558	1999 XY ₃₁
1999 XA ₃₂	11.8	0.15	20000226	291.04004	288.95925	290.44238	12.65194	0.1066116	3.1407593	108	7	1976–2000	0.56	M-v	2	Williams	39558	1999 XA ₃₂
1999 XB ₃₂	14.8	0.15	20000226	55.57851	183.02000	248.04053	2.89645	0.1303796	2.5723167	49	2	1998–2000	0.60	M-v	3	Williams	39558	1999 XB ₃₂
1999 XC ₃₂	14.5	0.15	20000226	71.01544	155.69557	260.52831	5.40265	0.1063699	2.3699058	54	1	111 days	0.60	M-v	4	Williams	39558	1999 XC ₃₂
1999 XD ₃₂	15.0	0.15	20000226	8.60317	234.61315	256.51137	4.11176	0.0739194	2.2897401	85	2	1998–2000	0.55	M-v	3	Williams	39558	1999 XD ₃₂
1999 XF ₃₂	13.2	0.15	20000226	100.44969	97.30776	260.64111	5.80881	0.2633066	2.6254194	59	3	1990–2000	0.67	M-v	3	Williams	38835	1999 XF ₃₂
1999 XL ₃₂	13.9	0.15	20000226	293.93066	93.22046	117.06498	16.43732	0.1219867	2.6734882	37	1	68 days	0.51	M-v	5	Williams	38835	1999 XL ₃₂
1999 XM ₃₂	14.9	0.15	20000226	29.32687	182.08433	269.84774	5.53893	0.2128960	2.5636420	46	1	102 days	0.53	M-v	4	Williams	39558	1999 XM ₃₂
1999 XN ₃₂	13.5	0.15	20000226	52.21937	316.33891	116.99320	16.32244	0.0769441	2.6261965	66	1	147 days	0.50	M-v	3	Williams	38836	1999 XN ₃₂
1999 XQ ₃₂	14.8	0.15	20000226	40.08135	320.47922	114.61985	5.16546	0.2327948	2.5717889	48	1	86 days	0.41	M-v	4	Williams	38836	1999 XQ ₃₂
1999 XS ₃₂	15.5	0.15	20000226	52.91171	174.45754	258.43104	3.64509	0.1097074	2.2929172	53	2	1998–2000	0.55	M-v	4	Williams	38836	1999 XS ₃₂
1999 XT ₃₂	14.6	0.15	20000226	358.25466	209.48661	294.35297	6.77081	0.2571406	2.8575356	81	1	139 days	0.48	M-v	3	Williams	39558	1999 XT ₃₂
1999 XU ₃₂	15.2	0.15	20000226	55.21193	182.74802	241.93094	1.99235	0.1706019	2.4290363	51	3	1994–2000	0.67	M-v	4	Williams	39558	1999 XU ₃₂
1999 XV ₃₂	13.3	0.15	20000226	78.42336	108.42310	286.48815	10.20642	0.1963616	2.6136570	105	2	1998–2000	0.50	M-v	3	Williams	39558	1999 XV ₃₂
1999 XW ₃₂	13.7	0.15	20000226	332.86105	254.71995	280.83724	7.48900	0.1604795	2.9767224	63	1	111 days	0.51	M-v	4	Williams	39558	1999 XW ₃₂
1999 XX ₃₂	13.1	0.15	20000226	120.39783	74.55087	289.75820	13.82834	0.1207670	2.6282255	59	1	165 days	0.55	M-v	4	Williams	39558	1999 XX ₃₂
1999 XY ₃₂	14.5	0.15	20000226	357.30396	225.89169	278.84904	7.27253	0.1393617	2.5267858	50	1	119 days	0.45	M-v	3	Williams	39558	1999 XY ₃₂
1999 XZ ₃₂	14.3	0.15	20000226	343.19419	223.69575	292.03649	10.17350	0.0368524	2.6008105	54	2	1993–2000	0.53	M-v	3	Williams	39558	1999 XZ ₃₂
1999 XA ₃₃	13.9	0.15	20000226	340.60541	236.33480	293.32830	10.80585	0.2058711	3.0157067	64	1	139 days	0.48	M-v	3	Williams	38836	1999 XA ₃₃
1999 XB ₃₃	14.6	0.15	20000226	33.01422	340.37050	112.23002	3.85903	0.2127275	2.4390605	73	1	164 days	0.35	M-v	3	Williams	39558	1999 XB ₃₃
1999 XC ₃₃	14.4	0.15	20000226	308.56898	264.07700	300.88158	4.26307	0.1366354	2.2653428	84	2	1998–2000	0.54	M-v	3	Williams	39558	1999 XC ₃₃
1999 XE ₃₃	15.4	0.15	20000226	11.13944	34.85838	92.24227	2.21027	0.1256295	2.4246128	51	1	111 days	0.55	M-v	4	Williams	39558	1999 XE ₃₃

1999 XG ₃₃	13.7	0.15	20000226	15.45069	198.05971	280.65891	5.76242	0.2523447	2.5654255	105	2	1998–2000	0.69	M-v	3	Williams	39558	1999 XG ₃₃
1999 XH ₃₃	15.0	0.15	20000226	67.82110	280.58852	125.46622	6.73414	0.2264079	2.2522723	105	1	146 days	0.47	M-v	4	Williams	39558	1999 XH ₃₃
1999 XJ ₃₃	14.3	0.15	20000226	29.44919	178.36971	262.21212	2.86782	0.3759216	3.0303756	97	1	170 days	0.40	M-v	3	Williams	39558	1999 XJ ₃₃
1999 XL ₃₃	14.9	0.15	20000226	340.18225	242.87521	285.75188	2.71571	0.1101684	2.2164545	65	1	144 days	0.48	M-v	4	Williams	39558	1999 XL ₃₃
1999 XM ₃₃	15.1	0.15	20000226	39.35268	321.63811	125.39080	4.29125	0.1863238	2.5748636	78	3	1997–2000	0.54	M-v	2	Williams	39558	1999 XM ₃₃
1999 XO ₃₃	13.1	0.15	20000226	2.96645	19.01123	119.03383	14.76034	0.0915141	2.6189954	112	1	165 days	0.37	M-v	3	Williams	39558	1999 XO ₃₃
1999 XP ₃₃	14.9	0.15	20000226	51.34687	332.21474	105.13921	5.27882	0.1366231	2.3301657	67	1	120 days	0.50	M-v	4	Williams	39558	1999 XP ₃₃
1999 XQ ₃₃	15.3	0.15	20000226	296.80582	103.10239	110.58156	27.34172	0.0653388	1.9177741	44	3	1988–2000	0.54	M-v	1	Williams	38836	1999 XQ ₃₃
1999 XS ₃₃	13.7	0.15	20000226	96.56663	282.56758	109.70196	7.38584	0.1152699	2.3499334	55	1	117 days	0.43	M-v	4	Williams	39558	1999 XS ₃₃
1999 XV ₃₃	14.5	0.15	20000226	100.51880	139.81339	244.29444	1.13473	0.1525635	2.1472990	78	3	1992–2000	0.60	M-v	3	Williams	39558	1999 XV ₃₃
1999 XX ₃₃	15.3	0.15	20000226	20.31417	5.25243	113.48257	2.89730	0.1856520	2.3299843	57	2	1997–2000	0.52	M-v	4	Williams	39558	1999 XX ₃₃
1999 XA ₃₄	12.9	0.15	20000226	304.85147	244.12711	317.70560	9.54823	0.0580566	3.0256869	92	1	150 days	0.52	M-v	4	Williams	39558	1999 XA ₃₄
1999 XB ₃₄	15.0	0.15	20000226	13.71589	37.87253	91.03438	4.15677	0.0931841	2.3055681	63	1	120 days	0.53	M-v	3	Williams	39558	1999 XB ₃₄
1999 XC ₃₄	13.8	0.15	20000226	118.82939	263.01601	108.49607	7.56773	0.1359446	2.3222070	95	3	1997–2000	0.57	M-v	2	Williams	39558	1999 XC ₃₄
1999 XD ₃₄	13.9	0.15	20000226	251.30686	298.04809	325.59096	5.80260	0.1148182	2.4098175	84	3	1990–2000	0.48	M-v	2	Williams	39559	1999 XD ₃₄
1999 XF ₃₄	13.2	0.15	20000226	343.70332	54.94020	121.12179	25.84236	0.2424473	2.7164993	60	1	164 days	0.47	M-v	3	Williams	39559	1999 XF ₃₄
1999 XH ₃₄	14.6	0.15	20000226	17.23732	359.20914	122.74182	6.63134	0.2082116	2.7353331	68	2	1998–2000	0.53	M-v	3	Williams	39559	1999 XH ₃₄
1999 XJ ₃₄	13.2	0.15	20000226	16.98438	20.26041	118.83623	13.86960	0.1407058	2.6464998	67	1	150 days	0.48	M-v	3	Williams	39559	1999 XJ ₃₄
1999 XK ₃₄	15.3	0.15	20000226	63.35090	195.21653	231.57940	2.16130	0.1284451	2.2364331	51	1	96 days	0.49	M-v	5	Williams	39559	1999 XK ₃₄
1999 XL ₃₄	15.2	0.15	20000226	41.79275	270.85429	179.25789	2.47917	0.1381014	2.3982925	71	4	1991–2000	0.62	M-v	2	Williams	39559	1999 XL ₃₄
1999 XN ₃₄	13.1	0.15	20000226	336.48995	252.52863	288.89899	18.92451	0.3074610	3.1131927	66	1	166 days	0.45	M-v	3	Williams	39559	1999 XN ₃₄
1999 XP ₃₄	14.1	0.15	20000226	310.97527	270.63943	296.10745	10.48536	0.1974021	2.5933178	69	1	110 days	0.42	M-v	4	Williams	39559	1999 XP ₃₄
1999 XR ₃₄	15.0	0.15	20000226	79.87659	172.79146	232.93881	1.33734	0.1145111	2.2396485	69	1	90 days	0.55	M-v	4	Williams	39559	1999 XR ₃₄
1999 XS ₃₄	14.7	0.15	20000226	336.88802	62.65378	104.75940	6.83395	0.0673554	2.4580965	45	1	97 days	0.55	M-v	4	Williams	38836	1999 XS ₃₄
1999 XT ₃₄	14.0	0.15	20000226	10.35301	191.80976	299.26416	9.96761	0.1076491	2.6265731	88	1	144 days	0.46	M-v	3	Williams	39559	1999 XT ₃₄
1999 XV ₃₄	14.5	0.15	20000226	52.00937	327.48249	115.31380	7.04629	0.1002431	2.3640332	51	1	97 days	0.41	M-v	4	Williams	39559	1999 XV ₃₄
1999 XA ₃₅	14.5	0.15	20000226	344.93498	61.71500	108.60892	5.67805	0.2234087	2.5714767	71	2	1998–2000	0.56	M-v	3	Williams	39559	1999 XA ₃₅
1999 XB ₃₅	12.7	0.15	20000226	260.86600	130.14531	124.38296	14.30541	0.0253435	3.1303283	52	1	118 days	0.42	M-v	4	Williams	39559	1999 XB ₃₅
1999 XL ₃₅	14.6	0.15	20000226	34.46037	333.69275	87.36751	15.44660	0.1819697	2.5847111	51	1	124 days	0.61	M-v	3	Williams	38836	1999 XL ₃₅
1999 XQ ₃₅	14.5	0.15	20000226	5.02992	84.61023	78.84004	28.33735	0.3710213	2.6244815	56	1	132 days	0.59	M-v	4	Williams	39559	1999 XQ ₃₅
1999 XW ₃₅	13.3	0.15	20000226	356.08725	38.64502	76.11195	16.66556	0.2007629	2.5413061	91	1	169 days	0.52	M-v	3	Williams	39559	1999 XW ₃₅
1999 XY ₃₅	13.9	0.15	20000226	79.35634	296.16362	86.03545	18.28321	0.1117077	2.7097763	33	1	135 days	0.62	M-v	4	Williams		1999 XY ₃₅
1999 XZ ₃₅	14.1	0.15	20000226	74.42446	98.06776	291.47912	8.66033	0.0979770	2.5619680	58	3	1992–2000	0.61	M-v	2	Williams	38837	1999 XZ ₃₅
1999 XB ₃₆	14.4	0.15	20000226	55.38861	94.07481	319.38563	6.12971	0.0947533	2.3423616	43	1	114 days	0.58	M-v	4	Williams	38837	1999 XB ₃₆
1999 XC ₃₆	14.4	0.15	20000226	37.67654	325.37194	107.92006	12.79882	0.1193055	2.3296755	51	1	124 days	0.58	M-v	4	Williams	38837	1999 XC ₃₆
1999 XD ₃₆	13.0	0.15	20000226	279.22969	123.26104	89.38066	13.97323	0.1050133	2.5808915	89	2	1990–2000	0.57	M-v	4	Williams	38837	1999 XD ₃₆
1999 XE ₃₆	14.2	0.15	20000226	1.63707	258.92849	219.34711	4.06755	0.2134743	2.8596554	52	3	1991–2000	0.58	M-v	3	Williams	39559	1999 XE ₃₆
1999 XM ₃₆	13.5	0.15	20000226	34.72786	10.18750	22.11685	15.07883	0.1228576	2.6396961	68	1	120 days	0.39	M-v	3	Williams	38837	1999 XM ₃₆
1999 XN ₃₆	13.3	0.15	20000226	87.31637	305.17231	18.70380	14.08743	0.2191059	2.5642820	44	1	118 days	0.61	M-v	4	Williams	38837	1999 XN ₃₆
1999 XO ₃₆	13.7	0.15	20000226	341.17757	96.86636	37.18400	22.88928	0.4147763	3.1425216	47	1	82 days	0.55	M-v	4	Williams	38137	1999 XO ₃₆
1999 XP ₃₆	13.4	0.15	20000226	39.52315	10.18199	21.03366	10.85440	0.1807278	2.5795842	68	4	1978–2000	0.54	M-v	2	Williams	38837	1999 XP ₃₆
1999 XQ ₃₆	14.0	0.15	20000226	17.80019	71.16497	356.25484	6.33528	0.0928666	2.2781071	66	2	1997–2000	0.62	M-v	3	Williams	38837	1999 XQ ₃₆
1999 XR ₃₆	12.8	0.15	20000226	212.88657	213.76371	358.31747	12.53128	0.0262432	2.8998536	55	2	1979–2000	0.68	M-v	3	Williams	38837	1999 XR ₃₆
1999 XS ₃₆	12.8	0.15	20000226	334.69418	90.30043	10.78612	10.81368	0.0516551	3.1508643	43	1	111 days	0.55	M-v	4	Williams	38837	1999 XS ₃₆
1999 XT ₃₆	14.0	0.15	20000226	24.77099	42.30836	12.28327	8.23056	0.1175477	2.5156328	46	2	1997–2000	0.68	M-v	3	Williams	38837	1999 XT ₃₆
1999 XU ₃₆	13.9	0.15	20000226	59.17141	98.25240	274.25792	13.40253	0.1253860	2.5370890	39	1	91 days	0.48	M-v	4	Williams	38837	1999 XU ₃₆
1999 XV ₃₆	14.5	0.15	20000226	63.46684	4.97446	7.25999	7.15273	0.1304791	2.3013902	49	1	118 days	0.49	M-v	4	Williams	38837	1999 XV ₃₆
1999 XW ₃₆	14.4	0.15	20000226	43.26646	30.39339	6.50262	8.74882	0.1086338	2.4292787	43	2	1997–2000	0.63	M-v	3	Williams	38137	1999 XW ₃₆
1999 XX ₃₆	14.2	0.15	20000226	20.90682	131.52798	287.29875	10.10106	0.2351726	2.7303650	54	1	91 days	0.38	M-v	3	Williams	38837	1999 XX ₃₆
1999 XA ₃₇	15.3	0.15	20000226	69.76314	170.23532	205.90775	5.96744	0.1714563	2.2967321	52	1	78 days	0.54	M-v	4	Williams	38137	1999 XA ₃₇
1999 XC ₃₇	14.7	0.15	20000226	64.16539	174.73950	191.10459	7.86618	0.2117653	2.2166775	74	2	1998–2000	0.52	M-v	3	Williams	39559	1999 XC ₃₇
1999 XD ₃₇	14.0	0.15	20000226	23.93354	321.96583	93.58061	13.00445	0.1859395	2.6670619	66	1	138 days	0.54	M-v	3	Williams	39559	1999 XD ₃₇
1999 XE ₃₇	12.3	0.15	20000226	72.28971	252.26833	101.29682	11.34074	0.1324266	3.0214652	66	1	137 days	0.47	M-v	4	Williams	39559	1999 XE ₃₇

1999 XF ₃₇	12.7	0.15	20000226	98.65194	175.05797	154.56028	15.14767	0.1280434	2.6102108	75	3	1990–2000	0.51	M-v	2	Williams	39559	1999 XF ₃₇
1999 XG ₃₇	14.3	0.15	20000226	40.89284	214.42181	179.16951	13.61757	0.1960528	2.6945393	60	2	1990–2000	0.64	M-v	4	Williams	38837	1999 XG ₃₇
1999 XH ₃₇	13.6	0.15	20000226	311.69239	334.49332	164.47129	14.81921	0.0339650	2.5902438	61	3	1990–2000	0.67	M-v	3	Williams	39559	1999 XH ₃₇
1999 XJ ₃₇	13.4	0.15	20000226	62.66275	275.73203	82.95738	16.46859	0.1965747	2.6713003	74	2	1998–2000	0.57	M-v	3	Williams	39559	1999 XJ ₃₇
1999 XK ₃₇	12.7	0.15	20000226	314.97485	22.36109	119.93253	15.61420	0.1223310	2.6025265	54	1	124 days	0.49	M-v	4	Williams	39559	1999 XK ₃₇
1999 XL ₃₇	13.3	0.15	20000226	21.08112	296.71589	126.41201	15.42817	0.0856839	2.6113573	63	1	148 days	0.56	M-v	3	Williams	39559	1999 XL ₃₇
1999 XN ₃₇	14.8	0.15	20000226	51.38304	21.60663	8.23795	6.90937	0.1483512	2.3330128	51	2	1981–2000	0.57	M-v	4	Williams	38585	1999 XN ₃₇
1999 XP ₃₇	13.7	0.15	20000226	336.37746	272.07755	223.59058	8.14205	0.0992585	2.7568332	55	3	1994–2000	0.54	M-v	3	Williams	39559	1999 XP ₃₇
1999 XY ₃₇	14.7	0.15	20000226	74.96036	295.50461	76.00646	7.00881	0.1106503	2.3594056	77	1	115 days	0.38	M-v	4	Williams	38837	1999 XY ₃₇
1999 XC ₃₈	15.5	0.15	20000226	59.20547	300.28045	70.35176	12.74698	0.2899313	2.5213865	47	2	1998–2000	0.61	M-v	4	Williams	37886	1999 XC ₃₈
1999 XE ₃₈	14.9	0.15	20000226	22.00567	32.82717	38.78261	7.36163	0.1570948	2.4063737	66	1	128 days	0.44	M-v	3	Williams	38837	1999 XE ₃₈
1999 XF ₃₈	14.3	0.15	20000226	15.19924	113.49864	325.20387	4.16813	0.1531125	2.5303746	57	1	121 days	0.51	M-v	3	Williams	38837	1999 XF ₃₈
1999 XL ₃₈	14.4	0.15	20000226	359.55613	112.65030	44.43419	6.59779	0.2501992	2.5314216	38	1	127 days	0.40	M-v	3	Williams		1999 XL ₃₈
1999 XQ ₃₈	13.6	0.15	20000226	54.09530	344.90294	78.36327	9.37491	0.2914978	2.6789492	47	1	157 days	0.52	M-v	4	Williams	39559	1999 XQ ₃₈
1999 XV ₃₈	15.3	0.15	20000226	11.60516	284.57875	158.63990	5.78653	0.2747210	2.5534428	55	1	115 days	0.47	M-v	3	Williams	38837	1999 XV ₃₈
1999 XA ₃₉	14.5	0.15	20000226	354.81467	240.72334	267.54231	12.86082	0.2197356	2.6755439	41	1	139 days	0.52	M-v	3	Williams	39559	1999 XA ₃₉
1999 XB ₃₉	13.9	0.15	20000226	47.38493	257.06752	126.94446	3.55072	0.1846641	2.6913207	78	1	114 days	0.63	M-v	4	Williams	38837	1999 XB ₃₉
1999 XD ₃₉	13.5	0.15	20000226	356.05169	254.32412	195.15470	4.74340	0.1253622	3.1374149	68	3	1993–2000	0.71	M-v	3	Williams	38837	1999 XD ₃₉
1999 XG ₃₉	14.7	0.15	20000226	50.69275	159.98639	226.56560	11.40601	0.1952351	2.6399511	50	3	1960–2000	0.55	M-v	3	Williams	37886	1999 XG ₃₉
1999 XK ₃₉	15.4	0.15	20000226	66.75493	222.35654	157.39267	3.36938	0.1213400	2.2495062	39	2	1997–2000	0.55	M-v	4	Williams	37887	1999 XK ₃₉
1999 XL ₃₉	15.1	0.15	20000226	332.99847	309.14425	193.40969	3.88975	0.1963283	2.3497669	53	2	1997–2000	0.56	M-v	4	Williams	37887	1999 XL ₃₉
1999 XN ₃₉	14.2	0.15	20000226	54.16915	178.23827	206.77955	6.86216	0.2018430	2.7544615	35	1	93 days	0.48	M-v	4	Williams	38138	1999 XN ₃₉
1999 XQ ₃₉	13.9	0.15	20000226	100.04088	91.22276	231.12075	13.78046	0.1826663	2.7355029	61	3	1990–2000	0.65	M-v	2	Williams	37887	1999 XQ ₃₉
1999 XA ₄₀	14.6	0.15	20000226	7.17421	258.19841	211.82454	6.01582	0.0976782	2.3920719	51	2	1998–2000	0.61	M-v	3	Williams	38837	1999 XA ₄₀
1999 XB ₄₀	13.5	0.15	20000226	132.33199	140.02656	189.49188	6.16797	0.1423373	2.4187348	46	2	1987–2000	0.59	M-v	4	Williams	38837	1999 XB ₄₀
1999 XG ₄₀	13.8	0.15	20000226	64.94596	8.55734	346.95244	1.97294	0.0796980	2.9325809	59	1	118 days	0.47	M-v	4	Williams	39559	1999 XG ₄₀
1999 XL ₄₀	14.7	0.15	20000226	164.55323	18.76211	248.44358	6.74189	0.0843029	2.3517128	47	1	70 days	0.66	M-v	4	Williams		1999 XL ₄₀
1999 XN ₄₀	15.0	0.15	20000226	32.90520	30.85830	3.05088	1.59215	0.0971062	2.9423758	40	1	67 days	0.59	M-v	5	Williams	39559	1999 XN ₄₀
1999 XO ₄₀	15.7	0.15	20000226	50.41306	334.09983	41.16683	3.76255	0.2004010	2.4104027	51	1	77 days	0.46	M-v	4	Williams	38138	1999 XO ₄₀
1999 XU ₄₀	16.3	0.15	20000226	27.88686	136.17949	267.07440	2.97634	0.3040035	2.5881931	45	1	69 days	0.51	M-v	4	Williams		1999 XU ₄₀
1999 XV ₄₀	13.2	0.15	20000226	42.80900	137.53079	239.55805	21.04205	0.1313510	3.1959719	53	1	93 days	0.40	M-v	3	Williams	38138	1999 XV ₄₀
1999 XX ₄₀	16.7	0.15	19991118	14.93261	349.03858	41.89505	4.00989	0.1659703	2.2775244	36	1	41 days	0.51			Williams		1999 XX ₄₀
1999 XB ₄₁	14.6	0.15	20000226	328.14863	231.96915	244.02903	8.13634	0.1096668	2.7617082	35	1	66 days	0.58	M-v	5	Williams		1999 XB ₄₁
1999 XE ₄₁	15.6	0.15	20000226	78.34800	353.72448	338.39932	1.99482	0.2417208	2.3791939	65	1	66 days	0.52	M-v	4	Williams	38838	1999 XE ₄₁
1999 XU ₄₁	15.6	0.15	19991029	35.20369	82.82111	270.21927	2.73126	0.2079460	2.5830512	39	1	53 days	0.62			Williams		1999 XU ₄₁
1999 XV ₄₁	16.7	0.15	19991118	16.97744	85.00729	299.09546	1.66041	0.2397745	2.6390387	38	1	39 days	0.71			Williams		1999 XV ₄₁
1999 XW ₄₁	16.2	0.15	20000226	29.94885	130.07511	266.56615	2.06657	0.2935893	2.7264193	58	2	1995–1999	0.60	M-v	3	Williams	37888	1999 XW ₄₁
1999 XY ₄₁	13.4	0.15	20000226	116.14534	314.23862	349.33690	0.55817	0.1016759	2.9559412	52	2	1988–1999	0.62	M-v	5	Williams	38838	1999 XY ₄₁
1999 XZ ₄₁	13.6	0.15	20000226	41.17331	150.76692	240.19369	12.57314	0.0967031	2.6071128	82	3	1978–2000	0.59	M-v	3	Williams	39559	1999 XZ ₄₁
1999 XD ₄₂	13.4	0.15	20000226	130.46841	242.69057	43.39623	7.38671	0.1337260	3.1841087	49	2	1991–1999	0.49	M-v	4	Williams	37889	1999 XD ₄₂
1999 XH ₄₂	15.9	0.15	20000226	9.18122	131.81691	308.54572	1.67735	0.1844980	2.3555903	57	1	85 days	0.52	M-v	4	Williams	38139	1999 XH ₄₂
1999 XO ₄₂	13.9	0.15	20000226	298.99930	132.13175	7.83261	1.46641	0.0507760	2.9364839	60	3	1996–1999	0.66	M-v	4	Williams	37889	1999 XO ₄₂
1999 XP ₄₂	14.7	0.15	20000226	185.18542	257.50696	350.80028	1.48446	0.1495209	2.5506507	33	2	1997–1999	0.62	M-v	5	Williams	37889	1999 XP ₄₂
1999 XR ₄₂	15.9	0.15	19991029	51.98440	72.94624	259.91683	1.55603	0.2124720	2.1413754	42	1	59 days	0.47			Williams		1999 XR ₄₂
1999 XT ₄₂	15.6	0.15	19991118	80.11721	68.37741	247.96311	4.97696	0.1552588	2.5853796	43	1	35 days	0.61			Williams		1999 XT ₄₂
1999 XU ₄₂	15.1	0.15	20000226	46.23804	139.00978	250.22823	2.90148	0.1270379	2.3532338	76	2	1998–2000	0.59	M-v	3	Williams	38586	1999 XU ₄₂
1999 XV ₄₂	16.0	0.15	20000226	53.43401	134.78255	238.05787	1.92053	0.1790595	2.5207996	31	2	1996–1999	0.51	M-v	5	Williams	38838	1999 XV ₄₂
1999 XX ₄₂	14.0	0.15	20000226	83.27242	71.33950	258.15868	4.39275	0.1579235	3.2092104	60	1	114 days	0.60	M-v	4	Williams	38838	1999 XX ₄₂
1999 XZ ₄₂	16.2	0.15	19991118	359.01865	33.30753	22.56318	2.11672	0.1776346	2.5219033	49	1	39 days	0.61			Williams		1999 XZ ₄₂
1999 XB ₄₃	15.6	0.15	20000226	38.54259	0.80641	36.54637	2.49555	0.2210973	2.3284572	43	1	78 days	0.42	M-v	4	Williams		1999 XB ₄₃
1999 XD ₄₃	13.9	0.15	20000226	26.51573	155.61315	250.47602	8.37663	0.0674887	2.9747865	55	1	84 days	0.50	M-v	4	Williams	38139	1999 XD ₄₃
1999 XF ₄₃	14.9	0.15	20000226	139.21279	25.85697	260.35604	2.50259	0.1662177	2.4161823	54	3	1990–1999	0.62	M-v	4	Williams	37889	1999 XF ₄₃
1999 XO ₄₃	15.4	0.15	20000226	42.42270	78.56743	313.66595	1.20498	0.1888892	2.3984632	48	1	100 days	0.52	M-v	4	Williams	38838	1999 XO ₄₃

1999 XP ₄₃	14.9	0.15	19991118	22.90859	358.87638	28.35177	4.41949	0.1038219	2.8003046	52	1	40 days	0.59		Williams		1999 XP ₄₃
1999 XQ ₄₃	15.1	0.15	20000226	120.21060	320.05283	347.32749	1.79607	0.1490836	2.2748028	61	2	1998–1999	0.59	M-v 4	Williams	37890	1999 XQ ₄₃
1999 XU ₄₃	14.6	0.15	20000226	52.76002	61.41626	315.40281	2.12486	0.1547153	2.5617861	86	2	1993–2000	0.61	M-v 4	Williams	38838	1999 XU ₄₃
1999 XD ₄₄	15.0	0.15	20000226	36.44564	358.65657	40.19341	3.82731	0.1659660	2.5384546	60	1	100 days	0.70	M-v 4	Williams	38838	1999 XD ₄₄
1999 XE ₄₄	15.3	0.15	20000226	116.56040	38.55381	271.78905	3.87037	0.1550102	2.3103397	51	3	1978–1999	0.66	M-v 3	Williams	37890	1999 XE ₄₄
1999 XF ₄₄	14.1	0.15	20000226	127.86650	253.44963	47.44137	7.03577	0.1332459	2.3916044	48	2	1998–1999	0.49	M-v 3	Williams	37890	1999 XF ₄₄
1999 XG ₄₄	17.3	0.15	19991118	26.94611	101.50125	268.08972	3.92503	0.2677954	2.2775694	33	1	33 days	0.79		Williams		1999 XG ₄₄
1999 XL ₄₄	13.8	0.15	20000226	321.35455	155.28671	323.41801	1.12699	0.0355185	2.8413778	65	3	1992–2000	0.65	M-v 3	Williams	38838	1999 XL ₄₄
1999 XU ₄₄	15.9	0.15	19991118	286.26240	85.43732	55.13149	6.06058	0.0964384	2.2911016	41	1	39 days	0.61		Williams		1999 XU ₄₄
1999 XV ₄₄	13.8	0.15	20000226	351.47346	197.66802	250.70601	4.16085	0.1211025	3.1602015	57	1	110 days	0.58	M-v 4	Williams	38838	1999 XV ₄₄
1999 XB ₄₅	14.5	0.15	20000226	159.90624	25.35208	243.02007	6.80451	0.1716089	2.5817274	46	3	1990–1999	0.76	M-v 4	Williams	39327	1999 XB ₄₅
1999 XF ₄₅	14.4	0.15	20000226	132.59962	229.84336	62.82932	13.43094	0.1634847	2.4380067	68	2	1998–1999	0.52	M-v 3	Williams	37891	1999 XF ₄₅
1999 XH ₄₅	15.3	0.15	20000226	67.76019	280.25231	83.30968	6.29522	0.1469216	2.2690086	49	1	78 days	0.51	M-v 4	Williams	38838	1999 XH ₄₅
1999 XJ ₄₅	14.6	0.15	20000226	31.96535	322.89303	67.48837	18.55617	0.2463157	3.1038117	41	1	79 days	0.56	M-v 4	Williams	38140	1999 XJ ₄₅
1999 XL ₄₅	15.4	0.15	20000226	97.16560	249.89276	68.42793	6.41094	0.2664109	2.2212550	44	1	88 days	0.55	M-v 4	Williams	38838	1999 XL ₄₅
1999 XM ₄₅	14.2	0.15	20000226	258.00570	126.64620	67.88901	3.30559	0.1218589	2.4314533	44	1	111 days	0.53	M-v 4	Williams	38838	1999 XM ₄₅
1999 XP ₄₅	13.6	0.15	20000226	104.91850	71.59214	247.41504	12.30467	0.0928102	3.0618144	55	2	1976–1999	0.49	M-v 4	Williams	37891	1999 XP ₄₅
1999 XT ₄₅	14.4	0.15	20000226	165.43852	325.70723	300.85983	1.91824	0.1938425	2.3533418	69	3	1991–1999	0.64	M-v 4	Williams	37891	1999 XT ₄₅
1999 XA ₄₆	14.8	0.15	20000226	123.87191	33.85776	265.48451	4.59101	0.2028252	2.3430609	62	2	1998–1999	0.52	M-v 4	Williams	37891	1999 XA ₄₆
1999 XE ₄₆	14.9	0.15	19991118	185.80401	185.33591	48.62296	5.59174	0.1084856	2.2204029	44	1	39 days	0.46		D Williams		1999 XE ₄₆
1999 XO ₄₆	15.6	0.15	20000226	35.96031	331.80267	64.03058	15.99838	0.1938749	2.7347307	52	1	90 days	0.58	M-v 4	Williams	38838	1999 XO ₄₆
1999 XQ ₄₆	15.8	0.15	20000226	80.52609	276.61462	70.68045	4.13195	0.1899188	2.2340607	55	1	81 days	0.45	M-v 4	Williams	38838	1999 XQ ₄₆
1999 XX ₄₆	14.3	0.15	19991118	350.99665	174.72500	256.84362	3.48621	0.1697200	3.0347925	31	1	24 days	0.42		Williams		1999 XX ₄₆
1999 XY ₄₆	13.8	0.15	20000226	345.18440	198.34164	264.59009	3.39089	0.1669457	3.2284787	53	1	104 days	0.66	M-v 4	Williams	38838	1999 XY ₄₆
1999 XB ₄₇	14.4	0.15	20000226	18.57950	161.24039	257.97113	7.57705	0.0753859	3.0092096	45	1	86 days	0.43	M-v 4	Williams	38140	1999 XB ₄₇
1999 XH ₄₇	13.5	0.15	20000226	59.50228	316.32147	55.77626	8.56573	0.0586043	3.2433367	62	2	1998–2000	0.55	M-v 3	Williams	38586	1999 XH ₄₇
1999 XL ₄₇	14.7	0.15	20000226	295.03936	265.25473	253.21902	5.20326	0.0527520	2.3216669	50	1	107 days	0.47	M-v 4	Williams	38838	1999 XL ₄₇
1999 XR ₄₇	15.6	0.15	20000226	18.63440	1.12970	64.29545	15.02385	0.2329477	2.6463280	80	1	88 days	0.48	M-v 3	Williams	38838	1999 XR ₄₇
1999 XZ ₄₇	15.3	0.15	20000226	22.36427	353.89220	74.09286	4.09197	0.0990546	2.2493189	59	2	1996–2000	0.48	M-v 3	Williams	38838	1999 XZ ₄₇
1999 XD ₄₈	16.4	0.15	20000226	3.46409	15.51040	78.50193	6.15591	0.1957668	2.3513964	59	1	67 days	0.44	M-v 4	Williams	38141	1999 XD ₄₈
1999 XZ ₄₈	14.2	0.15	20000226	33.76186	330.28141	63.65790	15.16172	0.2330152	3.1379062	75	1	112 days	0.50	M-v 3	Williams	38838	1999 XZ ₄₈
1999 XA ₄₉	13.5	0.15	20000226	252.48555	319.86076	249.95734	11.93078	0.2522563	2.6396719	57	2	1998–2000	0.62	M-v 3	Williams	37893	1999 XA ₄₉
1999 XB ₄₉	14.6	0.15	20000226	131.72623	52.69524	249.39731	7.22744	0.1241454	2.4358406	38	1	83 days	0.45	M-v 4	Williams	38141	1999 XB ₄₉
1999 XF ₄₉	15.8	0.15	20000226	24.45955	82.08276	340.31149	1.51866	0.1209657	2.4224715	54	2	1997–1999	0.46	M-v 3	Williams	37893	1999 XF ₄₉
1999 XL ₄₉	14.3	0.15	20000226	85.99997	94.38116	251.70217	9.96858	0.0812249	2.9844722	40	1	87 days	0.54	M-v 4	Williams	38838	1999 XL ₄₉
1999 XP ₅₀	15.7	0.15	20000226	91.24680	244.98532	84.58291	5.85666	0.2375604	2.3772466	39	2	1998–2000	0.60	M-v 4	Williams	37894	1999 XP ₅₀
1999 XT ₅₀	13.6	0.15	20000226	182.55927	177.03542	80.27133	8.84325	0.1728488	2.5729339	66	3	1977–2000	0.53	M-v 3	Williams	38839	1999 XT ₅₀
1999 XF ₅₁	15.4	0.15	19991118	348.49740	8.05113	69.59958	1.91818	0.1546602	3.1800050	26	1	29 days	0.60		D Williams		1999 XF ₅₁
1999 XJ ₅₁	15.0	0.15	20000226	25.31088	345.65966	69.51219	16.05688	0.2362870	2.7327202	69	1	112 days	0.53	M-v 3	Williams	38839	1999 XJ ₅₁
1999 XP ₅₁	13.3	0.15	20000226	196.25520	249.32399	356.20054	0.82806	0.0812991	3.0380505	61	3	1993–2000	0.62	M-v 4	Williams	38587	1999 XP ₅₁
1999 XD ₅₂	15.7	0.15	20000226	102.00607	273.35599	57.50639	5.16106	0.1797410	2.1748305	62	2	1998–2000	0.66	M-v 4	Williams	37894	1999 XD ₅₂
1999 XM ₅₂	13.6	0.15	20000226	89.61278	296.92574	54.53914	4.93498	0.0502572	2.6862000	57	1	134 days	0.53	M-v 4	Williams	39560	1999 XM ₅₂
1999 XD ₅₃	15.2	0.15	20000226	105.29906	256.43792	76.89041	2.66853	0.1135220	2.2697676	46	2	1998–2000	0.61	M-v 4	Williams	38839	1999 XD ₅₃
1999 XF ₅₃	16.0	0.15	20000226	351.18585	227.23864	237.90481	3.83319	0.1019195	2.4147175	35	2	1995–1999	0.63	M-v 5	Williams	37896	1999 XF ₅₃
1999 XX ₅₃	14.7	0.15	20000226	114.77627	146.03467	176.89430	2.45348	0.0607408	2.7101078	42	2	1994–2000	0.52	M-v 4	Williams	37896	1999 XX ₅₃
1999 XE ₅₄	14.2	0.15	20000226	35.68522	295.89587	104.31220	3.03647	0.1395020	3.0135450	50	3	1978–2000	0.61	M-v 3	Williams	38839	1999 XE ₅₄
1999 XF ₅₄	13.5	0.15	20000226	153.53222	117.09745	161.12457	1.98906	0.1436202	3.1055260	39	1	80 days	0.60	M-v 5	Williams	38839	1999 XF ₅₄
1999 XG ₅₄	13.3	0.15	20000226	260.65309	109.54753	76.91126	11.63370	0.0461327	2.9810458	59	1	101 days	0.55	M-v 4	Williams	38839	1999 XG ₅₄
1999 XH ₅₄	14.6	0.15	20000226	22.60360	290.83213	124.08583	2.18081	0.1850858	3.2048660	40	2	1996–1999	0.59	M-v 4	Williams	37897	1999 XH ₅₄
1999 XH ₅₅	13.5	0.15	20000226	79.53702	285.87242	70.73235	23.47485	0.0633020	3.1226081	41	1	75 days	0.55	M-v 4	Williams	38143	1999 XH ₅₅
1999 XH ₅₆	14.3	0.15	20000226	55.50031	297.04552	70.87386	16.05018	0.2340142	3.0707602	41	1	86 days	0.57	M-v 4	Williams	38143	1999 XH ₅₆
1999 XQ ₅₆	14.3	0.15	20000226	295.65839	99.61824	75.47029	5.78221	0.1491967	2.2542552	68	3	1982–2000	0.58	M-v 2	Williams	39560	1999 XQ ₅₆
1999 XQ ₅₇	13.8	0.15	20000226	170.41696	37.98020	233.39844	9.31018	0.0460247	3.0402011	44	3	1985–2000	0.60	M-v 3	Williams	37899	1999 XQ ₅₇

1999 XG ₅₈	14.6	0.15	20000226	90.37923	252.98354	80.95628	9.53303	0.2184837	2.6066188	37	2	1998–2000	0.72	M-v	4	Williams	38839	1999 XG ₅₈
1999 XT ₅₈	15.2	0.15	20000226	326.29290	291.62257	213.08285	1.57065	0.1610971	2.3217883	41	2	1997–2000	0.69	M-v	4	Williams	38839	1999 XT ₅₈
1999 XD ₅₉	14.6	0.15	20000226	328.05953	60.35522	70.72311	16.05555	0.0916892	2.6147795	45	2	1997–2000	0.53	M-v	3	Williams	38839	1999 XD ₅₉
1999 XT ₅₉	12.8	0.15	20000226	57.03307	306.25537	74.98413	11.60798	0.0933272	3.0443461	58	2	1995–2000	0.53	M-v	4	Williams	38839	1999 XT ₅₉
1999 XJ ₆₀	15.4	0.15	20000226	64.30548	302.55094	80.23796	7.09042	0.0950652	2.3146313	33	1	88 days	0.49	M-v	4	Williams	38839	1999 XJ ₆₀
1999 XQ ₆₀	15.3	0.15	20000226	343.68649	280.37249	200.17620	1.72075	0.1442889	2.4425792	34	2	1993–1999	0.54	M-v	5	Williams	38587	1999 XQ ₆₀
1999 XR ₆₀	14.2	0.15	20000226	88.03768	245.36467	103.50874	3.08137	0.1078442	2.7310664	33	2	1992–2000	0.53	M-v	5	Williams	38839	1999 XR ₆₀
1999 XS ₆₀	14.3	0.15	20000226	168.91291	141.60229	132.60887	2.00775	0.1956437	2.3655458	44	3	1991–2000	0.56	M-v	4	Williams	38839	1999 XS ₆₀
1999 XT ₆₀	14.3	0.15	20000226	323.61642	269.27674	238.38063	8.77522	0.2065242	2.7332905	39	1	86 days	0.48	M-v	4	Williams	38839	1999 XT ₆₀
1999 XV ₆₀	14.2	0.15	20000226	71.11070	162.49361	198.40450	2.10769	0.1375358	3.0607518	28	2	1993–2000	0.63	M-v	5	Williams	38839	1999 XV ₆₀
1999 XZ ₆₀	14.7	0.15	20000226	74.88541	114.13604	239.53085	10.22491	0.2041827	2.6381809	31	2	1990–2000	0.46	M-v	4	Williams	37901	1999 XZ ₆₀
1999 XA ₆₁	13.7	0.15	20000226	55.03877	295.18961	78.32904	15.27644	0.2281165	2.7952776	48	1	124 days	0.43	M-v	3	Williams	38839	1999 XA ₆₁
1999 XF ₆₁	16.0	0.15	20000226	55.85535	289.04689	97.88109	4.89783	0.1663173	2.2759964	39	1	88 days	0.53	M-v	4	Williams	38839	1999 XF ₆₁
1999 XK ₆₁	14.8	0.15	20000226	311.00869	61.76862	97.64978	5.17788	0.1670981	2.5541764	35	1	91 days	0.59	M-v	5	Williams	38839	1999 XK ₆₁
1999 XO ₆₁	16.0	0.15	20000226	57.82690	185.10745	192.69187	2.20335	0.2138149	2.4135066	30	1	64 days	0.47	M-v	4	Williams	38839	1999 XO ₆₁
1999 XQ ₆₁	14.2	0.15	20000226	93.91597	253.00239	90.52884	7.71654	0.1096921	2.7064008	31	1	63 days	0.40	M-v	4	Williams	38839	1999 XQ ₆₁
1999 XZ ₆₁	15.9	0.15	20000226	36.99318	71.81710	332.08057	1.73157	0.1601461	2.3987409	51	1	70 days	0.45	M-v	4	Williams		1999 XZ ₆₁
1999 XG ₆₄	15.1	0.15	20000226	317.06247	70.31818	80.16489	2.36330	0.1297301	2.4099210	29	2	1993–2000	0.40	M-v	5	Williams	37902	1999 XG ₆₄
1999 XR ₆₄	13.8	0.15	20000226	78.69684	268.32011	94.07852	1.97633	0.0545709	3.1256386	47	3	1994–2000	0.62	M-v	4	Williams	37902	1999 XR ₆₄
1999 XU ₆₄	13.9	0.15	20000226	3.00926	19.99062	70.30133	2.31269	0.1704753	3.1348966	39	2	1993–2000	0.65	M-v	4	Williams	38839	1999 XU ₆₄
1999 XX ₆₅	13.2	0.15	20000226	204.06086	359.42349	246.33943	5.75951	0.1075973	3.1504403	51	2	1998–2000	0.67	M-v	4	Williams	37903	1999 XX ₆₅
1999 XD ₆₆	14.7	0.15	20000226	258.22592	18.33318	188.96995	0.83352	0.1092521	2.4216174	37	3	1990–2000	0.59	M-v	4	Williams	37903	1999 XD ₆₆
1999 XF ₆₆	14.7	0.15	20000226	355.72554	30.98728	74.80472	9.30571	0.2364805	3.0426166	38	1	88 days	0.53	M-v	4	Williams	38839	1999 XF ₆₆
1999 XJ ₆₆	15.3	0.15	20000226	20.73840	357.47497	74.15290	8.20615	0.1039240	2.6548637	31	2	1997–2000	0.52	M-v	3	Williams	37904	1999 XJ ₆₆
1999 XK ₆₈	13.7	0.15	20000226	141.19335	210.33818	87.29546	13.78760	0.1696373	2.7298673	32	2	1993–2000	0.60	M-v	5	Williams	37905	1999 XK ₆₈
1999 XN ₆₈	14.2	0.15	20000226	152.87242	107.25554	192.33979	1.67899	0.0532532	2.4131689	45	2	1995–2000	0.54	M-v	4	Williams	39560	1999 XN ₆₈
1999 XU ₆₈	15.0	0.15	20000226	63.71964	292.24290	86.38754	5.53544	0.1827806	2.2916649	51	1	124 days	0.65	M-v	4	Williams	38840	1999 XU ₆₈
1999 XZ ₆₈	13.6	0.15	20000226	261.06782	112.14101	84.89595	7.01193	0.0389717	2.7404814	35	1	88 days	0.47	M-v	4	Williams	38840	1999 XZ ₆₈
1999 XN ₇₀	16.0	0.15	20000226	51.63637	264.30176	133.81913	2.16099	0.1252800	2.3820705	28	2	1995–2000	0.59	M-v	4	Williams	38840	1999 XN ₇₀
1999 XO ₇₀	14.2	0.15	20000226	88.12993	123.42434	228.43699	3.22232	0.1301585	2.7041205	46	4	1981–2000	0.57	M-v	1	Williams	38840	1999 XO ₇₀
1999 XR ₇₀	14.1	0.15	20000226	61.64271	190.50100	177.94793	2.04901	0.2109206	3.1575652	33	1	64 days	0.46	M-v	5	Williams	38840	1999 XR ₇₀
1999 XU ₇₀	14.3	0.15	20000226	53.84034	198.57513	195.64841	1.64959	0.0773933	2.8338610	33	2	1998–2000	0.61	M-v	4	Williams	37906	1999 XU ₇₀
1999 XF ₇₁	14.3	0.15	20000226	148.51421	205.70725	92.56124	8.15769	0.1588541	2.2519162	54	2	1998–2000	0.51	M-v	3	Williams	39560	1999 XF ₇₁
1999 XK ₇₁	14.6	0.15	20000226	22.75085	255.37896	177.46014	1.66436	0.1177231	2.5769168	41	1	113 days	0.50	M-v	3	Williams	38840	1999 XK ₇₁
1999 XS ₇₁	12.7	0.15	20000226	50.42723	297.80771	90.70655	6.74192	0.1622753	3.2023646	47	1	122 days	0.52	M-v	4	Williams	39560	1999 XS ₇₁
1999 XU ₇₁	15.2	0.15	20000226	346.77176	39.59064	86.38914	1.57801	0.1637999	2.3464162	39	1	82 days	0.55	M-v	4	Williams	38840	1999 XU ₇₁
1999 XE ₇₂	15.3	0.15	20000226	16.20686	5.45045	80.48098	10.82248	0.1429962	2.3678128	43	1	124 days	0.60	M-v	3	Williams	38840	1999 XE ₇₂
1999 XH ₇₂	13.0	0.15	20000226	52.98099	314.46453	80.45488	11.61226	0.0925290	2.9955942	52	1	144 days	0.53	M-v	4	Williams	39560	1999 XH ₇₂
1999 XJ ₇₂	14.5	0.15	20000226	107.48638	248.05157	82.33917	2.32607	0.2032011	2.3915738	39	3	1991–2000	0.52	M-v	3	Williams	37908	1999 XJ ₇₂
1999 XP ₇₂	14.4	0.15	20000226	54.26956	312.25014	81.29506	14.94416	0.1174764	2.6594503	41	1	87 days	0.52	M-v	4	Williams	38840	1999 XP ₇₂
1999 XS ₇₂	13.3	0.15	20000226	118.10205	239.62371	84.24841	10.97748	0.1146073	3.0157760	45	3	1997–2000	0.55	M-v	3	Williams	38840	1999 XS ₇₂
1999 XZ ₇₂	15.0	0.15	20000226	40.75277	158.72092	249.05196	6.39649	0.1763603	2.5945457	46	1	117 days	0.46	M-v	4	Williams	39560	1999 XZ ₇₂
1999 XO ₇₃	13.9	0.15	20000226	91.34563	274.19933	85.68918	14.68637	0.0756724	2.5599186	39	1	112 days	0.52	M-v	4	Williams	38840	1999 XO ₇₃
1999 XV ₇₃	14.8	0.15	20000226	127.93238	237.89580	88.02681	5.20686	0.1002280	2.2149076	46	2	1998–2000	0.65	M-v	4	Williams	38840	1999 XV ₇₃
1999 XY ₇₃	14.3	0.15	20000226	31.44839	180.78926	244.32443	1.40578	0.2019640	2.3647477	59	2	1988–2000	0.57	M-v	3	Williams	39560	1999 XY ₇₃
1999 XZ ₇₃	14.4	0.15	20000226	24.03516	346.33926	84.48010	3.39141	0.1917993	2.7593610	43	1	122 days	0.38	M-v	3	Williams	38840	1999 XZ ₇₃
1999 XG ₇₄	14.8	0.15	20000226	352.50786	244.82359	238.23786	3.20236	0.2424724	2.6445687	62	1	144 days	0.52	M-v	4	Williams	39560	1999 XG ₇₄
1999 XR ₇₄	15.4	0.15	20000226	42.11919	167.81408	229.69867	3.51639	0.3000560	2.5875994	50	1	114 days	0.48	M-v	4	Williams	38840	1999 XR ₇₄
1999 XW ₇₄	14.0	0.15	20000226	81.72219	97.21675	256.77037	7.77028	0.2129749	2.7277100	42	4	1985–2000	0.67	M-v	1	Williams	39328	1999 XW ₇₄
1999 XJ ₇₅	15.0	0.15	20000226	48.96471	299.17959	87.57451	9.37681	0.2813082	2.7719234	33	1	124 days	0.47	M-v	4	Williams	38840	1999 XJ ₇₅
1999 XU ₇₅	13.8	0.15	20000226	27.82590	337.09610	85.11580	11.93392	0.2163935	3.1421336	57	1	148 days	0.40	M-v	3	Williams	39560	1999 XU ₇₅
1999 XX ₇₅	14.6	0.15	20000226	9.05805	357.91504	98.28293	5.40017	0.0590307	2.4558877	27	1	88 days	0.54	M-v	4	Williams	38840	1999 XX ₇₅
1999 XY ₇₅	13.5	0.15	20000226	332.44350	357.88050	144.44600	2.09456	0.1818515	3.2051972	29	1	134 days	0.45	M-v	4	Williams	39560	1999 XY ₇₅

1999 XR ₇₆	14.1	0.15	20000226	81.52573	281.65343	91.66468	6.85293	0.0677498	2.8176277	47	3	1997–2000	0.47	M-v	3	Williams	38588	1999 XR ₇₆
1999 XU ₇₇	13.6	0.15	20000226	44.04487	311.46904	92.85415	8.16883	0.2174128	2.7933662	48	1	151 days	0.44	M-v	4	Williams	39560	1999 XU ₇₇
1999 XB ₇₈	14.7	0.15	20000226	28.63224	159.02770	257.04944	4.28363	0.2419485	2.6335935	61	3	1982–2000	0.74	M-v	2	Williams	39560	1999 XB ₇₈
1999 XE ₇₈	15.2	0.15	20000226	5.32416	27.96427	69.37811	3.02087	0.1792563	2.3568930	42	1	82 days	0.36	M-v	4	Williams	38841	1999 XE ₇₈
1999 XJ ₇₈	14.5	0.15	20000226	209.10351	172.49982	75.53293	7.38184	0.1222040	2.3379942	35	1	78 days	0.69	M-v	5	Williams	38841	1999 XJ ₇₈
1999 XR ₈₁	13.5	0.15	20000226	359.14079	19.08044	85.46610	18.57192	0.1724720	3.1171706	55	3	1990–2000	0.53	M-v	2	Williams	38589	1999 XR ₈₁
1999 XS ₈₂	14.1	0.15	20000226	359.36800	18.09040	94.86936	13.89057	0.1095752	2.5450723	50	1	124 days	0.46	M-v	3	Williams	38841	1999 XS ₈₂
1999 XT ₈₂	13.7	0.15	20000226	68.42248	122.31011	259.03873	6.70930	0.1617554	2.9899002	59	2	1998–2000	0.56	M-v	3	Williams	38841	1999 XT ₈₂
1999 XU ₈₂	13.5	0.15	20000226	338.65274	230.84539	265.61077	8.00652	0.0981289	2.7811741	78	2	1998–2000	0.60	M-v	3	Williams	39560	1999 XU ₈₂
1999 XX ₈₂	13.5	0.15	20000226	3.54503	208.73985	257.28392	8.93162	0.1490650	3.0621801	61	2	1998–2000	0.67	M-v	3	Williams	39560	1999 XX ₈₂
1999 XD ₈₃	14.0	0.15	20000226	41.76371	318.97525	99.66488	6.58794	0.1858853	2.5430450	38	1	117 days	0.50	M-v	4	Williams		1999 XD ₈₃
1999 XG ₈₃	12.2	0.15	20000226	47.45684	302.80030	97.39152	19.49439	0.2508263	3.0965220	63	1	152 days	0.53	M-v	3	Williams	39560	1999 XG ₈₃
1999 XK ₈₃	13.9	0.15	20000226	354.58222	225.83883	260.45594	1.48807	0.1580108	2.5217549	59	3	1994–2000	0.61	M-v	2	Williams	38841	1999 XK ₈₃
1999 XQ ₈₃	13.9	0.15	20000226	143.49445	197.70697	116.77792	3.33492	0.2254095	2.3767485	51	3	1991–2000	0.80	M-v	4	Williams	38841	1999 XQ ₈₃
1999 XU ₈₃	14.9	0.15	20000226	359.66702	13.17745	108.95016	1.94634	0.1680975	2.4363695	52	1	101 days	0.53	M-v	4	Williams	38841	1999 XU ₈₃
1999 XC ₈₄	14.0	0.15	20000226	186.24626	186.54188	102.21662	12.59435	0.1192436	2.3074630	44	1	140 days	0.46	M-v	3	Williams	39560	1999 XC ₈₄
1999 XH ₈₄	14.3	0.15	20000226	79.26953	278.29346	93.52912	13.42528	0.2079368	2.6258982	37	2	1998–2000	0.80	M-v	4	Williams	38589	1999 XH ₈₄
1999 XJ ₈₄	14.3	0.15	20000226	0.32440	25.03371	96.13495	13.43143	0.1691358	2.5851540	55	1	113 days	0.54	M-v	3	Williams	38841	1999 XJ ₈₄
1999 XK ₈₄	14.6	0.15	20000226	27.16820	194.91012	254.28718	6.22751	0.0687893	2.2754272	49	2	1977–2000	0.60	M-v	3	Williams	39560	1999 XK ₈₄
1999 XM ₈₄	13.8	0.15	20000226	293.40681	286.97827	263.24785	4.53363	0.0502459	2.3421081	59	3	1994–2000	0.40	M-v	3	Williams	38841	1999 XM ₈₄
1999 XN ₈₄	14.2	0.15	20000226	35.33987	187.56673	246.84766	1.97384	0.1494254	2.4263466	53	3	1993–2000	0.49	M-v	4	Williams	38841	1999 XN ₈₄
1999 XO ₈₄	15.0	0.15	20000226	21.33941	352.31192	105.27635	4.21700	0.0657140	2.1880983	55	1	101 days	0.59	M-v	4	Williams	38841	1999 XO ₈₄
1999 XS ₈₄	14.0	0.15	20000226	11.29383	193.27902	271.93292	6.30446	0.1352697	2.6625243	52	2	1998–2000	0.57	M-v	3	Williams	38841	1999 XS ₈₄
1999 XX ₈₄	14.5	0.15	20000226	62.43380	297.36306	102.02909	14.36206	0.1519329	2.5744180	41	1	86 days	0.48	M-v	4	Williams	38841	1999 XX ₈₄
1999 XE ₈₅	13.0	0.15	20000226	294.86320	79.62774	110.42533	11.46796	0.0781935	2.9939101	43	1	124 days	0.55	M-v	4	Williams	38841	1999 XE ₈₅
1999 XF ₈₅	14.8	0.15	20000226	95.20004	63.55068	297.08878	1.46563	0.1986687	2.2668820	44	3	1961–2000	0.61	M-v	3	Williams	38841	1999 XF ₈₅
1999 XG ₈₅	13.6	0.15	20000226	36.47293	334.19447	91.77633	13.14333	0.2339639	2.5760326	61	1	165 days	0.51	M-v	3	Williams	38841	1999 XG ₈₅
1999 XN ₈₅	14.6	0.15	20000226	94.76409	265.71213	95.52519	9.18224	0.2049362	2.3048883	42	1	124 days	0.61	M-v	4	Williams	38842	1999 XN ₈₅
1999 XQ ₈₅	15.1	0.15	20000226	46.24474	299.97926	114.57420	3.66115	0.2369403	2.4141158	38	1	82 days	0.42	M-v	4	Williams	38842	1999 XQ ₈₅
1999 XR ₈₅	14.5	0.15	20000226	350.84025	307.53493	190.96946	1.60297	0.1545162	2.3918700	61	4	1993–2000	0.51	M-v	1	Williams	39560	1999 XR ₈₅
1999 XS ₈₅	13.4	0.15	20000226	61.96121	289.40673	107.45688	13.80473	0.1777750	3.0407064	49	1	175 days	0.47	M-v	4	Williams	38842	1999 XS ₈₅
1999 XA ₈₆	12.5	0.15	20000226	271.60608	309.36883	277.46682	9.33945	0.1921638	3.1251933	43	1	110 days	0.52	M-v	5	Williams	38842	1999 XA ₈₆
1999 XC ₈₆	14.4	0.15	20000226	66.78505	112.79109	273.65949	2.84270	0.2440769	2.5418569	54	3	1994–2000	0.57	M-v	2	Williams	39328	1999 XC ₈₆
1999 XK ₈₆	13.3	0.15	20000226	94.71319	83.33431	286.10647	9.20034	0.1329330	2.5559852	58	3	1986–2000	0.55	M-v	3	Williams	38842	1999 XK ₈₆
1999 XO ₈₆	15.2	0.15	20000226	46.32530	230.68494	190.14582	1.79317	0.1966220	2.3603025	55	3	1995–2000	0.63	M-v	3	Williams	39560	1999 XO ₈₆
1999 XQ ₈₆	12.6	0.15	20000226	81.41989	270.87887	103.24859	13.08668	0.2200136	2.6073726	100	3	1977–2000	0.60	M-v	1	Williams	38842	1999 XQ ₈₆
1999 XR ₈₆	13.4	0.15	20000226	112.38754	251.21017	107.06692	16.26494	0.0806459	3.1781351	42	1	66 days	0.45	M-v	4	Williams	38842	1999 XR ₈₆
1999 XS ₈₆	14.5	0.15	20000226	66.89236	297.01967	103.04818	4.28167	0.1590448	2.3076971	73	2	1986–2000	0.58	M-v	4	Williams	38842	1999 XS ₈₆
1999 XU ₈₆	13.1	0.15	20000226	80.42246	106.06832	282.77736	7.62910	0.0977441	3.0628716	72	3	1997–2000	0.65	M-v	3	Williams	38842	1999 XU ₈₆
1999 XV ₈₆	12.8	0.15	20000226	135.95482	53.56726	285.70752	7.21014	0.0660460	2.6003625	116	2	1998–2000	0.53	M-v	3	Williams	38842	1999 XV ₈₆
1999 XX ₈₆	13.2	0.15	20000226	63.43457	106.87887	286.25310	8.56486	0.2229159	2.7805932	102	2	1998–2000	0.53	M-v	3	Williams	38842	1999 XX ₈₆
1999 XY ₈₆	13.0	0.15	20000226	155.54653	213.79348	102.77783	15.13141	0.1763799	2.5782127	74	1	113 days	0.49	M-v	4	Williams	38842	1999 XY ₈₆
1999 XZ ₈₆	13.8	0.15	20000226	345.96307	222.03062	285.66555	10.99048	0.1883082	2.6581684	83	2	1998–2000	0.53	M-v	3	Williams	39560	1999 XZ ₈₆
1999 XA ₈₇	13.9	0.15	20000226	68.61061	112.71372	278.22068	12.00013	0.2120983	2.6912860	47	1	119 days	0.52	M-v	4	Williams	38842	1999 XA ₈₇
1999 XC ₈₇	13.1	0.15	20000226	67.39359	296.26752	106.57127	12.63209	0.1123984	3.0063514	84	1	175 days	0.52	M-v	4	Williams	38842	1999 XC ₈₇
1999 XN ₈₇	13.6	0.15	20000226	24.83506	343.62262	90.16874	18.48887	0.1721358	3.0515918	55	1	124 days	0.51	M-v	3	Williams	38842	1999 XN ₈₇
1999 XO ₈₇	14.4	0.15	20000226	266.07954	319.32228	252.28995	6.08467	0.0577342	2.2557082	42	3	1997–2000	0.53	M-v	2	Williams	39560	1999 XO ₈₇
1999 XY ₈₇	14.2	0.15	20000226	295.30154	303.41275	250.62641	4.31102	0.1434924	2.3582134	40	3	1993–2000	0.75	M-v	3	Williams	38589	1999 XY ₈₇
1999 XA ₈₈	13.5	0.15	20000226	286.12339	82.88498	112.94988	6.84297	0.0818183	2.3891962	54	2	1998–2000	0.62	M-v	3	Williams	39560	1999 XA ₈₈
1999 XC ₈₈	14.3	0.15	20000226	58.33593	131.19716	255.32373	7.35179	0.2573962	2.6880364	36	1	87 days	0.48	M-v	4	Williams	38149	1999 XC ₈₈
1999 XR ₈₈	13.9	0.15	20000226	246.45005	142.10744	94.18811	7.16055	0.0938789	2.3845731	38	3	1993–2000	0.58	M-v	2	Williams	38590	1999 XR ₈₈
1999 XO ₈₉	13.3	0.15	20000226	206.20388	7.23375	265.08729	8.15941	0.1195762	2.7830979	48	3	1994–2000	0.56	M-v	3	Williams	38842	1999 XO ₈₉
1999 XJ ₉₀	13.9	0.15	20000226	335.57310	85.76479	78.64823	2.75864	0.2801020	3.0312326	54	1	173 days	0.62	M-v	4	Williams	39560	1999 XJ ₉₀

1999 XM ₉₀	12.5	0.15	20000226	63.31929	119.77525	284.22042	14.88339	0.0887160	3.1885998	53	3	1987–2000	0.77	M-v	3	Williams	38843	1999 XM ₉₀
1999 XS ₉₀	14.5	0.15	20000226	306.15931	80.52238	101.57705	8.03911	0.0671482	2.2923120	56	1	151 days	0.53	M-v	4	Williams	39560	1999 XS ₉₀
1999 XT ₉₀	13.6	0.15	20000226	109.95805	84.64020	269.10153	13.28160	0.1371723	2.6141611	53	2	1998–2000	0.60	M-v	3	Williams	38843	1999 XT ₉₀
1999 XF ₉₁	13.7	0.15	20000226	304.56139	66.66332	119.59121	2.55423	0.1010172	3.0889900	52	3	1995–2000	0.61	M-v	4	Williams	39560	1999 XF ₉₁
1999 XG ₉₁	11.1	0.15	20000226	81.63840	270.75791	108.20421	26.84632	0.1296220	5.2319956	32	1	124 days	0.56	M-v	4	Williams	38843	1999 XG ₉₁
1999 XJ ₉₁	13.9	0.15	20000226	42.90365	128.30553	305.14808	0.99996	0.0579089	2.8421083	74	2	1998–2000	0.54	M-v	3	Williams	38843	1999 XJ ₉₁
1999 XK ₉₁	15.0	0.15	20000226	121.65668	245.92168	95.34876	5.53131	0.2103365	2.1465651	36	1	66 days	0.53	M-v	5	Williams	38843	1999 XK ₉₁
1999 XN ₉₁	13.4	0.15	20000226	187.17807	138.60627	155.25046	2.32904	0.0559946	3.0215011	44	3	1996–2000	0.76	M-v	3	Williams	39561	1999 XN ₉₁
1999 XQ ₉₁	13.6	0.15	20000226	130.27576	196.52143	139.05648	2.54350	0.2068410	2.4811011	61	2	1998–2000	0.56	M-v	3	Williams	38843	1999 XQ ₉₁
1999 XR ₉₁	13.7	0.15	20000226	182.79231	193.18456	106.38197	11.40883	0.1064622	2.5156371	84	1	113 days	0.56	M-v	4	Williams	38843	1999 XR ₉₁
1999 XT ₉₁	14.0	0.15	19991228	192.66880	345.58933	295.26793	14.15969	0.1514420	2.5607030	37	1	58 days	0.51			Williams		1999 XT ₉₁
1999 XE ₉₃	13.4	0.15	20000226	251.08856	329.32513	277.94902	9.24588	0.1397754	2.5533646	40	1	114 days	0.49	M-v	4	Williams	38843	1999 XE ₉₃
1999 XG ₉₃	12.6	0.15	20000226	40.56526	158.31865	281.26572	7.64752	0.0725589	2.8052315	100	2	1998–2000	0.57	M-v	3	Williams	38843	1999 XG ₉₃
1999 XH ₉₃	15.3	0.15	20000226	31.24359	340.22476	105.45685	5.84393	0.2100309	2.3477639	60	1	113 days	0.54	M-v	4	Williams	38843	1999 XH ₉₃
1999 XJ ₉₃	13.9	0.15	20000226	4.01017	208.48463	278.85476	11.73683	0.2517918	2.5819339	66	1	155 days	0.46	M-v	3	Williams	39561	1999 XJ ₉₃
1999 XK ₉₃	14.3	0.15	20000226	87.99302	284.94754	102.93274	10.22730	0.0766657	2.5617706	60	1	124 days	0.45	M-v	4	Williams	38843	1999 XK ₉₃
1999 XL ₉₃	14.9	0.15	20000226	53.67544	333.10071	89.33068	5.41693	0.1249942	2.1766256	74	1	134 days	0.63	M-v	4	Williams	39561	1999 XL ₉₃
1999 XO ₉₃	15.1	0.15	20000226	13.38603	30.01334	83.71781	6.33193	0.1035168	2.2892621	57	1	140 days	0.61	M-v	3	Williams	39561	1999 XO ₉₃
1999 XP ₉₃	12.3	0.15	20000226	112.31416	260.43985	101.26317	17.75690	0.0912639	3.1701672	78	1	177 days	0.61	M-v	4	Williams	38844	1999 XP ₉₃
1999 XQ ₉₃	13.3	0.15	20000226	59.10451	306.49847	100.93358	14.42208	0.1898028	2.5905504	67	1	164 days	0.53	M-v	4	Williams	38844	1999 XQ ₉₃
1999 XS ₉₃	14.3	0.15	20000226	71.16427	293.35870	99.88059	5.86484	0.1892796	2.6205973	58	1	112 days	0.44	M-v	4	Williams	38844	1999 XS ₉₃
1999 XT ₉₃	12.8	0.15	20000226	61.16374	124.67591	291.25058	13.19040	0.0716061	3.1890616	54	2	1997–2000	0.58	M-v	3	Williams	38844	1999 XT ₉₃
1999 XW ₉₃	13.2	0.15	20000226	263.00482	119.61008	113.91544	14.36457	0.1006188	2.6293380	65	1	175 days	0.47	M-v	4	Williams	38844	1999 XW ₉₃
1999 XX ₉₃	13.9	0.15	20000226	57.57377	290.59514	110.44613	14.57162	0.2478660	2.9655722	67	1	86 days	0.45	M-v	4	Williams	38844	1999 XX ₉₃
1999 XZ ₉₃	13.3	0.15	20000226	83.70100	280.07060	105.23196	15.70899	0.1521784	2.6433256	58	1	175 days	0.48	M-v	4	Williams	38844	1999 XZ ₉₃
1999 XD ₉₄	10.8	0.15	20000226	74.52661	100.89563	304.52597	11.70589	0.0409817	5.2448930	43	3	1988–2000	0.61	M-v	3	Williams	38591	1999 XD ₉₄
1999 XF ₉₄	14.9	0.15	20000226	74.24081	275.94489	104.82289	22.96702	0.2989170	2.2776209	39	1	111 days	0.44	M-v	4	Williams	38844	1999 XF ₉₄
1999 XG ₉₄	14.3	0.15	20000226	148.72943	35.46371	296.69023	6.04520	0.1316198	2.3579945	56	2	1998–2000	0.69	M-v	3	Williams	39561	1999 XG ₉₄
1999 XH ₉₄	15.4	0.15	20000226	25.34472	173.54834	281.30738	4.47829	0.2360622	2.6132749	42	1	67 days	0.56	M-v	5	Williams	38844	1999 XH ₉₄
1999 XM ₉₄	14.8	0.15	20000226	356.90174	231.28592	270.47112	1.16152	0.1712322	2.3293338	65	1	139 days	0.48	M-v	3	Williams	39561	1999 XM ₉₄
1999 XN ₉₄	14.1	0.15	20000226	80.13957	281.40545	111.42500	15.45059	0.1695699	2.5384660	44	1	86 days	0.50	M-v	4	Williams	38844	1999 XN ₉₄
1999 XO ₉₄	13.4	0.15	20000226	345.03894	40.86282	113.72303	17.69956	0.1618424	3.1403164	46	1	117 days	0.50	M-v	4	Williams	38844	1999 XO ₉₄
1999 XR ₉₄	14.5	0.15	20000226	326.73867	82.18931	94.62226	6.26880	0.0887513	2.2752796	52	1	138 days	0.53	M-v	4	Williams	38844	1999 XR ₉₄
1999 XS ₉₄	13.3	0.15	20000226	355.15184	31.38248	111.14629	23.13371	0.1371887	3.1443972	45	1	169 days	0.51	M-v	3	Williams	38844	1999 XS ₉₄
1999 XU ₉₄	14.7	0.15	20000226	14.71587	79.13171	41.54306	1.79569	0.1544210	2.5386953	68	1	135 days	0.53	M-v	3	Williams	39561	1999 XU ₉₄
1999 XW ₉₄	13.2	0.15	20000226	184.81748	311.69917	22.43738	5.61244	0.0736703	2.7387883	74	3	1993–2000	0.59	M-v	3	Williams	39328	1999 XW ₉₄
1999 XZ ₉₄	14.5	0.15	20000226	339.78799	67.71129	102.07234	4.58477	0.1897028	2.6065539	68	1	138 days	0.46	M-v	4	Williams	39561	1999 XZ ₉₄
1999 XA ₉₅	14.2	0.15	20000226	57.68556	288.72080	96.40144	9.71188	0.2311787	2.3773569	80	3	1996–2000	0.51	M-v	2	Williams	38844	1999 XA ₉₅
1999 XB ₉₅	12.4	0.15	20000226	107.21028	289.59119	88.21673	18.55282	0.1839267	3.1644034	63	3	1994–2000	0.59	M-v	3	Williams	39561	1999 XB ₉₅
1999 XD ₉₅	13.7	0.15	20000226	139.44264	13.87660	258.85195	10.82486	0.0474726	3.0724828	62	2	1978–2000	0.67	M-v	4	Williams	37922	1999 XD ₉₅
1999 XM ₉₅	14.8	0.15	20000226	32.25245	54.31154	22.31406	5.80243	0.1054016	2.3131572	37	1	121 days	0.65	M-v	4	Williams	38844	1999 XM ₉₅
1999 XR ₉₅	12.8	0.15	20000226	299.01296	290.45484	263.10013	12.34505	0.1081344	2.5749683	51	1	174 days	0.51	M-v	4	Williams	38844	1999 XR ₉₅
1999 XS ₉₅	13.8	0.15	20000226	351.50413	75.26045	52.75625	8.42366	0.1701735	2.7560975	42	3	1994–2000	0.57	M-v	3	Williams	37922	1999 XS ₉₅
1999 XT ₉₅	14.3	0.15	20000226	4.32897	36.16175	74.91010	12.54916	0.1495828	2.6646997	42	1	99 days	0.43	M-v	3	Williams	38844	1999 XT ₉₅
1999 XZ ₉₅	13.4	0.15	20000226	65.94076	313.53464	75.93565	15.53441	0.1537832	3.1263412	47	3	1982–2000	0.63	M-v	2	Williams	38844	1999 XZ ₉₅
1999 XB ₉₆	14.3	0.15	20000226	79.39148	346.48993	25.17280	6.05063	0.2184011	2.2840562	38	1	178 days	0.58	M-v	4	Williams	38844	1999 XB ₉₆
1999 XF ₉₆	15.1	0.15	20000226	45.31900	117.66925	275.28218	4.32278	0.2397223	2.3497609	47	1	151 days	0.49	M-v	4	Williams	39561	1999 XF ₉₆
1999 XG ₉₆	14.4	0.15	20000226	290.09908	116.91925	52.49685	7.43564	0.0605623	2.3302889	43	1	74 days	0.52	M-v	4	Williams	38151	1999 XG ₉₆
1999 XH ₉₆	14.9	0.15	20000226	55.48841	110.21962	276.13765	4.06182	0.1803967	2.2716465	56	1	121 days	0.41	M-v	4	Williams	38844	1999 XH ₉₆
1999 XJ ₉₆	15.7	0.15	20000226	42.93003	134.51040	271.54950	3.13345	0.1655806	2.3149064	40	1	112 days	0.63	M-v	4	Williams	39561	1999 XJ ₉₆
1999 XL ₉₆	14.7	0.15	20000226	5.56476	25.23733	66.79471	12.60823	0.1412891	2.6627731	47	2	1992–2000	0.56	M-v	3	Williams	38844	1999 XL ₉₆
1999 XN ₉₆	15.0	0.15	20000226	37.34666	146.32824	268.77402	2.56218	0.1537026	2.3171504	67	3	1990–2000	0.58	M-v	3	Williams	38844	1999 XN ₉₆
1999 XT ₉₆	13.0	0.15	20000226	354.30338	208.68874	259.80873	19.39323	0.2326181	3.1951411	69	1	152 days	0.47	M-v	3	Williams	39561	1999 XT ₉₆

1999 XG ₉₇	14.7	0.15	20000226	101.71944	72.19102	262.30619	4.20234	0.2084099	2.3099408	53	3	1997–2000	0.61	M-v	2	Williams	38845	1999 XG ₉₇
1999 XM ₉₇	14.8	0.15	20000226	43.10978	349.18787	65.46020	4.51824	0.0762759	2.3056668	45	1	122 days	0.44	M-v	4	Williams	38845	1999 XM ₉₇
1999 XQ ₉₇	13.9	0.15	20000226	246.43396	158.15081	62.12776	6.93827	0.0776102	2.3861787	37	1	84 days	0.52	M-v	5	Williams	38845	1999 XQ ₉₇
1999 XT ₉₇	14.7	0.15	20000226	8.75735	24.10732	72.48294	4.94037	0.1398433	2.3313481	57	4	1949–2000	0.59	M-v	3	Williams	38845	1999 XT ₉₇
1999 XU ₉₇	14.1	0.15	20000226	148.34992	301.57792	4.27172	0.64456	0.0807119	2.3575539	54	3	1997–2000	0.48	M-v	3	Williams	38845	1999 XU ₉₇
1999 XD ₉₈	14.0	0.15	20000226	70.38697	103.25922	261.83775	12.06892	0.2249996	2.5693456	67	2	1998–2000	0.61	M-v	4	Williams	38845	1999 XD ₉₈
1999 XK ₉₈	12.4	0.15	20000226	246.38584	321.24892	263.28204	11.65785	0.1287246	2.6544069	77	3	1993–2000	0.56	M-v	2	Williams	39561	1999 XK ₉₈
1999 XM ₉₈	13.9	0.15	20000226	325.40495	69.68062	75.14944	5.09932	0.0457182	2.2406309	40	1	144 days	0.45	M-v	4	Williams	39561	1999 XM ₉₈
1999 XT ₉₈	12.8	0.15	20000226	19.18147	0.00613	80.29180	12.05136	0.0285722	3.0519323	72	2	1997–2000	0.61	M-v	3	Williams	39561	1999 XT ₉₈
1999 XW ₉₈	14.1	0.15	20000226	329.86660	236.98875	263.54523	12.29516	0.1012244	2.7344463	52	2	1998–2000	0.57	M-v	3	Williams	39561	1999 XW ₉₈
1999 XY ₉₈	14.5	0.15	20000226	0.90487	103.20283	8.26275	2.21001	0.1648965	2.3926665	58	1	143 days	0.54	M-v	4	Williams	39561	1999 XY ₉₈
1999 XB ₉₉	15.3	0.15	20000226	33.06360	343.34680	78.28109	8.00768	0.2266912	2.5748542	24	1	74 days	0.47	M-v	4	Williams	38152	1999 XB ₉₉
1999 XC ₉₉	14.5	0.15	20000226	307.25104	239.24687	292.36164	4.23008	0.1099045	2.3541321	46	4	1980–2000	0.66	M-v	2	Williams	39561	1999 XC ₉₉
1999 XJ ₉₉	14.2	0.15	20000226	37.51010	343.84219	82.11023	5.23191	0.0588557	2.5221070	39	5	1992–2000	0.69	M-v	3	Williams	39328	1999 XJ ₉₉
1999 XL ₉₉	14.5	0.15	20000226	105.17569	60.93290	287.29120	1.97060	0.1318816	2.3310375	54	4	1988–2000	0.62	M-v	1	Williams	38845	1999 XL ₉₉
1999 XU ₉₉	14.8	0.15	20000226	309.05603	95.25351	68.29784	4.14025	0.0645152	2.3165227	41	4	1992–2000	0.66	M-v	1	Williams	37928	1999 XU ₉₉
1999 XZ ₉₉	14.5	0.15	20000226	327.43108	95.29639	77.18111	6.67664	0.2938353	2.4619090	32	1	100 days	0.58	M-v	4	Williams	38845	1999 XZ ₉₉
1999 XB ₁₀₀	14.3	0.15	20000226	311.70908	259.49824	278.14057	3.91949	0.1710191	2.3609929	65	3	1982–2000	0.56	M-v	3	Williams	39561	1999 XB ₁₀₀
1999 XC ₁₀₀	12.4	0.15	20000226	169.11716	204.14261	90.50098	8.67534	0.0224182	3.1006826	49	1	173 days	0.50	M-v	4	Williams	38845	1999 XC ₁₀₀
1999 XE ₁₀₀	12.8	0.15	20000226	25.40464	350.53937	81.84337	8.63388	0.1848522	3.2071525	83	3	1997–2000	0.66	M-v	2	Williams	39561	1999 XE ₁₀₀
1999 XH ₁₀₀	12.7	0.15	20000226	227.19727	168.78837	81.89602	12.82332	0.1655692	2.6656110	68	3	1988–2000	0.73	M-v	2	Williams	38845	1999 XH ₁₀₀
1999 XK ₁₀₀	13.7	0.15	20000226	59.90276	304.10339	87.42997	4.34222	0.1788560	2.6695802	51	4	1990–2000	0.60	M-v	1	Williams	39561	1999 XK ₁₀₀
1999 XM ₁₀₀	12.5	0.15	20000226	30.77641	345.40289	87.54296	12.43801	0.0904698	3.0263908	45	3	1990–2000	0.56	M-v	3	Williams	38592	1999 XM ₁₀₀
1999 XS ₁₀₀	14.5	0.15	20000226	95.39144	283.66634	73.48052	3.56030	0.1836438	2.3097193	37	3	1992–2000	0.54	M-v	2	Williams	38592	1999 XS ₁₀₀
1999 XZ ₁₀₀	14.4	0.15	20000226	58.70023	109.64431	283.47896	7.88348	0.2337300	2.3163316	47	5	1954–2000	0.56	M-v	1	Williams	39329	1999 XZ ₁₀₀
1999 XA ₁₀₁	14.0	0.15	20000226	30.12417	352.89309	88.45707	7.61974	0.1408653	2.3153071	42	1	101 days	0.55	M-v	4	Williams	38846	1999 XA ₁₀₁
1999 XD ₁₀₁	13.9	0.15	20000226	142.47331	26.63359	299.27126	2.63369	0.1310652	2.2769574	65	4	1978–2000	0.53	M-v	3	Williams	38593	1999 XD ₁₀₁
1999 XK ₁₀₁	14.9	0.15	20000226	28.89399	140.20518	295.76300	4.94294	0.2729473	2.5603816	50	1	109 days	0.54	M-v	4	Williams	39561	1999 XK ₁₀₁
1999 XL ₁₀₁	12.7	0.15	20000226	73.47606	92.75477	297.44516	8.37565	0.1053149	3.0574421	72	3	1995–2000	0.53	M-v	2	Williams	38846	1999 XL ₁₀₁
1999 XW ₁₀₁	14.6	0.15	20000226	44.54011	346.53628	66.02122	4.84548	0.2509074	2.7077255	74	1	101 days	0.46	M-v	4	Williams	38846	1999 XW ₁₀₁
1999 XX ₁₀₁	13.0	0.15	20000226	268.27209	285.24157	296.55176	6.11027	0.1070917	2.7805072	77	1	177 days	0.53	M-v	4	Williams	38846	1999 XX ₁₀₁
1999 XY ₁₀₁	10.6	0.15	20000226	16.72803	163.68423	292.05749	29.23382	0.0468829	5.1398059	40	1	121 days	0.46	M-v	4	Williams	38846	1999 XY ₁₀₁
1999 XZ ₁₀₁	14.4	0.15	20000226	68.45669	86.05411	300.39496	4.83966	0.2249478	2.5576721	62	1	143 days	0.53	M-v	4	Williams	39561	1999 XZ ₁₀₁
1999 XB ₁₀₂	14.4	0.15	20000226	101.98722	279.27840	79.82325	6.08065	0.1902260	2.2774113	65	4	1984–2000	0.61	M-v	2	Williams	38846	1999 XB ₁₀₂
1999 XC ₁₀₂	13.4	0.15	20000226	14.46916	12.55498	91.92451	11.24785	0.0550270	3.0554105	51	1	118 days	0.48	M-v	3	Williams	38846	1999 XC ₁₀₂
1999 XF ₁₀₂	13.9	0.15	20000226	32.78440	133.77792	287.38191	3.32474	0.1811269	3.1765409	38	3	1989–2000	0.68	M-v	2	Williams	38593	1999 XF ₁₀₂
1999 XN ₁₀₂	12.6	0.15	20000226	147.04547	226.66855	91.47167	9.78253	0.0815532	2.9569527	42	1	122 days	0.41	M-v	4	Williams	38846	1999 XN ₁₀₂
1999 XP ₁₀₂	12.4	0.15	20000226	96.20113	270.25848	91.27017	11.04388	0.1228946	2.9833792	38	1	112 days	0.45	M-v	4	Williams	38846	1999 XP ₁₀₂
1999 XZ ₁₀₂	13.9	0.15	20000226	46.10801	317.47868	85.14854	4.80870	0.2940777	2.8739419	42	1	146 days	0.38	M-v	4	Williams	39561	1999 XZ ₁₀₂
1999 XK ₁₀₃	14.2	0.15	20000226	33.36086	10.99976	72.32563	4.75108	0.0799659	2.6678145	46	2	1998–2000	0.47	M-v	3	Williams	38846	1999 XK ₁₀₃
1999 XP ₁₀₃	14.6	0.15	20000226	54.71262	118.46867	291.62210	11.77932	0.1773123	2.6780379	37	1	79 days	0.44	M-v	4	Williams	39561	1999 XP ₁₀₃
1999 XV ₁₀₃	15.1	0.15	20000226	341.86159	211.13288	292.25057	3.69343	0.0591351	2.2083966	38	1	88 days	0.51	M-v	4	Williams	39561	1999 XV ₁₀₃
1999 XX ₁₀₃	14.6	0.15	20000226	353.58573	49.16043	41.01305	12.22216	0.1215905	2.6935349	56	1	111 days	0.53	M-v	4	Williams	38847	1999 XX ₁₀₃
1999 XY ₁₀₃	13.2	0.15	20000226	292.71617	114.18512	95.92171	14.25064	0.1411054	2.5945920	53	1	173 days	0.50	M-v	4	Williams	38847	1999 XY ₁₀₃
1999 XZ ₁₀₃	14.5	0.15	20000226	39.81335	131.96992	265.42848	11.80964	0.2100537	2.7354354	43	1	112 days	0.51	M-v	4	Williams	38847	1999 XZ ₁₀₃
1999 XB ₁₀₄	15.3	0.15	20000226	48.92613	345.38732	45.73711	6.99889	0.2357945	2.3417107	66	1	122 days	0.64	M-v	4	Williams	38847	1999 XB ₁₀₄
1999 XC ₁₀₄	15.4	0.15	20000226	41.83687	349.79945	77.98415	9.15746	0.2227014	2.2320526	54	1	138 days	0.56	M-v	4	Williams	39561	1999 XC ₁₀₄
1999 XD ₁₀₄	14.3	0.15	20000226	19.64988	165.50315	291.58078	12.39946	0.2361034	2.6343202	82	1	143 days	0.47	M-v	3	Williams	39561	1999 XD ₁₀₄
1999 XG ₁₀₄	14.6	0.15	20000226	52.31713	334.70220	66.55150	9.42384	0.0901297	2.2543377	66	1	122 days	0.41	M-v	3	Williams	38847	1999 XG ₁₀₄
1999 XR ₁₀₄	14.4	0.15	20000226	36.11351	317.39622	81.17714	25.07584	0.2952916	2.3385165	67	1	107 days	0.39	M-v	3	Williams	38847	1999 XR ₁₀₄
1999 XS ₁₀₄	14.3	0.15	20000226	316.81233	113.57595	56.25773	5.29817	0.0609082	2.2024926	74	1	151 days	0.53	M-v	4	Williams	39561	1999 XS ₁₀₄
1999 XT ₁₀₄	12.6	0.15	20000226	81.12127	296.10067	84.91758	11.19688	0.1274797	3.0487703	79	1	178 days	0.61	M-v	4	Williams	38847	1999 XT ₁₀₄
1999 XU ₁₀₄	13.6	0.15	20000226	60.61251	154.32213	244.78450	5.50837	0.2086708	2.5259927	46	1	104 days	0.39	M-v	4	Williams	38847	1999 XU ₁₀₄

1999 XY ₁₀₄	13.6	0.15	20000226	75.39857	333.68997	4.37562	3.31197	0.1581782	2.8018736	102	4	1992–2000	0.56	M-v	1	Williams	38594	1999 XY ₁₀₄
1999 XA ₁₀₅	12.6	0.15	20000226	0.72240	255.18688	172.54953	10.91530	0.0827917	3.0060712	70	2	1998–2000	0.56	M-v	3	Williams	38847	1999 XA ₁₀₅
1999 XD ₁₀₅	13.6	0.15	20000226	17.62212	277.81145	140.94456	10.67333	0.0810318	3.0051694	45	1	148 days	0.59	M-v	3	Williams	39561	1999 XD ₁₀₅
1999 XE ₁₀₅	14.1	0.15	20000226	39.26863	228.49000	162.52677	9.84238	0.2068068	2.7455331	67	2	1994–2000	0.59	M-v	3	Williams	39561	1999 XE ₁₀₅
1999 XG ₁₀₅	16.3	0.15	20000226	52.37905	330.19037	25.56251	6.18278	0.1767773	2.3639717	29	1	71 days	0.63	M-v	4	Williams		1999 XG ₁₀₅
1999 XH ₁₀₅	15.1	0.15	20000226	29.03212	351.25262	31.61699	11.74294	0.1559528	2.7106656	64	1	91 days	0.47	M-v	3	Williams	38153	1999 XH ₁₀₅
1999 XJ ₁₀₅	15.6	0.15	20000226	44.14122	158.02054	258.93687	18.74985	0.1412855	1.9734230	47	1	89 days	0.46	M-v	4	Williams	38153	1999 XJ ₁₀₅
1999 XK ₁₀₅	13.1	0.15	20000226	41.44354	127.31050	274.50828	9.72851	0.1190865	3.0422552	72	3	1993–2000	0.60	M-v	2	Williams	39561	1999 XK ₁₀₅
1999 XL ₁₀₅	15.7	0.15	20000226	10.31824	44.45146	48.70138	6.01139	0.1523526	2.2871853	44	1	110 days	0.63	M-v	4	Williams	38847	1999 XL ₁₀₅
1999 XO ₁₀₅	14.2	0.15	20000226	59.98267	335.08696	33.65164	4.61080	0.2754611	2.5836269	65	1	129 days	0.46	M-v	4	Williams	38847	1999 XO ₁₀₅
1999 XS ₁₀₅	14.8	0.15	20000226	8.54051	250.61373	228.01803	5.37826	0.1607659	2.2738353	36	1	119 days	0.53	M-v	4	Williams		1999 XS ₁₀₅
1999 XT ₁₀₅	14.7	0.15	20000226	288.43546	335.93913	238.34689	6.84427	0.1479574	2.1806221	41	2	1998–2000	0.65	M-v	4	Williams	38847	1999 XT ₁₀₅
1999 XU ₁₀₅	14.1	0.15	20000226	71.71584	226.71847	148.99649	8.64027	0.2414034	2.7952038	48	3	1989–2000	0.59	M-v	1	Williams	38847	1999 XU ₁₀₅
1999 XW ₁₀₅	15.5	0.15	20000226	42.55693	317.23303	114.45533	3.14147	0.1504227	2.3119886	44	1	65 days	0.51	M-v	5	Williams	38847	1999 XW ₁₀₅
1999 XB ₁₀₆	13.7	0.15	20000226	46.11370	276.91267	116.49785	13.60654	0.3774273	2.7395451	94	3	1991–2000	0.50	M-v	2	Williams	39561	1999 XB ₁₀₆
1999 XC ₁₀₆	14.7	0.15	20000226	53.90744	162.74004	251.26467	0.39981	0.1818223	2.4150555	61	1	134 days	0.48	M-v	4	Williams	39561	1999 XC ₁₀₆
1999 XL ₁₀₆	14.2	0.15	20000226	10.20908	177.70306	238.81373	14.00960	0.0939497	2.5541360	61	1	95 days	0.48	M-v	4	Williams	38153	1999 XL ₁₀₆
1999 XM ₁₀₆	14.2	0.15	20000226	82.34592	86.41573	238.87105	13.19798	0.1578010	2.5729394	55	2	1998–2000	0.62	M-v	3	Williams	37933	1999 XM ₁₀₆
1999 XN ₁₀₆	13.2	0.15	20000226	28.05579	145.86768	238.30611	10.16941	0.1637353	3.2102875	60	1	96 days	0.38	M-v	3	Williams	38153	1999 XN ₁₀₆
1999 XO ₁₀₆	14.7	0.15	20000226	41.70745	119.79039	251.71529	12.88976	0.2204792	2.6025821	71	1	168 days	0.50	M-v	3	Williams	38153	1999 XO ₁₀₆
1999 XP ₁₀₆	15.4	0.15	20000226	34.59184	0.22149	29.08008	11.79769	0.1996226	2.5170542	68	1	122 days	0.57	M-v	3	Williams	38847	1999 XP ₁₀₆
1999 XQ ₁₀₆	14.8	0.15	20000226	227.93866	313.28850	252.67877	5.16697	0.1065247	2.2821803	63	2	1991–1999	0.65	M-v	4	Williams	37933	1999 XQ ₁₀₆
1999 XR ₁₀₆	14.6	0.15	20000226	6.66180	164.60780	262.35992	5.45511	0.1000058	2.4152225	52	1	95 days	0.59	M-v	4	Williams	38153	1999 XR ₁₀₆
1999 XU ₁₀₆	14.3	0.15	20000226	181.36059	205.99684	38.20271	10.29038	0.1846660	2.2910720	66	2	1991–1999	0.59	M-v	4	Williams	38594	1999 XU ₁₀₆
1999 XW ₁₀₆	15.3	0.15	20000226	25.81382	7.81733	31.26663	11.00041	0.2570006	2.7163176	75	1	97 days	0.54	M-v	3	Williams	38153	1999 XW ₁₀₆
1999 XX ₁₀₆	13.9	0.15	20000226	36.88459	344.07711	33.01901	14.38292	0.1556396	3.1456984	102	2	1997–2000	0.52	M-v	3	Williams	38847	1999 XX ₁₀₆
1999 XZ ₁₀₆	14.4	0.15	20000226	97.87849	70.16815	248.15223	13.22191	0.1170989	2.5525861	65	2	1998–2000	0.75	M-v	3	Williams	37934	1999 XZ ₁₀₆
1999 XA ₁₀₇	14.8	0.15	20000226	190.85537	333.01572	268.16770	4.50953	0.1213671	2.2006445	77	2	1998–2000	0.54	M-v	3	Williams	38847	1999 XA ₁₀₇
1999 XC ₁₀₇	14.6	0.15	20000226	37.28559	326.28947	62.83726	3.29515	0.2157836	2.4028830	75	4	1988–2000	0.56	M-v	2	Williams	39561	1999 XC ₁₀₇
1999 XD ₁₀₇	14.2	0.15	20000226	159.93685	31.63562	227.94026	24.15597	0.1403151	2.5854582	56	3	1995–1999	0.52	M-v	3	Williams	38847	1999 XD ₁₀₇
1999 XE ₁₀₇	13.9	0.15	20000226	205.90932	168.89877	48.37522	12.85076	0.0294127	3.1671794	42	1	71 days	0.62	M-v	5	Williams	38847	1999 XE ₁₀₇
1999 XK ₁₀₇	14.4	0.15	20000226	4.14226	173.91632	250.73927	1.79072	0.0408267	2.7421811	82	3	1992–2000	0.64	M-v	3	Williams	38847	1999 XK ₁₀₇
1999 XN ₁₀₇	14.0	0.15	20000226	54.33884	354.99925	3.05749	2.16900	0.1637029	3.0412846	58	3	1978–2000	0.60	M-v	4	Williams	37935	1999 XN ₁₀₇
1999 XQ ₁₀₇	13.6	0.15	20000226	50.32552	342.64180	26.72387	10.06127	0.0906855	2.9760867	76	1	95 days	0.48	M-v	4	Williams	38847	1999 XQ ₁₀₇
1999 XR ₁₀₇	15.7	0.15	20000226	15.71777	30.08427	36.27848	7.71779	0.1964160	2.3371226	98	1	135 days	0.46	M-v	3	Williams	38847	1999 XR ₁₀₇
1999 XT ₁₀₇	14.1	0.15	20000226	32.54668	143.14945	244.80201	8.11688	0.0951853	3.1602762	48	1	86 days	0.70	M-v	4	Williams	38153	1999 XT ₁₀₇
1999 XW ₁₀₇	15.0	0.15	20000226	0.91287	117.81479	324.71776	2.17104	0.2299044	2.7660696	69	1	88 days	0.50	M-v	4	Williams	38847	1999 XW ₁₀₇
1999 XA ₁₀₈	15.6	0.15	20000226	120.06531	225.08195	69.05409	7.24415	0.2060152	2.2978512	53	2	1998–1999	0.63	M-v	4	Williams	39329	1999 XA ₁₀₈
1999 XB ₁₀₈	14.0	0.15	20000226	44.30311	317.46326	55.64983	17.48056	0.1359704	3.1421019	67	1	88 days	0.49	M-v	4	Williams	39562	1999 XB ₁₀₈
1999 XE ₁₀₈	14.0	0.15	20000226	64.13837	268.62837	85.89610	3.09226	0.1131896	2.9240040	60	2	1998–1999	0.52	M-v	3	Williams	38595	1999 XE ₁₀₈
1999 XG ₁₀₈	13.4	0.15	20000226	232.22578	100.28007	99.39740	2.50004	0.1070989	3.2097368	57	4	1996–1999	0.74	M-v	2	Williams	38595	1999 XG ₁₀₈
1999 XH ₁₀₈	14.4	0.15	19991118	333.46847	222.21160	216.44421	8.23011	0.0550147	3.0659025	38	1	44 days	0.66			Williams		1999 XH ₁₀₈
1999 XT ₁₀₈	15.7	0.15	19991118	20.66906	16.36532	5.08679	3.19916	0.1669608	2.6377784	33	1	44 days	0.50			Williams		1999 XT ₁₀₈
1999 XF ₁₀₉	15.3	0.15	20000226	80.61187	124.02760	208.37528	4.96185	0.2475086	2.3731671	77	2	1998–1999	0.59	M-v	4	Williams	37935	1999 XF ₁₀₉
1999 XH ₁₀₉	13.9	0.15	20000226	42.44306	290.38438	95.29884	5.89072	0.0445422	3.0648002	51	2	1997–1999	0.57	M-v	4	Williams	38847	1999 XH ₁₀₉
1999 XL ₁₀₉	13.8	0.15	20000226	2.33487	3.53102	75.45566	9.45270	0.2425560	3.0862846	69	1	146 days	0.45	M-v	3	Williams	39562	1999 XL ₁₀₉
1999 XU ₁₀₉	15.7	0.15	19991029	4.25977	225.07289	175.97186	3.05486	0.1716922	2.5746549	41	1	56 days	0.45			Williams		1999 XU ₁₀₉
1999 XY ₁₀₉	14.6	0.15	20000226	84.37607	214.74323	129.41189	3.25119	0.0986011	2.5182778	62	1	111 days	0.67	M-v	4	Williams	38153	1999 XY ₁₀₉
1999 XZ ₁₀₉	12.8	0.15	20000226	141.67334	205.60094	77.95509	11.14004	0.0749305	3.0415810	69	4	1978–2000	0.51	M-v	1	Williams	38848	1999 XZ ₁₀₉
1999 XE ₁₁₀	15.5	0.15	20000226	130.24358	232.92420	72.23519	4.59177	0.0983331	2.1408697	64	2	1998–1999	0.60	M-v	4	Williams	38848	1999 XE ₁₁₀
1999 XQ ₁₁₀	15.6	0.15	20000226	350.44477	191.48798	263.17169	6.96369	0.1986925	2.7075017	31	1	85 days	0.66	M-v	4	Williams	38154	1999 XQ ₁₁₀
1999 XR ₁₁₀	14.1	0.15	20000226	208.60755	320.87463	268.90517	5.13284	0.1236934	2.2714641	63	4	1970–2000	0.54	M-v	2	Williams	37937	1999 XR ₁₁₀
1999 XU ₁₁₀	13.9	0.15	20000226	285.81276	253.58037	262.42860	6.36343	0.0496792	2.4417928	72	3	1979–2000	0.57	M-v	2	Williams	37937	1999 XU ₁₁₀

1999 XV ₁₁₀	15.8	0.15	20000226	20.07893	161.08052	247.67598	12.73573	0.3701352	2.9926521	43	1	84 days	0.56	M-v	3	Williams	38848	1999 XV ₁₁₀
1999 XW ₁₁₀	15.9	0.15	19991118	309.03479	213.19742	267.90897	3.86912	0.1678479	2.4297397	46	1	39 days	0.50			Williams		1999 XW ₁₁₀
1999 XB ₁₁₁	14.6	0.15	20000226	67.73876	269.87460	98.35335	6.34374	0.0889599	2.3293466	66	2	1998–2000	0.67	M-v	3	Williams	38848	1999 XB ₁₁₁
1999 XF ₁₁₁	15.5	0.15	20000226	337.62708	81.15535	89.61261	31.34224	0.2167214	2.5885756	23	1	109 days	0.49	M-v	4	Williams		1999 XF ₁₁₁
1999 XG ₁₁₁	13.6	0.15	20000226	333.56138	114.27406	49.93634	13.52466	0.1160071	2.6967428	39	1	131 days	0.37	M-v	4	Williams	39562	1999 XG ₁₁₁
1999 XJ ₁₁₁	14.1	0.15	20000226	252.48045	172.07669	86.35113	26.47763	0.1916941	2.2649119	65	1	120 days	0.52	M-v	4	Williams	39562	1999 XJ ₁₁₁
1999 XK ₁₁₁	16.0	0.15	20000226	1.52289	48.17749	38.98696	31.99465	0.3159864	2.6181112	49	1	80 days	0.64	M-v	4	Williams	38848	1999 XK ₁₁₁
1999 XB ₁₁₂	14.5	0.15	20000226	25.51758	348.15427	66.74224	11.82370	0.2175564	3.1467598	49	1	73 days	0.60	M-v	4	Williams	38154	1999 XB ₁₁₂
1999 XH ₁₁₂	14.4	0.15	20000226	357.31262	44.70634	62.96968	14.39819	0.1523781	2.6348515	46	1	84 days	0.58	M-v	4	Williams	38154	1999 XH ₁₁₂
1999 XD ₁₁₃	12.8	0.15	20000226	293.46002	255.23296	269.27892	23.56346	0.2146873	2.2999676	49	1	159 days	0.50	M-v	3	Williams	39562	1999 XD ₁₁₃
1999 XE ₁₁₃	14.3	0.15	20000226	24.33199	32.38216	15.56887	22.22829	0.0582365	2.6795425	32	2	1997–1999	0.41	M-v	3	Williams	37938	1999 XE ₁₁₃
1999 XJ ₁₁₃	13.6	0.15	20000226	79.08004	45.56746	287.73201	15.75320	0.1693437	2.6097182	38	1	107 days	0.59	M-v	4	Williams	38848	1999 XJ ₁₁₃
1999 XM ₁₁₃	13.2	0.15	20000226	123.48750	340.37259	311.45412	12.76543	0.1523079	2.5679981	48	2	1997–2000	0.53	M-v	4	Williams	38848	1999 XM ₁₁₃
1999 XN ₁₁₃	14.8	0.15	20000226	22.20076	101.80089	309.93984	12.08969	0.1903137	2.5947475	21	1	78 days	0.51	M-v	4	Williams	38154	1999 XN ₁₁₃
1999 XP ₁₁₃	12.9	0.15	20000226	309.52901	174.60674	324.51158	13.17393	0.1193401	2.5498172	40	1	81 days	0.37	M-v	4	Williams	38848	1999 XP ₁₁₃
1999 XR ₁₁₃	13.3	0.15	20000226	93.88066	332.07946	347.39159	13.20959	0.1800130	2.5766120	37	1	89 days	0.56	M-v	4	Williams	38154	1999 XR ₁₁₃
1999 XU ₁₁₃	14.2	0.15	20000226	65.65892	64.79756	288.59193	13.19543	0.1574801	2.6316923	48	2	1994–2000	0.68	M-v	4	Williams	38848	1999 XU ₁₁₃
1999 XW ₁₁₃	13.7	0.15	20000226	177.96837	284.19712	327.37291	12.26910	0.1617369	2.4506801	27	1	87 days	0.55	M-v	4	Williams	38848	1999 XW ₁₁₃
1999 XQ ₁₁₄	15.3	0.15	20000226	84.56066	325.29929	11.68135	11.11764	0.2021065	2.2191851	36	1	82 days	0.61	M-v	4	Williams	38154	1999 XQ ₁₁₄
1999 XR ₁₁₄	13.7	0.15	20000226	9.36198	73.55789	350.30410	10.66164	0.1581545	3.1356393	43	2	1993–2000	0.55	M-v	3	Williams	38848	1999 XR ₁₁₄
1999 XT ₁₁₄	15.4	0.15	20000226	49.27476	62.86858	321.44624	8.86311	0.1757017	2.2433554	30	1	80 days	0.54	M-v	4	Williams	38154	1999 XT ₁₁₄
1999 XW ₁₁₄	12.2	0.15	20000226	31.87092	127.91202	267.79388	23.32758	0.0755937	3.0463417	32	1	107 days	0.37	M-v	3	Williams	38848	1999 XW ₁₁₄
1999 XA ₁₁₅	14.5	0.15	20000226	22.40728	131.12822	279.01746	13.11876	0.3430271	2.7517979	43	1	164 days	0.48	M-v	3	Williams	39562	1999 XA ₁₁₅
1999 XG ₁₁₅	15.8	0.15	20000226	72.82881	102.69748	251.14947	5.55582	0.1361500	2.2038749	66	2	1998–1999	0.64	M-v	4	Williams	37939	1999 XG ₁₁₅
1999 XM ₁₁₅	12.9	0.15	20000226	254.52465	292.33918	266.97362	8.44787	0.1730169	3.1564109	42	1	113 days	0.51	M-v	4	Williams	38848	1999 XM ₁₁₅
1999 XR ₁₁₅	14.5	0.15	20000226	35.69403	136.80625	252.56367	14.23190	0.0896214	2.6487774	35	1	124 days	0.55	M-v	3	Williams	38154	1999 XR ₁₁₅
1999 XT ₁₁₅	14.3	0.15	20000226	66.12620	5.18363	335.58026	5.64255	0.1986938	2.9182634	39	1	86 days	0.57	M-v	5	Williams	38154	1999 XT ₁₁₅
1999 XU ₁₁₅	14.8	0.15	20000226	103.36615	53.86487	257.85616	11.31474	0.1770394	2.3280906	31	1	91 days	0.59	M-v	5	Williams	38154	1999 XU ₁₁₅
1999 XW ₁₁₅	15.0	0.15	20000226	37.25934	81.05580	309.92514	4.45387	0.1919289	2.4750096	62	1	121 days	0.50	M-v	3	Williams	38848	1999 XW ₁₁₅
1999 XY ₁₁₅	15.7	0.15	20000226	0.92237	180.38746	266.92030	6.76691	0.2048476	2.4170795	29	1	83 days	0.64	M-v	4	Williams		1999 XY ₁₁₅
1999 XD ₁₁₆	14.7	0.15	20000226	13.76501	97.26722	327.02087	5.48138	0.2448027	2.6350511	57	1	111 days	0.41	M-v	3	Williams	38848	1999 XD ₁₁₆
1999 XE ₁₁₆	13.4	0.15	20000226	96.73373	33.30872	266.19711	10.81233	0.2612279	2.9258085	67	2	1998–2000	0.72	M-v	3	Williams	37939	1999 XE ₁₁₆
1999 XF ₁₁₆	15.7	0.15	20000226	9.14244	131.94981	307.83504	4.44491	0.1577399	2.1639967	52	1	114 days	0.57	M-v	4	Williams	38848	1999 XF ₁₁₆
1999 XJ ₁₁₆	14.5	0.15	20000226	347.35716	51.95099	38.72780	14.16955	0.0697962	2.6210056	58	1	90 days	0.62	M-v	4	Williams	38154	1999 XJ ₁₁₆
1999 XO ₁₁₆	13.9	0.15	20000226	7.97024	73.44909	348.65193	4.97174	0.0828988	3.1315131	64	4	1993–1999	0.73	M-v	1	Williams	37940	1999 XO ₁₁₆
1999 XP ₁₁₆	15.2	0.15	20000226	352.59148	174.02552	287.17806	4.78771	0.2350777	2.5734382	52	1	114 days	0.54	M-v	4	Williams	38848	1999 XP ₁₁₆
1999 XU ₁₁₆	15.3	0.15	20000226	33.98140	103.46683	289.21959	3.43552	0.2956063	2.5893415	38	1	77 days	0.45	M-v	4	Williams	38848	1999 XU ₁₁₆
1999 XX ₁₁₆	15.1	0.15	20000226	64.25684	17.17437	338.08792	2.53149	0.2379593	2.3497160	75	4	1981–2000	0.60	M-v	1	Williams	38848	1999 XX ₁₁₆
1999 XY ₁₁₆	14.9	0.15	20000226	22.41675	15.44413	45.30587	7.73755	0.1098239	2.3016642	65	1	113 days	0.45	M-v	3	Williams	38848	1999 XY ₁₁₆
1999 XZ ₁₁₆	13.5	0.15	20000226	90.35734	281.48185	33.49547	10.08529	0.2215444	3.1412646	70	1	105 days	0.52	M-v	4	Williams	38848	1999 XZ ₁₁₆
1999 XA ₁₁₇	14.7	0.15	20000226	24.63100	146.74779	270.24396	5.73288	0.1121338	2.3493353	61	1	145 days	0.55	M-v	3	Williams	39562	1999 XA ₁₁₇
1999 XB ₁₁₇	14.5	0.15	20000226	35.45631	346.20704	47.87821	14.13027	0.1855946	2.7268102	78	1	135 days	0.48	M-v	3	Williams	39562	1999 XB ₁₁₇
1999 XD ₁₁₇	15.6	0.15	20000226	65.31014	317.45484	39.76425	7.48560	0.2184811	2.3583596	44	1	60 days	0.55	M-v	5	Williams		1999 XD ₁₁₇
1999 XE ₁₁₇	15.7	0.15	20000226	39.57067	82.63976	315.78844	4.44629	0.1502502	2.2269724	46	2	1996–2000	0.58	M-v	3	Williams	38848	1999 XE ₁₁₇
1999 XF ₁₁₇	15.3	0.15	20000226	94.72301	54.17726	271.93573	7.88083	0.1722805	2.2945430	26	1	68 days	0.61	M-v	5	Williams		1999 XF ₁₁₇
1999 XJ ₁₁₇	15.5	0.15	20000226	54.29234	352.02731	20.50177	5.61133	0.2535478	2.2334251	84	1	119 days	0.49	M-v	4	Williams	38848	1999 XJ ₁₁₇
1999 XK ₁₁₇	15.9	0.15	20000226	35.80658	73.78793	314.29600	4.21630	0.3204498	2.6251369	39	1	91 days	0.69	M-v	4	Williams	38155	1999 XK ₁₁₇
1999 XM ₁₁₇	14.2	0.15	20000226	320.04287	135.13057	358.34177	4.23028	0.1457335	2.5747257	74	1	144 days	0.47	M-v	4	Williams	39562	1999 XM ₁₁₇
1999 XO ₁₁₇	13.1	0.15	19991118	42.62185	341.93358	28.33714	9.04650	0.0103016	3.0475124	39	1	42 days	0.44			Williams		1999 XO ₁₁₇
1999 XW ₁₁₇	14.2	0.15	20000226	221.10896	211.48145	15.38281	5.56011	0.2009950	2.2745120	61	5	1970–2000	0.57	M-v	2	Williams	38848	1999 XW ₁₁₇
1999 XZ ₁₁₇	15.8	0.15	20000226	51.69179	328.95845	43.05798	6.49566	0.2398092	2.4615880	60	2	1995–1999	0.44	M-v	3	Williams	37940	1999 XZ ₁₁₇
1999 XC ₁₁₈	14.2	0.15	20000226	111.32250	38.98039	281.05029	3.98377	0.0464245	2.7202993	52	2	1995–1999	0.48	M-v	4	Williams	37941	1999 XC ₁₁₈
1999 XD ₁₁₈	14.0	0.15	20000226	109.05915	282.83284	37.71773	5.02705	0.1389964	2.1918991	90	3	1994–2000	0.48	M-v	1	Williams	39562	1999 XD ₁₁₈

1999 XE ₁₁₈	15.4	0.15	20000226	5.85819	83.21853	0.40766	2.11188	0.1713186	2.4240521	62	1	104 days	0.54	M-v	4	Williams	38848	1999 XE ₁₁₈
1999 XH ₁₁₈	14.9	0.15	19991118	10.43139	0.39768	42.87265	6.65641	0.0677596	2.8003527	41	1	40 days	0.62			Williams		1999 XH ₁₁₈
1999 XJ ₁₁₈	14.4	0.15	20000226	101.76351	284.18399	37.33737	7.40705	0.1269984	2.7588534	51	1	68 days	0.59	M-v	5	Williams	39562	1999 XJ ₁₁₈
1999 XK ₁₁₈	14.8	0.15	20000226	223.92415	286.05934	298.27324	2.88558	0.1137070	2.2723468	54	2	1998–1999	0.61	M-v	4	Williams	39329	1999 XK ₁₁₈
1999 XP ₁₁₈	15.3	0.15	20000226	52.53987	25.49662	353.05011	2.15126	0.1980692	2.3886201	61	2	1995–1999	0.54	M-v	4	Williams	37941	1999 XP ₁₁₈
1999 XS ₁₁₈	13.6	0.15	20000226	107.93967	265.76083	47.60361	9.59710	0.1574195	2.7981282	49	3	1980–2000	0.58	M-v	2	Williams	38849	1999 XS ₁₁₈
1999 XT ₁₁₈	16.0	0.15	20000226	68.26362	293.92017	47.56265	6.90113	0.3108799	2.5594952	41	2	1994–1999	0.64	M-v	4	Williams	38595	1999 XT ₁₁₈
1999 XU ₁₁₈	14.0	0.15	20000226	92.30460	70.50237	258.89976	7.75910	0.1538700	2.7893404	45	1	113 days	0.45	M-v	4	Williams	38849	1999 XU ₁₁₈
1999 XW ₁₁₈	17.5	0.15	19991118	15.42514	336.06449	56.43044	3.32712	0.2269531	2.3457520	39	1	40 days	0.57			Williams		1999 XW ₁₁₈
1999 XX ₁₁₈	15.5	0.15	20000226	33.54381	87.81157	318.92875	1.54552	0.2010435	2.4088004	49	1	104 days	0.51	M-v	4	Williams	38849	1999 XX ₁₁₈
1999 XY ₁₁₈	13.9	0.15	20000226	8.43795	184.36299	258.95266	3.53092	0.1185875	2.2933257	59	1	134 days	0.33	M-v	3	Williams	39562	1999 XY ₁₁₈
1999 XO ₁₁₉	14.9	0.15	20000226	53.99429	355.81248	26.38651	6.74020	0.1135353	2.3851168	39	1	88 days	0.47	M-v	4	Williams		1999 XO ₁₁₉
1999 XV ₁₁₉	13.6	0.15	20000226	209.31483	191.31308	38.69343	9.75894	0.0990784	2.7662500	66	2	1998–2000	0.51	M-v	3	Williams	39330	1999 XV ₁₁₉
1999 XY ₁₁₉	13.0	0.15	20000226	114.85020	63.89102	248.67517	20.68490	0.0472218	3.2107227	37	1	112 days	0.50	M-v	4	Williams	38849	1999 XY ₁₁₉
1999 XB ₁₂₀	16.1	0.15	20000226	41.88729	76.72719	314.70748	2.25838	0.2527789	2.3434124	54	2	1997–2000	0.52	M-v	4	Williams	37941	1999 XB ₁₂₀
1999 XE ₁₂₀	13.3	0.15	20000226	253.92402	287.98322	259.28804	9.13167	0.0616538	2.9849949	63	2	1998–2000	0.66	M-v	3	Williams	37942	1999 XE ₁₂₀
1999 XF ₁₂₀	13.8	0.15	20000226	48.23382	116.28196	269.76321	5.58267	0.0783341	2.7268653	59	2	1998–2000	0.58	M-v	3	Williams	38849	1999 XF ₁₂₀
1999 XO ₁₂₀	12.9	0.15	20000226	259.87374	147.93757	38.34142	9.32700	0.1077677	3.1665662	85	4	1976–2000	0.64	M-v	1	Williams	38849	1999 XO ₁₂₀
1999 XP ₁₂₀	12.5	0.15	20000226	332.60620	72.73355	41.51804	10.22369	0.1048233	3.0260178	75	4	1983–2000	0.58	M-v	3	Williams	38595	1999 XP ₁₂₀
1999 XS ₁₂₀	14.2	0.15	20000226	186.21574	333.19893	284.09561	5.71644	0.0880037	2.3216288	54	3	1991–2000	0.62	M-v	3	Williams	38596	1999 XS ₁₂₀
1999 XT ₁₂₀	13.7	0.15	20000226	270.74726	274.71513	260.32656	12.57575	0.0150965	2.4550481	55	1	122 days	0.51	M-v	4	Williams	39562	1999 XT ₁₂₀
1999 XX ₁₂₀	14.4	0.15	20000226	87.31106	314.42809	37.47703	5.98689	0.0696522	2.3398216	42	1	89 days	0.48	M-v	5	Williams		1999 XX ₁₂₀
1999 XD ₁₂₁	14.4	0.15	20000226	36.17781	347.97738	51.70188	10.18953	0.1533692	2.7421252	49	1	110 days	0.44	M-v	3	Williams	38849	1999 XD ₁₂₁
1999 XK ₁₂₁	14.8	0.15	20000226	40.79454	9.54588	28.86206	2.65325	0.2021248	2.3784522	42	1	110 days	0.46	M-v	4	Williams	38849	1999 XK ₁₂₁
1999 XT ₁₂₁	14.4	0.15	20000226	6.50030	162.48155	267.30571	12.48412	0.1547115	2.6947256	39	1	79 days	0.46	M-v	4	Williams		1999 XT ₁₂₁
1999 XX ₁₂₁	13.4	0.15	20000226	34.53376	131.13683	261.07237	12.11566	0.1806137	2.5740473	66	3	1987–2000	0.45	M-v	2	Williams	38849	1999 XX ₁₂₁
1999 XB ₁₂₂	13.2	0.15	20000226	2.72897	161.43745	271.92622	14.11379	0.1000415	2.5734070	50	3	1988–2000	0.65	M-v	3	Williams	38849	1999 XB ₁₂₂
1999 XD ₁₂₂	14.8	0.15	20000226	55.38134	38.94073	319.90527	7.58496	0.1896602	2.7679630	42	2	1994–2000	0.70	M-v	4	Williams	38849	1999 XD ₁₂₂
1999 XE ₁₂₂	14.2	0.15	20000226	179.19851	315.58690	292.66058	10.86388	0.1452807	2.4671972	35	3	1996–1999	0.72	M-v	3	Williams	38596	1999 XE ₁₂₂
1999 XG ₁₂₂	14.7	0.15	20000226	293.30242	268.59025	254.20584	21.24290	0.1873934	2.3864991	30	1	114 days	0.59	M-v	4	Williams	39562	1999 XG ₁₂₂
1999 XM ₁₂₂	15.6	0.15	20000226	33.45726	78.21652	315.78010	5.01362	0.2132930	2.6493043	29	1	75 days	0.61	M-v	4	Williams		1999 XM ₁₂₂
1999 XO ₁₂₂	15.3	0.15	20000226	40.93213	49.84002	342.98298	5.91865	0.1161168	2.4231027	28	1	66 days	0.71	M-v	4	Williams		1999 XO ₁₂₂
1999 XS ₁₂₂	14.2	0.15	20000226	91.11415	309.13726	20.68064	8.96485	0.1161482	2.7223089	50	1	120 days	0.47	M-v	4	Williams	38849	1999 XS ₁₂₂
1999 XY ₁₂₂	13.3	0.15	20000226	235.98321	251.68776	304.37513	9.02836	0.0354615	3.0028833	53	2	1998–2000	0.63	M-v	3	Williams	39330	1999 XY ₁₂₂
1999 XD ₁₂₃	13.8	0.15	20000226	77.87350	21.69774	330.33293	6.90513	0.0646766	2.5864586	43	3	1986–2000	0.53	M-v	3	Williams	38849	1999 XD ₁₂₃
1999 XF ₁₂₃	14.2	0.15	20000226	57.98493	42.33553	309.20764	6.89261	0.2277074	3.0721945	31	1	109 days	0.49	M-v	4	Williams	38849	1999 XF ₁₂₃
1999 XM ₁₂₃	15.3	0.15	20000226	15.76327	65.85248	1.71907	6.10638	0.1441198	2.4300644	31	1	87 days	0.54	M-v	4	Williams		1999 XM ₁₂₃
1999 XO ₁₂₃	14.1	0.15	20000226	9.39780	158.69595	267.77238	14.51994	0.2152884	3.1201615	45	1	112 days	0.55	M-v	3	Williams	38849	1999 XO ₁₂₃
1999 XT ₁₂₃	13.2	0.15	20000226	55.19411	99.31934	272.79540	10.04408	0.0658340	3.0584040	50	2	1998–2000	0.60	M-v	3	Williams	38849	1999 XT ₁₂₃
1999 XV ₁₂₃	13.5	0.15	20000226	232.46260	267.00228	295.54238	8.42149	0.0304812	3.0173316	44	3	1996–2000	0.61	M-v	3	Williams	38849	1999 XV ₁₂₃
1999 XW ₁₂₃	13.8	0.15	20000226	276.31570	260.42714	271.35012	11.35447	0.1092368	2.6899596	45	2	1998–2000	0.54	M-v	3	Williams	38849	1999 XW ₁₂₃
1999 XF ₁₂₄	16.1	0.15	19991118	320.49567	137.15846	334.90452	4.61512	0.1881771	2.3537554	22	1	40 days	0.53			Williams		1999 XF ₁₂₄
1999 XQ ₁₂₄	14.6	0.15	20000226	16.75113	31.16092	27.62647	10.43994	0.1287726	3.1706784	31	2	1993–1999	0.68	M-v	4	Williams	38596	1999 XQ ₁₂₄
1999 XR ₁₂₄	14.5	0.15	20000226	136.41782	5.36627	290.39866	6.44451	0.1281909	2.3335449	51	3	1997–2000	0.58	M-v	3	Williams	38849	1999 XR ₁₂₄
1999 XX ₁₂₄	14.3	0.15	20000226	154.80785	19.84667	269.45668	9.16826	0.0120265	2.3374382	54	2	1991–2000	0.67	M-v	4	Williams	38849	1999 XX ₁₂₄
1999 XC ₁₂₅	15.5	0.15	20000226	100.66727	324.94427	10.90884	5.30928	0.0938082	2.2729305	32	2	1998–1999	0.64	M-v	4	Williams	37944	1999 XC ₁₂₅
1999 XD ₁₂₅	13.5	0.15	20000226	316.97638	103.75141	30.70575	9.47084	0.1051030	2.7713238	61	4	1982–2000	0.53	M-v	1	Williams	38849	1999 XD ₁₂₅
1999 XV ₁₂₅	15.3	0.15	20000226	8.87214	88.81165	352.28530	3.94280	0.1702237	2.5668053	28	1	107 days	0.53	M-v	4	Williams	38849	1999 XV ₁₂₅
1999 XY ₁₂₅	14.1	0.15	20000226	114.64228	14.91188	293.00410	5.69094	0.1999020	2.5474881	44	2	1998–2000	0.57	M-v	4	Williams	37945	1999 XY ₁₂₅
1999 XZ ₁₂₅	14.5	0.15	20000226	51.12242	16.10867	10.31453	4.05813	0.1837970	2.3029975	70	3	1978–2000	0.55	M-v	2	Williams	38849	1999 XZ ₁₂₅
1999 XA ₁₂₆	16.4	0.15	20000226	35.15989	20.43022	31.12590	6.02331	0.1311572	2.2764927	25	1	68 days	0.47	M-v	4	Williams	39562	1999 XA ₁₂₆
1999 XK ₁₂₆	13.3	0.15	20000226	123.35422	273.93203	31.13727	9.07902	0.1686511	2.5474182	65	1	117 days	0.56	M-v	4	Williams	38849	1999 XK ₁₂₆
1999 XO ₁₂₆	16.5	0.15	19991208	342.50211	133.84899	320.79721	2.91611	0.1949032	2.3420650	21	1	58 days	0.62			Williams		1999 XO ₁₂₆

1999 XP ₁₂₆	13.6	0.15	20000226	15.09897	160.15220	271.52477	8.92921	0.2610923	2.7649949	81	3	1990-2000	0.57	M-v	2	Williams	39562	1999 XP ₁₂₆
1999 XQ ₁₂₆	14.2	0.15	20000226	240.64843	207.02200	7.96845	5.47952	0.0925307	2.3252426	41	3	1991-2000	0.70	M-v	4	Williams	38849	1999 XQ ₁₂₆
1999 XS ₁₂₆	14.5	0.15	20000226	356.51566	40.76798	52.20294	13.56915	0.1130678	2.8038668	44	1	83 days	0.54	M-v	4	Williams	39562	1999 XS ₁₂₆
1999 XT ₁₂₆	15.8	0.15	19991228	35.43193	110.27723	279.78583	6.97377	0.1338542	2.2781259	29	1	54 days	0.56			Williams		1999 XT ₁₂₆
1999 XE ₁₂₇	14.0	0.15	20000226	91.67171	326.43868	5.11619	6.44958	0.1132750	2.3507087	77	2	1998-2000	0.68	M-v	3	Williams	38849	1999 XE ₁₂₇
1999 XF ₁₂₇	14.9	0.15	20000226	41.01482	160.48637	223.25867	25.25140	0.2743622	2.3849262	58	1	98 days	0.56	M-v	4	Williams	38156	1999 XF ₁₂₇
1999 XJ ₁₂₇	13.2	0.15	20000226	51.73439	263.81738	107.13810	14.37428	0.1871199	2.9449585	51	1	120 days	0.61	M-v	4	Williams	39562	1999 XJ ₁₂₇
1999 XK ₁₂₇	15.3	0.15	20000226	60.72957	186.50316	163.17451	9.16114	0.3525265	2.3756443	24	1	98 days	0.78	M-v	4	Williams		1999 XK ₁₂₇
1999 XL ₁₂₇	13.4	0.15	20000226	58.54214	26.23871	11.23979	6.79366	0.2585196	2.7605870	39	1	149 days	0.41	M-v	4	Williams	38849	1999 XL ₁₂₇
1999 XQ ₁₂₇	14.6	0.15	20000226	61.98804	269.51355	113.30319	5.44094	0.1573984	2.2864368	56	1	146 days	0.48	M-v	4	Williams	39562	1999 XQ ₁₂₇
1999 XR ₁₂₇	14.1	0.15	20000226	98.93075	166.75752	173.29201	23.79357	0.1793200	2.3286630	29	1	125 days	0.71	M-v	4	Williams	38849	1999 XR ₁₂₇
1999 XT ₁₂₇	14.2	0.15	20000226	82.35331	137.00343	208.22821	8.70072	0.1239488	2.5157230	76	3	1991-2000	0.47	M-v	1	Williams	39562	1999 XT ₁₂₇
1999 XU ₁₂₇	13.8	0.15	20000226	234.73697	61.13132	158.08914	5.45570	0.0972111	2.4300848	63	3	1989-2000	0.63	M-v	3	Williams	39562	1999 XU ₁₂₇
1999 XW ₁₂₇	12.3	0.15	20000226	53.22188	30.82518	43.18198	14.27037	0.1291878	2.5963452	50	1	145 days	0.33	M-v	3	Williams	39562	1999 XW ₁₂₇
1999 XG ₁₂₉	14.3	0.15	20000226	138.71773	331.03744	337.22071	6.65357	0.0587511	2.3449706	36	2	1997-2000	0.50	M-v	4	Williams	37947	1999 XG ₁₂₉
1999 XL ₁₃₀	14.3	0.15	20000226	48.17113	32.97558	356.07416	4.24081	0.2389448	2.6703857	45	2	1990-2000	0.47	M-v	4	Williams	38596	1999 XL ₁₃₀
1999 XU ₁₃₁	14.5	0.15	20000226	259.03260	218.05765	10.81117	6.71223	0.0764324	2.3746300	35	3	1997-2000	0.69	M-v	4	Williams	38597	1999 XU ₁₃₁
1999 XH ₁₃₂	14.1	0.15	20000226	70.25442	313.13058	65.45155	13.58416	0.1676999	2.5874883	34	2	1978-2000	0.42	M-v	4	Williams	38850	1999 XH ₁₃₂
1999 XQ ₁₃₂	13.8	0.15	20000226	342.80585	194.02133	297.06129	13.41087	0.0798323	2.3631191	39	3	1982-2000	0.54	M-v	2	Williams	39562	1999 XQ ₁₃₂
1999 XG ₁₃₃	13.3	0.15	20000226	51.58457	340.95636	64.91092	15.66000	0.1767986	2.5634534	31	1	106 days	0.42	M-v	5	Williams		1999 XG ₁₃₃
1999 XH ₁₃₃	10.6	0.15	20000226	292.29293	169.08420	10.40629	10.70186	0.0705694	5.2040878	47	4	1991-2000	0.77	M-v	2	Williams	38850	1999 XH ₁₃₃
1999 XJ ₁₃₃	12.6	0.15	20000226	345.96415	79.43518	53.44814	13.94056	0.1231950	2.5980765	38	1	106 days	0.53	M-v	4	Williams	39562	1999 XJ ₁₃₃
1999 XW ₁₃₃	13.5	0.15	20000226	342.59111	116.39981	16.87243	10.68720	0.0670581	3.0532392	63	2	1998-2000	0.66	M-v	3	Williams	39563	1999 XW ₁₃₃
1999 XB ₁₃₄	13.8	0.15	20000226	0.11955	180.02441	305.77173	16.43886	0.2159557	2.7636247	76	2	1998-2000	0.55	M-v	3	Williams	39563	1999 XB ₁₃₄
1999 XF ₁₃₄	15.2	0.15	20000226	318.13745	169.72281	5.38416	7.12426	0.0864251	2.2548279	29	2	1997-2000	0.59	M-v	5	Williams	38598	1999 XF ₁₃₄
1999 XG ₁₃₄	13.8	0.15	20000226	56.09079	110.78896	299.18147	23.69057	0.1633385	2.3699269	66	5	1982-2000	0.51	M-v	1	Williams	39330	1999 XG ₁₃₄
1999 XL ₁₃₄	15.1	0.15	20000226	351.92780	169.79334	326.12267	11.36242	0.1298983	2.6527347	43	2	1996-2000	0.68	M-v	4	Williams	38850	1999 XL ₁₃₄
1999 XM ₁₃₄	14.4	0.15	20000226	5.56478	70.50599	50.30580	13.72839	0.1437935	2.5975718	45	1	132 days	0.66	M-v	3	Williams	39563	1999 XM ₁₃₄
1999 XR ₁₃₄	14.2	0.15	20000226	334.12743	255.07524	238.54709	20.71610	0.0962868	2.6328698	24	1	82 days	0.53	M-v	4	Williams	38158	1999 XR ₁₃₄
1999 XT ₁₃₄	15.2	0.15	20000226	50.67595	272.36900	97.24432	15.41778	0.3450480	2.5822707	41	1	89 days	0.56	M-v	4	Williams	38158	1999 XT ₁₃₄
1999 XU ₁₃₄	15.1	0.15	20000226	97.40840	262.23409	92.54329	23.96938	0.1067741	1.9657049	44	1	125 days	0.53	M-v	4	Williams	38850	1999 XU ₁₃₄
1999 XX ₁₃₄	14.1	0.15	20000226	353.86920	229.47963	295.49551	30.41515	0.2815261	2.6212246	30	1	142 days	0.59	M-v	3	Williams		1999 XX ₁₃₄
1999 XC ₁₃₅	13.7	0.15	20000226	101.88530	197.44104	127.98087	8.83867	0.3000204	2.2417513	58	3	1982-2000	0.54	M-v	2	Williams	38850	1999 XC ₁₃₅
1999 XG ₁₃₅	16.3	0.15	20000226	358.31311	36.32947	87.04630	11.37779	0.4989032	2.9702144	55	2	1990-2000	0.59	M-v	2	Williams	39330	1999 XG ₁₃₅
1999 XJ ₁₃₅	13.9	0.15	20000226	309.14076	278.70650	264.43271	26.13770	0.1633321	2.5689495	39	1	136 days	0.49	M-v	4	Williams	39563	1999 XJ ₁₃₅
1999 XP ₁₃₅	15.3	0.15	20000226	86.69147	222.01683	135.38419	2.81997	0.2157216	2.1648738	34	2	1998-2000	0.52	M-v	4	Williams	38850	1999 XP ₁₃₅
1999 XV ₁₃₅	13.7	0.15	20000226	85.59928	262.81361	97.80738	25.56225	0.1784731	2.7521388	43	1	124 days	0.45	M-v	4	Williams	38850	1999 XV ₁₃₅
1999 XG ₁₃₆	14.6	0.15	20000226	65.12264	349.02411	75.08441	23.99859	0.0928959	1.9685747	36	1	104 days	0.35	M-v	4	Williams	39563	1999 XG ₁₃₆
1999 XO ₁₃₆	14.3	0.15	20000226	327.35101	92.62408	98.48069	7.43877	0.1411790	2.2573162	71	1	164 days	0.47	M-v	4	Williams	39563	1999 XO ₁₃₆
1999 XR ₁₃₆	13.2	0.15	20000226	69.63454	85.17108	316.77591	11.74916	0.2711678	2.6171534	103	1	178 days	0.51	M-v	3	Williams	39563	1999 XR ₁₃₆
1999 XS ₁₃₆	12.4	0.15	20000226	357.48549	215.38756	299.73002	15.90847	0.1311258	2.5684901	74	1	159 days	0.55	M-v	3	Williams	39563	1999 XS ₁₃₆
1999 XU ₁₃₆	14.8	0.15	20000226	32.79385	286.84310	124.14797	5.86757	0.2019328	2.3887744	62	1	146 days	0.52	M-v	3	Williams	39563	1999 XU ₁₃₆
1999 XW ₁₃₆	14.0	0.15	20000226	104.28111	230.82174	89.92453	9.14220	0.2506059	2.3265233	69	2	1998-2000	0.62	M-v	4	Williams	38850	1999 XW ₁₃₆
1999 XX ₁₃₆	14.0	0.15	20000226	86.02793	241.50218	114.24548	9.84539	0.1258477	2.3196688	71	2	1998-2000	0.52	M-v	3	Williams	39563	1999 XX ₁₃₆
1999 XZ ₁₃₆	15.5	0.15	20000226	33.86718	310.58132	107.57412	6.77804	0.1457770	2.2531719	38	1	88 days	0.54	M-v	4	Williams	38159	1999 XZ ₁₃₆
1999 XC ₁₃₇	15.6	0.15	20000226	21.76675	137.40853	277.77521	8.99602	0.3200493	2.5421681	38	1	112 days	0.47	M-v	3	Williams	38851	1999 XC ₁₃₇
1999 XD ₁₃₇	14.4	0.15	20000226	33.90686	315.70098	91.87801	25.06311	0.1952621	2.3005011	32	1	87 days	0.48	M-v	3	Williams	38851	1999 XD ₁₃₇
1999 XL ₁₃₇	12.2	0.15	20000226	256.37664	288.15183	298.44567	8.83080	0.0605900	2.6952140	93	3	1980-2000	0.46	M-v	2	Williams	38851	1999 XL ₁₃₇
1999 XO ₁₃₇	15.0	0.15	20000226	95.12600	181.86952	149.21503	8.62838	0.1956638	2.2858022	37	1	84 days	0.67	M-v	4	Williams	38851	1999 XO ₁₃₇
1999 XQ ₁₃₇	14.5	0.15	20000226	42.44077	142.74245	283.64546	12.76425	0.1955092	2.6965398	57	1	91 days	0.49	M-v	4	Williams	38851	1999 XQ ₁₃₇
1999 XR ₁₃₇	15.7	0.15	20000226	8.18914	309.43544	118.03819	7.02915	0.2180024	2.2259884	44	1	116 days	0.52	M-v	4	Williams	38159	1999 XR ₁₃₇
1999 XV ₁₃₇	13.1	0.15	20000226	231.68537	161.41629	50.30179	17.95383	0.1433124	2.7600174	77	1	112 days	0.58	M-v	4	Williams	38851	1999 XV ₁₃₇
1999 XB ₁₃₉	14.2	0.15	20000226	44.34896	331.58464	94.05770	8.72763	0.1707702	2.7674452	44	1	112 days	0.44	M-v	4	Williams	38851	1999 XB ₁₃₉

1999 XF ₁₃₉	15.6	0.15	20000226	63.64424	331.69291	77.89604	4.08744	0.1339940	2.1985225	40	1	112 days	0.46	M-v	4	Williams	38851	1999 XF ₁₃₉
1999 XH ₁₃₉	15.0	0.15	20000226	68.87829	291.82730	26.26224	8.40412	0.1738947	2.9493105	44	2	1994–1999	0.45	M-v	5	Williams	38851	1999 XH ₁₃₉
1999 XV ₁₃₉	14.1	0.15	20000226	94.31752	268.90244	108.55418	10.80533	0.0550112	3.0253180	37	1	63 days	0.42	M-v	5	Williams	38851	1999 XV ₁₃₉
1999 XB ₁₄₀	16.2	0.15	20000226	62.77922	282.52956	112.13494	2.80908	0.2395113	2.3512784	34	1	67 days	0.52	M-v	5	Williams	38851	1999 XB ₁₄₀
1999 XS ₁₄₀	13.9	0.15	20000226	301.26565	79.14195	113.29503	3.85369	0.1312472	3.1555134	41	1	71 days	0.53	M-v	5	Williams	38851	1999 XS ₁₄₀
1999 XC ₁₄₁	14.6	0.15	20000226	31.46442	152.06754	221.12000	1.17035	0.0865744	2.8647754	67	1	94 days	0.57	M-v	4	Williams	38159	1999 XC ₁₄₁
1999 XH ₁₄₁	15.5	0.15	20000226	49.87612	160.40680	269.28547	2.37695	0.0777273	2.2204782	41	1	104 days	0.56	M-v	4	Williams	38851	1999 XH ₁₄₁
1999 XS ₁₄₁	15.6	0.15	20000226	343.30013	59.03468	92.98648	22.39589	0.0469312	1.9111940	44	1	141 days	0.60	M-v	4	Williams	38851	1999 XS ₁₄₁
1999 XU ₁₄₁	14.8	0.15	20000226	339.38097	83.64527	98.89756	28.65595	0.3537470	2.6347460	41	1	130 days	0.54	M-v	3	Williams	39563	1999 XU ₁₄₁
1999 XW ₁₄₁	15.1	0.15	20000226	40.39001	155.61381	297.26634	38.30171	0.1439747	1.8405110	34	2	1990–2000	0.47	M-v	3	Williams	38851	1999 XW ₁₄₁
1999 XY ₁₄₁	14.8	0.15	20000226	332.67376	234.73026	270.88683	21.91843	0.2860208	2.4068854	35	1	95 days	0.45	M-v	4	Williams	38851	1999 XY ₁₄₁
1999 XA ₁₄₂	14.5	0.15	20000226	345.18319	79.27926	61.37917	23.18838	0.2838174	2.2829595	71	2	1992–2000	0.46	M-v	3	Williams	37953	1999 XA ₁₄₂
1999 XG ₁₄₂	13.7	0.15	20000226	37.85349	341.57269	77.76611	31.41551	0.1564317	2.6651659	47	1	139 days	0.55	M-v	3	Williams	39563	1999 XG ₁₄₂
1999 XR ₁₄₂	15.0	0.15	20000226	96.83332	294.37907	86.20746	24.65910	0.1080048	1.9468740	69	2	1998–2000	0.55	M-v	3	Williams	38851	1999 XR ₁₄₂
1999 XB ₁₄₃	13.0	0.15	20000226	348.55335	20.44324	65.87955	13.01963	0.3318072	3.2051883	57	1	118 days	0.49	M-v	4	Williams	38160	1999 XB ₁₄₃
1999 XC ₁₄₃	14.1	0.15	20000226	5.09802	337.62979	85.61209	4.85787	0.1747847	2.4831170	72	1	149 days	0.58	M-v	4	Williams	38851	1999 XC ₁₄₃
1999 XD ₁₄₃	14.3	0.15	20000226	41.31718	202.35036	176.06326	4.76087	0.1755664	2.2185368	95	3	1956–2000	0.59	M-v	2	Williams	37953	1999 XD ₁₄₃
1999 XF ₁₄₃	13.5	0.15	20000226	84.35758	210.87295	133.84758	10.85089	0.1873574	2.6541403	63	3	1990–2000	0.60	M-v	1	Williams	39563	1999 XF ₁₄₃
1999 XG ₁₄₃	14.2	0.15	20000226	41.41413	218.62480	181.78934	6.55042	0.1992164	2.5509207	48	2	1997–2000	0.59	M-v	4	Williams	38851	1999 XG ₁₄₃
1999 XJ ₁₄₃	13.4	0.15	20000226	92.79272	135.21761	200.24635	13.55687	0.2090127	2.6648613	75	3	1971–2000	0.58	M-v	2	Williams	39563	1999 XJ ₁₄₃
1999 XL ₁₄₃	13.6	0.15	20000226	353.49569	291.95554	172.44825	9.10450	0.1245639	2.7679152	75	3	1996–2000	0.61	M-v	3	Williams	39563	1999 XL ₁₄₃
1999 XO ₁₄₃	15.2	0.15	20000226	15.87417	258.77831	231.97280	8.68451	0.1888022	2.2379899	43	1	104 days	0.48	M-v	4	Williams	39563	1999 XO ₁₄₃
1999 XQ ₁₄₃	15.1	0.15	20000226	274.37556	287.69023	269.96314	19.05507	0.0507858	1.9239672	39	1	112 days	0.52	M-v	4	Williams	38851	1999 XQ ₁₄₃
1999 XS ₁₄₃	9.7	0.15	20000226	63.14132	92.85053	306.92148	22.02069	0.0652415	5.1990286	57	1	121 days	0.46	M-v	4	Williams	38851	1999 XS ₁₄₃
1999 XU ₁₄₃	14.7	0.15	20000226	171.58134	210.76243	100.01678	5.48554	0.1783346	2.1720935	64	2	1998–2000	0.68	M-v	3	Williams	38599	1999 XU ₁₄₃
1999 XA ₁₄₄	14.8	0.15	20000226	279.44118	140.46282	39.25626	7.48764	0.0608132	2.3399832	48	1	116 days	0.63	M-v	4	Williams	38852	1999 XA ₁₄₄
1999 XE ₁₄₄	13.7	0.15	20000226	62.62390	240.21980	139.51394	3.38520	0.1364869	2.6275762	53	1	146 days	0.53	M-v	4	Williams	39563	1999 XE ₁₄₄
1999 XF ₁₄₄	13.0	0.15	20000226	338.64312	82.94568	65.75532	13.30697	0.1387376	2.5706747	51	3	1976–2000	0.52	M-v	2	Williams	39563	1999 XF ₁₄₄
1999 XG ₁₄₄	13.4	0.15	20000226	90.60077	304.12515	76.66457	22.80232	0.0742837	2.6339367	51	4	1986–2000	0.62	M-v	1	Williams	39330	1999 XG ₁₄₄
1999 XH ₁₄₄	13.7	0.15	20000226	56.07713	342.06904	62.15335	14.98739	0.1916257	2.7043128	60	2	1997–2000	0.56	M-v	3	Williams	39563	1999 XH ₁₄₄
1999 XJ ₁₄₄	13.4	0.15	20000226	63.95194	329.33674	66.31671	13.51338	0.1840327	2.7172946	28	1	106 days	0.51	M-v	5	Williams		1999 XJ ₁₄₄
1999 XL ₁₄₄	14.7	0.15	20000226	43.86569	67.56267	2.41005	7.89635	0.1188439	2.3701434	44	1	133 days	0.60	M-v	4	Williams	38852	1999 XL ₁₄₄
1999 XM ₁₄₄	13.5	0.15	20000226	327.71098	99.64065	72.88071	16.01698	0.2121471	2.7987485	41	1	166 days	0.44	M-v	4	Williams	38852	1999 XM ₁₄₄
1999 XN ₁₄₄	14.5	0.15	20000226	304.80827	122.61974	49.92633	5.68435	0.1882951	2.5490675	43	1	121 days	0.60	M-v	4	Williams	38852	1999 XN ₁₄₄
1999 XR ₁₄₄	14.7	0.15	20000226	33.68667	116.05608	306.85332	4.08739	0.1144590	2.2652015	50	1	121 days	0.47	M-v	3	Williams	38852	1999 XR ₁₄₄
1999 XO ₁₄₇	15.0	0.15	20000226	102.02903	262.10763	67.58644	2.94921	0.0570933	2.8905196	29	2	1997–1999	0.49	M-v	4	Williams	38852	1999 XO ₁₄₇
1999 XZ ₁₅₀	14.2	0.15	20000226	17.01574	336.38059	64.33835	14.92952	0.2828364	2.6547012	40	1	119 days	0.59	M-v	4	Williams	38161	1999 XZ ₁₅₀
1999 XB ₁₅₁	13.9	0.15	20000226	35.48576	307.78353	65.22903	13.25750	0.1941783	2.5592608	62	2	1998–2000	0.58	M-v	3	Williams	37956	1999 XB ₁₅₁
1999 XD ₁₅₁	14.5	0.15	20000226	9.69236	331.81760	79.09653	11.05471	0.1814102	2.7445121	43	1	116 days	0.64	M-v	4	Williams	38161	1999 XD ₁₅₁
1999 XP ₁₅₁	14.4	0.15	20000226	81.27756	60.66170	713.07041	2.59459	0.2325662	2.6791515	48	2	1998–2000	0.52	M-v	3	Williams	38599	1999 XP ₁₅₁
1999 XW ₁₅₁	15.4	0.15	20000226	328.93998	237.36304	294.24858	3.75258	0.1926197	2.3081793	30	1	88 days	0.34	M-v	4	Williams	39563	1999 XW ₁₅₁
1999 XX ₁₅₁	14.2	0.15	20000226	333.82010	201.95824	318.67861	1.59342	0.1492229	2.3730607	99	2	1998–2000	0.66	M-v	3	Williams	39563	1999 XX ₁₅₁
1999 XK ₁₅₂	14.3	0.15	20000226	2.40859	329.49049	100.29110	4.76622	0.1987532	2.3590877	62	2	1981–2000	0.49	M-v	3	Williams	38852	1999 XK ₁₅₂
1999 XP ₁₅₂	14.1	0.15	20000226	356.64784	354.89113	67.49354	14.59700	0.1280672	2.5964416	45	1	119 days	0.68	M-v	4	Williams	38161	1999 XP ₁₅₂
1999 XQ ₁₅₂	14.1	0.15	20000226	322.64282	327.55617	149.20517	6.07968	0.0561260	2.6524349	44	1	91 days	0.57	M-v	4	Williams	38852	1999 XQ ₁₅₂
1999 XT ₁₅₂	15.5	0.15	20000226	344.36912	313.98072	160.74386	3.59533	0.1256200	2.3223352	53	3	1995–1999	0.64	M-v	3	Williams	39331	1999 XT ₁₅₂
1999 XN ₁₅₃	13.6	0.15	20000226	54.39815	151.50210	258.43186	8.19221	0.1750033	2.7495547	77	2	1998–2000	0.53	M-v	3	Williams	39563	1999 XN ₁₅₃
1999 XO ₁₅₃	14.5	0.15	20000226	331.51225	258.58692	268.73481	12.83168	0.1744115	2.5482397	27	1	118 days	0.49	M-v	4	Williams		1999 XO ₁₅₃
1999 XS ₁₅₃	13.3	0.15	20000226	69.22827	271.85214	122.61755	13.41720	0.1773253	3.0983149	41	1	116 days	0.59	M-v	4	Williams	38852	1999 XS ₁₅₃
1999 XD ₁₅₄	14.1	0.15	20000226	337.59908	299.32779	185.87117	3.52963	0.0297424	2.7939907	38	2	1998–2000	0.48	M-v	4	Williams	38600	1999 XD ₁₅₄
1999 XH ₁₅₄	14.0	0.15	20000226	322.34253	268.65623	233.82709	8.59712	0.1300499	2.7686854	44	2	1998–2000	0.70	M-v	4	Williams	37957	1999 XH ₁₅₄
1999 XM ₁₅₄	15.1	0.15	20000226	110.03631	230.94087	100.99955	6.84329	0.1382530	2.3164686	25	1	63 days	0.60	M-v	5	Williams	38161	1999 XM ₁₅₄
1999 XD ₁₅₅	14.4	0.15	20000226	42.14193	153.59696	240.74667	9.55599	0.2272526	3.1351039	27	1	64 days	0.62	M-v	5	Williams	38852	1999 XD ₁₅₅

1999 XP ₁₅₅	14.1	0.15	20000226	23.72514	187.88676	243.98230	14.35746	0.0715095	2.6817798	38	1	135 days	0.52	M-v	3	Williams	39563	1999 XP ₁₅₅
1999 XT ₁₅₅	15.2	0.15	20000226	37.24930	162.79314	239.18666	7.26144	0.3215156	2.5576110	65	1	156 days	0.52	M-v	3	Williams	39563	1999 XT ₁₅₅
1999 XU ₁₅₅	13.7	0.15	20000226	349.38008	319.28400	150.93086	3.54139	0.1006861	2.9984702	29	1	88 days	0.44	M-v	4	Williams	38161	1999 XU ₁₅₅
1999 XB ₁₅₆	14.4	0.15	20000226	304.83126	282.64264	246.18724	11.95097	0.1372079	2.6462859	29	1	64 days	0.55	M-v	5	Williams	38852	1999 XB ₁₅₆
1999 XD ₁₅₆	14.8	0.15	20000226	216.82946	147.16121	101.85643	6.98773	0.1081876	2.2104419	33	1	63 days	0.50	M-v	5	Williams	38852	1999 XD ₁₅₆
1999 XO ₁₅₆	14.1	0.15	20000226	97.57807	210.70470	135.84069	4.63562	0.1252507	2.7394477	47	2	1998–2000	0.61	M-v	3	Williams	37958	1999 XO ₁₅₆
1999 XR ₁₅₆	15.2	0.15	20000226	344.43483	260.03436	224.32313	4.68761	0.0655090	2.2968128	33	3	1978–2000	0.59	M-v	2	Williams	38852	1999 XR ₁₅₆
1999 XZ ₁₅₆	14.2	0.15	20000226	74.14529	183.84266	200.06608	3.74354	0.0665709	2.2846398	37	1	135 days	0.42	M-v	4	Williams	39563	1999 XZ ₁₅₆
1999 XF ₁₅₇	14.1	0.15	20000226	91.44326	231.69961	128.59978	4.97343	0.0971182	2.6143531	42	4	1981–2000	0.61	M-v	1	Williams	37959	1999 XF ₁₅₇
1999 XK ₁₅₇	14.1	0.15	20000226	167.40768	191.26727	106.80034	8.56913	0.0282022	2.2523742	63	3	1991–2000	0.56	M-v	3	Williams	39563	1999 XK ₁₅₇
1999 XL ₁₅₇	14.5	0.15	20000226	207.69838	139.39486	119.63074	6.27435	0.0594529	2.3968338	45	3	1993–2000	0.60	M-v	4	Williams	37959	1999 XL ₁₅₇
1999 XM ₁₅₇	15.1	0.15	20000226	75.70378	160.75992	213.70752	3.90992	0.1573870	2.3135847	42	2	1997–2000	0.58	M-v	4	Williams	38852	1999 XM ₁₅₇
1999 XT ₁₅₇	13.4	0.15	20000226	82.75299	124.29170	247.79030	10.11481	0.0644290	3.0581035	49	2	1998–2000	0.62	M-v	3	Williams	39563	1999 XT ₁₅₇
1999 XW ₁₅₇	14.2	0.15	20000226	49.09111	307.28091	97.68704	14.29153	0.1470443	2.5723202	50	1	124 days	0.56	M-v	4	Williams	38853	1999 XW ₁₅₇
1999 XY ₁₅₇	14.1	0.15	20000226	58.66737	148.25523	239.87982	8.48643	0.1783371	2.8574986	33	1	76 days	0.45	M-v	4	Williams	38853	1999 XY ₁₅₇
1999 XC ₁₅₈	12.7	0.15	20000226	146.18914	205.73817	104.90924	11.41769	0.0871141	2.9994483	30	1	146 days	0.55	M-v	4	Williams	39563	1999 XC ₁₅₈
1999 XD ₁₅₈	13.6	0.15	20000226	71.77220	245.83127	128.04583	4.10410	0.1862748	2.7493719	42	1	146 days	0.46	M-v	4	Williams	39563	1999 XD ₁₅₈
1999 XE ₁₅₈	14.7	0.15	20000226	316.31750	296.12903	235.25092	4.51373	0.1554535	2.2906518	35	1	109 days	0.41	M-v	4	Williams	39564	1999 XE ₁₅₈
1999 XF ₁₅₈	14.6	0.15	20000226	343.89508	249.61262	243.26607	5.38631	0.0781452	2.2488699	49	3	1997–2000	0.64	M-v	3	Williams	38853	1999 XF ₁₅₈
1999 XJ ₁₅₉	14.3	0.15	20000226	69.24467	276.95172	114.18204	7.24134	0.1067013	2.2863039	51	1	116 days	0.50	M-v	4	Williams	39564	1999 XJ ₁₅₉
1999 XO ₁₅₉	13.9	0.15	20000226	67.18394	133.37783	257.43333	13.93741	0.1124611	2.5749142	30	1	86 days	0.36	M-v	4	Williams	38162	1999 XO ₁₅₉
1999 XQ ₁₅₉	14.4	0.15	20000226	103.07877	244.02764	108.68469	7.29867	0.1348514	2.3331625	37	2	1998–2000	0.64	M-v	4	Williams	38853	1999 XQ ₁₅₉
1999 XR ₁₅₉	13.5	0.15	20000226	70.54126	266.57288	118.70183	5.70692	0.1225398	2.7312973	68	3	1997–2000	0.47	M-v	2	Williams	39564	1999 XR ₁₅₉
1999 XV ₁₅₉	14.5	0.15	20000226	23.74135	337.23292	104.49091	12.51096	0.1592610	2.6114657	39	1	113 days	0.33	M-v	3	Williams	38853	1999 XV ₁₅₉
1999 XA ₁₆₀	11.2	0.15	20000226	4.05264	3.74536	100.93256	20.99178	0.1096407	3.1453715	69	1	175 days	0.44	M-v	3	Williams	39564	1999 XA ₁₆₀
1999 XB ₁₆₀	14.2	0.15	20000226	353.19232	286.52604	198.80736	3.53839	0.1934518	2.8498904	43	2	1998–2000	0.51	M-v	3	Williams	38853	1999 XB ₁₆₀
1999 XR ₁₆₀	13.6	0.15	20000226	62.38496	143.53624	260.80216	8.70926	0.0774560	3.0746195	41	3	1997–2000	0.58	M-v	3	Williams	38853	1999 XR ₁₆₀
1999 XV ₁₆₀	14.2	0.15	20000226	15.71659	193.89120	265.27378	9.34981	0.1947819	3.0948728	41	1	104 days	0.56	M-v	3	Williams	38853	1999 XV ₁₆₀
1999 XB ₁₆₁	14.6	0.15	20000226	32.96437	7.10691	38.63056	9.57553	0.2388983	2.7681278	45	1	115 days	0.52	M-v	4	Williams	38853	1999 XB ₁₆₁
1999 XE ₁₆₁	14.0	0.15	20000226	351.88982	164.82144	322.91342	11.38075	0.0866064	2.9699352	46	1	61 days	0.48	M-v	4	Williams	38853	1999 XE ₁₆₁
1999 XS ₁₆₂	15.5	0.15	20000226	357.66547	77.73875	9.12297	18.54176	0.0627869	1.8265363	63	3	1994–2000	0.47	M-v	1	Williams	39331	1999 XS ₁₆₂
1999 XW ₁₆₂	16.1	0.15	20000226	341.04045	31.72648	121.25326	2.96815	0.1564022	2.3324985	39	2	1993–2000	0.45	M-v	4	Williams	39564	1999 XW ₁₆₂
1999 XA ₁₆₃	14.9	0.15	20000226	49.21168	179.27664	250.47097	1.54595	0.0759460	2.2340912	65	3	1977–2000	0.58	M-v	2	Williams	39564	1999 XA ₁₆₃
1999 XO ₁₆₃	15.5	0.15	20000226	35.69338	336.40395	100.67886	2.81128	0.1861737	2.6540297	42	1	65 days	0.34	M-v	4	Williams	38853	1999 XO ₁₆₃
1999 XV ₁₆₃	12.9	0.15	20000226	171.63422	215.41698	102.77239	13.26120	0.1076197	2.7296626	49	1	134 days	0.60	M-v	4	Williams	39564	1999 XV ₁₆₃
1999 XW ₁₆₃	14.3	0.15	20000226	30.15842	147.00125	307.01316	10.76612	0.1819500	2.5729806	82	2	1998–2000	0.57	M-v	3	Williams	39564	1999 XW ₁₆₃
1999 XY ₁₆₃	13.7	0.15	20000226	303.88520	213.65244	286.00710	3.37366	0.0725708	2.7179758	52	1	144 days	0.53	M-v	4	Williams	39564	1999 XY ₁₆₃
1999 XE ₁₆₄	14.6	0.15	20000226	38.00841	27.87658	52.77985	2.79409	0.2635632	2.6632471	75	3	1977–2000	0.63	M-v	2	Williams	39564	1999 XE ₁₆₄
1999 XF ₁₆₄	13.1	0.15	20000226	247.28230	158.02341	126.01325	24.00372	0.2505031	2.3965574	42	1	137 days	0.60	M-v	4	Williams	39564	1999 XF ₁₆₄
1999 XG ₁₆₄	13.6	0.15	20000226	39.93617	339.81515	97.36052	14.95146	0.1592145	2.6943622	52	1	165 days	0.45	M-v	3	Williams	38853	1999 XG ₁₆₄
1999 XH ₁₆₄	13.8	0.15	20000226	59.56187	311.66807	95.01335	10.97510	0.2084799	2.7519792	56	1	112 days	0.37	M-v	4	Williams	38853	1999 XH ₁₆₄
1999 XJ ₁₆₄	14.2	0.15	20000226	300.19678	282.75834	295.79239	22.16979	0.2546642	2.3347255	51	2	1990–2000	0.58	M-v	4	Williams	39564	1999 XJ ₁₆₄
1999 XK ₁₆₄	14.8	0.15	20000226	108.95260	285.34644	88.58504	6.61033	0.0727459	2.1970333	46	1	112 days	0.53	M-v	4	Williams	38853	1999 XK ₁₆₄
1999 XL ₁₆₄	14.0	0.15	20000226	97.62981	279.24079	85.82990	8.55744	0.2463929	2.3256805	77	2	1998–2000	0.49	M-v	3	Williams	39564	1999 XL ₁₆₄
1999 XM ₁₆₄	13.3	0.15	20000226	327.92620	76.43814	101.19154	17.51490	0.1843997	3.1109095	52	1	163 days	0.46	M-v	3	Williams	38853	1999 XM ₁₆₄
1999 XN ₁₆₄	12.8	0.15	20000226	132.46864	246.19770	98.23270	10.04344	0.1698028	2.7699507	57	1	163 days	0.62	M-v	4	Williams	39564	1999 XN ₁₆₄
1999 XO ₁₆₄	13.9	0.15	20000226	165.42965	231.22412	90.16417	8.32494	0.1929265	2.2083845	53	1	134 days	0.59	M-v	4	Williams	39564	1999 XO ₁₆₄
1999 XP ₁₆₄	12.3	0.15	20000226	227.30117	173.83371	101.65109	15.40624	0.1301138	2.9831591	37	1	147 days	0.41	M-v	4	Williams	39564	1999 XP ₁₆₄
1999 XQ ₁₆₄	15.7	0.15	20000226	1.51170	197.75559	300.79354	17.81707	0.0734035	1.9300396	50	1	89 days	0.58	M-v	4	Williams	39564	1999 XQ ₁₆₄
1999 XR ₁₆₄	15.1	0.15	20000226	53.32666	338.17312	83.15936	8.56789	0.2296668	2.3094549	36	1	132 days	0.46	M-v	4	Williams	39564	1999 XR ₁₆₄
1999 XT ₁₆₄	14.9	0.15	20000226	352.80613	97.26868	55.81438	4.57724	0.2143922	2.6544126	36	1	138 days	0.63	M-v	4	Williams	39564	1999 XT ₁₆₄
1999 XU ₁₆₄	15.2	0.15	20000226	354.48667	201.24505	309.37240	8.00828	0.2042128	2.4306812	64	1	139 days	0.48	M-v	3	Williams	39564	1999 XU ₁₆₄
1999 XW ₁₆₄	14.7	0.15	20000226	31.38931	1.46169	96.78258	8.28622	0.1745133	2.3862393	53	2	1995–2000	0.44	M-v	3	Williams	39564	1999 XW ₁₆₄

1999 XX ₁₆₄	14.6	0.15	20000226	353.43613	200.78038	313.29028	10.54570	0.2028360	2.5685955	91	1	126 days	0.51	M-v	3	Williams	39564	1999 XX ₁₆₄
1999 XY ₁₆₄	14.5	0.15	20000226	0.75095	120.63996	21.46596	3.41060	0.1191630	2.4300415	89	2	1998–2000	0.56	M-v	3	Williams	39564	1999 XY ₁₆₄
1999 XB ₁₆₅	14.4	0.15	20000226	46.22284	77.03719	4.64340	4.49458	0.1718349	2.3061219	66	2	1981–2000	0.54	M-v	3	Williams	39564	1999 XB ₁₆₅
1999 XD ₁₆₅	13.9	0.15	20000226	49.67773	107.71863	323.52035	12.94740	0.2155492	2.5302468	101	3	1996–2000	0.58	M-v	2	Williams	39564	1999 XD ₁₆₅
1999 XE ₁₆₅	13.3	0.15	20000226	89.03057	43.02869	4.30265	5.38446	0.0648534	2.4141439	106	3	1987–2000	0.62	M-v	2	Williams	39564	1999 XE ₁₆₅
1999 XG ₁₆₅	13.6	0.15	20000226	49.87953	349.38371	98.72274	16.30138	0.0922225	2.6060136	17	1	95 days	0.28	M-v	5	Williams		1999 XG ₁₆₅
1999 XJ ₁₆₅	14.0	0.15	20000226	53.41999	111.13456	324.67506	12.01408	0.1687796	2.5635036	88	2	1998–2000	0.60	M-v	3	Williams	39564	1999 XJ ₁₆₅
1999 XK ₁₆₅	14.6	0.15	20000226	40.60781	32.98886	62.66470	5.15996	0.1410883	2.5575909	67	2	1996–2000	0.55	M-v	4	Williams	39564	1999 XK ₁₆₅
1999 XN ₁₆₅	13.2	0.15	20000226	1.74134	63.96386	82.48568	10.65206	0.0665015	2.4771847	56	2	1998–2000	0.51	M-v	3	Williams	39564	1999 XN ₁₆₅
1999 XP ₁₆₅	12.9	0.15	20000226	87.27491	311.81284	102.52369	15.69216	0.0866190	2.6019052	31	1	95 days	0.31	M-v	4	Williams		1999 XP ₁₆₅
1999 XR ₁₆₅	15.4	0.15	20000226	294.30041	271.55956	299.01655	17.53635	0.0554022	1.9182621	42	1	89 days	0.54	M-v	4	Williams	39564	1999 XR ₁₆₅
1999 XS ₁₆₅	14.8	0.15	20000226	0.29754	59.57458	80.61417	3.79006	0.1095040	2.2630542	55	3	1992–2000	0.49	M-v	2	Williams	38854	1999 XS ₁₆₅
1999 XT ₁₆₅	14.6	0.15	20000226	27.04652	10.19340	92.84235	4.71092	0.1882144	2.6842372	80	1	138 days	0.56	M-v	4	Williams	39564	1999 XT ₁₆₅
1999 XU ₁₆₅	15.1	0.15	20000226	7.73711	155.30493	338.85995	5.88701	0.1342701	2.2511219	75	3	1990–2000	0.57	M-v	2	Williams	39564	1999 XU ₁₆₅
1999 XZ ₁₆₅	14.2	0.15	20000226	336.50877	114.80637	63.36519	7.38194	0.0470068	2.3225686	40	1	126 days	0.61	M-v	4	Williams		1999 XZ ₁₆₅
1999 XA ₁₆₆	13.1	0.15	20000226	127.10403	8.13324	280.72887	12.49143	0.1505161	2.6826820	34	1	118 days	0.61	M-v	4	Williams	38854	1999 XA ₁₆₆
1999 XD ₁₆₆	14.4	0.15	20000226	355.83865	62.18525	28.21638	12.44564	0.1781508	2.6358281	62	1	120 days	0.51	M-v	4	Williams	38854	1999 XD ₁₆₆
1999 XF ₁₆₆	13.1	0.15	20000226	74.25453	53.13508	267.20228	12.96631	0.2809420	3.1775869	47	2	1993–2000	0.58	M-v	4	Williams	37966	1999 XF ₁₆₆
1999 XJ ₁₆₆	14.2	0.15	20000226	24.19132	135.75475	271.64512	14.75586	0.2344623	2.8523715	54	1	142 days	0.53	M-v	3	Williams	39564	1999 XJ ₁₆₆
1999 XP ₁₆₆	13.3	0.15	20000226	42.76114	88.94972	300.52040	7.46696	0.1529958	2.7924072	56	3	1980–2000	0.69	M-v	2	Williams	39564	1999 XP ₁₆₆
1999 XR ₁₆₆	13.2	0.15	20000226	324.28049	182.66638	294.19103	8.74832	0.0431418	3.1835139	53	2	1998–2000	0.69	M-v	3	Williams	38601	1999 XR ₁₆₆
1999 XZ ₁₆₆	15.3	0.15	19991208	356.55514	121.80846	310.64785	5.77785	0.1247601	2.2818174	33	1	37 days	0.45			Williams		1999 XZ ₁₆₆
1999 XA ₁₆₇	13.8	0.15	20000226	355.76059	52.19828	49.51087	11.77309	0.1979491	2.6311769	52	1	120 days	0.54	M-v	4	Williams	38854	1999 XA ₁₆₇
1999 XB ₁₆₇	12.5	0.15	20000226	199.79039	198.40119	44.53453	14.08384	0.0998463	2.9662809	68	3	1993–2000	0.59	M-v	3	Williams	38601	1999 XB ₁₆₇
1999 XC ₁₆₇	15.4	0.15	20000226	11.78497	38.49239	45.89594	7.60290	0.2474083	2.4499847	44	2	1997–2000	0.38	M-v	3	Williams	39331	1999 XC ₁₆₇
1999 XE ₁₆₇	13.1	0.15	20000226	46.69690	112.34024	273.65172	11.48360	0.1879306	2.6941388	54	1	151 days	0.46	M-v	3	Williams	39564	1999 XE ₁₆₇
1999 XG ₁₆₇	14.6	0.15	20000226	333.77419	87.80494	42.51840	5.74454	0.1109678	2.2754835	49	1	116 days	0.45	M-v	4	Williams	38854	1999 XG ₁₆₇
1999 XK ₁₆₇	13.9	0.15	20000226	29.06140	132.93850	277.57410	9.09986	0.2569194	2.7588358	42	1	129 days	0.52	M-v	3	Williams	38854	1999 XK ₁₆₇
1999 XM ₁₆₇	15.0	0.15	20000226	51.96249	341.68475	45.44535	5.67765	0.1873917	2.4352058	47	1	110 days	0.47	M-v	4	Williams	38854	1999 XM ₁₆₇
1999 XU ₁₆₇	13.4	0.15	20000226	68.82946	299.82809	53.41616	13.04735	0.2294211	3.1429656	47	2	1997–2000	0.53	M-v	3	Williams	38854	1999 XU ₁₆₇
1999 XD ₁₆₈	13.7	0.15	20000226	104.39612	263.42905	64.28618	13.99140	0.1973285	2.7203399	46	1	84 days	0.50	M-v	4	Williams	38854	1999 XD ₁₆₈
1999 XE ₁₆₈	12.3	0.15	20000226	255.85654	147.27220	58.31950	13.58626	0.1128457	3.1847054	51	3	1972–2000	0.56	M-v	3	Williams	38854	1999 XE ₁₆₈
1999 XF ₁₆₈	14.6	0.15	20000226	95.13269	62.15462	285.76007	5.66953	0.1435261	2.3739796	38	1	121 days	0.56	M-v	4	Williams	38854	1999 XF ₁₆₈
1999 XG ₁₆₈	15.5	0.15	20000226	51.34472	30.71938	359.36613	2.09595	0.2393970	2.3598133	38	1	109 days	0.57	M-v	4	Williams	38854	1999 XG ₁₆₈
1999 XJ ₁₆₈	15.5	0.15	20000226	34.06372	40.47406	0.45550	3.40802	0.2255948	2.5812108	47	1	111 days	0.69	M-v	4	Williams	38854	1999 XJ ₁₆₈
1999 XL ₁₆₈	13.1	0.15	20000226	279.11199	197.82191	331.86925	6.79549	0.0648506	2.6813319	54	3	1992–2000	0.56	M-v	3	Williams	38854	1999 XL ₁₆₈
1999 XN ₁₆₈	13.0	0.15	20000226	131.91609	274.15728	22.70181	9.25212	0.1460295	2.7707533	53	2	1980–2000	0.66	M-v	4	Williams	38601	1999 XN ₁₆₈
1999 XQ ₁₆₈	15.6	0.15	19991208	322.85501	135.49253	347.12360	3.28538	0.1995846	2.6032155	31	1	58 days	0.63			Williams		1999 XQ ₁₆₈
1999 XS ₁₆₈	13.7	0.15	20000226	278.80950	227.11498	311.67959	5.69168	0.0698435	2.3966238	26	2	1995–2000	0.47	M-v	4	Williams	38601	1999 XS ₁₆₈
1999 XV ₁₆₈	13.8	0.15	20000226	18.06931	31.70529	35.41509	6.80108	0.1562274	3.1928355	31	1	121 days	0.57	M-v	3	Williams	38854	1999 XV ₁₆₈
1999 XY ₁₆₈	13.4	0.15	20000226	341.50368	210.52125	272.83106	12.15473	0.1135427	2.6706904	56	2	1998–2000	0.53	M-v	3	Williams	39564	1999 XY ₁₆₈
1999 XZ ₁₆₈	14.0	0.15	20000226	291.27969	260.11806	283.67564	7.99288	0.1102893	2.2463614	55	2	1998–2000	0.63	M-v	4	Williams	39564	1999 XZ ₁₆₈
1999 XB ₁₆₉	14.9	0.15	20000226	0.64221	85.88508	22.90933	3.76908	0.1338745	2.3234904	39	3	1976–2000	0.64	M-v	2	Williams	38854	1999 XB ₁₆₉
1999 XE ₁₆₉	14.2	0.15	20000226	274.63428	151.60656	43.47567	5.41582	0.0619503	2.5826948	34	2	1998–2000	0.51	M-v	4	Williams	38602	1999 XE ₁₆₉
1999 XF ₁₆₉	15.2	0.15	20000226	74.44244	75.91728	297.09607	5.99615	0.1769320	2.2279261	47	2	1997–2000	0.58	M-v	4	Williams	39564	1999 XF ₁₆₉
1999 XG ₁₆₉	14.7	0.15	20000226	41.90963	24.13774	31.78247	3.93270	0.1531968	2.2947700	58	4	1978–2000	0.59	M-v	2	Williams	38854	1999 XG ₁₆₉
1999 XJ ₁₆₉	14.1	0.15	20000226	3.01030	59.75266	41.75895	6.09228	0.1155372	2.8150455	54	3	1989–2000	0.67	M-v	3	Williams	37968	1999 XJ ₁₆₉
1999 XK ₁₆₉	13.0	0.15	20000226	50.12539	114.45126	286.39153	10.70075	0.1201161	2.9698889	64	3	1995–2000	0.58	M-v	2	Williams	39564	1999 XK ₁₆₉
1999 XO ₁₆₉	13.2	0.15	20000226	89.35958	51.32442	294.36009	9.55541	0.2732368	2.6713889	54	4	1972–2000	0.65	M-v	2	Williams	39564	1999 XO ₁₆₉
1999 XQ ₁₆₉	14.1	0.15	20000226	127.90668	353.79120	332.50125	4.40438	0.1693357	2.2780693	49	5	1978–2000	0.55	M-v	1	Williams	38602	1999 XQ ₁₆₉
1999 XS ₁₆₉	14.5	0.15	20000226	334.89050	185.32995	325.28010	4.06812	0.1320399	2.2783157	58	3	1995–2000	0.69	M-v	3	Williams	38855	1999 XS ₁₆₉
1999 XT ₁₆₉	14.2	0.15	20000226	0.99294	75.88085	44.53359	4.90787	0.1979472	2.4201542	62	4	1989–2000	0.72	M-v	2	Williams	38855	1999 XT ₁₆₉
1999 XU ₁₆₉	12.7	0.15	20000226	104.79095	272.28730	76.43306	13.46360	0.1441140	3.2107592	62	3	1991–2000	0.57	M-v	3	Williams	38855	1999 XU ₁₆₉

1999 XN ₁₇₀	13.2	0.15	20000226	51.95141	339.44575	74.08202	11.03530	0.0875108	3.0176690	39	1	121 days	0.56	M-v	4	Williams	38855	1999 XN ₁₇₀
1999 XW ₁₇₀	13.2	0.15	20000226	149.86283	359.04172	309.09172	7.33356	0.1465681	2.7750001	66	4	1982-2000	0.83	M-v	2	Williams	38603	1999 XW ₁₇₀
1999 XZ ₁₇₀	14.0	0.15	20000226	104.18052	340.86135	5.10245	4.57406	0.1929293	2.5331427	44	2	1998-2000	0.62	M-v	3	Williams	38603	1999 XZ ₁₇₀
1999 XH ₁₇₁	14.3	0.15	20000226	332.98732	89.21877	65.34188	4.78570	0.1453354	2.6827086	48	2	1996-2000	0.41	M-v	4	Williams	38855	1999 XH ₁₇₁
1999 XO ₁₇₁	14.5	0.15	20000226	58.63992	52.06472	343.49776	4.37293	0.2071925	2.6742217	33	2	1992-2000	0.43	M-v	4	Williams	38604	1999 XO ₁₇₁
1999 XS ₁₇₁	13.7	0.15	20000226	128.38053	327.00433	8.56671	4.92407	0.1158779	2.8345481	58	2	1998-2000	0.52	M-v	4	Williams	38604	1999 XS ₁₇₁
1999 XW ₁₇₁	13.7	0.15	20000226	84.12674	292.99808	75.99339	13.59194	0.1999810	2.5735802	55	1	150 days	0.55	M-v	4	Williams	39565	1999 XW ₁₇₁
1999 XA ₁₇₂	14.3	0.15	20000226	88.70264	63.00725	314.50097	6.59658	0.1142919	2.2369323	59	5	1981-2000	0.51	M-v	1	Williams	38855	1999 XA ₁₇₂
1999 XE ₁₇₂	13.9	0.15	20000226	84.41079	53.18120	322.99061	5.12753	0.1586378	2.3441741	60	4	1952-2000	0.53	M-v	1	Williams	38604	1999 XE ₁₇₂
1999 XF ₁₇₂	13.0	0.15	20000226	323.43570	88.95100	78.15019	8.93882	0.1624429	3.1367085	40	1	122 days	0.43	M-v	4	Williams	38855	1999 XF ₁₇₂
1999 XL ₁₇₂	13.7	0.15	20000226	65.19106	74.98650	329.87890	4.63506	0.0933196	2.5248597	46	1	121 days	0.43	M-v	4	Williams		1999 XL ₁₇₂
1999 XN ₁₇₂	13.3	0.15	20000226	334.11782	97.22956	63.11542	7.40078	0.2204329	3.1139748	46	1	142 days	0.47	M-v	4	Williams	38855	1999 XN ₁₇₂
1999 XV ₁₇₂	13.1	0.15	20000226	51.02998	329.56702	87.97754	14.10518	0.1087665	3.1127462	64	4	1991-2000	0.51	M-v	3	Williams	39333	1999 XV ₁₇₂
1999 XW ₁₇₂	12.9	0.15	20000226	25.58918	154.23474	294.33957	16.40511	0.0827051	3.2041004	75	3	1997-2000	0.57	M-v	2	Williams	39565	1999 XW ₁₇₂
1999 XX ₁₇₂	14.3	0.15	20000226	283.13420	181.29932	33.45344	3.23485	0.1513312	2.5486683	26	1	63 days	0.54	M-v	5	Williams	38855	1999 XX ₁₇₂
1999 XZ ₁₇₂	13.9	0.15	20000226	17.40883	153.00916	307.69045	8.30346	0.1172960	2.7865705	52	1	142 days	0.69	M-v	3	Williams	39565	1999 XZ ₁₇₂
1999 XB ₁₇₃	14.8	0.15	20000226	74.57186	331.52067	51.38572	4.89535	0.2192132	2.2974544	36	1	87 days	0.41	M-v	4	Williams	38855	1999 XB ₁₇₃
1999 XC ₁₇₃	14.3	0.15	20000226	15.42570	47.79154	59.09315	6.12488	0.0757290	2.3634268	47	1	121 days	0.41	M-v	3	Williams	38855	1999 XC ₁₇₃
1999 XD ₁₇₃	14.3	0.15	20000226	41.77935	354.85091	73.63005	8.09780	0.1827145	2.3719475	42	1	142 days	0.40	M-v	4	Williams	39565	1999 XD ₁₇₃
1999 XJ ₁₇₃	13.0	0.15	20000226	322.34936	204.66508	319.30048	9.09166	0.0681793	2.6589409	73	2	1998-2000	0.57	M-v	3	Williams	39565	1999 XJ ₁₇₃
1999 XK ₁₇₃	14.5	0.15	20000226	14.18860	125.40500	341.72121	5.91147	0.1065125	2.4799246	65	4	1977-2000	0.59	M-v	2	Williams	38855	1999 XK ₁₇₃
1999 XO ₁₇₃	14.4	0.15	20000226	119.80061	284.08573	62.71336	4.48288	0.1777761	2.2906849	49	1	122 days	0.53	M-v	4	Williams	38856	1999 XO ₁₇₃
1999 XS ₁₇₃	12.9	0.15	20000226	132.64699	238.87821	90.73684	13.18091	0.2700108	2.5577680	68	1	122 days	0.48	M-v	4	Williams	38856	1999 XS ₁₇₃
1999 XU ₁₇₃	14.4	0.15	20000226	21.09008	6.37099	89.87518	18.43582	0.2035009	2.7341752	47	1	132 days	0.50	M-v	3	Williams	38856	1999 XU ₁₇₃
1999 XV ₁₇₃	14.0	0.15	20000226	345.69073	74.69001	72.18954	9.41500	0.1320555	2.3750857	56	2	1997-2000	0.62	M-v	3	Williams	38856	1999 XV ₁₇₃
1999 XG ₁₇₄	14.9	0.15	20000226	251.37179	171.03029	73.77380	7.85995	0.1041528	2.3005669	37	2	1995-2000	0.55	M-v	4	Williams	38605	1999 XG ₁₇₄
1999 XJ ₁₇₄	14.2	0.15	20000226	56.66988	353.58103	64.77791	6.13742	0.1316928	2.2694746	60	1	156 days	0.51	M-v	4	Williams	39565	1999 XJ ₁₇₄
1999 XO ₁₇₄	14.3	0.15	20000226	100.76673	290.45901	81.48193	9.37501	0.1176319	2.4178672	42	1	112 days	0.42	M-v	4	Williams	38856	1999 XO ₁₇₄
1999 XQ ₁₇₄	13.1	0.15	20000226	200.55321	193.36024	93.65817	15.13978	0.0919335	2.5881496	45	1	109 days	0.54	M-v	4	Williams	38856	1999 XQ ₁₇₄
1999 XU ₁₇₄	14.3	0.15	20000226	349.06119	55.80681	86.27068	13.89509	0.1249002	2.6876262	38	1	136 days	0.51	M-v	4	Williams	39565	1999 XU ₁₇₄
1999 XY ₁₇₄	13.8	0.15	20000226	3.35904	79.24890	46.58785	5.99763	0.0931270	2.2461018	45	1	149 days	0.42	M-v	3	Williams		1999 XY ₁₇₄
1999 XE ₁₇₅	14.3	0.15	20000226	39.98167	56.08889	8.48948	5.30325	0.2716915	2.5588511	40	1	142 days	0.60	M-v	4	Williams	39565	1999 XE ₁₇₅
1999 XH ₁₇₅	14.1	0.15	20000226	5.89048	179.72158	302.34798	13.36030	0.2996060	2.8614556	76	2	1998-2000	0.52	M-v	3	Williams	39565	1999 XH ₁₇₅
1999 XJ ₁₇₅	14.4	0.15	20000226	90.84759	336.96922	38.20388	4.71675	0.1943489	2.2688214	39	1	87 days	0.50	M-v	4	Williams	38856	1999 XJ ₁₇₅
1999 XO ₁₇₅	12.6	0.15	20000226	247.91049	296.54670	313.07140	11.47135	0.1141828	2.7169998	74	3	1978-2000	0.58	M-v	2	Williams	39334	1999 XO ₁₇₅
1999 XP ₁₇₅	13.9	0.15	20000226	143.99398	329.36483	2.47654	4.00640	0.1734075	2.6069845	63	2	1998-2000	0.56	M-v	3	Williams	38605	1999 XP ₁₇₅
1999 XQ ₁₇₅	14.3	0.15	20000226	76.45343	68.18522	324.72108	6.40298	0.1759513	2.2603886	53	2	1990-2000	0.55	M-v	4	Williams	39565	1999 XQ ₁₇₅
1999 XZ ₁₇₅	14.3	0.15	20000226	65.44738	315.22482	79.25694	15.13358	0.2539552	2.6466530	43	1	127 days	0.56	M-v	4	Williams	39565	1999 XZ ₁₇₅
1999 XD ₁₇₆	13.2	0.15	20000226	322.48615	103.87675	72.39597	9.46469	0.1197470	3.0018692	29	1	117 days	0.47	M-v	4	Williams		1999 XD ₁₇₆
1999 XE ₁₇₆	14.1	0.15	20000226	275.33142	155.06911	64.08566	7.32214	0.0310902	2.3055917	28	1	99 days	0.38	M-v	4	Williams	38856	1999 XE ₁₇₆
1999 XG ₁₇₆	14.2	0.15	20000226	339.20376	103.40090	59.63556	6.03772	0.1582129	2.4253857	75	3	1996-2000	0.56	M-v	2	Williams	39565	1999 XG ₁₇₆
1999 XK ₁₇₆	14.0	0.15	20000226	352.03856	200.09052	308.08862	15.01007	0.2248552	2.6883242	56	1	150 days	0.48	M-v	3	Williams	39565	1999 XK ₁₇₆
1999 XL ₁₇₆	13.9	0.15	20000226	306.25678	128.35875	78.60022	11.21830	0.1912121	2.4097800	38	1	132 days	0.44	M-v	4	Williams	39565	1999 XL ₁₇₆
1999 XM ₁₇₆	13.6	0.15	20000226	83.77160	326.96958	71.31717	10.05805	0.0692427	2.5900545	40	1	139 days	0.53	M-v	4	Williams	39565	1999 XM ₁₇₆
1999 XN ₁₇₆	13.6	0.15	20000226	235.97690	183.55990	80.81319	15.58124	0.1434234	2.5897004	39	1	108 days	0.55	M-v	4	Williams	38856	1999 XN ₁₇₆
1999 XR ₁₇₆	14.0	0.15	20000226	90.71029	22.37673	350.26582	9.51795	0.2349207	2.3663621	30	1	114 days	0.55	M-v	4	Williams		1999 XR ₁₇₆
1999 XU ₁₇₆	14.5	0.15	20000226	358.83085	102.75003	33.73728	6.80066	0.0818529	2.2274262	50	1	137 days	0.48	M-v	3	Williams	38856	1999 XU ₁₇₆
1999 XV ₁₇₆	12.9	0.15	20000226	136.63649	33.94414	303.47958	22.91072	0.2069461	2.3148258	76	1	174 days	0.48	M-v	4	Williams	39565	1999 XV ₁₇₆
1999 XW ₁₇₆	14.2	0.15	20000226	331.09393	97.97990	67.38949	6.50983	0.0702002	2.5855859	48	3	1992-2000	0.52	M-v	3	Williams	39565	1999 XW ₁₇₆
1999 XY ₁₇₆	14.5	0.15	20000226	19.54086	29.87645	76.87909	12.50720	0.2047830	2.6499206	50	2	1990-2000	0.63	M-v	3	Williams	38606	1999 XY ₁₇₆
1999 XD ₁₇₇	14.3	0.15	20000226	9.16332	62.20762	64.00550	6.57643	0.0994425	2.2424939	68	3	1994-2000	0.45	M-v	2	Williams	38856	1999 XD ₁₇₇
1999 XE ₁₇₇	14.7	0.15	20000226	49.23661	345.96968	84.87576	11.24360	0.1664476	2.4563007	39	1	132 days	0.56	M-v	4	Williams	39565	1999 XE ₁₇₇
1999 XK ₁₇₇	12.2	0.15	20000226	171.47650	213.78815	86.58362	16.85825	0.0650673	3.1582045	56	1	122 days	0.50	M-v	3	Williams	38856	1999 XK ₁₇₇

1999 XN ₁₇₇	14.6	0.15	20000226	330.04376	119.27199	37.68127	4.81586	0.0962740	2.5150080	36	2	1995–2000	0.55	M-v	5	Williams	38606	1999 XN ₁₇₇
1999 XE ₁₇₈	13.8	0.15	20000226	52.11038	82.91139	314.55132	11.73782	0.2811459	3.1732073	51	2	1998–2000	0.59	M-v	3	Williams	38857	1999 XE ₁₇₈
1999 XJ ₁₇₈	14.4	0.15	20000226	95.94713	57.87729	305.82469	6.48229	0.2066464	2.3602407	65	3	1973–2000	0.59	M-v	2	Williams	38857	1999 XJ ₁₇₈
1999 XM ₁₇₈	12.9	0.15	20000226	121.87573	269.10283	87.52939	12.64430	0.0331515	2.9901721	47	1	112 days	0.41	M-v	4	Williams	38857	1999 XM ₁₇₈
1999 XO ₁₇₈	15.1	0.15	20000226	83.08833	342.00979	36.48723	5.78418	0.1912852	2.4283345	24	1	63 days	0.59	M-v	5	Williams	38857	1999 XO ₁₇₈
1999 XW ₁₇₈	13.2	0.15	20000226	92.74780	295.01993	84.82082	17.99339	0.1295617	3.2021564	37	1	111 days	0.62	M-v	4	Williams	38857	1999 XW ₁₇₈
1999 XC ₁₇₉	13.7	0.15	20000226	191.68541	215.14000	85.55579	15.36193	0.1023737	2.5973006	38	3	1990–2000	0.81	M-v	3	Williams	39334	1999 XC ₁₇₉
1999 XK ₁₈₀	13.7	0.15	20000226	73.25009	338.23836	77.23022	15.23346	0.1106043	2.7732347	34	2	1989–2000	0.50	M-v	3	Williams	39565	1999 XK ₁₈₀
1999 XN ₁₈₀	14.7	0.15	20000226	26.64311	61.94723	46.86747	10.06651	0.1904850	2.6888040	20	1	92 days	0.75	M-v	5	Williams		1999 XN ₁₈₀
1999 XP ₁₈₀	13.7	0.15	20000226	54.67319	76.33771	357.84321	13.09939	0.1648744	2.5702467	37	1	143 days	0.41	M-v	4	Williams		1999 XP ₁₈₀
1999 XU ₁₈₀	13.4	0.15	20000226	45.14818	0.35944	82.27597	14.50647	0.1749344	3.1532498	16	1	93 days	0.51	M-v	6	Williams		1999 XU ₁₈₀
1999 XL ₁₈₁	13.4	0.15	20000226	100.54231	343.74644	340.94483	9.83639	0.1410461	3.0369578	40	3	1993–2000	0.68	M-v	3	Williams	37974	1999 XL ₁₈₁
1999 XN ₁₈₁	12.9	0.15	20000226	358.03141	164.37347	277.19705	20.86354	0.0444461	3.2295815	39	1	107 days	0.48	M-v	3	Williams	38857	1999 XN ₁₈₁
1999 XP ₁₈₁	13.7	0.15	20000226	262.73999	165.00143	29.00002	12.93469	0.1225071	2.6681302	31	2	1975–2000	0.53	M-v	4	Williams	37974	1999 XP ₁₈₁
1999 XT ₁₈₁	15.1	0.15	20000226	13.35805	122.44855	313.51221	7.21105	0.2969730	2.7685823	34	1	120 days	0.53	M-v	3	Williams	38857	1999 XT ₁₈₁
1999 XJ ₁₈₂	14.6	0.15	20000226	18.53243	67.31734	9.23860	5.86133	0.1249019	2.2376736	45	3	1992–2000	0.45	M-v	2	Williams	38857	1999 XJ ₁₈₂
1999 XK ₁₈₂	13.1	0.15	20000226	131.82238	6.88992	291.83389	10.97256	0.1732665	2.6487503	47	2	1998–2000	0.75	M-v	3	Williams	38607	1999 XK ₁₈₂
1999 XQ ₁₈₂	13.9	0.15	20000226	83.63454	45.51719	298.18082	12.64980	0.2041413	2.5768183	38	1	120 days	0.63	M-v	4	Williams	38857	1999 XQ ₁₈₂
1999 XU ₁₈₃	13.7	0.15	20000226	4.36770	150.80826	304.39409	8.92204	0.2902194	3.0656125	43	1	147 days	0.49	M-v	3	Williams	39565	1999 XU ₁₈₃
1999 XP ₁₈₄	14.9	0.15	20000226	341.00275	154.69754	332.06653	5.59028	0.1131575	2.4418627	26	1	120 days	0.48	M-v	4	Williams	38857	1999 XP ₁₈₄
1999 XQ ₁₈₄	15.3	0.15	20000226	347.44968	109.03320	19.21014	4.86344	0.2007791	2.3487909	40	1	121 days	0.59	M-v	4	Williams	38857	1999 XQ ₁₈₄
1999 XT ₁₈₄	13.7	0.15	20000226	244.95817	196.29050	23.74220	7.15036	0.0495697	2.3182466	34	1	129 days	0.47	M-v	4	Williams	38857	1999 XT ₁₈₄
1999 XF ₁₈₆	14.6	0.15	20000226	308.28992	143.53605	15.84840	5.19283	0.0604655	2.1724795	31	1	121 days	0.53	M-v	4	Williams	38857	1999 XF ₁₈₆
1999 XN ₁₈₇	14.9	0.15	20000226	76.42595	50.19247	344.32410	7.20835	0.0967192	2.2348406	37	1	70 days	0.46	M-v	4	Williams	38858	1999 XN ₁₈₇
1999 XY ₁₈₇	10.8	0.15	20000226	12.03584	35.41867	38.49228	17.35844	0.0509069	5.1937409	41	3	1987–2000	0.51	M-v	3	Williams	38858	1999 XY ₁₈₇
1999 XG ₁₈₈	13.2	0.15	20000226	322.29290	198.10922	304.70882	8.19916	0.0998192	2.7918854	65	4	1989–2000	0.64	M-v	2	Williams	39565	1999 XG ₁₈₈
1999 XK ₁₈₈	14.4	0.15	20000226	75.14044	66.83640	305.63702	6.30463	0.1377660	2.2943367	43	2	1997–2000	0.46	M-v	4	Williams	39565	1999 XK ₁₈₈
1999 XP ₁₈₈	13.8	0.15	20000226	24.41496	143.31735	286.68412	11.81477	0.1548183	2.6869123	39	1	142 days	0.49	M-v	3	Williams	39565	1999 XP ₁₈₈
1999 XQ ₁₈₈	14.3	0.15	20000226	5.87017	147.65432	309.62442	6.86629	0.0654389	2.3886726	34	1	147 days	0.52	M-v	3	Williams	39565	1999 XQ ₁₈₈
1999 XR ₁₈₈	12.5	0.15	20000226	282.41873	126.67412	49.43579	10.15876	0.0249796	3.0555761	46	3	1993–2000	0.67	M-v	3	Williams	38608	1999 XR ₁₈₈
1999 XU ₁₈₈	14.8	0.15	20000226	80.51124	18.15407	336.74424	5.64746	0.2419246	2.2985868	46	2	1997–2000	0.59	M-v	4	Williams	38858	1999 XU ₁₈₈
1999 XF ₁₈₉	13.6	0.15	20000226	45.01395	72.61903	326.42010	7.87124	0.1984681	2.7767137	33	1	120 days	0.44	M-v	4	Williams	38858	1999 XF ₁₈₉
1999 XK ₁₈₉	14.7	0.15	20000226	339.46741	166.63471	321.99789	6.03782	0.0840847	2.4354282	26	1	120 days	0.57	M-v	4	Williams	38858	1999 XK ₁₈₉
1999 XR ₁₈₉	14.7	0.15	20000226	86.88439	317.10680	34.81535	6.55900	0.2197244	2.3076906	25	1	119 days	0.69	M-v	4	Williams	38858	1999 XR ₁₈₉
1999 XZ ₁₈₉	13.6	0.15	20000226	67.33179	75.29838	284.09192	21.15941	0.2671811	3.0611050	37	2	1998–2000	0.63	M-v	3	Williams	38609	1999 XZ ₁₈₉
1999 XO ₁₉₀	14.2	0.15	20000226	146.07307	294.05600	13.11997	5.14019	0.1236250	2.4412221	40	3	1997–2000	0.61	M-v	3	Williams	38858	1999 XO ₁₉₀
1999 XS ₁₉₀	13.9	0.15	20000226	83.49203	71.50974	302.37492	7.66981	0.0310884	2.7490691	41	3	1980–2000	0.62	M-v	3	Williams	38609	1999 XS ₁₉₀
1999 XU ₁₉₀	14.9	0.15	20000226	356.57529	113.83838	3.65637	5.13908	0.1737864	2.3545846	41	2	1995–2000	0.54	M-v	4	Williams	38609	1999 XU ₁₉₀
1999 XY ₁₉₀	14.3	0.15	20000226	30.42538	125.00862	292.48270	9.44263	0.2243313	3.1644571	29	1	120 days	0.42	M-v	4	Williams	38858	1999 XY ₁₉₀
1999 XJ ₁₉₁	13.2	0.15	20000226	23.87905	18.63736	55.16891	17.18698	0.1053738	3.1051982	46	4	1993–2000	0.68	M-v	1	Williams	39565	1999 XJ ₁₉₁
1999 XM ₁₉₁	12.5	0.15	20000226	130.50871	37.64018	288.54364	21.20402	0.0110292	3.1676104	35	1	120 days	0.52	M-v	4	Williams	38858	1999 XM ₁₉₁
1999 XW ₁₉₁	14.9	0.15	20000226	99.97464	329.63663	14.88635	5.07745	0.2063432	2.2159910	37	3	1979–2000	0.69	M-v	3	Williams	37976	1999 XW ₁₉₁
1999 XA ₁₉₂	14.2	0.15	20000226	9.36361	102.01137	355.76256	5.76454	0.0943889	2.4667768	29	1	120 days	0.44	M-v	4	Williams	38858	1999 XA ₁₉₂
1999 XE ₁₉₂	13.8	0.15	20000226	39.62525	127.13852	289.68530	10.63272	0.1559858	2.5328729	62	3	1994–2000	0.58	M-v	2	Williams	39565	1999 XE ₁₉₂
1999 XS ₁₉₂	15.1	0.15	20000226	23.24267	92.11016	351.60903	6.87649	0.0787373	2.3271069	30	2	1995–2000	0.36	M-v	3	Williams	38858	1999 XS ₁₉₂
1999 XX ₁₉₂	13.6	0.15	20000226	353.91524	145.02479	326.49144	10.38248	0.0844926	3.0708548	36	2	1998–2000	0.79	M-v	4	Williams	38858	1999 XX ₁₉₂
1999 XA ₁₉₃	14.6	0.15	20000226	276.55120	211.25559	347.04338	7.02108	0.0590901	2.3728534	30	3	1997–2000	0.55	M-v	3	Williams	37977	1999 XA ₁₉₃
1999 XP ₁₉₃	13.8	0.15	20000226	69.63028	306.46909	69.37203	15.56813	0.2023613	2.5982326	41	2	1982–2000	0.53	M-v	3	Williams	38858	1999 XP ₁₉₃
1999 XU ₁₉₃	13.8	0.15	20000226	58.35525	89.28350	309.96853	8.30945	0.0761990	2.9691930	45	2	1998–2000	0.53	M-v	3	Williams	38611	1999 XU ₁₉₃
1999 XG ₁₉₄	14.1	0.15	20000226	355.57236	121.17991	352.97547	8.01283	0.1680080	3.1273748	22	2	1998–2000	0.54	M-v	4	Williams	38611	1999 XG ₁₉₄
1999 XY ₁₉₄	13.2	0.15	20000226	19.73823	145.09072	301.07885	12.68716	0.1273760	2.6815601	48	1	171 days	0.58	M-v	3	Williams	39565	1999 XY ₁₉₄
1999 XL ₁₉₅	12.2	0.15	20000226	230.63112	291.42349	311.52837	14.25354	0.0952382	2.5644325	64	3	1980–2000	0.58	M-v	2	Williams	38611	1999 XL ₁₉₅
1999 XJ ₁₉₇	12.9	0.15	20000226	270.07576	133.18195	74.45347	22.90064	0.0291658	2.5879242	50	2	1997–2000	0.49	M-v	4	Williams	38859	1999 XJ ₁₉₇

1999 XX ₁₉₇	13.4	0.15	20000226	33.52944	23.57617	51.47335	12.11660	0.0837194	3.0736583	33	1	115 days	0.50	M-v	4	Williams	39565	1999 XX ₁₉₇
1999 XW ₂₀₀	14.8	0.15	20000226	325.72924	212.37941	309.46749	8.81541	0.1734580	2.5351786	30	1	61 days	0.45	M-v	5	Williams	38859	1999 XW ₂₀₀
1999 XU ₂₀₂	13.9	0.15	20000226	11.81292	141.72399	317.50691	11.95588	0.1945496	3.2198624	28	1	85 days	0.43	M-v	3	Williams	39565	1999 XU ₂₀₂
1999 XW ₂₀₂	14.4	0.15	20000226	14.09057	150.64247	308.98639	13.35769	0.1398021	2.6169056	38	1	70 days	0.49	M-v	4	Williams	38859	1999 XW ₂₀₂
1999 XZ ₂₀₂	13.6	0.15	20000226	67.15949	329.77247	59.17245	14.15875	0.1842336	2.6244732	45	2	1997–2000	0.53	M-v	4	Williams	38612	1999 XZ ₂₀₂
1999 XD ₂₀₃	14.4	0.15	20000226	347.04400	179.20013	316.20898	14.05807	0.1317671	2.6123456	46	2	1998–2000	0.52	M-v	3	Williams	39565	1999 XD ₂₀₃
1999 XJ ₂₀₃	13.5	0.15	20000226	354.97827	158.00754	325.37155	10.38182	0.1350442	3.1143699	28	1	112 days	0.54	M-v	4	Williams	38859	1999 XJ ₂₀₃
1999 XH ₂₀₄	15.3	0.15	20000226	311.04413	198.00595	339.52233	6.78223	0.0641025	2.2464249	30	1	61 days	0.51	M-v	5	Williams	38859	1999 XH ₂₀₄
1999 XM ₂₀₅	14.2	0.15	20000226	247.00991	283.32772	324.22313	12.24094	0.1356432	2.5243198	29	1	61 days	0.48	M-v	5	Williams	38859	1999 XM ₂₀₅
1999 XN ₂₀₅	13.5	0.15	20000226	304.70850	217.04525	335.36049	10.90918	0.1313167	2.6873733	29	1	112 days	0.57	M-v	4	Williams		1999 XN ₂₀₅
1999 XQ ₂₀₅	14.3	0.15	20000226	324.44902	176.42639	0.23579	8.19306	0.1647210	2.3506312	60	3	1993–2000	0.69	M-v	3	Williams	39565	1999 XQ ₂₀₅
1999 XG ₂₀₆	13.6	0.15	20000226	35.63005	20.44866	62.40706	12.58245	0.1073770	3.0974381	28	1	106 days	0.50	M-v	4	Williams		1999 XG ₂₀₆
1999 XM ₂₀₆	13.3	0.15	20000226	10.49431	37.23304	77.74741	19.39045	0.1059620	3.1521770	30	1	131 days	0.47	M-v	3	Williams	38859	1999 XM ₂₀₆
1999 XS ₂₀₆	12.1	0.15	20000226	242.25473	284.49201	319.96500	20.34601	0.0248880	3.2397699	44	1	137 days	0.42	M-v	4	Williams	38859	1999 XS ₂₀₆
1999 XS ₂₀₈	15.2	0.15	20000226	34.54488	105.84208	302.11944	11.22996	0.2949237	2.5325150	32	1	118 days	0.50	M-v	4	Williams	38859	1999 XS ₂₀₈
1999 XJ ₂₀₉	13.1	0.15	20000226	92.30187	336.20272	18.12966	10.73766	0.1004215	2.9806872	40	2	1998–2000	0.61	M-v	3	Williams	38860	1999 XJ ₂₀₉
1999 XO ₂₀₉	13.4	0.15	20000226	347.53937	180.42760	311.49515	12.93622	0.2733137	2.8998136	59	2	1998–2000	0.60	M-v	3	Williams	39565	1999 XO ₂₀₉
1999 XB ₂₁₁	10.4	0.15	20000226	127.28196	8.45232	317.20286	19.70216	0.0889513	5.2053434	29	1	105 days	0.47	M-v	4	Williams	39566	1999 XB ₂₁₁
1999 XC ₂₁₁	13.6	0.15	20000226	36.13536	38.10795	29.46774	10.16341	0.1331779	2.6621869	28	1	105 days	0.47	M-v	4	Williams		1999 XC ₂₁₁
1999 XW ₂₁₁	10.8	0.15	20000226	66.67134	65.61099	327.03135	18.00591	0.0576191	5.1302838	28	3	1974–2000	0.53	M-v	2	Williams	38860	1999 XW ₂₁₁
1999 XG ₂₁₂	14.4	0.15	20000226	65.08244	251.98858	104.48384	6.81298	0.1939704	2.2637935	70	2	1998–2000	0.51	M-v	4	Williams	37980	1999 XG ₂₁₂
1999 XH ₂₁₂	15.1	0.15	20000226	80.21627	217.74067	119.95083	3.64600	0.2330392	2.1628005	61	1	113 days	0.51	M-v	4	Williams	38860	1999 XH ₂₁₂
1999 XK ₂₁₂	14.3	0.15	20000226	49.67479	254.56442	121.73161	5.16832	0.1050301	2.7529304	37	2	1992–2000	0.45	M-v	4	Williams	38860	1999 XK ₂₁₂
1999 XM ₂₁₂	13.1	0.15	20000226	328.17583	28.22467	78.20535	10.72461	0.0682487	3.0461176	49	1	91 days	0.58	M-v	4	Williams	38860	1999 XM ₂₁₂
1999 XN ₂₁₂	13.0	0.15	20000226	122.60373	219.89865	75.38966	14.52000	0.1734403	2.6129399	71	2	1998–2000	0.57	M-v	3	Williams	38860	1999 XN ₂₁₂
1999 XY ₂₁₂	13.5	0.15	20000226	9.95516	338.71143	95.47754	18.94786	0.1914640	3.0675194	49	1	119 days	0.50	M-v	3	Williams	39566	1999 XY ₂₁₂
1999 XA ₂₁₃	14.7	0.15	20000226	8.40477	291.90209	155.95636	8.47813	0.1662849	2.7562530	42	2	1996–2000	0.61	M-v	3	Williams	37981	1999 XA ₂₁₃
1999 XB ₂₁₃	14.5	0.15	20000226	27.64079	293.61260	129.71843	8.10216	0.1846552	2.5971693	64	1	147 days	0.56	M-v	3	Williams	39566	1999 XB ₂₁₃
1999 XL ₂₁₃	14.9	0.15	20000226	102.48397	214.78558	123.91551	11.25975	0.1650928	2.3060900	48	3	1997–2000	0.64	M-v	2	Williams	38614	1999 XL ₂₁₃
1999 XN ₂₁₃	14.9	0.15	20000226	299.84274	353.09869	169.98297	5.92775	0.0348853	2.3773875	31	1	91 days	0.64	M-v	5	Williams	38167	1999 XN ₂₁₃
1999 XW ₂₁₃	15.6	0.15	20000226	66.99676	239.99677	142.36140	3.97906	0.1482185	2.2724751	33	2	1995–2000	0.50	M-v	4	Williams	37981	1999 XW ₂₁₃
1999 XK ₂₁₅	14.4	0.15	20000226	219.77686	44.91866	220.98088	6.69703	0.1200699	2.2628378	56	3	1997–2000	0.53	M-v	2	Williams	37982	1999 XK ₂₁₅
1999 XL ₂₁₅	14.0	0.15	20000226	174.29866	127.60447	171.83058	6.14823	0.2088041	2.2592717	69	2	1998–2000	0.67	M-v	3	Williams	38860	1999 XL ₂₁₅
1999 XP ₂₁₅	14.8	0.15	20000226	48.33822	166.03561	250.59649	11.97968	0.1935151	2.6116179	27	1	60 days	0.60	M-v	5	Williams	38168	1999 XP ₂₁₅
1999 XS ₂₁₅	13.2	0.15	20000226	137.00693	164.57360	178.70363	9.16307	0.0533649	3.0396223	54	3	1991–2000	0.64	M-v	3	Williams	38860	1999 XS ₂₁₅
1999 XZ ₂₁₅	14.0	0.15	20000226	135.71804	44.55015	283.33912	10.66051	0.2037782	2.6511184	51	3	1989–2000	0.67	M-v	3	Williams	38614	1999 XZ ₂₁₅
1999 XQ ₂₁₆	14.5	0.15	20000226	317.76961	75.43830	103.31478	2.97517	0.1639151	2.9777653	34	1	60 days	0.57	M-v	5	Williams	38860	1999 XQ ₂₁₆
1999 XU ₂₁₆	15.1	0.15	20000226	354.81772	30.13010	101.38170	5.26221	0.0697335	2.3212272	44	3	1995–2000	0.47	M-v	3	Williams	38860	1999 XU ₂₁₆
1999 XN ₂₁₇	15.5	0.15	20000226	62.26757	309.07383	100.28887	5.46229	0.1380194	2.3289608	45	1	65 days	0.41	M-v	4	Williams	38860	1999 XN ₂₁₇
1999 XO ₂₂₀	13.7	0.15	20000226	2.14824	342.99562	85.20054	13.97295	0.1446654	2.6042565	49	1	119 days	0.61	M-v	4	Williams	38860	1999 XO ₂₂₀
1999 XP ₂₂₀	13.4	0.15	20000226	22.70101	281.45014	116.78092	9.02558	0.2680898	2.7968247	62	1	196 days	0.46	M-v	3	Williams	39566	1999 XP ₂₂₀
1999 XQ ₂₂₀	14.8	0.15	20000226	20.37187	306.52531	109.54388	10.21253	0.2457961	2.4249202	52	1	119 days	0.52	M-v	3	Williams	38168	1999 XQ ₂₂₀
1999 XZ ₂₂₀	14.4	0.15	20000226	327.97358	325.91751	225.76501	9.64537	0.1673604	2.3113999	50	2	1998–2000	0.67	M-v	3	Williams	39566	1999 XZ ₂₂₀
1999 XC ₂₂₁	12.8	0.15	20000226	135.07947	124.22902	236.54375	11.97169	0.1826588	2.6961693	58	4	1976–2000	0.73	M-v	2	Williams	39566	1999 XC ₂₂₁
1999 XD ₂₂₁	13.1	0.15	20000226	292.04809	334.68761	253.50877	10.80122	0.0929676	2.6460357	54	2	1998–2000	0.68	M-v	3	Williams	39566	1999 XD ₂₂₁
1999 XE ₂₂₁	12.2	0.15	20000226	303.31739	358.08012	211.77852	9.52506	0.0293014	3.0236776	52	3	1992–2000	0.67	M-v	3	Williams	39335	1999 XE ₂₂₁
1999 XG ₂₂₁	13.2	0.15	20000226	23.07702	287.28274	195.68364	13.24932	0.1572359	3.2226970	57	1	150 days	0.58	M-v	3	Williams	39566	1999 XG ₂₂₁
1999 XJ ₂₂₁	12.3	0.15	20000226	263.95716	17.92767	240.76181	9.17685	0.0428148	3.0181564	56	2	1998–2000	0.54	M-v	3	Williams	39335	1999 XJ ₂₂₁
1999 XR ₂₂₁	15.4	0.15	20000226	63.06877	337.49169	49.30010	6.54063	0.1177863	2.2099558	47	1	110 days	0.51	M-v	4	Williams	39566	1999 XR ₂₂₁
1999 XU ₂₂₁	16.3	0.15	20000226	28.47028	5.71075	58.37188	8.28821	0.2575143	2.3476918	49	1	100 days	0.53	M-v	4	Williams	38861	1999 XU ₂₂₁
1999 XC ₂₂₃	14.1	0.15	20000226	202.96689	241.25610	55.60968	7.48339	0.1165731	2.2594865	43	4	1978–2000	0.52	M-v	3	Williams	39566	1999 XC ₂₂₃
1999 XK ₂₂₄	14.0	0.15	20000226	316.00729	161.31338	15.52026	0.38390	0.1381778	3.2078364	32	1	60 days	0.47	M-v	5	Williams	38861	1999 XK ₂₂₄
1999 XU ₂₂₅	14.9	0.15	20000226	319.54739	244.29825	300.47796	3.00111	0.1779944	2.3142494	47	1	112 days	0.44	M-v	4	Williams	38861	1999 XU ₂₂₅

1999 XV ₂₂₅	15.0	0.15	20000226	81.54018	288.95366	93.73173	3.99684	0.1864980	2.3116576	40	1	112 days	0.47	M-v	4	Williams	38861	1999 XV ₂₂₅
1999 XY ₂₂₅	13.6	0.15	20000226	53.63782	129.61570	296.45482	8.23503	0.0410401	2.9684252	55	3	1992–2000	0.55	M-v	2	Williams	38861	1999 XY ₂₂₅
1999 XS ₂₂₆	12.3	0.15	19991228	12.79318	35.10466	64.23179	2.28945	0.0767425	5.1643045	34	1	47 days	0.60			Williams		1999 XS ₂₂₆
1999 XX ₂₂₆	15.2	0.15	20000226	339.31522	55.91848	94.79992	5.68746	0.0857055	2.2639105	40	1	86 days	0.51	M-v	4	Williams	38861	1999 XX ₂₂₆
1999 XF ₂₂₇	15.9	0.15	20000226	243.23329	324.44909	286.75163	6.03896	0.1006994	2.2272718	33	2	1998–2000	0.72	M-v	4	Williams	38615	1999 XF ₂₂₇
1999 XL ₂₂₇	15.2	0.15	20000226	172.43018	203.49009	104.42457	6.12067	0.1932959	2.2044757	42	3	1997–2000	0.54	M-v	3	Williams	38861	1999 XL ₂₂₇
1999 XM ₂₂₇	15.4	0.15	20000226	47.58602	310.44253	111.28623	4.11831	0.1474784	2.5796498	38	1	61 days	0.50	M-v	4	Williams	38861	1999 XM ₂₂₇
1999 XS ₂₂₇	16.9	0.15	19991228	35.77859	316.80794	104.00252	3.60145	0.1479307	2.3416859	19	1	46 days	0.31			Williams		1999 XS ₂₂₇
1999 XU ₂₂₇	15.1	0.15	20000226	332.79209	45.12511	111.46191	2.99235	0.0607951	2.4333949	51	3	1997–2000	0.66	M-v	4	Williams	38861	1999 XU ₂₂₇
1999 XZ ₂₂₇	13.9	0.15	20000226	68.50043	254.22902	70.55405	14.49948	0.2236414	2.6333410	45	3	1978–2000	0.51	M-v	2	Williams	37985	1999 XZ ₂₂₇
1999 XA ₂₂₈	14.3	0.15	20000226	347.29175	350.62830	91.93154	7.24783	0.1142570	2.3960639	53	2	1993–2000	0.64	M-v	4	Williams	38861	1999 XA ₂₂₈
1999 XB ₂₂₈	12.7	0.15	20000226	75.41030	205.16692	111.24237	6.45689	0.1564967	3.1495588	49	2	1998–2000	0.52	M-v	3	Williams	37986	1999 XB ₂₂₈
1999 XS ₂₂₈	15.6	0.15	20000226	80.71495	85.78441	299.09408	4.38185	0.1661239	2.1856431	37	1	76 days	0.54	M-v	5	Williams	38861	1999 XS ₂₂₈
1999 XH ₂₂₉	13.3	0.15	20000226	330.26695	313.74299	180.31077	16.17667	0.1592952	2.9822681	56	3	1993–2000	0.76	M-v	3	Williams	39566	1999 XH ₂₂₉
1999 XD ₂₃₀	14.7	0.15	19991118	16.78547	109.19938	261.81232	13.24443	0.0963706	2.6179894	20	1	35 days	0.65			Williams		1999 XD ₂₃₀
1999 XG ₂₃₀	14.0	0.15	19991118	334.30231	144.77954	281.86294	8.95367	0.1190300	3.0745382	14	1	35 days	0.76			Williams		1999 XG ₂₃₀
1999 XJ ₂₃₀	15.5	0.15	20000226	79.78464	350.53000	358.47636	4.93686	0.1029861	2.2106623	53	2	1998–1999	0.67	M-v	4	Williams	38616	1999 XJ ₂₃₀
1999 XR ₂₃₀	15.3	0.15	20000226	31.88367	26.47700	17.20898	5.33509	0.1781042	2.3925985	31	1	66 days	0.42	M-v	4	Williams		1999 XR ₂₃₀
1999 XS ₂₃₀	13.7	0.15	19991118	123.72321	240.61972	32.68582	12.41178	0.1548818	2.8670442	12	1	35 days	0.57			Williams		1999 XS ₂₃₀
1999 XA ₂₃₁	12.5	0.15	20000226	109.37292	338.61794	39.81832	14.29102	0.1796240	2.6658467	32	1	117 days	0.58	M-v	4	Williams		1999 XA ₂₃₁
1999 XG ₂₃₁	12.4	0.15	20000226	59.99637	2.83759	73.43850	19.63326	0.1447306	3.0946153	47	1	111 days	0.38	M-v	4	Williams	39566	1999 XG ₂₃₁
1999 XQ ₂₃₁	14.0	0.15	20000226	19.25977	37.85425	71.04703	14.08655	0.2294610	2.9928090	54	1	110 days	0.47	M-v	3	Williams	39566	1999 XQ ₂₃₁
1999 XT ₂₃₁	15.0	0.15	20000226	354.07500	100.06761	57.18152	7.15646	0.1465795	2.3303216	28	1	116 days	0.43	M-v	4	Williams		1999 XT ₂₃₁
1999 XB ₂₃₂	13.1	0.15	20000226	96.15287	155.46211	239.07626	23.55740	0.1696182	2.3395465	15	1	120 days	0.51	M-v	5	Williams		1999 XB ₂₃₂
1999 YG	14.8	0.15	20000226	57.90240	280.67535	109.77172	24.42790	0.1430061	1.9597085	63	1	115 days	0.44	M-v	3	Williams	39566	1999 YG
1999 YH	15.0	0.15	20000226	288.29292	67.53503	116.16001	23.91443	0.0808907	1.9194541	54	2	1998–2000	0.61	M-v	3	Williams	38861	1999 YH
1999 YS	14.5	0.15	20000226	0.27645	249.12956	261.40558	27.42280	0.4017992	2.5791652	54	1	183 days	0.53	M-v	3	Marsden	38862	1999 YS
1999 YX	15.9	0.15	20000226	22.46421	276.88912	143.56397	5.82680	0.3191556	2.5656735	54	1	89 days	0.60	M-v	3	Williams	38169	1999 YX
1999 YZ	14.6	0.15	20000226	59.38037	224.20630	149.82319	6.87467	0.1244403	2.3273849	82	3	1997–2000	0.62	M-v	2	Williams	37986	1999 YZ
1999 YO ₁	14.3	0.15	20000226	38.22916	95.39074	329.04692	3.88797	0.1038702	2.2281075	81	3	1974–2000	0.61	M-v	3	Williams	39566	1999 YO ₁
1999 YP ₁	15.3	0.15	20000226	12.05432	282.30092	152.07391	13.22944	0.2417675	2.6431534	37	2	1992–2000	0.58	M-v	3	Williams	38862	1999 YP ₁
1999 YQ ₂	16.7	0.15	19991228	339.12963	193.98483	304.36367	1.74750	0.2080785	2.3565544	28	1	57 days	0.51			Williams		1999 YQ ₂
1999 YT ₂	14.7	0.15	19991228	248.42061	268.42391	330.86131	1.71811	0.1909356	2.3708316	41	1	57 days	0.45			Williams		1999 YT ₂
1999 YD ₃	15.2	0.15	20000226	53.95698	92.65046	333.24729	18.12570	0.0949033	1.9308457	32	1	107 days	0.51	M-v	4	Williams	39566	1999 YD ₃
1999 YM ₃	13.6	0.15	20000226	338.82419	354.02804	182.88885	21.86324	0.0472073	2.5570517	32	1	108 days	0.48	M-v	4	Williams	39566	1999 YM ₃
1999 YY ₃	13.4	0.15	20000226	33.77328	76.36941	336.24432	24.16755	0.3183334	2.7756136	46	1	181 days	0.42	M-v	3	Williams	39566	1999 YY ₃
1999 YD ₄	14.6	0.15	20000226	49.23263	41.63894	3.27266	23.32364	0.2980885	2.3635461	32	1	98 days	0.61	M-v	4	Williams	39566	1999 YD ₄
1999 YJ ₄	13.4	0.15	20000226	284.46444	44.06629	98.36462	10.84417	0.0723498	3.0606563	47	1	143 days	0.70	M-v	4	Williams	39566	1999 YJ ₄
1999 YQ ₄	14.8	0.15	20000226	14.92910	162.30795	305.63170	9.86097	0.1871186	2.6764089	61	1	102 days	0.58	M-v	4	Williams	39566	1999 YQ ₄
1999 YS ₄	15.4	0.15	20000226	269.78569	115.68736	97.96373	5.89535	0.0689545	2.3662588	33	2	1995–2000	0.62	M-v	6	Williams	38616	1999 YS ₄
1999 YA ₅	14.0	0.15	20000226	74.71808	317.87542	62.73699	3.46353	0.2249138	2.3558833	99	3	1988–2000	0.67	M-v	4	Williams	38862	1999 YA ₅
1999 YE ₅	14.1	0.15	20000226	13.35939	340.13291	77.45608	9.37819	0.1762827	2.6380407	74	1	150 days	0.52	M-v	3	Williams	38862	1999 YE ₅
1999 YH ₅	15.5	0.15	20000226	330.68738	79.57534	116.71980	24.83477	0.3268528	2.2536901	58	1	105 days	0.60	M-v	4	Williams	39566	1999 YH ₅
1999 YT ₅	13.7	0.15	20000226	100.67421	344.03325	13.10683	25.74899	0.2224343	2.3372681	39	2	1995–2000	0.52	M-v	4	Williams	39336	1999 YT ₅
1999 YA ₆	14.7	0.15	20000226	18.26822	101.39697	323.36455	25.99131	0.2848622	2.6524339	36	1	120 days	0.46	M-v	3	Williams	38862	1999 YA ₆
1999 YB ₇	13.1	0.15	20000226	23.73467	28.74858	55.10518	18.03200	0.1023012	3.1658896	34	1	191 days	0.46	M-v	3	Williams	39566	1999 YB ₇
1999 YH ₇	13.9	0.15	20000226	25.42025	56.65827	86.01759	9.13357	0.1154335	2.3475728	59	3	1995–2000	0.51	M-v	2	Williams	39566	1999 YH ₇
1999 YX ₇	17.2	0.15	20000226	70.89760	142.26554	230.48463	0.59901	0.1825182	2.3981766	14	2	1995–2000	0.22	M-v	4	Williams	38617	1999 YX ₇
1999 YD ₈	14.7	0.15	20000226	204.05871	179.86524	104.85128	5.32071	0.1783928	2.2025003	46	3	1997–2000	0.52	M-v	3	Williams	38617	1999 YD ₈
1999 YO ₈	15.2	0.15	20000117	240.40066	138.11130	103.19844	6.66253	0.0618538	2.2554002	37	1	46 days	0.55			Williams		1999 YO ₈
1999 YT ₈	13.6	0.15	20000226	93.45929	44.76500	316.20999	8.56966	0.1069588	3.0615118	76	2	1998–2000	0.66	M-v	3	Williams	38617	1999 YT ₈
1999 YA ₉	13.2	0.15	20000226	136.48726	236.12982	106.50305	10.63247	0.0648796	2.9727360	88	1	175 days	0.55	M-v	4	Williams	38863	1999 YA ₉
1999 YC ₉	14.0	0.15	20000226	191.52569	297.54160	356.44480	1.59434	0.0760587	2.9607997	60	4	1992–2000	0.61	M-v	1	Williams	38863	1999 YC ₉

1999 YE ₉	12.8	0.15	20000226	174.33702	27.37068	284.75034	12.28851	0.2023327	2.5809797	74	3	1988–2000	0.64	M-v	3	Williams	39566	1999 YE ₉
1999 YF ₉	13.3	0.15	20000226	182.41122	3.86602	305.26173	9.27898	0.1122707	2.5960872	74	3	1992–2000	0.64	M-v	3	Williams	38618	1999 YF ₉
1999 YG ₉	14.4	0.15	20000226	255.85080	301.65595	310.58382	3.61624	0.1528694	2.4578767	50	1	64 days	0.63	M-v	5	Williams	39566	1999 YG ₉
1999 YJ ₉	15.1	0.15	20000226	1.84482	310.75887	164.80697	23.16148	0.2656382	2.3109575	47	1	125 days	0.41	M-v	3	Williams	38863	1999 YJ ₉
1999 YL ₉	14.7	0.15	20000226	29.44240	149.85107	305.55849	7.10959	0.1873169	2.7848644	70	1	110 days	0.46	M-v	4	Williams	39566	1999 YL ₉
1999 YM ₉	14.6	0.15	20000226	41.22721	85.16242	339.99493	5.21968	0.2640294	2.7963740	60	1	143 days	0.67	M-v	4	Williams	39567	1999 YM ₉
1999 YO ₉	14.5	0.15	20000226	91.48430	14.01125	12.71676	4.75228	0.1360225	2.2945014	41	2	1998–2000	0.52	M-v	3	Williams	38618	1999 YO ₉
1999 YP ₉	13.9	0.15	20000226	143.38340	336.57389	2.48161	8.30432	0.1412446	2.4604083	45	3	1987–2000	0.61	M-v	3	Williams	38618	1999 YP ₉
1999 YR ₉	14.3	0.15	20000226	36.15232	1.25062	85.76310	5.85351	0.1311437	2.7512154	44	2	1998–2000	0.70	M-v	3	Williams	38863	1999 YR ₉
1999 YS ₉	14.1	0.15	20000226	359.15507	100.84070	36.68037	5.94472	0.0745158	2.2464799	41	1	143 days	0.49	M-v	3	Williams		1999 YS ₉
1999 YT ₉	13.3	0.15	20000226	87.67675	326.27583	64.26656	10.05832	0.1327975	2.7657536	41	1	143 days	0.66	M-v	4	Williams	39567	1999 YT ₉
1999 YV ₁₀	13.2	0.15	20000226	122.63490	198.24056	106.02665	5.80139	0.1315989	3.2176673	34	2	1998–2000	0.66	M-v	4	Williams	38618	1999 YV ₁₀
1999 YA ₁₁	15.6	0.15	20000226	351.45759	8.02016	107.70226	5.23366	0.2514895	2.5685270	37	1	62 days	0.52	M-v	4	Williams	38171	1999 YA ₁₁
1999 YS ₁₂	13.3	0.15	20000117	275.96284	114.77512	99.61126	2.94887	0.1222463	3.0790142	35	1	46 days	0.53			Williams		1999 YS ₁₂
1999 YD ₁₃	13.5	0.15	20000226	23.04592	315.27539	99.83016	7.68190	0.1618847	3.2073697	58	3	1993–2000	0.72	M-v	3	Williams	38619	1999 YD ₁₃
1999 YG ₁₃	13.9	0.15	20000226	66.84901	286.33843	80.99547	16.44470	0.1250479	2.6862172	66	1	91 days	0.55	M-v	4	Williams	38863	1999 YG ₁₃
1999 YS ₁₃	14.5	0.15	20000117	85.29871	231.41063	139.93018	3.12819	0.2014255	2.3907695	35	1	34 days	0.53			Williams		1999 YS ₁₃
1999 YT ₁₃	15.6	0.15	20000117	309.89099	220.41431	315.54670	3.40954	0.0420594	2.2338470	61	1	43 days	0.66			Williams		1999 YT ₁₃
1999 YU ₁₃	13.8	0.15	20000226	346.80048	48.69255	100.93187	3.90102	0.1163366	3.0901224	63	2	1998–2000	0.55	M-v	3	Williams	39567	1999 YU ₁₃
1999 YQ ₁₄	15.9	0.15	20000226	323.65960	79.34026	97.82587	2.91315	0.1493694	2.3521679	38	2	1995–2000	0.43	M-v	4	Williams	38863	1999 YQ ₁₄
1999 YS ₁₄	14.2	0.15	20000226	122.20639	115.00665	234.84302	4.19915	0.2589920	2.2629943	54	2	1998–2000	0.61	M-v	4	Williams	38863	1999 YS ₁₄
1999 YY ₁₄	15.0	0.15	20000226	350.71001	45.53893	56.26551	24.66849	0.2770301	2.7374091	48	1	95 days	0.67	M-v	4	Williams		1999 YY ₁₄
1999 YS ₁₅	13.9	0.15	20000226	125.92117	188.28080	123.49691	3.13608	0.0574647	2.8071169	46	4	1979–2000	0.66	M-v	1	Williams	39336	1999 YS ₁₅
1999 YJ ₁₆	14.3	0.15	20000226	267.26233	312.42712	308.98760	5.06470	0.1394430	2.2068754	106	4	1991–2000	0.55	M-v	2	Williams	39567	1999 YJ ₁₆
1999 YK ₁₆	13.1	0.15	20000226	319.35645	52.30005	145.56180	11.25333	0.0360387	2.9781627	69	1	120 days	0.49	M-v	4	Williams	39567	1999 YK ₁₆
1999 YL ₁₆	15.5	0.15	20000226	5.75962	6.07301	141.93852	3.01841	0.1224478	2.6250754	38	1	71 days	0.51	M-v	4	Williams	39567	1999 YL ₁₆
1999 YA ₁₇	15.6	0.15	20000117	80.24834	98.10116	294.01441	9.73585	0.1049740	2.3126583	32	1	35 days	0.70			Williams		1999 YA ₁₇
1999 YR ₁₇	12.1	0.15	20000226	69.20323	27.95650	34.63681	17.80409	0.2018298	3.1260597	13	1	106 days	0.37	M-v	5	Williams		1999 YR ₁₇
1999 YG ₁₈	13.8	0.15	20000226	33.74802	229.47012	175.75664	24.47800	0.1691406	2.5467325	54	2	1998–2000	0.69	M-v	3	Williams	39567	1999 YG ₁₈
2000 AA	15.4	0.15	20000226	14.30260	350.34445	114.66908	5.70269	0.0886828	2.2917273	54	1	101 days	0.68	M-v	4	Williams	39567	2000 AA
2000 AB	12.4	0.15	20000226	240.34328	119.63143	135.13954	5.74666	0.1106759	3.1834017	85	4	1980–2000	0.61	M-v	2	Williams	39567	2000 AB
2000 AC	14.5	0.15	20000226	58.60678	272.99346	122.69572	6.70970	0.3132174	2.6270837	57	1	116 days	0.42	M-v	4	Williams	38864	2000 AC
2000 AF	15.3	0.15	20000226	37.71300	244.56479	168.91254	5.28667	0.1437859	2.2682561	34	1	89 days	0.68	M-v	4	Williams	38864	2000 AF
2000 AG	14.1	0.15	20000226	310.57516	28.23300	118.11410	6.84338	0.0532193	2.3259392	61	2	1998–2000	0.59	M-v	3	Williams	39567	2000 AG
2000 AJ	14.5	0.15	20000226	328.06673	58.03920	109.47109	8.76507	0.1324650	2.3100459	59	1	164 days	0.63	M-v	4	Williams	39567	2000 AJ
2000 AK	14.5	0.15	20000226	26.44106	336.35034	121.53263	4.82870	0.1354151	2.2676189	64	1	164 days	0.47	M-v	3	Williams	39567	2000 AK
2000 AM	14.0	0.15	20000226	15.79122	180.51163	288.18586	2.91081	0.1669952	2.4052291	81	3	1980–2000	0.65	M-v	2	Williams	39567	2000 AM
2000 AN	13.4	0.15	20000226	250.33243	156.17309	93.84368	6.91598	0.1496423	2.3216669	59	1	173 days	0.48	M-v	4	Williams	38864	2000 AN
2000 AD ₁	15.0	0.15	20000226	268.34634	301.35837	299.05763	5.63538	0.0952335	2.3938620	61	2	1996–2000	0.51	M-v	4	Williams	39567	2000 AD ₁
2000 AN ₁	16.2	0.15	20000226	6.44403	34.79065	94.01184	23.97629	0.1215085	1.8960386	34	1	106 days	0.49	M-v	4	Williams		2000 AN ₁
2000 AO ₁	14.1	0.15	20000226	14.31125	37.81274	93.09197	27.99232	0.1324867	2.6091905	28	1	125 days	0.47	M-v	3	Williams	38864	2000 AO ₁
2000 AP ₁	16.4	0.15	20000226	0.68456	59.26572	90.04972	20.67344	0.2857806	2.2067506	26	1	83 days	0.42	M-v	4	Williams		2000 AP ₁
2000 AQ ₁	13.6	0.15	20000226	13.70780	115.54415	301.55771	10.56929	0.1929226	2.6674961	50	2	1983–2000	0.49	M-v	3	Williams	38864	2000 AQ ₁
2000 AR ₁	14.4	0.15	20000226	353.45411	209.90351	289.08209	6.45627	0.0565914	2.3622091	68	2	1998–2000	0.67	M-v	3	Williams	38620	2000 AR ₁
2000 AS ₁	14.1	0.15	20000226	163.87590	205.41030	113.57593	4.85268	0.1743924	2.2067289	47	1	111 days	0.61	M-v	4	Williams	39567	2000 AS ₁
2000 AU ₁	14.6	0.15	20000226	30.22135	328.15626	122.90770	6.55822	0.1643698	2.9073823	68	2	1998–2000	0.61	M-v	3	Williams	39567	2000 AU ₁
2000 AX ₁	15.2	0.15	20000226	63.07590	292.21206	125.73806	5.85865	0.1200016	2.3010255	59	2	1998–2000	0.52	M-v	3	Williams	39567	2000 AX ₁
2000 AZ ₁	14.2	0.15	20000226	274.18998	110.79837	126.58805	6.42158	0.1610303	2.2872692	77	3	1980–2000	0.46	M-v	3	Williams	39567	2000 AZ ₁
2000 AB ₂	14.1	0.15	20000226	87.71842	258.44226	117.11700	7.30809	0.1900537	2.4722227	78	2	1998–2000	0.61	M-v	3	Williams	39567	2000 AB ₂
2000 AC ₂	15.9	0.15	20000117	10.60850	336.17562	126.81752	2.75785	0.0696806	2.2217732	40	1	31 days	0.42			Williams		2000 AC ₂
2000 AD ₂	16.0	0.15	19991228	40.94270	129.32231	280.00569	6.16183	0.2038646	2.4857534	26	1	24 days	0.56			Williams		2000 AD ₂
2000 AE ₂	14.1	0.15	20000226	310.57092	166.83756	28.29710	6.11691	0.1035083	2.5400681	60	4	1992–2000	0.76	M-v	3	Williams	39567	2000 AE ₂
2000 AF ₂	14.9	0.15	20000226	90.99603	347.07794	41.66885	7.64019	0.1443419	2.2064283	22	2	1995–2000	0.62	M-v	5	Williams	38621	2000 AF ₂

2000 AK ₂	14.3	0.15	20000226	45.59180	79.22965	333.80192	9.30669	0.3229269	2.7259292	45	2	1994–2000	0.75	M-v	4	Williams	39567	2000 AK ₂
2000 AN ₂	14.0	0.15	20000226	56.84335	96.10026	333.77162	13.53776	0.1027586	2.6453452	78	2	1998–2000	0.62	M-v	3	Williams	39567	2000 AN ₂
2000 AO ₂	14.9	0.15	20000226	62.78622	0.19547	57.83993	3.91830	0.1782451	2.2728348	58	2	1998–2000	0.66	M-v	4	Williams	39567	2000 AO ₂
2000 AQ ₂	12.3	0.15	20000226	195.69302	262.05917	40.61828	11.00877	0.1244660	3.1899656	42	2	1998–2000	0.68	M-v	4	Williams	39567	2000 AQ ₂
2000 AT ₂	15.4	0.15	19991228	225.48131	296.22184	317.51895	4.81363	0.0952747	2.2141633	18	1	12 days	0.97			Williams		2000 AT ₂
2000 AU ₂	14.8	0.15	20000226	53.44095	331.47055	83.91054	3.41696	0.2074862	2.3510865	60	1	169 days	0.45	M-v	4	Williams	38864	2000 AU ₂
2000 AW ₂	11.7	0.15	20000226	145.95826	31.06774	304.95409	6.16856	0.0498485	3.1994403	93	4	1986–2000	0.53	M-v	3	Williams	39567	2000 AW ₂
2000 AX ₂	13.5	0.15	20000226	31.03806	338.30860	107.55878	2.73391	0.1508549	3.2338813	69	3	1981–2000	0.55	M-v	2	Williams	38622	2000 AX ₂
2000 AY ₂	14.7	0.15	20000226	47.56845	322.49373	105.23580	3.07615	0.1575009	2.4626512	63	3	1977–2000	0.70	M-v	3	Williams	38864	2000 AY ₂
2000 AB ₃	14.3	0.15	20000226	307.67901	92.36385	104.15468	6.89906	0.1270569	2.2871243	67	3	1991–2000	0.67	M-v	3	Williams	38623	2000 AB ₃
2000 AE ₃	14.6	0.15	20000226	27.36461	89.12400	321.44260	11.84663	0.1855340	2.6532418	29	1	84 days	0.52	M-v	4	Williams	38864	2000 AE ₃
2000 AA ₄	14.2	0.15	20000226	317.07297	73.95277	104.33724	23.20264	0.1334918	2.5703994	57	3	1980–2000	0.50	M-v	2	Williams	38864	2000 AA ₄
2000 AG ₄	13.6	0.15	20000226	5.97599	60.79498	98.95715	24.66307	0.2312145	2.2959320	62	1	104 days	0.46	M-v	4	Williams		2000 AG ₄
2000 AL ₄	14.2	0.15	20000117	303.95044	61.30010	126.38139	11.41446	0.0503817	3.0895881	18	1	39 days	0.36			Williams		2000 AL ₄
2000 AR ₄	13.8	0.15	20000226	108.75612	272.35820	97.91540	8.92274	0.0901822	2.7705916	53	3	1980–2000	0.59	M-v	3	Williams	38623	2000 AR ₄
2000 AV ₄	13.2	0.15	20000226	262.44922	20.27865	216.12594	0.82196	0.1125158	3.1048419	94	4	1995–2000	0.63	M-v	1	Williams	38623	2000 AV ₄
2000 AX ₄	15.7	0.15	20000226	41.70263	127.47780	310.29007	0.28002	0.1593194	2.2515114	76	1	98 days	0.46	M-v	4	Williams	39567	2000 AX ₄
2000 AY ₄	13.9	0.15	20000226	292.87821	95.81699	107.94191	2.78654	0.0621254	2.4460339	75	3	1995–2000	0.78	M-v	3	Williams	38864	2000 AY ₄
2000 AA ₅	15.1	0.15	20000226	41.15450	114.93554	318.73144	5.25048	0.1762153	2.6703763	63	2	1998–2000	0.53	M-v	3	Williams	38865	2000 AA ₅
2000 AD ₅	13.3	0.15	20000226	169.28010	7.72869	303.25811	12.34912	0.1728054	2.5791574	85	2	1998–2000	0.62	M-v	3	Williams	38624	2000 AD ₅
2000 AE ₅	15.1	0.15	20000226	76.06541	51.03513	1.47001	3.61805	0.1073555	2.1845050	67	1	131 days	0.57	M-v	4	Williams	39568	2000 AE ₅
2000 AF ₅	13.6	0.15	20000226	16.06476	318.79776	119.27180	5.32616	0.1456799	2.7382450	83	4	1949–2000	0.62	M-v	1	Williams	39568	2000 AF ₅
2000 AJ ₅	15.6	0.15	20000117	339.20973	39.13967	105.01071	1.97847	0.1086346	2.1875440	42	1	43 days	0.60			Williams		2000 AJ ₅
2000 AY ₅	13.9	0.15	20000117	160.64738	200.99355	123.52538	2.84745	0.0688850	2.9366360	28	1	39 days	0.41			Williams		2000 AY ₅
2000 AK ₆	13.9	0.15	20000226	166.33348	331.55938	343.41405	1.25234	0.0760356	2.9266807	38	2	1998–2000	0.62	M-v	5	Williams	38624	2000 AK ₆
2000 AL ₆	16.2	0.15	19991228	318.92255	120.33825	44.68113	0.93099	0.1638276	2.4145341	18	1	9 days	0.53			Williams		2000 AL ₆
2000 AM ₆	13.6	0.15	20000226	41.93758	343.07925	98.91707	3.51277	0.0099991	2.8763575	75	2	1998–2000	0.62	M-v	3	Williams	38625	2000 AM ₆
2000 AN ₆	11.3	0.15	20000226	3.20612	4.82089	112.57302	13.91248	0.0313117	5.1830025	57	2	1998–2000	0.62	M-v	3	Williams	38625	2000 AN ₆
2000 AR ₉	15.1	0.15	20000226	315.03079	165.99547	12.25330	5.03796	0.0962394	2.2461252	52	3	1995–2000	0.53	M-v	3	Williams	38625	2000 AR ₉
2000 AE ₁₀	13.7	0.15	20000226	108.70194	269.29409	53.95451	15.74079	0.1144015	2.6589792	45	1	114 days	0.48	M-v	4	Williams	39568	2000 AE ₁₀
2000 AF ₁₀	13.3	0.15	20000226	196.70982	199.28563	47.67540	12.53891	0.1439321	2.6140561	51	2	1995–2000	0.60	M-v	4	Williams	39337	2000 AF ₁₀
2000 AJ ₁₀	14.6	0.15	19991228	92.82650	21.44166	286.45877	4.33087	0.2934330	2.1664811	11	1	10 days	0.61			Williams		2000 AJ ₁₀
2000 AO ₁₀	14.6	0.15	19991208	284.84845	239.41849	278.90841	12.07071	0.1331777	2.5395454	30	1	37 days	0.44		D	Williams		2000 AO ₁₀
2000 AA ₁₂	14.3	0.15	20000226	10.17894	93.62823	355.61322	2.98647	0.0979937	2.5512456	38	1	121 days	0.45	M-v	3	Williams	39568	2000 AA ₁₂
2000 AP ₁₄	15.4	0.15	20000226	88.95132	86.40003	270.38291	2.77466	0.1833827	2.2489394	46	2	1997–2000	0.47	M-v	4	Williams	38865	2000 AP ₁₄
2000 AG ₁₆	14.8	0.15	20000226	75.29603	86.99633	277.43241	3.30150	0.2353109	2.6167278	27	1	104 days	0.62	M-v	5	Williams	38865	2000 AG ₁₆
2000 AS ₁₆	15.2	0.15	20000226	353.97812	147.81798	334.41045	2.34752	0.1279866	2.4211448	38	3	1993–2000	0.58	M-v	3	Williams	38626	2000 AS ₁₆
2000 AO ₁₇	12.8	0.15	20000226	229.22602	150.07543	98.47115	12.91812	0.1483879	2.6586216	62	3	1993–2000	0.44	M-v	2	Williams	39568	2000 AO ₁₇
2000 AS ₁₇	13.5	0.15	20000226	62.98845	114.92918	279.53985	8.65546	0.1041172	2.9731686	43	2	1998–2000	0.49	M-v	3	Williams	38626	2000 AS ₁₇
2000 AN ₁₈	14.4	0.15	20000226	104.88876	276.18351	75.82690	7.91163	0.1429147	2.3093065	43	1	110 days	0.49	M-v	4	Williams	39568	2000 AN ₁₈
2000 AO ₂₂	13.2	0.15	20000226	256.08811	147.25418	78.10952	10.24583	0.1058953	2.7603711	45	1	114 days	0.45	M-v	4	Williams	38865	2000 AO ₂₂
2000 AC ₂₃	14.0	0.15	20000226	76.54591	304.60677	81.76070	8.27663	0.0812069	2.7398292	32	2	1997–2000	0.65	M-v	4	Williams	38627	2000 AC ₂₃
2000 AO ₂₃	12.9	0.15	20000226	257.31553	182.01306	38.67518	2.44394	0.0701339	3.1506031	44	3	1996–2000	0.65	M-v	4	Williams	38627	2000 AO ₂₃
2000 AF ₂₅	14.3	0.15	20000226	275.90602	182.16482	34.97629	1.60695	0.1425949	2.4203236	49	3	1994–2000	0.51	M-v	3	Williams	38628	2000 AF ₂₅
2000 AW ₂₆	13.6	0.15	20000226	93.59350	51.25720	305.02652	6.53550	0.2416540	2.7966956	43	2	1998–2000	0.55	M-v	4	Williams	38628	2000 AW ₂₆
2000 AU ₂₇	11.8	0.15	20000226	25.67427	73.03645	1.67864	3.69021	0.2053043	5.1724457	85	3	1997–2000	0.52	M-v	2	Williams	38866	2000 AU ₂₇
2000 AC ₂₈	14.6	0.15	20000226	125.32278	246.06505	97.91267	3.17909	0.0831451	2.8735260	26	2	1998–2000	0.68	M-v	5	Williams	39339	2000 AC ₂₈
2000 AB ₂₉	13.7	0.15	20000226	147.82317	4.09433	316.00248	6.35710	0.2115680	2.4272263	69	2	1998–2000	0.60	M-v	3	Williams	38628	2000 AB ₂₉
2000 AF ₃₀	13.8	0.15	20000226	78.82340	308.14964	84.94996	3.10432	0.0961335	2.9328671	37	1	66 days	0.58	M-v	5	Williams		2000 AF ₃₀
2000 AH ₃₀	14.2	0.15	19991228	359.83833	170.77234	300.15868	8.70105	0.1053433	3.1025747	18	1	10 days	0.85			Williams		2000 AH ₃₀
2000 AJ ₃₀	14.6	0.15	19991228	299.94970	244.91652	299.95785	8.66512	0.1340433	2.7723462	18	1	10 days	1.38			Williams		2000 AJ ₃₀
2000 AK ₃₀	14.8	0.15	20000226	95.11087	309.17590	58.85686	2.13881	0.1995008	2.3862454	28	2	1980–2000	0.43	M-v	4	Williams	38629	2000 AK ₃₀
2000 AE ₃₁	14.6	0.15	20000226	340.68668	140.86017	15.78920	2.69381	0.1525695	2.3828029	45	2	1993–2000	0.47	M-v	4	Williams	38630	2000 AE ₃₁

2000 APR. 18

M.P.C. 40429

2000 AK ₃₁	14.4	0.15	20000226	55.89043	332.37428	76.42263	2.56890	0.2138381	2.6729536	60	1	112 days	0.42	M-v	4	Williams	38867	2000 AK ₃₁
2000 AM ₃₁	15.7	0.15	20000226	48.31673	330.30042	90.95227	3.92486	0.2154838	2.3185547	50	1	159 days	0.61	M-v	4	Williams	38867	2000 AM ₃₁
2000 AU ₃₁	11.0	0.15	20000226	85.32100	341.47064	35.83666	7.21237	0.1464264	5.1099076	29	2	1996–2000	0.59	M-v	3	Williams	38630	2000 AU ₃₁
2000 AJ ₃₂	14.6	0.15	20000226	96.08829	288.64276	84.13958	7.17715	0.1719650	2.4051049	39	2	1998–2000	0.52	M-v	4	Williams	38630	2000 AJ ₃₂
2000 AN ₃₂	14.1	0.15	20000226	255.70630	181.60298	54.41335	2.67347	0.0573131	3.1011246	46	3	1992–2000	0.68	M-v	4	Williams	38631	2000 AN ₃₂
2000 AP ₃₂	16.3	0.15	20000117	30.13241	98.69104	335.73752	1.92377	0.1851668	2.3114691	26	1	39 days	0.43			Williams		2000 AP ₃₂
2000 AT ₃₂	15.4	0.15	20000117	147.74152	276.71896	50.01291	2.18615	0.0705982	2.2997313	28	1	39 days	0.58			Williams		2000 AT ₃₂
2000 AV ₃₂	15.3	0.15	20000117	56.33540	18.01437	27.66130	2.08191	0.1623197	2.8676759	37	1	40 days	0.54			Williams		2000 AV ₃₂
2000 AY ₃₂	13.6	0.15	20000226	35.68427	129.92281	313.00827	10.59542	0.1264229	3.0610633	54	2	1984–2000	0.47	M-v	4	Williams	38631	2000 AY ₃₂
2000 AZ ₃₂	14.3	0.15	20000226	30.19483	136.10484	318.00318	6.91008	0.1176985	2.3558967	76	3	1982–2000	0.54	M-v	2	Williams	39568	2000 AZ ₃₂
2000 AA ₃₃	15.3	0.15	20000226	81.36078	27.25081	3.18663	3.01882	0.1658358	2.2277083	31	1	73 days	0.57	M-v	5	Williams		2000 AA ₃₃
2000 AG ₃₃	13.9	0.15	20000226	358.49916	168.12190	322.36370	12.00699	0.1188155	2.6964271	59	2	1998–2000	0.55	M-v	3	Williams	39568	2000 AG ₃₃
2000 AJ ₃₃	15.4	0.15	20000117	350.73960	174.24211	314.49665	14.01359	0.0567947	2.3890341	21	1	39 days	0.44			Williams		2000 AJ ₃₃
2000 AS ₃₃	14.5	0.15	20000226	110.48920	41.32471	313.49452	8.80103	0.2377065	2.4081036	66	4	1976–2000	0.68	M-v	2	Williams	38632	2000 AS ₃₃
2000 AY ₃₃	14.1	0.15	20000117	303.26614	234.99684	313.45891	11.24706	0.1021833	3.1192782	29	1	39 days	0.45			Williams		2000 AY ₃₃
2000 AC ₃₄	13.5	0.15	20000226	268.12534	283.58853	313.91165	12.38769	0.1401546	2.5351257	54	1	111 days	0.51	M-v	4	Williams	39568	2000 AC ₃₄
2000 AG ₃₄	16.4	0.15	20000226	13.25210	121.19024	357.52693	3.12207	0.1324806	2.2396414	29	2	1997–2000	0.57	M-v	4	Williams	39568	2000 AG ₃₄
2000 AL ₃₄	15.2	0.15	20000226	342.15373	168.17485	347.13736	4.70348	0.0959462	2.3066206	37	1	90 days	0.56	M-v	4	Williams		2000 AL ₃₄
2000 AT ₃₄	13.5	0.15	20000226	259.11152	295.63552	314.55419	10.75738	0.1712275	2.4042035	61	1	145 days	0.44	M-v	4	Williams	39569	2000 AT ₃₄
2000 AY ₃₇	14.6	0.15	20000226	236.62921	298.78954	318.77946	2.22270	0.1194453	2.4244992	45	2	1998–2000	0.54	M-v	4	Williams	38867	2000 AY ₃₇
2000 AZ ₃₇	15.0	0.15	20000226	95.88641	14.27604	2.56514	1.83078	0.1018336	2.6601745	31	2	1998–2000	0.73	M-v	4	Williams	38633	2000 AZ ₃₇
2000 AM ₃₈	15.5	0.15	20000117	68.25790	76.81184	308.92964	3.42847	0.1881611	2.3375286	23	1	28 days	0.49			Williams		2000 AM ₃₈
2000 AN ₃₈	15.6	0.15	20000226	82.70341	30.38206	347.25101	1.52377	0.2387916	2.3407381	36	2	1977–2000	0.50	M-v	5	Williams	38633	2000 AN ₃₈
2000 AW ₃₈	15.6	0.15	20000226	276.24290	172.22270	51.14657	4.30313	0.0832831	2.1845999	33	2	1998–2000	0.66	M-v	4	Williams	38633	2000 AW ₃₈
2000 AG ₄₀	14.3	0.15	20000226	51.45854	113.36411	304.72465	16.27809	0.1810266	3.1191102	36	1	66 days	0.53	M-v	5	Williams	39569	2000 AG ₄₀
2000 AM ₄₀	16.0	0.15	20000226	84.38052	20.89347	17.66231	3.78982	0.0877102	2.1671274	25	3	1997–2000	0.52	M-v	3	Williams	38633	2000 AM ₄₀
2000 AV ₄₀	14.2	0.15	20000226	292.23583	256.28396	320.41730	10.45854	0.1366911	2.6135604	31	1	83 days	0.40	M-v	4	Williams		2000 AV ₄₀
2000 AZ ₄₀	14.6	0.15	20000226	32.13777	72.46831	22.98683	3.07159	0.1257984	2.4515774	44	1	163 days	0.47	M-v	4	Williams	39569	2000 AZ ₄₀
2000 AA ₄₁	14.3	0.15	20000226	307.83419	99.54630	93.45790	7.38591	0.0528860	2.3630919	45	1	163 days	0.50	M-v	4	Williams	39569	2000 AA ₄₁
2000 AM ₄₁	14.0	0.15	20000117	295.13936	239.51199	324.27029	12.45463	0.1091621	3.0874323	31	1	54 days	0.59			Williams		2000 AM ₄₁
2000 AT ₄₁	15.4	0.15	20000226	57.77781	87.73199	323.95519	12.12955	0.2624849	2.4055963	45	1	107 days	0.56	M-v	4	Williams	39569	2000 AT ₄₁
2000 AF ₄₂	14.9	0.15	20000117	348.04878	11.50765	117.05728	14.67051	0.0498555	2.6392397	30	1	27 days	0.66			Williams		2000 AF ₄₂
2000 AH ₄₂	14.8	0.15	20000226	16.65958	201.00662	265.35774	1.38298	0.1442463	2.5849835	49	3	1992–2000	0.59	M-v	4	Williams	38868	2000 AH ₄₂
2000 AL ₄₂	14.0	0.15	20000226	163.74336	244.26259	107.34977	29.69920	0.0972687	1.8876019	60	3	1980–2000	0.44	M-v	2	Williams	39340	2000 AL ₄₂
2000 AP ₄₂	15.1	0.15	20000226	48.26208	79.11065	291.04761	7.42117	0.2422762	2.3080248	16	1	94 days	0.52	M-v	6	Williams		2000 AP ₄₂
2000 AD ₄₃	13.5	0.15	20000226	340.36684	26.29716	117.05324	16.78199	0.1161890	2.6039763	46	1	175 days	0.55	M-v	3	Williams	39569	2000 AD ₄₃
2000 AG ₄₃	14.4	0.15	20000226	53.43708	306.20312	109.85082	14.73057	0.1201533	2.4537557	37	1	148 days	0.46	M-v	4	Williams	39569	2000 AG ₄₃
2000 AM ₄₃	14.3	0.15	20000226	75.23652	210.52699	160.80973	5.06152	0.1201277	2.4228602	53	3	1991–2000	0.69	M-v	4	Williams	38634	2000 AM ₄₃
2000 AW ₄₄	15.4	0.15	20000117	285.20254	126.53006	78.71656	2.63561	0.1227265	2.2594928	52	1	39 days	0.48			Williams		2000 AW ₄₄
2000 AF ₄₅	12.6	0.15	20000226	185.80135	63.55074	263.85302	10.22541	0.0887652	3.0960628	72	2	1998–2000	0.49	M-v	3	Williams	39569	2000 AF ₄₅
2000 AK ₄₅	14.3	0.15	20000226	318.69128	246.83566	269.60642	5.78855	0.0604560	2.3132306	38	1	111 days	0.41	M-v	4	Williams	39569	2000 AK ₄₅
2000 AZ ₄₆	13.4	0.15	20000226	326.67323	202.21852	325.62240	9.22195	0.0115230	3.0569072	41	1	60 days	0.47	M-v	5	Williams		2000 AZ ₄₆
2000 AB ₄₇	13.3	0.15	20000226	182.14298	344.93584	326.88744	9.55478	0.0793411	2.9746611	45	1	131 days	0.55	M-v	4	Williams	38868	2000 AB ₄₇
2000 AK ₄₇	15.5	0.15	20000226	21.03061	133.23013	340.52941	2.19482	0.1501262	2.4109135	54	1	82 days	0.54	M-v	4	Williams	39569	2000 AK ₄₇
2000 AM ₄₇	15.4	0.15	20000226	273.37170	107.25001	127.20070	6.60028	0.0631047	2.2418059	34	1	86 days	0.48	M-v	4	Williams	39569	2000 AM ₄₇
2000 AO ₄₇	15.1	0.15	20000226	48.13047	117.00962	317.88432	4.37647	0.1870078	2.5805888	74	1	61 days	0.47	M-v	4	Williams	39569	2000 AO ₄₇
2000 AP ₄₇	13.9	0.15	20000226	114.37297	42.42046	332.85824	1.32867	0.1068648	2.9263465	58	2	1998–2000	0.54	M-v	4	Williams	39569	2000 AP ₄₇
2000 AV ₄₇	15.3	0.15	20000226	13.56926	16.51685	111.67523	5.51336	0.1501116	2.3030439	63	1	117 days	0.60	M-v	3	Williams	39569	2000 AV ₄₇
2000 AZ ₄₇	14.1	0.15	20000226	291.80209	120.34052	118.78353	9.33258	0.2270484	2.7447467	36	1	68 days	0.51	M-v	5	Williams	39569	2000 AZ ₄₇
2000 AC ₄₈	13.5	0.15	20000226	59.72115	299.89957	129.18944	12.24410	0.1114262	3.0659145	73	1	91 days	0.51	M-v	4	Williams	39569	2000 AC ₄₈
2000 AE ₄₈	15.5	0.15	19991228	59.39765	243.33827	138.79195	2.53977	0.2537872	2.5322215	33	1	58 days	0.74			Williams		2000 AE ₄₈
2000 AH ₄₈	14.7	0.15	20000226	94.10671	88.72020	287.34302	14.09255	0.1346375	2.6031514	46	3	1996–2000	0.69	M-v	3	Williams	38635	2000 AH ₄₈
2000 AN ₄₈	14.6	0.15	20000226	75.72205	251.03570	134.37504	1.04065	0.2206020	2.3834976	86	3	1996–2000	0.59	M-v	4	Williams	39569	2000 AN ₄₈

2000 AH ₄₉	15.9	0.15	20000226	72.85386	106.37883	285.84923	4.12104	0.1714190	2.2101908	30	3	1992–2000	0.58	M-v	4	Williams	38635	2000 AH ₄₉
2000 AN ₄₉	14.7	0.15	20000226	36.98820	318.95245	128.06906	28.94826	0.1146171	2.5861654	42	1	61 days	0.56	M-v	5	Williams	38869	2000 AN ₄₉
2000 AY ₄₉	14.7	0.15	20000226	61.01230	278.98721	119.57370	9.93128	0.2729206	2.7436370	47	1	68 days	0.61	M-v	5	Williams	38869	2000 AY ₄₉
2000 AC ₅₀	13.3	0.15	20000226	337.69916	208.08479	318.14877	4.32637	0.1327319	3.1641310	59	2	1998–2000	0.52	M-v	3	Williams	39569	2000 AC ₅₀
2000 AM ₅₀	14.8	0.15	20000226	359.59989	15.73545	128.18564	14.10139	0.1342862	2.5995558	59	1	96 days	0.54	M-v	3	Williams	39569	2000 AM ₅₀
2000 AO ₅₀	12.8	0.15	20000226	204.31180	163.50993	138.15856	10.81160	0.0818455	3.0302982	90	1	110 days	0.51	M-v	4	Williams	39569	2000 AO ₅₀
2000 AP ₅₀	12.0	0.15	20000226	108.70735	69.15025	292.89018	12.42841	0.2143552	2.6199253	93	1	176 days	0.53	M-v	4	Williams	39569	2000 AP ₅₀
2000 AR ₅₀	14.7	0.15	20000226	19.25804	265.56371	206.05520	2.71357	0.1454396	2.5467612	56	1	102 days	0.56	M-v	4	Williams	39569	2000 AR ₅₀
2000 AS ₅₀	12.7	0.15	20000226	156.51796	185.91692	140.05369	10.07132	0.1245555	2.6651655	58	4	1963–2000	0.80	M-v	2	Williams	39569	2000 AS ₅₀
2000 AT ₅₀	13.5	0.15	20000226	1.30216	11.44136	122.37142	12.77977	0.1292715	2.6813680	78	1	165 days	0.50	M-v	3	Williams	39569	2000 AT ₅₀
2000 AU ₅₀	13.0	0.15	20000226	143.06018	52.04906	294.30672	4.20202	0.0667994	2.9563606	86	4	1993–2000	0.60	M-v	3	Williams	39569	2000 AU ₅₀
2000 AV ₅₀	14.1	0.15	20000226	57.10433	228.89552	186.01208	2.98500	0.1972436	2.6619217	63	3	1997–2000	0.61	M-v	2	Williams	39569	2000 AV ₅₀
2000 AJ ₅₁	12.6	0.15	20000226	263.26148	227.21602	288.07331	7.98193	0.0516191	3.2575595	16	1	64 days	0.45	M-v	6	Williams		2000 AJ ₅₁
2000 AM ₅₁	12.9	0.15	20000226	302.66143	222.29617	255.92348	8.80939	0.0486084	3.0591086	70	3	1976–2000	0.70	M-v	3	Williams	39340	2000 AM ₅₁
2000 AW ₅₁	14.5	0.15	20000226	37.90756	107.67549	275.58566	8.08949	0.1722258	2.5179857	15	1	64 days	0.36	M-v	5	Williams		2000 AW ₅₁
2000 AB ₅₂	14.3	0.15	20000226	358.47746	174.53872	261.04085	5.83412	0.0888494	2.3994305	15	1	83 days	0.47	M-v	6	Williams		2000 AB ₅₂
2000 AD ₅₂	13.9	0.15	20000226	73.39234	42.22511	287.34942	9.14871	0.2451104	2.5330499	48	1	125 days	0.38	M-v	4	Williams	38869	2000 AD ₅₂
2000 AG ₅₂	14.7	0.15	20000226	15.33428	18.27393	37.65267	12.32484	0.1664404	2.6858519	77	1	121 days	0.61	M-v	3	Williams	39569	2000 AG ₅₂
2000 AJ ₅₂	14.9	0.15	20000226	56.48881	15.11376	349.18275	5.11365	0.1335256	2.5747867	36	1	86 days	0.64	M-v	4	Williams	38869	2000 AJ ₅₂
2000 AM ₅₂	15.0	0.15	20000226	26.83644	0.85943	39.18265	10.49050	0.1774042	2.7480224	68	1	96 days	0.50	M-v	3	Williams	39569	2000 AM ₅₂
2000 AO ₅₂	14.6	0.15	20000226	9.30091	177.42435	249.91372	12.45669	0.2216929	2.7224188	38	1	85 days	0.51	M-v	4	Williams	38869	2000 AO ₅₂
2000 AP ₅₂	14.6	0.15	20000226	70.68563	38.15471	305.42336	4.11864	0.2008997	2.5417667	56	1	93 days	0.46	M-v	4	Williams	38869	2000 AP ₅₂
2000 AQ ₅₂	14.9	0.15	20000226	81.23066	28.29194	301.20822	4.17044	0.2511358	2.3194545	56	1	93 days	0.48	M-v	4	Williams	38869	2000 AQ ₅₂
2000 AR ₅₂	16.5	0.15	20000226	10.63835	185.73835	250.51043	2.71779	0.2099512	2.2661150	55	1	85 days	0.57	M-v	4	Williams	39569	2000 AR ₅₂
2000 AS ₅₂	15.3	0.15	20000226	20.03061	133.00454	284.15903	2.69841	0.1609960	2.4756462	68	2	1991–2000	0.52	M-v	3	Williams	38637	2000 AS ₅₂
2000 AX ₅₂	15.6	0.15	20000226	39.31367	95.66802	291.43616	4.06686	0.2389536	2.3547012	50	1	110 days	0.49	M-v	3	Williams	38869	2000 AX ₅₂
2000 AY ₅₂	15.3	0.15	20000226	2.24661	158.80055	284.69115	3.92899	0.1571126	2.4047272	48	2	1993–2000	0.52	M-v	4	Williams	38637	2000 AY ₅₂
2000 AA ₅₃	15.3	0.15	20000226	37.24286	52.60013	339.03287	2.78650	0.2527574	2.5197431	21	1	87 days	0.49	M-v	5	Williams		2000 AA ₅₃
2000 AB ₅₃	15.5	0.15	20000226	25.07979	155.76031	266.55782	5.04435	0.1874716	2.2726461	50	1	92 days	0.54	M-v	3	Williams	38869	2000 AB ₅₃
2000 AQ ₅₃	14.9	0.15	20000226	312.37933	69.74515	109.21895	6.85711	0.0557747	2.3991444	30	1	65 days	0.47	M-v	4	Williams	38869	2000 AQ ₅₃
2000 AR ₅₃	14.8	0.15	20000226	80.92446	265.60084	114.09692	10.07816	0.2300860	2.3363974	48	2	1993–2000	0.54	M-v	4	Williams	38637	2000 AR ₅₃
2000 AW ₅₃	14.9	0.15	20000226	8.37586	4.94376	114.19429	5.24629	0.1321074	2.5645614	33	2	1992–2000	0.51	M-v	3	Williams	38638	2000 AW ₅₃
2000 AC ₅₄	14.3	0.15	20000226	312.75015	75.21397	109.30713	6.68321	0.0771495	2.2138423	66	2	1998–2000	0.60	M-v	4	Williams	38638	2000 AC ₅₄
2000 AD ₅₄	15.1	0.15	20000226	345.24739	43.95885	109.84514	4.29977	0.1738619	2.3543308	45	1	86 days	0.54	M-v	4	Williams	38870	2000 AD ₅₄
2000 AE ₅₄	14.4	0.15	20000226	352.10735	210.25472	292.38856	3.94850	0.1256858	2.2725263	54	1	165 days	0.59	M-v	4	Williams	39570	2000 AE ₅₄
2000 AF ₅₄	14.1	0.15	20000226	109.35514	245.80633	112.67553	7.62256	0.2000396	2.2845044	61	1	105 days	0.57	M-v	4	Williams	39570	2000 AF ₅₄
2000 AG ₅₄	16.2	0.15	19991228	21.34801	140.64221	294.35266	10.44986	0.2384917	2.4436410	19	1	50 days	0.59			Williams		2000 AG ₅₄
2000 AJ ₅₄	12.5	0.15	20000226	205.64338	343.49267	299.84940	11.64413	0.0749830	2.9319552	62	1	175 days	0.57	M-v	4	Williams	39570	2000 AJ ₅₄
2000 AO ₅₄	15.0	0.15	20000226	84.38892	282.47998	96.96280	3.16480	0.2155543	2.4298108	33	3	1994–2000	0.63	M-v	3	Williams	38638	2000 AO ₅₄
2000 AP ₅₄	15.3	0.15	19991228	36.79147	108.67382	315.39829	4.01000	0.1506415	2.7188957	35	1	55 days	0.57			Williams		2000 AP ₅₄
2000 AU ₅₄	14.6	0.15	20000117	6.62637	166.02278	303.68482	9.40054	0.1678638	3.1626677	41	1	39 days	0.53			Williams		2000 AU ₅₄
2000 AV ₅₄	15.9	0.15	20000226	45.35999	328.62682	107.41122	7.45386	0.1066604	2.4161197	32	2	1997–2000	0.63	M-v	5	Williams	38638	2000 AV ₅₄
2000 AW ₅₄	15.8	0.15	20000226	30.18126	344.85055	109.22695	6.12330	0.1313164	2.2525792	50	2	1998–2000	0.58	M-v	4	Williams	38638	2000 AW ₅₄
2000 AA ₅₅	14.1	0.15	20000226	39.51132	322.92312	113.27427	6.75978	0.1510120	3.1797380	30	2	1998–2000	0.55	M-v	3	Williams	38639	2000 AA ₅₅
2000 AB ₅₅	15.0	0.15	19991228	23.25501	325.53914	115.65331	19.07156	0.1855141	3.1405685	12	1	9 days	0.47			Williams		2000 AB ₅₅
2000 AE ₅₅	13.9	0.15	20000226	284.18315	100.32569	118.80318	13.04909	0.1248998	2.6716858	48	1	164 days	0.51	M-v	4	Williams	39570	2000 AE ₅₅
2000 AF ₅₅	14.0	0.15	20000117	334.98331	28.86374	123.10690	2.16526	0.1139204	3.1587154	26	1	39 days	0.49			Williams		2000 AF ₅₅
2000 AG ₅₅	11.4	0.15	20000226	41.06457	339.09914	102.83466	6.78319	0.0269062	5.0797636	23	2	1997–2000	0.56	M-v	4	Williams	38639	2000 AG ₅₅
2000 AJ ₅₅	12.6	0.15	20000226	54.49085	126.12408	299.25534	11.53085	0.0913055	2.9480650	88	3	1995–2000	0.66	M-v	1	Williams	39570	2000 AJ ₅₅
2000 AO ₅₅	13.7	0.15	20000226	97.77186	259.99078	115.92235	5.55794	0.1560130	2.2739767	87	3	1983–2000	0.53	M-v	1	Williams	39341	2000 AO ₅₅
2000 AP ₅₅	15.6	0.15	20000117	347.90574	22.15968	113.66033	4.74446	0.1250242	2.3121554	28	1	43 days	0.51			Williams		2000 AP ₅₅
2000 AR ₅₅	15.5	0.15	20000226	50.52269	132.85309	296.69785	4.38302	0.1442673	2.2303248	26	1	60 days	0.44	M-v	5	Williams		2000 AR ₅₅
2000 AU ₅₅	15.5	0.15	20000117	92.19178	62.82663	312.36180	7.24732	0.1146308	2.3006652	27	1	41 days	0.48			Williams		2000 AU ₅₅

2000 AX ₅₅	14.9	0.15	19991228	83.07342	297.30633	71.55983	1.73075	0.2136952	2.5157188	31	1	58 days	0.57		Williams		2000 AX ₅₅
2000 AY ₅₅	14.9	0.15	20000226	224.10815	314.79931	318.98534	2.90738	0.0979547	2.2330070	44	2	1998–2000	0.58	M-v 4	Williams	39570	2000 AY ₅₅
2000 AZ ₅₅	15.1	0.15	20000226	1.49421	121.41446	10.95567	0.70546	0.2777998	3.0208580	36	1	88 days	0.55	M-v 4	Williams	38870	2000 AZ ₅₅
2000 AA ₅₆	15.1	0.15	20000226	304.67234	250.48518	311.53378	2.32215	0.1358968	2.4679089	40	2	1994–2000	0.49	M-v 4	Williams	38639	2000 AA ₅₆
2000 AB ₅₆	13.4	0.15	20000226	267.20056	134.74417	103.04639	2.01849	0.1398323	3.1720814	39	1	60 days	0.61	M-v 5	Williams	39570	2000 AB ₅₆
2000 AC ₅₆	15.1	0.15	20000226	87.52662	69.33405	309.34246	1.55815	0.2268942	2.3909619	40	2	1991–2000	0.50	M-v 4	Williams	38640	2000 AC ₅₆
2000 AE ₅₆	14.7	0.15	20000226	280.10259	285.96365	295.72308	2.80771	0.0763838	2.3114518	38	3	1975–2000	0.51	M-v 4	Williams	38640	2000 AE ₅₆
2000 AG ₅₆	14.8	0.15	20000226	154.42093	211.90683	118.97463	6.69550	0.1421281	2.3226427	55	2	1998–2000	0.60	M-v 4	Williams	38640	2000 AG ₅₆
2000 AH ₅₆	15.0	0.15	20000117	350.58177	24.83973	106.95305	7.17229	0.0529657	2.4018946	29	1	38 days	0.50		Williams		2000 AH ₅₆
2000 AK ₅₆	14.2	0.15	20000226	88.07016	284.02179	110.63628	7.74954	0.0697255	2.8786508	31	1	71 days	0.74	M-v 5	Williams	39570	2000 AK ₅₆
2000 AM ₅₆	15.2	0.15	20000226	307.14472	251.76937	311.88817	4.60049	0.1645988	2.3285864	48	2	1998–2000	0.57	M-v 4	Williams	39570	2000 AM ₅₆
2000 AP ₅₆	15.7	0.15	19991228	358.55848	23.13564	93.50835	4.04681	0.1575232	2.6364002	11	1	9 days	0.57		Williams		2000 AP ₅₆
2000 AQ ₅₆	14.7	0.15	20000226	25.87805	0.82303	102.63096	7.17593	0.0654860	2.4274998	33	1	109 days	0.38	M-v 4	Williams		2000 AQ ₅₆
2000 AL ₅₇	14.6	0.15	20000226	81.75632	45.02815	346.60316	2.76885	0.1772382	2.2459076	32	1	87 days	0.47	M-v 5	Williams	38870	2000 AL ₅₇
2000 AM ₅₇	15.2	0.15	20000226	320.48522	248.48532	301.89958	9.66451	0.1869752	2.4712564	39	1	65 days	0.64	M-v 5	Williams	39570	2000 AM ₅₇
2000 AO ₅₇	15.7	0.15	19991228	33.15414	305.84120	115.35111	4.38078	0.2603487	2.7321440	14	1	9 days	0.82		Williams		2000 AO ₅₇
2000 AP ₅₇	15.6	0.15	20000226	345.26084	59.83600	94.52602	0.18348	0.1286584	2.5268338	33	3	1994–2000	0.48	M-v 4	Williams	38641	2000 AP ₅₇
2000 AQ ₅₇	14.4	0.15	20000226	252.76207	312.37923	298.14415	5.39745	0.0920636	2.3149495	55	2	1998–2000	0.65	M-v 4	Williams	38641	2000 AQ ₅₇
2000 AR ₅₇	15.3	0.15	20000117	62.81728	284.58736	115.92992	3.54862	0.1805334	2.5991305	29	1	38 days	0.60		Williams		2000 AR ₅₇
2000 AS ₅₇	14.8	0.15	20000226	39.17894	134.76955	313.50174	5.98751	0.0870188	2.3768589	57	2	1998–2000	0.60	M-v 3	Williams	39570	2000 AS ₅₇
2000 AA ₅₈	14.0	0.15	20000226	268.08836	118.33822	109.20264	5.91490	0.0142506	2.3835648	69	2	1998–2000	0.64	M-v 4	Williams	39570	2000 AA ₅₈
2000 AB ₅₈	13.7	0.15	20000226	252.58546	145.05858	116.87277	13.20530	0.2310885	2.5488205	42	1	138 days	0.56	M-v 4	Williams		2000 AB ₅₈
2000 AD ₅₈	16.5	0.15	20000117	14.93126	331.45815	130.47244	1.18003	0.1825496	2.4780914	25	1	39 days	0.60		Williams		2000 AD ₅₈
2000 AE ₅₈	14.3	0.15	20000226	344.14265	221.33573	297.15302	6.43376	0.1496989	2.7131324	64	1	131 days	0.61	M-v 4	Williams	39570	2000 AE ₅₈
2000 AF ₅₈	13.8	0.15	20000226	350.85790	200.89634	303.94534	9.19216	0.0655161	3.1583598	43	1	61 days	0.55	M-v 5	Williams	39570	2000 AF ₅₈
2000 AJ ₅₈	13.9	0.15	20000226	336.58669	169.31341	356.27555	1.53182	0.1391961	3.0167011	51	3	1995–2000	0.53	M-v 5	Williams	39570	2000 AJ ₅₈
2000 AQ ₅₈	13.9	0.15	20000226	289.84570	98.18897	109.02533	10.27619	0.0299508	2.7246237	28	1	89 days	0.44	M-v 5	Williams		2000 AQ ₅₈
2000 AS ₅₈	14.4	0.15	20000226	5.43497	177.92813	309.16631	14.76145	0.2223657	3.0964735	47	1	110 days	0.62	M-v 3	Williams	39570	2000 AS ₅₈
2000 AT ₅₈	15.2	0.15	20000226	252.55727	217.52842	29.09738	2.25544	0.0523500	2.2821348	51	3	1997–2000	0.54	M-v 3	Williams	39570	2000 AT ₅₈
2000 AX ₅₈	14.5	0.15	20000226	41.62872	112.32805	325.66493	4.86593	0.1718419	2.6723706	43	1	109 days	0.54	M-v 4	Williams		2000 AX ₅₈
2000 AL ₅₉	15.2	0.15	20000117	235.12754	320.17835	307.03705	5.43468	0.2091852	2.2898275	21	1	51 days	0.53		Williams		2000 AL ₅₉
2000 AR ₅₉	13.1	0.15	20000226	293.93736	104.77081	125.62307	14.20087	0.2564915	3.1664824	50	1	65 days	0.47	M-v 4	Williams	39570	2000 AR ₅₉
2000 AX ₅₉	16.6	0.15	20000117	28.47054	0.27790	85.04769	2.71684	0.1607812	2.3174377	21	1	38 days	0.49		Williams		2000 AX ₅₉
2000 AZ ₅₉	13.6	0.15	20000226	166.00715	245.08475	82.76150	2.76995	0.0309908	2.9632232	60	3	1996–2000	0.72	M-v 3	Williams	39570	2000 AZ ₅₉
2000 AA ₆₀	14.0	0.15	20000226	10.53883	169.31367	311.04900	4.78755	0.2534382	3.0685714	53	1	165 days	0.47	M-v 3	Williams	39570	2000 AA ₆₀
2000 AG ₆₀	16.2	0.15	20000117	41.23627	325.65979	100.62539	1.06736	0.1962390	2.3020762	52	1	39 days	0.71		Williams		2000 AG ₆₀
2000 AJ ₆₀	15.0	0.15	20000226	74.48929	292.31356	106.51770	1.13023	0.2114463	2.3160472	57	1	131 days	0.59	M-v 4	Williams	39570	2000 AJ ₆₀
2000 AK ₆₀	13.5	0.15	20000226	123.64517	242.59797	125.64480	13.65659	0.0423856	3.1344261	78	1	60 days	0.62	M-v 5	Williams	39570	2000 AK ₆₀
2000 AL ₆₀	13.8	0.15	20000226	272.19288	115.40564	121.52503	10.01929	0.1117251	2.7869602	36	1	89 days	0.50	M-v 4	Williams	39570	2000 AL ₆₀
2000 AO ₆₀	16.8	0.15	20000226	338.65727	254.39566	297.44929	5.09033	0.3639208	2.2747592	39	1	61 days	0.65	M-v 5	Williams	39570	2000 AO ₆₀
2000 AP ₆₀	14.3	0.15	20000226	85.00289	85.42829	304.34630	6.61462	0.2004897	2.3694136	82	4	1984–2000	0.52	M-v 1	Williams	39570	2000 AP ₆₀
2000 AV ₆₀	15.1	0.15	20000226	56.57134	114.87751	313.13754	6.63413	0.1321555	2.2389297	57	1	110 days	0.56	M-v 4	Williams	39570	2000 AV ₆₀
2000 AC ₆₁	13.7	0.15	20000226	233.66755	309.53317	323.16440	6.42777	0.1207628	2.3452597	39	1	91 days	0.58	M-v 4	Williams		2000 AC ₆₁
2000 AR ₆₁	14.1	0.15	20000226	12.26914	14.14737	109.66409	6.99630	0.0396106	2.9059458	39	3	1993–2000	0.63	M-v 4	Williams	38643	2000 AR ₆₁
2000 AT ₆₁	15.1	0.15	20000226	8.89953	6.72575	123.14407	3.40585	0.1296426	2.3170067	110	2	1998–2000	0.54	M-v 3	Williams	39570	2000 AT ₆₁
2000 AU ₆₁	13.1	0.15	20000226	275.07927	292.30728	308.95580	6.63902	0.1582372	2.5671666	87	1	151 days	0.44	M-v 4	Williams	39570	2000 AU ₆₁
2000 AV ₆₁	15.2	0.15	20000226	336.31304	229.91288	309.64150	3.65668	0.2317981	2.6503469	76	1	62 days	0.48	M-v 4	Williams	39570	2000 AV ₆₁
2000 AW ₆₁	13.6	0.15	20000226	126.41014	48.39102	307.54552	6.53457	0.1873167	2.7930203	77	3	1993–2000	0.52	M-v 3	Williams	39570	2000 AW ₆₁
2000 AX ₆₁	15.2	0.15	20000226	37.76225	137.58095	317.51228	5.99395	0.0789084	2.4331133	34	1	66 days	0.49	M-v 4	Williams	39570	2000 AX ₆₁
2000 AZ ₆₁	14.8	0.15	20000226	55.52867	103.40835	310.48393	11.61918	0.2641828	2.6880526	35	1	61 days	0.37	M-v 5	Williams	39570	2000 AZ ₆₁
2000 AA ₆₂	13.0	0.15	20000226	234.09961	153.25261	122.76462	14.94351	0.1556233	2.6637936	57	2	1998–2000	0.51	M-v 3	Williams	39571	2000 AA ₆₂
2000 AE ₆₂	13.7	0.15	20000226	266.57905	309.69993	308.04274	22.85737	0.2381926	2.4069390	64	1	92 days	0.49	M-v 4	Williams	39571	2000 AE ₆₂
2000 AF ₆₂	13.6	0.15	20000226	28.86656	341.47614	123.24501	14.60552	0.1112206	2.6116183	59	1	136 days	0.54	M-v 3	Williams	39571	2000 AF ₆₂

2000 AJ ₆₂	15.3	0.15	20000117	184.79303	184.61749	122.56746	6.48919	0.1886846	2.2824359	29	1	38 days	0.68		Williams		2000 AJ ₆₂
2000 AQ ₆₂	14.1	0.15	20000226	294.90303	103.02717	108.23276	7.35087	0.0634779	2.3588880	53	1	138 days	0.54	M-v 4	Williams	39571	2000 AQ ₆₂
2000 AW ₆₂	15.4	0.15	20000226	308.56840	168.52663	32.95006	3.47557	0.1214677	2.4556030	35	3	1977–2000	0.48	M-v 4	Williams	38644	2000 AW ₆₂
2000 AY ₆₂	13.4	0.15	20000226	34.55471	356.83869	97.55197	7.92526	0.1164318	3.0732997	60	1	164 days	0.57	M-v 4	Williams	39571	2000 AY ₆₂
2000 AE ₆₃	14.6	0.15	20000226	43.67200	101.78386	331.75180	9.59597	0.2202879	2.9730993	48	2	1998–2000	0.65	M-v 3	Williams	39571	2000 AE ₆₃
2000 AP ₆₃	15.1	0.15	20000226	331.16991	70.16092	102.68397	7.66060	0.0500114	2.2971795	46	1	117 days	0.72	M-v 4	Williams	39571	2000 AP ₆₃
2000 AS ₆₃	14.3	0.15	20000226	315.99347	78.26444	120.41864	11.20841	0.1553226	2.6623010	33	1	89 days	0.58	M-v 4	Williams	39571	2000 AS ₆₃
2000 AT ₆₃	14.1	0.15	20000226	71.96500	92.95645	312.16114	11.81185	0.1941765	2.5400374	96	3	1996–2000	0.62	M-v 1	Williams	39571	2000 AT ₆₃
2000 AZ ₆₃	15.0	0.15	20000226	39.02108	124.15112	324.80474	5.69041	0.1661558	2.5462499	58	2	1992–2000	0.59	M-v 4	Williams	39571	2000 AZ ₆₃
2000 AA ₆₄	11.7	0.15	20000226	290.74848	97.20376	120.61273	7.65410	0.0778894	4.0072425	76	4	1996–2000	0.61	M-v 2	Williams	39571	2000 AA ₆₄
2000 AB ₆₄	14.4	0.15	20000226	133.68426	269.09159	83.75929	2.81708	0.1872079	2.2360824	37	1	117 days	0.46	M-v 4	Williams	39571	2000 AB ₆₄
2000 AC ₆₄	15.3	0.15	20000226	29.26907	148.50245	319.91933	6.18634	0.0774794	2.4165972	48	1	61 days	0.53	M-v 5	Williams	39571	2000 AC ₆₄
2000 AE ₆₄	13.5	0.15	20000226	275.54577	122.40544	128.50173	14.50534	0.2234575	2.6715623	56	2	1988–2000	0.44	M-v 4	Williams	39571	2000 AE ₆₄
2000 AF ₆₄	14.8	0.15	20000226	287.64319	105.47334	116.05371	5.11804	0.0639594	2.3356916	59	2	1998–2000	0.55	M-v 4	Williams	39571	2000 AF ₆₄
2000 AG ₆₄	14.1	0.15	20000226	253.64781	130.83026	122.13379	9.37919	0.0424108	2.3254229	46	1	96 days	0.49	M-v 4	Williams	39571	2000 AG ₆₄
2000 AJ ₆₄	13.0	0.15	20000226	270.06748	128.37215	115.62382	10.28438	0.1148799	2.8110917	46	1	96 days	0.47	M-v 4	Williams	39571	2000 AJ ₆₄
2000 AM ₆₄	12.8	0.15	20000226	236.54597	231.85650	34.36704	3.89256	0.0344837	3.2021970	35	1	64 days	0.44	M-v 5	Williams	39571	2000 AM ₆₄
2000 AS ₆₄	14.9	0.15	20000226	341.08602	60.79695	107.44408	12.63922	0.1326346	2.3891828	21	1	68 days	0.34	M-v 5	Williams		2000 AS ₆₄
2000 AU ₆₄	14.4	0.15	20000226	335.31572	73.71704	101.20835	9.11001	0.1312312	2.5435546	66	1	120 days	0.53	M-v 4	Williams	39571	2000 AU ₆₄
2000 AZ ₆₄	15.7	0.15	20000226	340.97969	80.93506	88.97954	3.15840	0.1430591	2.3357976	48	1	89 days	0.50	M-v 4	Williams	39571	2000 AZ ₆₄
2000 AA ₆₅	13.9	0.15	20000226	92.09755	307.96783	96.05746	3.34191	0.0497908	2.8496236	54	1	92 days	0.54	M-v 4	Williams	39571	2000 AA ₆₅
2000 AB ₆₅	14.0	0.15	20000226	19.88495	164.96156	313.18979	12.37486	0.1130205	2.6699963	66	1	139 days	0.50	M-v 3	Williams	39571	2000 AB ₆₅
2000 AD ₆₅	14.7	0.15	20000226	52.82740	324.61271	119.83120	8.94278	0.0592637	2.5649581	69	1	65 days	0.53	M-v 4	Williams	39571	2000 AD ₆₅
2000 AE ₆₅	14.3	0.15	20000226	285.48313	273.45584	317.44287	12.14562	0.1179944	2.5273091	58	1	61 days	0.42	M-v 4	Williams	39571	2000 AE ₆₅
2000 AM ₆₅	14.2	0.15	20000226	25.28719	1.94639	105.36472	9.59765	0.1813939	3.0777903	23	1	68 days	0.63	M-v 4	Williams	39571	2000 AM ₆₅
2000 AS ₆₅	14.0	0.15	20000226	305.73577	212.82599	356.49757	8.44229	0.1296115	2.9819635	40	1	94 days	0.51	M-v 4	Williams	39571	2000 AS ₆₅
2000 AT ₆₅	13.8	0.15	20000226	105.61999	271.65575	107.17796	13.62638	0.1713223	2.6709816	18	1	68 days	0.38	M-v 6	Williams		2000 AT ₆₅
2000 AW ₆₅	13.8	0.15	20000226	288.80917	130.26995	84.09744	7.06590	0.0068477	2.8480058	45	3	1993–2000	0.52	M-v 3	Williams	39341	2000 AW ₆₅
2000 AC ₆₆	13.1	0.15	20000226	74.27796	343.21103	79.26876	3.03505	0.0733431	3.0187682	90	3	1996–2000	0.56	M-v 2	Williams	39571	2000 AC ₆₆
2000 AD ₆₆	15.0	0.15	20000226	81.10515	343.49632	58.72031	0.57838	0.1913408	2.3065254	91	5	1981–2000	0.61	M-v 2	Williams	39571	2000 AD ₆₆
2000 AG ₆₆	15.4	0.15	20000226	345.93066	80.34570	91.45181	5.64410	0.2463622	2.5874486	34	1	68 days	0.56	M-v 4	Williams	39572	2000 AG ₆₆
2000 AH ₆₆	15.2	0.15	20000226	15.45939	7.02852	120.04093	18.07783	0.1147056	2.5818987	16	1	68 days	0.55	M-v 6	Williams		2000 AH ₆₆
2000 AL ₆₆	13.6	0.15	20000226	44.86337	108.17781	341.83628	10.76090	0.0931554	3.2498798	30	1	61 days	0.53	M-v 5	Williams	39572	2000 AL ₆₆
2000 AN ₆₆	13.6	0.15	20000226	306.23628	89.83414	115.15406	15.42304	0.0590978	2.5990781	21	1	68 days	0.32	M-v 6	Williams		2000 AN ₆₆
2000 AO ₆₆	13.3	0.15	20000226	314.03753	81.45849	119.31641	17.57193	0.0965603	2.7106473	25	1	88 days	0.34	M-v 4	Williams		2000 AO ₆₆
2000 AQ ₆₆	15.3	0.15	20000226	19.71105	22.86445	97.29248	6.13991	0.1793188	2.3874966	49	1	68 days	0.48	M-v 4	Williams	39572	2000 AQ ₆₆
2000 AR ₆₆	15.2	0.15	20000226	64.63897	91.40003	325.65867	11.23480	0.2162231	2.3727870	68	1	93 days	0.56	M-v 4	Williams	39572	2000 AR ₆₆
2000 AU ₆₆	13.4	0.15	20000226	102.25378	33.17282	357.40965	9.39217	0.0998932	3.0574793	35	1	68 days	0.63	M-v 5	Williams	39572	2000 AU ₆₆
2000 AJ ₆₇	14.9	0.15	20000226	42.27020	147.59314	303.19437	1.94763	0.0800564	2.5123129	46	1	65 days	0.45	M-v 4	Williams	39572	2000 AJ ₆₇
2000 AP ₆₇	15.1	0.15	20000226	274.62964	261.92508	331.06746	2.31585	0.0487534	2.3462570	58	2	1998–2000	0.53	M-v 4	Williams	39572	2000 AP ₆₇
2000 AT ₆₇	14.0	0.15	20000226	132.24512	263.70485	97.55048	6.53321	0.0990046	2.7670198	75	2	1998–2000	0.58	M-v 4	Williams	39342	2000 AT ₆₇
2000 AB ₆₈	13.9	0.15	20000226	263.89060	147.64288	115.00706	12.61512	0.1524060	2.5933260	45	1	68 days	0.47	M-v 5	Williams	39572	2000 AB ₆₈
2000 AC ₆₈	13.2	0.15	20000226	228.12948	186.63392	110.51062	11.55835	0.2449541	2.4579376	59	3	1989–2000	0.83	M-v 2	Williams	39342	2000 AC ₆₈
2000 AD ₆₈	12.2	0.15	20000226	126.43831	267.80979	105.59511	11.11784	0.1055478	3.0207186	91	3	1991–2000	0.54	M-v 2	Williams	39342	2000 AD ₆₈
2000 AF ₆₈	14.2	0.15	20000226	0.79717	265.19062	163.50912	7.24436	0.0963005	2.4227603	36	1	126 days	0.43	M-v 4	Williams		2000 AF ₆₈
2000 AM ₆₈	12.5	0.15	20000226	242.23696	137.57976	72.64873	36.26677	0.1701215	2.7691083	61	1	137 days	0.51	M-v 4	Williams	39572	2000 AM ₆₈
2000 AP ₆₈	12.9	0.15	20000226	252.99311	110.42564	84.23934	13.35661	0.0474376	3.0614785	48	1	105 days	0.56	M-v 4	Williams	38872	2000 AP ₆₈
2000 AR ₆₉	13.3	0.15	20000226	304.13561	73.74192	93.66047	17.09033	0.1804660	3.1294486	41	1	146 days	0.66	M-v 4	Williams	39572	2000 AR ₆₉
2000 AX ₆₉	14.8	0.15	20000226	19.65134	237.31001	198.07725	3.85814	0.2353280	2.5822466	59	1	145 days	0.49	M-v 3	Williams	39572	2000 AX ₆₉
2000 AP ₇₀	13.8	0.15	20000226	4.68522	327.03234	134.75500	5.02348	0.1668029	2.3898951	63	3	1971–2000	0.50	M-v 2	Williams	39572	2000 AP ₇₀
2000 AA ₇₁	13.3	0.15	20000226	349.88693	359.62566	107.95629	9.72333	0.0818921	3.1725613	39	1	108 days	0.49	M-v 4	Williams	39572	2000 AA ₇₁
2000 AS ₇₁	14.0	0.15	20000226	2.04133	358.17877	93.39205	14.96650	0.0816360	2.6384802	44	1	146 days	0.50	M-v 3	Williams	39572	2000 AS ₇₁
2000 AT ₇₅	14.3	0.15	20000226	45.64840	299.16086	107.58240	14.14959	0.1824440	2.5831245	36	1	116 days	0.41	M-v 4	Williams	38872	2000 AT ₇₅

2000 AG ₇₆	13.2	0.15	20000226	304.18786	58.99122	117.50149	12.91355	0.1316436	2.5532972	44	3	1988–2000	0.53	M-v	3	Williams	39572	2000 AG ₇₆
2000 AY ₇₈	13.7	0.15	20000226	49.17029	179.29388	232.82618	6.81372	0.1274060	2.7557324	37	1	145 days	0.49	M-v	4	Williams	39572	2000 AY ₇₈
2000 AJ ₇₉	14.4	0.15	20000226	17.72628	340.08176	115.58859	9.17262	0.1327916	2.5696080	44	1	114 days	0.38	M-v	3	Williams	38873	2000 AJ ₇₉
2000 AK ₇₉	14.0	0.15	20000226	122.57927	212.50850	124.44217	7.99848	0.1520408	2.4379904	46	2	1998–2000	0.66	M-v	3	Williams	39343	2000 AK ₇₉
2000 AM ₇₉	14.3	0.15	20000226	107.48425	122.46295	227.62600	5.50313	0.1745533	2.3137684	34	3	1995–2000	0.71	M-v	2	Williams	38649	2000 AM ₇₉
2000 AU ₈₁	15.2	0.15	20000226	323.47607	32.42370	129.73537	5.80368	0.0906624	2.2660432	39	3	1997–2000	0.50	M-v	3	Williams	38650	2000 AU ₈₁
2000 AX ₈₁	14.3	0.15	20000226	72.06027	238.42218	161.75560	2.17217	0.0113998	2.8569710	37	2	1998–2000	0.70	M-v	5	Williams	38650	2000 AX ₈₁
2000 AW ₈₂	14.1	0.15	20000226	92.60850	221.45262	141.69149	5.02849	0.1987704	2.5334490	52	2	1998–2000	0.53	M-v	3	Williams	38873	2000 AW ₈₂
2000 AM ₈₃	13.6	0.15	20000226	341.50805	31.98218	109.93506	8.34068	0.1378643	3.2141638	37	1	66 days	0.63	M-v	5	Williams	38873	2000 AM ₈₃
2000 AN ₈₃	15.6	0.15	20000226	58.40561	296.52067	118.21760	3.49704	0.0811801	2.3357497	29	2	1995–2000	0.37	M-v	4	Williams	38650	2000 AN ₈₃
2000 AP ₈₃	13.9	0.15	20000226	62.66739	297.38944	112.21844	3.14749	0.0480918	2.9069281	50	2	1998–2000	0.66	M-v	4	Williams	39343	2000 AP ₈₃
2000 AQ ₈₃	13.9	0.15	20000226	5.96667	300.65312	170.11918	0.63799	0.1193863	3.1266861	37	2	1998–2000	0.50	M-v	3	Williams	38650	2000 AQ ₈₃
2000 AW ₈₃	14.4	0.15	20000226	40.05978	249.48258	184.35821	2.70772	0.1279854	2.2645277	53	4	1985–2000	0.56	M-v	1	Williams	39572	2000 AW ₈₃
2000 AP ₈₄	11.5	0.15	20000226	33.28423	163.84788	271.50335	6.08037	0.1499349	5.1836634	40	1	116 days	0.49	M-v	4	Williams	39572	2000 AP ₈₄
2000 AS ₈₄	14.4	0.15	20000226	311.51327	271.04247	268.87545	2.67990	0.0866091	2.9453471	28	2	1997–2000	0.48	M-v	4	Williams	38651	2000 AS ₈₄
2000 AT ₈₄	14.6	0.15	20000226	5.69953	287.56868	195.49930	2.00462	0.1652096	2.3438810	44	4	1995–2000	0.53	M-v	1	Williams	38651	2000 AT ₈₄
2000 AU ₈₄	13.5	0.15	20000117	141.79620	49.21287	278.35655	7.93332	0.0966171	3.0979839	20	1	29 days	0.52			Williams		2000 AU ₈₄
2000 AW ₈₄	15.0	0.15	19991228	19.62627	313.77597	128.89007	3.57825	0.1509174	2.4429022	35	1	47 days	0.42			Williams		2000 AW ₈₄
2000 AZ ₈₄	15.3	0.15	20000226	4.87301	272.06025	211.70305	0.75774	0.1351782	2.4181939	35	1	83 days	0.47	M-v	4	Williams	38873	2000 AZ ₈₄
2000 AB ₈₅	14.7	0.15	20000226	36.30020	308.38302	136.24457	4.86291	0.1120169	2.2889379	30	1	83 days	0.45	M-v	4	Williams		2000 AB ₈₅
2000 AC ₈₅	14.4	0.15	20000226	344.39936	230.78144	281.52150	10.52234	0.1856954	2.6448043	34	1	111 days	0.59	M-v	4	Williams	39572	2000 AC ₈₅
2000 AD ₈₅	15.6	0.15	20000226	34.23438	278.17686	166.30284	2.66487	0.1639255	2.2888639	33	2	1997–2000	0.54	M-v	4	Williams	38651	2000 AD ₈₅
2000 AF ₈₅	16.3	0.15	19991228	26.98358	301.17227	127.04296	3.25942	0.2039453	2.3489701	16	1	8 days	0.66			Williams		2000 AF ₈₅
2000 AG ₈₅	15.3	0.15	20000117	14.31719	326.84445	131.83511	2.37859	0.1186307	2.4186377	34	1	33 days	0.52			Williams		2000 AG ₈₅
2000 AH ₈₅	14.1	0.15	20000226	338.09829	38.07189	120.04819	8.82198	0.1537713	2.8101230	44	1	94 days	0.37	M-v	4	Williams		2000 AH ₈₅
2000 AJ ₈₅	13.7	0.15	20000226	25.51230	342.35121	117.89315	7.43364	0.0707861	2.3476808	73	3	1979–2000	0.58	M-v	2	Williams	38652	2000 AJ ₈₅
2000 AO ₈₅	15.6	0.15	20000226	47.33337	212.88863	216.13702	1.63346	0.1381725	2.4847609	35	2	1993–2000	0.51	M-v	5	Williams	38652	2000 AO ₈₅
2000 AP ₈₅	15.0	0.15	20000226	294.29356	55.40562	143.99469	2.56996	0.0597712	2.5928700	22	3	1992–2000	0.56	M-v	5	Williams	38652	2000 AP ₈₅
2000 AQ ₈₅	15.2	0.15	20000226	28.56523	318.94891	137.60844	3.19322	0.0679301	2.4889850	35	3	1994–2000	0.61	M-v	4	Williams	38652	2000 AQ ₈₅
2000 AT ₈₅	13.4	0.15	20000226	272.70611	91.53296	127.36822	15.53321	0.0515516	3.0647578	38	3	1990–2000	0.73	M-v	2	Williams	39343	2000 AT ₈₅
2000 AV ₈₅	14.6	0.15	20000226	35.76725	302.88739	133.80841	5.12592	0.2218868	2.5701459	52	4	1990–2000	0.60	M-v	2	Williams	38652	2000 AV ₈₅
2000 AX ₈₅	13.9	0.15	20000226	329.91063	40.32061	121.84925	14.16489	0.0604985	2.5339363	71	2	1995–2000	0.49	M-v	3	Williams	39572	2000 AX ₈₅
2000 AH ₈₆	13.6	0.15	20000226	329.40197	291.75362	238.40125	0.54875	0.1696223	3.1239097	43	2	1998–2000	0.70	M-v	5	Williams	39572	2000 AH ₈₆
2000 AJ ₈₆	15.0	0.15	20000226	39.00494	171.78511	276.72017	2.45068	0.0328270	2.2705766	42	3	1992–2000	0.58	M-v	3	Williams	38653	2000 AJ ₈₆
2000 AK ₈₆	15.9	0.15	20000117	328.94131	227.22305	290.25343	5.00321	0.1269808	2.3879415	21	1	29 days	0.46			Williams		2000 AK ₈₆
2000 AN ₈₆	15.3	0.15	19991228	256.57421	110.44807	128.27285	5.76819	0.2132881	2.3618224	10	1	8 days	0.50			Williams		2000 AN ₈₆
2000 AO ₈₆	16.0	0.15	20000117	4.01428	310.46778	162.08866	1.13711	0.1460563	2.4249448	21	1	29 days	0.39			Williams		2000 AO ₈₆
2000 AW ₈₆	15.0	0.15	20000226	49.41461	250.01480	180.51060	2.48964	0.1229860	2.3137775	35	2	1997–2000	0.52	M-v	4	Williams	39572	2000 AW ₈₆
2000 AZ ₈₆	14.0	0.15	20000117	290.56808	73.76317	127.62845	9.67147	0.1116853	3.2103964	31	1	42 days	0.59			Williams		2000 AZ ₈₆
2000 AH ₈₇	15.1	0.15	20000117	324.12163	46.28716	115.76995	12.62674	0.1018216	2.6194375	22	1	37 days	0.51			Williams		2000 AH ₈₇
2000 AJ ₈₇	11.4	0.15	20000226	38.71003	319.22094	120.96891	14.20343	0.0671611	5.1955526	36	3	1977–2000	0.44	M-v	3	Williams	38654	2000 AJ ₈₇
2000 AL ₈₇	16.7	0.15	19991228	320.30680	233.82524	295.32014	4.05051	0.1910340	2.6149775	23	1	36 days	0.95			Williams		2000 AL ₈₇
2000 AN ₈₇	14.0	0.15	19991228	220.85975	326.07666	294.32819	11.13173	0.0701826	2.9628718	11	1	8 days	0.41			Williams		2000 AN ₈₇
2000 AT ₈₇	14.9	0.15	20000226	130.41063	83.39409	270.60647	5.08167	0.0779431	2.1693160	42	3	1960–2000	0.70	M-v	3	Williams	38654	2000 AT ₈₇
2000 AU ₈₇	14.4	0.15	20000226	103.50418	183.15414	191.04051	2.66064	0.1244033	2.1744589	36	3	1976–2000	0.54	M-v	3	Williams	38654	2000 AU ₈₇
2000 AV ₈₇	13.1	0.15	20000226	239.64046	127.17284	127.03493	11.18599	0.0646166	2.9706040	46	2	1996–2000	0.54	M-v	4	Williams	39572	2000 AV ₈₇
2000 AC ₈₈	15.1	0.15	20000226	14.95196	323.46155	151.46839	3.45139	0.1190945	2.3881767	32	3	1993–2000	0.63	M-v	4	Williams	38655	2000 AC ₈₈
2000 AE ₈₈	14.2	0.15	20000226	187.55855	151.52313	151.98964	2.54203	0.1123775	2.3324952	44	2	1998–2000	0.65	M-v	4	Williams	38655	2000 AE ₈₈
2000 AL ₈₈	14.7	0.15	20000226	10.05139	213.79180	269.05374	4.16202	0.0783113	2.2990365	52	2	1998–2000	0.52	M-v	3	Williams	38656	2000 AL ₈₈
2000 AN ₈₈	14.8	0.15	20000226	95.17432	201.08108	186.69284	1.70924	0.0918014	2.1922879	22	2	1992–2000	0.48	M-v	5	Williams	38656	2000 AN ₈₈
2000 AO ₈₈	13.6	0.15	20000226	207.36759	163.05062	125.90646	7.54122	0.1388424	2.3505569	74	3	1994–2000	0.59	M-v	3	Williams	39572	2000 AO ₈₈
2000 AP ₈₈	15.1	0.15	19991228	61.77486	117.44709	292.76796	2.63581	0.0353166	2.3828217	13	1	8 days	0.49			Williams		2000 AP ₈₈
2000 AR ₈₈	16.3	0.15	20000226	23.78726	174.83627	290.19623	2.42996	0.1144045	2.3233247	28	2	1995–2000	0.57	M-v	5	Williams	38656	2000 AR ₈₈

2000 AW ₈₈	14.9	0.15	20000226	302.12875	63.21638	133.83845	7.08994	0.0553114	2.3086081	45	2	1998–2000	0.70	M-v	4	Williams	39572	2000 AW ₈₈
2000 AZ ₈₈	13.6	0.15	20000226	46.76809	305.94910	131.59277	11.05186	0.0872655	3.0166244	54	3	1992–2000	0.48	M-v	4	Williams	38657	2000 AZ ₈₈
2000 AA ₈₉	13.8	0.15	20000226	99.28784	153.72447	228.44629	2.09844	0.0956810	2.7502737	73	3	1996–2000	0.59	M-v	3	Williams	39572	2000 AA ₈₉
2000 AD ₈₉	15.3	0.15	19991228	79.23323	241.85595	132.39903	2.78952	0.2075159	2.3762202	11	1	8 days	0.65			Williams		2000 AD ₈₉
2000 AH ₈₉	14.6	0.15	20000226	92.66709	238.26139	152.54476	4.09957	0.0954496	2.1850458	49	3	1994–2000	0.61	M-v	2	Williams	39572	2000 AH ₈₉
2000 AM ₈₉	13.3	0.15	20000226	330.02207	9.78357	167.13999	1.94891	0.1858815	3.1021692	46	2	1997–2000	0.46	M-v	3	Williams	39573	2000 AM ₈₉
2000 AN ₈₉	13.7	0.15	20000226	112.08727	231.17480	130.94068	8.01569	0.1813826	2.7288424	44	2	1998–2000	0.67	M-v	3	Williams	39344	2000 AN ₈₉
2000 AO ₈₉	13.3	0.15	20000226	8.48673	321.25875	162.27671	2.78459	0.0403381	3.1530825	71	2	1998–2000	0.57	M-v	4	Williams	39573	2000 AO ₈₉
2000 AQ ₈₉	13.9	0.15	20000226	176.10817	15.54484	299.97278	5.85315	0.1498038	2.3856218	60	3	1987–2000	0.67	M-v	3	Williams	39573	2000 AQ ₈₉
2000 AR ₈₉	13.0	0.15	20000226	125.75573	52.93864	299.33675	7.96007	0.1733044	2.7836749	44	1	110 days	0.50	M-v	4	Williams	39573	2000 AR ₈₉
2000 AZ ₈₉	14.7	0.15	20000226	340.96115	10.21879	134.94222	7.05837	0.0610289	2.3060239	48	2	1998–2000	0.78	M-v	4	Williams	39573	2000 AZ ₈₉
2000 AR ₉₀	14.3	0.15	20000226	118.44962	142.09566	208.80311	1.80265	0.2074504	2.4174899	24	2	1987–2000	0.57	M-v	5	Williams	38658	2000 AR ₉₀
2000 AS ₉₀	14.8	0.15	20000226	9.68048	213.75607	266.71303	3.22332	0.0893962	2.5446273	40	2	1998–2000	0.66	M-v	3	Williams	38659	2000 AS ₉₀
2000 AS ₉₀	14.6	0.15	20000226	114.30235	72.34766	287.58693	5.62052	0.1600968	2.2939091	48	2	1998–2000	0.62	M-v	4	Williams	38659	2000 AS ₉₀
2000 AJ ₉₁	15.1	0.15	19991228	260.80306	121.31313	123.96089	5.28681	0.2776190	2.4422082	10	1	8 days	0.45			Williams		2000 AJ ₉₁
2000 AK ₉₁	12.9	0.15	20000226	249.11128	292.16695	325.11925	7.11058	0.0717564	3.2169244	50	1	82 days	0.58	M-v	4	Williams	39573	2000 AK ₉₁
2000 AP ₉₁	14.7	0.15	20000226	268.65256	111.50601	131.94544	6.74718	0.1527198	2.2641537	45	2	1998–2000	0.58	M-v	4	Williams	38659	2000 AP ₉₁
2000 AU ₉₁	15.5	0.15	20000226	346.55916	235.11290	284.05627	3.41560	0.1925294	2.6007275	42	1	60 days	0.48	M-v	5	Williams	39573	2000 AU ₉₁
2000 AW ₉₁	13.3	0.15	20000226	293.08289	287.54004	296.52717	6.37122	0.1901078	3.1664501	43	1	62 days	0.57	M-v	5	Williams	39573	2000 AW ₉₁
2000 AZ ₉₁	14.3	0.15	20000117	91.78788	246.70553	129.23762	12.71576	0.1877878	2.6039938	36	1	59 days	0.53			Williams		2000 AZ ₉₁
2000 AE ₉₂	14.2	0.15	20000226	36.20685	195.32185	259.58763	6.24247	0.1897863	2.6583703	88	3	1981–2000	0.58	M-v	2	Williams	39573	2000 AE ₉₂
2000 AT ₉₂	14.9	0.15	20000226	316.26199	116.09589	88.08980	23.29817	0.2029987	2.3534295	40	1	109 days	0.54	M-v	4	Williams	39573	2000 AT ₉₂
2000 AH ₉₃	14.7	0.15	20000226	321.25385	91.35871	105.26324	24.62736	0.3254573	2.7148964	29	1	87 days	0.53	M-v	5	Williams		2000 AH ₉₃
2000 AJ ₉₃	14.9	0.15	19991228	20.68106	144.41641	300.30806	21.61965	0.1318084	2.7123203	35	1	50 days	0.68			Williams		2000 AJ ₉₃
2000 AN ₉₃	14.5	0.15	20000226	299.81535	99.34637	122.36886	23.89040	0.0532823	1.9393983	64	1	111 days	0.35	M-v	4	Williams	39573	2000 AN ₉₃
2000 AR ₉₃	15.1	0.15	20000226	223.18649	142.64380	134.25443	25.03204	0.0577308	1.9257185	32	1	88 days	0.41	M-v	4	Williams	39573	2000 AR ₉₃
2000 AX ₉₃	17.4	0.15	20000226	358.95203	234.18525	291.17454	23.35741	0.4796099	2.2091652	125	1	123 days	0.53	M-v	4	Marsden	39573	2000 AX ₉₃
2000 AY ₉₃	17.3	0.15	20000226	0.33108	232.98074	281.74031	11.37855	0.5279546	3.1946880	81	1	93 days	0.70	M-v	4	Williams	39573	2000 AY ₉₃
2000 AK ₉₄	12.7	0.15	20000226	195.18366	186.51576	95.48974	10.60850	0.0594147	3.0676157	41	3	1991–2000	0.55	M-v	3	Williams	38660	2000 AK ₉₄
2000 AY ₉₄	13.6	0.15	20000226	16.13460	316.47391	162.93800	0.78278	0.1221842	3.1782751	93	3	1983–2000	0.55	M-v	3	Williams	39573	2000 AY ₉₄
2000 AB ₉₅	15.1	0.15	20000226	340.16657	219.24937	306.28930	6.01641	0.0686945	2.3992984	44	2	1989–2000	0.59	M-v	4	Williams	39573	2000 AB ₉₅
2000 AC ₉₅	14.3	0.15	20000226	148.75632	30.66108	311.72992	6.67273	0.1888262	2.2311148	74	3	1978–2000	0.56	M-v	2	Williams	39573	2000 AC ₉₅
2000 AD ₉₅	13.1	0.15	20000226	2.05552	184.72704	314.75801	7.47595	0.0828455	3.0567196	73	1	114 days	0.41	M-v	3	Williams	39573	2000 AD ₉₅
2000 AM ₉₅	14.0	0.15	20000226	346.51905	40.04242	129.96373	9.95874	0.2607331	3.1524566	45	1	88 days	0.44	M-v	4	Williams	39573	2000 AM ₉₅
2000 AO ₉₅	14.3	0.15	20000226	146.13804	258.01972	96.50662	1.70380	0.0694624	2.1706992	77	3	1997–2000	0.54	M-v	3	Williams	39573	2000 AO ₉₅
2000 AP ₉₅	14.1	0.15	20000226	251.39723	137.31054	121.39354	3.73132	0.0436853	2.7050953	64	3	1996–2000	0.54	M-v	3	Williams	39573	2000 AP ₉₅
2000 AQ ₉₅	13.6	0.15	20000226	237.51248	140.55682	137.29977	13.65309	0.1016495	2.7061197	59	1	91 days	0.50	M-v	4	Williams	39573	2000 AQ ₉₅
2000 AR ₉₅	14.2	0.15	20000226	19.25725	157.71988	324.96711	6.99470	0.0916324	2.7330781	79	1	94 days	0.44	M-v	4	Williams	39573	2000 AR ₉₅
2000 AS ₉₅	12.7	0.15	20000226	92.39002	276.23591	125.65525	10.56504	0.0969107	3.0530585	78	3	1982–2000	0.59	M-v	2	Williams	39573	2000 AS ₉₅
2000 AW ₉₅	13.7	0.15	20000226	47.39562	87.96379	9.80876	1.66972	0.0177884	2.8715236	106	2	1998–2000	0.47	M-v	3	Williams	39573	2000 AW ₉₅
2000 AX ₉₅	13.4	0.15	20000226	101.97708	264.93972	128.55666	10.47143	0.1022299	2.9848836	57	2	1992–2000	0.56	M-v	4	Williams	39573	2000 AX ₉₅
2000 AZ ₉₅	14.6	0.15	20000226	70.27903	67.80028	335.11359	3.52474	0.2878642	2.5560769	47	1	96 days	0.58	M-v	4	Williams	39573	2000 AZ ₉₅
2000 AB ₉₆	13.8	0.15	20000226	151.32650	222.06100	127.50648	15.32146	0.1241359	2.6065983	42	1	68 days	0.60	M-v	4	Williams	39573	2000 AB ₉₆
2000 AF ₉₆	13.8	0.15	20000226	84.59491	272.03325	135.49572	9.85012	0.1603810	2.7955054	48	1	68 days	0.47	M-v	5	Williams	39573	2000 AF ₉₆
2000 AG ₉₆	14.2	0.15	20000226	205.40373	347.04555	311.30754	14.88917	0.0619408	2.7172475	37	1	64 days	0.47	M-v	5	Williams	39573	2000 AG ₉₆
2000 AK ₉₆	13.6	0.15	20000226	41.00809	313.50470	135.17513	17.96951	0.1977481	3.1010679	64	1	116 days	0.51	M-v	4	Williams	39573	2000 AK ₉₆
2000 AM ₉₆	13.6	0.15	20000226	347.09859	34.28846	131.60374	15.84322	0.0313678	2.6469445	64	1	98 days	0.42	M-v	3	Williams	39573	2000 AM ₉₆
2000 AN ₉₆	14.5	0.15	20000226	353.25748	26.51341	137.04919	13.60797	0.1476837	2.6431563	62	1	119 days	0.59	M-v	3	Williams	39573	2000 AN ₉₆
2000 AO ₉₆	13.1	0.15	20000226	155.30117	155.83185	333.59792	12.20306	0.1800956	2.6895691	82	3	1980–2000	0.56	M-v	3	Williams	39573	2000 AO ₉₆
2000 AP ₉₆	14.3	0.15	20000226	56.65119	322.88659	126.21672	7.82970	0.0778980	2.2847703	72	4	1991–2000	0.55	M-v	2	Williams	39573	2000 AP ₉₆
2000 AQ ₉₆	14.7	0.15	20000226	326.86227	103.64702	96.54781	3.98636	0.1724696	2.3125311	71	1	99 days	0.50	M-v	4	Williams	39574	2000 AQ ₉₆
2000 AR ₉₆	14.8	0.15	20000226	1.43856	175.64337	337.33819	5.36534	0.1503687	2.3487772	72	2	1998–2000	0.51	M-v	3	Williams	39574	2000 AR ₉₆
2000 AT ₉₆	14.5	0.15	20000226	21.69259	55.50906	72.12576	4.44311	0.1067612	2.1820465	49	1	119 days	0.52	M-v	4	Williams	39574	2000 AT ₉₆

2000 AW ₉₆	14.8	0.15	20000226	340.70059	54.94038	126.31880	4.05991	0.1225028	2.2723141	73	3	1997–2000	0.65	M-v	3	Williams	39574	2000 AW ₉₆
2000 AY ₉₆	13.2	0.15	20000226	359.68769	49.92355	107.46803	10.02952	0.0960192	2.7701758	63	1	138 days	0.49	M-v	3	Williams	39574	2000 AY ₉₆
2000 AZ ₉₆	13.3	0.15	20000226	29.69866	140.81508	335.32530	15.18724	0.1599122	3.0739882	64	1	92 days	0.36	M-v	4	Williams	39574	2000 AZ ₉₆
2000 AA ₉₇	14.7	0.15	20000226	10.80084	15.11854	130.02234	6.73463	0.0744656	2.3849185	80	1	120 days	0.48	M-v	3	Williams	39574	2000 AA ₉₇
2000 AB ₉₇	14.7	0.15	20000226	58.00054	354.48402	92.19404	1.47707	0.1235605	2.2572536	78	3	1997–2000	0.61	M-v	2	Williams	39574	2000 AB ₉₇
2000 AC ₉₇	13.2	0.15	20000226	82.37165	282.60243	130.95646	12.02899	0.1849702	2.6539637	77	2	1991–2000	0.49	M-v	3	Williams	39574	2000 AC ₉₇
2000 AE ₉₇	14.6	0.15	20000226	7.34580	112.79238	35.33196	4.47210	0.1529456	2.5168420	72	3	1996–2000	0.50	M-v	3	Williams	39344	2000 AE ₉₇
2000 AF ₉₇	13.0	0.15	20000226	321.51582	219.89296	345.67353	12.76993	0.1148034	2.6805252	83	1	97 days	0.49	M-v	4	Williams	39574	2000 AF ₉₇
2000 AG ₉₇	14.2	0.15	20000226	295.07035	114.17552	117.63530	9.26035	0.0727954	2.4066128	45	1	90 days	0.47	M-v	4	Williams	39574	2000 AG ₉₇
2000 AH ₉₇	14.3	0.15	20000226	44.61627	103.18642	326.76489	27.55654	0.3880092	2.6468142	49	1	83 days	0.59	M-v	4	Williams	39574	2000 AH ₉₇
2000 AJ ₉₇	14.3	0.15	20000226	332.12039	94.03057	102.59443	3.27016	0.1403814	2.4496070	63	2	1998–2000	0.46	M-v	3	Williams	39574	2000 AJ ₉₇
2000 AK ₉₇	11.7	0.15	20000226	234.17271	151.24500	141.94419	16.50523	0.0860349	3.1573399	63	1	121 days	0.55	M-v	4	Williams	39574	2000 AK ₉₇
2000 AM ₉₇	13.3	0.15	20000226	20.43017	142.56371	347.17811	6.50305	0.2035980	3.0837643	85	1	143 days	0.58	M-v	3	Williams	39574	2000 AM ₉₇
2000 AN ₉₇	13.6	0.15	20000226	325.94279	88.33672	120.02611	8.58588	0.1672371	2.3587151	65	1	140 days	0.54	M-v	4	Williams	39574	2000 AN ₉₇
2000 AO ₉₇	14.9	0.15	20000226	322.91157	176.65508	30.21275	5.06709	0.1323180	2.2059854	47	1	97 days	0.52	M-v	4	Williams	39574	2000 AO ₉₇
2000 AQ ₉₇	14.9	0.15	20000226	303.15781	249.08560	331.50910	19.05308	0.0541074	1.9210338	45	1	91 days	0.50	M-v	4	Williams	39574	2000 AQ ₉₇
2000 AS ₉₇	13.9	0.15	20000226	136.15659	280.00025	90.89062	7.74061	0.1846832	2.2819237	38	1	90 days	0.58	M-v	4	Williams	39574	2000 AS ₉₇
2000 AT ₉₇	13.9	0.15	20000226	318.24617	89.07648	126.35747	13.62153	0.1282526	2.5906520	44	1	119 days	0.53	M-v	4	Williams	39574	2000 AT ₉₇
2000 AU ₉₇	14.2	0.15	20000226	25.57589	142.41200	339.60387	12.56426	0.2143761	2.8015924	52	1	95 days	0.42	M-v	4	Williams	39574	2000 AU ₉₇
2000 AV ₉₇	13.5	0.15	20000226	82.91621	313.15858	108.84237	4.74559	0.1436444	2.2185345	101	2	1998–2000	0.53	M-v	3	Williams	39574	2000 AV ₉₇
2000 AW ₉₇	13.7	0.15	20000226	24.41487	146.08447	345.49202	11.65368	0.1128577	2.6013948	55	1	95 days	0.44	M-v	4	Williams	39574	2000 AW ₉₇
2000 AX ₉₇	15.1	0.15	20000226	124.53994	61.99738	331.41896	19.93959	0.0314760	1.9322847	46	1	91 days	0.60	M-v	4	Williams	39574	2000 AX ₉₇
2000 AY ₉₇	13.5	0.15	20000226	32.86521	120.59648	2.01763	8.94099	0.0996147	2.7548896	68	3	1993–2000	0.56	M-v	2	Williams	39574	2000 AY ₉₇
2000 AZ ₉₇	13.5	0.15	20000226	73.57774	342.64337	96.08635	5.66496	0.0892468	2.3000517	79	3	1994–2000	0.63	M-v	1	Williams	39574	2000 AZ ₉₇
2000 AB ₉₈	12.1	0.15	20000226	17.66095	21.62718	118.82102	13.74577	0.1150011	2.6621249	81	1	143 days	0.43	M-v	3	Williams	39574	2000 AB ₉₈
2000 AC ₉₈	13.5	0.15	20000226	281.97842	193.52957	71.12812	5.25888	0.2124162	2.2509717	77	4	1953–2000	0.55	M-v	1	Williams	39345	2000 AC ₉₈
2000 AD ₉₈	13.2	0.15	20000226	352.99027	90.58600	82.64053	5.91326	0.1110583	3.1680459	51	1	90 days	0.50	M-v	3	Williams	39574	2000 AD ₉₈
2000 AE ₉₈	14.7	0.15	20000226	45.51172	9.48398	87.30366	5.82927	0.2172935	2.5461916	29	1	84 days	0.55	M-v	5	Williams	39574	2000 AE ₉₈
2000 AF ₉₈	13.6	0.15	20000226	80.92432	83.03916	356.92064	9.12736	0.0244182	2.5585205	70	3	1996–2000	0.51	M-v	2	Williams	39574	2000 AF ₉₈
2000 AG ₉₈	12.8	0.15	20000226	162.86491	257.26818	98.63440	7.18508	0.1739738	2.3444592	46	1	91 days	0.39	M-v	4	Williams	39574	2000 AG ₉₈
2000 AH ₉₈	13.9	0.15	20000226	296.12339	219.11908	22.13354	7.35099	0.1153030	2.4708151	71	1	97 days	0.60	M-v	4	Williams	39574	2000 AH ₉₈
2000 AL ₉₈	13.8	0.15	20000226	49.79286	352.00268	113.60744	9.27617	0.1454914	2.4226851	46	1	154 days	0.59	M-v	4	Williams	39574	2000 AL ₉₈
2000 AM ₉₈	14.0	0.15	20000226	58.69635	2.28311	97.81318	8.01323	0.1019107	2.4462590	42	1	95 days	0.49	M-v	4	Williams		2000 AM ₉₈
2000 AN ₉₈	14.4	0.15	20000226	4.50811	33.74226	117.92505	7.60545	0.0533204	2.3618783	47	1	90 days	0.47	M-v	4	Williams	39574	2000 AN ₉₈
2000 AL ₉₉	13.2	0.15	20000226	65.43174	151.50677	188.80711	5.37007	0.1740910	3.1260600	72	3	1997–2000	0.61	M-v	3	Williams	38664	2000 AL ₉₉
2000 AN ₉₉	14.2	0.15	20000226	339.78760	8.06089	91.52474	6.91352	0.0724982	2.4177506	19	1	87 days	0.46	M-v	5	Williams		2000 AN ₉₉
2000 AO ₉₉	13.9	0.15	20000226	207.89081	120.03340	106.81275	6.11700	0.0855138	2.3048770	16	1	87 days	0.54	M-v	5	Williams		2000 AO ₉₉
2000 AS ₉₉	14.5	0.15	20000226	72.37788	251.45738	98.06086	7.10830	0.1422090	2.3328339	50	1	116 days	0.61	M-v	4	Williams		2000 AS ₉₉
2000 AZ ₉₉	13.9	0.15	20000226	143.53387	200.39339	89.54346	8.13209	0.0168840	2.4066385	16	1	82 days	2.04	M-v	7	Williams		2000 AZ ₉₉
2000 AC ₁₀₀	14.8	0.15	20000226	32.74686	228.78528	163.43426	4.67984	0.2447167	2.5772032	50	2	1993–2000	0.56	M-v	3	Williams	39345	2000 AC ₁₀₀
2000 AF ₁₀₀	14.2	0.15	20000226	298.74012	2.88277	137.58343	6.11858	0.0124868	2.3188911	16	1	82 days	0.55	M-v	6	Williams		2000 AF ₁₀₀
2000 AJ ₁₀₀	13.3	0.15	20000226	49.64317	251.04874	111.44993	6.55897	0.1959794	3.0860824	62	1	149 days	0.54	M-v	4	Williams	39574	2000 AJ ₁₀₀
2000 AN ₁₀₀	15.1	0.15	20000226	44.36023	301.01125	86.22864	6.90178	0.1981149	2.2972682	46	1	107 days	0.40	M-v	3	Williams	38876	2000 AN ₁₀₀
2000 AO ₁₀₀	11.8	0.15	20000226	38.77829	318.38574	68.26206	19.04775	0.1085107	3.0700184	69	2	1997–2000	0.49	M-v	3	Williams	39345	2000 AO ₁₀₀
2000 AB ₁₀₁	13.1	0.15	20000226	17.90354	318.02164	95.30139	14.15355	0.0601373	3.1289820	51	2	1995–2000	0.53	M-v	3	Williams	39345	2000 AB ₁₀₁
2000 AP ₁₀₁	15.2	0.15	20000226	84.16531	88.15613	233.38333	8.07423	0.2286206	2.3375072	74	1	96 days	0.48	M-v	4	Williams	39574	2000 AP ₁₀₁
2000 AX ₁₀₁	13.4	0.15	20000226	31.06017	326.93843	71.78245	16.01198	0.1400377	2.5870244	49	1	153 days	0.52	M-v	3	Williams		2000 AX ₁₀₁
2000 AO ₁₀₂	15.0	0.15	20000226	78.84193	213.27567	133.54748	6.46893	0.2222410	2.2521493	62	3	1997–2000	0.63	M-v	2	Williams	39345	2000 AO ₁₀₂
2000 AP ₁₀₂	14.5	0.15	20000226	9.50703	337.38174	99.84936	14.67340	0.1520490	2.6611553	42	1	94 days	0.46	M-v	3	Williams	38876	2000 AP ₁₀₂
2000 AQ ₁₀₃	14.9	0.15	20000226	56.45574	273.45698	116.68458	7.56036	0.1223395	2.2817052	37	1	115 days	0.51	M-v	4	Williams	38876	2000 AQ ₁₀₃
2000 AF ₁₀₄	13.5	0.15	20000226	288.38860	298.51439	239.59684	16.64556	0.1109769	2.8128079	52	2	1998–2000	0.57	M-v	3	Williams	39345	2000 AF ₁₀₄
2000 AH ₁₀₄	15.0	0.15	20000226	50.10214	171.30133	212.96501	7.18577	0.2481654	2.6813170	32	1	91 days	0.44	M-v	4	Williams	38876	2000 AH ₁₀₄
2000 AM ₁₀₅	13.7	0.15	20000226	60.62561	278.79355	112.65461	15.74193	0.1148079	2.6574682	37	1	146 days	0.42	M-v	4	Williams	39574	2000 AM ₁₀₅

2000 AM ₁₀₆	13.8	0.15	20000226	338.07900	243.19824	249.92711	13.76387	0.0372993	2.5676037	48	2	1998–2000	0.65	M-v	3	Williams	38876	2000 AM ₁₀₆
2000 AB ₁₀₇	12.8	0.15	20000226	335.06143	12.30301	120.09251	16.53964	0.0375443	3.1859573	48	4	1989–2000	0.51	M-v	1	Williams	38665	2000 AB ₁₀₇
2000 AN ₁₀₇	12.8	0.15	20000226	278.98342	62.63318	131.82720	12.19815	0.0418983	3.0488633	51	1	151 days	0.47	M-v	4	Williams	39574	2000 AN ₁₀₇
2000 AP ₁₀₇	13.1	0.15	20000226	39.72304	302.01880	123.43288	14.16056	0.0733534	2.9225150	37	1	146 days	0.44	M-v	4	Williams	39574	2000 AP ₁₀₇
2000 AS ₁₁₀	14.6	0.15	20000226	298.29292	20.73393	175.21882	5.11850	0.1419431	2.4247335	28	3	1994–2000	0.79	M-v	4	Williams	38665	2000 AS ₁₁₀
2000 AJ ₁₁₁	13.4	0.15	20000226	346.29819	327.10604	169.52619	6.35717	0.1275182	3.1224973	45	3	1976–2000	0.65	M-v	3	Williams	38666	2000 AJ ₁₁₁
2000 AX ₁₁₁	14.5	0.15	20000226	345.35670	267.81882	234.00602	5.55311	0.0833030	2.3210084	62	2	1998–2000	0.68	M-v	3	Williams	39574	2000 AX ₁₁₁
2000 AJ ₁₁₂	15.3	0.15	20000226	18.75654	323.78964	137.60694	3.96899	0.1480316	2.4235125	30	1	108 days	0.55	M-v	4	Williams	39574	2000 AJ ₁₁₂
2000 AT ₁₁₂	12.6	0.15	20000226	82.12485	246.15739	136.72406	10.80741	0.1222803	3.0248178	52	3	1995–2000	0.60	M-v	2	Williams	38666	2000 AT ₁₁₂
2000 AU ₁₁₂	14.8	0.15	20000226	4.56126	213.61156	266.37825	12.37611	0.2057465	2.6232801	34	1	136 days	0.47	M-v	3	Williams	39574	2000 AU ₁₁₂
2000 AB ₁₁₃	12.0	0.15	20000226	153.37921	179.28345	141.10997	11.99321	0.1040315	2.9922485	85	4	1985–2000	0.77	M-v	2	Williams	39574	2000 AB ₁₁₃
2000 AC ₁₁₃	15.3	0.15	20000226	9.16024	286.37722	191.16185	4.46245	0.1341293	2.1890846	31	1	109 days	0.53	M-v	4	Williams	39574	2000 AC ₁₁₃
2000 AR ₁₁₃	13.7	0.15	20000226	344.97569	18.95965	126.03084	15.01253	0.1187797	2.5379227	38	1	175 days	0.45	M-v	3	Williams	39574	2000 AR ₁₁₃
2000 AT ₁₁₃	14.0	0.15	20000226	14.71587	200.41954	266.56894	12.69240	0.0934748	2.6806800	42	2	1998–2000	0.71	M-v	4	Williams	39346	2000 AT ₁₁₃
2000 AW ₁₁₃	14.3	0.15	20000226	9.52210	219.85753	254.67197	8.70245	0.0386372	2.5461989	43	2	1998–2000	0.68	M-v	3	Williams	39346	2000 AW ₁₁₃
2000 AC ₁₁₄	13.7	0.15	20000226	44.96084	240.16258	177.47947	5.73820	0.2250566	2.9247214	55	2	1998–2000	0.55	M-v	3	Williams	38667	2000 AC ₁₁₄
2000 AM ₁₁₄	15.1	0.15	20000226	18.34267	226.48345	238.91179	4.52574	0.1268867	2.3290273	41	1	109 days	0.47	M-v	3	Williams	39574	2000 AM ₁₁₄
2000 AK ₁₁₅	14.5	0.15	20000226	340.91427	333.17011	178.23134	4.87637	0.0948085	2.4001665	42	3	1993–2000	0.47	M-v	3	Williams	38668	2000 AK ₁₁₅
2000 AP ₁₁₅	14.3	0.15	20000226	347.52829	258.74896	246.73827	6.73169	0.1004391	2.2457457	61	3	1994–2000	0.63	M-v	3	Williams	39346	2000 AP ₁₁₅
2000 AJ ₁₁₆	13.9	0.15	20000226	256.24856	350.33206	256.95476	6.65325	0.1584944	2.3730998	49	2	1998–2000	0.65	M-v	4	Williams	38668	2000 AJ ₁₁₆
2000 AX ₁₁₆	14.5	0.15	20000226	57.19245	244.19937	175.41380	5.46968	0.1343273	2.2536961	58	3	1995–2000	0.64	M-v	3	Williams	39575	2000 AX ₁₁₆
2000 AA ₁₁₇	13.1	0.15	20000226	32.93239	292.46609	142.63622	11.07536	0.2737344	2.7588983	87	2	1998–2000	0.58	M-v	3	Williams	39575	2000 AA ₁₁₇
2000 AF ₁₁₇	14.2	0.15	20000226	113.11802	176.77253	178.81050	5.84431	0.1946292	2.3309358	40	3	1995–2000	0.59	M-v	3	Williams	39575	2000 AF ₁₁₇
2000 AK ₁₁₇	14.0	0.15	20000226	48.93612	219.74220	213.88992	4.25356	0.0682878	2.6667673	37	2	1998–2000	0.56	M-v	3	Williams	38669	2000 AK ₁₁₇
2000 AP ₁₁₇	14.8	0.15	20000226	82.86122	132.43575	257.30156	5.68568	0.1465688	2.5697423	37	3	1978–2000	0.51	M-v	2	Williams	38669	2000 AP ₁₁₇
2000 AY ₁₁₇	12.3	0.15	20000226	249.66753	114.82629	137.48518	14.60291	0.1536027	2.5876588	55	1	177 days	0.44	M-v	4	Williams	39575	2000 AY ₁₁₇
2000 AD ₁₁₈	12.7	0.15	20000226	260.28054	344.36492	247.13657	8.30045	0.0453280	3.1647449	62	2	1998–2000	0.60	M-v	3	Williams	38877	2000 AD ₁₁₈
2000 AL ₁₁₈	14.2	0.15	20000226	236.36085	45.36776	214.97439	6.01085	0.0793776	2.5212238	51	3	1993–2000	0.69	M-v	3	Williams	38670	2000 AL ₁₁₈
2000 AR ₁₁₈	13.0	0.15	20000226	229.99687	133.00578	133.20869	17.28580	0.1247310	3.1293061	30	1	81 days	0.54	M-v	4	Williams	39575	2000 AR ₁₁₈
2000 AT ₁₁₈	14.5	0.15	20000226	353.23249	342.75946	159.56785	5.08387	0.1306160	2.4578407	35	3	1994–2000	0.60	M-v	4	Williams	39575	2000 AT ₁₁₈
2000 AB ₁₁₉	14.7	0.15	20000226	345.91054	353.82687	157.10993	4.28937	0.0944293	2.2372853	36	4	1987–2000	0.69	M-v	2	Williams	38670	2000 AB ₁₁₉
2000 AD ₁₁₉	14.5	0.15	20000226	267.87266	53.40009	185.63669	3.13902	0.1490887	2.5459453	39	2	1998–2000	0.55	M-v	4	Williams	38671	2000 AD ₁₁₉
2000 AN ₁₁₉	14.7	0.15	20000226	61.68222	245.03681	173.17218	5.88983	0.1180954	2.4056752	30	3	1993–2000	0.61	M-v	3	Williams	39575	2000 AN ₁₁₉
2000 AR ₁₁₉	15.2	0.15	20000226	11.39203	221.05711	258.27329	7.76170	0.2285475	2.4362453	49	1	164 days	0.40	M-v	3	Williams	39575	2000 AR ₁₁₉
2000 AX ₁₁₉	14.5	0.15	20000226	265.90115	103.02318	141.71284	12.35354	0.1795697	2.3601116	40	1	81 days	0.55	M-v	4	Williams	39575	2000 AX ₁₁₉
2000 AG ₁₂₀	13.2	0.15	20000226	199.32307	154.36896	139.43334	10.32525	0.1154390	3.0563339	37	3	1981–2000	0.71	M-v	3	Williams	39347	2000 AG ₁₂₀
2000 AR ₁₂₀	12.7	0.15	20000226	66.60809	158.95869	263.06796	8.68259	0.0316237	2.9248843	67	1	180 days	0.60	M-v	4	Williams	39575	2000 AR ₁₂₀
2000 AS ₁₂₀	14.9	0.15	20000226	24.23962	262.20296	201.48538	4.18166	0.1395925	2.4373196	37	1	109 days	0.56	M-v	4	Williams	39575	2000 AS ₁₂₀
2000 AV ₁₂₀	13.3	0.15	20000226	263.63190	350.21561	244.76749	6.12454	0.0612339	3.1478362	45	3	1989–2000	0.63	M-v	3	Williams	39575	2000 AV ₁₂₀
2000 AZ ₁₂₀	13.3	0.15	20000226	259.49062	104.60205	143.39691	15.89623	0.1473449	2.6615419	40	1	91 days	0.53	M-v	4	Williams	39575	2000 AZ ₁₂₀
2000 AK ₁₂₁	13.4	0.15	20000226	152.24905	193.68419	137.16981	9.91595	0.1968425	2.5502952	47	4	1980–2000	0.51	M-v	2	Williams	39575	2000 AK ₁₂₁
2000 AL ₁₂₁	14.3	0.15	20000226	89.76044	162.84117	226.67736	2.17324	0.1394013	2.2706697	50	4	1978–2000	0.66	M-v	1	Williams	39575	2000 AL ₁₂₁
2000 AN ₁₂₂	12.5	0.15	20000226	259.12559	56.73833	179.18551	5.17205	0.1124278	3.1060300	36	1	120 days	0.53	M-v	4	Williams		2000 AN ₁₂₂
2000 AE ₁₂₃	13.9	0.15	20000226	174.28371	171.61543	142.51150	10.60446	0.0424094	3.0569819	27	2	1995–2000	0.43	M-v	5	Williams	38673	2000 AE ₁₂₃
2000 AQ ₁₂₃	14.5	0.15	20000226	46.20862	220.05809	199.02631	3.99961	0.2984677	2.6077365	74	4	1971–2000	0.56	M-v	1	Williams	39347	2000 AQ ₁₂₃
2000 AV ₁₂₃	13.5	0.15	20000226	245.19083	92.16426	160.84445	10.55068	0.0514745	2.9716397	48	3	1990–2000	0.52	M-v	3	Williams	39575	2000 AV ₁₂₃
2000 AW ₁₂₃	13.4	0.15	20000226	283.76867	77.13842	148.82609	13.47543	0.1343053	2.5450387	56	2	1988–2000	0.53	M-v	4	Williams	39575	2000 AW ₁₂₃
2000 AX ₁₂₃	15.2	0.15	20000226	318.96500	7.48710	189.41235	5.66579	0.1905777	2.3230532	33	1	89 days	0.41	M-v	4	Williams	39575	2000 AX ₁₂₃
2000 AZ ₁₂₃	14.4	0.15	20000226	21.22968	193.09852	276.49471	8.07043	0.1069355	2.7386184	43	1	89 days	0.56	M-v	4	Williams	39575	2000 AZ ₁₂₃
2000 AB ₁₂₄	16.3	0.15	20000117	39.33290	265.34656	169.17658	3.66714	0.1241668	2.2378019	28	1	58 days	0.69			Williams		2000 AB ₁₂₄
2000 AD ₁₂₄	14.2	0.15	20000226	353.51734	19.81927	129.72991	18.80931	0.2823777	3.1109771	44	1	110 days	0.43	M-v	3	Williams		2000 AD ₁₂₄
2000 AE ₁₂₄	13.5	0.15	20000226	79.49071	259.66704	140.41458	9.88712	0.1303768	2.6592975	105	3	1997–2000	0.54	M-v	2	Williams	39575	2000 AE ₁₂₄
2000 AF ₁₂₄	13.6	0.15	20000226	98.42126	96.35809	286.49943	9.54427	0.1195668	2.9766615	36	1	60 days	0.58	M-v	5	Williams	39575	2000 AF ₁₂₄

2000 AG ₁₂₄	14.6	0.15	20000117	358.07188	354.32807	133.12238	8.91396	0.1618884	2.8035191	36	1	42 days	0.48		Williams		2000 AG ₁₂₄
2000 AH ₁₂₄	15.7	0.15	20000226	9.31492	342.16078	144.88278	4.25237	0.0609912	2.2126455	37	2	1994–2000	0.45	M-v 4	Williams	38675	2000 AH ₁₂₄
2000 AM ₁₂₄	15.6	0.15	20000226	26.01396	195.63215	273.05078	5.14798	0.0692747	2.2667310	25	1	60 days	0.49	M-v 5	Williams	39575	2000 AM ₁₂₄
2000 AO ₁₂₄	14.7	0.15	20000226	34.05953	298.69935	151.09735	4.12311	0.1852494	2.6203794	43	2	1977–2000	0.50	M-v 4	Williams	39575	2000 AO ₁₂₄
2000 AP ₁₂₄	15.1	0.15	20000226	76.37517	141.30555	257.76410	2.63227	0.1889144	2.3186209	42	5	1981–2000	0.59	M-v 2	Williams	39575	2000 AP ₁₂₄
2000 AQ ₁₂₄	15.3	0.15	20000226	99.52723	204.55411	172.43779	3.26392	0.1854977	2.3134534	35	3	1995–2000	0.55	M-v 4	Williams	39575	2000 AQ ₁₂₄
2000 AS ₁₂₄	15.0	0.15	20000226	314.70246	281.24639	283.93014	8.42286	0.2133719	2.3505287	48	1	89 days	0.48	M-v 4	Williams	39575	2000 AS ₁₂₄
2000 AW ₁₂₄	13.0	0.15	20000226	280.21976	84.83907	143.90811	14.46105	0.1148488	2.5974166	83	1	167 days	0.42	M-v 4	Williams	39575	2000 AW ₁₂₄
2000 AX ₁₂₄	13.5	0.15	20000226	25.93956	202.49811	263.73217	7.49131	0.0958513	2.7933481	64	1	165 days	0.58	M-v 3	Williams	39575	2000 AX ₁₂₄
2000 AY ₁₂₄	13.3	0.15	20000226	163.63673	172.63090	156.19832	10.14704	0.0946235	2.9771208	54	3	1992–2000	0.68	M-v 3	Williams	39575	2000 AY ₁₂₄
2000 AB ₁₂₅	14.1	0.15	20000226	67.47585	207.39856	216.42255	5.34993	0.0510670	2.8581574	33	2	1998–2000	0.63	M-v 4	Williams	39576	2000 AB ₁₂₅
2000 AJ ₁₂₅	12.5	0.15	20000226	68.85043	264.69878	154.87675	9.03164	0.0620350	3.1521443	65	1	167 days	0.43	M-v 4	Williams	39576	2000 AJ ₁₂₅
2000 AK ₁₂₅	15.6	0.15	20000117	34.83785	277.35164	141.02900	8.28361	0.3467637	2.9085555	63	1	37 days	0.42		Williams		2000 AK ₁₂₅
2000 AL ₁₂₅	14.8	0.15	20000226	38.95195	149.62586	296.69719	12.26571	0.1415059	2.7749288	45	2	1998–2000	0.69	M-v 3	Williams	39576	2000 AL ₁₂₅
2000 AN ₁₂₅	14.1	0.15	20000226	269.21852	102.94506	134.15111	10.04352	0.0931664	2.7486392	36	1	81 days	0.52	M-v 5	Williams		2000 AN ₁₂₅
2000 AO ₁₂₅	13.5	0.15	20000226	243.31055	322.34531	294.94955	9.16117	0.0516648	3.0564176	33	1	60 days	0.59	M-v 5	Williams	39576	2000 AO ₁₂₅
2000 AP ₁₂₅	15.0	0.15	20000226	153.66023	190.03582	148.39736	3.85573	0.0847590	2.3734763	40	2	1998–2000	0.66	M-v 4	Williams	39576	2000 AP ₁₂₅
2000 AQ ₁₂₅	14.5	0.15	20000226	235.95730	136.27494	135.71059	7.17158	0.1393051	2.2825871	37	2	1998–2000	0.46	M-v 4	Williams	39576	2000 AQ ₁₂₅
2000 AS ₁₂₅	14.8	0.15	20000226	104.36685	92.40253	283.69660	3.78208	0.1542761	2.3254835	40	2	1991–2000	0.60	M-v 4	Williams	39576	2000 AS ₁₂₅
2000 AU ₁₂₅	14.2	0.15	20000226	74.67572	271.96655	145.15599	4.52731	0.0515331	2.3554787	74	2	1998–2000	0.56	M-v 3	Williams	39576	2000 AU ₁₂₅
2000 AW ₁₂₅	13.2	0.15	20000226	147.24023	207.16459	139.37392	8.55427	0.0389794	2.7148797	89	2	1998–2000	0.50	M-v 3	Williams	39576	2000 AW ₁₂₅
2000 AY ₁₂₅	14.4	0.15	20000226	90.90954	99.06688	292.77519	5.74753	0.1302338	2.3885236	65	1	111 days	0.57	M-v 4	Williams	39576	2000 AY ₁₂₅
2000 AZ ₁₂₅	15.4	0.15	20000226	99.60289	223.53129	156.10278	2.41259	0.1711783	2.2032335	56	1	94 days	0.50	M-v 4	Williams	39576	2000 AZ ₁₂₅
2000 AA ₁₂₆	14.4	0.15	20000226	56.16933	225.60178	210.16909	2.78075	0.0610161	2.6601933	73	3	1981–2000	0.59	M-v 3	Williams	39576	2000 AA ₁₂₆
2000 AD ₁₂₆	15.0	0.15	20000226	77.55374	258.77407	149.13899	6.82980	0.1141188	2.3039864	34	1	60 days	0.58	M-v 5	Williams	39576	2000 AD ₁₂₆
2000 AL ₁₂₆	14.5	0.15	20000226	107.50056	122.45171	256.03213	5.48374	0.1213150	2.3247800	43	4	1994–2000	0.56	M-v 1	Williams	39576	2000 AL ₁₂₆
2000 AM ₁₂₆	14.9	0.15	20000226	314.86541	324.88252	228.84692	3.66016	0.0907646	2.3384709	58	1	89 days	0.43	M-v 4	Williams	39576	2000 AM ₁₂₆
2000 AP ₁₂₆	12.4	0.15	20000226	198.84485	1.91830	297.49049	11.61321	0.0323118	3.1361589	77	4	1931–2000	0.60	M-v 2	Williams	39576	2000 AP ₁₂₆
2000 AQ ₁₂₆	14.5	0.15	20000226	108.82448	95.55882	276.48660	3.61742	0.1669165	2.3438753	56	2	1998–2000	0.51	M-v 3	Williams	39576	2000 AQ ₁₂₆
2000 AT ₁₂₆	13.5	0.15	20000226	55.06605	144.35802	291.97187	8.98961	0.0698880	2.9676958	59	1	116 days	0.54	M-v 4	Williams	39576	2000 AT ₁₂₆
2000 AV ₁₂₆	14.2	0.15	20000226	249.51493	124.29179	141.92573	6.04477	0.1761684	2.3323276	86	2	1997–2000	0.58	M-v 4	Williams	39576	2000 AV ₁₂₆
2000 AW ₁₂₆	12.8	0.15	20000226	189.07937	10.99233	300.40555	12.91881	0.1937551	2.6840364	38	1	87 days	0.39	M-v 4	Williams	39576	2000 AW ₁₂₆
2000 AZ ₁₂₆	12.6	0.15	20000226	153.67591	39.97956	297.15324	8.10965	0.1664769	2.8033972	73	3	1993–2000	0.57	M-v 3	Williams	39576	2000 AZ ₁₂₆
2000 AB ₁₂₇	13.2	0.15	20000226	348.14503	206.65111	305.90671	9.66085	0.0503234	2.9886544	69	3	1990–2000	0.65	M-v 3	Williams	39576	2000 AB ₁₂₇
2000 AC ₁₂₇	14.2	0.15	20000226	329.51812	39.77437	137.78721	12.75117	0.0976066	2.6432013	69	1	110 days	0.42	M-v 4	Williams	39576	2000 AC ₁₂₇
2000 AD ₁₂₇	12.5	0.15	20000226	147.74260	51.94620	293.35806	12.40519	0.1043676	3.0630445	60	4	1986–2000	0.55	M-v 1	Williams	39576	2000 AD ₁₂₇
2000 AJ ₁₂₇	15.9	0.15	20000226	355.09015	235.12303	274.42906	7.44891	0.1018694	2.2467890	34	1	91 days	0.57	M-v 4	Williams	39576	2000 AJ ₁₂₇
2000 AM ₁₂₇	13.7	0.15	20000226	274.30350	106.81791	140.14973	11.52481	0.1848527	2.4111405	77	4	1990–2000	0.44	M-v 2	Williams	39576	2000 AM ₁₂₇
2000 AO ₁₂₇	14.1	0.15	20000226	315.58753	57.81751	145.03195	10.08933	0.1755228	2.6644339	63	1	92 days	0.45	M-v 4	Williams	39576	2000 AO ₁₂₇
2000 AQ ₁₂₇	13.0	0.15	20000226	250.72275	337.86523	290.98459	3.55703	0.1267990	2.6656795	58	4	1949–2000	0.72	M-v 2	Williams	39576	2000 AQ ₁₂₇
2000 AR ₁₂₇	14.2	0.15	20000226	225.98142	87.35352	197.67464	1.96674	0.1541303	2.3700137	73	4	1976–2000	0.59	M-v 1	Williams	39576	2000 AR ₁₂₇
2000 AS ₁₂₇	14.9	0.15	20000226	5.78178	353.64865	141.82233	6.57257	0.0686948	2.4814855	57	2	1998–2000	0.51	M-v 3	Williams	39576	2000 AS ₁₂₇
2000 AT ₁₂₇	13.4	0.15	20000226	26.26111	284.66042	185.04650	1.03685	0.0862362	3.2424174	82	3	1977–2000	0.65	M-v 3	Williams	39576	2000 AT ₁₂₇
2000 AU ₁₂₇	15.4	0.15	20000226	110.84035	231.37651	141.42257	2.78480	0.1728716	2.2368935	57	2	1995–2000	0.61	M-v 5	Williams	38681	2000 AU ₁₂₇
2000 AW ₁₂₇	15.5	0.15	20000226	337.58615	250.18547	304.29707	14.47377	0.3662736	2.7060748	43	1	90 days	0.45	M-v 4	Williams	39576	2000 AW ₁₂₇
2000 AX ₁₂₇	15.3	0.15	20000226	2.75853	357.11719	143.08421	6.51325	0.1212498	2.3501473	61	1	89 days	0.67	M-v 4	Williams	39576	2000 AX ₁₂₇
2000 AY ₁₂₇	13.9	0.15	20000226	44.86048	293.75461	137.54226	10.06512	0.2625170	2.7236439	90	3	1982–2000	0.48	M-v 1	Williams	39576	2000 AY ₁₂₇
2000 AZ ₁₂₇	13.1	0.15	20000226	186.80747	9.35321	306.73404	19.65682	0.1372724	3.1533050	57	1	63 days	0.47	M-v 5	Williams	39576	2000 AZ ₁₂₇
2000 AA ₁₂₈	12.9	0.15	20000226	242.40323	121.85229	143.42816	17.47512	0.0705665	2.8413356	82	4	1969–2000	0.38	M-v 1	Williams	39576	2000 AA ₁₂₈
2000 AE ₁₂₈	14.0	0.15	20000226	69.23181	256.21238	159.26216	5.35096	0.1574093	2.7160075	72	3	1994–2000	0.61	M-v 2	Williams	39576	2000 AE ₁₂₈
2000 AG ₁₂₈	14.6	0.15	20000226	33.22033	159.61216	306.17954	21.05779	0.0782152	2.5474279	24	1	63 days	0.46	M-v 4	Williams		2000 AG ₁₂₈
2000 AH ₁₂₈	12.8	0.15	20000226	186.42389	169.23078	148.15965	15.22483	0.1216524	2.6001944	66	1	139 days	0.49	M-v 3	Williams	39576	2000 AH ₁₂₈
2000 AJ ₁₂₈	14.4	0.15	20000226	64.28129	132.20602	290.55667	9.79249	0.1563506	2.5939051	59	2	1998–2000	0.50	M-v 3	Williams	39577	2000 AJ ₁₂₈

2000 AK ₁₂₈	13.8	0.15	20000226	269.61948	89.48083	163.08269	7.23909	0.1648894	2.6348180	45	1	81 days	0.60	M-v	4	Williams	39577	2000 AK ₁₂₈
2000 AM ₁₂₈	13.1	0.15	20000226	119.83323	79.40240	301.47318	14.84301	0.0414296	3.1191428	48	1	143 days	0.65	M-v	4	Williams	39577	2000 AM ₁₂₈
2000 AO ₁₂₈	14.1	0.15	20000226	132.21505	169.59312	196.26817	4.08121	0.0840908	2.7835386	52	3	1993–2000	0.77	M-v	4	Williams	39577	2000 AO ₁₂₈
2000 AP ₁₂₈	13.2	0.15	20000226	232.30836	332.77543	305.59672	16.16377	0.0623629	3.2290651	29	1	61 days	0.58	M-v	5	Williams	39577	2000 AP ₁₂₈
2000 AR ₁₂₈	12.6	0.15	20000226	262.09008	318.38334	311.78474	17.59333	0.2503036	3.0111666	45	4	1984–2000	0.64	M-v	2	Williams	39577	2000 AR ₁₂₈
2000 AS ₁₂₈	14.0	0.15	20000226	90.29494	110.81020	285.82540	2.19894	0.1705045	2.2327260	89	4	1955–2000	0.59	M-v	1	Williams	39577	2000 AS ₁₂₈
2000 AT ₁₂₈	13.8	0.15	20000226	317.25142	256.87729	305.04996	9.31399	0.1314541	2.7198461	29	1	82 days	0.49	M-v	4	Williams	39577	2000 AT ₁₂₈
2000 AU ₁₂₈	13.0	0.15	20000226	273.82398	105.82028	142.30768	22.31589	0.1357554	3.1439732	51	1	60 days	0.50	M-v	5	Williams	39577	2000 AU ₁₂₈
2000 AW ₁₂₈	12.8	0.15	20000226	224.29996	330.81356	316.83574	11.06363	0.0119226	2.9443699	69	1	139 days	0.50	M-v	4	Williams	39577	2000 AW ₁₂₈
2000 AA ₁₂₉	14.4	0.15	20000226	335.17613	239.87524	281.68483	8.04534	0.0265096	2.9829521	39	3	1997–2000	0.59	M-v	3	Williams	39577	2000 AA ₁₂₉
2000 AD ₁₂₉	14.9	0.15	20000226	294.21732	16.04323	207.59653	1.70745	0.1734850	2.3952178	40	2	1999–2000	0.54	M-v	4	Williams	39577	2000 AD ₁₂₉
2000 AF ₁₂₉	15.7	0.15	20000117	92.41053	238.89233	135.57728	5.43298	0.1751688	2.2230597	36	1	59 days	0.50			Williams		2000 AF ₁₂₉
2000 AH ₁₂₉	14.7	0.15	20000226	103.85578	114.64671	268.43820	7.36430	0.0983795	2.3886316	44	2	1998–2000	0.62	M-v	3	Williams	39577	2000 AH ₁₂₉
2000 AP ₁₂₉	13.6	0.15	20000226	266.65478	98.96901	138.19321	10.79893	0.0571462	3.0667349	42	1	67 days	0.52	M-v	4	Williams	39577	2000 AP ₁₂₉
2000 AS ₁₂₉	15.5	0.15	20000226	31.97554	306.50132	140.39221	7.41679	0.2747663	2.7304247	59	1	95 days	0.47	M-v	4	Williams	39577	2000 AS ₁₂₉
2000 AU ₁₂₉	14.8	0.15	20000226	10.06792	354.21629	134.52311	14.50143	0.1112746	2.5278630	56	1	119 days	0.56	M-v	3	Williams	39577	2000 AU ₁₂₉
2000 AV ₁₂₉	15.2	0.15	20000226	253.29836	8.07843	255.27701	4.87778	0.1611285	2.2179474	55	3	1991–2000	0.55	M-v	2	Williams	39577	2000 AV ₁₂₉
2000 AW ₁₂₉	15.0	0.15	20000226	109.59359	215.86176	158.62426	5.04014	0.1640276	2.2437029	59	2	1998–2000	0.61	M-v	4	Williams	39577	2000 AW ₁₂₉
2000 AY ₁₂₉	14.5	0.15	20000226	138.50909	199.50520	162.36936	3.28277	0.0245741	2.6957044	47	2	1998–2000	0.77	M-v	4	Williams	39577	2000 AY ₁₂₉
2000 AC ₁₃₀	14.2	0.15	20000226	264.35853	327.95129	294.90890	7.72938	0.2299767	2.4205430	63	3	1997–2000	0.72	M-v	3	Williams	39577	2000 AC ₁₃₀
2000 AD ₁₃₀	15.0	0.15	20000226	305.00889	273.17623	305.72039	7.35656	0.1923487	2.3742154	62	4	1978–2000	0.53	M-v	1	Williams	39577	2000 AD ₁₃₀
2000 AM ₁₃₀	15.5	0.15	20000226	36.69077	325.71856	135.32130	7.45921	0.1306726	2.3014620	47	1	60 days	0.38	M-v	5	Williams	39577	2000 AM ₁₃₀
2000 AN ₁₃₀	14.6	0.15	20000226	325.12429	298.38539	239.41961	4.04651	0.0983105	3.1024786	25	2	1998–2000	0.42	M-v	5	Williams	38685	2000 AN ₁₃₀
2000 AC ₁₃₁	14.4	0.15	20000226	60.39034	263.66839	147.65891	2.29831	0.1849842	3.1132219	41	2	1998–2000	0.84	M-v	4	Williams	38685	2000 AC ₁₃₁
2000 AD ₁₃₁	15.2	0.15	20000226	32.16425	155.17045	297.74071	1.38680	0.1805263	2.6372388	48	1	88 days	0.62	M-v	4	Williams	39577	2000 AD ₁₃₁
2000 AG ₁₃₁	14.6	0.15	20000226	10.57343	188.06228	308.02872	12.49611	0.1182417	2.5480476	36	1	81 days	0.52	M-v	4	Williams	39577	2000 AG ₁₃₁
2000 AN ₁₃₂	15.0	0.15	20000226	317.86353	147.20195	35.82061	3.94835	0.0875507	2.1733169	50	2	1998–2000	0.59	M-v	4	Williams	38685	2000 AN ₁₃₂
2000 AB ₁₃₃	14.1	0.15	20000226	23.10415	141.90944	322.34553	16.41209	0.0978134	2.9390791	24	1	83 days	0.61	M-v	4	Williams		2000 AB ₁₃₃
2000 AJ ₁₃₃	14.2	0.15	20000226	7.22072	80.08316	74.30796	17.17508	0.2268486	2.6194094	34	2	1994–2000	0.49	M-v	3	Williams	39577	2000 AJ ₁₃₃
2000 AK ₁₃₃	14.3	0.15	20000226	36.38700	89.00754	11.31189	26.45287	0.2880991	2.6799143	33	1	96 days	0.44	M-v	4	Williams		2000 AK ₁₃₃
2000 AL ₁₃₃	14.9	0.15	20000226	1.06948	148.41361	284.42364	5.42429	0.2121134	2.7726955	15	1	71 days	0.57	M-v	6	Williams		2000 AL ₁₃₃
2000 AS ₁₃₃	14.3	0.15	20000226	76.62448	10.42830	7.03479	3.68675	0.1512643	2.7914356	23	3	1996–2000	0.48	M-v	3	Williams	38686	2000 AS ₁₃₃
2000 AV ₁₃₃	15.2	0.15	20000226	61.06485	85.85331	322.30214	3.68384	0.0781272	2.2815548	36	2	1995–2000	0.68	M-v	4	Williams	38686	2000 AV ₁₃₃
2000 AW ₁₃₄	13.8	0.15	20000226	77.66745	313.54099	75.53969	9.22540	0.0886358	2.7188035	40	1	112 days	0.32	M-v	4	Williams	39577	2000 AW ₁₃₄
2000 AS ₁₃₅	16.1	0.15	20000226	6.25120	165.82079	310.15930	2.91132	0.1411036	2.5886145	17	2	1992–2000	0.53	M-v	5	Williams	38686	2000 AS ₁₃₅
2000 AY ₁₃₅	14.1	0.15	20000117	311.27805	146.04551	48.63142	2.03694	0.2659203	3.2644716	39	1	29 days	0.50			Williams		2000 AY ₁₃₅
2000 AQ ₁₃₆	14.3	0.15	20000226	142.21598	274.89893	88.91670	7.76160	0.1013884	2.3690935	34	1	68 days	0.49	M-v	4	Williams		2000 AQ ₁₃₆
2000 AT ₁₃₆	14.5	0.15	20000226	309.64078	79.53485	140.93391	7.00417	0.0906586	2.3264177	55	1	120 days	0.49	M-v	4	Williams	39577	2000 AT ₁₃₆
2000 AU ₁₃₆	13.6	0.15	20000226	331.15145	49.72277	147.99967	13.36889	0.1095647	2.6622576	48	1	91 days	0.39	M-v	3	Williams	39577	2000 AU ₁₃₆
2000 AV ₁₃₆	13.5	0.15	20000226	17.36075	172.58851	327.74929	13.93436	0.1359641	2.5820017	74	1	143 days	0.66	M-v	3	Marsden	39577	2000 AV ₁₃₆
2000 AX ₁₃₆	13.0	0.15	20000226	351.30402	190.00160	341.42207	7.32208	0.0351983	2.4920871	113	4	1992–2000	0.47	M-v	2	Williams	39577	2000 AX ₁₃₆
2000 AY ₁₃₆	14.0	0.15	20000226	351.52676	51.24113	122.03853	3.61259	0.0995260	2.6281207	54	1	124 days	0.49	M-v	3	Williams	39577	2000 AY ₁₃₆
2000 AZ ₁₃₆	14.0	0.15	20000226	243.04414	176.28478	117.39923	5.53857	0.1506618	2.2177784	87	4	1988–2000	0.67	M-v	2	Williams	39347	2000 AZ ₁₃₆
2000 AC ₁₃₇	13.1	0.15	20000226	312.78001	209.35491	16.78408	5.13823	0.1373753	3.1708629	69	3	1977–2000	0.55	M-v	3	Williams	39577	2000 AC ₁₃₇
2000 AF ₁₃₇	13.3	0.15	20000226	2.31551	18.56855	147.15991	15.67689	0.1952213	2.5813502	80	1	100 days	0.47	M-v	3	Williams	39577	2000 AF ₁₃₇
2000 AG ₁₃₇	14.8	0.15	20000226	288.23573	235.81150	17.18537	2.86448	0.1179685	2.1388192	64	3	1997–2000	0.45	M-v	3	Williams	39348	2000 AG ₁₃₇
2000 AH ₁₃₇	13.5	0.15	20000226	167.80493	223.26320	130.74475	6.39458	0.2044142	2.2122819	90	3	1990–2000	0.57	M-v	2	Williams	39578	2000 AH ₁₃₇
2000 AJ ₁₃₇	14.6	0.15	20000226	9.73639	167.44311	344.24860	11.17645	0.2280514	2.5828142	78	1	95 days	0.52	M-v	3	Williams	39578	2000 AJ ₁₃₇
2000 AK ₁₃₇	13.5	0.15	20000226	41.01915	326.59913	141.33869	17.57781	0.2034701	2.7441285	52	1	126 days	0.54	M-v	4	Williams	39578	2000 AK ₁₃₇
2000 AL ₁₃₇	12.6	0.15	20000226	316.14400	203.49340	20.28951	5.27798	0.1233537	3.1256572	82	3	1997–2000	0.50	M-v	3	Williams	39578	2000 AL ₁₃₇
2000 AO ₁₃₇	13.7	0.15	20000226	47.67286	96.79809	358.96647	11.40749	0.2353456	2.6049155	77	2	1998–2000	0.41	M-v	3	Williams	39578	2000 AO ₁₃₇
2000 AP ₁₃₇	13.5	0.15	20000226	263.81287	186.27226	82.50322	5.52311	0.0297696	2.7816477	81	3	1982–2000	0.68	M-v	3	Williams	39578	2000 AP ₁₃₇
2000 AR ₁₃₇	13.8	0.15	20000226	91.32706	337.35482	81.35885	5.87999	0.1567273	2.2050755	52	1	95 days	0.49	M-v	4	Williams	39578	2000 AR ₁₃₇

2000 AT ₁₃₇	13.6	0.15	20000226	337.12455	220.00752	339.47422	11.97636	0.1378048	2.6387863	50	1	99 days	0.57	M-v	4	Williams	39578	2000 AT ₁₃₇
2000 AU ₁₃₇	13.7	0.15	20000226	358.76071	189.87448	342.86246	12.58532	0.1085486	2.6972618	64	3	1991–2000	0.70	M-v	2	Williams	39348	2000 AU ₁₃₇
2000 AV ₁₃₇	13.7	0.15	20000226	344.00836	208.52642	344.92601	15.14338	0.1657382	2.5716750	63	1	152 days	0.61	M-v	3	Marsden	39578	2000 AV ₁₃₇
2000 AX ₁₃₇	13.5	0.15	20000226	357.36933	108.93452	66.71970	4.94645	0.1880762	3.0991786	49	1	100 days	0.57	M-v	3	Williams		2000 AX ₁₃₇
2000 AA ₁₃₈	13.6	0.15	20000226	345.26091	66.57663	125.99572	8.66114	0.1574064	2.7653763	58	1	95 days	0.41	M-v	3	Williams	39578	2000 AA ₁₃₈
2000 AF ₁₃₈	13.9	0.15	20000226	28.37291	245.53127	129.57102	6.63045	0.2396099	3.0985882	59	1	124 days	0.57	M-v	3	Williams		2000 AF ₁₃₈
2000 AE ₁₃₉	14.4	0.15	20000226	73.07274	218.80027	125.09941	7.54904	0.1481831	2.2717669	69	2	1998–2000	0.64	M-v	3	Williams	39348	2000 AE ₁₃₉
2000 AF ₁₃₉	13.9	0.15	20000226	100.77487	198.69581	115.88388	7.64987	0.1523225	2.1641999	19	1	92 days	0.52	M-v	5	Williams		2000 AF ₁₃₉
2000 AR ₁₃₉	13.9	0.15	20000226	33.30825	301.17989	89.78491	14.01281	0.1733214	2.5541833	19	1	85 days	0.56	M-v	5	Williams		2000 AR ₁₃₉
2000 AS ₁₃₉	13.8	0.15	20000226	123.27221	176.93980	125.67299	6.73282	0.0370298	2.5105466	19	1	88 days	0.63	M-v	6	Williams		2000 AS ₁₃₉
2000 AX ₁₃₉	14.6	0.15	20000226	76.44721	212.47498	130.96601	6.92877	0.1342937	2.3662142	68	3	1997–2000	0.57	M-v	2	Williams	39348	2000 AX ₁₃₉
2000 AZ ₁₃₉	15.3	0.15	20000226	31.22306	263.40535	137.86121	6.72387	0.2268747	2.3025537	36	1	98 days	0.55	M-v	4	Williams		2000 AZ ₁₃₉
2000 AD ₁₄₀	13.6	0.15	20000226	55.80060	227.16347	135.81829	7.42100	0.1656469	2.7527275	19	1	83 days	0.54	M-v	6	Williams		2000 AD ₁₄₀
2000 AE ₁₄₀	13.8	0.15	20000226	60.06444	245.42332	101.47328	12.57409	0.2446871	2.9458599	70	2	1998–2000	0.61	M-v	3	Williams	38880	2000 AE ₁₄₀
2000 AM ₁₄₀	13.8	0.15	20000226	32.99418	189.39721	199.47667	9.07618	0.1698404	2.7884531	60	1	154 days	0.51	M-v	3	Williams	39578	2000 AM ₁₄₀
2000 AV ₁₄₀	15.6	0.15	20000226	20.74063	282.99093	190.18255	5.61979	0.1184080	2.2522155	40	1	91 days	0.50	M-v	4	Williams	39578	2000 AV ₁₄₀
2000 AX ₁₄₀	14.6	0.15	20000226	52.12741	224.67616	199.54032	5.93270	0.2107306	2.4189879	72	1	166 days	0.56	M-v	4	Williams	39578	2000 AX ₁₄₀
2000 AA ₁₄₁	13.2	0.15	20000226	72.87883	250.00834	164.14371	10.56709	0.0980543	2.9918456	43	1	121 days	0.49	M-v	4	Williams	39578	2000 AA ₁₄₁
2000 AD ₁₄₁	14.9	0.15	20000226	46.98081	233.25881	217.77956	5.76512	0.0394043	2.2859796	61	4	1995–2000	0.59	M-v	1	Williams	39578	2000 AD ₁₄₁
2000 AE ₁₄₁	15.3	0.15	20000226	32.92930	219.98378	242.46354	5.37770	0.0903021	2.2662062	35	1	111 days	0.57	M-v	4	Williams		2000 AE ₁₄₁
2000 AG ₁₄₁	14.9	0.15	20000226	88.88678	148.18069	250.37221	6.17873	0.1213448	2.2631969	39	1	85 days	0.62	M-v	5	Williams	39578	2000 AG ₁₄₁
2000 AJ ₁₄₁	14.5	0.15	20000226	35.23355	260.24927	189.65909	6.14747	0.2053069	2.7199891	32	1	81 days	0.42	M-v	4	Williams		2000 AJ ₁₄₁
2000 AK ₁₄₁	14.7	0.15	20000226	44.58535	248.27665	203.10994	5.30816	0.0732118	2.2287610	56	1	138 days	0.50	M-v	4	Williams	39578	2000 AK ₁₄₁
2000 AL ₁₄₁	12.8	0.15	20000226	339.12729	251.73349	277.33021	11.24221	0.1218725	2.6745100	73	1	154 days	0.41	M-v	3	Williams	39578	2000 AL ₁₄₁
2000 AN ₁₄₁	14.0	0.15	20000226	92.11940	226.84359	167.54398	8.04596	0.1305033	2.2471534	86	3	1978–2000	0.51	M-v	1	Williams	39578	2000 AN ₁₄₁
2000 AQ ₁₄₁	13.7	0.15	20000226	118.74809	208.23284	155.05927	12.54549	0.2046124	2.6958326	57	3	1989–2000	0.76	M-v	3	Williams	39578	2000 AQ ₁₄₁
2000 AT ₁₄₁	13.4	0.15	20000226	65.05219	258.46276	169.02786	10.25159	0.0809031	3.1658342	43	2	1998–2000	0.47	M-v	3	Williams	39578	2000 AT ₁₄₁
2000 AU ₁₄₁	14.7	0.15	20000226	106.69654	134.67616	248.23987	5.89508	0.1208212	2.3106770	42	3	1994–2000	0.61	M-v	3	Williams	39578	2000 AU ₁₄₁
2000 AY ₁₄₁	14.5	0.15	20000226	79.12826	215.21239	183.92024	4.82332	0.2257269	2.3250703	60	2	1997–2000	0.55	M-v	4	Williams	39578	2000 AY ₁₄₁
2000 AB ₁₄₂	15.3	0.15	20000226	19.03034	218.41146	263.89890	5.07493	0.1305439	2.3174617	40	1	111 days	0.66	M-v	4	Williams	39578	2000 AB ₁₄₂
2000 AD ₁₄₂	12.5	0.15	20000226	277.91528	316.22704	282.92159	8.00541	0.1031386	2.7817247	83	3	1988–2000	0.62	M-v	3	Williams	39578	2000 AD ₁₄₂
2000 AG ₁₄₂	14.3	0.15	20000226	59.59426	131.90195	298.39951	12.31750	0.1555618	2.6975312	47	3	1993–2000	0.58	M-v	2	Williams	39578	2000 AG ₁₄₂
2000 AJ ₁₄₂	13.3	0.15	20000226	24.83172	322.15645	154.45285	13.13554	0.0968715	2.7160358	64	1	110 days	0.44	M-v	4	Williams	39578	2000 AJ ₁₄₂
2000 AL ₁₄₂	13.6	0.15	20000226	272.98124	345.68297	265.96581	8.69475	0.1536342	2.5678856	37	1	113 days	0.59	M-v	4	Williams	39578	2000 AL ₁₄₂
2000 AN ₁₄₂	13.7	0.15	20000226	355.06401	259.96049	255.70701	6.62931	0.1135967	2.4199072	42	1	122 days	0.46	M-v	3	Williams		2000 AN ₁₄₂
2000 AP ₁₄₂	13.2	0.15	20000226	78.92719	256.83221	162.54943	10.24350	0.0759827	2.9794308	29	1	89 days	0.41	M-v	4	Williams	39578	2000 AP ₁₄₂
2000 AU ₁₄₂	12.2	0.15	20000226	201.25481	151.13101	158.56449	11.18128	0.0750323	2.9988838	67	1	147 days	0.51	M-v	3	Williams	39578	2000 AU ₁₄₂
2000 AX ₁₄₂	14.1	0.15	20000226	106.98049	170.94255	216.89888	5.95548	0.1288854	2.3355047	52	3	1991–2000	0.55	M-v	2	Williams	39578	2000 AX ₁₄₂
2000 AA ₁₄₃	14.1	0.15	20000226	294.01732	292.32096	299.13203	11.82194	0.1335555	2.5772694	26	1	63 days	0.43	M-v	5	Williams	39578	2000 AA ₁₄₃
2000 AC ₁₄₃	12.9	0.15	20000226	112.41967	81.75451	299.53803	13.46869	0.1745567	3.1082599	29	1	113 days	0.64	M-v	4	Williams	39578	2000 AC ₁₄₃
2000 AD ₁₄₃	14.1	0.15	20000226	7.60973	225.36063	274.80963	6.88442	0.2459252	2.8536338	68	2	1995–2000	0.52	M-v	3	Williams	39578	2000 AD ₁₄₃
2000 AE ₁₄₃	12.5	0.15	20000226	85.64746	140.87063	275.86730	9.20260	0.0857610	2.9949595	42	1	117 days	0.65	M-v	4	Williams	39578	2000 AE ₁₄₃
2000 AF ₁₄₃	13.8	0.15	20000226	317.00103	316.56461	270.28167	5.40188	0.2952440	2.3317210	99	1	119 days	0.53	M-v	4	Williams	39578	2000 AF ₁₄₃
2000 AH ₁₄₃	15.0	0.15	20000226	18.24727	226.92028	258.86443	3.41216	0.2053984	2.6215786	32	1	82 days	0.51	M-v	4	Williams	39578	2000 AH ₁₄₃
2000 AJ ₁₄₃	15.4	0.15	20000226	16.26293	225.17609	262.73286	3.48319	0.2342346	2.5688554	31	1	82 days	0.52	M-v	4	Williams	39578	2000 AJ ₁₄₃
2000 AL ₁₄₃	14.6	0.15	20000226	1.07926	225.01271	274.07817	10.15272	0.0724563	2.6947731	33	1	82 days	0.59	M-v	4	Williams		2000 AL ₁₄₃
2000 AO ₁₄₃	15.1	0.15	20000226	60.65505	250.93048	181.66478	5.82020	0.0794249	2.4516345	47	3	1997–2000	0.62	M-v	3	Williams	39578	2000 AO ₁₄₃
2000 AR ₁₄₃	14.3	0.15	20000226	120.55413	227.99697	143.20633	21.19363	0.1362399	2.4418548	71	2	1998–2000	0.65	M-v	3	Williams	39578	2000 AR ₁₄₃
2000 AS ₁₄₃	15.4	0.15	20000226	344.28244	258.83740	269.96418	4.49327	0.1162523	2.1714019	42	1	123 days	0.59	M-v	4	Williams	39578	2000 AS ₁₄₃
2000 AU ₁₄₃	13.3	0.15	20000226	23.01674	333.39332	147.62784	17.94874	0.0730493	2.7883536	92	1	121 days	0.47	M-v	3	Williams	39579	2000 AU ₁₄₃
2000 AV ₁₄₃	12.5	0.15	20000226	206.50794	147.97012	155.73965	11.41207	0.0958880	2.9845098	54	3	1995–2000	0.54	M-v	3	Williams	39579	2000 AV ₁₄₃
2000 AX ₁₄₃	14.1	0.15	20000226	272.46538	327.06875	283.85753	6.24176	0.0842457	2.3425068	25	1	119 days	0.66	M-v	5	Williams	38880	2000 AX ₁₄₃
2000 AB ₁₄₄	14.9	0.15	20000226	93.04631	96.70781	311.00580	18.44047	0.1386025	1.9558519	48	2	1978–2000	0.49	M-v	4	Williams	39349	2000 AB ₁₄₄

2000 AC ₁₄₄	14.4	0.15	20000226	76.70370	149.48211	272.85854	3.68652	0.1538170	2.2191294	44	1	121 days	0.58	M-v	4	Williams	39579	2000 AC ₁₄₄
2000 AD ₁₄₄	13.6	0.15	20000226	349.06144	21.54300	150.25769	18.12382	0.1031221	3.1294444	50	1	89 days	0.55	M-v	4	Williams	39579	2000 AD ₁₄₄
2000 AE ₁₄₄	14.5	0.15	20000226	6.08632	224.47129	287.99125	5.58566	0.0699137	2.4005301	43	1	90 days	0.57	M-v	4	Williams	39579	2000 AE ₁₄₄
2000 AF ₁₄₄	14.4	0.15	20000226	34.68455	184.35953	296.40500	6.99607	0.0632417	2.4037252	45	1	121 days	0.61	M-v	4	Williams	39579	2000 AF ₁₄₄
2000 AL ₁₄₄	14.2	0.15	20000226	333.91579	50.63831	145.57823	18.22241	0.1620375	2.5468882	66	2	1997–2000	0.43	M-v	3	Williams	39579	2000 AL ₁₄₄
2000 AM ₁₄₄	14.2	0.15	20000226	51.27779	150.69956	304.04697	3.70289	0.1415906	2.2497289	65	2	1998–2000	0.57	M-v	4	Williams	39579	2000 AM ₁₄₄
2000 AN ₁₄₄	13.1	0.15	20000226	95.91462	95.02938	314.19181	12.12307	0.1463567	2.6343128	62	1	90 days	0.48	M-v	4	Williams	39579	2000 AN ₁₄₄
2000 AO ₁₄₄	14.3	0.15	20000226	8.55011	211.45296	300.00728	6.27244	0.0940826	2.2494723	52	1	121 days	0.59	M-v	3	Williams	39579	2000 AO ₁₄₄
2000 AP ₁₄₄	12.7	0.15	20000226	217.13735	336.06035	328.41588	21.79437	0.0146674	2.6425012	70	4	1993–2000	0.64	M-v	1	Williams	39579	2000 AP ₁₄₄
2000 AQ ₁₄₄	14.9	0.15	20000226	35.79033	332.54814	144.77796	4.87259	0.1013722	2.2126167	55	1	89 days	0.55	M-v	4	Williams	39579	2000 AQ ₁₄₄
2000 AS ₁₄₄	14.3	0.15	20000226	33.59486	153.96349	328.01590	12.73072	0.1199581	2.7502521	38	1	90 days	0.56	M-v	4	Williams	39579	2000 AS ₁₄₄
2000 AT ₁₄₄	13.4	0.15	20000226	322.43117	245.53998	324.70095	13.14222	0.1011197	2.5808093	82	3	1993–2000	0.71	M-v	3	Williams	39579	2000 AT ₁₄₄
2000 AU ₁₄₄	13.0	0.15	20000226	26.08741	339.77166	151.23449	13.42460	0.1352625	2.6291257	81	1	146 days	0.52	M-v	3	Williams	39579	2000 AU ₁₄₄
2000 AV ₁₄₄	14.3	0.15	20000226	46.10116	136.07885	329.91251	12.76086	0.1390961	2.6387936	38	1	90 days	0.67	M-v	4	Williams	39579	2000 AV ₁₄₄
2000 AW ₁₄₄	13.7	0.15	20000226	345.78722	37.36569	157.63111	1.50327	0.2980867	3.2343299	85	2	1994–2000	0.45	M-v	3	Williams	39349	2000 AW ₁₄₄
2000 AZ ₁₄₄	14.8	0.15	20000226	305.97227	286.01447	291.71332	7.59549	0.0833133	2.4739670	30	1	82 days	0.58	M-v	4	Williams	39579	2000 AZ ₁₄₄
2000 AA ₁₄₅	14.1	0.15	20000226	321.42531	280.54565	290.01074	4.44535	0.1561132	2.4036999	53	1	91 days	0.52	M-v	4	Williams	39579	2000 AA ₁₄₅
2000 AG ₁₄₅	14.3	0.15	20000117	273.74772	87.63257	124.92002	12.27981	0.0780365	3.0629061	28	1	38 days	0.54			Williams		2000 AG ₁₄₅
2000 AQ ₁₄₅	14.0	0.15	20000226	18.76137	225.98812	253.98396	6.66071	0.1726035	2.7906942	63	1	140 days	0.59	M-v	3	Williams	39579	2000 AQ ₁₄₅
2000 AX ₁₄₅	14.1	0.15	20000226	12.32244	177.23600	227.68317	6.64710	0.2113074	2.7382380	68	3	1981–2000	0.57	M-v	3	Williams	39350	2000 AX ₁₄₅
2000 AZ ₁₄₅	15.8	0.15	20000226	34.89305	133.00338	259.06866	1.48937	0.2424666	2.3282535	88	1	119 days	0.45	M-v	3	Williams	38881	2000 AZ ₁₄₅
2000 AN ₁₄₆	9.9	0.15	20000226	334.36974	252.57088	256.58666	17.40266	0.0509572	5.2027489	55	2	1998–2000	0.49	M-v	3	Williams	38881	2000 AN ₁₄₆
2000 AV ₁₄₆	14.6	0.15	20000226	322.04981	357.87484	196.24782	6.96703	0.1214525	2.5426468	34	1	92 days	0.48	M-v	4	Williams		2000 AV ₁₄₆
2000 AY ₁₄₆	14.5	0.15	20000226	128.27862	84.48112	269.56785	20.32732	0.1597353	1.9200129	45	2	1993–2000	0.57	M-v	4	Williams	38881	2000 AY ₁₄₆
2000 AA ₁₄₇	13.1	0.15	20000226	193.41894	328.63717	339.54466	12.94295	0.1538183	2.5395329	66	2	1998–2000	0.62	M-v	3	Williams	39350	2000 AA ₁₄₇
2000 AB ₁₄₇	16.4	0.15	20000226	30.05851	135.69358	307.97692	4.45366	0.2244049	2.5853171	52	1	62 days	0.59	M-v	5	Williams	39579	2000 AB ₁₄₇
2000 AY ₁₄₇	14.6	0.15	20000226	103.71393	214.62752	146.83168	6.73298	0.1455297	2.4186033	36	3	1987–2000	0.71	M-v	2	Williams	38692	2000 AY ₁₄₇
2000 AB ₁₄₈	15.8	0.15	20000117	72.56757	270.25943	120.59394	7.53273	0.1184803	2.2839638	36	1	43 days	0.49			Williams		2000 AB ₁₄₈
2000 AC ₁₄₈	14.1	0.15	20000117	315.87157	240.00863	289.04117	7.76330	0.0855333	3.0849565	19	1	29 days	0.47			Williams		2000 AC ₁₄₈
2000 AD ₁₄₈	13.3	0.15	20000117	195.13244	165.11589	120.35112	16.35153	0.1212066	2.9248634	32	1	43 days	0.44			Williams		2000 AD ₁₄₈
2000 AH ₁₄₈	12.6	0.15	20000226	50.79389	158.63077	292.08359	12.60136	0.1336811	2.6879909	83	1	142 days	0.50	M-v	4	Williams	39579	2000 AH ₁₄₈
2000 AJ ₁₄₈	13.4	0.15	20000226	10.78027	140.49968	261.03205	17.95595	0.1490020	3.2042963	26	1	171 days	0.60	M-v	4	Williams	38881	2000 AJ ₁₄₈
2000 AV ₁₄₈	13.1	0.15	20000226	41.21714	266.45896	128.40841	8.81919	0.2179078	3.0946049	56	2	1998–2000	0.51	M-v	3	Williams	38692	2000 AV ₁₄₈
2000 AW ₁₄₈	15.0	0.15	20000226	42.06344	243.73304	147.58589	8.68380	0.2990192	2.7413804	41	2	1994–2000	0.59	M-v	3	Williams	38881	2000 AW ₁₄₈
2000 AX ₁₄₈	13.3	0.15	20000226	83.96564	175.64227	177.33148	9.40661	0.1626289	2.7701586	39	1	147 days	0.43	M-v	4	Williams	39579	2000 AX ₁₄₈
2000 AZ ₁₄₈	13.8	0.15	20000226	314.27904	10.47192	139.79235	11.30920	0.0504500	2.3633031	46	2	1998–2000	0.61	M-v	3	Williams	39579	2000 AZ ₁₄₈
2000 AA ₁₄₉	13.4	0.15	20000226	88.60416	218.82692	137.67843	11.58612	0.0744822	2.9594025	54	2	1998–2000	0.63	M-v	3	Williams	39579	2000 AA ₁₄₉
2000 AD ₁₄₉	14.0	0.15	20000226	341.15603	310.39694	177.73482	6.53712	0.0896800	2.3982888	40	1	147 days	0.58	M-v	4	Williams	39579	2000 AD ₁₄₉
2000 AE ₁₄₉	14.8	0.15	20000226	73.59100	179.74602	198.14900	7.92911	0.1304492	2.3320616	36	1	147 days	0.57	M-v	4	Williams	39579	2000 AE ₁₄₉
2000 AC ₁₅₀	14.1	0.15	20000226	342.36625	288.63026	202.33903	9.68706	0.0406601	2.9827654	22	3	1996–2000	0.56	M-v	4	Williams	38693	2000 AC ₁₅₀
2000 AJ ₁₅₀	13.9	0.15	20000226	103.14397	100.78920	251.34549	12.25819	0.2044954	2.7214278	33	2	1998–2000	0.53	M-v	3	Williams	38881	2000 AJ ₁₅₀
2000 AU ₁₅₀	14.3	0.15	20000226	8.22516	330.40629	153.11328	10.53030	0.1832256	2.3476158	66	3	1988–2000	0.52	M-v	2	Williams	39350	2000 AU ₁₅₀
2000 AV ₁₅₀	13.4	0.15	20000226	160.06164	158.95602	166.92306	11.12340	0.0702836	2.8596891	47	4	1988–2000	0.64	M-v	2	Williams	39579	2000 AV ₁₅₀
2000 AY ₁₅₀	12.5	0.15	20000226	319.03837	55.20430	148.41667	27.14104	0.1993175	2.9307347	75	5	1980–2000	0.53	M-v	2	Williams	39579	2000 AY ₁₅₀
2000 AF ₁₅₂	14.0	0.15	20000226	332.30210	31.84291	94.27212	24.55097	0.1844397	2.2903254	52	2	1994–2000	0.49	M-v	3	Williams	38693	2000 AF ₁₅₂
2000 AS ₁₅₂	13.2	0.15	20000226	157.06544	58.64904	268.84919	19.69689	0.1541878	1.9177740	58	3	1951–2000	0.47	M-v	3	Williams	39579	2000 AS ₁₅₂
2000 AZ ₁₅₂	15.5	0.15	20000226	350.82830	229.22927	300.15160	20.95883	0.2545802	2.2806302	29	1	90 days	0.37	M-v	4	Williams		2000 AZ ₁₅₂
2000 AH ₁₅₃	15.0	0.15	20000226	73.09725	106.62692	313.25198	8.30592	0.1333963	2.3253355	47	3	1991–2000	0.64	M-v	2	Williams	39350	2000 AH ₁₅₃
2000 AO ₁₅₃	13.7	0.15	20000226	349.52685	167.15333	273.40815	21.25436	0.0440860	2.6538535	30	1	107 days	0.52	M-v	4	Williams	38882	2000 AO ₁₅₃
2000 AQ ₁₅₄	15.9	0.15	20000226	34.72564	354.71821	40.45439	9.55125	0.2730893	2.3870428	67	1	113 days	0.53	M-v	3	Williams	39579	2000 AQ ₁₅₄
2000 AU ₁₅₄	15.1	0.15	20000226	359.66852	181.51411	272.49862	5.92564	0.0726754	2.3832152	30	1	75 days	0.68	M-v	5	Williams		2000 AU ₁₅₄
2000 AV ₁₅₈	14.6	0.15	20000226	39.45704	141.05417	300.98444	13.04165	0.0541513	2.6030992	41	3	1996–2000	0.51	M-v	2	Williams	38882	2000 AV ₁₅₈
2000 AB ₁₅₉	14.6	0.15	19991228	34.21827	114.02494	304.74807	10.79181	0.2230627	3.1403601	34	1	51 days	0.78			Williams		2000 AB ₁₅₉

2000 APR. 18

M.P.C. 40441

2000 AL ₁₅₉	13.6	0.15	20000226	184.74424	351.72696	310.11401	9.89630	0.0440950	2.9825430	28	1	61 days	0.67	M-v	5	Williams	39579	2000 AL ₁₅₉
2000 AN ₁₅₉	15.6	0.15	20000226	342.50764	61.15089	93.55029	8.56932	0.1226945	2.3639372	38	2	1995–2000	0.57	M-v	4	Williams	38695	2000 AN ₁₅₉
2000 AT ₁₅₉	15.8	0.15	20000117	20.77406	22.02164	70.22192	3.32850	0.1484179	2.6269674	36	1	52 days	0.70			Williams		2000 AT ₁₅₉
2000 AU ₁₅₉	16.0	0.15	19991228	34.96370	346.09005	76.88133	3.30738	0.1893281	2.4150211	31	1	55 days	0.55			Williams		2000 AU ₁₅₉
2000 AG ₁₆₁	15.9	0.15	20000226	46.86974	87.50147	337.55202	6.78559	0.2458295	2.3379085	32	1	61 days	0.50	M-v	5	Williams		2000 AG ₁₆₁
2000 AN ₁₆₁	14.9	0.15	20000226	294.99754	212.16428	2.16259	5.30381	0.1151553	2.2246030	43	2	1998–2000	0.56	M-v	4	Williams	39579	2000 AN ₁₆₁
2000 AS ₁₆₁	14.0	0.15	20000226	186.75971	293.15974	308.83359	6.20180	0.0768887	2.3423927	69	3	1990–2000	0.62	M-v	3	Williams	39351	2000 AS ₁₆₁
2000 AT ₁₆₁	14.5	0.15	20000226	49.63306	327.93576	30.00733	9.47370	0.2787255	2.7475314	81	1	135 days	0.48	M-v	3	Williams	39579	2000 AT ₁₆₁
2000 AC ₁₆₂	13.6	0.15	20000226	248.68246	316.89887	302.15217	2.63479	0.1858015	2.4553561	41	4	1982–2000	0.57	M-v	2	Williams	39351	2000 AC ₁₆₂
2000 AJ ₁₆₂	15.2	0.15	20000226	304.46692	248.81180	316.09540	4.51964	0.0811945	2.1716520	69	2	1998–2000	0.56	M-v	4	Williams	39580	2000 AJ ₁₆₂
2000 AR ₁₆₂	13.1	0.15	20000226	66.02491	108.00105	331.66642	12.00856	0.1357650	2.6752204	76	1	125 days	0.54	M-v	4	Williams	39580	2000 AR ₁₆₂
2000 AS ₁₆₂	14.5	0.15	20000226	50.59502	82.06578	358.43111	4.16263	0.2860058	2.4200208	91	2	1985–2000	0.56	M-v	3	Williams	39580	2000 AS ₁₆₂
2000 AT ₁₆₂	13.6	0.15	20000226	46.18942	325.20286	148.54211	9.17257	0.1047483	2.7704004	72	1	95 days	0.50	M-v	4	Williams	39580	2000 AT ₁₆₂
2000 AU ₁₆₂	15.1	0.15	20000226	56.81046	64.99895	19.79884	2.68716	0.1659680	2.3869847	58	2	1998–2000	0.46	M-v	3	Williams	39351	2000 AU ₁₆₂
2000 AY ₁₆₃	14.5	0.15	20000117	45.40030	297.65573	130.21795	4.45674	0.0670103	2.5865375	37	1	43 days	0.41			Williams		2000 AY ₁₆₃
2000 AD ₁₆₄	14.3	0.15	20000226	245.24672	2.00619	255.32150	2.99606	0.0791946	2.6424463	29	1	60 days	0.51	M-v	5	Williams	39580	2000 AD ₁₆₄
2000 AE ₁₆₄	13.7	0.15	20000226	238.22705	56.88218	216.01591	0.89773	0.1679437	2.5991191	60	4	1989–2000	0.63	M-v	2	Williams	38697	2000 AE ₁₆₄
2000 AF ₁₆₄	12.9	0.15	20000226	295.49317	84.06454	139.89216	14.36857	0.1552244	2.5857785	109	4	1980–2000	0.60	M-v	2	Williams	39580	2000 AF ₁₆₄
2000 AH ₁₆₄	13.6	0.15	20000226	241.86084	89.89597	179.96235	8.95159	0.0620803	2.9939298	40	4	1990–2000	0.72	M-v	1	Williams	39580	2000 AH ₁₆₄
2000 AK ₁₆₄	13.2	0.15	20000226	318.20905	35.30690	188.65804	13.72045	0.1102447	2.5979688	81	3	1993–2000	0.50	M-v	2	Williams	39351	2000 AK ₁₆₄
2000 AL ₁₆₄	13.1	0.15	20000226	284.43760	25.36238	240.09670	6.85549	0.1400664	2.4791243	45	3	1982–2000	0.64	M-v	3	Williams	39352	2000 AL ₁₆₄
2000 AN ₁₆₄	13.1	0.15	20000226	34.98193	178.24667	317.78235	14.03194	0.0881532	2.6061831	55	3	1987–2000	0.71	M-v	2	Marsden	39352	2000 AN ₁₆₄
2000 AO ₁₆₄	13.9	0.15	20000226	294.89529	347.59756	267.15575	4.97767	0.1132847	2.3197734	44	3	1990–2000	0.51	M-v	3	Williams	39352	2000 AO ₁₆₄
2000 AP ₁₆₄	12.5	0.15	20000226	17.58348	199.78797	316.85801	11.82908	0.0980940	2.6911033	28	1	97 days	0.48	M-v	4	Williams	39580	2000 AP ₁₆₄
2000 AQ ₁₆₄	12.7	0.15	20000226	324.34394	311.74225	264.57058	7.81865	0.1543452	3.0406454	63	3	1997–2000	0.65	M-v	3	Williams	39580	2000 AQ ₁₆₄
2000 AL ₁₆₅	13.2	0.15	20000226	4.79288	324.42903	103.89913	18.09568	0.2047587	3.1527405	60	1	173 days	0.52	M-v	3	Williams	39580	2000 AL ₁₆₅
2000 AN ₁₆₅	12.4	0.15	20000226	41.37502	184.22112	225.97178	21.13254	0.0450309	3.2299809	44	1	148 days	0.49	M-v	4	Williams	39580	2000 AN ₁₆₅
2000 AP ₁₆₅	13.7	0.15	20000226	50.61024	194.20799	200.14725	12.77333	0.1655760	2.6729551	44	1	119 days	0.46	M-v	4	Williams	38883	2000 AP ₁₆₅
2000 AR ₁₆₅	14.9	0.15	20000226	13.36889	318.85323	136.45478	14.48112	0.2563998	2.5878949	42	2	1996–2000	0.48	M-v	2	Williams	39580	2000 AR ₁₆₅
2000 AD ₁₆₆	12.7	0.15	20000226	22.23808	316.07532	136.63593	24.70496	0.1435005	3.1756362	23	1	87 days	0.33	M-v	3	Williams		2000 AD ₁₆₆
2000 AG ₁₆₆	13.3	0.15	19991228	215.67960	356.16248	269.63931	24.97986	0.1023165	3.2047759	18	1	3 days	0.52		E	Williams		2000 AG ₁₆₆
2000 AG ₁₆₇	14.5	0.15	20000226	12.55423	280.48281	190.37883	8.74081	0.2920086	3.1438666	59	2	1998–2000	0.57	M-v	3	Williams	39580	2000 AG ₁₆₇
2000 AM ₁₆₇	14.2	0.15	20000226	300.55144	78.33290	144.72104	22.97866	0.2484560	2.2931606	63	1	93 days	0.48	M-v	4	Williams		2000 AM ₁₆₇
2000 AY ₁₆₇	14.3	0.15	20000226	59.48089	274.10022	161.84926	5.74529	0.1184230	2.2769197	64	1	115 days	0.44	M-v	4	Williams	39580	2000 AY ₁₆₇
2000 AA ₁₆₈	13.3	0.15	20000226	5.09106	39.29438	136.00996	9.70898	0.0690030	2.2710529	66	3	1986–2000	0.68	M-v	2	Williams	39352	2000 AA ₁₆₈
2000 AB ₁₆₈	12.8	0.15	20000226	319.50238	115.00789	114.13502	10.43288	0.0485470	3.1626586	51	1	96 days	0.55	M-v	4	Williams		2000 AB ₁₆₈
2000 AG ₁₆₈	15.2	0.15	20000226	32.43818	89.33746	61.01775	7.59310	0.0610128	2.3667728	41	1	97 days	0.68	M-v	5	Williams	39580	2000 AG ₁₆₈
2000 AN ₁₆₈	14.5	0.15	20000226	115.74141	242.78780	144.08529	6.40068	0.0394072	2.6071109	82	2	1998–2000	0.56	M-v	3	Williams	39580	2000 AN ₁₆₈
2000 AW ₁₆₈	14.9	0.15	20000226	18.23604	270.34984	162.66960	7.58755	0.0822782	2.2675097	45	1	93 days	0.50	M-v	4	Williams	38883	2000 AW ₁₆₈
2000 AB ₁₆₉	15.0	0.15	20000226	47.41085	241.76820	142.91632	9.31862	0.2621389	2.4838877	35	1	84 days	0.41	M-v	4	Williams	38883	2000 AB ₁₆₉
2000 AG ₁₆₉	14.6	0.15	20000226	79.71744	224.01912	132.30864	10.66309	0.1701329	2.3053251	41	3	1997–2000	0.80	M-v	2	Williams	39352	2000 AG ₁₆₉
2000 AY ₁₇₀	13.6	0.15	20000226	52.93009	252.13138	130.75650	9.49403	0.2439499	2.6190509	52	1	147 days	0.39	M-v	3	Williams	39580	2000 AY ₁₇₀
2000 AX ₁₇₄	13.8	0.15	20000226	48.01013	182.04318	224.98118	8.56353	0.1516217	2.7635588	41	4	1980–2000	0.58	M-v	1	Williams	38699	2000 AX ₁₇₄
2000 AG ₁₇₅	12.5	0.15	20000226	75.47815	157.44762	207.86308	10.03890	0.2221816	2.8585769	46	2	1989–2000	0.53	M-v	3	Williams	39580	2000 AG ₁₇₅
2000 AO ₁₇₇	13.9	0.15	20000226	353.23719	314.46076	173.56186	6.75904	0.1937553	2.7618792	29	1	117 days	0.36	M-v	4	Williams	38883	2000 AO ₁₇₇
2000 AT ₁₇₇	10.4	0.15	20000226	7.64377	301.40566	155.13091	13.19604	0.0861048	5.1482345	48	3	1996–2000	0.54	M-v	2	Williams	38699	2000 AT ₁₇₇
2000 AZ ₁₇₇	13.0	0.15	20000226	119.78096	161.70186	166.18213	7.83207	0.2940576	2.6549503	58	3	1993–2000	0.71	M-v	2	Williams	38700	2000 AZ ₁₇₇
2000 AT ₁₈₀	14.8	0.15	20000226	38.72852	242.70469	197.93525	5.58165	0.1077593	2.2750666	39	3	1997–2000	0.59	M-v	3	Williams	38700	2000 AT ₁₈₀
2000 AN ₁₈₂	13.9	0.15	20000226	355.01346	325.14202	170.62025	9.42291	0.0917158	2.7658230	55	4	1977–2000	0.78	M-v	2	Williams	39580	2000 AN ₁₈₂
2000 AT ₁₈₄	14.7	0.15	20000226	45.38316	275.61633	150.13722	9.25369	0.1867942	2.3697686	26	1	117 days	0.45	M-v	4	Williams	38883	2000 AT ₁₈₄
2000 AD ₁₈₅	14.1	0.15	20000226	55.64125	246.35460	182.19602	6.76255	0.0956580	2.3598402	58	3	1991–2000	0.57	M-v	2	Williams	39580	2000 AD ₁₈₅
2000 AK ₁₈₅	13.9	0.15	20000226	28.54245	188.95854	267.02098	10.23245	0.1822188	2.6088484	67	3	1986–2000	0.62	M-v	2	Williams	38883	2000 AK ₁₈₅
2000 AM ₁₈₅	12.8	0.15	20000226	322.17928	306.53590	280.85193	8.03555	0.1364602	3.1053792	38	1	95 days	0.53	M-v	4	Williams	39580	2000 AM ₁₈₅

2000 AC ₁₈₆	13.3	0.15	20000226	334.12539	275.17312	183.86465	14.02691	0.1173430	3.2076086	15	1	91 days	0.63	M-v	6	Williams	2000 AC ₁₈₆
2000 AH ₁₈₆	15.4	0.15	20000226	46.38130	228.33456	140.21734	9.33227	0.3040269	2.4209757	38	1	142 days	0.58	M-v	4	Williams	38883 2000 AH ₁₈₆
2000 AA ₁₈₇	14.0	0.15	20000226	16.98601	282.16298	140.64300	9.25643	0.2543905	2.6797593	46	1	152 days	0.46	M-v	3	Williams	39580 2000 AA ₁₈₇
2000 AE ₁₈₇	14.2	0.15	20000226	10.09057	282.87240	150.21822	12.72702	0.1238304	2.5665614	49	1	122 days	0.53	M-v	3	Williams	38883 2000 AE ₁₈₇
2000 AG ₁₈₇	14.2	0.15	20000226	60.17939	174.98498	198.23153	15.62704	0.1294431	2.6128009	58	2	1998–2000	0.65	M-v	3	Williams	38701 2000 AG ₁₈₇
2000 AU ₁₈₇	14.8	0.15	20000226	9.50148	276.98027	164.25376	11.76229	0.1735241	2.6517649	42	3	1990–2000	0.65	M-v	2	Williams	38701 2000 AU ₁₈₇
2000 AV ₁₈₇	13.7	0.15	20000226	224.97540	38.79191	193.80404	14.05323	0.1199832	2.3770618	58	2	1998–2000	0.54	M-v	3	Williams	38702 2000 AV ₁₈₇
2000 AX ₁₈₇	15.1	0.15	20000226	347.34936	343.11447	136.11266	12.28695	0.1884327	2.4024005	38	1	148 days	0.57	M-v	4	Williams	39580 2000 AX ₁₈₇
2000 AB ₁₈₈	14.2	0.15	20000226	315.47909	309.03188	197.10259	13.29907	0.0945177	2.5408972	49	1	119 days	0.50	M-v	4	Williams	38883 2000 AB ₁₈₈
2000 AE ₁₈₈	14.6	0.15	20000226	26.68519	288.01050	124.31928	13.38778	0.3321642	2.7079089	54	1	173 days	0.44	M-v	3	Williams	39580 2000 AE ₁₈₈
2000 AQ ₁₈₈	14.5	0.15	20000226	24.26551	284.86279	146.11291	10.89442	0.2322958	2.3668148	34	1	120 days	0.40	M-v	3	Williams	39580 2000 AQ ₁₈₈
2000 AY ₁₈₉	12.8	0.15	20000226	71.68404	153.48542	218.21140	12.91426	0.1941393	2.7028898	34	1	148 days	0.55	M-v	4	Williams	39580 2000 AY ₁₈₉
2000 AF ₁₉₂	13.0	0.15	20000226	23.95688	290.92733	163.49743	16.44851	0.0402611	3.1232158	34	3	1992–2000	0.63	M-v	3	Williams	39580 2000 AF ₁₉₂
2000 AT ₁₉₂	13.2	0.15	20000226	81.28908	217.34350	158.64408	16.31011	0.2215845	2.6560717	43	2	1994–2000	0.54	M-v	4	Williams	39580 2000 AT ₁₉₂
2000 AL ₁₉₃	12.5	0.15	20000226	217.18965	21.72342	251.91621	13.75912	0.0932607	3.1265483	55	4	1986–2000	0.75	M-v	1	Williams	38703 2000 AL ₁₉₃
2000 AZ ₁₉₃	13.4	0.15	20000226	47.44651	176.45929	249.29038	11.09854	0.1944473	2.5993238	73	3	1982–2000	0.58	M-v	2	Williams	39353 2000 AZ ₁₉₃
2000 AU ₁₉₄	14.8	0.15	20000226	329.49225	358.62064	176.98242	8.24815	0.1662387	2.6675859	27	1	90 days	0.49	M-v	4	Williams	39581 2000 AU ₁₉₄
2000 AX ₁₉₄	15.4	0.15	20000226	68.64460	208.25672	194.52468	6.98791	0.1995402	2.3125643	17	1	61 days	0.60	M-v	6	Williams	2000 AX ₁₉₄
2000 AB ₁₉₅	13.6	0.15	20000226	353.08723	282.65635	218.07401	8.92338	0.0391166	3.0536542	67	2	1998–2000	0.59	M-v	4	Williams	39581 2000 AB ₁₉₅
2000 AD ₁₉₅	13.7	0.15	20000226	193.80900	49.97370	252.85200	12.60773	0.1821165	2.5532928	44	2	1998–2000	0.59	M-v	4	Williams	39581 2000 AD ₁₉₅
2000 AS ₁₉₅	13.4	0.15	20000226	56.76542	177.74093	242.75303	8.06412	0.1670063	2.5840208	72	2	1998–2000	0.59	M-v	3	Williams	39581 2000 AS ₁₉₅
2000 AU ₁₉₅	12.6	0.15	20000226	291.29990	63.82013	151.00384	14.04175	0.1163230	2.6148388	53	1	168 days	0.49	M-v	4	Williams	39581 2000 AU ₁₉₅
2000 AM ₁₉₆	13.3	0.15	20000226	340.23783	244.28276	277.96913	14.43807	0.1256688	3.1662215	46	1	148 days	0.59	M-v	4	Williams	39581 2000 AM ₁₉₆
2000 AP ₁₉₆	13.4	0.15	20000226	326.33161	284.16026	249.45423	9.41210	0.0421092	2.9797518	65	3	1996–2000	0.57	M-v	3	Williams	39581 2000 AP ₁₉₆
2000 AR ₁₉₆	15.7	0.15	20000226	5.04185	346.80599	146.09234	14.34633	0.2595444	2.6911179	47	1	81 days	0.49	M-v	3	Williams	2000 AR ₁₉₆
2000 AC ₁₉₇	13.0	0.15	20000226	150.22282	78.45760	263.98785	14.62577	0.0845721	3.2023440	22	1	82 days	0.46	M-v	5	Williams	39581 2000 AC ₁₉₇
2000 AF ₁₉₇	14.5	0.15	20000226	52.44617	259.72689	171.32841	8.84415	0.2121365	2.4064542	62	1	116 days	0.56	M-v	4	Williams	39581 2000 AF ₁₉₇
2000 AG ₁₉₇	13.0	0.15	20000206	222.78397	17.15454	264.78922	11.75158	0.1608334	2.6082676	16	1	58 days	0.30			Williams	2000 AG ₁₉₇
2000 AP ₁₉₇	14.9	0.15	20000226	22.47299	234.09754	238.83299	9.52590	0.1188050	2.4398469	24	1	83 days	0.57	M-v	4	Williams	39581 2000 AP ₁₉₇
2000 AS ₁₉₇	13.5	0.15	20000226	62.33505	152.90784	271.13559	13.00712	0.1462743	2.4237329	50	1	166 days	0.39	M-v	3	Williams	39581 2000 AS ₁₉₇
2000 AW ₁₉₇	13.9	0.15	20000226	93.01466	134.73808	255.10504	8.69828	0.1534737	2.7564041	60	2	1998–2000	0.53	M-v	3	Williams	39581 2000 AW ₁₉₇
2000 AY ₁₉₇	13.5	0.15	20000226	15.03890	270.33960	211.87297	8.60584	0.0897528	3.3827917	34	1	63 days	0.53	M-v	4	Williams	39581 2000 AY ₁₉₇
2000 AZ ₁₉₇	13.0	0.15	20000226	359.34855	220.27911	283.51409	16.75251	0.1121218	3.1038933	36	1	124 days	0.48	M-v	3	Williams	39581 2000 AZ ₁₉₇
2000 AE ₁₉₈	13.0	0.15	20000226	279.50721	51.28869	193.27639	7.88998	0.2091010	2.7744947	38	1	89 days	0.43	M-v	4	Williams	39581 2000 AE ₁₉₈
2000 AF ₁₉₈	13.3	0.15	20000226	358.32088	349.96580	152.78862	17.96285	0.0679723	2.8092302	47	1	94 days	0.46	M-v	3	Williams	39581 2000 AF ₁₉₈
2000 AG ₁₉₈	13.5	0.15	20000226	5.14645	337.41963	157.99298	14.80938	0.0702467	2.9788895	44	1	88 days	0.45	M-v	4	Williams	39581 2000 AG ₁₉₈
2000 AJ ₁₉₈	13.7	0.15	20000226	78.54636	159.24846	255.79860	8.09465	0.0746273	3.1755890	47	2	1998–2000	0.65	M-v	4	Williams	38705 2000 AJ ₁₉₈
2000 AL ₁₉₈	13.2	0.15	20000226	260.85334	84.28513	160.99102	16.50130	0.0451165	3.1258212	31	1	78 days	0.56	M-v	4	Williams	2000 AL ₁₉₈
2000 AM ₁₉₈	14.5	0.15	20000226	41.07645	226.43991	231.32447	6.42789	0.0639987	2.3100304	75	3	1996–2000	0.60	M-v	2	Williams	39581 2000 AM ₁₉₈
2000 AN ₁₉₈	15.2	0.15	20000226	278.60544	43.24912	189.01756	7.90282	0.0665208	2.3880324	39	2	1993–2000	0.64	M-v	5	Williams	39581 2000 AN ₁₉₈
2000 AO ₁₉₈	13.4	0.15	20000226	226.09274	12.80906	279.89512	14.56342	0.2369025	2.3993559	16	1	60 days	0.59	M-v	6	Williams	2000 AO ₁₉₈
2000 AR ₁₉₈	12.0	0.15	20000226	118.21660	89.77694	282.82502	16.24379	0.1615791	3.1822649	55	3	1994–2000	0.69	M-v	3	Williams	39353 2000 AR ₁₉₈
2000 AT ₁₉₈	13.9	0.15	20000226	318.10885	285.34760	275.01560	12.85753	0.1315019	2.5485741	49	1	121 days	0.66	M-v	4	Williams	2000 AT ₁₉₈
2000 AV ₁₉₈	12.9	0.15	20000226	153.17151	164.82745	187.58334	10.34825	0.0831255	3.0578507	38	2	1998–2000	0.66	M-v	4	Williams	38705 2000 AV ₁₉₈
2000 AG ₁₉₉	13.7	0.15	20000226	350.67165	343.23852	93.26542	13.84868	0.1852015	2.9802273	40	1	166 days	0.62	M-v	4	Williams	39581 2000 AG ₁₉₉
2000 AQ ₁₉₉	12.9	0.15	20000226	333.08520	324.05461	137.51438	14.37084	0.1023985	2.5554962	64	4	1960–2000	0.58	M-v	2	Williams	39353 2000 AQ ₁₉₉
2000 AT ₁₉₉	14.2	0.15	20000226	354.93425	330.01783	114.75470	15.78321	0.2244195	2.6445483	35	1	145 days	0.48	M-v	4	Williams	38884 2000 AT ₁₉₉
2000 AV ₁₉₉	13.2	0.15	20000226	30.07153	258.31146	127.63343	12.65015	0.1240509	3.1927217	14	1	88 days	0.55	M-v	6	Williams	2000 AV ₁₉₉
2000 AY ₁₉₉	13.8	0.15	20000117	302.18173	12.03404	116.62489	14.48915	0.1212512	2.6199429	22	1	29 days	0.40			Williams	2000 AY ₁₉₉
2000 AZ ₁₉₉	14.2	0.15	20000226	12.15864	253.84144	163.74919	13.08997	0.2021418	2.7523735	52	2	1994–2000	0.55	M-v	3	Williams	38706 2000 AZ ₁₉₉
2000 AA ₂₀₀	13.3	0.15	20000117	36.56088	181.41070	184.74408	17.03548	0.2305389	2.7931343	19	1	29 days	0.50			Williams	2000 AA ₂₀₀
2000 AC ₂₀₀	14.4	0.15	20000226	15.19040	270.12018	145.79865	13.93344	0.1835670	2.7391922	55	3	1994–2000	0.67	M-v	2	Williams	39354 2000 AC ₂₀₀
2000 AS ₂₀₀	13.5	0.15	20000226	5.08757	280.48722	155.92927	13.77660	0.1480048	2.6016105	55	1	183 days	0.38	M-v	3	Williams	39581 2000 AS ₂₀₀

2000 APR. 18

M.P.C. 40443

2000 AQ ₂₀₁	15.5	0.15	20000226	51.34427	293.61327	144.29358	24.22192	0.0817282	1.9659672	26	1	60 days	0.56	M-v	4	Williams	39581	2000 AQ ₂₀₁
2000 AZ ₂₀₁	12.8	0.15	20000226	12.43576	233.03794	266.27437	8.63052	0.0311419	2.9927164	72	2	1998-2000	0.68	M-v	3	Williams	39581	2000 AZ ₂₀₁
2000 AU ₂₀₂	14.6	0.15	20000226	7.05864	250.55150	257.23390	13.16610	0.1251869	2.6439791	32	1	88 days	0.61	M-v	4	Williams		2000 AU ₂₀₂
2000 AV ₂₀₂	14.0	0.15	20000226	312.21452	307.49416	276.15777	14.47469	0.1879505	2.6535030	43	1	116 days	0.57	M-v	4	Williams	39581	2000 AV ₂₀₂
2000 AW ₂₀₂	15.1	0.15	20000226	299.89698	132.39525	99.63986	8.23234	0.1927722	2.2703412	46	1	62 days	0.50	M-v	5	Williams	39581	2000 AW ₂₀₂
2000 AZ ₂₀₂	14.5	0.15	20000226	32.63220	242.39192	230.94586	12.92815	0.2040977	3.1754287	38	2	1998-2000	0.67	M-v	3	Williams	39354	2000 AZ ₂₀₂
2000 AE ₂₀₃	13.5	0.15	20000226	15.90757	232.86334	274.44551	12.77757	0.0670513	2.8699863	51	2	1998-2000	0.69	M-v	3	Williams	39354	2000 AE ₂₀₃
2000 AG ₂₀₃	14.7	0.15	20000226	344.06420	0.63844	188.76160	13.42057	0.2087427	2.6643450	46	1	89 days	0.58	M-v	4	Williams		2000 AG ₂₀₃
2000 AH ₂₀₃	13.7	0.15	20000226	251.95236	31.16974	259.53490	12.47789	0.1578135	2.5500659	17	1	89 days	0.52	M-v	6	Williams		2000 AH ₂₀₃
2000 AJ ₂₀₃	13.2	0.15	20000226	340.30129	281.75342	275.34501	9.21186	0.2067433	3.0034751	55	3	1983-2000	0.60	M-v	3	Williams	39581	2000 AJ ₂₀₃
2000 AK ₂₀₃	12.8	0.15	20000226	111.32329	116.60505	283.30913	10.82899	0.1738835	2.6554442	67	3	1993-2000	0.62	M-v	2	Williams	39581	2000 AK ₂₀₃
2000 AO ₂₀₃	12.3	0.15	20000226	123.57001	150.52720	247.61808	9.12885	0.1297490	2.4513679	34	1	153 days	0.53	M-v	4	Williams		2000 AO ₂₀₃
2000 AR ₂₀₃	13.0	0.15	20000226	309.59011	305.71405	292.34787	10.69190	0.1234263	2.6904224	46	3	1987-2000	0.55	M-v	3	Williams	39354	2000 AR ₂₀₃
2000 AV ₂₀₃	13.9	0.15	20000226	350.44742	244.75388	303.77069	13.07662	0.0338058	2.6226851	44	4	1987-2000	0.67	M-v	1	Williams	39355	2000 AV ₂₀₃
2000 AY ₂₀₃	12.9	0.15	20000226	112.60640	137.20004	273.98278	8.58934	0.0463634	2.5702090	45	1	119 days	0.59	M-v	4	Williams	39581	2000 AY ₂₀₃
2000 AZ ₂₀₃	13.4	0.15	20000226	4.43617	217.09076	307.14214	13.97755	0.0709091	2.6167651	61	2	1997-2000	0.59	M-v	3	Williams	39581	2000 AZ ₂₀₃
2000 AB ₂₀₄	14.0	0.15	20000226	102.08556	214.38219	175.12959	10.52804	0.1172993	2.9696000	23	1	77 days	0.58	M-v	5	Williams		2000 AB ₂₀₄
2000 AD ₂₀₄	14.7	0.15	20000226	348.07188	208.60757	305.47495	7.65978	0.1144580	2.5783348	65	2	1993-2000	0.58	M-v	3	Williams	39581	2000 AD ₂₀₄
2000 AF ₂₀₄	13.5	0.15	20000226	10.01394	55.15374	92.43387	11.09601	0.1351960	2.6947617	37	1	118 days	0.63	M-v	4 D	Williams		2000 AF ₂₀₄
2000 AN ₂₀₄	13.4	0.15	20000226	42.04108	238.29751	190.09815	12.72445	0.1516430	2.5686237	53	3	1990-2000	0.61	M-v	2	Williams	39581	2000 AN ₂₀₄
2000 AR ₂₀₄	14.2	0.15	20000226	34.61914	271.09646	160.92406	15.41858	0.2700769	2.8592228	35	1	149 days	0.44	M-v	4	Williams	39581	2000 AR ₂₀₄
2000 AY ₂₀₄	12.5	0.15	20000226	339.01207	330.39097	168.87773	17.32779	0.0530734	3.2201445	51	4	1995-2000	0.65	M-v	2	Williams	38707	2000 AY ₂₀₄
2000 AA ₂₀₅	12.5	0.15	20000226	89.21609	33.18457	356.51339	11.00932	0.0899146	3.0289498	62	2	1998-2000	0.60	M-v	3	Williams	39581	2000 AA ₂₀₅
2000 AC ₂₀₅	12.9	0.15	20000226	229.34184	299.37810	35.70469	23.60326	0.2729392	2.3307658	33	1	91 days	0.41	M-v	5	Williams		2000 AC ₂₀₅
2000 AS ₂₀₅	15.2	0.15	20000117	351.14788	6.88592	119.41569	6.65274	0.0599769	2.5547698	27	1	37 days	0.63			Williams		2000 AS ₂₀₅
2000 AD ₂₀₉	15.3	0.15	20000226	25.58311	350.01590	118.59430	4.38058	0.0955568	2.3707632	83	1	88 days	0.53	M-v	4	Williams	39582	2000 AD ₂₀₉
2000 AG ₂₁₂	14.5	0.15	20000226	121.59418	66.28005	308.76540	1.61252	0.1953550	2.7303066	32	1	85 days	0.52	M-v	4	Williams	39582	2000 AG ₂₁₂
2000 AJ ₂₁₂	15.1	0.15	20000226	187.03709	8.40952	320.44453	5.25270	0.2220338	2.1986349	32	1	66 days	0.60	M-v	5	Williams	39582	2000 AJ ₂₁₂
2000 AK ₂₁₂	15.4	0.15	20000226	241.22227	321.67850	321.36359	6.40544	0.1035844	2.3105427	27	1	87 days	0.46	M-v	4	Williams	39582	2000 AK ₂₁₂
2000 AM ₂₁₂	16.2	0.15	20000226	19.17776	352.11710	137.84338	3.19755	0.1606230	2.4200061	49	1	66 days	0.56	M-v	5	Williams	39582	2000 AM ₂₁₂
2000 AA ₂₁₄	15.8	0.15	20000226	38.00515	330.82252	109.82608	15.11835	0.1302038	2.5938087	20	2	1997-2000	0.30	M-v	4	Williams	38708	2000 AA ₂₁₄
2000 AF ₂₁₄	14.1	0.15	20000226	154.74176	215.09801	110.41901	11.65466	0.1034196	2.9626123	35	3	1997-2000	0.54	M-v	3	Williams	38708	2000 AF ₂₁₄
2000 AH ₂₁₄	13.1	0.15	20000226	194.95664	109.98712	191.79322	1.42707	0.1438218	3.1538995	34	3	1996-2000	0.63	M-v	3	Williams	38708	2000 AH ₂₁₄
2000 AK ₂₁₅	15.3	0.15	20000226	358.77292	18.84943	111.40652	6.46456	0.0946719	2.2671386	41	1	86 days	0.43	M-v	4	Williams	38885	2000 AK ₂₁₅
2000 AR ₂₁₅	15.2	0.15	19991228	69.88483	281.56690	110.97121	6.53095	0.0856799	2.7289951	9	1	6 days	0.43			E Williams		2000 AR ₂₁₅
2000 AW ₂₁₅	13.8	0.15	20000226	77.65705	242.46558	179.66643	1.98394	0.0992675	2.9460595	56	3	1978-2000	0.55	M-v	3	Williams	39582	2000 AW ₂₁₅
2000 AA ₂₁₆	14.5	0.15	20000226	230.15321	338.74892	315.00238	5.61341	0.1541413	2.4175869	46	3	1960-2000	0.67	M-v	4	Williams	39582	2000 AA ₂₁₆
2000 AJ ₂₁₈	15.0	0.15	20000226	326.86504	204.36328	314.57993	2.51929	0.0286882	2.7107642	25	2	1998-2000	0.67	M-v	5	Williams	38709	2000 AJ ₂₁₈
2000 AH ₂₁₉	15.1	0.15	19991228	238.05791	282.89824	314.18021	3.81218	0.0338135	2.7062438	12	1	5 days	0.53			E Williams		2000 AH ₂₁₉
2000 AO ₂₂₀	14.9	0.15	19991228	235.82630	301.39955	307.17935	8.05953	0.1287349	2.4095138	9	1	5 days	0.19			E Williams		2000 AO ₂₂₀
2000 AD ₂₂₂	15.0	0.15	20000226	241.59086	343.50148	295.55979	2.41808	0.0962139	2.7320164	25	1	82 days	0.55	M-v	5	Williams		2000 AD ₂₂₂
2000 AF ₂₂₂	13.2	0.15	20000226	19.86725	193.57265	296.40347	2.08034	0.0524263	3.1068785	103	2	1998-2000	0.55	M-v	3	Williams	39582	2000 AF ₂₂₂
2000 AU ₂₂₆	14.2	0.15	20000226	108.51309	88.80022	287.26326	2.11806	0.1004451	2.8121206	42	2	1998-2000	0.63	M-v	5	Williams	39582	2000 AU ₂₂₆
2000 AF ₂₂₇	13.3	0.15	20000226	326.48876	234.14511	319.96529	4.12620	0.1107505	3.1160997	92	1	115 days	0.44	M-v	4	Williams	39582	2000 AF ₂₂₇
2000 AO ₂₂₇	14.8	0.15	20000226	342.99032	205.17109	325.46902	3.54560	0.0089459	2.7862036	38	1	80 days	0.54	M-v	5	Williams	39582	2000 AO ₂₂₇
2000 AQ ₂₂₇	14.5	0.15	20000226	261.60898	293.42373	332.95470	3.66356	0.1225325	3.1998357	48	2	1997-2000	0.46	M-v	3	Williams	39356	2000 AQ ₂₂₇
2000 AT ₂₂₇	16.7	0.15	20000226	343.63861	212.60166	324.29018	4.49902	0.1454148	2.3866955	21	1	61 days	0.41	M-v	4	Williams	39582	2000 AT ₂₂₇
2000 AQ ₂₂₈	14.0	0.15	20000226	53.17193	138.91207	222.64669	4.35176	0.2337884	2.3411709	84	2	1998-2000	0.51	M-v	3	Williams	39356	2000 AQ ₂₂₈
2000 AA ₂₂₉	12.2	0.15	20000226	237.92523	67.05303	147.54541	16.07891	0.0706135	3.0361920	54	2	1998-2000	0.47	M-v	3	Williams	39356	2000 AA ₂₂₉
2000 AF ₂₂₉	13.4	0.15	20000226	339.23539	166.23221	293.17144	14.63507	0.2023396	2.7977790	56	3	1995-2000	0.53	M-v	2	Williams	38710	2000 AF ₂₂₉
2000 AP ₂₃₀	14.4	0.15	20000226	334.41582	189.56298	342.90871	9.75009	0.1122557	2.7954703	57	1	90 days	0.50	M-v	4	Williams	39582	2000 AP ₂₃₀
2000 AS ₂₃₀	14.8	0.15	20000226	74.43281	272.10858	138.95994	4.56650	0.0932022	2.7821984	33	2	1998-2000	0.75	M-v	4	Williams	38710	2000 AS ₂₃₀
2000 AY ₂₃₀	15.7	0.15	20000226	47.47172	242.70823	141.17047	6.62897	0.2911450	2.3748968	51	1	115 days	0.50	M-v	4	Williams	38886	2000 AY ₂₃₀

2000 AC ₂₃₁	14.4	0.15	20000226	14.68743	331.97892	143.18574	13.27544	0.1705703	2.5594472	55	4	1992-2000	0.61	M-v	2	Williams	39582	2000 AC ₂₃₁
2000 AV ₂₃₁	15.8	0.15	20000117	12.28224	170.12779	291.53567	2.11876	0.0811703	2.2745227	19	1	30 days	0.50			Williams		2000 AV ₂₃₁
2000 AA ₂₃₂	14.1	0.15	20000117	202.80406	167.37023	121.01147	8.24826	0.2256402	2.5521422	30	1	39 days	0.41			Williams		2000 AA ₂₃₂
2000 AO ₂₃₂	15.3	0.15	20000117	13.37569	346.39419	123.00098	3.80382	0.0668945	2.6376332	16	1	38 days	0.54			Williams		2000 AO ₂₃₂
2000 AP ₂₃₂	15.3	0.15	20000226	327.22794	218.66186	313.03286	5.81841	0.0514183	2.2851065	48	2	1998-2000	0.64	M-v	4	Williams	38711	2000 AP ₂₃₂
2000 AC ₂₃₃	15.6	0.15	20000226	340.09006	170.27106	358.08920	5.25845	0.1292931	2.3625329	44	2	1982-2000	0.57	M-v	4	Williams	39582	2000 AC ₂₃₃
2000 AD ₂₃₃	15.0	0.15	20000226	355.07807	92.30880	58.04286	3.45171	0.1163785	2.4102200	76	1	99 days	0.49	M-v	3	Williams	39582	2000 AD ₂₃₃
2000 AJ ₂₃₃	14.4	0.15	20000226	43.79819	67.31263	33.43565	5.87585	0.1428558	2.5505582	77	2	1998-2000	0.69	M-v	3	Williams	39357	2000 AJ ₂₃₃
2000 AK ₂₃₃	12.8	0.15	20000226	125.17867	253.75884	132.87678	11.47854	0.1680632	2.6662752	43	1	91 days	0.49	M-v	4	Williams	39583	2000 AK ₂₃₃
2000 AM ₂₃₃	15.0	0.15	20000226	336.37244	102.33174	96.22341	3.40878	0.1426495	2.3940185	38	1	97 days	0.51	M-v	4	Williams		2000 AM ₂₃₃
2000 AO ₂₃₃	14.7	0.15	20000226	357.38763	178.96069	350.96483	12.00071	0.1827323	2.6101014	59	1	97 days	0.44	M-v	3	Williams	39583	2000 AO ₂₃₃
2000 AP ₂₃₃	15.4	0.15	20000226	357.36755	25.67139	131.71788	2.77723	0.0702706	2.1671202	60	3	1997-2000	0.62	M-v	3	Williams	39583	2000 AP ₂₃₃
2000 AU ₂₃₃	15.2	0.15	20000226	60.47014	261.69548	103.43487	7.44858	0.1465531	2.3221982	13	1	86 days	0.56	M-v	5	Williams		2000 AU ₂₃₃
2000 AN ₂₃₅	15.5	0.15	20000117	320.44705	238.79686	288.82599	3.90354	0.1311333	2.4696565	19	1	29 days	0.36			Williams		2000 AN ₂₃₅
2000 AY ₂₃₅	15.1	0.15	20000117	170.61455	200.79546	109.88513	7.06064	0.1650426	2.3220095	19	1	50 days	0.80			Williams		2000 AY ₂₃₅
2000 AG ₂₃₆	14.6	0.15	20000226	10.34979	209.83305	275.87693	11.60563	0.1307214	2.7301339	37	1	110 days	0.67	M-v	4	Williams	39583	2000 AG ₂₃₆
2000 AH ₂₃₆	14.8	0.15	20000226	37.52800	288.28388	161.76733	13.23587	0.1327513	2.6518892	36	2	1998-2000	0.61	M-v	3	Williams	39357	2000 AH ₂₃₆
2000 AK ₂₃₆	15.4	0.15	20000226	57.43469	101.75462	301.32023	1.97614	0.3053305	2.6281035	33	2	1990-2000	0.58	M-v	4	Williams	38712	2000 AK ₂₃₆
2000 AO ₂₃₆	13.8	0.15	20000226	317.50530	342.55276	250.28020	5.84576	0.3215103	2.6662600	54	4	1992-2000	0.50	M-v	3	Williams	39357	2000 AO ₂₃₆
2000 AQ ₂₃₆	13.2	0.15	20000226	66.69991	142.61377	303.41236	15.08385	0.0551552	3.1564019	56	3	1991-2000	0.58	M-v	3	Williams	39583	2000 AQ ₂₃₆
2000 AS ₂₃₆	13.2	0.15	20000226	92.67556	108.10902	300.58565	12.58695	0.1471713	2.7067360	76	3	1995-2000	0.62	M-v	2	Williams	39358	2000 AS ₂₃₆
2000 AT ₂₃₆	14.6	0.15	20000226	359.25955	264.96481	254.23378	4.93932	0.0950025	2.2800871	68	3	1995-2000	0.69	M-v	3	Williams	39583	2000 AT ₂₃₆
2000 AU ₂₃₆	14.6	0.15	20000226	7.82598	236.22142	273.44034	6.32212	0.0536302	2.3452463	57	2	1998-2000	0.57	M-v	3	Williams	39583	2000 AU ₂₃₆
2000 AV ₂₃₆	13.3	0.15	20000226	175.89281	93.55213	246.56445	4.96978	0.1568295	2.3951847	66	3	1979-2000	0.52	M-v	3	Williams	39583	2000 AV ₂₃₆
2000 AZ ₂₃₆	13.7	0.15	20000226	274.51739	112.86476	150.64997	6.57912	0.1721251	2.2398255	94	5	1980-2000	0.46	M-v	1	Williams	39358	2000 AZ ₂₃₆
2000 AA ₂₃₇	15.0	0.15	20000226	353.96839	262.83683	268.58198	5.72482	0.1347100	2.2268255	45	1	93 days	0.78	M-v	4	Williams	39583	2000 AA ₂₃₇
2000 AD ₂₃₇	13.4	0.15	20000226	271.10319	331.42719	300.60645	12.47669	0.1582205	2.6561146	38	2	1998-2000	0.63	M-v	3	Williams	39358	2000 AD ₂₃₇
2000 AF ₂₃₇	12.9	0.15	20000226	359.39482	348.29087	177.15331	12.76730	0.0987453	2.7518214	58	1	111 days	0.67	M-v	3	Williams	39583	2000 AF ₂₃₇
2000 AH ₂₃₇	13.3	0.15	20000226	96.90305	142.31947	278.40076	5.98969	0.0627833	2.5233016	60	2	1998-2000	0.78	M-v	3	Williams	39359	2000 AH ₂₃₇
2000 AJ ₂₃₇	12.9	0.15	20000226	33.27772	186.89560	301.44439	9.16274	0.0674859	3.1501061	56	2	1998-2000	0.64	M-v	3	Williams	39583	2000 AJ ₂₃₇
2000 AL ₂₃₇	13.2	0.15	20000226	1.28770	359.77426	163.90319	13.08424	0.0984653	2.5675633	89	1	116 days	0.49	M-v	3	Williams	39583	2000 AL ₂₃₇
2000 AN ₂₃₇	14.1	0.15	20000226	31.10212	342.64101	128.07297	10.30288	0.1773131	2.7549095	50	1	97 days	0.46	M-v	4	Williams	39583	2000 AN ₂₃₇
2000 AO ₂₃₇	13.1	0.15	20000226	279.87307	275.75192	331.99427	14.22199	0.1169952	2.5964473	112	4	1993-2000	0.64	M-v	2	Williams	39583	2000 AO ₂₃₇
2000 AP ₂₃₇	12.9	0.15	20000226	110.92120	226.63050	154.56980	13.42366	0.1919369	2.9175169	51	1	119 days	0.40	M-v	4	Williams	39583	2000 AP ₂₃₇
2000 AQ ₂₃₇	13.8	0.15	20000226	314.80586	44.97544	186.42113	1.99301	0.1801807	2.3842910	98	2	1998-2000	0.52	M-v	3	Williams	39359	2000 AQ ₂₃₇
2000 AR ₂₃₇	13.2	0.15	20000226	83.92638	93.74551	333.67079	12.51940	0.1573644	2.6130944	82	3	1987-2000	0.60	M-v	2	Williams	39583	2000 AR ₂₃₇
2000 AS ₂₃₇	13.2	0.15	20000226	330.59474	251.42331	328.23212	10.39385	0.2154104	3.0455284	27	1	94 days	0.58	M-v	4	Williams	39583	2000 AS ₂₃₇
2000 AT ₂₃₇	12.7	0.15	20000226	318.33380	48.48022	170.11013	12.07947	0.0317336	3.0598162	64	1	96 days	0.63	M-v	4	Williams	39583	2000 AT ₂₃₇
2000 AW ₂₃₇	14.4	0.15	20000226	258.21248	317.30090	302.36581	4.05044	0.1595197	2.6084882	41	2	1993-2000	0.66	M-v	4	Williams	39583	2000 AW ₂₃₇
2000 AQ ₂₃₈	14.6	0.15	20000226	42.89557	14.09125	74.68955	3.63433	0.2024080	2.3817245	56	1	99 days	0.53	M-v	4	Williams	39583	2000 AQ ₂₃₈
2000 AR ₂₃₈	14.0	0.15	20000117	48.54419	120.56423	295.13254	12.47168	0.1448189	3.0976373	29	1	28 days	0.42			Williams		2000 AR ₂₃₈
2000 AZ ₂₃₈	15.8	0.15	20000117	54.90174	293.37613	115.08645	8.07127	0.1317837	2.3204576	21	1	36 days	0.94			Williams		2000 AZ ₂₃₈
2000 AE ₂₃₉	14.6	0.15	20000226	170.46093	20.41469	292.61041	4.25559	0.1744983	2.2074315	30	2	1998-2000	0.61	M-v	4	Williams	39359	2000 AE ₂₃₉
2000 AS ₂₃₉	13.6	0.15	20000226	339.57733	91.90369	99.96842	12.24421	0.2098764	2.6587396	34	1	137 days	0.56	M-v	4	Williams	39583	2000 AS ₂₃₉
2000 AW ₂₃₉	13.7	0.15	20000117	113.93698	75.88841	297.97386	14.57408	0.1926159	2.5909794	17	1	33 days	0.59			Williams		2000 AW ₂₃₉
2000 AZ ₂₃₉	13.8	0.15	20000226	293.11820	244.72874	358.56947	4.83241	0.0800858	2.4487186	74	1	95 days	0.48	M-v	4	Williams	39583	2000 AZ ₂₃₉
2000 AB ₂₄₀	15.1	0.15	20000226	31.58869	329.63682	145.86156	8.24839	0.2082123	2.3759173	40	1	88 days	0.55	M-v	4	Williams	39583	2000 AB ₂₄₀
2000 AD ₂₄₀	13.7	0.15	20000226	319.22760	243.42003	331.27327	7.39512	0.0718148	2.6108808	63	1	95 days	0.58	M-v	4	Williams	39583	2000 AD ₂₄₀
2000 AE ₂₄₀	14.6	0.15	20000226	351.91410	212.75540	325.09948	5.47695	0.0902378	2.2898363	53	2	1998-2000	0.54	M-v	3	Williams	39360	2000 AE ₂₄₀
2000 AD ₂₄₁	13.9	0.15	20000226	28.83573	236.38435	178.95115	14.88193	0.1220519	2.6440007	45	1	147 days	0.57	M-v	3	Williams		2000 AD ₂₄₁
2000 AX ₂₄₁	15.0	0.15	20000226	2.72562	330.87729	167.33815	14.44266	0.1419314	2.5705276	37	2	1998-2000	0.77	M-v	3	Williams	39583	2000 AX ₂₄₁
2000 AB ₂₄₂	13.6	0.15	20000226	303.69205	0.50018	217.41903	10.67374	0.1569560	2.9842629	38	1	102 days	0.64	M-v	4	Williams	39583	2000 AB ₂₄₂
2000 AG ₂₄₂	14.2	0.15	20000226	7.75427	231.98901	261.83854	14.79396	0.2124801	3.1045446	20	1	61 days	0.55	M-v	4	Williams		2000 AG ₂₄₂

2000 APR. 18

M.P.C. 40445

2000 AN ₂₄₂	13.4	0.15	20000226	138.66112	17.57903	351.15875	12.52526	0.0408368	2.7438140	52	3	1993–2000	0.62	M-v	3	Williams	39583	2000 AN ₂₄₂
2000 AR ₂₄₂	13.0	0.15	20000226	291.18189	126.11416	122.46932	9.57291	0.2347273	2.7595870	69	1	138 days	0.48	M-v	4	Williams	39583	2000 AR ₂₄₂
2000 AS ₂₄₂	13.0	0.15	20000226	291.00495	92.77735	144.15384	13.63597	0.1202004	3.1602998	95	4	1979–2000	0.60	M-v	1	Williams	39583	2000 AS ₂₄₂
2000 AU ₂₄₂	13.4	0.15	20000226	348.77370	335.89137	208.23076	9.46054	0.4883885	4.8003349	116	1	92 days	0.53	M-v	3	Marsden	39583	2000 AU ₂₄₂
2000 AC ₂₄₃	14.1	0.15	20000226	358.89471	311.49352	206.53936	7.75655	0.2211809	2.7422535	56	1	116 days	0.49	M-v	3	Williams	39583	2000 AC ₂₄₃
2000 AD ₂₄₃	13.8	0.15	20000226	7.12680	237.35912	266.37351	10.52911	0.1197239	2.5825170	38	1	112 days	0.46	M-v	3	Williams	39583	2000 AD ₂₄₃
2000 AE ₂₄₃	12.1	0.15	20000226	230.91573	66.64250	220.15953	9.13311	0.0790257	2.9877228	45	1	113 days	0.58	M-v	4	Williams	39583	2000 AE ₂₄₃
2000 AG ₂₄₃	15.3	0.15	20000226	48.39650	303.59164	142.92148	26.36032	0.1691421	1.9255872	69	2	1984–2000	0.45	M-v	3	Williams	39583	2000 AG ₂₄₃
2000 AH ₂₄₃	14.8	0.15	20000226	13.27810	229.32669	266.36315	9.72667	0.1603322	2.6188558	45	1	121 days	0.52	M-v	3	Williams	39583	2000 AH ₂₄₃
2000 AK ₂₄₃	12.5	0.15	20000226	22.26596	281.44636	199.73991	10.72405	0.1223414	3.1834375	34	1	113 days	0.58	M-v	4	Williams	39583	2000 AK ₂₄₃
2000 AM ₂₄₃	11.9	0.15	20000226	133.78240	182.61681	184.02541	16.98644	0.0612501	3.1449797	30	1	89 days	0.46	M-v	4	Williams		2000 AM ₂₄₃
2000 AO ₂₄₃	15.5	0.15	20000226	357.86719	125.87151	35.29896	4.05866	0.1305239	2.2307730	48	1	87 days	0.43	M-v	4	Williams	39583	2000 AO ₂₄₃
2000 AP ₂₄₃	12.1	0.15	20000226	127.26446	269.61424	118.59034	8.86871	0.0431392	3.1631010	57	1	121 days	0.59	M-v	4	Williams	39583	2000 AP ₂₄₃
2000 AQ ₂₄₃	13.6	0.15	20000226	46.16014	328.86919	129.22840	18.27804	0.1677098	3.1226715	31	1	89 days	0.64	M-v	4	Williams		2000 AQ ₂₄₃
2000 AR ₂₄₃	13.9	0.15	20000226	83.68405	303.87822	114.98625	11.67790	0.1580701	2.5840524	29	1	86 days	0.42	M-v	4	Williams		2000 AR ₂₄₃
2000 AT ₂₄₃	13.5	0.15	20000226	332.39413	93.49717	104.90732	11.02308	0.1436577	2.6772570	25	1	86 days	0.43	M-v	4	Williams		2000 AT ₂₄₃
2000 AV ₂₄₃	13.9	0.15	20000226	308.81122	240.19500	356.05027	11.83989	0.2164767	2.6846340	56	4	1988–2000	0.62	M-v	2	Williams	39583	2000 AV ₂₄₃
2000 AW ₂₄₃	14.6	0.15	20000226	12.69932	24.27175	122.33345	11.73799	0.1945782	2.5337294	40	1	92 days	0.47	M-v	4	Williams	39583	2000 AW ₂₄₃
2000 AA ₂₄₄	14.6	0.15	20000226	24.38402	80.37094	49.51857	6.97985	0.1251930	2.2374774	55	3	1987–2000	0.60	M-v	4	Williams	39583	2000 AA ₂₄₄
2000 AK ₂₄₄	14.3	0.15	20000226	57.55075	166.70106	220.50119	21.27900	0.0723232	2.6414462	21	1	93 days	0.60	M-v	6	Williams		2000 AK ₂₄₄
2000 AX ₂₄₄	14.5	0.15	20000226	35.78310	267.31407	197.48096	3.64606	0.1052948	2.4755057	62	2	1998–2000	0.62	M-v	3	Williams	39583	2000 AX ₂₄₄
2000 AZ ₂₄₄	14.2	0.15	20000226	43.70678	311.28452	144.92597	12.40647	0.2185649	2.6608552	50	1	87 days	0.50	M-v	4	Williams	39583	2000 AZ ₂₄₄
2000 AK ₂₄₅	13.1	0.15	20000226	21.14459	245.99337	186.73945	15.11133	0.1689179	2.5725279	52	3	1992–2000	0.65	M-v	2	Williams	39583	2000 AK ₂₄₅
2000 AO ₂₄₅	13.1	0.15	20000226	355.52127	268.25880	264.33735	8.28275	0.1209458	2.8981941	52	3	1985–2000	0.81	M-v	3	Williams	39584	2000 AO ₂₄₅
2000 AB ₂₄₆	17.5	0.15	20000226	31.12849	311.61722	29.80180	3.74880	0.4943561	2.3045934	28	1	90 days	0.33	M-v	5	Williams	39584	2000 AB ₂₄₆
2000 AJ ₂₄₆	12.6	0.15	20000226	52.86762	102.92346	10.09188	15.39888	0.1391399	2.6114314	90	3	1987–2000	0.62	M-v	1	Williams	39361	2000 AJ ₂₄₆
2000 AL ₂₄₆	15.3	0.15	20000226	12.05175	184.10710	284.53157	11.87286	0.2061413	2.7624528	19	1	60 days	0.63	M-v	5	Marsden		2000 AL ₂₄₆
2000 BC	14.1	0.15	20000226	333.61925	66.10633	131.34465	6.21242	0.0997575	2.6184310	48	1	90 days	0.49	M-v	4	Williams	39584	2000 BC
2000 BE	15.5	0.15	20000117	324.33816	227.84351	300.31508	6.83758	0.1361443	2.5591836	29	1	26 days	1.29			Williams		2000 BE
2000 BO	15.5	0.15	20000226	44.88157	303.44231	129.65588	14.33359	0.2560590	2.6712505	60	1	61 days	0.66	M-v	4	Williams	39584	2000 BO
2000 BD ₁	14.9	0.15	20000226	38.45201	286.30670	170.70739	27.09473	0.2666912	1.9688050	56	1	94 days	0.51	M-v	4	Williams	39584	2000 BD ₁
2000 BA ₂	15.2	0.15	20000206	291.52270	1.34002	231.97714	0.28723	0.2208594	3.0429542	12	1	44 days	0.47			Williams		2000 BA ₂
2000 BF ₂	13.5	0.15	20000226	254.28281	189.99589	71.25329	2.02169	0.1465501	3.1730279	50	6	1989–2000	0.69	M-v	1	Williams	39584	2000 BF ₂
2000 BG ₂	15.6	0.15	20000226	353.73661	201.64483	313.82210	3.11649	0.1745453	2.3352701	46	1	73 days	0.48	M-v	4	Williams		2000 BG ₂
2000 BC ₃	15.8	0.15	20000226	84.96301	342.09760	65.21017	2.28104	0.0966113	2.2377374	43	2	1995–2000	0.67	M-v	5	Williams	39584	2000 BC ₃
2000 BD ₃	15.1	0.15	20000226	314.19080	181.14559	21.78830	2.48911	0.1414801	2.4228756	48	1	82 days	0.49	M-v	4	Williams	39584	2000 BD ₃
2000 BF ₃	15.1	0.15	20000226	300.53474	263.25536	313.31273	1.95819	0.1157035	2.3927955	65	2	1998–2000	0.49	M-v	4	Williams	39584	2000 BF ₃
2000 BK ₃	14.0	0.15	20000226	281.89517	229.06796	347.93902	12.80472	0.0125885	2.6698916	29	1	69 days	0.77	M-v	5	Williams	39584	2000 BK ₃
2000 BM ₃	14.4	0.15	20000226	7.18794	167.83228	328.67873	8.46292	0.1377160	2.6621127	101	1	144 days	0.55	M-v	3	Williams	39584	2000 BM ₃
2000 BP ₃	12.8	0.15	20000226	325.32501	123.25612	68.37214	2.67301	0.0996706	3.1513535	83	3	1989–2000	0.74	M-v	3	Williams	39584	2000 BP ₃
2000 BQ ₃	13.8	0.15	20000226	49.31382	337.98239	115.88316	5.63706	0.0706870	2.7976001	98	3	1981–2000	0.62	M-v	2	Williams	39584	2000 BQ ₃
2000 BR ₃	14.6	0.15	20000226	30.16139	112.26465	356.42089	3.44971	0.1253114	2.3066949	93	3	1995–2000	0.66	M-v	2	Williams	39584	2000 BR ₃
2000 BS ₃	14.5	0.15	20000226	344.58258	116.67922	52.79243	2.95852	0.1602134	2.3896247	61	3	1976–2000	0.61	M-v	3	Williams	39584	2000 BS ₃
2000 BT ₃	13.4	0.15	20000226	271.45324	131.27509	112.49585	8.85564	0.0445279	2.7702106	54	1	117 days	0.57	M-v	5	Williams	39584	2000 BT ₃
2000 BV ₃	12.6	0.15	20000226	105.04161	285.91829	114.04259	9.78928	0.0499836	2.7825323	104	5	1989–2000	0.65	M-v	2	Williams	39584	2000 BV ₃
2000 BX ₃	13.3	0.15	20000226	10.14134	145.49616	351.06696	12.80815	0.1237244	2.6713566	81	2	1998–2000	0.54	M-v	3	Williams	39584	2000 BX ₃
2000 BY ₃	14.0	0.15	20000226	4.18332	88.98344	72.45644	12.70446	0.1354638	2.5433670	107	3	1978–2000	0.46	M-v	2	Williams	39584	2000 BY ₃
2000 BA ₄	13.9	0.15	20000226	113.47494	61.44755	333.10267	10.61643	0.0307262	3.0819998	55	1	68 days	0.72	M-v	5	Williams		2000 BA ₄
2000 BB ₄	13.3	0.15	20000226	127.97543	234.25331	142.50257	10.48571	0.1603597	2.9837075	48	3	1992–2000	0.73	M-v	4	Williams	39584	2000 BB ₄
2000 BE ₅	16.2	0.15	19991228	22.23418	339.10263	103.28871	4.39828	0.1284070	2.2467902	41	1	55 days	0.45			Williams		2000 BE ₅
2000 BX ₆	12.2	0.15	20000226	183.15121	267.22890	24.84898	17.49870	0.1507750	3.1247764	35	1	104 days	0.44	M-v	4	Williams		2000 BX ₆
2000 BY ₆	13.6	0.15	20000226	315.31539	169.02136	11.05842	14.85336	0.1205097	2.7195469	42	1	115 days	0.52	M-v	4	Williams		2000 BY ₆
2000 BM ₇	16.0	0.15	20000117	282.40957	96.75032	107.01002	6.73060	0.0600562	2.3851995	32	1	38 days	0.62			Williams		2000 BM ₇

2000 BZ ₈	12.6	0.15	20000206	260.60119	157.93496	85.13615	16.62548	0.0512058	3.1540437	21	1	43 days	0.38	Williams		2000 BZ ₈
2000 BS ₉	14.7	0.15	20000226	282.60197	95.52643	137.96802	5.03079	0.1449252	2.5335752	59	3	1996–2000	0.57	M-v	4	Williams 39584 2000 BS ₉
2000 BB ₁₀	15.0	0.15	20000226	157.51370	198.65037	135.91818	2.31130	0.1691472	3.1885377	20	2	1994–2000	0.28	M-v	5	Williams 39361 2000 BB ₁₀
2000 BK ₁₀	15.2	0.15	20000226	84.52259	275.76576	132.29961	5.94277	0.0711468	2.9192317	23	2	1993–2000	0.39	M-v	6	Williams 39362 2000 BK ₁₀
2000 BV ₁₀	14.5	0.15	20000226	254.71771	339.14455	300.38124	1.89756	0.1532350	2.3991949	45	2	1994–2000	0.53	M-v	4	Williams 39362 2000 BV ₁₀
2000 BR ₁₂	15.8	0.15	20000206	308.52259	173.62380	27.93928	0.78513	0.0995208	3.1738846	24	1	35 days	0.31			Williams 2000 BR ₁₂
2000 BE ₁₃	14.8	0.15	20000226	323.12961	213.07631	340.22387	2.64908	0.1208843	2.3966262	91	1	116 days	0.49	M-v	4	Williams 39585 2000 BE ₁₃
2000 BH ₁₃	14.7	0.15	20000226	47.39405	297.09894	139.93642	1.81619	0.1497529	3.1531104	41	2	1998–2000	0.60	M-v	4	Williams 39585 2000 BH ₁₃
2000 BO ₁₃	16.8	0.15	20000226	352.02412	194.67851	318.11251	3.94113	0.2405866	2.4212823	36	1	68 days	0.42	M-v	4	Williams 39585 2000 BO ₁₃
2000 BX ₁₃	16.1	0.15	20000226	253.88357	309.14721	325.47874	5.81652	0.0934365	2.3351634	29	1	58 days	0.58			Williams 2000 BX ₁₃
2000 BZ ₁₃	14.9	0.15	20000226	334.50411	99.80725	81.27507	3.19823	0.1443692	2.3696709	55	2	1991–2000	0.61	M-v	4	Williams 39585 2000 BZ ₁₃
2000 BA ₁₄	15.3	0.15	20000226	332.09376	148.28164	35.01877	1.20312	0.1596520	2.3756252	55	1	89 days	0.52	M-v	4	Williams 39585 2000 BA ₁₄
2000 BC ₁₄	13.7	0.15	20000226	170.14613	208.76392	121.85260	6.30246	0.1053807	2.4772715	72	3	1990–2000	0.55	M-v	3	Williams 39585 2000 BC ₁₄
2000 BD ₁₄	14.4	0.15	20000226	248.92218	297.47802	331.81124	7.24861	0.1613901	2.5286619	51	1	82 days	0.53	M-v	4	Williams 39585 2000 BD ₁₄
2000 BE ₁₄	14.0	0.15	20000226	305.43283	88.43561	129.28522	14.15226	0.1054961	2.5672277	58	1	98 days	0.55	M-v	4	Williams 39585 2000 BE ₁₄
2000 BJ ₁₄	12.3	0.15	20000226	255.08741	275.18192	357.16564	12.43944	0.1614097	3.0481279	90	5	1991–2000	0.65	M-v	1	Williams 39585 2000 BJ ₁₄
2000 BO ₁₄	13.2	0.15	20000226	306.45509	172.40954	44.61170	7.24700	0.1017713	3.1454702	48	3	1997–2000	0.66	M-v	3	Williams 39585 2000 BO ₁₄
2000 BQ ₁₄	12.8	0.15	20000226	15.59383	59.88987	77.96362	17.29967	0.2737733	3.1103692	42	1	96 days	0.51	M-v	4	Williams 39585 2000 BQ ₁₄
2000 BR ₁₄	12.3	0.15	20000226	183.76107	327.92473	3.02908	9.82346	0.0985352	3.0527911	80	3	1995–2000	0.60	M-v	3	Williams 39585 2000 BR ₁₄
2000 BS ₁₄	14.0	0.15	20000226	60.69315	71.71226	350.26273	12.10995	0.2716994	2.6673324	59	1	84 days	0.54	M-v	4	Williams 39585 2000 BS ₁₄
2000 BT ₁₄	12.8	0.15	20000226	281.71153	191.12362	47.65743	5.26263	0.0535881	2.6902332	84	2	1998–2000	0.65	M-v	3	Williams 39362 2000 BT ₁₄
2000 BX ₁₄	13.9	0.15	20000226	33.88242	43.14107	61.11485	9.46251	0.1401114	2.6428414	46	1	138 days	0.61	M-v	4	Williams 39585 2000 BX ₁₄
2000 BA ₁₅	14.6	0.15	20000226	34.45992	52.94730	51.08463	7.15428	0.1609525	2.3275776	41	1	110 days	0.50	M-v	4	Williams 39585 2000 BA ₁₅
2000 BE ₁₅	13.2	0.15	20000226	27.70985	27.38105	90.63672	13.33713	0.0814402	3.0305399	36	1	88 days	0.66	M-v	4	Williams 39585 2000 BE ₁₅
2000 BF ₁₅	13.3	0.15	20000226	352.24010	110.12076	48.12509	10.78823	0.0379516	3.0105934	51	2	1998–2000	0.57	M-v	4	Williams 39363 2000 BF ₁₅
2000 BO ₁₅	12.7	0.15	20000226	107.16146	304.59562	68.08606	15.75193	0.0836331	3.0024139	34	1	111 days	0.37	M-v	4	Williams 2000 BO ₁₅
2000 BX ₁₅	13.5	0.15	20000226	35.41919	110.50326	321.81469	14.50713	0.1210306	2.6164300	62	2	1998–2000	0.53	M-v	3	Williams 38720 2000 BX ₁₅
2000 BE ₁₆	13.3	0.15	20000206	238.73291	220.11940	54.08581	12.04198	0.1989014	2.7540934	21	1	43 days	0.71			Williams 2000 BE ₁₆
2000 BV ₁₆	13.4	0.15	20000117	279.15780	98.67869	106.07537	3.29676	0.0966071	2.5826889	15	1	12 days	0.42			Williams 2000 BV ₁₆
2000 BH ₁₇	14.6	0.15	20000117	51.34621	308.58658	113.21241	6.91259	0.0418935	2.8146528	19	1	30 days	0.77			Williams 2000 BH ₁₇
2000 BV ₁₇	16.5	0.15	20000117	29.37531	126.03403	315.57752	4.59728	0.1143740	2.3837007	21	1	38 days	0.69			Williams 2000 BV ₁₇
2000 BX ₁₇	15.6	0.15	20000117	80.73026	271.26816	112.21395	10.66231	0.1364567	2.7126008	26	1	37 days	0.67			Williams 2000 BX ₁₇
2000 BY ₁₇	15.2	0.15	20000117	276.74361	272.21689	319.03453	6.27013	0.2476263	2.3534377	33	1	38 days	0.39			Williams 2000 BY ₁₇
2000 BB ₁₈	14.6	0.15	20000226	70.33876	312.82285	81.10447	6.31546	0.2198454	2.5535528	35	1	112 days	0.47	M-v	4	Williams 39585 2000 BB ₁₈
2000 BP ₁₈	16.4	0.15	20000117	336.31121	178.36678	331.92522	2.47326	0.1174737	2.3518625	16	1	36 days	0.44			Williams 2000 BP ₁₈
2000 BS ₁₈	15.6	0.15	20000117	293.93372	212.07177	350.39764	2.02294	0.1386954	2.4378484	16	1	36 days	0.65			Williams 2000 BS ₁₈
2000 BB ₁₉	15.2	0.15	20000206	116.48600	23.70227	354.47828	18.96318	0.0942200	1.9764562	23	1	41 days	0.39			Williams 2000 BB ₁₉
2000 BG ₁₉	17.6	0.15	20000226	340.77018	79.23909	148.00337	12.57118	0.5562014	2.6676114	143	1	74 days	0.57	M-v	4	Marsden 39585 2000 BG ₁₉
2000 BH ₁₉	19.3	0.15	20000226	9.19630	134.55020	349.52743	1.31813	0.4556279	2.0262085	219	1	141 days	0.46	M-v	4	Marsden 39586 2000 BH ₁₉
2000 BU ₂₀	15.8	0.15	20000226	298.50845	112.91900	101.15691	1.30503	0.1571528	2.2683687	27	1	60 days	0.49	M-v	5	Williams 39586 2000 BU ₂₀
2000 BM ₂₂	14.5	0.15	20000226	113.19621	331.80415	41.31716	0.93882	0.1802367	3.2100457	33	3	1992–2000	0.65	M-v	5	Williams 39364 2000 BM ₂₂
2000 BP ₂₂	15.7	0.15	20000226	331.82722	56.25395	131.66125	6.23971	0.2192855	2.5879024	35	1	60 days	0.60	M-v	5	Williams 2000 BP ₂₂
2000 BQ ₂₂	16.1	0.15	20000226	317.08358	73.67356	125.16244	2.68990	0.1293207	2.2876635	54	2	1997–2000	0.63	M-v	4	Williams 39586 2000 BQ ₂₂
2000 BR ₂₂	14.1	0.15	20000226	167.27711	210.45996	123.15533	3.55422	0.0677849	2.7456780	56	3	1982–2000	0.64	M-v	4	Williams 39586 2000 BR ₂₂
2000 BS ₂₂	15.5	0.15	20000206	338.89374	174.48430	351.80566	4.20823	0.1585057	2.5648581	22	1	40 days	0.70			Williams 2000 BS ₂₂
2000 BU ₂₂	11.3	0.15	20000117	36.06757	323.11795	113.93511	8.62616	0.0609098	5.1994363	17	1	13 days	0.48			Williams 2000 BU ₂₂
2000 BW ₂₂	14.7	0.15	20000226	65.90156	235.63687	194.63760	1.52574	0.0382275	2.6556474	35	2	1998–2000	0.57	M-v	4	Williams 39586 2000 BW ₂₂
2000 BX ₂₂	14.6	0.15	20000226	159.86956	40.65601	294.66769	5.36215	0.1411682	2.4323101	56	3	1995–2000	0.65	M-v	4	Williams 39586 2000 BX ₂₂
2000 BY ₂₂	14.4	0.15	20000226	315.34889	29.96570	167.94202	2.86805	0.1332767	2.7648620	46	3	1996–2000	0.55	M-v	3	Williams 39586 2000 BY ₂₂
2000 BB ₂₃	13.7	0.15	20000226	234.44093	328.45009	304.62882	9.68984	0.0763441	2.9651275	51	3	1977–2000	0.67	M-v	3	Williams 39364 2000 BB ₂₃
2000 BC ₂₃	13.5	0.15	20000226	289.63119	18.10190	201.20255	1.18862	0.0732479	3.3019845	44	1	62 days	0.64	M-v	5	Williams 2000 BC ₂₃
2000 BE ₂₃	15.8	0.15	20000226	75.15418	115.68849	296.38552	3.49963	0.1399005	2.2848464	48	3	1997–2000	0.62	M-v	2	Williams 39586 2000 BE ₂₃
2000 BP ₂₄	13.8	0.15	20000226	234.01329	199.98164	73.19176	16.41688	0.0975559	2.6201263	37	2	1998–2000	0.69	M-v	4	Williams 39586 2000 BP ₂₄

2000 BA ₂₅	16.4	0.15	20000226	340.51096	41.03676	122.01527	6.89832	0.1829210	2.3197824	31	2	1993–2000	0.67	M-v	5	Williams	38723	2000 BA ₂₅
2000 BC ₂₅	15.3	0.15	20000226	92.38703	247.30538	131.35321	1.20874	0.1847188	2.1588042	50	2	1992–2000	0.54	M-v	5	Williams	38723	2000 BC ₂₅
2000 BF ₂₅	12.9	0.15	20000226	255.96191	136.24496	108.54691	2.22145	0.1321698	3.1853683	53	2	1998–2000	0.50	M-v	4	Williams	39586	2000 BF ₂₅
2000 BM ₂₅	14.8	0.15	20000226	283.89355	97.69940	125.29610	7.49409	0.1217152	2.2588820	44	1	90 days	0.44	M-v	4	Williams	39586	2000 BM ₂₅
2000 BN ₂₅	16.5	0.15	20000117	6.08441	336.05030	143.84854	1.37978	0.1206469	2.3949502	23	1	23 days	0.59			Williams		2000 BN ₂₅
2000 BO ₂₅	15.8	0.15	20000117	4.67170	168.10397	306.39620	6.15233	0.1843689	2.6690410	13	1	26 days	0.33			Williams		2000 BO ₂₅
2000 BQ ₂₅	13.7	0.15	20000226	114.14993	45.19979	311.67087	11.84535	0.1884718	2.9860178	30	1	60 days	0.58	M-v	5	Williams	39586	2000 BQ ₂₅
2000 BY ₂₅	14.6	0.15	20000117	302.63749	71.71376	112.95336	3.21426	0.0787356	2.6097234	34	1	44 days	0.53			Williams		2000 BY ₂₅
2000 BC ₂₆	13.8	0.15	20000226	303.84329	98.37672	107.22442	2.43455	0.1004110	3.1043343	39	2	1998–2000	0.58	M-v	5	Williams	39586	2000 BC ₂₆
2000 BJ ₂₆	15.2	0.15	20000226	70.13139	322.00568	93.66706	3.62468	0.1422083	2.2345188	44	1	66 days	0.47	M-v	4	Williams		2000 BJ ₂₆
2000 BK ₂₆	14.6	0.15	20000226	40.31369	306.21712	131.21646	5.67590	0.2522081	3.0660053	74	3	1993–2000	0.66	M-v	2	Williams	39364	2000 BK ₂₆
2000 BL ₂₆	14.2	0.15	20000226	334.79297	85.69443	88.76100	0.25870	0.1193818	3.2184978	52	2	1998–2000	0.42	M-v	5	Williams	39586	2000 BL ₂₆
2000 BQ ₂₆	15.1	0.15	20000226	45.03281	32.65340	47.97242	2.84922	0.1867537	2.3723398	44	4	1993–2000	0.65	M-v	2	Williams	39586	2000 BQ ₂₆
2000 BU ₂₆	15.1	0.15	20000226	330.95246	223.10317	315.14538	8.00742	0.0818424	2.4385227	54	1	93 days	0.56	M-v	4	Williams	39587	2000 BU ₂₆
2000 BV ₂₆	13.9	0.15	20000226	262.68607	300.19984	316.97554	14.53540	0.1542676	2.5467427	69	1	116 days	0.56	M-v	4	Williams	39587	2000 BV ₂₆
2000 BW ₂₆	15.6	0.15	20000206	325.21913	92.41574	93.38816	2.88082	0.1678692	2.6664371	37	1	38 days	0.65			Williams		2000 BW ₂₆
2000 BY ₂₆	16.2	0.15	20000226	33.67075	108.12283	352.21418	2.40871	0.1551969	2.4157765	67	1	56 days	0.57			Williams		2000 BY ₂₆
2000 BH ₂₇	13.9	0.15	20000226	69.44665	90.26884	341.19943	1.33932	0.0330980	2.9002933	79	3	1978–2000	0.57	M-v	4	Williams	39365	2000 BH ₂₇
2000 BJ ₂₇	14.4	0.15	20000226	299.83166	252.72739	329.30239	4.41384	0.1448894	2.3367347	74	1	144 days	0.52	M-v	4	Williams	39587	2000 BJ ₂₇
2000 BL ₂₇	15.3	0.15	20000226	340.17267	32.32339	139.46149	5.15115	0.1019635	2.3271202	68	1	89 days	0.39	M-v	4	Williams	39587	2000 BL ₂₇
2000 BM ₂₇	15.1	0.15	20000226	354.18242	181.25334	333.61999	2.05953	0.1079290	2.3475262	82	2	1998–2000	0.51	M-v	3	Williams	39587	2000 BM ₂₇
2000 BN ₂₇	15.5	0.15	20000226	36.22204	125.96461	330.62538	1.82466	0.1842750	2.3609028	73	1	95 days	0.52	M-v	4	Williams	39587	2000 BN ₂₇
2000 BQ ₂₇	16.2	0.15	20000206	27.38381	9.06778	98.06950	1.70815	0.1247040	2.2442183	49	1	59 days	0.78			Williams		2000 BQ ₂₇
2000 BX ₂₇	13.6	0.15	20000226	306.57971	116.14394	103.45573	2.22849	0.1774505	3.0709899	71	3	1979–2000	0.51	M-v	3	Williams	39365	2000 BX ₂₇
2000 BZ ₂₇	13.6	0.15	20000226	50.56887	291.80526	154.49985	1.46816	0.1381411	3.2142213	88	2	1998–2000	0.55	M-v	3	Marsden	39366	2000 BZ ₂₇
2000 BE ₂₈	14.5	0.15	20000226	97.76713	252.95889	136.74852	13.97847	0.1061412	2.5567816	41	2	1998–2000	0.61	M-v	4	Williams	39366	2000 BE ₂₈
2000 BN ₂₈	14.4	0.15	20000226	17.59832	96.33443	35.04195	10.25457	0.0798343	2.2411827	35	1	109 days	0.36	M-v	4	Williams	39587	2000 BN ₂₈
2000 BO ₂₈	20.1	0.15	20000226	315.66619	302.69247	320.31992	6.32846	0.5996963	1.6982962	43	1	56 days	0.44	M-v	6	Williams		2000 BO ₂₈
2000 BR ₂₈	15.6	0.15	20000117	281.57716	156.25799	49.21839	2.23849	0.0438865	2.3228421	27	1	38 days	0.64			Williams		2000 BR ₂₈
2000 BW ₂₈	14.8	0.15	20000117	342.25399	23.34435	135.23239	16.03268	0.0775532	2.8353896	45	1	57 days	0.51			Williams		2000 BW ₂₈
2000 BY ₂₈	15.0	0.15	20000226	52.57376	92.96457	350.83034	3.45042	0.1149168	2.5211630	69	2	1998–2000	0.64	M-v	3	Williams	39587	2000 BY ₂₈
2000 BS ₂₉	15.2	0.15	20000206	313.44517	119.52379	76.97505	13.81946	0.1215899	2.5284152	17	1	43 days	0.48			Williams		2000 BS ₂₉
2000 BX ₂₉	15.3	0.15	20000226	51.24829	37.11972	27.75569	1.72806	0.1397371	2.7027538	28	3	1996–2000	0.56	M-v	3	Williams	38725	2000 BX ₂₉
2000 BG ₃₀	14.8	0.15	20000226	11.73862	38.31479	95.39612	3.11696	0.1485888	2.4085488	56	2	1998–2000	0.52	M-v	3	Williams	39587	2000 BG ₃₀
2000 BK ₃₀	14.5	0.15	20000226	74.52779	279.51495	140.36798	6.66717	0.0815366	2.7711658	65	2	1998–2000	0.52	M-v	3	Williams	39367	2000 BK ₃₀
2000 CC	16.6	0.15	20000226	31.76190	62.18416	38.58503	3.52564	0.0817217	2.5522998	23	1	53 days	0.42			Williams		2000 CC
2000 CD	15.2	0.15	20000226	101.60470	95.01280	303.51625	13.95645	0.0155371	2.4604263	38	1	65 days	0.47	M-v	4	Williams	39587	2000 CD
2000 CH	15.6	0.15	20000226	305.47218	76.45447	122.43014	3.25975	0.0100323	2.3185177	40	1	61 days	0.61	M-v	5	Williams		2000 CH
2000 CS	16.1	0.15	20000226	12.87367	164.77976	328.00706	6.79028	0.1318894	2.2327463	54	1	63 days	0.36	M-v	4	Marsden		2000 CS
2000 CU	14.9	0.15	20000226	359.73957	350.01045	164.70398	4.74186	0.1210154	2.2829629	73	1	139 days	0.43	M-v	3	Williams	39587	2000 CU
2000 CV	12.7	0.15	20000226	21.82761	338.44611	147.86436	14.12631	0.1199649	2.6934232	81	1	125 days	0.44	M-v	3	Williams	39587	2000 CV
2000 CW	14.5	0.15	20000206	256.78029	293.49694	337.43707	9.92532	0.1754611	2.6808007	50	1	39 days	0.60			Williams		2000 CW
2000 CX	13.7	0.15	20000226	238.42476	132.76759	147.53761	6.60997	0.0473197	2.9635790	52	1	62 days	0.51	M-v	5	Williams		2000 CX
2000 CY	13.9	0.15	20000226	254.78392	289.63126	340.28115	14.68888	0.1069558	2.5908084	50	1	64 days	0.50	M-v	4	Williams		2000 CY
2000 CB ₁	15.2	0.15	20000226	294.24504	110.24520	120.43671	1.75165	0.1550330	2.4382781	81	1	69 days	0.49	M-v	5	Williams		2000 CB ₁
2000 CE ₁	14.1	0.15	20000226	205.52943	162.41190	150.07530	6.45884	0.1339722	2.3589648	63	3	1994–2000	0.52	M-v	3	Williams	39367	2000 CE ₁
2000 CK ₁	14.5	0.15	20000226	290.38959	177.00527	70.07177	1.36495	0.1724842	2.3715649	59	3	1990–2000	0.48	M-v	3	Williams	39368	2000 CK ₁
2000 CL ₁	14.3	0.15	20000226	340.19812	36.78405	147.27267	15.32853	0.1270795	2.6765559	63	1	87 days	0.43	M-v	3	Williams	39588	2000 CL ₁
2000 CM ₁	15.1	0.15	20000226	43.93222	107.57493	352.83014	2.02263	0.1500262	2.4174309	43	1	120 days	0.52	M-v	4	Williams	39588	2000 CM ₁
2000 CN ₁	15.4	0.15	20000226	334.16890	196.75283	341.55883	1.94385	0.0823390	2.3541204	59	2	1993–2000	0.56	M-v	5	Williams	39368	2000 CN ₁
2000 CQ ₁	14.4	0.15	20000226	39.59318	348.21687	125.82287	2.78318	0.0196580	2.8933625	51	1	62 days	0.56	M-v	4	Williams		2000 CQ ₁
2000 CT ₁	13.6	0.15	20000226	323.80683	28.66819	178.41619	0.77924	0.1275130	3.1527278	87	1	67 days	0.59	M-v	4	Williams		2000 CT ₁
2000 CU ₁	13.6	0.15	20000226	255.42239	299.39152	332.77711	7.12639	0.0636693	2.5969731	65	1	66 days	0.50	M-v	4	Williams		2000 CU ₁

2000 CV ₁	13.1	0.15	20000226	10.62944	340.28702	168.00706	6.92725	0.1065022	3.2157695	96	3	1997–2000	0.56	M-v	3	Williams	39368	2000 CV ₁
2000 CW ₁	14.0	0.15	20000226	265.55136	328.18359	306.77625	2.96661	0.1822806	2.2396715	47	1	66 days	0.40	M-v	4	Williams		2000 CW ₁
2000 CX ₁	13.2	0.15	20000226	150.39995	224.24963	141.15041	5.86360	0.0794304	2.6539536	72	1	120 days	0.52	M-v	4	Williams	39588	2000 CX ₁
2000 CY ₁	14.8	0.15	20000226	53.97491	342.53617	115.22497	7.41064	0.2991689	2.5641031	38	1	65 days	0.58	M-v	5	Williams		2000 CY ₁
2000 CB ₂	14.6	0.15	20000226	317.57814	103.84979	105.54884	6.00145	0.1139409	2.3595355	55	1	90 days	0.46	M-v	4	Williams	39588	2000 CB ₂
2000 CC ₂	13.2	0.15	20000226	297.91825	102.16932	133.63869	14.73907	0.1456465	2.6054631	58	1	138 days	0.60	M-v	4	Williams	39588	2000 CC ₂
2000 CD ₂	15.2	0.15	20000226	22.08718	35.28207	88.87433	4.63314	0.2027941	2.5719052	52	1	90 days	0.54	M-v	4	Williams		2000 CD ₂
2000 CH ₂	14.7	0.15	20000226	267.20861	263.07061	353.37326	8.52944	0.1060034	2.2653182	41	2	1991–2000	0.49	M-v	4	Williams	39588	2000 CH ₂
2000 CJ ₂	14.0	0.15	20000226	110.58905	336.29112	63.85040	7.04157	0.0634809	2.3714578	61	3	1997–2000	0.70	M-v	3	Williams	39369	2000 CJ ₂
2000 CK ₂	14.8	0.15	20000226	9.72575	29.20617	118.55339	6.30021	0.0913029	2.2776270	74	3	1993–2000	0.60	M-v	2	Williams	39588	2000 CK ₂
2000 CL ₂	13.2	0.15	20000226	129.82573	265.99579	124.08220	12.98444	0.0035613	2.9429530	39	1	83 days	0.60	M-v	4	Williams		2000 CL ₂
2000 CM ₂	13.2	0.15	20000226	51.74875	85.81606	351.59999	23.65304	0.2604590	3.1453313	38	1	84 days	0.65	M-v	4	Williams		2000 CM ₂
2000 CO ₂	12.7	0.15	20000226	219.74805	181.55584	126.26017	12.00033	0.0947460	2.9839764	67	3	1984–2000	0.66	M-v	2	Williams	39370	2000 CO ₂
2000 CP ₂	13.2	0.15	20000226	164.74051	342.30098	7.34503	13.08453	0.1974276	2.6727442	34	1	60 days	0.67	M-v	5	Williams		2000 CP ₂
2000 CR ₂	12.5	0.15	20000226	278.41418	224.03874	33.23657	11.44140	0.1296371	2.7471372	46	2	1998–2000	0.62	M-v	4	Williams	39370	2000 CR ₂
2000 CS ₂	13.6	0.15	20000226	289.41550	119.44816	120.82243	15.39066	0.0617601	2.5867178	32	1	86 days	0.52	M-v	4	Williams		2000 CS ₂
2000 CZ ₂	16.3	0.15	20000206	346.01208	7.12168	149.60702	11.06460	0.1641584	2.3304930	60	1	35 days	0.57			Williams		2000 CZ ₂
2000 CN ₃	9.9	0.15	20000226	12.88786	332.11950	108.95862	27.82122	0.0452151	5.3685226	55	3	1994–2000	0.61	M-v	2	Williams	39370	2000 CN ₃
2000 CB ₄	13.3	0.15	20000226	324.27004	92.58606	138.32434	15.63149	0.1082622	2.8504452	39	1	91 days	0.48	M-v	4	Williams		2000 CB ₄
2000 CN ₉	17.1	0.15	20000117	341.16176	225.92498	279.79158	2.96224	0.1950497	2.3476618	11	1	21 days	0.56			Williams		2000 CN ₉
2000 CO ₉	14.8	0.15	20000117	31.64284	152.66949	288.30633	8.08317	0.0802622	2.9713471	13	1	21 days	0.47			Williams		2000 CO ₉
2000 CC ₁₀	15.2	0.15	20000226	46.88039	134.59555	289.97230	1.23468	0.1945738	2.6534105	32	2	1994–2000	0.44	M-v	5	Williams	38726	2000 CC ₁₀
2000 CP ₁₀	14.7	0.15	20000117	343.87731	205.06244	293.88706	4.29222	0.0510069	2.7846822	13	1	21 days	0.29			Williams		2000 CP ₁₀
2000 CD ₁₃	15.6	0.15	20000117	50.13469	159.05837	260.28861	2.95980	0.1526922	2.7150217	15	1	24 days	0.52			Williams		2000 CD ₁₃
2000 CJ ₁₃	15.6	0.15	20000226	246.91429	10.04765	248.99129	1.82230	0.1035572	2.2175254	44	3	1997–2000	0.74	M-v	3	Williams	38727	2000 CJ ₁₃
2000 CL ₁₃	13.7	0.15	20000226	33.84243	232.24539	216.93226	1.25309	0.1505858	3.2301511	51	2	1998–2000	0.51	M-v	4	Williams	38727	2000 CL ₁₃
2000 CM ₁₄	15.0	0.15	20000117	106.10947	99.42003	273.37525	6.54651	0.0765600	2.7207434	16	1	22 days	0.81			Williams		2000 CM ₁₄
2000 CD ₁₈	14.8	0.15	20000226	53.37627	263.07998	165.73734	5.17951	0.1464529	2.7090482	56	3	1976–2000	0.71	M-v	2	Williams	39371	2000 CD ₁₈
2000 CF ₁₈	11.6	0.15	20000226	280.80806	82.64524	142.84513	17.01679	0.1137793	3.9713059	68	4	1979–2000	0.62	M-v	1	Williams	39371	2000 CF ₁₈
2000 CG ₂₀	13.7	0.15	20000226	214.37908	127.17924	161.54959	9.47585	0.0726863	2.6342839	39	3	1989–2000	0.54	M-v	3	Williams	39372	2000 CG ₂₀
2000 CH ₂₀	13.8	0.15	20000226	97.20428	244.86813	143.09394	10.65436	0.1116782	2.9842999	37	1	60 days	0.60	M-v	5	Williams	39588	2000 CH ₂₀
2000 CV ₂₀	14.8	0.15	20000226	67.99718	193.52653	228.47495	0.89699	0.0891381	2.9373618	27	2	1995–2000	0.46	M-v	5	Williams	38727	2000 CV ₂₀
2000 CF ₂₁	14.7	0.15	20000226	81.53575	165.97751	216.34433	3.24256	0.3181612	2.6811827	25	2	1998–2000	0.66	M-v	4	Williams	38727	2000 CF ₂₁
2000 CT ₂₁	16.8	0.15	20000206	348.58751	287.95589	223.22669	2.67006	0.1148985	2.2133396	25	1	36 days	0.64			Williams		2000 CT ₂₁
2000 CQ ₂₃	13.6	0.15	20000226	17.57326	193.99981	288.37807	5.69974	0.0745101	3.2159574	26	1	89 days	0.40	M-v	4	Williams		2000 CQ ₂₃
2000 CC ₂₄	14.3	0.15	20000226	358.64094	5.71844	138.37364	12.73190	0.1068352	3.0802267	30	1	53 days	0.61			Williams		2000 CC ₂₄
2000 CP ₂₄	14.5	0.15	20000226	321.55703	45.09439	140.55357	15.28223	0.0469203	2.6141280	41	1	79 days	0.47	M-v	4	Williams		2000 CP ₂₄
2000 CR ₂₄	15.2	0.15	20000226	217.40292	27.79482	267.93794	0.97529	0.1589289	2.1451121	52	2	1998–2000	0.66	M-v	4	Williams	39374	2000 CR ₂₄
2000 CU ₂₄	14.8	0.15	20000226	273.67794	336.30847	268.69930	2.83934	0.1234376	2.1983528	42	2	1998–2000	0.68	M-v	4	Williams	39374	2000 CU ₂₄
2000 CH ₂₅	14.9	0.15	20000226	37.82536	262.96052	196.96402	4.47264	0.0938127	2.5820926	42	2	1998–2000	0.55	M-v	3	Williams	39375	2000 CH ₂₅
2000 CN ₂₅	14.9	0.15	20000226	303.08700	64.86465	161.55788	6.83798	0.2224283	2.5541036	51	3	1996–2000	0.54	M-v	2	Williams	39375	2000 CN ₂₅
2000 CW ₂₅	13.7	0.15	20000117	48.40556	163.90561	278.17281	1.58909	0.0643569	3.3563423	40	1	58 days	0.49			Williams		2000 CW ₂₅
2000 CZ ₂₅	15.9	0.15	20000117	332.71184	216.57117	308.45433	3.94417	0.0952881	2.2283069	45	1	58 days	1.08			Williams		2000 CZ ₂₅
2000 CA ₂₆	15.4	0.15	20000226	71.40188	237.26523	176.74916	1.06125	0.1735054	2.3803562	43	2	1997–2000	0.39	M-v	5	Williams	39375	2000 CA ₂₆
2000 CD ₂₆	15.8	0.15	20000226	357.55741	341.74907	168.45846	2.36405	0.1295364	2.3612695	34	2	1993–2000	0.54	M-v	5	Williams	39376	2000 CD ₂₆
2000 CF ₂₆	14.8	0.15	20000226	295.67706	62.35824	158.17139	4.48456	0.0923946	2.2928138	62	4	1993–2000	0.58	M-v	1	Williams	39376	2000 CF ₂₆
2000 CL ₂₆	14.8	0.15	20000226	287.31550	293.19213	306.30531	1.85833	0.1813361	2.3661354	41	2	1993–2000	0.53	M-v	4	Williams	39376	2000 CL ₂₆
2000 CN ₂₆	14.8	0.15	20000226	27.51054	305.20560	169.59047	1.81658	0.0693652	2.7657087	46	2	1998–2000	0.51	M-v	4	Williams	39376	2000 CN ₂₆
2000 CR ₂₆	13.4	0.15	20000226	6.16604	183.08733	315.80060	11.16186	0.1358096	2.9809243	80	1	120 days	0.42	M-v	3	Williams	39589	2000 CR ₂₆
2000 CZ ₂₆	12.6	0.15	20000226	226.98976	136.94307	157.24971	11.26092	0.2426769	2.6556951	68	3	1997–2000	0.51	M-v	3	Williams	39377	2000 CZ ₂₆
2000 CF ₂₇	15.2	0.15	20000206	311.39225	322.87649	252.75343	2.93703	0.2422432	2.7001262	18	1	38 days	0.37			Williams		2000 CF ₂₇
2000 CL ₂₇	13.8	0.15	20000226	194.20830	3.77428	310.87538	14.50215	0.0714915	2.6524777	28	1	80 days	0.45	M-v	4	Williams	39590	2000 CL ₂₇
2000 CT ₂₇	13.7	0.15	20000226	71.71437	267.18040	155.60043	5.85434	0.1199568	2.2677399	103	3	1990–2000	0.63	M-v	2	Williams	39378	2000 CT ₂₇

2000 CX ₂₇	13.4	0.15	20000226	207.82803	355.06220	306.51769	3.38340	0.0506985	2.7825697	62	3	1994–2000	0.47	M-v	3	Williams	39378	2000 CX ₂₇
2000 CJ ₂₈	15.6	0.15	20000206	35.60894	261.71353	193.57632	1.78557	0.1523622	2.5561961	49	1	58 days	0.61			Williams		2000 CJ ₂₈
2000 CM ₂₈	14.3	0.15	20000226	357.04669	355.81817	157.20339	7.90742	0.1349902	2.5898030	62	1	110 days	0.50	M-v	3	Williams	39590	2000 CM ₂₈
2000 CP ₂₈	14.3	0.15	20000226	36.52467	282.48490	185.59519	4.13543	0.0629446	2.7704166	24	1	63 days	0.48	M-v	5	Williams		2000 CP ₂₈
2000 CU ₂₈	13.7	0.15	20000226	332.08778	39.01755	147.86936	17.91485	0.1592172	3.1270596	69	1	97 days	0.49	M-v	4	Williams	39590	2000 CU ₂₈
2000 CX ₂₈	13.6	0.15	20000226	241.40831	118.34007	164.74904	5.67544	0.1724623	2.5536513	44	2	1992–2000	0.55	M-v	4	Williams	39379	2000 CX ₂₈
2000 CY ₂₈	14.6	0.15	20000226	22.18102	323.55968	157.25687	1.40799	0.1397897	2.4255008	100	1	98 days	0.41	M-v	4	Williams	39590	2000 CY ₂₈
2000 CZ ₂₈	13.0	0.15	20000226	80.77069	251.74371	150.84529	9.07785	0.2238444	3.1360866	58	1	116 days	0.57	M-v	4	Williams	39590	2000 CZ ₂₈
2000 CA ₂₉	13.0	0.15	20000226	183.52636	177.85139	148.03127	9.97701	0.0808749	3.0678430	76	2	1998–2000	0.50	M-v	4	Williams	39590	2000 CA ₂₉
2000 CC ₂₉	13.7	0.15	20000206	145.04801	158.60017	195.29978	1.88635	0.1126310	2.7156376	16	1	38 days	0.38			Williams		2000 CC ₂₉
2000 CP ₂₉	14.3	0.15	20000226	339.10181	16.53466	164.62979	5.37751	0.1667410	2.6850808	45	1	119 days	0.46	M-v	4	Williams	39590	2000 CP ₂₉
2000 CT ₂₉	13.3	0.15	20000226	312.22142	54.97792	156.98116	1.84857	0.1492304	3.1724265	77	2	1998–2000	0.49	M-v	3	Williams	39380	2000 CT ₂₉
2000 CW ₂₉	15.2	0.15	20000206	55.87053	273.53948	154.31492	2.88619	0.1912872	2.3689046	59	1	39 days	0.46			Williams		2000 CW ₂₉
2000 CC ₃₀	15.3	0.15	20000226	108.71535	84.25298	312.75643	6.07268	0.0458125	2.2617298	40	2	1998–2000	0.58	M-v	3	Williams	39381	2000 CC ₃₀
2000 CL ₃₀	15.0	0.15	20000226	320.79110	80.21472	147.79958	28.39782	0.3596623	2.6266349	62	1	85 days	0.45	M-v	4	Williams	39590	2000 CL ₃₀
2000 CN ₃₀	15.6	0.15	20000226	43.83503	280.72368	181.87487	1.76411	0.0689070	2.2313950	49	2	1998–2000	0.59	M-v	4	Williams	39381	2000 CN ₃₀
2000 CQ ₃₁	14.7	0.15	20000226	238.39096	111.65299	168.09154	4.52010	0.1734621	2.5360544	26	1	53 days	0.73			Williams		2000 CQ ₃₁
2000 CR ₃₁	14.8	0.15	20000226	57.94911	195.12117	245.24408	0.89620	0.0548119	2.6823166	62	2	1998–2000	0.66	M-v	4	Williams	39382	2000 CR ₃₁
2000 CC ₃₂	14.2	0.15	20000226	330.16221	237.12675	317.29821	11.63172	0.2148166	2.6677636	40	1	71 days	0.75	M-v	5	Williams		2000 CC ₃₂
2000 CD ₃₂	17.4	0.15	20000226	1.76663	29.72477	139.50259	24.48844	0.2328911	1.7918717	44	1	51 days	0.56	M-v	6	Williams		2000 CD ₃₂
2000 CH ₃₂	14.1	0.15	20000226	204.11586	143.96234	168.90180	3.72221	0.1586041	2.5593526	42	5	1977–2000	0.64	M-v	2	Williams	39383	2000 CH ₃₂
2000 CR ₃₂	15.1	0.15	20000226	314.49646	57.68704	149.07954	10.04646	0.1044433	2.4594756	45	1	60 days	0.41	M-v	5	Williams		2000 CR ₃₂
2000 CU ₃₂	16.1	0.15	20000226	312.67016	358.13135	212.31922	0.92505	0.1111210	2.3044975	34	1	99 days	0.51	M-v	4	Williams		2000 CU ₃₂
2000 CY ₃₂	14.0	0.15	20000226	145.00900	51.03481	310.18522	4.14307	0.1225977	2.7728460	51	2	1998–2000	0.70	M-v	4	Williams	39383	2000 CY ₃₂
2000 CA ₃₃	15.7	0.15	20000226	75.35270	264.74286	161.19714	2.68596	0.1059246	2.3699440	35	2	1998–2000	0.59	M-v	4	Williams	39383	2000 CA ₃₃
2000 CB ₃₃	14.9	0.15	20000226	239.77553	133.00139	151.69000	6.34242	0.1243163	2.2606411	55	2	1998–2000	0.58	M-v	4	Williams	39383	2000 CB ₃₃
2000 CD ₃₃	16.6	0.15	20000206	340.03633	19.15569	152.03554	5.58846	0.0933630	2.2948586	38	1	38 days	0.61			Williams		2000 CD ₃₃
2000 CE ₃₃	15.7	0.15	20000226	58.33642	272.56616	164.31992	2.46367	0.1733361	2.3666717	48	3	1993–2000	0.64	M-v	3	Williams	39384	2000 CE ₃₃
2000 CH ₃₃	14.6	0.15	20000226	14.17113	355.36337	141.45329	1.75058	0.1818942	3.1606004	55	1	59 days	0.85			Williams		2000 CH ₃₃
2000 CN ₃₃	19.2	0.15	20000226	9.21537	351.49411	129.68505	17.69478	0.5872800	2.5993894	101	1	55 days	0.38	M-v	4	Marsden		2000 CN ₃₃
2000 CS ₃₃	14.6	0.15	20000226	125.47194	231.64185	137.93322	10.86930	0.1394538	2.4331617	64	2	1998–2000	0.67	M-v	4	Williams	39384	2000 CS ₃₃
2000 CT ₃₃	13.8	0.15	20000226	257.54613	249.69880	2.64779	1.28576	0.0285077	2.8309098	106	3	1996–2000	0.64	M-v	4	Williams	39384	2000 CT ₃₃
2000 CV ₃₃	15.3	0.15	20000206	346.64143	27.05849	135.87503	4.61456	0.0579924	2.4716538	41	1	36 days	0.48			Williams		2000 CV ₃₃
2000 CW ₃₃	15.3	0.15	20000206	36.90160	110.33718	350.02466	2.32766	0.1288733	2.4094215	54	1	58 days	0.46			Williams		2000 CW ₃₃
2000 CX ₃₃	15.3	0.15	20000206	13.73371	342.45611	144.23785	13.14687	0.2252193	3.1419376	44	1	39 days	0.80			Williams		2000 CX ₃₃
2000 CY ₃₃	14.3	0.15	20000226	104.53484	247.76189	148.55254	14.25791	0.1616751	2.5793169	51	1	59 days	0.50			Williams		2000 CY ₃₃
2000 CZ ₃₃	14.8	0.15	20000226	43.21162	120.76346	339.90721	5.71756	0.1520857	2.6985820	40	1	60 days	0.48	M-v	5	Williams		2000 CZ ₃₃
2000 CA ₃₄	14.6	0.15	20000226	253.99007	130.42111	137.84320	2.70839	0.0368543	2.7516870	60	4	1993–2000	0.69	M-v	2	Williams	39385	2000 CA ₃₄
2000 CB ₃₄	14.9	0.15	20000226	293.61655	88.20356	150.97591	13.29604	0.1331369	2.6630294	33	2	1996–2000	0.41	M-v	4	Williams	39385	2000 CB ₃₄
2000 CC ₃₄	14.8	0.15	20000226	272.62993	229.41946	39.23961	0.27026	0.2091837	2.3001493	55	4	1994–2000	0.46	M-v	2	Williams	39385	2000 CC ₃₄
2000 CD ₃₄	14.8	0.15	20000226	49.31971	108.38938	340.54957	2.84651	0.1921269	2.4159524	71	3	1970–2000	0.57	M-v	2	Williams	39385	2000 CD ₃₄
2000 CE ₃₄	13.3	0.15	20000226	95.70840	252.39446	151.50748	5.85981	0.1745485	3.1509696	68	4	1981–2000	0.65	M-v	1	Williams	39386	2000 CE ₃₄
2000 CF ₃₄	14.6	0.15	20000226	267.07490	70.59403	185.58812	1.14996	0.0480429	2.6188380	49	2	1998–2000	0.62	M-v	5	Williams	39386	2000 CF ₃₄
2000 CJ ₃₄	14.1	0.15	20000226	264.12638	113.19237	163.57817	2.40264	0.2104148	2.4021475	66	5	1986–2000	0.52	M-v	2	Williams	39386	2000 CJ ₃₄
2000 CK ₃₄	14.4	0.15	20000226	104.40639	70.43976	332.16327	5.48472	0.0985998	2.3386822	70	2	1998–2000	0.57	M-v	3	Williams	39386	2000 CK ₃₄
2000 CP ₃₄	14.6	0.15	20000226	68.80875	25.16180	62.78996	1.76431	0.0994102	3.1327138	28	1	65 days	0.50	M-v	5	Williams		2000 CP ₃₄
2000 CQ ₃₄	13.4	0.15	20000226	69.74908	11.77623	70.13592	1.66293	0.1451745	3.2287927	74	4	1991–2000	0.53	M-v	1	Williams	39591	2000 CQ ₃₄
2000 CS ₃₄	15.2	0.15	20000226	77.23447	283.58430	132.06488	3.42668	0.2299448	2.5401299	63	3	1994–2000	0.58	M-v	3	Williams	39387	2000 CS ₃₄
2000 CT ₃₄	15.2	0.15	20000226	279.64199	70.85192	162.35702	7.77003	0.1133310	3.1141566	33	1	54 days	0.48			Williams		2000 CT ₃₄
2000 CN ₃₅	13.9	0.15	20000226	244.01834	94.82641	185.45945	7.87183	0.2606830	2.5669347	32	6	1968–2000	0.67	M-v	2	Williams	39387	2000 CN ₃₅
2000 CR ₃₅	14.5	0.15	20000226	57.46830	253.15288	172.98287	7.44462	0.2188460	2.3652429	49	2	1993–2000	0.59	M-v	4	Williams	39388	2000 CR ₃₅
2000 CU ₃₅	14.4	0.15	20000226	7.50699	317.60431	182.73111	8.40221	0.1675877	2.5980975	49	2	1998–2000	0.57	M-v	3	Williams	39388	2000 CU ₃₅
2000 CB ₃₆	13.6	0.15	20000226	336.09709	265.18270	282.53175	3.56077	0.1598800	2.5363688	48	1	144 days	0.56	M-v	4	Williams	39591	2000 CB ₃₆

2000 CE ₃₆	13.2	0.15	20000226	290.68221	275.33616	325.25089	12.11329	0.1422839	2.7000969	58	2	1998–2000	0.66	M-v	3	Williams	39591	2000 CE ₃₆
2000 CF ₃₆	14.9	0.15	20000226	329.67498	35.37322	161.50414	8.97701	0.1520799	2.3107407	56	2	1994–2000	0.54	M-v	4	Williams	39388	2000 CF ₃₆
2000 CH ₃₆	15.5	0.15	20000226	353.96245	207.98333	317.85432	2.83275	0.1731647	2.3470032	40	1	66 days	0.58	M-v	4	Williams	39591	2000 CH ₃₆
2000 CL ₃₆	14.8	0.15	20000226	18.39302	219.02975	277.66092	3.68963	0.0914310	2.2977541	39	2	1998–2000	0.64	M-v	3	Williams	39388	2000 CL ₃₆
2000 CO ₃₆	12.7	0.15	20000226	312.31255	33.87471	190.64796	4.14395	0.1630512	3.1906825	82	4	1996–2000	0.56	M-v	2	Williams	39389	2000 CO ₃₆
2000 CQ ₃₆	12.7	0.15	20000226	178.55192	177.94214	162.21114	14.51047	0.1873640	2.8605220	39	1	61 days	0.50	M-v	5	Williams		2000 CQ ₃₆
2000 CR ₃₆	15.0	0.15	20000226	21.10971	173.39058	321.02703	1.56253	0.0883361	2.4017683	50	1	62 days	0.60	M-v	5	Williams		2000 CR ₃₆
2000 CS ₃₆	12.8	0.15	20000226	33.46930	187.15087	289.19096	2.79207	0.1464584	3.1358354	45	1	122 days	0.53	M-v	4	Williams		2000 CS ₃₆
2000 CU ₃₆	16.1	0.15	20000226	8.18131	182.57006	326.34353	11.60034	0.1911700	2.6721515	26	1	57 days	0.65			Williams		2000 CU ₃₆
2000 CV ₃₆	14.7	0.15	20000226	310.55533	69.52507	167.74694	12.41258	0.2430603	2.5644682	45	1	64 days	0.43	M-v	4	Williams		2000 CV ₃₆
2000 CX ₃₆	14.7	0.15	20000226	69.83859	99.08977	330.74408	4.62981	0.1777372	2.2807330	61	1	85 days	0.43	M-v	4	Williams	39591	2000 CX ₃₆
2000 CY ₃₆	14.5	0.15	20000226	21.23531	190.79997	305.82727	3.11626	0.0983700	2.3752210	30	1	63 days	0.41	M-v	5	Williams		2000 CY ₃₆
2000 CZ ₃₆	13.3	0.15	20000226	254.35833	7.04543	272.63466	1.81362	0.0976641	2.5343676	67	2	1998–2000	0.52	M-v	4	Williams	39389	2000 CZ ₃₆
2000 CA ₃₇	14.5	0.15	20000226	53.89627	192.28108	268.82331	1.00892	0.0825264	2.3268958	74	3	1991–2000	0.50	M-v	2	Williams	39389	2000 CA ₃₇
2000 CC ₃₇	14.1	0.15	20000226	291.23267	87.27883	164.31266	6.03244	0.1648158	2.6712153	68	3	1993–2000	0.64	M-v	4	Williams	39389	2000 CC ₃₇
2000 CD ₃₇	12.6	0.15	20000226	240.99253	126.37626	167.85839	10.50581	0.1070403	2.9704865	71	1	63 days	0.34	M-v	5	Williams		2000 CD ₃₇
2000 CE ₃₇	13.5	0.15	20000226	319.53378	43.01618	165.24220	10.90139	0.0367112	3.0008440	59	2	1995–2000	0.45	M-v	4	Williams	39591	2000 CE ₃₇
2000 CF ₃₇	13.6	0.15	20000226	307.14153	256.20226	328.59273	3.62801	0.0715062	3.0481607	37	1	60 days	0.51	M-v	5	Williams		2000 CF ₃₇
2000 CG ₃₇	14.3	0.15	20000226	187.98631	2.41692	335.55679	7.25577	0.1136699	2.5189223	55	2	1998–2000	0.66	M-v	4	Williams	39390	2000 CG ₃₇
2000 CH ₃₇	15.2	0.15	20000226	37.39426	271.24098	196.70526	1.59113	0.1716347	2.4148131	41	1	62 days	0.42	M-v	4	Williams		2000 CH ₃₇
2000 CW ₃₇	15.1	0.15	20000226	278.17461	256.97456	343.74626	1.13611	0.1837449	2.4227990	38	3	1994–2000	0.52	M-v	4	Williams	39390	2000 CW ₃₇
2000 CZ ₃₈	15.7	0.15	20000226	345.46319	113.96905	66.56434	5.54677	0.2530342	2.5741126	34	1	86 days	0.45	M-v	4	Williams	39592	2000 CZ ₃₈
2000 CH ₃₉	16.3	0.15	20000117	55.18656	135.37177	291.90935	6.30001	0.0540694	2.2434712	39	1	58 days	0.69			Williams		2000 CH ₃₉
2000 CJ ₃₉	15.0	0.15	20000226	315.75888	105.35047	103.13534	1.08307	0.1511577	2.2903726	65	2	1993–2000	0.54	M-v	5	Williams	39391	2000 CJ ₃₉
2000 CL ₃₉	12.4	0.15	20000226	81.27120	58.97569	7.58971	12.33696	0.1264244	2.7489367	57	5	1975–2000	0.67	M-v	2	Williams	39391	2000 CL ₃₉
2000 CR ₃₉	15.9	0.15	20000226	354.38743	26.47153	130.48019	1.61274	0.1650042	2.2947399	76	1	95 days	0.56	M-v	4	Williams	39592	2000 CR ₃₉
2000 CP ₄₀	13.7	0.15	20000226	316.84172	77.82892	126.97549	10.48486	0.0884188	3.0604987	45	2	1989–2000	0.52	M-v	4	Williams	39592	2000 CP ₄₀
2000 CT ₄₀	14.3	0.15	20000226	224.98136	215.43292	80.61131	4.95234	0.0677565	2.6547593	40	1	62 days	0.58	M-v	5	Williams		2000 CT ₄₀
2000 CU ₄₀	12.8	0.15	20000226	199.84626	294.25355	24.22940	6.20645	0.0647403	2.8577353	46	1	91 days	0.49	M-v	4	Williams	39592	2000 CU ₄₀
2000 CV ₄₀	13.0	0.15	20000226	196.20070	315.43403	7.54028	9.61136	0.0942671	2.9833906	76	4	1995–2000	0.55	M-v	1	Williams	39392	2000 CV ₄₀
2000 CX ₄₀	16.0	0.15	20000226	13.04041	37.12439	98.67714	3.91318	0.1643785	2.3314231	44	1	65 days	0.51	M-v	4	Williams	39592	2000 CX ₄₀
2000 CZ ₄₀	15.0	0.15	20000226	4.23294	357.07549	158.98250	25.90588	0.1826514	2.3170126	44	1	82 days	0.45	M-v	4	Williams	39592	2000 CZ ₄₀
2000 CF ₄₁	14.9	0.15	20000226	279.01526	273.49912	345.90966	2.66959	0.2203309	2.3234470	46	1	60 days	0.56	M-v	5	Williams		2000 CF ₄₁
2000 CH ₄₁	15.4	0.15	20000226	118.63969	31.17243	345.57942	2.89184	0.1984735	2.1686075	46	3	1979–2000	0.58	M-v	4	Williams	39392	2000 CH ₄₁
2000 CV ₄₂	13.9	0.15	20000226	279.68146	57.55653	167.93323	12.63735	0.0247604	2.8359081	35	3	1997–2000	0.55	M-v	3	Williams	39392	2000 CV ₄₂
2000 CB ₄₃	14.4	0.15	20000226	108.00427	82.45257	298.33174	7.71948	0.1463017	2.6267606	36	3	1996–2000	0.59	M-v	3	Williams	39592	2000 CB ₄₃
2000 CU ₄₄	14.8	0.15	20000226	322.39128	351.14014	213.00376	3.93684	0.1928754	2.5577619	28	1	66 days	0.44	M-v	5	Williams		2000 CU ₄₄
2000 CV ₄₄	15.3	0.15	20000206	337.15876	311.84063	224.11827	3.50401	0.1716050	2.5372739	26	1	35 days	0.70			Williams		2000 CV ₄₄
2000 CY ₄₄	13.9	0.15	20000226	315.51058	332.46223	225.12321	3.60364	0.0483650	2.7342206	41	2	1998–2000	0.59	M-v	4	Williams	39392	2000 CY ₄₄
2000 CJ ₄₅	15.9	0.15	20000226	356.81484	342.58512	173.62812	9.68914	0.2361484	2.7775874	19	1	69 days	0.43	M-v	4	Williams		2000 CJ ₄₅
2000 CR ₄₅	12.4	0.15	20000226	256.31422	79.37992	181.40254	9.26034	0.0559221	3.1616239	50	3	1991–2000	0.60	M-v	3	Williams	39392	2000 CR ₄₅
2000 CW ₄₅	15.0	0.15	20000226	312.37043	12.30747	192.20647	5.46434	0.0633422	2.3395987	30	2	1998–2000	0.72	M-v	4	Williams	39393	2000 CW ₄₅
2000 CX ₄₅	13.8	0.15	20000226	221.98362	136.09446	160.70729	15.99042	0.1265027	2.5801334	42	3	1996–2000	0.58	M-v	2	Williams	39393	2000 CX ₄₅
2000 CY ₄₅	13.0	0.15	20000226	158.56678	144.25904	198.67136	5.96530	0.2843558	2.7370444	39	3	1984–2000	0.79	M-v	4	Williams	39393	2000 CY ₄₅
2000 CH ₄₆	13.7	0.15	20000226	249.93702	338.61095	298.66536	5.64330	0.1628077	2.2670431	55	3	1993–2000	0.56	M-v	2	Williams	39393	2000 CH ₄₆
2000 CL ₄₆	12.9	0.15	20000226	310.27191	45.48619	162.37578	12.02915	0.0741484	3.0598419	32	1	63 days	0.34	M-v	5	Williams		2000 CL ₄₆
2000 CN ₄₆	13.7	0.15	20000226	183.97452	165.31407	162.74333	13.20166	0.2077435	2.5839783	27	1	61 days	0.61	M-v	5	Williams		2000 CN ₄₆
2000 CP ₄₇	14.6	0.15	20000226	267.53427	46.87862	208.15239	5.61494	0.0901921	2.4229193	25	1	54 days	0.56			Williams		2000 CP ₄₇
2000 CQ ₄₇	13.0	0.15	20000226	137.75474	80.60255	284.43956	8.46887	0.1489764	3.0748103	41	3	1992–2000	0.62	M-v	3	Williams	39393	2000 CQ ₄₇
2000 CT ₄₇	15.6	0.15	20000226	5.03448	228.47821	277.37144	4.80552	0.1742100	2.3447149	24	1	125 days	0.62	M-v	4	Williams		2000 CT ₄₇
2000 CV ₄₇	14.2	0.15	20000226	338.85848	307.01482	232.51918	4.19741	0.1172742	2.5522238	30	1	54 days	1.18			Williams		2000 CV ₄₇
2000 CZ ₄₇	14.7	0.15	20000226	346.79742	335.08748	196.90366	4.62251	0.1625981	2.5481230	64	2	1998–2000	0.58	M-v	3	Williams	39393	2000 CZ ₄₇
2000 CB ₄₈	13.7	0.15	20000226	304.95059	64.71576	162.36096	17.09485	0.1813620	3.0889743	58	1	143 days	0.50	M-v	4	Williams		2000 CB ₄₈

2000 CC ₄₈	14.7	0.15	20000226	295.26640	279.96252	302.62262	10.34172	0.0379048	2.5804644	33	1	54 days	0.66		Williams		2000 CC ₄₈
2000 CE ₄₈	13.4	0.15	20000226	281.54968	315.89419	287.64325	8.13485	0.1004773	2.7939902	56	3	1997–2000	0.64	M-v	3	Williams	39592 2000 CE ₄₈
2000 CH ₄₈	13.5	0.15	20000226	43.96851	245.79658	189.53442	6.40683	0.3271478	2.5641365	71	3	1992–2000	0.64	M-v	2	Williams	39394 2000 CH ₄₈
2000 CK ₄₈	14.8	0.15	20000226	353.20335	254.03047	269.42302	6.44936	0.1592227	2.7599992	25	1	79 days	0.58	M-v	4	Williams	2000 CK ₄₈
2000 CM ₄₈	14.6	0.15	20000226	320.82373	340.11741	221.61289	4.97937	0.1069465	2.3234925	43	2	1998–2000	0.65	M-v	5	Williams	39394 2000 CM ₄₈
2000 CV ₄₈	13.7	0.15	20000226	233.30404	18.20719	273.29683	5.81824	0.1210836	2.3961844	29	1	54 days	0.58			Williams	2000 CV ₄₈
2000 CY ₄₈	15.8	0.15	20000226	49.04234	269.43533	184.68082	4.09170	0.1021548	2.2090541	63	2	1997–2000	0.65	M-v	4	Williams	39394 2000 CY ₄₈
2000 CB ₄₉	15.4	0.15	20000226	39.63195	165.23778	293.35859	4.75584	0.1754393	2.6003756	25	1	54 days	0.53			Williams	2000 CB ₄₉
2000 CC ₄₉	16.2	0.15	20000226	16.22977	202.20679	288.80898	2.58725	0.1654885	2.5438202	36	1	54 days	1.04			Williams	2000 CC ₄₉
2000 CE ₄₉	14.8	0.15	20000226	271.90941	58.12351	204.47261	1.92675	0.1872510	2.3630212	64	3	1993–2000	0.55	M-v	4	Williams	39394 2000 CE ₄₉
2000 CF ₄₉	12.9	0.15	20000226	215.49402	142.81021	158.83998	11.62974	0.0565849	3.0816437	71	3	1995–2000	0.48	M-v	2	Williams	39395 2000 CF ₄₉
2000 CJ ₄₉	14.4	0.15	20000226	34.79545	309.90100	159.09602	13.84668	0.1332801	2.7088950	54	1	61 days	0.52	M-v	4	Williams	2000 CJ ₄₉
2000 CK ₄₉	14.6	0.15	20000226	289.71605	56.57864	188.92818	5.62056	0.1813290	2.3379684	38	4	1986–2000	0.74	M-v	2	Williams	39395 2000 CK ₄₉
2000 CN ₄₉	13.8	0.15	20000226	25.21126	223.79040	259.96007	3.89108	0.1111374	2.7293326	53	2	1998–2000	0.63	M-v	3	Williams	39395 2000 CN ₄₉
2000 CV ₄₉	15.2	0.15	20000226	322.78166	27.55539	177.50785	9.19018	0.1577251	2.3723070	28	1	61 days	0.62	M-v	5	Williams	2000 CV ₄₉
2000 CA ₅₀	14.1	0.15	20000226	102.74656	160.28095	243.80501	5.02782	0.0837593	2.7487293	43	2	1998–2000	0.69	M-v	4	Williams	39395 2000 CA ₅₀
2000 CG ₅₀	14.9	0.15	20000226	0.57876	202.54829	313.68701	11.88425	0.1204920	2.6365344	20	1	54 days	0.42			Williams	2000 CG ₅₀
2000 CK ₅₀	13.8	0.15	20000226	14.80920	191.25391	307.03102	7.37453	0.0721930	2.7757768	33	1	90 days	0.58	M-v	4	Williams	2000 CK ₅₀
2000 CM ₅₀	16.1	0.15	20000206	342.41631	261.95215	267.89974	2.12355	0.1077748	2.3246307	11	1	33 days	0.69			Williams	2000 CM ₅₀
2000 CN ₅₀	15.3	0.15	20000226	322.97476	35.49256	163.71028	6.21356	0.0959581	2.4774785	33	1	63 days	0.47	M-v	5	Williams	2000 CN ₅₀
2000 CQ ₅₀	14.0	0.15	20000226	277.37003	99.76392	153.45561	15.58126	0.1385102	2.5736119	45	1	63 days	0.45	M-v	5	Williams	2000 CQ ₅₀
2000 CT ₅₀	13.9	0.15	20000226	299.40586	280.24456	314.89567	6.53940	0.1687705	2.7625108	51	1	62 days	0.54	M-v	5	Williams	2000 CT ₅₀
2000 CW ₅₀	15.6	0.15	20000226	329.97574	319.23758	234.93485	1.63332	0.1230414	2.3855426	43	2	1998–2000	0.50	M-v	5	Williams	39396 2000 CW ₅₀
2000 CX ₅₀	16.4	0.15	20000206	10.31724	339.65085	154.28709	13.91701	0.1869114	2.5744853	42	1	42 days	0.52			Williams	2000 CX ₅₀
2000 CY ₅₀	15.2	0.15	20000226	34.77500	149.87226	321.19277	14.03379	0.1390437	2.6402396	24	1	54 days	0.67			Williams	2000 CY ₅₀
2000 CZ ₅₀	14.6	0.15	20000226	61.18057	286.79141	162.47820	15.24118	0.0459143	2.7228214	32	1	63 days	0.40	M-v	4	Williams	2000 CZ ₅₀
2000 CA ₅₁	13.9	0.15	20000226	150.60158	196.50968	166.86914	12.22622	0.0334350	2.6145285	53	1	68 days	0.40	M-v	4	Williams	2000 CA ₅₁
2000 CB ₅₁	13.4	0.15	20000226	329.08344	234.32889	320.47285	16.70652	0.1042638	3.1081228	25	1	62 days	0.49	M-v	5	Williams	2000 CB ₅₁
2000 CE ₅₁	12.4	0.15	20000226	84.66680	230.39060	193.90641	6.08717	0.0747400	2.9401573	37	1	113 days	0.46	M-v	4	Williams	2000 CE ₅₁
2000 CF ₅₁	12.4	0.15	20000226	292.32839	295.39749	301.07983	7.57541	0.0956384	3.1838316	29	1	62 days	0.37	M-v	5	Williams	2000 CF ₅₁
2000 CG ₅₁	15.0	0.15	20000226	279.96829	336.94959	277.51330	4.25019	0.1482958	2.2074690	18	1	54 days	0.44			Williams	2000 CG ₅₁
2000 CH ₅₁	12.7	0.15	20000226	260.95743	39.92502	228.34530	4.79794	0.1073657	2.7298679	46	3	1996–2000	0.55	M-v	4	Williams	39396 2000 CH ₅₁
2000 CJ ₅₁	14.1	0.15	20000206	199.79445	5.87175	315.03309	13.81606	0.1816865	2.6012487	13	1	38 days	0.47			Williams	2000 CJ ₅₁
2000 CK ₅₁	12.2	0.15	20000226	285.17493	57.99539	199.63618	6.81078	0.2077366	3.1371691	31	1	63 days	0.48	M-v	5	Williams	2000 CK ₅₁
2000 CL ₅₁	13.9	0.15	20000226	32.64372	172.28810	300.46545	7.09256	0.1715273	2.7820988	38	1	87 days	0.62	M-v	4	Williams	2000 CL ₅₁
2000 CM ₅₁	12.7	0.15	20000226	28.89452	257.40635	225.88650	4.39761	0.1032531	3.1877304	43	2	1998–2000	0.47	M-v	3	Williams	39396 2000 CM ₅₁
2000 CS ₅₁	14.2	0.15	20000226	329.59690	37.42419	168.46968	5.86894	0.2394809	3.0890936	41	1	61 days	0.47	M-v	5	Williams	2000 CS ₅₁
2000 CW ₅₁	15.8	0.15	20000226	13.23376	177.00580	321.47027	4.22389	0.1345787	2.4293377	51	1	55 days	0.57			Williams	2000 CW ₅₁
2000 CY ₅₁	14.5	0.15	20000226	208.94875	358.57609	313.69470	3.92074	0.1055702	2.2209575	56	2	1998–2000	0.63	M-v	4	Williams	39397 2000 CY ₅₁
2000 CZ ₅₁	14.7	0.15	20000226	219.78296	135.62465	169.85790	4.69140	0.1426332	2.1844786	65	3	1997–2000	0.66	M-v	3	Williams	39397 2000 CZ ₅₁
2000 CA ₅₂	14.3	0.15	20000226	233.09783	342.04557	319.09270	5.08243	0.2286380	2.2957779	53	3	1987–2000	0.71	M-v	3	Williams	39397 2000 CA ₅₂
2000 CD ₅₂	14.2	0.15	20000226	344.88438	5.46451	171.55855	1.51521	0.1270085	3.2106197	27	1	61 days	0.56	M-v	5	Williams	2000 CD ₅₂
2000 CE ₅₂	15.1	0.15	20000226	346.65489	20.01712	152.85249	15.34006	0.0827339	2.5149728	49	1	61 days	0.50	M-v	5	Williams	2000 CE ₅₂
2000 CF ₅₂	15.3	0.15	20000226	50.91775	162.86009	291.65941	0.98362	0.1178816	2.2299420	54	4	1994–2000	0.72	M-v	1	Williams	39397 2000 CF ₅₂
2000 CG ₅₂	14.1	0.15	20000226	350.09552	232.57244	299.73502	3.67996	0.1778928	3.0633267	39	2	1989–2000	0.62	M-v	4	Williams	39397 2000 CG ₅₂
2000 CJ ₅₂	14.9	0.15	20000226	267.46470	70.60618	197.07987	2.56057	0.1580976	2.2128476	33	1	61 days	0.42	M-v	4	Williams	2000 CJ ₅₂
2000 CK ₅₂	15.3	0.15	20000226	337.57602	12.82655	173.01289	4.35287	0.1113551	2.4174514	26	1	61 days	0.52	M-v	5	Williams	2000 CK ₅₂
2000 CM ₅₂	14.7	0.15	20000226	337.36856	318.21337	225.15424	2.41401	0.0634936	2.5133317	36	1	62 days	0.59	M-v	5	Williams	2000 CM ₅₂
2000 CN ₅₂	15.6	0.15	20000226	12.72970	205.97764	292.07745	2.92184	0.2079073	2.3489896	31	1	68 days	0.61	M-v	5	Williams	2000 CN ₅₂
2000 CP ₅₂	13.3	0.15	20000226	116.29166	72.00774	315.05823	6.73950	0.1653241	2.6791842	27	1	62 days	0.56	M-v	5	Williams	2000 CP ₅₂
2000 CR ₅₂	13.4	0.15	20000226	173.97005	20.87454	323.62720	9.36989	0.1029338	2.9706483	40	3	1966–2000	0.61	M-v	4	Williams	39398 2000 CR ₅₂
2000 CS ₅₂	13.8	0.15	20000226	275.89847	313.02901	318.57408	8.09577	0.2526922	2.3759928	26	1	63 days	0.44	M-v	4	Williams	2000 CS ₅₂
2000 CT ₅₂	16.0	0.15	20000226	33.45340	221.43887	252.30488	1.51915	0.1544515	2.3677694	32	1	54 days	0.53			Williams	2000 CT ₅₂

2000 CU ₅₂	13.4	0.15	20000226	279.03119	320.26068	298.05897	6.03621	0.1574604	2.4305855	27	1	63 days	0.50	M-v	5	Williams		2000 CU ₅₂
2000 CV ₅₂	13.4	0.15	20000226	117.89587	213.79235	171.50470	13.99925	0.1773775	2.5757576	49	2	1998–2000	0.56	M-v	3	Williams	39398	2000 CV ₅₂
2000 CX ₅₂	15.1	0.15	20000226	286.93727	78.60985	167.42481	10.24890	0.1146268	2.2636241	58	1	61 days	0.56	M-v	4	Williams		2000 CX ₅₂
2000 CY ₅₂	13.5	0.15	20000226	284.22577	60.91010	191.16809	3.72890	0.1394958	2.6300141	31	1	66 days	0.46	M-v	5	Williams		2000 CY ₅₂
2000 CA ₅₃	14.8	0.15	20000226	270.54777	22.09089	243.23627	1.37158	0.1563786	2.3025803	37	1	68 days	0.40	M-v	4	Williams		2000 CA ₅₃
2000 CB ₅₃	13.5	0.15	20000226	85.52603	262.35342	160.53983	13.90085	0.0984460	3.1679609	57	1	67 days	0.57	M-v	5	Williams		2000 CB ₅₃
2000 CD ₅₃	13.8	0.15	20000226	233.91594	136.50032	160.14074	14.11329	0.1316833	2.6111384	42	1	61 days	0.52	M-v	5	Williams		2000 CD ₅₃
2000 CH ₅₃	14.0	0.15	20000226	282.26704	279.55265	330.64743	26.54641	0.0956489	2.5864711	35	1	62 days	0.61	M-v	5	Williams		2000 CH ₅₃
2000 CJ ₅₃	13.4	0.15	20000226	303.51442	55.65250	167.45104	10.84020	0.0430036	3.0566178	45	1	62 days	0.48	M-v	5	Williams		2000 CJ ₅₃
2000 CK ₅₃	12.3	0.15	20000226	220.26292	146.45536	169.86724	13.34659	0.2052339	3.1622350	59	3	1974–2000	0.57	M-v	4	Williams	39398	2000 CK ₅₃
2000 CL ₅₃	15.2	0.15	20000226	17.72487	285.17742	212.18857	0.59926	0.1190898	2.4556789	53	1	67 days	0.48	M-v	4	Williams		2000 CL ₅₃
2000 CN ₅₃	13.2	0.15	20000226	305.11733	316.66688	263.19528	0.72604	0.0386493	2.9401378	79	4	1990–2000	0.57	M-v	1	Williams	39398	2000 CN ₅₃
2000 CO ₅₃	13.2	0.15	20000226	258.20418	114.53303	159.78146	17.01725	0.0970033	3.0634679	60	1	61 days	0.76	M-v	5	Williams		2000 CO ₅₃
2000 CP ₅₃	12.6	0.15	20000226	56.69947	134.93973	331.04517	8.96021	0.0165832	2.9722941	40	1	62 days	0.59	M-v	5	Williams		2000 CP ₅₃
2000 CQ ₅₃	14.0	0.15	20000226	274.40955	318.92085	305.56750	2.93111	0.1280871	2.2601118	87	2	1998–2000	0.56	M-v	3	Williams	39398	2000 CQ ₅₃
2000 CR ₅₃	14.8	0.15	20000226	26.54798	160.87933	326.34455	3.88994	0.1634655	2.5594585	48	1	63 days	0.49	M-v	5	Williams		2000 CR ₅₃
2000 CS ₅₃	13.9	0.15	20000226	287.66299	81.06933	167.72426	6.32024	0.1004754	2.4477222	62	1	96 days	0.50	M-v	4	Williams	39593	2000 CS ₅₃
2000 CT ₅₃	13.4	0.15	20000226	232.32475	323.87200	341.33474	14.65044	0.1207207	2.6030312	62	1	67 days	0.57	M-v	5	Williams		2000 CT ₅₃
2000 CY ₅₃	15.4	0.15	20000226	99.07282	229.73326	165.85006	6.87731	0.1683469	2.2835367	36	1	63 days	0.52	M-v	5	Williams		2000 CY ₅₃
2000 CE ₅₄	12.4	0.15	20000226	17.52130	204.15559	288.93163	7.19550	0.1084832	3.9734287	29	1	62 days	0.50	M-v	4	Williams		2000 CE ₅₄
2000 CE ₅₄	13.3	0.15	20000226	232.56947	343.45026	310.55155	5.51611	0.1181411	3.1350710	31	1	54 days	0.36			Williams		2000 CE ₅₄
2000 CJ ₅₄	15.5	0.15	20000226	31.55322	295.29373	175.35689	2.28467	0.1811847	2.5385209	47	2	1998–2000	0.59	M-v	3	Williams	39399	2000 CJ ₅₄
2000 CN ₅₄	15.0	0.15	20000226	317.19605	33.02967	186.95257	3.27802	0.2028164	2.3144302	35	1	62 days	0.41	M-v	5	Williams		2000 CN ₅₄
2000 CR ₅₄	14.8	0.15	20000226	11.46507	347.28103	154.80765	13.91276	0.2430413	3.1337265	30	1	67 days	0.54	M-v	4	Williams		2000 CR ₅₄
2000 CS ₅₄	14.3	0.15	20000226	0.24215	357.75487	166.08737	19.58617	0.1293287	3.0739805	35	1	61 days	0.51	M-v	5	Williams		2000 CS ₅₄
2000 CU ₅₄	14.8	0.15	20000226	319.83639	45.11305	160.41801	17.63294	0.1193334	2.5920493	43	1	61 days	0.49	M-v	5	Williams		2000 CU ₅₄
2000 CA ₅₅	15.7	0.15	20000226	23.87978	334.45344	127.48709	9.15079	0.2299495	2.6634835	48	1	59 days	0.53	M-v	5 D	Williams		2000 CA ₅₅
2000 CS ₅₅	14.4	0.15	20000226	220.53553	326.30140	321.57346	2.56720	0.0452015	2.6748847	66	3	1996–2000	0.54	M-v	3	Williams	39399	2000 CS ₅₅
2000 CT ₅₅	14.7	0.15	20000226	47.72380	122.26674	321.09675	8.72339	0.1566760	2.7795671	49	1	61 days	0.47	M-v	5	Williams	39594	2000 CT ₅₅
2000 CU ₅₅	16.0	0.15	20000226	53.25608	107.98586	319.87416	5.58877	0.2429148	2.3351764	59	1	92 days	0.55	M-v	4	Williams	39594	2000 CU ₅₅
2000 CX ₅₅	13.9	0.15	20000226	119.90671	234.90749	143.49298	10.43436	0.0830077	2.7155866	87	1	97 days	0.55	M-v	4	Williams	39594	2000 CX ₅₅
2000 CY ₅₅	15.6	0.15	20000226	4.90794	183.79837	318.47462	1.79164	0.0801349	2.3107756	51	2	1998–2000	0.61	M-v	4	Williams	39594	2000 CY ₅₅
2000 CZ ₅₅	14.5	0.15	20000226	349.84979	193.64198	324.65685	12.18209	0.0506617	2.7989393	54	1	64 days	0.52	M-v	4	Williams	39594	2000 CZ ₅₅
2000 CG ₅₆	15.1	0.15	20000226	279.84661	175.09156	70.35261	3.55128	0.0850350	2.2260290	72	1	62 days	0.57	M-v	5	Williams		2000 CG ₅₆
2000 CH ₅₆	15.2	0.15	20000226	15.59215	49.48609	88.42332	3.77338	0.0684483	2.1655745	97	2	1998–2000	0.47	M-v	3	Williams	39594	2000 CH ₅₆
2000 CJ ₅₆	13.0	0.15	20000226	267.18970	278.90903	350.48730	11.95168	0.1920181	2.6558095	64	1	69 days	0.43	M-v	4	Williams		2000 CJ ₅₆
2000 CM ₅₆	15.9	0.15	20000226	248.18555	256.66923	26.48846	4.63019	0.1611537	2.1810299	59	1	59 days	0.46			Williams		2000 CM ₅₆
2000 CO ₅₆	13.9	0.15	20000226	213.30441	198.70849	114.16507	7.35213	0.1807474	2.7790816	47	2	1998–2000	0.73	M-v	4	Williams	39400	2000 CO ₅₆
2000 CP ₅₆	15.6	0.15	20000206	10.33153	145.18120	351.56805	11.26367	0.1257093	2.6448286	35	1	40 days	0.49			Williams		2000 CP ₅₆
2000 CT ₅₆	14.0	0.15	20000226	120.18266	253.47145	130.82542	3.87145	0.0244641	3.1412059	40	2	1998–2000	0.50	M-v	4	Williams	39400	2000 CT ₅₆
2000 CU ₅₆	13.0	0.15	20000226	149.67175	29.95206	323.18549	16.17722	0.1011869	3.1652443	49	2	1997–2000	0.52	M-v	3	Williams	39400	2000 CU ₅₆
2000 CW ₅₆	12.3	0.15	20000226	183.77815	220.46227	122.66828	11.49161	0.2281557	3.1436525	41	3	1986–2000	0.50	M-v	3	Williams	39401	2000 CW ₅₆
2000 CP ₅₇	13.9	0.15	20000226	96.19491	338.96549	63.74507	14.90594	0.0993180	2.6114675	36	1	108 days	0.52	M-v	4	Williams	39594	2000 CP ₅₇
2000 CT ₅₇	16.5	0.15	20000226	359.76814	178.69437	340.38374	2.06178	0.1281568	2.3905392	49	1	59 days	0.61			Williams		2000 CT ₅₇
2000 CU ₅₇	14.9	0.15	20000226	41.42176	126.66504	332.47837	11.97516	0.2037853	2.6401410	40	1	60 days	0.57	M-v	5	Williams		2000 CU ₅₇
2000 CV ₅₇	15.7	0.15	20000206	2.08374	191.48064	320.94937	5.58225	0.0625612	2.3910038	19	1	35 days	0.39			Williams		2000 CV ₅₇
2000 CW ₅₇	12.8	0.15	20000226	181.30881	181.54036	160.13185	9.55456	0.1606664	2.7802436	70	3	1988–2000	0.55	M-v	3	Williams	39401	2000 CW ₅₇
2000 CY ₅₇	12.3	0.15	20000226	75.03661	75.69283	342.53826	9.23025	0.2599231	3.1754786	74	2	1998–2000	0.50	M-v	3	Williams	39401	2000 CY ₅₇
2000 CZ ₅₇	13.1	0.15	20000226	231.57288	334.89657	333.29628	14.28364	0.2001771	2.5681276	37	1	62 days	0.61	M-v	5	Williams		2000 CZ ₅₇
2000 CA ₅₈	13.0	0.15	20000226	255.64034	298.69527	338.68715	9.45119	0.0716022	2.9747970	49	2	1998–2000	0.67	M-v	4	Williams	39401	2000 CA ₅₈
2000 CB ₅₈	14.5	0.15	20000226	298.70129	253.21481	339.44985	12.15022	0.0669093	2.6210019	52	1	59 days	0.59			Williams		2000 CB ₅₈
2000 CC ₅₈	13.1	0.15	20000226	330.98816	67.84433	143.89061	11.84626	0.1321479	2.6655518	57	1	121 days	0.39	M-v	3	Williams	39594	2000 CC ₅₈
2000 CE ₅₈	12.7	0.15	20000226	316.64964	92.18129	137.94719	13.78749	0.1333982	2.6790329	36	1	91 days	0.41	M-v	4	Williams		2000 CE ₅₈

2000 CF ₅₈	14.0	0.15	20000226	1.37685	49.74453	123.69654	9.22852	0.0470947	2.3035261	41	1	96 days	0.40	M-v	3	Williams	2000 CF ₅₈
2000 CN ₅₈	12.4	0.15	20000226	3.12711	10.45132	163.79985	22.79577	0.0529121	3.1853309	50	1	157 days	0.58	M-v	3	Williams	2000 CN ₅₈
2000 CO ₅₈	14.2	0.15	20000226	317.79650	154.98276	79.47337	8.72180	0.1386363	2.4284792	45	1	96 days	0.41	M-v	4	Williams	2000 CO ₅₈
2000 CP ₅₈	14.0	0.15	20000226	93.08916	328.20283	106.12153	10.02092	0.1304084	2.3425906	38	1	68 days	0.52	M-v	5	Williams	2000 CP ₅₈
2000 CS ₅₈	14.6	0.15	20000226	351.58993	206.46011	323.98500	32.18093	0.1380770	2.5972537	37	1	65 days	0.45	M-v	4	Williams	2000 CS ₅₈
2000 CU ₅₈	15.8	0.15	20000226	309.61695	60.61776	158.92200	25.43656	0.0858133	1.8708027	53	3	1993-2000	0.50	M-v	2	Williams	39402 2000 CU ₅₈
2000 CC ₅₉	13.8	0.15	20000226	351.13984	48.69047	150.04830	14.03564	0.1968457	2.5823887	40	1	69 days	0.65	M-v	4	Williams	2000 CC ₅₉
2000 CE ₅₉	20.2	0.15	20000226	265.16642	307.66149	318.81929	12.26112	0.1671753	1.1385450	126	1	67 days	0.48	M-v	5	Williams	39594 2000 CE ₅₉
2000 CM ₅₉	14.1	0.15	20000226	281.93295	254.85315	20.44913	6.61634	0.1312908	2.2823203	66	2	1998-2000	0.43	M-v	4	Williams	39402 2000 CM ₅₉
2000 CO ₆₀	14.6	0.15	20000226	74.97470	247.97628	178.86878	1.79564	0.0852062	2.9124228	26	2	1998-2000	0.72	M-v	4	Williams	39402 2000 CO ₆₀
2000 CQ ₆₀	13.1	0.15	20000226	66.99206	167.84840	277.47831	7.72381	0.0367960	3.1202951	40	2	1998-2000	0.57	M-v	4	Williams	39402 2000 CQ ₆₀
2000 CS ₆₀	13.5	0.15	20000226	238.27554	40.06182	248.86342	5.87940	0.1205558	2.3390171	61	3	1987-2000	0.59	M-v	2	Williams	39403 2000 CS ₆₀
2000 CZ ₆₀	14.2	0.15	20000226	317.32618	331.01236	243.67986	5.17273	0.1574782	2.5344354	23	1	62 days	0.61	M-v	5	Williams	2000 CZ ₆₀
2000 CB ₆₁	13.3	0.15	20000226	70.96690	275.73128	163.23258	26.53948	0.0631925	2.6200879	52	1	115 days	0.61	M-v	4	Williams	39594 2000 CB ₆₁
2000 CD ₆₁	15.8	0.15	20000226	13.74066	329.64488	167.39703	2.24832	0.1621208	2.3458903	42	2	1993-2000	0.60	M-v	4	Williams	39403 2000 CD ₆₁
2000 CE ₆₁	16.0	0.15	20000226	353.47653	9.35095	154.57386	7.68291	0.0761684	2.2807914	42	1	61 days	0.54	M-v	5	Williams	2000 CE ₆₁
2000 CF ₆₁	13.3	0.15	20000226	261.27381	318.11934	308.74704	10.02063	0.0725089	2.9697779	23	1	62 days	0.53	M-v	5	Williams	2000 CF ₆₁
2000 CJ ₆₁	14.5	0.15	20000226	71.96335	174.83566	256.29943	4.49710	0.1422854	2.3941986	54	2	1998-2000	0.66	M-v	4	Williams	39403 2000 CJ ₆₁
2000 CK ₆₁	13.7	0.15	20000226	76.93371	123.57790	300.83068	9.74520	0.1661173	2.6185858	45	2	1998-2000	0.54	M-v	3	Williams	39403 2000 CK ₆₁
2000 CL ₆₁	14.9	0.15	20000226	2.64013	225.84905	290.74313	7.76742	0.2088051	2.7799522	39	1	112 days	0.62	M-v	3	Williams	39594 2000 CL ₆₁
2000 CM ₆₁	11.8	0.15	20000226	7.12584	335.38169	177.05535	16.38829	0.0520017	3.1731372	49	1	71 days	0.55	M-v	4	Williams	2000 CM ₆₁
2000 CO ₆₁	14.4	0.15	20000226	24.07284	164.80608	316.99658	14.52637	0.2417740	3.0760272	33	1	62 days	0.59	M-v	4	Williams	2000 CO ₆₁
2000 CU ₆₁	14.6	0.15	20000226	29.40340	282.54284	204.04327	4.96023	0.0877514	2.3265893	53	2	1998-2000	0.61	M-v	4	Williams	39403 2000 CU ₆₁
2000 CV ₆₁	14.9	0.15	20000226	35.41413	289.91513	192.29159	6.57448	0.0578011	2.3266953	43	2	1998-2000	0.65	M-v	4	Williams	39404 2000 CV ₆₁
2000 CW ₆₁	14.6	0.15	20000226	278.21391	33.70387	218.61058	6.65957	0.0825184	2.3647650	63	4	1976-2000	0.71	M-v	2	Williams	39404 2000 CW ₆₁
2000 CZ ₆₁	13.9	0.15	20000226	290.06696	69.97468	177.78821	13.84994	0.1421649	2.7349774	30	1	66 days	0.65	M-v	5	Williams	2000 CZ ₆₁
2000 CB ₆₂	14.6	0.15	20000226	245.12771	326.70267	326.16070	25.23927	0.1554492	2.3015706	23	1	62 days	0.45	M-v	4	Williams	2000 CB ₆₂
2000 CD ₆₂	13.7	0.15	20000226	42.35839	279.24230	183.92942	10.34992	0.1796229	2.4272160	26	1	63 days	0.39	M-v	4	Williams	2000 CD ₆₂
2000 CG ₆₂	14.1	0.15	20000226	244.95980	112.63246	173.17945	12.00272	0.0874886	2.3515608	46	3	1993-2000	0.52	M-v	2	Williams	39404 2000 CG ₆₂
2000 CH ₆₂	13.4	0.15	20000226	356.28035	337.43761	189.20806	6.02313	0.0282935	2.7785676	30	1	62 days	0.55	M-v	5	Williams	2000 CH ₆₂
2000 CK ₆₂	14.3	0.15	20000226	281.42244	66.63639	184.24308	5.95424	0.0866335	2.2528057	48	1	66 days	0.65	M-v	5	Williams	2000 CK ₆₂
2000 CL ₆₂	12.0	0.15	20000226	100.86404	229.14889	180.00598	16.45426	0.1322071	3.1290317	34	1	66 days	0.67	M-v	5	Williams	2000 CL ₆₂
2000 CN ₆₂	14.6	0.15	20000226	26.12915	284.16904	193.13997	8.81150	0.2761644	2.7625068	38	1	88 days	0.59	M-v	4	Williams	2000 CN ₆₂
2000 CP ₆₂	14.0	0.15	20000226	36.53615	228.44995	245.61688	6.13779	0.1751712	3.0272074	25	1	62 days	0.68	M-v	5	Williams	2000 CP ₆₂
2000 CR ₆₂	14.2	0.15	20000226	281.23401	295.08842	321.29780	14.14638	0.1111205	2.6572467	19	1	62 days	0.57	M-v	5	Williams	2000 CR ₆₂
2000 CT ₆₂	13.3	0.15	20000226	220.10329	114.12580	200.31359	6.44850	0.1685518	2.3394674	23	1	63 days	0.59	M-v	5	Williams	2000 CT ₆₂
2000 CY ₆₂	14.5	0.15	20000226	309.83106	261.89034	325.38275	13.37316	0.1227144	2.5580843	26	1	94 days	0.58	M-v	4	Williams	2000 CY ₆₂
2000 CZ ₆₂	12.3	0.15	20000226	103.79659	228.72832	187.64796	8.11268	0.0636848	3.4069054	79	3	1997-2000	0.60	M-v	3	Williams	39404 2000 CZ ₆₂
2000 CB ₆₃	13.1	0.15	20000226	140.90805	50.84606	330.97232	9.01428	0.0441114	3.0724701	47	1	60 days	0.56	M-v	5	Williams	2000 CB ₆₃
2000 CC ₆₃	15.1	0.15	20000226	333.36199	1.33592	192.44261	2.95175	0.0596522	2.3391971	46	4	1993-2000	0.62	M-v	3	Williams	39404 2000 CC ₆₃
2000 CE ₆₃	14.4	0.15	20000226	296.56285	60.02547	180.14459	5.73665	0.1073662	2.5399657	55	1	63 days	0.50	M-v	4	Williams	2000 CE ₆₃
2000 CG ₆₃	13.7	0.15	20000226	206.46639	29.68234	300.24573	3.52354	0.2453188	2.6310944	37	4	1980-2000	0.66	M-v	2	Williams	39405 2000 CG ₆₃
2000 CJ ₆₃	14.0	0.15	20000226	333.94204	237.18072	323.16864	12.19128	0.1311553	2.6408633	43	1	124 days	0.64	M-v	4	Williams	2000 CJ ₆₃
2000 CK ₆₃	13.0	0.15	20000226	149.19069	175.65982	199.93103	9.68244	0.0551524	3.0227344	49	1	94 days	0.56	M-v	4	Williams	39595 2000 CK ₆₃
2000 CN ₆₃	12.8	0.15	20000226	48.61753	135.64352	334.33112	18.38617	0.1171869	3.1511053	47	1	93 days	0.60	M-v	4	Williams	2000 CN ₆₃
2000 CP ₆₃	13.8	0.15	20000226	98.18310	247.22336	170.13776	13.80907	0.1141069	2.6153142	57	1	66 days	0.53	M-v	4	Williams	2000 CP ₆₃
2000 CQ ₆₃	13.4	0.15	20000226	67.73751	150.16306	307.76106	4.97553	0.0295951	2.6815618	82	3	1991-2000	0.69	M-v	2	Williams	39405 2000 CQ ₆₃
2000 CR ₆₃	13.4	0.15	20000226	194.11664	157.59654	182.05027	16.17903	0.1449721	2.7239065	31	1	66 days	0.60	M-v	6	Williams	2000 CR ₆₃
2000 CU ₆₃	15.9	0.15	20000226	23.95099	270.82002	217.83667	4.71655	0.1637181	2.3426106	24	1	62 days	0.54	M-v	5	Williams	2000 CU ₆₃
2000 CW ₆₃	14.7	0.15	20000226	209.47236	44.52312	276.53083	3.28074	0.1660645	2.2133425	41	3	1978-2000	0.71	M-v	4	Williams	39405 2000 CW ₆₃
2000 CX ₆₃	15.5	0.15	20000226	18.80080	325.99369	172.57205	8.87213	0.1326404	2.3585696	49	2	1998-2000	0.59	M-v	4	Williams	39405 2000 CX ₆₃
2000 CZ ₆₃	13.7	0.15	20000226	228.07634	343.04819	321.63506	3.74330	0.0627404	2.8079414	63	4	1991-2000	0.65	M-v	1	Williams	39406 2000 CZ ₆₃
2000 CA ₆₄	14.1	0.15	20000226	324.22415	241.83918	330.28262	11.16351	0.0945507	2.2739006	34	1	65 days	0.59	M-v	4	Williams	2000 CA ₆₄

2000 CB ₆₄	15.0	0.15	20000226	312.38598	73.48894	162.73125	23.23465	0.2065484	2.3016380	39	1	66 days	0.39	M-v	4	Williams	2000 CB ₆₄
2000 CC ₆₄	13.7	0.15	20000226	331.77885	249.93361	334.18344	13.84229	0.2893495	3.0814735	23	1	87 days	0.51	M-v	4	Williams	2000 CC ₆₄
2000 CF ₆₄	14.0	0.15	20000226	359.83679	293.70642	211.75353	11.22694	0.0918993	2.7234707	41	2	1998-2000	0.74	M-v	4	Williams	39406 2000 CF ₆₄
2000 CL ₆₅	14.7	0.15	20000206	330.57183	210.95339	334.16520	3.28707	0.1633397	2.6162892	69	1	39 days	0.44			Williams	2000 CL ₆₅
2000 CM ₆₅	14.0	0.15	20000226	41.97622	150.30903	311.47071	0.57453	0.1216877	3.0536574	68	2	1998-2000	0.56	M-v	3	Williams	39407 2000 CM ₆₅
2000 CN ₆₅	15.4	0.15	20000226	49.32920	313.22902	144.94459	6.49387	0.0756217	2.3942679	43	2	1998-2000	0.65	M-v	4	Williams	39407 2000 CN ₆₅
2000 CS ₆₅	13.9	0.15	20000226	237.68571	310.96957	333.51941	1.22952	0.0865930	2.9226398	47	2	1977-2000	0.50	M-v	4	Williams	39407 2000 CS ₆₅
2000 CR ₆₆	16.1	0.15	20000226	338.34528	224.40549	316.34535	3.13817	0.1310392	2.5853196	33	2	1997-2000	0.53	M-v	4	Williams	39408 2000 CR ₆₆
2000 CS ₆₆	14.7	0.15	20000226	292.07673	252.12846	2.96229	7.16637	0.0762577	2.2630446	55	2	1994-2000	0.67	M-v	4	Williams	39408 2000 CS ₆₆
2000 CB ₆₇	14.6	0.15	20000226	316.40225	235.74617	359.50313	7.24584	0.1419223	2.3263527	58	1	64 days	0.39	M-v	4	Williams	2000 CB ₆₇
2000 CH ₆₇	11.1	0.15	20000226	67.71478	318.81000	155.56500	23.86463	0.1518249	3.9988409	61	3	1991-2000	0.53	M-v	2	Williams	39408 2000 CH ₆₇
2000 CR ₆₈	14.5	0.15	20000117	249.26859	123.53189	139.24291	5.48732	0.1922917	3.2514038	12	1	6 days	0.75		E	Williams	2000 CR ₆₈
2000 CB ₇₀	14.0	0.15	20000226	292.22684	58.30756	190.67128	5.58261	0.1863514	2.3116947	40	2	1994-2000	0.55	M-v	4	Williams	39408 2000 CB ₇₀
2000 CH ₇₀	14.9	0.15	20000226	299.24154	298.52198	297.17433	11.67655	0.1370705	2.5264799	35	1	57 days	0.47			Williams	2000 CH ₇₀
2000 CK ₇₀	13.4	0.15	20000226	246.44854	347.71825	301.65065	11.67988	0.1399999	2.6225041	49	1	90 days	0.60	M-v	4	Williams	39595 2000 CK ₇₀
2000 CL ₇₀	13.8	0.15	20000226	264.38111	84.86203	195.30254	11.77551	0.2151948	2.4335335	45	3	1990-2000	0.61	M-v	3	Williams	39409 2000 CL ₇₀
2000 CO ₇₀	14.5	0.15	20000226	3.59350	213.74324	304.37799	12.69154	0.1485679	2.7448764	36	1	84 days	0.49	M-v	4	Williams	2000 CO ₇₀
2000 CQ ₇₀	13.6	0.15	20000226	218.15352	8.04902	303.70285	6.40429	0.1387804	2.3056884	40	1	66 days	0.62	M-v	5	Williams	2000 CQ ₇₀
2000 CS ₇₀	13.8	0.15	20000226	55.47939	134.20399	323.89420	13.75842	0.0946133	2.9517203	35	1	87 days	0.73	M-v	5	Williams	2000 CS ₇₀
2000 CV ₇₀	15.1	0.15	20000226	271.26334	349.31994	277.82389	4.37550	0.1374009	2.1790588	25	1	61 days	0.60	M-v	5	Williams	2000 CV ₇₀
2000 CX ₇₀	15.1	0.15	20000226	65.38010	212.93749	213.85906	5.37852	0.2646791	2.2518375	34	1	62 days	0.58	M-v	5	Williams	2000 CX ₇₀
2000 CY ₇₀	14.1	0.15	20000226	19.29675	308.63592	193.56287	12.10603	0.0927210	2.7015217	40	1	88 days	0.54	M-v	4	Williams	2000 CY ₇₀
2000 CA ₇₁	14.9	0.15	20000226	310.63644	1.79708	226.34171	4.89537	0.1524913	2.2698848	26	1	61 days	0.74	M-v	5	Williams	2000 CA ₇₁
2000 CE ₇₁	12.8	0.15	20000226	208.40171	14.59610	314.25057	11.25646	0.1331676	3.0445271	29	1	93 days	0.64	M-v	5	Williams	2000 CE ₇₁
2000 CG ₇₁	13.8	0.15	20000226	38.29579	148.17596	337.58233	14.64827	0.0406759	2.6414898	41	1	66 days	0.52	M-v	4	Williams	2000 CG ₇₁
2000 CH ₇₁	14.8	0.15	20000226	355.81507	231.03723	301.17354	2.57157	0.1047837	2.6098950	36	1	57 days	0.57			Williams	2000 CH ₇₁
2000 CJ ₇₁	15.1	0.15	20000226	45.00577	201.83344	268.28424	2.14105	0.1259248	2.4123421	49	2	1989-2000	0.71	M-v	5	Williams	39409 2000 CJ ₇₁
2000 CL ₇₁	13.8	0.15	20000226	323.09957	36.07330	180.66797	14.46270	0.1472444	2.5507855	54	1	96 days	0.51	M-v	4	Williams	2000 CL ₇₁
2000 CM ₇₁	15.4	0.15	20000226	13.04214	211.04489	298.73859	1.54485	0.1296545	2.3868206	51	1	61 days	0.58	M-v	5	Williams	2000 CM ₇₁
2000 CN ₇₁	14.0	0.15	20000226	322.92993	255.57887	322.46520	4.20582	0.1545084	2.8803113	43	1	61 days	0.59	M-v	4	Williams	2000 CN ₇₁
2000 CO ₇₁	14.3	0.15	20000226	41.70108	306.50253	168.84791	11.09577	0.1239015	2.5308994	77	3	1996-2000	0.61	M-v	2	Williams	39409 2000 CO ₇₁
2000 CP ₇₁	14.3	0.15	20000226	357.72580	326.73021	195.69918	11.30196	0.1158447	2.6203111	54	1	88 days	0.59	M-v	4	Williams	39596 2000 CP ₇₁
2000 CR ₇₁	13.1	0.15	20000226	254.44795	54.24221	213.32109	9.85496	0.0073811	3.0020821	49	2	1998-2000	0.49	M-v	4	Williams	39409 2000 CR ₇₁
2000 CH ₇₂	16.6	0.15	20000226	3.47416	77.09552	80.07574	6.12548	0.4065904	2.6935426	31	1	63 days	0.48	M-v	4	Williams	39596 2000 CH ₇₂
2000 CL ₇₂	14.6	0.15	20000226	113.93877	52.88363	339.92486	3.77974	0.0630473	2.1970489	75	3	1997-2000	0.63	M-v	3	Williams	39409 2000 CL ₇₂
2000 CE ₇₃	13.8	0.15	20000226	149.61373	20.93394	318.84029	11.64491	0.2559042	2.6921872	41	4	1971-2000	0.54	M-v	3	Williams	39410 2000 CE ₇₃
2000 CJ ₇₅	14.9	0.15	20000226	316.24306	186.58924	19.21194	1.10453	0.1315652	2.2694862	63	2	1998-2000	0.46	M-v	4	Williams	39410 2000 CJ ₇₅
2000 CR ₇₅	14.0	0.15	20000226	250.29443	345.43499	292.38376	13.32734	0.0464766	2.5910719	33	1	84 days	0.53	M-v	4	Williams	39596 2000 CR ₇₅
2000 CS ₇₅	14.8	0.15	20000226	303.77708	18.21350	211.17918	12.41653	0.1068769	2.5441243	33	1	57 days	0.56			Williams	2000 CS ₇₅
2000 CT ₇₅	12.8	0.15	20000226	304.70964	39.35589	191.37910	16.60464	0.1169485	3.1172126	47	3	1997-2000	0.67	M-v	3	Williams	39411 2000 CT ₇₅
2000 CC ₇₆	13.1	0.15	20000226	331.09464	236.79572	334.14584	6.38128	0.0864583	2.4363033	45	1	91 days	0.52	M-v	4	Williams	2000 CC ₇₆
2000 CD ₇₆	13.9	0.15	20000226	338.41269	214.02820	333.59970	14.56676	0.1344750	3.1011228	32	1	60 days	0.44	M-v	5	Williams	2000 CD ₇₆
2000 CE ₇₆	14.6	0.15	20000226	12.51648	352.15575	151.72472	7.03731	0.0616484	2.4571374	78	2	1998-2000	0.56	M-v	3	Williams	39411 2000 CE ₇₆
2000 CF ₇₆	15.9	0.15	20000226	325.59144	16.94999	184.30544	1.53980	0.1158869	2.2933718	35	1	66 days	0.57	M-v	5	Williams	2000 CF ₇₆
2000 CN ₇₆	13.5	0.15	20000226	290.38154	216.41081	21.43074	2.16665	0.1248330	3.1369197	57	2	1978-2000	0.49	M-v	4	Williams	39411 2000 CN ₇₆
2000 CQ ₇₆	14.1	0.15	20000226	45.08107	38.97905	58.00407	1.90122	0.1720767	3.2026574	81	3	1977-2000	0.56	M-v	3	Williams	39411 2000 CQ ₇₆
2000 CS ₇₆	13.3	0.15	20000226	264.48469	143.47469	137.06772	7.23439	0.2468191	3.0901712	49	1	59 days	0.64			Williams	2000 CS ₇₆
2000 CU ₇₆	15.8	0.15	20000226	313.49519	179.72084	36.41512	1.78733	0.1179244	2.2663646	59	1	59 days	0.64			Williams	2000 CU ₇₆
2000 CX ₇₆	15.7	0.15	20000226	299.10091	238.88194	358.15727	4.21474	0.1590189	2.2536601	44	1	53 days	0.52			Williams	2000 CX ₇₆
2000 CY ₇₆	14.1	0.15	20000226	318.17916	230.72675	351.14418	16.37379	0.1705979	2.5832053	64	2	1993-2000	0.54	M-v	3	Williams	39412 2000 CY ₇₆
2000 CZ ₇₆	15.9	0.15	20000226	46.01810	124.76504	343.96409	9.15301	0.1373636	2.3983691	32	1	54 days	1.08			Williams	2000 CZ ₇₆
2000 CB ₇₇	14.5	0.15	20000226	349.45998	194.47666	347.07353	2.08701	0.1376403	2.4258173	56	1	95 days	0.52	M-v	3	Williams	39596 2000 CB ₇₇
2000 CC ₇₇	13.4	0.15	20000226	45.14409	316.67252	163.56914	10.85242	0.0590136	3.0629626	52	2	1998-2000	0.59	M-v	3	Williams	39412 2000 CC ₇₇

2000 APR. 18

M.P.C. 40455

2000 CD ₇₇	12.9	0.15	20000226	208.57669	340.04860	350.45347	12.74259	0.1832914	2.6808766	73	1	62 days	0.52	M-v	5	Williams	2000 CD ₇₇
2000 CE ₇₇	15.9	0.15	20000226	14.69674	357.50977	153.60481	6.56506	0.0574756	2.3351786	38	1	58 days	0.56			Williams	2000 CE ₇₇
2000 CF ₇₇	14.2	0.15	20000226	306.77872	231.26451	5.83319	1.97765	0.1460460	2.4482744	60	1	60 days	0.61	M-v	5	Williams	2000 CF ₇₇
2000 CG ₇₇	13.3	0.15	20000226	202.62226	332.82365	356.81720	2.37180	0.0556908	2.7694060	84	3	1997–2000	0.58	M-v	3	Williams	39412 2000 CG ₇₇
2000 CL ₇₇	14.2	0.15	20000206	266.41739	103.30533	144.46579	6.81563	0.0852580	3.2156046	50	1	32 days	0.74			Williams	2000 CL ₇₇
2000 CM ₇₇	15.1	0.15	20000226	226.77480	330.22665	327.50471	2.90534	0.2436852	2.3261312	35	2	1994–2000	0.54	M-v	5	Williams	39413 2000 CM ₇₇
2000 CO ₇₇	14.4	0.15	20000226	320.75646	220.52722	343.00910	16.75339	0.1023249	3.0829182	38	1	65 days	0.43	M-v	5	Williams	2000 CO ₇₇
2000 CV ₇₇	15.4	0.15	20000226	255.48067	330.22041	310.09620	2.87601	0.2124615	2.3706930	36	3	1979–2000	0.65	M-v	4	Williams	39413 2000 CV ₇₇
2000 CW ₇₇	15.5	0.15	20000226	31.94754	158.12312	320.11635	5.48290	0.0674023	2.3531538	34	2	1993–2000	0.39	M-v	4	Williams	39413 2000 CW ₇₇
2000 CZ ₇₇	14.5	0.15	20000226	192.49048	118.37809	205.72061	1.18416	0.0661623	2.9440476	34	2	1993–2000	0.61	M-v	5	Williams	39413 2000 CZ ₇₇
2000 CC ₇₈	16.0	0.15	20000226	128.64942	220.41017	159.48836	5.76441	0.0822906	2.7432391	17	1	56 days	0.33			Williams	2000 CC ₇₈
2000 CD ₇₈	16.2	0.15	20000226	278.19319	80.36225	174.89397	1.27579	0.1573581	2.4136888	28	1	52 days	0.65			Williams	2000 CD ₇₈
2000 CG ₇₈	16.8	0.15	20000226	67.30796	105.12321	327.96176	6.01580	0.1389143	2.3243658	16	1	57 days	0.57			Williams	2000 CG ₇₈
2000 CJ ₇₈	16.1	0.15	20000226	228.44779	335.97616	326.43311	1.85798	0.2024732	2.3534999	30	1	59 days	0.77			Williams	2000 CJ ₇₈
2000 CM ₇₈	13.0	0.15	20000226	97.34822	256.39734	145.50905	1.84310	0.1764310	3.2262183	50	2	1997–2000	0.61	M-v	4	Williams	39413 2000 CM ₇₈
2000 CR ₇₉	14.8	0.15	20000226	256.69114	115.30799	162.40116	6.38870	0.1461152	2.3199652	40	1	67 days	0.50	M-v	4	Williams	2000 CR ₇₉
2000 CV ₇₉	13.4	0.15	20000226	215.35180	155.49315	160.28532	12.10468	0.1925995	2.6474767	59	1	67 days	0.50	M-v	5	Williams	2000 CV ₇₉
2000 CC ₈₀	17.0	0.15	20000206	317.44887	58.41201	155.22366	6.75507	0.1757802	2.5634569	15	1	32 days	0.40			Williams	2000 CC ₈₀
2000 CO ₈₀	15.8	0.15	20000226	43.13116	120.41870	339.79010	28.06711	0.2160499	2.6067062	36	1	58 days	0.71			Williams	2000 CO ₈₀
2000 CW ₈₀	14.1	0.15	20000226	168.85302	308.50446	16.86386	4.42377	0.0703652	2.7935900	30	1	80 days	0.44	M-v	5	Williams	2000 CW ₈₀
2000 CY ₈₀	15.0	0.15	20000226	282.07367	82.50832	181.92663	3.85643	0.1734938	2.1813479	81	3	1997–2000	0.65	M-v	4	Williams	39414 2000 CY ₈₀
2000 CD ₈₁	15.3	0.15	20000226	57.49114	292.25467	140.96569	5.71264	0.1362255	2.3782972	50	2	1993–2000	0.53	M-v	5	Williams	39415 2000 CD ₈₁
2000 CH ₈₁	14.8	0.15	20000226	331.31664	34.17992	145.94509	8.16685	0.0541411	2.4688131	55	1	64 days	0.54	M-v	4	Williams	39597 2000 CH ₈₁
2000 CN ₈₁	14.9	0.15	20000226	258.73744	125.65648	143.52852	4.47666	0.1874902	2.2095330	74	2	1998–2000	0.52	M-v	4	Williams	39415 2000 CN ₈₁
2000 CO ₈₁	14.0	0.15	20000226	341.60581	28.00089	146.38543	0.77233	0.1658293	3.0666373	73	2	1998–2000	0.40	M-v	4	Williams	39415 2000 CO ₈₁
2000 CV ₈₁	15.5	0.15	20000226	358.08691	115.91211	36.99500	1.50261	0.1428180	2.3243967	42	2	1998–2000	0.49	M-v	4	Williams	39416 2000 CV ₈₁
2000 CW ₈₁	13.8	0.15	20000206	320.11156	67.69682	132.39538	6.03958	0.1750816	3.1392570	49	1	58 days	0.69			Williams	2000 CW ₈₁
2000 CC ₈₂	14.3	0.15	20000226	258.43987	275.49826	345.98112	4.46305	0.0959825	2.3182700	56	1	101 days	0.48	M-v	4	Williams	39597 2000 CC ₈₂
2000 CE ₈₂	14.7	0.15	20000226	291.39133	259.58983	339.06870	4.70210	0.1702450	2.2329320	55	1	95 days	0.48	M-v	4	Williams	2000 CE ₈₂
2000 CH ₈₂	15.6	0.15	20000206	340.62799	31.68650	136.91752	10.93817	0.1050053	2.3617310	27	1	36 days	0.47			Williams	2000 CH ₈₂
2000 CK ₈₂	15.9	0.15	20000206	41.85531	74.32878	11.21062	2.12840	0.1862801	2.3830215	49	1	58 days	0.41			Williams	2000 CK ₈₂
2000 CM ₈₂	14.0	0.15	20000226	231.56908	316.31923	335.07418	6.19017	0.1594245	2.5315071	56	1	61 days	0.55	M-v	5	Williams	2000 CM ₈₂
2000 CN ₈₂	14.3	0.15	20000226	54.40843	114.59754	329.17416	8.81399	0.1284232	2.7502020	52	2	1998–2000	0.50	M-v	3	Williams	39417 2000 CN ₈₂
2000 CO ₈₂	13.9	0.15	20000226	211.56288	327.45217	333.84580	9.00369	0.0320963	3.0618317	40	1	61 days	0.54	M-v	5	Williams	2000 CO ₈₂
2000 CQ ₈₂	15.3	0.15	20000206	5.93583	169.19391	328.53570	2.84468	0.1048918	2.2926975	33	1	58 days	0.51			Williams	2000 CQ ₈₂
2000 CU ₈₂	13.9	0.15	20000226	210.29889	324.87215	339.64575	1.44808	0.0449534	2.8025356	54	2	1998–2000	0.61	M-v	5	Williams	39417 2000 CU ₈₂
2000 CW ₈₂	15.2	0.15	20000226	67.98971	310.81790	119.33247	3.67243	0.1173339	2.2015505	52	1	98 days	0.55	M-v	5	Williams	39597 2000 CW ₈₂
2000 CY ₈₂	14.1	0.15	20000206	280.71568	108.79319	134.81799	7.16445	0.1454948	3.0950458	30	1	52 days	0.46			Williams	2000 CY ₈₂
2000 CD ₈₃	14.7	0.15	20000226	254.05238	278.59961	349.47315	6.53176	0.0984673	2.3641956	44	3	1993–2000	0.60	M-v	3	Williams	39418 2000 CD ₈₃
2000 CF ₈₃	12.6	0.15	20000226	208.06357	166.67801	143.69518	10.04694	0.1473383	2.7769176	66	4	1988–2000	0.49	M-v	1	Williams	39418 2000 CF ₈₃
2000 CN ₈₃	13.8	0.15	20000226	313.60150	242.08050	334.19162	25.83176	0.1870385	3.1214661	56	1	64 days	0.55	M-v	4	Williams	2000 CN ₈₃
2000 CP ₈₃	15.0	0.15	20000226	316.54517	214.51629	353.65906	5.44961	0.1353690	2.3423842	44	2	1998–2000	0.51	M-v	4	Williams	39419 2000 CP ₈₃
2000 CR ₈₃	13.9	0.15	20000226	252.10165	263.56385	16.48164	3.42609	0.2006042	2.2649111	64	3	1997–2000	0.57	M-v	3	Williams	39419 2000 CR ₈₃
2000 CT ₈₃	13.3	0.15	20000226	324.08751	58.80390	138.35263	7.21106	0.1083711	3.1887588	48	1	98 days	0.48	M-v	4	Williams	2000 CT ₈₃
2000 CZ ₈₃	13.6	0.15	20000226	249.41851	162.59696	112.76709	1.58658	0.1209376	2.9859422	50	1	61 days	0.55	M-v	5	Williams	2000 CZ ₈₃
2000 CA ₈₄	14.2	0.15	20000226	265.54788	135.57418	126.37752	1.81062	0.1322190	3.1718078	36	1	59 days	0.52			Williams	2000 CA ₈₄
2000 CB ₈₄	14.5	0.15	20000226	41.69242	320.82217	143.24844	6.39580	0.0888966	2.2651507	89	3	1991–2000	0.64	M-v	2	Williams	39420 2000 CB ₈₄
2000 CD ₈₄	14.8	0.15	20000226	303.54664	265.15482	325.64714	2.34500	0.1998817	2.7906100	43	2	1995–2000	0.58	M-v	4	Williams	39420 2000 CD ₈₄
2000 CG ₈₄	15.3	0.15	20000226	25.40855	328.59799	147.38629	12.84605	0.1962360	2.6831140	50	1	61 days	0.49	M-v	4	Williams	2000 CG ₈₄
2000 CL ₈₄	14.2	0.15	20000226	219.79690	309.24095	349.45638	2.49505	0.0626241	2.6742590	60	3	1993–2000	0.55	M-v	3	Williams	39420 2000 CL ₈₄
2000 CR ₈₄	14.3	0.15	20000226	207.62038	268.53081	40.74073	2.64748	0.0798638	2.9268272	35	1	59 days	0.92			Williams	2000 CR ₈₄
2000 CY ₈₄	13.7	0.15	20000226	355.70580	174.39930	344.93439	11.14541	0.1832920	3.0796178	61	3	1997–2000	0.59	M-v	3	Williams	39421 2000 CY ₈₄
2000 CZ ₈₄	14.0	0.15	20000226	82.05110	305.36495	110.23430	6.00096	0.1367432	3.1326447	40	2	1998–2000	0.68	M-v	4	Williams	39421 2000 CZ ₈₄

2000 CA ₈₅	13.8	0.15	20000226	126.44587	230.73208	141.28379	11.43978	0.1903334	2.6463546	39	1	62 days	0.58	M-v	6	Williams	2000 CA ₈₅
2000 CG ₈₅	12.8	0.15	20000226	114.61613	53.08525	337.62173	15.83668	0.0913582	3.2322103	75	3	1994–2000	0.64	M-v	3	Williams	39421 2000 CG ₈₅
2000 CK ₈₅	16.5	0.15	20000206	37.41627	48.33735	56.33388	2.98815	0.0830923	2.4211871	23	1	37 days	0.66			Williams	2000 CK ₈₅
2000 CL ₈₅	14.2	0.15	20000226	343.14544	63.88455	111.67691	5.81877	0.1049500	3.0918252	50	1	62 days	0.64	M-v	5	Williams	2000 CL ₈₅
2000 CN ₈₅	14.3	0.15	20000226	276.00326	129.30766	111.83073	3.19490	0.0184305	2.8456397	33	1	62 days	0.55	M-v	5	Williams	2000 CN ₈₅
2000 CR ₈₅	15.8	0.15	20000226	340.33290	201.98876	340.44702	4.88573	0.1652461	2.3902720	51	1	65 days	0.35	M-v	4	Williams	2000 CR ₈₅
2000 CU ₈₅	16.7	0.15	20000206	333.77191	47.81889	133.71936	5.46601	0.1270691	2.3053071	38	1	40 days	0.44			Williams	2000 CU ₈₅
2000 CV ₈₅	13.3	0.15	20000226	247.14041	154.90880	119.12430	3.36598	0.0624015	2.9238728	42	1	62 days	0.34	M-v	4	Williams	2000 CV ₈₅
2000 CX ₈₅	13.2	0.15	20000226	329.79726	50.06960	146.29590	8.52520	0.1572465	2.7762742	74	1	147 days	0.40	M-v	3	Williams	39598 2000 CX ₈₅
2000 CY ₈₅	13.8	0.15	20000226	223.80467	159.14102	146.66963	7.56728	0.2281217	2.3565663	56	1	84 days	0.49	M-v	4	Williams	2000 CY ₈₅
2000 CA ₈₆	13.8	0.15	20000226	340.16642	143.48415	37.21587	0.35678	0.1107536	3.0321935	60	2	1995–2000	0.38	M-v	4	Williams	39422 2000 CA ₈₆
2000 CC ₈₆	14.9	0.15	20000226	218.20769	327.46198	333.80808	6.24397	0.0571945	2.2456134	46	2	1998–2000	0.60	M-v	4	Williams	39422 2000 CC ₈₆
2000 CD ₈₆	14.3	0.15	20000226	261.69285	265.89618	4.57385	1.36542	0.1475401	3.0558395	41	1	59 days	0.50			Williams	2000 CD ₈₆
2000 CE ₈₆	16.0	0.15	20000226	32.95042	123.13409	353.22802	2.45441	0.0932540	2.5792713	51	1	59 days	0.73			Williams	2000 CE ₈₆
2000 CJ ₈₆	15.3	0.15	20000226	47.38637	9.62425	84.13156	3.30520	0.1448913	2.4407035	50	3	1960–2000	0.44	M-v	4	Williams	39423 2000 CJ ₈₆
2000 CK ₈₆	13.5	0.15	20000226	171.10652	224.73599	116.42326	6.91856	0.1800051	2.2996232	63	3	1991–2000	0.60	M-v	3	Williams	39423 2000 CK ₈₆
2000 CN ₈₆	14.2	0.15	20000226	229.98997	317.28758	344.52401	11.90191	0.2174453	2.4358946	39	1	61 days	0.45	M-v	5	Williams	2000 CN ₈₆
2000 CP ₈₆	13.6	0.15	20000226	198.38267	217.63977	104.49988	5.90172	0.1249935	2.2705184	66	3	1991–2000	0.50	M-v	3	Williams	39423 2000 CP ₈₆
2000 CQ ₈₆	14.7	0.15	20000226	60.42666	90.70234	352.20578	6.15311	0.1221887	2.2294935	38	1	110 days	0.47	M-v	4	Williams	2000 CQ ₈₆
2000 CS ₈₆	15.8	0.15	20000226	356.88477	163.01224	357.39537	5.32819	0.0888970	2.2593966	42	2	1998–2000	0.50	M-v	4	Williams	39423 2000 CS ₈₆
2000 CT ₈₆	15.2	0.15	20000226	15.19010	12.88184	126.58019	6.77594	0.0751360	2.4812161	31	1	59 days	0.46			Williams	2000 CT ₈₆
2000 CU ₈₆	13.1	0.15	20000226	60.06488	107.71404	342.26743	21.47208	0.0654674	3.1115221	46	1	84 days	0.47	M-v	4	Williams	2000 CU ₈₆
2000 CV ₈₆	14.7	0.15	20000226	51.81964	318.31495	121.38506	6.42322	0.2393311	2.6383269	38	2	1987–2000	0.52	M-v	4	Williams	39424 2000 CV ₈₆
2000 CW ₈₆	13.8	0.15	20000226	24.62068	67.40623	63.97913	3.51334	0.0323414	2.9064272	35	1	62 days	0.49	M-v	4	Williams	2000 CW ₈₆
2000 CY ₈₆	14.4	0.15	20000226	16.79436	156.73096	341.79583	13.42585	0.0462290	2.5988397	44	1	61 days	0.54	M-v	4	Williams	2000 CY ₈₆
2000 CZ ₈₆	14.0	0.15	20000226	341.68095	194.89496	341.57988	14.77199	0.0367058	2.5602465	46	1	89 days	0.50	M-v	4	Williams	2000 CZ ₈₆
2000 CA ₈₇	14.9	0.15	20000206	278.80530	240.88887	356.22276	3.09287	0.0334433	2.7486810	48	1	39 days	0.52			Williams	2000 CA ₈₇
2000 CB ₈₇	13.9	0.15	20000226	244.57188	303.77669	339.13443	7.86971	0.1106305	2.7222957	48	1	62 days	0.57	M-v	4	Williams	2000 CB ₈₇
2000 CD ₈₇	14.8	0.15	20000226	250.81788	296.75921	343.72122	5.46491	0.1472807	2.1889009	64	3	1997–2000	0.55	M-v	3	Williams	39424 2000 CD ₈₇
2000 CE ₈₇	15.4	0.15	20000226	20.57800	348.55539	145.01811	6.56933	0.0473783	2.3758923	44	2	1998–2000	0.63	M-v	4	Williams	39424 2000 CE ₈₇
2000 CH ₈₇	14.0	0.15	20000226	240.96189	192.54845	100.44614	1.97531	0.1793734	2.6330850	53	4	1976–2000	0.65	M-v	2	Williams	39424 2000 CH ₈₇
2000 CK ₈₇	13.7	0.15	20000226	102.23554	254.00268	138.34819	8.36858	0.2317480	2.7800602	44	1	59 days	0.65			Williams	2000 CK ₈₇
2000 CL ₈₇	14.7	0.15	20000226	64.20047	83.72295	0.67973	7.14313	0.0710953	2.3085448	47	2	1998–2000	0.63	M-v	4	Williams	39424 2000 CL ₈₇
2000 CM ₈₇	13.5	0.15	20000226	234.66299	174.90098	119.33984	7.30642	0.1448609	2.3325968	60	3	1989–2000	0.52	M-v	2	Williams	39425 2000 CM ₈₇
2000 CN ₈₇	13.5	0.15	20000226	160.69318	218.33930	133.66212	14.85063	0.1480352	2.5536983	46	1	84 days	0.54	M-v	4	Williams	2000 CN ₈₇
2000 CO ₈₇	15.0	0.15	20000226	291.61095	261.87646	322.68119	6.50471	0.0709255	2.3422981	54	2	1994–2000	0.58	M-v	4	Williams	39425 2000 CO ₈₇
2000 CQ ₈₇	13.9	0.15	20000226	127.28330	17.35986	355.86863	1.79163	0.0871138	3.1002009	47	2	1998–2000	0.76	M-v	5	Williams	39425 2000 CQ ₈₇
2000 CT ₈₇	14.7	0.15	20000206	308.56629	233.98999	333.45526	13.79597	0.0821217	2.6551213	52	1	36 days	0.54			Williams	2000 CT ₈₇
2000 CW ₈₇	13.4	0.15	20000226	267.74391	246.01514	12.99814	5.23390	0.1129020	3.1819991	55	2	1997–2000	0.57	M-v	3	Williams	39425 2000 CW ₈₇
2000 CC ₈₈	15.3	0.15	20000226	256.96810	287.95983	344.94985	7.58796	0.1264357	2.2822717	53	1	66 days	0.57	M-v	5	Williams	2000 CC ₈₈
2000 CD ₈₈	14.4	0.15	20000226	57.92598	297.45077	147.79576	17.96136	0.1342092	3.1841791	27	1	52 days	0.65			Williams	2000 CD ₈₈
2000 CF ₈₈	14.6	0.15	20000226	236.57081	158.11286	137.02751	14.53114	0.1564667	2.6602770	38	1	59 days	0.50			Williams	2000 CF ₈₈
2000 CG ₈₈	14.0	0.15	20000226	204.01603	313.88559	359.16685	1.84767	0.0579012	2.8930177	34	1	61 days	0.48	M-v	5	Williams	2000 CG ₈₈
2000 CH ₈₈	14.3	0.15	20000226	12.76663	35.48256	110.41259	7.19457	0.0851514	2.6578765	42	1	114 days	0.59	M-v	4	Williams	2000 CH ₈₈
2000 CL ₈₈	13.7	0.15	20000226	273.97824	225.41752	36.21153	6.60147	0.1261344	2.7474957	53	3	1996–2000	0.43	M-v	3	Williams	39425 2000 CL ₈₈
2000 CN ₈₈	15.2	0.15	20000226	0.92675	162.66530	356.49137	13.01383	0.2099951	2.5681995	40	1	60 days	0.42	M-v	4	Williams	2000 CN ₈₈
2000 CO ₈₈	14.7	0.15	20000226	110.90746	16.64127	8.79084	11.58758	0.2706344	2.4037438	45	1	59 days	0.55			Williams	2000 CO ₈₈
2000 CT ₈₈	15.1	0.15	20000226	322.47651	206.20661	2.83290	12.57476	0.1205491	2.6898296	38	1	59 days	0.41			Williams	2000 CT ₈₈
2000 CU ₈₈	15.2	0.15	20000226	60.05759	334.81122	99.39346	5.49895	0.2538802	2.5639406	31	1	59 days	0.53			Williams	2000 CU ₈₈
2000 CV ₈₈	13.2	0.15	20000226	277.43087	132.23287	135.31510	10.94562	0.1646129	2.9300022	36	1	63 days	0.43	M-v	4	Williams	2000 CV ₈₈
2000 CW ₈₈	15.3	0.15	20000226	346.55625	62.74273	122.79214	8.18740	0.2179177	2.5539765	31	1	64 days	0.56	M-v	4	Williams	2000 CW ₈₈
2000 CX ₈₈	16.1	0.15	20000226	7.99458	147.08146	6.48798	5.91960	0.0978867	2.3429887	27	1	59 days	0.44			Williams	2000 CX ₈₈
2000 CZ ₈₈	15.0	0.15	20000226	258.90438	155.12826	117.47131	5.06893	0.0649587	2.2598188	46	3	1997–2000	0.63	M-v	3	Williams	39426 2000 CZ ₈₈

2000 CA ₈₉	12.6	0.15	20000226	206.30988	176.53454	150.52258	23.26933	0.0834925	3.1814438	37	1	67 days	0.60	M-v	4	Williams	2000 CA ₈₉
2000 CB ₈₉	12.9	0.15	20000226	171.35412	230.85272	122.40264	9.64914	0.2928019	2.5400621	47	2	1998-2000	0.71	M-v	4	Williams	39426 2000 CB ₈₉
2000 CE ₈₉	13.3	0.15	20000226	198.03061	322.27650	13.02099	13.65100	0.1895486	2.5430563	46	1	94 days	0.52	M-v	4	Williams	2000 CE ₈₉
2000 CG ₈₉	13.3	0.15	20000226	188.83872	201.54416	133.95807	13.29360	0.1823410	2.5894073	53	2	1998-2000	0.56	M-v	4	Williams	39426 2000 CG ₈₉
2000 CH ₈₉	14.0	0.15	20000226	239.16100	222.62759	69.15819	5.96175	0.0917730	2.7392633	41	2	1998-2000	0.61	M-v	4	Williams	39426 2000 CH ₈₉
2000 CK ₈₉	15.0	0.15	20000226	105.94949	14.70715	34.26775	4.31750	0.0691976	2.5288327	37	2	1998-2000	0.70	M-v	4	Williams	39426 2000 CK ₈₉
2000 CL ₈₉	14.6	0.15	20000226	88.45353	36.60207	18.29728	6.98229	0.1783685	3.0529168	29	1	59 days	0.76			Williams	2000 CL ₈₉
2000 CN ₈₉	14.7	0.15	20000226	272.71589	235.77653	28.55515	6.72713	0.1194923	2.6074940	29	1	59 days	0.69			Williams	2000 CN ₈₉
2000 CP ₈₉	14.5	0.15	20000226	265.85725	144.49866	128.38529	7.02911	0.1283009	2.3978797	41	1	67 days	0.56	M-v	5	Williams	2000 CP ₈₉
2000 CQ ₈₉	13.4	0.15	20000226	80.68953	84.72123	354.45057	21.87086	0.0459467	2.6642511	36	1	61 days	0.50	M-v	5	Williams	2000 CQ ₈₉
2000 CS ₈₉	15.5	0.15	20000226	299.39363	140.54563	101.31847	4.56730	0.1464863	2.1821708	50	2	1997-2000	0.68	M-v	4	Williams	39599 2000 CS ₈₉
2000 CK ₉₀	14.1	0.15	20000226	42.13358	50.79437	60.74831	4.55189	0.0318476	2.7336013	45	1	62 days	0.49	M-v	4	Williams	2000 CK ₉₀
2000 CO ₉₀	15.3	0.15	20000226	329.61214	138.70625	53.61353	4.38679	0.0935655	2.7907288	25	1	57 days	0.56			Williams	2000 CO ₉₀
2000 CA ₉₁	15.3	0.15	20000226	9.98389	352.54427	152.56290	1.89406	0.1692701	2.7293221	34	1	57 days	0.55			Williams	2000 CA ₉₁
2000 CB ₉₁	13.6	0.15	20000226	329.84395	201.76981	356.75114	0.21359	0.1282685	3.1232631	58	2	1994-2000	0.40	M-v	5	Williams	39426 2000 CB ₉₁
2000 CC ₉₁	13.5	0.15	20000226	179.61871	170.93923	170.28349	2.12569	0.0823909	2.8891153	77	2	1998-2000	0.59	M-v	4	Williams	39427 2000 CC ₉₁
2000 CE ₉₁	14.2	0.15	20000226	283.95619	260.72940	337.07140	1.86166	0.0141098	2.6293683	76	2	1998-2000	0.51	M-v	4	Williams	39427 2000 CE ₉₁
2000 CF ₉₁	14.3	0.15	20000226	341.76314	31.57939	156.25958	10.10645	0.1843337	3.0980728	57	1	66 days	0.50	M-v	4	Williams	2000 CF ₉₁
2000 CG ₉₁	15.3	0.15	20000226	21.10640	157.01385	336.91899	5.79549	0.1145337	2.2901643	57	1	86 days	0.45	M-v	4	Williams	39599 2000 CG ₉₁
2000 CH ₉₁	13.8	0.15	20000226	92.25369	268.09977	156.66689	5.68692	0.0466736	2.7415079	52	1	67 days	0.68	M-v	5	Williams	2000 CH ₉₁
2000 CJ ₉₁	15.1	0.15	20000226	289.50521	233.69145	0.00848	2.77528	0.0249971	2.6216626	45	1	57 days	0.56			Williams	2000 CJ ₉₁
2000 CL ₉₁	13.6	0.15	20000226	5.07179	154.13214	0.99466	3.94773	0.0965384	3.0735505	65	2	1998-2000	0.49	M-v	4	Williams	39427 2000 CL ₉₁
2000 CM ₉₁	13.7	0.15	20000226	164.91181	5.82279	348.96481	7.37323	0.0533756	2.6972449	59	3	1993-2000	0.64	M-v	4	Williams	39427 2000 CM ₉₁
2000 CN ₉₁	13.1	0.15	20000226	124.17917	47.92834	342.77648	9.76238	0.0844619	2.9848491	58	1	86 days	0.48	M-v	4	Williams	39599 2000 CN ₉₁
2000 CO ₉₁	15.0	0.15	20000226	288.50181	95.57423	154.58232	12.88474	0.1435689	2.7007447	35	1	57 days	0.52			Williams	2000 CO ₉₁
2000 CR ₉₁	15.4	0.15	20000226	29.53037	134.61844	353.03829	2.42317	0.0757988	2.2095081	36	1	59 days	0.39			Williams	2000 CR ₉₁
2000 CS ₉₁	14.8	0.15	20000226	286.34339	274.69878	344.30512	8.72481	0.1990168	2.3849300	32	1	59 days	0.61			Williams	2000 CS ₉₁
2000 CT ₉₁	13.3	0.15	20000226	19.98595	353.13622	145.17529	1.09247	0.1317860	3.1767547	53	1	92 days	0.47	M-v	4	Williams	39600 2000 CT ₉₁
2000 CU ₉₁	15.6	0.15	20000226	68.34145	284.76573	154.86622	3.73041	0.1342985	2.2561161	43	1	57 days	0.56			Williams	2000 CU ₉₁
2000 CV ₉₁	13.9	0.15	20000226	216.74243	314.15313	5.59688	0.34924	0.2093548	2.4720538	59	3	1978-2000	0.62	M-v	3	Williams	39428 2000 CV ₉₁
2000 CY ₉₁	14.9	0.15	20000226	41.09438	117.15341	347.42883	10.01512	0.1907200	3.0277976	33	1	58 days	0.48			Williams	2000 CY ₉₁
2000 CA ₉₂	13.5	0.15	20000226	86.43794	54.38688	21.45362	1.88157	0.0184273	2.8563807	60	2	1998-2000	0.67	M-v	3	Williams	39428 2000 CA ₉₂
2000 CB ₉₂	15.1	0.15	20000226	297.28486	216.38178	14.16271	2.21692	0.0463913	2.2642088	54	3	1997-2000	0.62	M-v	4	Williams	39428 2000 CB ₉₂
2000 CC ₉₂	13.4	0.15	20000226	122.79537	26.08934	5.57071	5.69884	0.1045599	2.7257743	35	1	57 days	0.62			Williams	2000 CC ₉₂
2000 CD ₉₂	15.4	0.15	20000226	12.78973	159.54998	344.20971	11.44505	0.1816292	2.3992999	58	1	62 days	0.54	M-v	4	Williams	2000 CD ₉₂
2000 CJ ₉₂	15.0	0.15	20000226	340.91798	45.65625	144.64086	5.45247	0.1584956	2.4319355	66	1	61 days	0.52	M-v	4	Williams	2000 CJ ₉₂
2000 CL ₉₂	13.5	0.15	20000226	35.24397	335.82256	147.36944	2.03636	0.1022179	3.1504249	54	4	1981-2000	0.55	M-v	1	Williams	39600 2000 CL ₉₂
2000 CM ₉₂	13.7	0.15	20000226	339.53678	67.04129	126.84933	0.45518	0.1507180	3.1890296	55	1	60 days	0.55	M-v	4	Williams	2000 CM ₉₂
2000 CO ₉₂	13.6	0.15	20000226	287.01579	84.83992	166.82252	3.89844	0.1005000	2.7909123	52	1	63 days	0.42	M-v	4	Williams	2000 CO ₉₂
2000 CP ₉₂	13.8	0.15	20000226	90.62199	267.43145	154.59497	7.18581	0.1189037	2.6698302	50	1	86 days	0.46	M-v	4	Williams	39600 2000 CP ₉₂
2000 CQ ₉₂	13.6	0.15	20000226	359.40946	168.40659	358.78918	4.84133	0.1322870	3.1666904	70	2	1994-2000	0.56	M-v	3	Williams	39429 2000 CQ ₉₂
2000 CT ₉₂	13.2	0.15	20000226	63.51935	73.61645	29.21069	2.23309	0.0217193	2.8478412	88	4	1977-2000	0.52	M-v	2	Williams	39429 2000 CT ₉₂
2000 CU ₉₂	12.7	0.15	20000226	260.42189	281.93703	352.21347	21.51643	0.0438936	3.2257768	62	1	62 days	0.50	M-v	5	Williams	2000 CU ₉₂
2000 CV ₉₂	15.2	0.15	20000226	46.21186	50.72786	52.43630	3.54091	0.1649071	2.3560339	44	1	86 days	0.52	M-v	4	Williams	2000 CV ₉₂
2000 CC ₉₃	14.0	0.15	20000226	180.52748	355.04536	354.00346	14.24305	0.0881390	2.3554236	52	1	62 days	0.52	M-v	5	Williams	2000 CC ₉₃
2000 CD ₉₃	14.3	0.15	20000226	301.79665	95.87200	144.38511	9.82350	0.1101769	2.6783792	51	3	1979-2000	0.74	M-v	3	Williams	39430 2000 CD ₉₃
2000 CE ₉₃	13.7	0.15	20000226	353.64575	28.22271	150.94745	9.93178	0.0868075	2.8015206	68	1	65 days	0.47	M-v	4	Williams	2000 CE ₉₃
2000 CH ₉₃	14.1	0.15	20000226	342.48750	39.17348	154.60901	18.03896	0.0864845	2.6606587	36	1	91 days	0.49	M-v	3	Williams	2000 CH ₉₃
2000 CK ₉₃	13.4	0.15	20000226	311.50785	92.52228	138.12004	9.24437	0.0898483	2.7276241	55	1	96 days	0.56	M-v	4	Williams	39600 2000 CK ₉₃
2000 CL ₉₃	14.5	0.15	20000226	13.96701	348.37054	151.12504	8.52192	0.2086952	3.0545553	40	1	57 days	0.59			Williams	2000 CL ₉₃
2000 CN ₉₃	14.0	0.15	20000226	299.77713	158.05433	103.19213	4.86700	0.2173360	2.3555287	64	2	1998-2000	0.63	M-v	4	Williams	39430 2000 CN ₉₃
2000 CO ₉₃	14.5	0.15	20000226	336.79255	106.07018	98.73525	4.01922	0.1197821	2.2547534	58	1	67 days	0.41	M-v	4	Williams	2000 CO ₉₃

2000 CZ ₉₃	16.0	0.15	20000226	36.52438	315.89741	147.28147	5.12955	0.1819293	2.3504342	45	2	1993–2000	0.56	M-v	4	Williams	39430	2000 CZ ₉₃
2000 CB ₉₄	14.8	0.15	20000226	75.11046	85.78185	349.61903	11.13932	0.1771492	2.6438856	78	2	1998–2000	0.57	M-v	3	Williams	39600	2000 CB ₉₄
2000 CC ₉₄	13.0	0.15	20000226	125.15848	47.39179	352.33944	11.55745	0.1028093	2.9157921	94	4	1992–2000	0.62	M-v	1	Williams	39430	2000 CC ₉₄
2000 CD ₉₄	13.7	0.15	20000226	359.61236	179.48645	353.97360	10.62238	0.0413589	2.9729023	61	1	62 days	0.55	M-v	5	Williams		2000 CD ₉₄
2000 CE ₉₄	14.5	0.15	20000226	25.94529	331.37011	164.04974	14.19876	0.1722858	2.7509734	44	1	60 days	0.42	M-v	4	Williams		2000 CE ₉₄
2000 CF ₉₄	13.2	0.15	20000226	3.33145	177.12844	354.44078	8.92178	0.0455277	2.9885946	75	2	1998–2000	0.53	M-v	3	Williams	39431	2000 CF ₉₄
2000 CG ₉₄	13.7	0.15	20000226	127.98355	227.25812	169.96827	15.90656	0.1202903	2.6439241	51	1	62 days	0.56	M-v	4	Williams		2000 CG ₉₄
2000 CH ₉₄	13.6	0.15	20000226	329.40765	208.96469	358.33249	10.55260	0.0354539	3.1484408	53	1	96 days	0.64	M-v	4	Williams		2000 CH ₉₄
2000 CJ ₉₄	13.4	0.15	20000226	329.55440	192.65026	20.61784	1.63950	0.1226794	3.1987571	60	1	63 days	0.56	M-v	4	Williams		2000 CJ ₉₄
2000 CL ₉₄	14.1	0.15	20000226	271.86083	131.13110	152.71173	3.90887	0.2064439	2.2479593	78	3	1997–2000	0.61	M-v	4	Williams	39431	2000 CL ₉₄
2000 CM ₉₄	13.4	0.15	20000226	15.03384	349.79699	165.20898	11.72601	0.1062473	2.5519428	60	1	157 days	0.48	M-v	3	Williams	39600	2000 CM ₉₄
2000 CN ₉₄	13.9	0.15	20000226	343.99391	186.43864	6.39617	8.47093	0.0454058	2.8008107	59	1	62 days	0.51	M-v	4	Williams		2000 CN ₉₄
2000 CP ₉₄	14.6	0.15	20000226	314.13086	235.04598	358.39617	13.33486	0.1365487	2.5569669	67	2	1993–2000	0.60	M-v	4	Williams	39431	2000 CP ₉₄
2000 CR ₉₄	14.1	0.15	20000226	40.70715	123.31130	1.94909	12.59457	0.1246896	2.5408820	93	1	95 days	0.55	M-v	4	Williams	39600	2000 CR ₉₄
2000 CS ₉₄	12.8	0.15	20000226	123.88413	233.82896	168.86560	12.70029	0.1785233	2.6898371	69	4	1991–2000	0.65	M-v	1	Williams	39431	2000 CS ₉₄
2000 CT ₉₄	14.7	0.15	20000226	26.49782	349.62980	153.95257	6.68926	0.1243371	2.3901755	40	1	60 days	0.38	M-v	5	Williams		2000 CT ₉₄
2000 CX ₉₄	13.0	0.15	20000226	110.54606	306.77060	122.31844	17.59957	0.2011661	2.6062182	34	3	1995–2000	0.76	M-v	3	Williams	38732	2000 CX ₉₄
2000 CZ ₉₄	13.4	0.15	20000226	16.38351	29.72908	131.72908	8.16217	0.1358609	2.5701690	51	1	94 days	0.54	M-v	4	Williams		2000 CZ ₉₄
2000 CF ₉₅	14.3	0.15	20000226	315.59187	216.93447	31.46605	14.28474	0.1614162	2.4318511	23	1	60 days	0.44	M-v	6	Williams		2000 CF ₉₅
2000 CL ₉₆	16.6	0.15	20000226	22.45355	153.40699	335.06207	5.46776	0.1686229	2.3240780	54	1	58 days	0.53			Williams		2000 CL ₉₆
2000 CW ₉₆	15.1	0.15	20000226	117.88231	122.70021	259.62131	6.07185	0.1345534	2.2687785	31	2	1998–2000	0.65	M-v	4	Williams	39432	2000 CW ₉₆
2000 CY ₉₆	13.5	0.15	20000226	178.04313	75.18280	261.60084	4.61624	0.1051328	2.7875753	29	1	54 days	0.87			Williams		2000 CY ₉₆
2000 CE ₉₇	15.6	0.15	20000226	24.53502	142.07995	351.74173	2.31120	0.1685770	2.2928755	54	2	1998–2000	0.56	M-v	4	Williams	39432	2000 CE ₉₇
2000 CG ₉₇	14.5	0.15	20000226	72.62710	255.31653	171.90403	16.87160	0.2508171	3.1393586	50	1	54 days	0.61			Williams		2000 CG ₉₇
2000 CH ₉₇	13.3	0.15	20000226	282.21887	105.16550	170.54026	15.38895	0.2282639	3.0741493	75	2	1996–2000	0.51	M-v	3	Williams	39432	2000 CH ₉₇
2000 CJ ₉₇	16.1	0.15	20000206	352.76662	186.42487	315.15077	4.75534	0.1647059	2.5076092	14	1	2 days	0.85		E	Williams		2000 CJ ₉₇
2000 CK ₉₇	14.5	0.15	20000226	317.52471	22.81201	172.56038	15.14056	0.0373297	2.5734740	46	2	1977–2000	0.62	M-v	4	Williams	39432	2000 CK ₉₇
2000 CL ₉₇	16.1	0.15	20000226	65.54185	92.59767	340.85951	5.80729	0.1401060	2.2893036	46	1	66 days	0.63	M-v	5	Williams		2000 CL ₉₇
2000 CM ₉₇	13.2	0.15	20000226	117.76841	20.45683	21.89916	0.63552	0.1465578	3.2058842	46	2	1998–2000	0.64	M-v	5	Williams	39432	2000 CM ₉₇
2000 CO ₉₇	14.8	0.15	20000226	58.51363	267.42353	169.69169	24.90884	0.2895269	3.1952564	50	1	55 days	0.67			Williams		2000 CO ₉₇
2000 CR ₉₇	15.4	0.15	20000226	319.46612	126.25455	94.19964	0.72404	0.1226223	2.3622944	60	1	58 days	0.90			Williams		2000 CR ₉₇
2000 CT ₉₇	16.0	0.15	20000226	143.47887	216.64228	138.30383	5.69232	0.1175619	2.2432207	37	2	1998–2000	0.50	M-v	4	Williams	39432	2000 CT ₉₇
2000 CD ₉₈	16.3	0.15	20000206	287.37895	268.09373	317.94202	3.69104	0.1405515	2.2241221	14	1	7 days	0.41			Williams		2000 CD ₉₈
2000 CE ₉₉	14.5	0.15	20000226	93.59634	261.27001	142.59066	3.75518	0.0788147	3.0583401	49	4	1995–2000	0.54	M-v	1	Williams	39433	2000 CE ₉₉
2000 CF ₉₉	15.3	0.15	20000226	21.79837	132.34946	345.49179	0.48672	0.1492561	3.0150990	31	2	1998–2000	0.52	M-v	5	Williams	39433	2000 CF ₉₉
2000 CG ₁₀₀	16.0	0.15	20000206	23.95178	145.07361	319.07136	4.87552	0.1464503	2.4090951	18	1	11 days	0.33			Williams		2000 CG ₁₀₀
2000 CH ₁₀₀	14.5	0.15	20000226	289.75370	253.24312	320.51343	5.91299	0.0205508	2.5659653	42	2	1998–2000	0.54	M-v	4	Williams	39433	2000 CH ₁₀₀
2000 CQ ₁₀₀	15.0	0.15	20000206	118.23772	44.53815	321.20824	14.17608	0.1443338	2.6503024	13	1	11 days	0.19			Williams		2000 CQ ₁₀₀
2000 CM ₁₀₁	16.0	0.15	20000226	356.89536	186.10105	348.17944	9.71208	0.1506097	2.7310303	42	1	47 days	0.82			Williams		2000 CM ₁₀₁
2000 CO ₁₀₁	18.8	0.15	20000226	97.06865	65.19645	353.19130	15.32744	0.0896042	1.0753338	99	1	67 days	0.58	M-v	4	Williams	39601	2000 CO ₁₀₁
2000 CU ₁₀₁	12.7	0.15	20000226	86.70389	274.76260	152.57935	10.07799	0.0639563	3.1762127	63	1	57 days	0.46			Williams		2000 CU ₁₀₁
2000 CW ₁₀₁	14.9	0.15	20000226	206.94180	328.31769	352.81493	8.85944	0.2001233	2.2907723	40	1	60 days	0.46	M-v	5	Williams		2000 CW ₁₀₁
2000 CX ₁₀₁	15.2	0.15	20000226	280.93320	123.51993	143.34964	8.68525	0.2425022	2.4632944	49	1	59 days	0.55			Williams		2000 CX ₁₀₁
2000 CQ ₁₀₂	13.9	0.15	20000226	322.72948	252.54197	307.69842	2.11539	0.1235758	2.7979720	107	4	1992–2000	0.50	M-v	1	Williams	39434	2000 CQ ₁₀₂
2000 CU ₁₀₂	14.7	0.15	20000226	19.11934	179.36686	325.85051	8.15545	0.0946362	2.5280879	44	1	66 days	0.73	M-v	5	Williams		2000 CU ₁₀₂
2000 CW ₁₀₂	14.9	0.15	20000226	8.66683	1.53959	164.11571	2.44167	0.1411826	2.3828878	70	3	1996–2000	0.33	M-v	2	Williams	39434	2000 CW ₁₀₂
2000 CX ₁₀₂	16.1	0.15	20000226	320.96823	251.68508	308.23574	1.46682	0.1512073	2.3490990	35	2	1993–2000	0.54	M-v	5	Williams	39434	2000 CX ₁₀₂
2000 CY ₁₀₂	15.8	0.15	20000206	321.41364	208.50436	323.61633	19.82130	0.0148434	1.8998150	17	1	33 days	0.48			Williams		2000 CY ₁₀₂
2000 CZ ₁₀₂	13.9	0.15	20000226	207.39569	221.23633	90.96461	5.15890	0.0781158	2.7653458	49	3	1993–2000	0.61	M-v	3	Williams	39434	2000 CZ ₁₀₂
2000 CF ₁₀₃	15.0	0.15	20000226	52.55528	296.63341	155.18212	2.66653	0.1824607	2.6260168	45	2	1998–2000	0.54	M-v	4	Williams	39435	2000 CF ₁₀₃
2000 CG ₁₀₃	14.5	0.15	20000226	311.11674	189.76202	41.46273	3.62114	0.1461403	2.6262359	51	3	1996–2000	0.63	M-v	4	Williams	39435	2000 CG ₁₀₃
2000 CK ₁₀₃	11.8	0.15	20000226	152.54973	135.11365	228.03340	11.71595	0.1063994	3.0431079	41	1	110 days	0.50	M-v	4	Williams		2000 CK ₁₀₃
2000 CL ₁₀₃	14.4	0.15	20000226	355.15267	212.00180	318.38509	4.61991	0.0688901	2.5497230	42	1	62 days	0.55	M-v	5	Williams		2000 CL ₁₀₃

2000 CP ₁₀₃	14.4	0.15	20000226	308.64998	304.03910	270.60991	10.56108	0.1040875	2.7310597	25	1	62 days	0.60	M-v	5	Williams	2000 CP ₁₀₃
2000 CQ ₁₀₃	12.2	0.15	20000226	271.12720	75.10644	171.70727	18.94234	0.0469348	3.1474884	41	1	90 days	0.47	M-v	4	Williams	39601 2000 CQ ₁₀₃
2000 CR ₁₀₃	14.6	0.15	20000226	29.22083	182.27119	299.07398	12.87762	0.0674966	2.6759115	25	1	49 days	0.65			Williams	2000 CR ₁₀₃
2000 CS ₁₀₃	12.9	0.15	20000226	331.23612	295.92641	251.35240	8.90603	0.0376406	2.9884351	66	2	1998–2000	0.55	M-v	3	Williams	39435 2000 CS ₁₀₃
2000 CT ₁₀₃	12.7	0.15	20000226	50.78310	257.35274	196.85450	10.31087	0.1003145	3.0564146	43	1	113 days	0.44	M-v	4	Williams	39601 2000 CT ₁₀₃
2000 CU ₁₀₃	15.7	0.15	20000226	37.94912	248.04360	221.79608	5.72513	0.0939796	2.4583519	27	1	57 days	0.62			Williams	2000 CU ₁₀₃
2000 CV ₁₀₃	15.2	0.15	20000226	302.13869	319.27823	276.82131	9.13053	0.1949339	2.8049739	29	1	56 days	0.53			Williams	2000 CV ₁₀₃
2000 CB ₁₀₄	15.5	0.15	20000226	317.94712	189.43504	9.44516	3.19052	0.0848392	2.2107374	58	3	1997–2000	0.52	M-v	3	Williams	39435 2000 CB ₁₀₄
2000 CD ₁₀₄	12.6	0.15	20000226	16.52812	322.30396	169.18570	9.02091	0.1896907	3.9735537	51	1	62 days	0.45	M-v	4	Williams	2000 CD ₁₀₄
2000 CE ₁₀₄	16.3	0.15	20000226	78.09923	120.30889	298.93348	1.78349	0.1371151	2.3499907	59	1	55 days	0.65			Williams	2000 CE ₁₀₄
2000 CF ₁₀₄	14.3	0.15	20000226	323.94425	99.56271	105.62210	2.57280	0.1347860	3.1577052	43	1	53 days	0.56			Williams	2000 CF ₁₀₄
2000 CK ₁₀₄	12.7	0.15	20000226	287.76949	150.13289	132.85351	10.75922	0.1729343	2.5803581	49	1	94 days	0.33	M-v	4	Williams	2000 CK ₁₀₄
2000 CO ₁₀₅	6.0	0.15	20000226	189.97644	343.58781	307.31087	19.11688	0.0570489	46.6612767	6	1	54 days	0.14		E	Marsden	2000 CO ₁₀₅
2000 CQ ₁₀₅	6.2	0.15	20000226	183.51448	182.43209	130.82473	20.29850	0.0993327	46.5278083	9	1	53 days	0.11		E	Marsden	2000 CQ ₁₀₅
2000 CR ₁₀₅	6.1	0.15	20000226	0.74135	309.45542	128.30858	22.84605	0.9396377	675.2652040	10	1	52 days	0.11		E	Marsden	2000 CR ₁₀₅
2000 CY ₁₀₅	6.6	0.15	20000206	180.06690	175.77021	132.82399	10.02161	0.0913109	45.5325121	4	1	21 days	0.12		E	Marsden	2000 CY ₁₀₅
2000 CP ₁₁₁	15.5	0.15	20000206	14.37858	147.10874	338.34560	16.16276	0.1117093	3.1107722	24	1	35 days	0.77			Williams	2000 CP ₁₁₁
2000 CV ₁₁₁	15.6	0.15	20000226	13.77459	75.95626	81.25269	9.42862	0.2371731	2.3026933	25	1	67 days	0.55	M-v	5	Williams	2000 CV ₁₁₁
2000 CH ₁₁₂	15.1	0.15	20000206	266.75209	334.79580	284.31490	8.93446	0.1335182	2.5725869	19	1	35 days	0.49			Williams	2000 CH ₁₁₂
2000 DD	14.5	0.15	20000226	221.05733	271.83659	10.35053	21.74440	0.0957745	1.8436382	24	1	105 days	0.44	M-v	4	Williams	2000 DD
2000 DG	13.4	0.15	20000226	100.44117	69.71193	327.25593	17.02065	0.1788324	3.2008811	45	1	62 days	0.73	M-v	5	Williams	2000 DG
2000 DO	15.3	0.15	20000226	21.51566	136.79030	350.77767	7.74459	0.1696687	2.7895165	55	2	1993–2000	0.59	M-v	4	Williams	39436 2000 DO
2000 DP	14.5	0.15	20000226	269.07845	244.53332	25.80412	2.27864	0.1845623	2.3902937	48	1	59 days	0.51			Williams	2000 DP
2000 DQ	14.2	0.15	20000226	306.06180	225.54640	12.11976	7.65316	0.2065664	2.6024035	48	1	99 days	0.48	M-v	4	Williams	39602 2000 DQ
2000 DR	15.1	0.15	20000226	29.19944	9.52486	108.26427	8.03458	0.1966100	2.5487238	38	1	53 days	0.59			Williams	2000 DR
2000 DS	13.1	0.15	20000226	331.11186	197.39992	6.35926	15.89475	0.2061050	3.0416695	56	1	97 days	0.46	M-v	4	Williams	2000 DS
2000 DT	15.0	0.15	20000317	24.73962	133.20652	352.05041	23.62844	0.2684296	2.3489411	40	1	44 days	0.59			Williams	2000 DT
2000 DU	13.8	0.15	20000226	3.53914	130.11272	26.76970	11.44512	0.1105745	3.0749630	25	1	31 days	1.22			Williams	2000 DU
2000 DV	15.6	0.15	20000226	1.91764	32.49482	128.75808	6.84095	0.0901760	2.4073613	31	1	52 days	0.53			Williams	2000 DV
2000 DW	13.8	0.15	20000226	105.22850	23.63079	19.97666	9.37973	0.1330815	2.2618978	62	3	1976–2000	0.61	M-v	2	Williams	39436 2000 DW
2000 DX	16.0	0.15	20000226	324.86452	107.34006	95.94607	6.36665	0.0797042	2.3323647	40	1	50 days	0.65			Williams	2000 DX
2000 DY	13.8	0.15	20000226	17.70816	26.93241	115.52289	11.54485	0.0687895	2.6862652	37	1	38 days	0.68			Williams	2000 DY
2000 DZ	14.3	0.15	20000226	98.85322	315.11351	97.44382	6.40430	0.1115822	2.2698852	48	1	94 days	0.60	M-v	4	Williams	39602 2000 DZ
2000 DB ₁	16.0	0.15	20000226	231.77893	180.38255	97.63210	24.79336	0.0250482	1.8981055	24	1	29 days	0.63			Williams	2000 DB ₁
2000 DE ₁	14.0	0.15	20000226	95.56201	49.57554	357.19162	1.67615	0.0669829	2.9301347	54	1	59 days	0.90		D	Williams	2000 DE ₁
2000 DG ₁	14.1	0.15	20000226	129.42000	309.89699	94.80996	3.04406	0.0815438	2.6891177	60	3	1996–2000	0.71	M-v	5	Williams	39436 2000 DG ₁
2000 DH ₁	14.4	0.15	20000317	291.03812	124.57383	149.16831	8.42346	0.1857742	2.3936362	52	1	47 days	0.49			Williams	2000 DH ₁
2000 DL ₁	13.9	0.15	20000226	12.62691	118.98419	4.38939	35.35284	0.2729324	2.0173788	193	3	1980–2000	0.58	M-v	2	Williams	39436 2000 DL ₁
2000 DM ₁	17.9	0.15	20000226	285.68821	306.51588	342.93603	20.68171	0.4839364	1.3687874	102	1	43 days	0.50	M-v	6	Marsden	2000 DM ₁
2000 DO ₁	20.3	0.15	20000226	323.67629	302.27747	336.29009	3.45720	0.6811455	1.4280397	189	1	24 days	0.63	M-v	7	Williams	39602 2000 DO ₁
2000 DP ₁	15.1	0.15	20000317	326.77905	221.15991	358.70249	16.59546	0.1271239	3.1385714	41	1	46 days	0.65			Williams	2000 DP ₁
2000 DY ₁	15.4	0.15	20000206	280.70583	88.91706	140.63540	2.73092	0.0508926	2.5136414	30	1	35 days	0.50			Williams	2000 DY ₁
2000 DB ₂	13.6	0.15	20000317	289.33266	268.75811	357.50424	4.52899	0.1232171	3.1255107	50	1	46 days	0.56			Williams	2000 DB ₂
2000 DC ₂	14.3	0.15	20000317	307.67100	240.91922	1.41086	1.28655	0.0863440	2.9277694	50	1	44 days	0.60			Williams	2000 DC ₂
2000 DE ₂	14.2	0.15	20000317	169.13193	201.34814	170.85143	5.76836	0.1197033	2.6728547	50	1	44 days	0.67			Williams	2000 DE ₂
2000 DF ₂	14.1	0.15	20000226	231.68916	148.93780	175.58098	11.85611	0.1998238	2.6890630	30	1	38 days	0.42			Williams	2000 DF ₂
2000 DG ₂	15.6	0.15	20000226	1.68940	2.28955	174.66359	13.27083	0.0619316	2.7623082	36	2	1997–2000	0.42	M-v	4	Williams	39437 2000 DG ₂
2000 DJ ₂	14.8	0.15	20000317	271.56520	172.56120	123.57930	5.67149	0.0919063	2.7603804	27	1	47 days	0.52			Williams	2000 DJ ₂
2000 DK ₂	14.6	0.15	20000226	345.38166	80.23347	96.62243	2.17985	0.1238131	3.0803994	47	1	59 days	0.56			Williams	2000 DK ₂
2000 DL ₂	15.3	0.15	20000226	259.02532	162.54161	117.42585	3.03992	0.2001469	2.3607045	35	2	1993–2000	0.63	M-v	4	Williams	39437 2000 DL ₂
2000 DM ₂	14.7	0.15	20000226	315.07896	56.40439	162.81670	2.92051	0.1502286	2.6369377	81	3	1996–2000	0.51	M-v	4	Williams	39437 2000 DM ₂
2000 DQ ₂	15.5	0.15	20000226	8.30016	175.60605	341.44481	8.41554	0.0669073	2.3026552	62	1	58 days	0.61			Williams	2000 DQ ₂
2000 DZ ₂	13.2	0.15	20000226	226.64281	257.06836	46.51924	9.62274	0.0932168	2.9654103	27	1	31 days	0.71			Williams	2000 DZ ₂

2000 DA ₃	13.3	0.15	20000226	49.57646	63.52095	40.62674	9.74409	0.0954324	3.0852453	20	1	28 days	0.75		Williams	2000 DA ₃
2000 DB ₃	12.3	0.15	20000226	183.91436	332.47522	15.73261	16.19564	0.0711944	3.1951641	59	1	67 days	0.69	M-v 5	Williams	2000 DB ₃
2000 DE ₃	14.4	0.15	20000226	336.82209	155.73960	45.38641	8.43775	0.1623339	2.3487953	42	1	92 days	0.60	M-v 4	Williams	39602 2000 DE ₃
2000 DF ₃	14.1	0.15	20000226	303.82702	133.39142	112.45589	10.09602	0.1859264	2.3344118	44	1	69 days	0.45	M-v 4	Williams	2000 DF ₃
2000 DG ₃	12.4	0.15	20000226	220.68128	202.52412	122.81270	14.07887	0.2054802	2.5691670	53	1	69 days	0.58	M-v 5	Williams	2000 DG ₃
2000 DJ ₃	13.6	0.15	20000226	207.54002	166.55325	146.33036	9.11801	0.0334329	3.1297982	49	1	58 days	0.70		Williams	2000 DJ ₃
2000 DK ₃	14.5	0.15	20000317	270.32063	278.37319	352.72846	8.45449	0.1585256	2.5485407	34	1	35 days	0.52		Williams	2000 DK ₃
2000 DL ₃	12.9	0.15	20000226	62.29021	288.52023	175.44546	8.85663	0.0711651	3.0689578	73	2	1998–2000	0.53	M-v 3	Williams	39438 2000 DL ₃
2000 DM ₃	14.9	0.15	20000226	89.59440	321.97965	110.92807	5.16296	0.1158074	2.1890657	52	2	1998–2000	0.65	M-v 4	Williams	39438 2000 DM ₃
2000 DN ₃	13.5	0.15	20000226	48.09387	87.35479	32.32606	9.95982	0.1040516	2.7559663	95	4	1977–2000	0.54	M-v 1	Williams	39438 2000 DN ₃
2000 DO ₃	14.4	0.15	20000317	32.21085	108.84801	32.13220	8.14866	0.1372273	3.0966696	27	1	40 days	0.51		Williams	2000 DO ₃
2000 DQ ₃	13.9	0.15	20000226	348.78990	199.19294	337.87203	8.56839	0.0871476	2.6448546	78	2	1998–2000	0.56	M-v 3	Williams	39439 2000 DQ ₃
2000 DV ₃	14.4	0.15	20000226	167.67168	231.54252	114.76249	24.64656	0.0458524	1.9218209	41	1	57 days	0.36		Williams	2000 DV ₃
2000 DX ₃	12.7	0.15	20000226	256.61834	170.11637	93.11421	22.38302	0.0538700	3.2342947	27	1	58 days	0.47		Williams	2000 DX ₃
2000 DY ₃	13.0	0.15	20000226	195.85579	317.20595	353.20138	12.05362	0.0246711	3.2153378	50	2	1998–2000	0.55	M-v 3	Williams	39439 2000 DY ₃
2000 DA ₄	13.7	0.15	20000317	342.84484	65.22155	111.61024	7.08705	0.1415960	2.7698573	27	1	49 days	0.42		Williams	2000 DA ₄
2000 DC ₄	15.7	0.15	20000226	313.34558	71.86597	133.05771	15.74201	0.1013431	2.7444196	21	1	29 days	0.59		Williams	2000 DC ₄
2000 DD ₄	13.3	0.15	20000226	214.08232	308.42432	353.51879	11.41418	0.1609007	2.7080339	48	3	1996–2000	0.56	M-v 2	Williams	39439 2000 DD ₄
2000 DE ₄	13.2	0.15	20000226	182.68621	329.23982	355.73761	9.69715	0.0973262	3.0626683	50	3	1995–2000	0.64	M-v 4	Williams	39439 2000 DE ₄
2000 DH ₄	15.3	0.15	20000226	280.08292	133.50014	105.96451	5.24127	0.0845024	2.1978384	36	1	73 days	0.49	M-v 5	Williams	2000 DH ₄
2000 DJ ₄	16.6	0.15	20000206	313.86477	74.13415	119.85264	7.29217	0.0475632	2.2631674	33	1	30 days	0.96		Williams	2000 DJ ₄
2000 DL ₄	13.3	0.15	20000226	20.63433	110.26154	13.25324	6.38934	0.0966798	3.1688440	53	1	62 days	0.43	M-v 4	Williams	2000 DL ₄
2000 DM ₄	15.6	0.15	20000206	154.71869	229.32843	114.90473	8.85406	0.1257312	2.3578540	23	1	27 days	0.46		Williams	2000 DM ₄
2000 DQ ₄	14.7	0.15	20000226	290.70271	118.31190	109.41191	7.88960	0.0818920	2.2833151	44	1	66 days	0.45	M-v 4	Williams	2000 DQ ₄
2000 DX ₄	14.6	0.15	20000226	247.23243	240.49416	39.31314	4.63344	0.1841791	2.3775495	20	1	9 days	0.53		Williams	2000 DX ₄
2000 DE ₅	14.3	0.15	20000206	132.35424	244.48073	123.13229	10.28011	0.0798435	2.9623182	31	1	31 days	0.62		Williams	2000 DE ₅
2000 DH ₅	16.4	0.15	20000206	4.77986	134.42623	4.24063	6.01631	0.1029412	2.3021461	27	1	37 days	0.64		Williams	2000 DH ₅
2000 DN ₅	13.9	0.15	20000226	34.52606	31.30511	72.29816	37.32769	0.1660181	2.7542409	24	1	99 days	0.43	M-v 4	Williams	2000 DN ₅
2000 DS ₅	14.6	0.15	20000226	302.53182	186.34148	50.59521	24.50282	0.2452112	2.3717938	16	1	30 days	0.46		Williams	2000 DS ₅
2000 DT ₅	14.4	0.15	20000226	175.27768	273.72552	64.22333	29.74088	0.1473636	1.9647321	18	1	29 days	0.50		Williams	2000 DT ₅
2000 DU ₅	15.7	0.15	20000226	13.37543	66.94031	65.11063	24.57367	0.2268185	2.2828600	29	1	102 days	0.50	M-v 4	Williams	2000 DU ₅
2000 DW ₅	15.5	0.15	20000226	0.27071	125.33865	33.38388	23.65758	0.2551383	2.3176390	23	1	36 days	0.41		Williams	2000 DW ₅
2000 DF ₆	13.3	0.15	20000226	45.16007	88.75571	3.00130	8.79274	0.0827909	3.0516758	46	2	1998–2000	0.63	M-v 3	Williams	39440 2000 DF ₆
2000 DG ₆	13.8	0.15	20000226	82.08813	23.84148	27.67336	6.88600	0.0920936	3.2021914	25	3	1977–2000	0.66	M-v 4	Williams	39440 2000 DG ₆
2000 DQ ₆	14.5	0.15	20000206	19.63119	128.80576	349.89695	13.81912	0.1185717	3.3470277	28	1	37 days	0.79		Williams	2000 DQ ₆
2000 DW ₆	15.3	0.15	20000226	152.63157	328.37857	20.44167	11.41684	0.0700568	3.0769214	14	1	28 days	0.47		Williams	2000 DW ₆
2000 DY ₆	16.4	0.15	20000317	63.16214	227.39187	222.70263	1.27079	0.1767767	2.4036567	42	1	37 days	0.56		Williams	2000 DY ₆
2000 DZ ₆	16.4	0.15	20000317	59.32784	278.34273	182.43035	0.93265	0.1184750	2.3892797	42	1	37 days	0.79		Williams	2000 DZ ₆
2000 DA ₇	13.8	0.15	20000226	323.56039	229.64656	343.47196	0.83111	0.1316131	2.3942919	90	4	1996–2000	0.56	M-v 1	Williams	39440 2000 DA ₇
2000 DB ₇	13.6	0.15	20000226	111.92235	45.92186	358.99629	3.74999	0.1560014	3.1902540	45	3	1994–2000	0.68	M-v 4	Williams	39440 2000 DB ₇
2000 DC ₇	13.6	0.15	20000226	34.25044	344.98599	144.35241	16.23823	0.1260411	2.5556544	45	1	93 days	0.55	M-v 4	Williams	2000 DC ₇
2000 DD ₇	13.5	0.15	20000226	43.17855	52.21934	72.17465	8.51006	0.0426534	2.2918616	48	2	1998–2000	0.51	M-v 3	Williams	39441 2000 DD ₇
2000 DF ₇	12.8	0.15	20000226	51.30387	25.10174	93.11509	11.80471	0.0451797	2.9953598	34	1	64 days	0.61	M-v 5	Williams	2000 DF ₇
2000 DG ₇	12.5	0.15	20000226	94.97607	288.50214	135.43528	14.08324	0.1517123	2.6736235	40	1	92 days	0.41	M-v 4	Williams	2000 DG ₇
2000 DJ ₇	14.8	0.15	20000226	17.24365	84.92552	57.04061	8.16840	0.2225051	2.3019043	48	1	97 days	0.54	M-v 4	Williams	39603 2000 DJ ₇
2000 DK ₇	13.9	0.15	20000226	271.58090	164.09218	110.65931	10.95858	0.1134442	2.3904324	36	1	64 days	0.64	M-v 5	Williams	2000 DK ₇
2000 DL ₇	12.8	0.15	20000226	350.73693	145.73710	38.74569	16.28063	0.1338376	3.1027355	41	2	1998–2000	0.61	M-v 3	Williams	39441 2000 DL ₇
2000 DN ₇	14.3	0.15	20000226	349.46378	129.80844	55.33081	7.69412	0.0456535	2.2871721	33	1	91 days	0.55	M-v 4	Williams	2000 DN ₇
2000 DG ₈	12.8	0.15	20000226	351.14723	222.26292	279.11679	129.41571	0.7934008	10.7951690	73	1	29 days	0.43		Williams	2000 DG ₈
2000 DK ₈	18.6	0.15	20000226	13.80049	340.70958	102.89832	12.66314	0.6879795	2.5305095	67	1	30 days	0.62	M-v 6	Williams	2000 DK ₈
2000 DM ₈	14.6	0.15	20000226	260.54529	317.88100	323.26166	46.73218	0.5545669	1.4836154	165	1	39 days	0.51	M-v 5	Williams	2000 DM ₈
2000 DP ₈	15.2	0.15	20000226	277.28800	69.92653	181.70113	6.65612	0.0874078	2.3305271	27	1	62 days	0.46	M-v 5	Williams	2000 DP ₈
2000 DQ ₈	16.2	0.15	20000206	358.39632	21.45008	125.91584	2.21771	0.1213223	2.4516018	32	1	36 days	0.81		Williams	2000 DQ ₈

2000 APR. 18

M.P.C. 40461

2000 DS ₈	14.2	0.15	20000317	47.06174	316.68439	159.58734	3.20796	0.1715914	4.0069201	22	1	37 days	0.63	Williams	2000 DS ₈
2000 DV ₉	16.3	0.15	20000206	29.20088	318.74748	150.09952	6.13473	0.0896448	2.2162895	49	1	38 days	0.56	Williams	2000 DV ₉
2000 DA ₁₁	15.9	0.15	20000206	1.35154	164.39903	338.37863	2.79484	0.0943947	2.6467905	39	1	36 days	0.57	Williams	2000 DA ₁₁
2000 DJ ₁₁	15.3	0.15	20000226	45.15059	305.88035	177.92895	5.50074	0.0947519	3.1351646	27	1	59 days	0.62	Williams	2000 DJ ₁₁
2000 DK ₁₁	15.5	0.15	20000317	322.47175	61.63028	172.50882	1.32322	0.1834389	3.1140426	47	1	43 days	0.73	Williams	2000 DK ₁₁
2000 DQ ₁₁	15.9	0.15	20000317	304.12923	87.19564	171.25472	3.50622	0.2011101	2.6639406	18	1	40 days	0.49	Williams	2000 DQ ₁₁
2000 DR ₁₁	16.0	0.15	20000226	5.83711	354.23269	173.34116	4.42730	0.1171832	2.6159121	29	1	60 days	0.57	M-v 5 Williams	2000 DR ₁₁
2000 DV ₁₁	16.0	0.15	20000317	72.65658	282.06800	174.38787	5.99667	0.1048353	2.4473760	28	1	39 days	0.53	Williams	2000 DV ₁₁
2000 DX ₁₁	14.6	0.15	20000317	95.20866	267.88420	176.55505	13.44253	0.0202652	2.9530957	27	1	43 days	0.38	Williams	2000 DX ₁₁
2000 DY ₁₁	16.9	0.15	20000317	350.33734	181.90980	9.36046	1.40919	0.0465758	2.2585025	26	1	39 days	0.53	Williams	2000 DY ₁₁
2000 DG ₁₂	15.5	0.15	20000317	61.46245	290.78699	170.80522	5.65242	0.1690986	2.6553764	29	1	39 days	0.78	Williams	2000 DG ₁₂
2000 DH ₁₂	13.5	0.15	20000226	104.98760	250.14069	175.58348	9.64621	0.0796982	3.0786871	49	2	1998–2000	0.62	M-v 4 Williams	39442 2000 DH ₁₂
2000 DJ ₁₂	15.5	0.15	20000317	171.03266	195.21479	173.33158	6.48853	0.1583708	2.3995283	21	1	39 days	0.54	Williams	2000 DJ ₁₂
2000 DK ₁₂	15.6	0.15	20000317	208.79318	177.67781	164.19727	3.03226	0.1904922	2.3569848	18	1	39 days	0.48	Williams	2000 DK ₁₂
2000 DQ ₁₂	15.4	0.15	20000226	245.10585	142.25325	155.93459	2.01601	0.0481229	2.6961600	26	2	1996–2000	0.61	M-v 5 Williams	39442 2000 DQ ₁₂
2000 DA ₁₃	16.3	0.15	20000317	191.04444	178.29775	178.03380	26.28974	0.2097070	2.3640519	11	1	38 days	0.34	Williams	2000 DA ₁₃
2000 DD ₁₃	14.9	0.15	20000317	233.28759	221.87336	101.31314	1.46871	0.1561335	2.3627242	51	1	43 days	0.61	Williams	2000 DD ₁₃
2000 DE ₁₃	15.8	0.15	20000317	79.55161	280.91244	162.23263	5.53377	0.1817694	2.3942765	29	1	41 days	0.49	Williams	2000 DE ₁₃
2000 DJ ₁₃	14.8	0.15	20000317	206.86986	352.17631	329.81025	6.99888	0.1687430	2.3107500	36	1	35 days	0.49	Williams	2000 DJ ₁₃
2000 DQ ₁₃	13.8	0.15	20000226	186.81849	143.55232	188.37938	1.94414	0.0762009	2.6677201	52	3	1993–2000	0.68	M-v 4 Williams	39442 2000 DQ ₁₃
2000 DT ₁₃	15.3	0.15	20000226	79.36379	75.54547	330.84543	4.64761	0.2841432	2.5741124	31	2	1994–2000	0.61	M-v 6 Williams	39443 2000 DT ₁₃
2000 DH ₁₄	15.5	0.15	20000226	60.64647	104.50677	340.69543	0.85105	0.1328847	3.1243952	25	2	1994–2000	0.48	M-v 5 Williams	39443 2000 DH ₁₄
2000 DN ₁₄	14.9	0.15	20000226	240.24185	162.09514	124.28486	5.99467	0.0903623	2.2774735	56	1	90 days	0.59	M-v 4 Williams	2000 DN ₁₄
2000 DO ₁₄	16.6	0.15	20000226	319.68397	96.69452	123.05209	5.74086	0.2303933	2.2722369	44	1	59 days	0.43	Williams	2000 DO ₁₄
2000 DR ₁₄	15.3	0.15	20000226	40.26585	4.00007	99.09885	4.68693	0.1654321	2.3690651	44	1	87 days	0.52	M-v 4 Williams	2000 DR ₁₄
2000 DS ₁₄	15.2	0.15	20000226	343.95598	80.19905	101.05841	3.49295	0.1195101	2.8062728	45	1	59 days	0.56	Williams	2000 DS ₁₄
2000 DT ₁₄	15.2	0.15	20000226	86.48051	334.75047	87.22340	2.81675	0.1078729	2.1760512	46	1	86 days	0.52	M-v 4 Williams	39606 2000 DT ₁₄
2000 DU ₁₄	14.8	0.15	20000226	50.10080	320.78545	135.57760	7.38172	0.1494189	2.5402862	47	1	84 days	0.42	M-v 4 Williams	2000 DU ₁₄
2000 DV ₁₄	13.4	0.15	20000226	332.45538	120.50638	79.81685	2.66578	0.0905602	3.1626579	66	4	1996–2000	0.50	M-v 2 Williams	39443 2000 DV ₁₄
2000 DW ₁₄	14.9	0.15	20000226	131.88342	249.76605	141.06593	5.85191	0.0527166	2.4696875	28	2	1998–2000	0.58	M-v 4 Williams	39443 2000 DW ₁₄
2000 DX ₁₄	14.3	0.15	20000226	147.29062	247.42704	125.15910	7.07369	0.1367472	2.2891021	36	1	67 days	0.52	M-v 5 Williams	2000 DX ₁₄
2000 DZ ₁₄	15.8	0.15	20000226	324.35398	61.52194	149.86345	3.02538	0.1208004	2.3764857	36	3	1982–2000	0.53	M-v 4 Williams	39443 2000 DZ ₁₄
2000 DA ₁₅	16.1	0.15	20000226	14.65419	358.40849	148.10106	3.81700	0.1390310	2.3491427	40	1	57 days	0.57	Williams	2000 DA ₁₅
2000 DE ₁₅	14.9	0.15	20000226	128.74189	262.99467	135.24657	4.02034	0.0364567	2.7795929	33	1	59 days	0.61	Williams	2000 DE ₁₅
2000 DJ ₁₅	14.4	0.15	20000226	286.09975	98.58422	153.37617	10.45069	0.0848760	3.0723226	28	1	57 days	0.64	Williams	2000 DJ ₁₅
2000 DL ₁₅	14.5	0.15	20000226	33.58364	52.97771	76.76554	2.57107	0.0692361	2.9902641	30	1	57 days	0.67	Williams	2000 DL ₁₅
2000 DN ₁₅	16.1	0.15	20000226	335.29678	56.49695	138.09769	7.13308	0.0655502	2.3247671	36	1	57 days	0.70	Williams	2000 DN ₁₅
2000 DO ₁₅	14.4	0.15	20000226	45.03389	334.33940	133.21053	6.63377	0.1647670	2.6291063	59	2	1998–2000	0.67	M-v 3 Williams	39444 2000 DO ₁₅
2000 DQ ₁₅	15.2	0.15	20000226	255.81800	239.61839	50.80890	5.09635	0.1810203	2.2476083	28	1	62 days	0.63	M-v 5 Williams	2000 DQ ₁₅
2000 DR ₁₅	13.7	0.15	20000226	190.11168	203.10323	138.41220	10.33813	0.0693598	2.9730062	31	1	62 days	0.56	M-v 5 Williams	2000 DR ₁₅
2000 DS ₁₅	13.8	0.15	20000226	248.80774	218.65152	72.37447	6.15355	0.1075017	2.6957795	50	2	1998–2000	0.63	M-v 4 Williams	39444 2000 DS ₁₅
2000 DT ₁₅	14.1	0.15	20000226	262.74053	139.13223	138.77993	11.46694	0.0868745	3.0501582	35	1	57 days	0.56	Williams	2000 DT ₁₅
2000 DU ₁₅	16.1	0.15	20000226	27.00727	325.00621	163.63544	5.63002	0.1798963	2.6464260	30	1	35 days	0.43	Williams	2000 DU ₁₅
2000 DY ₁₅	13.8	0.15	20000226	69.48586	24.06865	58.17892	2.33944	0.1852940	3.2377506	61	3	1971–2000	1.02	M-v 5 Williams	39444 2000 DY ₁₅
2000 DZ ₁₅	15.3	0.15	20000226	350.06713	31.19501	153.68849	6.43849	0.1625212	2.6295000	48	1	59 days	0.51	Williams	2000 DZ ₁₅
2000 DB ₁₆	13.4	0.15	20000226	39.32307	127.40694	357.07090	15.15707	0.1122186	2.7852201	57	1	84 days	0.54	M-v 4 Williams	2000 DB ₁₆
2000 DC ₁₆	13.8	0.15	20000226	25.83154	138.85143	0.07045	9.33302	0.1318980	2.7425582	106	3	1993–2000	0.60	M-v 2 Williams	39444 2000 DC ₁₆
2000 DD ₁₆	13.6	0.15	20000226	279.37512	217.68553	52.23958	4.64521	0.1177265	2.2499635	58	1	93 days	0.38	M-v 5 Williams	2000 DD ₁₆
2000 DF ₁₆	16.4	0.15	20000317	6.49418	137.23204	35.86653	7.34651	0.1302739	2.3361978	52	1	41 days	0.65	Williams	2000 DF ₁₆
2000 DG ₁₆	14.0	0.15	20000226	34.49819	325.05187	181.14454	9.18220	0.0621236	2.7239634	58	4	1993–2000	0.56	M-v 1 Williams	39444 2000 DG ₁₆
2000 DH ₁₆	14.3	0.15	20000226	340.74165	194.02370	9.13439	4.69371	0.0727445	2.2044512	90	3	1990–2000	0.59	M-v 2 Williams	39445 2000 DH ₁₆
2000 DJ ₁₆	13.2	0.15	20000317	102.61486	69.33026	9.34667	16.56137	0.1011669	3.1310992	57	1	41 days	0.50	Williams	2000 DJ ₁₆
2000 DM ₁₆	14.3	0.15	20000317	336.93908	208.46396	9.75882	13.06791	0.1063122	3.0853196	53	1	41 days	0.42	Williams	2000 DM ₁₆

2000 DN ₁₆	15.7	0.15	20000317	339.08066	51.33823	163.66017	2.93835	0.1321537	2.4062022	42	1	41 days	0.54	Williams	2000 DN ₁₆
2000 DQ ₁₆	15.0	0.15	20000226	51.32426	123.84630	333.11665	22.05859	0.0790447	2.5727017	27	1	53 days	0.35	Williams	2000 DQ ₁₆
2000 DD ₁₇	15.9	0.15	20000226	243.51140	343.00698	307.97187	3.00839	0.1513777	2.1447388	22	1	27 days	0.62	Williams	2000 DD ₁₇
2000 DF ₁₇	16.5	0.15	20000226	342.86036	26.40920	162.26746	24.88508	0.2547329	2.3017135	38	1	12 days	0.45	Williams	2000 DF ₁₇
2000 DH ₁₇	17.3	0.15	20000317	329.22490	66.39076	158.43549	11.05780	0.3084617	2.2755252	28	1	35 days	0.54	Williams	2000 DH ₁₇
2000 DJ ₁₇	15.3	0.15	20000226	278.68357	264.11408	343.16111	18.75901	0.0569660	1.9555981	45	1	64 days	0.44	M-v 5 Williams	2000 DJ ₁₇
2000 DO ₁₇	14.0	0.15	20000226	77.40331	271.66862	164.66230	22.52060	0.0813722	2.5510176	17	1	28 days	0.36	Williams	2000 DO ₁₇
2000 DQ ₁₇	16.7	0.15	20000226	5.99117	167.31365	344.69463	22.67073	0.2136486	2.2258477	23	1	11 days	0.52	Williams	2000 DQ ₁₇
2000 DW ₁₇	14.1	0.15	20000226	69.04231	155.37991	278.73715	9.42669	0.0903411	3.0387852	31	1	52 days	1.06	Williams	2000 DW ₁₇
2000 DX ₁₇	12.4	0.15	20000226	275.67246	294.91637	330.77327	21.18604	0.0440450	3.2078043	47	4	1982–2000	0.70	M-v 1 Williams	39445 2000 DX ₁₇
2000 DB ₁₈	14.0	0.15	20000226	328.60179	209.34720	334.40452	15.60187	0.0856122	3.0539266	43	1	65 days	0.46	M-v 4 Williams	2000 DB ₁₈
2000 DF ₁₈	14.5	0.15	20000226	49.52313	301.66881	146.11042	13.69759	0.1390887	2.6058461	48	1	88 days	0.49	M-v 4 Williams	2000 DF ₁₈
2000 DW ₁₈	13.9	0.15	20000226	238.03279	349.37460	279.97568	0.82209	0.0480321	2.9352356	44	3	1995–2000	0.49	M-v 4 Williams	39445 2000 DW ₁₈
2000 DL ₁₉	15.3	0.15	20000206	232.19864	130.03082	148.63007	8.18653	0.1226685	2.2614476	39	1	36 days	0.62	Williams	2000 DL ₁₉
2000 DO ₁₉	15.3	0.15	20000226	220.04964	319.83175	331.70571	8.77530	0.1186591	2.5737926	30	1	52 days	0.67	Williams	2000 DO ₁₉
2000 DT ₁₉	16.4	0.15	20000226	311.02348	229.86356	342.96913	4.62750	0.1783380	2.3913894	41	1	52 days	0.62	Williams	2000 DT ₁₉
2000 DW ₁₉	15.1	0.15	20000226	340.41365	30.78113	141.30123	3.41178	0.1401463	2.6633713	53	1	95 days	0.51	M-v 4 Williams	2000 DW ₁₉
2000 DZ ₁₉	14.1	0.15	20000206	144.09866	208.56370	143.11508	11.57063	0.0808325	3.0063366	32	1	38 days	0.50	Williams	2000 DZ ₁₉
2000 DU ₂₀	16.6	0.15	20000206	334.36988	226.73488	307.42215	4.11805	0.1268856	2.4278530	16	1	26 days	0.54	Williams	2000 DU ₂₀
2000 DW ₂₀	15.4	0.15	20000206	15.42448	305.58643	179.93867	2.18082	0.0221235	2.6862922	16	1	27 days	0.74	Williams	2000 DW ₂₀
2000 DM ₂₁	15.4	0.15	20000226	265.79415	92.02934	167.83173	3.19854	0.1606912	2.2504676	34	3	1994–2000	0.70	M-v 4 Williams	39446 2000 DM ₂₁
2000 DN ₂₁	16.3	0.15	20000206	67.37175	103.66200	317.89479	5.94760	0.1223681	2.4374439	24	1	30 days	0.43	Williams	2000 DN ₂₁
2000 DP ₂₁	14.5	0.15	20000206	75.83053	100.16983	319.61813	7.95062	0.0674437	3.1846612	24	1	32 days	0.46	Williams	2000 DP ₂₁
2000 DK ₂₂	15.6	0.15	20000226	54.42325	296.16478	146.58925	6.52881	0.0930391	2.5887714	32	2	1998–2000	0.68	M-v 4 Williams	39446 2000 DK ₂₂
2000 DQ ₂₂	15.6	0.15	20000206	245.47941	123.79413	144.52987	5.63288	0.1354710	2.4081416	21	1	30 days	0.84	Williams	2000 DQ ₂₂
2000 DX ₂₂	14.4	0.15	20000226	244.08341	297.00783	332.68688	9.10282	0.0833951	3.0640356	16	1	11 days	0.53	Williams	2000 DX ₂₂
2000 DB ₂₃	15.4	0.15	20000226	73.85990	76.70717	335.78529	12.14305	0.1844558	2.5317689	41	3	1994–2000	0.73	M-v 2 Williams	39446 2000 DB ₂₃
2000 DC ₂₃	17.0	0.15	20000206	314.54709	222.24158	341.55123	4.51435	0.1696474	2.3993918	22	1	29 days	0.64	Williams	2000 DC ₂₃
2000 DG ₂₃	14.4	0.15	20000206	263.15683	295.38808	322.10186	0.85477	0.1640656	2.8054024	30	1	34 days	0.64	Williams	2000 DG ₂₃
2000 DQ ₂₃	16.6	0.15	20000206	89.30912	64.13366	338.25248	3.45746	0.0957853	2.2704733	32	1	39 days	0.60	Williams	2000 DQ ₂₃
2000 DZ ₂₃	14.8	0.15	20000206	285.01326	286.57870	309.62732	2.11120	0.1515037	2.9860840	35	1	36 days	0.84	Williams	2000 DZ ₂₃
2000 DB ₂₄	16.7	0.15	20000206	341.98706	0.94359	168.84449	2.14245	0.1898418	2.7074834	43	1	38 days	0.91	Williams	2000 DB ₂₄
2000 DF ₂₄	14.1	0.15	20000226	171.04543	342.49184	352.29380	1.35358	0.1133789	2.9381212	55	5	1995–2000	0.64	M-v 1 Williams	39446 2000 DF ₂₄
2000 DH ₂₄	14.1	0.15	20000206	187.11847	344.75458	332.69514	13.64835	0.0962082	2.8380230	42	1	37 days	0.42	Williams	2000 DH ₂₄
2000 DL ₂₄	17.2	0.15	20000206	10.22897	5.87110	123.53489	2.63620	0.1209348	2.4010889	24	1	36 days	0.65	Williams	2000 DL ₂₄
2000 DO ₂₄	16.1	0.15	20000206	323.81581	216.31192	333.36175	11.02047	0.1332030	2.6645503	28	1	29 days	0.62	Williams	2000 DO ₂₄
2000 DP ₂₄	15.1	0.15	20000206	20.03314	145.20264	334.73781	10.57356	0.0822554	2.9868630	39	1	37 days	0.60	Williams	2000 DP ₂₄
2000 DR ₂₄	15.8	0.15	20000226	79.15236	268.23596	140.54099	4.56265	0.1884482	2.2428949	23	1	13 days	0.60	Williams	2000 DR ₂₄
2000 DS ₂₄	14.1	0.15	20000206	208.02929	204.08420	98.35121	1.04470	0.1220670	2.9738967	19	1	26 days	0.40	Williams	2000 DS ₂₄
2000 DV ₂₄	15.2	0.15	20000206	304.29338	240.66718	335.87768	12.18332	0.1606815	2.7407423	45	1	37 days	0.53	Williams	2000 DV ₂₄
2000 DW ₂₄	15.6	0.15	20000226	330.34687	206.88569	339.26955	7.20247	0.1075074	2.5749910	33	1	29 days	0.53	Williams	2000 DW ₂₄
2000 DC ₂₅	16.3	0.15	20000206	6.29641	172.07528	323.88961	2.24052	0.1088778	2.2899092	35	1	37 days	0.73	Williams	2000 DC ₂₅
2000 DT ₂₅	15.4	0.15	20000226	260.25759	277.75698	349.72617	1.82798	0.1711438	2.4631804	37	1	29 days	0.52	Williams	2000 DT ₂₅
2000 DW ₂₅	14.2	0.15	20000226	232.10438	308.72565	334.13850	10.11184	0.0754165	2.9640173	36	1	29 days	0.50	Williams	2000 DW ₂₅
2000 DX ₂₅	15.5	0.15	20000206	77.15870	41.09897	2.04660	1.91764	0.2102720	2.3303846	36	1	34 days	0.53	Williams	2000 DX ₂₅
2000 DZ ₂₅	14.6	0.15	20000226	2.79727	163.90986	343.10792	6.53364	0.0781552	2.3761505	74	2	1998–2000	0.56	M-v 3 Williams	39447 2000 DZ ₂₅
2000 DE ₂₆	15.8	0.15	20000206	252.27400	256.60811	15.90399	2.16026	0.1944979	2.3518205	37	1	27 days	0.76	Williams	2000 DE ₂₆
2000 DH ₂₆	14.5	0.15	20000206	199.85270	344.74063	324.76874	2.28953	0.0999477	2.7986809	30	1	35 days	0.50	Williams	2000 DH ₂₆
2000 DM ₂₆	13.7	0.15	20000226	82.77428	269.52715	150.37707	7.63427	0.0640248	2.7584900	63	3	1993–2000	0.63	M-v 3 Williams	39448 2000 DM ₂₆
2000 DR ₂₆	16.9	0.15	20000317	33.32366	136.50055	333.88593	4.84743	0.1811002	2.6038351	23	1	36 days	0.50	Williams	2000 DR ₂₆
2000 DS ₂₆	16.4	0.15	20000206	41.04489	310.34311	146.60311	4.05211	0.0844674	2.3292200	27	1	36 days	0.52	Williams	2000 DS ₂₆
2000 DT ₂₆	14.4	0.15	20000206	6.94942	87.86016	50.50301	1.02612	0.0314987	3.0846392	46	1	35 days	0.58	Williams	2000 DT ₂₆
2000 DD ₂₇	16.6	0.15	20000226	37.53297	246.99506	212.96410	1.74253	0.1744853	2.3154181	31	1	68 days	0.47	M-v 5 Williams	2000 DD ₂₇

2000 DA ₂₉	15.9	0.15	20000317	208.93172	333.29883	334.55907	12.19124	0.0458159	3.0895610	12	1	36 days	0.43		Williams		2000 DA ₂₉
2000 DB ₂₉	13.9	0.15	20000226	120.80126	44.28989	335.90281	8.98381	0.1096203	3.0741190	50	2	1998–2000	0.64	M-v	4	Williams	39448 2000 DB ₂₉
2000 DL ₂₉	16.3	0.15	20000226	84.04309	332.05546	73.08990	0.42411	0.2068075	2.3673988	28	3	1991–2000	0.51	M-v	4	Williams	39449 2000 DL ₂₉
2000 DV ₂₉	14.7	0.15	20000226	85.21781	253.90832	162.96237	4.01027	0.0882725	2.7861567	37	3	1993–2000	0.63	M-v	4	Williams	39449 2000 DV ₂₉
2000 DW ₂₉	15.9	0.15	20000317	329.93933	326.10492	225.80786	0.74198	0.0792436	2.9465127	17	1	34 days	0.68			Williams	2000 DW ₂₉
2000 DY ₂₉	16.6	0.15	20000226	12.64802	309.64504	187.81179	0.99079	0.1164917	2.3763396	29	1	98 days	0.60	M-v	4	Williams	2000 DY ₂₉
2000 DB ₃₀	17.1	0.15	20000317	48.99886	280.74406	160.03371	9.61248	0.2862611	2.4327526	15	1	35 days	0.44			Williams	2000 DB ₃₀
2000 DC ₃₀	13.9	0.15	20000226	167.79694	171.19232	171.52662	2.44515	0.0983693	3.0157110	12	1	6 days	0.38		E	Williams	2000 DC ₃₀
2000 DH ₃₀	13.9	0.15	20000226	197.90053	152.36660	164.64345	10.34716	0.0925460	3.0603957	48	1	60 days	0.62	M-v	5	Williams	2000 DH ₃₀
2000 DC ₃₂	17.3	0.15	20000317	297.66310	62.92826	175.38863	6.10620	0.1432465	2.3046222	19	1	41 days	0.39			Williams	2000 DC ₃₂
2000 DD ₃₂	15.6	0.15	20000226	69.99552	265.01405	161.50255	19.35122	0.1500613	3.2202940	18	1	30 days	0.51			Williams	2000 DD ₃₂
2000 DH ₃₂	13.8	0.15	20000226	286.10292	114.86533	127.65061	1.68071	0.1389129	3.3061837	29	1	30 days	0.75		D	Williams	2000 DH ₃₂
2000 DP ₃₂	13.6	0.15	20000226	82.20035	64.84143	331.51266	12.37976	0.3064841	3.1713326	51	1	62 days	0.55	M-v	6	Williams	2000 DP ₃₂
2000 DQ ₃₂	17.8	0.15	20000226	57.61749	96.09738	329.78409	3.93764	0.2709561	2.3855322	21	1	25 days	0.50			Williams	2000 DQ ₃₂
2000 DT ₃₂	15.3	0.15	20000317	73.88693	183.38163	252.93859	0.41338	0.0665502	2.9751818	24	1	34 days	0.45			Williams	2000 DT ₃₂
2000 DW ₃₂	14.3	0.15	20000317	184.31309	160.83341	172.14162	0.23655	0.1644288	3.1306934	25	1	36 days	0.54			Williams	2000 DW ₃₂
2000 DX ₃₂	15.4	0.15	20000226	287.90468	275.51856	316.28360	1.56941	0.0510403	2.9696307	36	1	48 days	0.66			Williams	2000 DX ₃₂
2000 DY ₃₂	15.1	0.15	20000226	302.94367	256.23636	330.09582	1.21405	0.1456782	3.0772205	25	1	38 days	0.46			Williams	2000 DY ₃₂
2000 DB ₃₃	17.7	0.15	20000317	344.52157	15.90308	167.96100	5.01828	0.1729350	2.3422446	24	1	36 days	0.61			Williams	2000 DB ₃₃
2000 DE ₃₃	16.5	0.15	20000226	327.64171	0.36363	192.49508	2.13346	0.0938616	2.3103155	41	2	1998–2000	0.51	M-v	4	Williams	39450 2000 DE ₃₃
2000 DG ₃₃	17.6	0.15	20000226	353.01339	349.21554	173.55068	3.51195	0.1234699	2.7794285	15	1	25 days	0.49			Williams	2000 DG ₃₃
2000 DJ ₃₃	14.7	0.15	20000226	216.00407	354.37553	314.85250	3.43210	0.2052361	2.2453861	71	3	1991–2000	0.60	M-v	4	Williams	39450 2000 DJ ₃₃
2000 DK ₃₃	16.2	0.15	20000226	16.28157	317.72677	174.44564	2.60724	0.1390369	2.8560093	22	1	30 days	0.65			Williams	2000 DK ₃₃
2000 DL ₃₃	15.3	0.15	20000317	276.44597	90.27096	160.92978	11.48093	0.0937381	3.1656128	23	1	36 days	0.39			Williams	2000 DL ₃₃
2000 DM ₃₃	16.7	0.15	20000226	120.69773	215.42861	165.82081	5.90292	0.1344162	2.2689164	20	1	59 days	0.49			Williams	2000 DM ₃₃
2000 DT ₃₃	16.3	0.15	20000226	6.46584	333.60517	173.71232	4.85174	0.0660596	2.5955686	28	1	54 days	0.53			Williams	2000 DT ₃₃
2000 DW ₃₃	16.8	0.15	20000317	244.35393	120.85401	168.87752	7.62171	0.1510949	2.2535493	26	1	42 days	0.52			Williams	2000 DW ₃₃
2000 DA ₃₄	17.2	0.15	20000317	290.00911	301.15564	307.91734	1.69567	0.1682546	2.4284004	30	1	34 days	0.37			Williams	2000 DA ₃₄
2000 DB ₃₄	16.8	0.15	20000317	290.89485	84.33881	167.79550	5.64957	0.1990405	2.3669635	23	1	36 days	0.44			Williams	2000 DB ₃₄
2000 DE ₃₄	15.1	0.15	20000226	42.59441	284.20693	158.92765	16.42088	0.2864037	3.1952560	17	1	11 days	0.37			Williams	2000 DE ₃₄
2000 DK ₃₄	15.7	0.15	20000226	326.92620	16.82694	176.15482	1.44492	0.0775636	3.0871373	21	1	30 days	0.43			Williams	2000 DK ₃₄
2000 DL ₃₄	17.8	0.15	20000226	16.33152	317.58026	176.15513	1.97312	0.1356138	2.3405633	23	1	30 days	0.46			Williams	2000 DL ₃₄
2000 DM ₃₄	15.5	0.15	20000226	37.78727	325.82390	145.46601	3.19435	0.0627544	2.4715330	41	1	50 days	0.71			Williams	2000 DM ₃₄
2000 DV ₃₄	14.9	0.15	20000226	267.79927	99.07302	151.00684	9.80762	0.0331315	3.0332469	32	1	52 days	0.67			Williams	2000 DV ₃₄
2000 DY ₃₄	17.0	0.15	20000226	340.82836	201.61920	341.09337	11.62472	0.1989807	2.6842417	38	1	51 days	0.55			Williams	2000 DY ₃₄
2000 DE ₃₅	15.8	0.15	20000226	109.71095	42.56156	347.81659	6.26685	0.1374150	2.3048412	34	2	1998–2000	0.77	M-v	4	Williams	39450 2000 DE ₃₅
2000 DQ ₃₅	17.1	0.15	20000226	347.60608	205.58077	326.02989	1.40270	0.1448571	2.3665955	36	1	50 days	0.71			Williams	2000 DQ ₃₅
2000 DS ₃₅	15.0	0.15	20000226	127.86019	49.32444	331.77657	1.36855	0.0613454	2.8495938	18	1	15 days	0.62			Williams	2000 DS ₃₅
2000 DW ₃₅	15.9	0.15	20000317	317.70198	64.09073	147.24119	1.59684	0.1215107	3.1671704	21	1	36 days	0.46			Williams	2000 DW ₃₅
2000 DY ₃₅	15.8	0.15	20000226	284.03319	262.86022	337.63241	6.86861	0.0836581	2.2728607	59	1	65 days	0.53	M-v	5	Williams	2000 DY ₃₅
2000 DA ₃₆	14.6	0.15	20000226	2.88057	347.57840	163.74001	2.50372	0.1213915	3.0478759	31	1	58 days	0.32			Williams	2000 DA ₃₆
2000 DB ₃₆	16.7	0.15	20000226	64.24801	107.60051	337.32269	6.52582	0.0565686	2.2652282	28	1	33 days	0.42			Williams	2000 DB ₃₆
2000 DM ₃₆	15.3	0.15	20000317	81.82338	83.93342	338.96749	6.86063	0.1160178	3.2044390	25	1	41 days	0.55			Williams	2000 DM ₃₆
2000 DN ₃₆	13.8	0.15	20000226	89.09247	67.00763	339.48688	13.47230	0.1654679	3.0612893	49	1	69 days	0.45	M-v	5	Williams	2000 DN ₃₆
2000 DO ₃₆	18.2	0.15	20000226	340.16992	193.46375	349.28686	2.14695	0.1616874	2.3222595	29	1	59 days	0.47			Williams	2000 DO ₃₆
2000 DX ₃₆	15.6	0.15	20000226	204.88609	332.51957	343.03014	5.84079	0.1268387	2.4410642	30	1	38 days	0.55			Williams	2000 DX ₃₆
2000 DA ₃₇	15.8	0.15	20000317	147.75973	18.65477	337.59729	18.66708	0.3012550	2.5798362	17	1	37 days	0.74			Williams	2000 DA ₃₇
2000 DC ₃₇	16.7	0.15	20000317	104.36722	49.77300	347.76191	5.87104	0.1696428	2.3348759	13	1	35 days	0.47			Williams	2000 DC ₃₇
2000 DE ₃₇	14.7	0.15	20000206	82.07753	268.37360	149.55272	13.67993	0.0918357	2.7427225	42	1	40 days	0.47			Williams	2000 DE ₃₇
2000 DG ₃₇	14.6	0.15	20000226	48.10354	104.20734	346.44209	9.24931	0.1608685	3.1401806	31	1	61 days	0.57	M-v	5	Williams	2000 DG ₃₇
2000 DN ₃₇	14.9	0.15	20000206	136.99794	234.53301	132.27226	4.67911	0.1057562	2.6871124	37	1	39 days	0.49			Williams	2000 DN ₃₇
2000 DQ ₃₇	16.5	0.15	20000226	88.42571	59.55002	345.38360	2.11018	0.1945142	2.4628489	21	1	38 days	0.44			Williams	2000 DQ ₃₇
2000 DB ₃₈	14.5	0.15	20000226	67.41222	105.82347	340.93099	1.37021	0.0166257	2.9010987	40	2	1998–2000	0.66	M-v	4	Williams	39451 2000 DB ₃₈

2000 DE ₃₈	14.4	0.15	20000226	299.34540	52.29744	167.18323	2.12433	0.0374997	2.9305162	45	2	1998–2000	0.52	M-v	4	Williams	39451	2000 DE ₃₈
2000 DG ₃₈	15.1	0.15	20000226	68.54928	257.35142	172.12787	2.67052	0.1548950	2.3981860	54	3	1997–2000	0.64	M-v	3	Williams	39451	2000 DG ₃₈
2000 DJ ₃₈	15.6	0.15	20000226	343.71960	325.88350	210.47412	0.65132	0.1243207	3.0830490	35	1	55 days	0.53			Williams		2000 DJ ₃₈
2000 DN ₃₈	16.9	0.15	20000226	87.08251	237.85346	168.43564	3.71191	0.1979212	2.4825557	19	1	54 days	0.53			Williams		2000 DN ₃₈
2000 DX ₃₈	15.8	0.15	20000317	106.93405	74.61027	313.43969	3.67517	0.2569366	2.3494403	16	1	35 days	0.44			Williams		2000 DX ₃₈
2000 DE ₃₉	17.2	0.15	20000317	66.53870	260.08025	170.82907	8.17776	0.2084193	2.4388231	16	1	37 days	0.72			Williams		2000 DE ₃₉
2000 DB ₄₀	13.8	0.15	20000226	169.05067	149.54926	196.90559	2.37257	0.0664492	2.7435390	57	4	1979–2000	0.71	M-v	2	Williams	39452	2000 DB ₄₀
2000 DJ ₄₀	15.1	0.15	20000317	260.52455	316.84427	327.92169	7.49723	0.2296335	2.2980362	34	1	35 days	0.57			Williams		2000 DJ ₄₀
2000 DK ₄₀	14.6	0.15	20000226	299.40542	283.53388	302.49665	1.45460	0.0866434	2.6226957	43	1	55 days	0.42			Williams		2000 DK ₄₀
2000 DN ₄₀	15.4	0.15	20000206	45.70046	291.61707	162.18731	9.36718	0.1299344	2.7572456	28	1	34 days	0.47			Williams		2000 DN ₄₀
2000 DR ₄₀	14.3	0.15	20000317	287.61714	76.05780	162.05432	10.20346	0.0486835	3.1077799	28	1	34 days	0.46			Williams		2000 DR ₄₀
2000 DW ₄₀	15.2	0.15	20000226	41.63248	133.18079	335.19784	6.99256	0.0753533	2.3327419	61	2	1998–2000	0.55	M-v	3	Williams	39452	2000 DW ₄₀
2000 DA ₄₁	16.1	0.15	20000206	10.75723	156.99830	335.07657	4.76550	0.2282696	2.7788239	33	1	39 days	0.37			Williams		2000 DA ₄₁
2000 DD ₄₁	15.2	0.15	20000226	169.32559	187.84128	156.66376	7.06049	0.1457485	2.2858176	42	3	1991–2000	0.55	M-v	4	Williams	39452	2000 DD ₄₁
2000 DR ₄₁	16.1	0.15	20000317	207.90488	325.21617	348.83236	4.21284	0.0433700	2.7599290	21	1	34 days	0.51			Williams		2000 DR ₄₁
2000 DA ₄₂	15.6	0.15	20000226	297.69723	96.35528	136.69583	1.96773	0.1320047	2.5745820	39	2	1998–2000	0.52	M-v	5	Williams	39452	2000 DA ₄₂
2000 DD ₄₂	17.1	0.15	20000206	299.44810	75.69104	149.22705	3.91748	0.1306817	2.3195439	34	1	35 days	0.40			Williams		2000 DD ₄₂
2000 DL ₄₂	15.0	0.15	20000226	242.23804	156.63448	133.87757	2.07533	0.1759735	2.4151397	38	1	52 days	0.52			Williams		2000 DL ₄₂
2000 DM ₄₂	15.6	0.15	20000226	37.36629	332.16739	135.77555	1.97404	0.1425598	3.0484593	29	1	29 days	0.54			Williams		2000 DM ₄₂
2000 DR ₄₂	15.7	0.15	20000226	317.84248	225.63392	348.12561	6.23045	0.1700075	2.7136187	31	1	64 days	0.52	M-v	5	Williams		2000 DR ₄₂
2000 DT ₄₂	14.6	0.15	20000226	21.62038	345.69469	143.86354	5.74951	0.1094747	2.7228010	52	2	1998–2000	0.42	M-v	3	Williams	39453	2000 DT ₄₂
2000 DV ₄₂	13.5	0.15	20000226	104.40789	52.16996	340.29102	26.79851	0.1909113	3.1200265	37	1	52 days	0.50			Williams		2000 DV ₄₂
2000 DW ₄₂	13.0	0.15	20000226	91.74150	53.64686	341.08619	25.76864	0.2760875	3.1550608	72	3	1992–2000	0.54	M-v	2	Williams	39453	2000 DW ₄₂
2000 DF ₄₃	15.2	0.15	20000226	60.98836	71.59579	22.59071	1.26632	0.0193475	2.5766502	29	2	1998–2000	0.36	M-v	4	Williams	39453	2000 DF ₄₃
2000 DM ₄₃	14.9	0.15	20000226	179.84260	215.72599	121.82974	2.24930	0.0688792	2.6085804	27	2	1998–2000	0.53	M-v	5	Williams	39454	2000 DM ₄₃
2000 DO ₄₃	14.8	0.15	20000226	25.42492	12.60056	115.72109	1.84259	0.0697200	3.0585500	39	1	59 days	0.62			Williams		2000 DO ₄₃
2000 DW ₄₃	16.4	0.15	20000317	331.97977	216.75085	336.15529	5.94291	0.0334305	2.3259845	22	1	36 days	0.50			Williams		2000 DW ₄₃
2000 DX ₄₃	14.5	0.15	20000226	79.42992	273.76643	160.22447	2.77718	0.0340486	2.7923368	31	1	58 days	0.45			Williams		2000 DX ₄₃
2000 DD ₄₄	15.1	0.15	20000226	55.34286	295.47006	149.67692	3.68179	0.1632304	2.6780809	40	1	57 days	0.61			Williams		2000 DD ₄₄
2000 DF ₄₄	14.0	0.15	20000226	43.92501	309.91260	157.49579	16.65471	0.0773532	3.0951200	22	1	57 days	0.38			Williams		2000 DF ₄₄
2000 DM ₄₄	14.8	0.15	20000226	217.94121	332.10278	335.45390	10.37411	0.1334894	2.6567429	19	1	11 days	0.47			Williams		2000 DM ₄₄
2000 DV ₄₄	16.1	0.15	20000317	306.68026	73.88576	166.97743	4.33014	0.2222479	2.3769025	17	1	36 days	0.22			Williams		2000 DV ₄₄
2000 DY ₄₅	15.0	0.15	20000317	280.10682	82.23708	172.32963	7.19804	0.1039327	2.4183760	22	1	34 days	0.62			Williams		2000 DY ₄₅
2000 DB ₄₆	16.2	0.15	20000226	344.52845	279.50882	259.11400	1.72770	0.1437118	2.4283277	22	1	54 days	0.40			Williams		2000 DB ₄₆
2000 DK ₄₆	14.7	0.15	20000317	343.25756	18.07167	170.67881	9.03775	0.1965970	3.1997586	13	1	34 days	0.69			Williams		2000 DK ₄₆
2000 DN ₄₆	13.1	0.15	20000226	208.34373	145.41067	169.24845	9.33785	0.0972947	2.9624656	24	1	61 days	0.49	M-v	5	Williams		2000 DN ₄₆
2000 DL ₄₈	15.2	0.15	20000317	112.42711	55.94679	343.38560	8.24644	0.1036590	3.1029830	19	1	42 days	0.49			Williams		2000 DL ₄₈
2000 DO ₄₈	19.0	0.15	20000226	328.18118	312.99538	255.38323	0.46436	0.2700048	2.2740655	10	1	30 days	0.75			Williams		2000 DO ₄₈
2000 DQ ₄₈	18.0	0.15	20000226	325.73459	232.06886	329.28403	3.00165	0.1646859	2.3957982	18	1	30 days	0.49			Williams		2000 DQ ₄₈
2000 DR ₄₈	17.0	0.15	20000226	309.53063	242.50811	326.59158	3.50587	0.0510343	2.8138820	17	1	32 days	0.40			Williams		2000 DR ₄₈
2000 DW ₄₈	16.0	0.15	20000226	328.50318	227.94878	327.65779	12.18447	0.1354306	2.5662350	12	1	6 days	0.49		E	Williams		2000 DW ₄₈
2000 DC ₄₉	16.6	0.15	20000317	72.39271	88.92076	338.56511	12.54767	0.1613321	2.6897396	21	1	45 days	0.59			Williams		2000 DC ₄₉
2000 DS ₄₉	15.9	0.15	20000226	196.44233	159.14918	162.40440	10.93616	0.1188519	2.9790794	15	1	29 days	0.49			Williams		2000 DS ₄₉
2000 DK ₅₁	16.0	0.15	20000226	326.64613	199.13188	0.93332	3.09096	0.1182920	2.5428049	52	1	38 days	0.40			Williams		2000 DK ₅₁
2000 DA ₅₂	15.7	0.15	20000226	252.32801	286.96012	359.12221	2.68934	0.1886096	2.3562875	24	1	24 days	0.53			Williams		2000 DA ₅₂
2000 DD ₅₂	13.6	0.15	20000226	315.49291	48.71990	157.31891	16.55999	0.0182044	3.0949469	36	1	66 days	0.47	M-v	5	Williams		2000 DD ₅₂
2000 DE ₅₂	14.1	0.15	20000226	3.99945	112.56745	42.18475	1.45948	0.0995683	3.1585366	29	1	52 days	0.37			Williams		2000 DE ₅₂
2000 DL ₅₂	14.6	0.15	20000226	51.43552	120.96899	341.64999	9.33568	0.0563369	3.1546538	21	1	27 days	0.50			Williams		2000 DL ₅₂
2000 DX ₅₂	13.6	0.15	20000226	232.43440	106.01684	193.12845	1.96607	0.1439781	2.7201598	36	1	67 days	0.50	M-v	5	Williams		2000 DX ₅₂
2000 DC ₅₃	13.8	0.15	20000317	197.77933	156.82068	169.33707	11.41836	0.0339387	3.0357910	17	1	34 days	0.52			Williams		2000 DC ₅₃
2000 DH ₅₃	13.5	0.15	20000226	189.97345	3.84347	327.16031	7.27136	0.0469908	3.0741082	36	1	67 days	0.48	M-v	5	Williams		2000 DH ₅₃
2000 DL ₅₃	13.0	0.15	20000226	157.67371	188.03416	169.25576	17.25186	0.1216761	3.2040218	16	1	27 days	0.40			Williams		2000 DL ₅₃
2000 DW ₅₃	13.9	0.15	20000226	195.63859	68.15787	259.32223	1.90769	0.0826233	2.6266802	50	3	1993–2000	0.61	M-v	4	Williams	39455	2000 DW ₅₃

2000 APR. 18

M.P.C. 40465

2000 DL ₅₄	15.0	0.15	20000226	356.40590	358.26186	165.78557	5.20043	0.0908529	2.7709463	37	1	67 days	0.48	M-v	5	Williams	2000 DL ₅₄
2000 DN ₅₄	13.7	0.15	20000226	220.62907	333.32181	335.69741	6.61051	0.1417811	3.1000756	26	1	11 days	0.63			Williams	2000 DN ₅₄
2000 DO ₅₄	15.9	0.15	20000317	226.24006	138.86167	166.64692	6.17705	0.0941083	2.4140373	34	1	34 days	0.50			Williams	2000 DO ₅₄
2000 DP ₅₄	14.2	0.15	20000317	330.09971	33.66599	162.18097	11.39999	0.0347948	3.1021536	43	1	34 days	0.53			Williams	2000 DP ₅₄
2000 DR ₅₄	14.7	0.15	20000226	160.53593	19.68530	332.88674	2.15314	0.2561155	2.8514483	19	1	11 days	1.01			Williams	2000 DR ₅₄
2000 DE ₅₅	16.7	0.15	20000317	337.18762	61.72923	136.75492	1.96227	0.1657145	2.4191013	21	1	34 days	0.27			Williams	2000 DE ₅₅
2000 DK ₅₅	15.2	0.15	20000226	218.83849	192.83895	109.92013	1.71221	0.0229106	2.2108697	57	4	1994–2000	0.62	M-v	1	Williams	39455 2000 DK ₅₅
2000 DM ₅₅	15.3	0.15	20000226	20.00642	358.08694	136.87258	2.77742	0.1091806	2.3512373	50	1	52 days	0.47			Williams	2000 DM ₅₅
2000 DN ₅₅	15.1	0.15	20000226	275.55937	226.35807	27.94285	1.94541	0.0808656	3.0156776	10	1	6 days	0.67		E	Williams	2000 DN ₅₅
2000 DT ₅₅	15.1	0.15	20000226	242.42748	145.53356	151.28561	5.61746	0.2057331	2.4395025	25	1	11 days	0.55			Williams	2000 DT ₅₅
2000 DX ₅₅	15.0	0.15	20000206	70.40640	289.69390	148.96127	3.98957	0.0685762	2.7866780	33	1	35 days	0.51			Williams	2000 DX ₅₅
2000 DB ₅₆	12.7	0.15	20000226	190.44037	177.30098	155.62983	9.93983	0.0928725	3.1703667	52	3	1991–2000	0.58	M-v	3	Williams	39455 2000 DB ₅₆
2000 DD ₅₆	14.6	0.15	20000317	271.29567	184.44058	90.60417	0.92534	0.1802370	2.3637520	23	1	34 days	0.42			Williams	2000 DD ₅₆
2000 DF ₅₆	14.6	0.15	20000226	74.32789	288.21082	157.03938	7.62200	0.0201999	3.0228534	34	1	38 days	0.62			Williams	2000 DF ₅₆
2000 DG ₅₆	16.0	0.15	20000226	322.10036	53.48418	156.48518	5.50489	0.1352298	2.5539776	38	1	37 days	0.59			Williams	2000 DG ₅₆
2000 DL ₅₆	15.2	0.15	20000226	70.32145	86.10880	335.86533	2.96676	0.2507346	2.5861557	38	2	1982–2000	0.62	M-v	4	Williams	39456 2000 DL ₅₆
2000 DG ₅₇	16.0	0.15	20000226	299.61795	260.08081	333.08027	5.46122	0.1096431	2.4382379	27	1	39 days	0.60			Williams	2000 DG ₅₇
2000 DM ₅₇	17.6	0.15	20000317	26.52638	314.20561	173.62923	5.57242	0.2069943	2.3180268	16	1	34 days	0.45			Williams	2000 DM ₅₇
2000 DQ ₅₇	15.2	0.15	20000226	300.46341	318.45244	292.45097	2.29314	0.2653909	2.6976513	34	1	39 days	0.45			Williams	2000 DQ ₅₇
2000 DC ₅₈	16.1	0.15	20000226	357.48780	316.73526	207.95092	2.54098	0.1531345	2.5867537	22	1	27 days	0.60			Williams	2000 DC ₅₈
2000 DJ ₅₈	15.2	0.15	20000226	305.26841	279.68421	302.15603	3.41523	0.0502179	2.7559356	17	1	27 days	0.48			Williams	2000 DJ ₅₈
2000 DN ₅₈	16.5	0.15	20000226	314.00931	345.74354	234.62113	1.44018	0.1391276	2.2659567	25	1	38 days	0.41			Williams	2000 DN ₅₈
2000 DR ₅₈	15.8	0.15	20000226	309.57443	262.53589	329.52287	3.91744	0.1989342	2.3894376	35	1	68 days	0.39	M-v	4	Williams	2000 DR ₅₈
2000 DT ₅₈	14.6	0.15	20000226	351.36348	207.71795	326.16374	3.56053	0.1783638	2.5912904	40	1	69 days	0.45	M-v	4	Williams	2000 DT ₅₈
2000 DU ₅₈	14.3	0.15	20000226	263.89911	114.35271	168.40652	9.22191	0.2302176	2.4352356	43	1	62 days	0.40	M-v	5	Williams	2000 DU ₅₈
2000 DZ ₅₈	13.2	0.15	20000226	255.31797	342.83132	295.32379	1.86136	0.0962939	3.1878922	34	2	1991–2000	0.53	M-v	4	Williams	39457 2000 DZ ₅₈
2000 DJ ₅₉	13.9	0.15	20000226	99.32966	106.47429	306.12098	0.86667	0.0928034	2.9425658	51	4	1980–2000	0.59	M-v	1	Williams	39457 2000 DJ ₅₉
2000 DU ₅₉	16.4	0.15	20000226	67.65550	108.43789	338.82086	7.25613	0.0648757	2.2897948	19	1	27 days	0.56			Williams	2000 DU ₅₉
2000 DW ₅₉	16.5	0.15	20000226	293.57682	242.87980	359.77004	1.53846	0.1345139	2.4664452	24	1	27 days	0.33			Williams	2000 DW ₅₉
2000 DZ ₅₉	16.9	0.15	20000317	349.84831	187.99413	353.09988	2.77359	0.1255458	2.3647741	25	1	35 days	0.41			Williams	2000 DZ ₅₉
2000 DL ₆₀	16.6	0.15	20000226	301.33997	242.90508	355.37061	3.53040	0.1656570	2.4788576	20	1	15 days	0.32			Williams	2000 DL ₆₀
2000 DP ₆₀	14.0	0.15	20000226	311.27556	68.86448	155.68500	12.41710	0.1468270	3.0455710	29	1	66 days	0.50	M-v	4	Williams	2000 DP ₆₀
2000 DS ₆₀	12.0	0.15	20000226	268.09554	272.24476	348.71010	16.35597	0.0665341	3.2272004	91	3	1977–2000	0.57	M-v	3	Williams	39457 2000 DS ₆₀
2000 DT ₆₀	15.0	0.15	20000317	242.12073	155.63258	137.88570	4.19054	0.1040846	2.5424666	21	1	34 days	0.41			Williams	2000 DT ₆₀
2000 DU ₆₀	12.7	0.15	20000226	282.65658	166.84608	92.14418	2.30818	0.1717088	3.1941081	54	3	1997–2000	0.43	M-v	3	Williams	39458 2000 DU ₆₀
2000 DX ₆₀	15.3	0.15	20000226	299.61211	66.79775	159.31557	17.21261	0.0346931	2.8579916	29	1	31 days	0.49			Williams	2000 DX ₆₀
2000 DB ₆₁	16.4	0.15	20000226	358.57776	26.34463	136.64380	2.89354	0.1434978	2.4000803	21	1	28 days	0.53			Williams	2000 DB ₆₁
2000 DD ₆₁	13.1	0.15	20000226	94.14784	258.33263	153.10115	5.77592	0.1570344	3.1949691	41	2	1998–2000	0.67	M-v	4	Williams	39458 2000 DD ₆₁
2000 DU ₆₁	15.7	0.15	20000226	320.40733	57.91200	154.38774	4.83835	0.1228472	2.3713407	34	2	1994–2000	0.58	M-v	4	Williams	39458 2000 DU ₆₁
2000 DY ₆₁	15.2	0.15	20000226	313.84432	59.88161	163.17110	2.65355	0.1550455	2.4368223	38	1	62 days	0.60	M-v	5	Williams	2000 DY ₆₁
2000 DZ ₆₁	14.7	0.15	20000206	168.66570	3.14682	346.37280	5.43888	0.0579757	2.7691483	26	1	32 days	0.46			Williams	2000 DZ ₆₁
2000 DF ₆₂	12.7	0.15	20000226	189.29671	171.95169	164.59713	19.07656	0.0880145	3.4029004	35	1	60 days	0.52	M-v	5	Williams	2000 DF ₆₂
2000 DG ₆₂	15.2	0.15	20000317	317.63572	52.42832	162.15274	14.74659	0.0507260	2.6064668	15	1	34 days	0.49			Williams	2000 DG ₆₂
2000 DO ₆₂	14.7	0.15	20000226	66.31989	103.25434	338.42716	8.90139	0.1365218	3.0520951	30	1	15 days	0.45			Williams	2000 DO ₆₂
2000 DU ₆₂	14.2	0.15	20000226	216.03554	334.35191	334.75922	4.82718	0.0379512	2.3161918	66	2	1998–2000	0.54	M-v	4	Williams	39458 2000 DU ₆₂
2000 DC ₆₃	14.4	0.15	20000226	133.72994	43.77050	341.17226	11.56637	0.0683701	2.9496734	29	1	16 days	0.41			Williams	2000 DC ₆₃
2000 DD ₆₃	14.9	0.15	20000226	304.58784	253.73299	337.93701	6.19266	0.1267139	2.6630668	44	1	40 days	0.35			Williams	2000 DD ₆₃
2000 DN ₆₃	15.3	0.15	20000226	2.67139	208.18615	312.35870	3.22899	0.0406868	2.7920440	17	1	27 days	0.59			Williams	2000 DN ₆₃
2000 DQ ₆₃	13.0	0.15	20000317	250.68150	308.31043	334.01711	10.12158	0.0492142	3.1878738	24	1	35 days	0.38			Williams	2000 DQ ₆₃
2000 DS ₆₃	16.0	0.15	20000317	292.71151	287.82974	333.79437	6.21270	0.2225519	2.3637161	22	1	34 days	0.53			Williams	2000 DS ₆₃
2000 DX ₆₃	14.8	0.15	20000226	346.07112	230.78445	308.61384	3.45924	0.0766793	2.3210519	36	1	62 days	0.57	M-v	5	Williams	2000 DX ₆₃
2000 DH ₆₄	16.7	0.15	20000317	45.53318	161.68017	314.81770	2.89931	0.0924651	2.2208685	27	1	37 days	0.63			Williams	2000 DH ₆₄
2000 DP ₆₄	15.4	0.15	20000317	298.29040	266.88091	332.04900	6.47799	0.0734744	2.3431387	31	1	34 days	0.68			Marsden	2000 DP ₆₄

2000 DR ₆₄	16.9	0.15	20000226	335.23238	259.07853	296.88620	1.47633	0.1403640	2.2839571	15	1	11 days	0.93		Williams	2000 DR ₆₄
2000 DW ₆₄	14.7	0.15	20000226	351.14431	7.73617	166.31783	6.17470	0.1121593	2.4900671	44	1	61 days	0.49	M-v 5	Williams	2000 DW ₆₄
2000 DC ₆₅	15.9	0.15	20000226	341.38906	300.73599	246.48927	0.50007	0.1275352	2.3892482	60	2	1998–2000	0.54	M-v 5	Williams	39459 2000 DC ₆₅
2000 DF ₆₅	14.3	0.15	20000226	237.55719	308.12194	343.20397	13.58640	0.0510793	2.4035176	54	1	88 days	0.51	M-v 4	Williams	2000 DF ₆₅
2000 DK ₆₅	15.2	0.15	20000226	323.29397	194.23292	13.03836	2.15194	0.1446349	2.4478183	28	1	59 days	0.73		Williams	2000 DK ₆₅
2000 DA ₆₆	15.3	0.15	20000226	95.11513	135.02613	272.63801	1.82671	0.1585708	2.3745387	37	3	1993–2000	0.70	M-v 3	Williams	39459 2000 DA ₆₆
2000 DU ₆₆	14.2	0.15	20000226	276.25317	134.33897	126.00096	1.92654	0.1278521	3.0966892	39	1	52 days	0.58		Williams	2000 DU ₆₆
2000 DX ₆₆	16.1	0.15	20000226	11.53988	345.50488	160.91766	3.24653	0.1305031	3.1192537	24	1	27 days	0.56		Williams	2000 DX ₆₆
2000 DH ₆₇	13.8	0.15	20000226	290.74108	273.76314	335.81203	10.95790	0.1635833	2.6436942	46	1	62 days	0.43	M-v 5	Williams	2000 DH ₆₇
2000 DR ₆₇	14.8	0.15	20000226	302.29133	256.25921	337.54848	3.97376	0.1176479	3.1744421	21	1	15 days	0.47		Williams	2000 DR ₆₇
2000 DB ₆₈	15.4	0.15	20000206	102.05623	259.01014	151.47230	5.07612	0.0703127	2.7752525	26	1	34 days	0.72		Williams	2000 DB ₆₈
2000 DC ₆₈	16.3	0.15	20000317	320.82630	66.40754	152.79557	5.38863	0.1248709	2.2493315	34	1	34 days	0.56		Williams	2000 DC ₆₈
2000 DK ₆₈	14.1	0.15	20000226	60.23954	95.72978	355.36743	4.78850	0.1254658	3.1167133	20	1	51 days	0.33		Williams	2000 DK ₆₈
2000 DP ₆₈	15.6	0.15	20000226	286.51704	75.84163	170.15884	1.90887	0.0724178	2.2687781	40	2	1997–2000	0.46	M-v 5	Williams	39460 2000 DP ₆₈
2000 DR ₆₈	14.3	0.15	20000226	185.53760	8.09736	333.06749	3.57419	0.0882071	2.8384813	25	1	11 days	0.75		Williams	2000 DR ₆₈
2000 DU ₆₈	14.5	0.15	20000226	275.34661	286.69498	340.35165	5.08865	0.1526056	2.3201614	56	1	91 days	0.59	M-v 4	Williams	2000 DU ₆₈
2000 DV ₆₈	14.9	0.15	20000226	316.00707	243.60599	337.02454	3.91190	0.1353298	2.3379500	43	2	1994–2000	0.45	M-v 4	Williams	39460 2000 DV ₆₈
2000 DZ ₆₈	15.3	0.15	20000317	314.14945	256.85506	327.43518	5.71995	0.0834584	2.6543742	27	1	42 days	0.52		Williams	2000 DZ ₆₈
2000 DA ₆₉	13.5	0.15	20000226	185.75611	109.21764	233.71149	2.06096	0.1548678	2.6102847	50	4	1996–2000	0.63	M-v 2	Williams	39461 2000 DA ₆₉
2000 DC ₆₉	15.9	0.15	20000317	358.97076	217.99823	315.42445	2.94262	0.1529157	2.6818197	53	1	41 days	0.57		Williams	2000 DC ₆₉
2000 DD ₆₉	14.7	0.15	20000226	64.09255	255.17219	184.65304	4.67654	0.1933860	2.6321155	50	2	1998–2000	0.51	M-v 4	Williams	39461 2000 DD ₆₉
2000 DF ₆₉	14.8	0.15	20000226	54.17317	278.87490	179.13134	5.77528	0.1414047	3.1761225	33	1	53 days	0.62		Williams	2000 DF ₆₉
2000 DG ₆₉	16.9	0.15	20000317	313.90320	56.10931	174.55350	5.37210	0.1392723	2.1693263	31	1	38 days	0.46		Williams	2000 DG ₆₉
2000 DH ₆₉	14.5	0.15	20000226	309.18252	242.89332	340.10541	6.51767	0.0715676	2.3543308	51	1	88 days	0.56	M-v 4	Williams	2000 DH ₆₉
2000 DJ ₆₉	15.1	0.15	20000317	45.86515	285.67974	196.48824	1.89086	0.0343386	2.9766223	23	1	36 days	0.43		Williams	2000 DJ ₆₉
2000 DK ₆₉	15.2	0.15	20000226	351.89153	195.55092	341.04606	11.15964	0.0692716	3.0687024	31	1	35 days	0.53		Williams	2000 DK ₆₉
2000 DL ₆₉	15.0	0.15	20000226	29.81866	278.24312	206.11209	1.70325	0.1607645	2.3710677	38	1	61 days	0.50	M-v 5	Williams	2000 DL ₆₉
2000 DO ₆₉	15.9	0.15	20000317	18.18687	170.69314	341.40977	4.75804	0.0197029	2.1820204	29	1	33 days	0.42		Williams	2000 DO ₆₉
2000 DQ ₆₉	16.1	0.15	20000226	53.57275	288.30629	170.43848	7.45688	0.1264002	2.3402164	32	1	57 days	0.48		Williams	2000 DQ ₆₉
2000 DR ₆₉	13.3	0.15	20000226	213.83406	337.26438	338.96883	1.59930	0.0496351	2.9000987	58	3	1978–2000	0.53	M-v 3	Williams	39461 2000 DR ₆₉
2000 DU ₆₉	13.1	0.15	20000226	219.18822	161.27662	152.29866	1.88715	0.1075159	2.9378264	50	2	1995–2000	0.49	M-v 5	Williams	39461 2000 DU ₆₉
2000 DW ₆₉	15.3	0.15	20000226	321.19528	230.34456	349.53268	9.58676	0.1936124	2.5379278	45	3	1993–2000	0.65	M-v 3	Williams	39461 2000 DW ₆₉
2000 DB ₇₀	14.6	0.15	20000226	296.34266	91.81155	143.53325	4.07037	0.0619781	2.7696197	37	1	37 days	0.81		Williams	2000 DB ₇₀
2000 DC ₇₀	14.5	0.15	20000226	246.04846	145.04585	154.33954	7.38318	0.2184577	2.3316649	54	5	1986–2000	0.58	M-v 2	Williams	39462 2000 DC ₇₀
2000 DK ₇₀	15.1	0.15	20000226	250.14464	140.89018	151.55151	5.65508	0.1717254	2.2723700	30	2	1994–2000	0.56	M-v 4	Williams	39462 2000 DK ₇₀
2000 DM ₇₀	15.9	0.15	20000226	33.31914	317.13881	160.34820	6.02636	0.1726176	2.3074499	35	1	60 days	0.45	M-v 5	Williams	2000 DM ₇₀
2000 DQ ₇₀	13.3	0.15	20000226	272.33458	282.01439	350.14267	8.34441	0.1576402	2.8169615	56	3	1997–2000	0.54	M-v 3	Williams	39462 2000 DQ ₇₀
2000 DU ₇₀	14.0	0.15	20000317	271.92620	282.99462	341.59032	9.08450	0.0435138	2.9650024	24	1	36 days	0.39		Williams	2000 DU ₇₀
2000 DD ₇₁	14.9	0.15	20000226	45.54624	137.25390	332.77374	4.90399	0.1261478	2.3299880	48	3	1993–2000	0.56	M-v 3	Williams	39462 2000 DD ₇₁
2000 DE ₇₁	16.0	0.15	20000317	301.09166	290.57712	317.87763	2.73395	0.1487144	2.3896352	18	1	33 days	0.37		Williams	2000 DE ₇₁
2000 DF ₇₁	14.7	0.15	20000226	166.43126	132.86816	229.31250	1.70665	0.0187088	2.5848459	45	3	1971–2000	0.61	M-v 4	Williams	39463 2000 DF ₇₁
2000 DG ₇₁	16.5	0.15	20000226	22.55677	161.91508	335.02543	6.30978	0.1394832	2.2336280	45	1	54 days	0.52		Williams	2000 DG ₇₁
2000 DH ₇₁	15.1	0.15	20000226	93.26560	90.71605	331.73956	4.72691	0.1123142	2.2933567	46	2	1998–2000	0.57	M-v 4	Williams	39463 2000 DH ₇₁
2000 DJ ₇₁	16.7	0.15	20000317	64.36784	267.83577	188.12598	2.53527	0.1161530	2.2179332	25	1	39 days	0.48		Williams	2000 DJ ₇₁
2000 DK ₇₁	14.3	0.15	20000226	320.46311	54.68064	171.15290	13.72468	0.2137278	2.6414872	41	1	60 days	0.42	M-v 4	Williams	2000 DK ₇₁
2000 DP ₇₁	13.2	0.15	20000226	67.75489	256.44920	187.14827	1.40428	0.1560544	3.2390622	78	3	1971–2000	0.63	M-v 4	Williams	39463 2000 DP ₇₁
2000 DQ ₇₁	14.2	0.15	20000317	90.38988	93.71848	346.28712	11.54112	0.0202551	2.9493374	47	1	39 days	0.49		Williams	2000 DQ ₇₁
2000 DR ₇₁	15.8	0.15	20000226	321.65060	2.27558	214.82057	0.26647	0.1424948	2.5903822	32	1	50 days	0.42		Williams	2000 DR ₇₁
2000 DS ₇₁	15.5	0.15	20000317	237.01706	334.01872	336.51542	2.78452	0.1739793	2.2415880	37	1	41 days	0.60		Williams	2000 DS ₇₁
2000 DU ₇₁	14.7	0.15	20000226	278.21838	275.37895	346.63459	1.55678	0.1057330	2.5351727	39	3	1996–2000	0.44	M-v 4	Williams	39463 2000 DU ₇₁
2000 DW ₇₁	14.5	0.15	20000226	252.23920	134.04838	158.60543	3.40703	0.1822973	2.4676820	42	3	1996–2000	0.54	M-v 4	Williams	39463 2000 DW ₇₁
2000 DZ ₇₁	14.2	0.15	20000317	86.88312	69.45365	357.55711	4.53683	0.1508221	3.1443644	21	1	36 days	0.50		Williams	2000 DZ ₇₁
2000 DA ₇₂	15.8	0.15	20000317	17.27260	2.42186	141.28071	1.54976	0.2367008	3.0801585	15	1	36 days	0.51		Williams	2000 DA ₇₂

2000 DB ₇₂	14.9	0.15	20000317	87.83857	59.13172	14.06841	2.50465	0.0939924	2.8011716	26	1	37 days	0.49		Williams		2000 DB ₇₂
2000 DL ₇₂	14.8	0.15	20000226	260.22881	283.30230	352.61079	14.48835	0.0758739	2.6961805	37	1	51 days	0.58		Williams		2000 DL ₇₂
2000 DO ₇₂	13.5	0.15	20000226	132.81149	33.97194	355.35847	9.79227	0.0902580	3.2258821	43	3	1997–2000	0.83	M-v	3	Williams	39464 2000 DO ₇₂
2000 DP ₇₂	15.9	0.15	20000226	14.45136	63.98827	84.70119	1.03349	0.1059398	2.5160171	27	2	1994–2000	0.60	M-v	4	Williams	39464 2000 DP ₇₂
2000 DT ₇₂	13.3	0.15	20000226	252.87708	284.13616	356.68070	8.24952	0.0431065	3.1188628	61	4	1991–2000	0.54	M-v	1	Williams	39464 2000 DT ₇₂
2000 DW ₇₂	16.3	0.15	20000317	349.48666	183.66818	1.91932	4.15526	0.0797682	2.2920886	33	1	37 days	0.52		Williams		2000 DW ₇₂
2000 DX ₇₂	15.5	0.15	20000317	9.62689	165.27327	354.38546	3.60448	0.1321538	3.0187306	24	1	36 days	0.69		Williams		2000 DX ₇₂
2000 DZ ₇₂	16.8	0.15	20000317	1.41869	182.06353	348.81840	8.01712	0.2344259	2.7816671	24	1	37 days	0.55		Williams		2000 DZ ₇₂
2000 DA ₇₃	16.2	0.15	20000226	356.55113	181.25219	349.36061	3.09548	0.1434611	2.3845507	58	1	50 days	0.62		Williams		2000 DA ₇₃
2000 DB ₇₃	14.9	0.15	20000317	64.00081	4.78845	85.16462	0.64751	0.1653399	3.1576683	26	1	36 days	0.65		Williams		2000 DB ₇₃
2000 DC ₇₃	14.9	0.15	20000226	163.87051	192.19222	166.93056	6.86133	0.2192464	2.3158786	46	3	1991–2000	0.67	M-v	3	Williams	39464 2000 DC ₇₃
2000 DD ₇₃	15.9	0.15	20000317	341.24871	203.82812	353.01562	2.11847	0.1149908	2.4242445	30	1	37 days	0.56		Williams		2000 DD ₇₃
2000 DH ₇₃	16.1	0.15	20000317	20.67205	354.76428	154.24373	2.88722	0.0808941	2.7324635	26	1	37 days	0.45		Williams		2000 DH ₇₃
2000 DM ₇₃	14.9	0.15	20000317	64.73805	305.14901	158.64888	2.95170	0.0487587	3.0304836	20	1	37 days	0.53		Williams		2000 DM ₇₃
2000 DN ₇₃	15.3	0.15	20000317	286.40313	263.77834	0.41551	5.35896	0.1491268	2.2888626	37	1	37 days	0.49		Williams		2000 DN ₇₃
2000 DO ₇₃	14.4	0.15	20000317	198.11759	341.26226	1.29522	3.61441	0.2753678	2.2890820	39	1	39 days	0.49		Williams		2000 DO ₇₃
2000 DP ₇₃	15.7	0.15	20000317	275.16753	263.84628	12.78369	2.79007	0.1597094	2.3499631	28	1	37 days	0.55		Williams		2000 DP ₇₃
2000 DQ ₇₃	14.7	0.15	20000226	109.70078	261.92262	151.17273	2.36276	0.0694235	2.8868819	42	1	57 days	0.55		Williams		2000 DQ ₇₃
2000 DS ₇₃	14.9	0.15	20000317	272.73197	94.74575	175.94729	2.77539	0.0871288	2.5633274	42	1	38 days	0.60		Williams		2000 DS ₇₃
2000 DU ₇₃	16.0	0.15	20000226	65.51645	98.67642	349.89475	5.79220	0.1234987	2.3260772	27	3	1993–2000	0.70	M-v	3	Williams	39465 2000 DU ₇₃
2000 DW ₇₃	15.8	0.15	20000317	304.13555	254.45827	354.95036	5.38865	0.1826089	2.5536194	43	1	41 days	0.52		Williams		2000 DW ₇₃
2000 DX ₇₃	13.5	0.15	20000226	16.40993	251.49993	256.19840	0.48888	0.1288511	3.1172436	66	2	1998–2000	0.53	M-v	5	Williams	39465 2000 DX ₇₃
2000 DY ₇₃	13.4	0.15	20000226	226.60580	59.23435	250.40812	0.94830	0.0810577	2.8761948	59	4	1978–2000	0.59	M-v	1	Williams	39465 2000 DY ₇₃
2000 DA ₇₄	14.1	0.15	20000317	227.75232	326.39071	345.91100	10.61911	0.0795602	2.9789595	16	1	36 days	0.39		Williams		2000 DA ₇₄
2000 DC ₇₄	15.9	0.15	20000317	341.11173	28.98944	170.81494	5.97411	0.1463759	2.2650933	54	1	39 days	0.52		Williams		2000 DC ₇₄
2000 DD ₇₄	15.5	0.15	20000317	113.29172	135.99323	280.16641	1.02759	0.0480402	3.0508899	25	1	39 days	0.74		Williams		2000 DD ₇₄
2000 DF ₇₄	15.4	0.15	20000317	145.19876	156.88236	226.97205	1.76854	0.0766743	2.7292331	28	1	41 days	0.48		Williams		2000 DF ₇₄
2000 DG ₇₄	14.5	0.15	20000317	257.13796	99.74297	195.48391	3.28288	0.1790111	2.4623668	22	1	37 days	0.38		Williams		2000 DG ₇₄
2000 DH ₇₄	13.9	0.15	20000226	67.65871	106.92518	342.14316	12.61445	0.1159045	2.7219029	48	1	87 days	0.54	M-v	4	Williams	2000 DH ₇₄
2000 DJ ₇₄	14.9	0.15	20000317	243.27744	327.66294	326.64471	3.22883	0.0361179	2.5416283	17	1	36 days	0.70		Williams		2000 DJ ₇₄
2000 DK ₇₄	15.6	0.15	20000226	309.46590	310.25655	284.62739	1.60360	0.1631539	2.3752857	43	2	1997–2000	0.50	M-v	5	Williams	39465 2000 DK ₇₄
2000 DL ₇₄	14.6	0.15	20000226	208.90826	359.04258	331.95497	5.03928	0.2222928	2.2614016	50	3	1984–2000	0.66	M-v	3	Williams	39465 2000 DL ₇₄
2000 DM ₇₄	15.6	0.15	20000226	348.10778	226.61142	315.78297	2.45293	0.0970952	2.3283736	25	2	1993–2000	0.53	M-v	5	Williams	39465 2000 DM ₇₄
2000 DR ₇₄	13.7	0.15	20000226	162.43114	83.91389	281.48237	1.63293	0.1045992	2.7102981	81	3	1996–2000	0.60	M-v	4	Williams	39466 2000 DR ₇₄
2000 DS ₇₄	16.9	0.15	20000317	313.92143	43.96364	185.08184	5.59033	0.0963223	2.2606404	32	1	40 days	0.61		Williams		2000 DS ₇₄
2000 DX ₇₄	14.1	0.15	20000226	171.52743	29.18729	328.46207	5.12576	0.0869757	2.5290853	44	2	1998–2000	0.63	M-v	4	Williams	39466 2000 DX ₇₄
2000 DY ₇₄	14.1	0.15	20000226	334.35051	306.68997	251.43207	2.07248	0.0649405	2.4232812	79	2	1998–2000	0.55	M-v	3	Williams	39466 2000 DY ₇₄
2000 DB ₇₅	14.9	0.15	20000226	54.79612	275.87605	193.06347	4.05253	0.0703694	2.7642120	36	2	1998–2000	0.75	M-v	4	Williams	39467 2000 DB ₇₅
2000 DD ₇₅	14.2	0.15	20000226	97.50236	132.92151	295.27726	2.38237	0.0470556	2.6328633	62	2	1998–2000	0.64	M-v	4	Williams	39467 2000 DD ₇₅
2000 DE ₇₅	16.6	0.15	20000317	57.54048	223.02184	238.04783	1.59825	0.1576744	2.3800746	27	1	38 days	0.65		Williams		2000 DE ₇₅
2000 DG ₇₅	14.3	0.15	20000226	290.92182	311.71042	303.74885	1.63453	0.1441432	2.4181827	77	5	1992–2000	0.53	M-v	1	Williams	39467 2000 DG ₇₅
2000 DJ ₇₅	14.5	0.15	20000317	328.73484	243.51238	328.23368	3.73079	0.0670205	3.1686320	43	1	44 days	0.68		Williams		2000 DJ ₇₅
2000 DN ₇₅	16.6	0.15	20000226	3.02464	9.16305	149.28588	5.00138	0.0861556	2.2347386	30	1	52 days	0.54		Williams		2000 DN ₇₅
2000 DQ ₇₅	14.3	0.15	20000226	266.69094	259.81879	12.49007	3.94856	0.1411567	2.6079570	40	2	1993–2000	0.79	M-v	4	Williams	39467 2000 DQ ₇₅
2000 DR ₇₅	15.5	0.15	20000317	311.27737	89.90092	144.20329	4.86766	0.1719684	2.7242062	22	1	34 days	0.47		Williams		2000 DR ₇₅
2000 DV ₇₅	15.3	0.15	20000317	185.41096	187.98909	156.09108	5.94358	0.1323359	2.3802945	19	1	34 days	0.39		Williams		2000 DV ₇₅
2000 DW ₇₅	15.9	0.15	20000226	115.94417	243.64676	153.58480	6.85766	0.1061079	2.2658312	15	1	12 days	0.46		Williams		2000 DW ₇₅
2000 DB ₇₆	14.4	0.15	20000226	358.55161	3.12757	162.57585	9.11476	0.0845324	2.7977711	27	1	60 days	0.50	M-v	5	Williams	2000 DB ₇₆
2000 DG ₇₆	15.3	0.15	20000226	160.34115	18.68443	341.99625	6.41446	0.1187558	2.3135367	37	1	11 days	0.38		Williams		2000 DG ₇₆
2000 DJ ₇₆	16.2	0.15	20000206	71.29839	78.29739	341.05256	9.66419	0.2550292	2.4124228	34	1	34 days	0.60		Williams		2000 DJ ₇₆
2000 DL ₇₆	15.7	0.15	20000226	115.90730	60.07068	333.26977	7.84194	0.1717546	2.2203043	19	1	13 days	0.57		Williams		2000 DL ₇₆
2000 DM ₇₆	13.8	0.15	20000226	48.93528	247.40598	210.35134	1.94811	0.1930056	3.1989750	61	2	1998–2000	0.53	M-v	3	Williams	39468 2000 DM ₇₆
2000 DO ₇₆	16.1	0.15	20000226	353.43985	355.47588	178.27569	7.82983	0.1388523	2.6299593	34	1	35 days	0.69		Williams		2000 DO ₇₆

2000 DS ₇₆	13.7	0.15	20000226	69.43928	118.82935	330.30159	4.76340	0.0777138	3.4580286	28	2	1993–2000	0.44	M-v	5	Williams	39468	2000 DS ₇₆
2000 DW ₇₆	15.8	0.15	20000226	263.52018	322.26505	313.79590	1.48240	0.1301930	2.2596184	42	1	52 days	0.54			Williams		2000 DW ₇₆
2000 DF ₇₇	15.3	0.15	20000226	16.45604	341.77713	156.98001	4.64154	0.1970965	2.5516784	52	1	52 days	0.49			Williams		2000 DF ₇₇
2000 DG ₇₇	15.3	0.15	20000226	51.31153	109.56136	354.09669	6.36629	0.1009471	2.5767578	24	1	13 days	0.46			Williams		2000 DG ₇₇
2000 DP ₇₇	14.3	0.15	20000317	89.71347	31.46175	29.55083	2.07647	0.1661635	3.2123612	20	1	36 days	0.53			Williams		2000 DP ₇₇
2000 DZ ₇₇	14.1	0.15	20000317	47.49519	311.21746	168.56428	2.22991	0.0538849	3.0666195	20	1	37 days	0.60			Williams		2000 DZ ₇₇
2000 DA ₇₈	14.4	0.15	20000226	228.35060	320.92149	350.00408	5.13464	0.1592960	2.2626295	48	1	58 days	0.50			Williams		2000 DA ₇₈
2000 DB ₇₈	16.3	0.15	20000226	79.41467	92.51074	342.80442	6.87079	0.1000925	2.3824482	17	1	11 days	0.39			Williams		2000 DB ₇₈
2000 DC ₇₈	16.6	0.15	20000226	305.48209	247.37972	338.79239	3.83037	0.0568866	2.1915632	43	1	49 days	0.72			Williams		2000 DC ₇₈
2000 DD ₇₈	15.3	0.15	20000226	275.17597	286.62640	341.85444	1.99645	0.1458316	2.3926369	36	1	53 days	0.50			Williams		2000 DD ₇₈
2000 DE ₇₈	14.1	0.15	20000226	184.13621	158.22696	187.24274	5.59105	0.2753265	2.3553492	34	5	1976–2000	0.60	M-v	2	Williams	39469	2000 DE ₇₈
2000 DJ ₇₈	14.5	0.15	20000317	52.06248	253.35892	197.71429	3.03913	0.2719258	2.6252692	19	1	37 days	0.42			Williams		2000 DJ ₇₈
2000 DL ₇₈	14.8	0.15	20000226	339.77481	317.63514	237.15817	1.37710	0.1626703	2.3480492	68	2	1998–2000	0.57	M-v	3	Williams	39469	2000 DL ₇₈
2000 DS ₇₈	13.7	0.15	20000226	80.86029	278.38155	160.86283	3.02834	0.0653745	3.1405820	47	2	1998–2000	0.60	M-v	4	Williams	39469	2000 DS ₇₈
2000 DU ₇₈	14.7	0.15	20000226	295.02813	240.73017	1.11728	4.52705	0.0926183	2.3025598	57	3	1994–2000	0.49	M-v	4	Williams	39469	2000 DU ₇₈
2000 DW ₇₈	15.5	0.15	20000226	340.41755	38.44514	153.79710	4.56505	0.0870897	2.7576302	36	1	57 days	0.51			Williams		2000 DW ₇₈
2000 DX ₇₈	14.5	0.15	20000226	212.08154	89.74895	238.52804	1.54352	0.1935343	2.4233125	33	2	1998–2000	0.64	M-v	5	Williams	39469	2000 DX ₇₈
2000 DC ₇₉	16.0	0.15	20000206	36.48119	316.64015	146.42999	3.47149	0.1271693	2.3860308	47	1	36 days	0.64			Williams		2000 DC ₇₉
2000 DF ₇₉	17.6	0.15	20000226	328.40710	218.17590	346.39452	23.37753	0.2372999	2.3210131	20	1	30 days	0.55			Williams		2000 DF ₇₉
2000 DG ₇₉	15.6	0.15	20000206	47.80249	286.40842	147.30093	32.25958	0.2806024	2.7537943	35	1	40 days	0.46			Williams		2000 DG ₇₉
2000 DM ₇₉	15.5	0.15	20000226	69.49477	3.24588	46.39908	2.86562	0.2083680	2.4080352	13	1	9 days	0.46			Williams		2000 DM ₇₉
2000 DP ₇₉	15.2	0.15	20000226	244.41179	263.29699	4.39942	6.92621	0.0964876	2.3108237	26	1	12 days	0.50			Williams		2000 DP ₇₉
2000 DV ₇₉	15.3	0.15	20000206	263.74624	239.63957	8.63535	2.63383	0.1224948	2.2554219	25	1	34 days	0.59			Williams		2000 DV ₇₉
2000 DZ ₇₉	15.2	0.15	20000226	169.51077	230.65150	101.81999	3.82608	0.1264073	2.3089627	16	1	7 days	0.69			Williams		2000 DZ ₇₉
2000 DV ₈₀	14.7	0.15	20000226	252.31538	171.03497	98.33590	4.70095	0.1565697	2.2785410	14	1	13 days	0.37			Williams		2000 DV ₈₀
2000 DD ₈₁	15.7	0.15	20000206	273.88048	132.20841	104.71486	5.96768	0.0848660	2.2343401	35	1	42 days	0.51			Williams		2000 DD ₈₁
2000 DA ₈₂	14.7	0.15	20000226	5.24252	11.36368	127.85721	19.52009	0.1179715	3.2509591	10	1	13 days	0.64			Williams		2000 DA ₈₂
2000 DB ₈₂	15.3	0.15	20000226	0.78628	82.29914	63.18464	4.23595	0.1360015	2.7403371	18	1	30 days	0.57			Williams		2000 DB ₈₂
2000 DX ₈₂	13.5	0.15	20000226	352.40161	48.15714	107.90446	8.47025	0.1023357	3.1411254	41	1	68 days	0.52	M-v	4	Williams		2000 DX ₈₂
2000 DA ₈₃	16.3	0.15	20000206	56.24163	348.73740	88.58457	4.20400	0.0917180	2.3173638	28	1	35 days	0.39			Williams		2000 DA ₈₃
2000 DB ₈₃	15.4	0.15	20000226	339.24825	46.68287	127.69981	7.21480	0.0966265	2.4543498	46	1	101 days	0.76			Williams		2000 DB ₈₃
2000 DD ₈₃	14.9	0.15	20000206	59.03927	306.81142	130.30255	11.47811	0.0763885	2.9864827	34	1	31 days	0.63			Williams		2000 DD ₈₃
2000 DF ₈₃	14.6	0.15	20000226	312.32600	176.42727	36.82586	2.21501	0.1685829	3.0349129	17	1	10 days	0.44			Williams		2000 DF ₈₃
2000 DK ₈₃	15.3	0.15	20000206	52.77767	1.42998	86.65737	2.48464	0.0516779	2.9600170	27	1	34 days	0.60			Williams		2000 DK ₈₃
2000 DM ₈₃	15.5	0.15	20000206	259.46397	155.68013	110.11036	4.61757	0.1907778	2.2295718	47	1	37 days	0.41			Williams		2000 DM ₈₃
2000 DO ₈₃	15.0	0.15	20000206	82.72883	61.26713	355.98327	8.48229	0.0391983	2.8121482	32	1	35 days	0.42			Williams		2000 DO ₈₃
2000 DR ₈₃	15.8	0.15	20000206	352.84934	120.09753	32.05284	4.95125	0.1275233	2.6100084	23	1	30 days	0.55			Williams		2000 DR ₈₃
2000 DT ₈₃	16.3	0.15	20000206	282.39742	227.87622	6.99799	8.07696	0.1167219	2.5778098	17	1	27 days	0.53			Williams		2000 DT ₈₃
2000 DN ₈₄	13.8	0.15	20000226	119.64037	49.75640	322.94790	7.86567	0.0809299	3.1730148	31	1	64 days	0.60	M-v	5	Williams		2000 DN ₈₄
2000 DO ₈₄	16.1	0.15	20000206	340.03089	199.72637	321.69903	5.29890	0.0966446	2.3086997	30	1	32 days	0.44			Williams		2000 DO ₈₄
2000 DQ ₈₄	15.3	0.15	20000206	308.33779	62.46021	133.26823	7.17723	0.0734797	2.4417375	30	1	34 days	0.55			Williams		2000 DQ ₈₄
2000 DZ ₈₄	15.1	0.15	20000226	280.30306	118.33355	130.69808	13.76989	0.1819671	2.6802427	26	1	16 days	0.76			Williams		2000 DZ ₈₄
2000 DH ₈₅	14.8	0.15	20000226	136.98593	263.85271	102.15083	7.68416	0.0961444	2.3734018	13	1	8 days	0.50			Williams		2000 DH ₈₅
2000 DJ ₈₅	14.6	0.15	20000206	151.70965	275.53205	69.35117	6.46308	0.2064779	2.5487769	21	1	31 days	0.43			Williams		2000 DJ ₈₅
2000 DL ₈₅	14.7	0.15	20000226	32.30727	1.26424	104.52990	8.00421	0.1658710	2.7419601	37	1	68 days	0.54	M-v	4	Williams		2000 DL ₈₅
2000 DN ₈₅	14.1	0.15	20000206	37.77215	348.33442	116.05375	9.42547	0.0510458	3.0027924	21	1	27 days	0.46			Williams		2000 DN ₈₅
2000 DO ₈₅	15.2	0.15	20000206	59.55890	55.53415	8.75620	8.39927	0.1904949	2.5741768	44	1	37 days	0.55			Williams		2000 DO ₈₅
2000 DR ₈₅	17.1	0.15	20000206	350.52572	82.12313	76.28543	4.06261	0.2170832	2.3694128	28	1	38 days	0.68			Williams		2000 DR ₈₅
2000 DT ₈₅	16.1	0.15	20000206	259.51918	125.05820	129.34338	14.67060	0.0666534	2.6232646	25	1	34 days	0.69			Williams		2000 DT ₈₅
2000 DX ₈₅	14.3	0.15	20000226	26.31727	119.58906	350.88713	18.38166	0.1890305	3.1819738	19	1	12 days	0.42			Williams		2000 DX ₈₅
2000 DY ₈₅	17.0	0.15	20000317	22.69448	357.60332	122.23104	9.23973	0.2745345	2.6034092	16	1	35 days	0.36			Williams		2000 DY ₈₅
2000 DE ₈₆	13.8	0.15	20000206	288.29871	119.92100	122.27514	10.99796	0.1977305	3.1806447	47	1	38 days	0.48			Williams		2000 DE ₈₆
2000 DJ ₈₆	14.9	0.15	20000206	210.29693	226.52106	79.67179	5.01331	0.1644924	2.2883793	40	1	38 days	0.58			Williams		2000 DJ ₈₆

2000 APR. 18

M.P.C. 40469

2000 DL ₈₆	15.5	0.15	20000206	308.03478	117.17107	92.45919	4.92887	0.1105922	2.2485351	28	1	38 days	0.81		Williams		2000 DL ₈₆
2000 DX ₈₆	15.2	0.15	20000226	350.34135	118.37350	48.96540	5.18807	0.1218600	2.3261679	43	2	1998–2000	0.58	M-v 4	Williams	39471	2000 DX ₈₆
2000 DD ₈₇	13.9	0.15	20000226	49.27178	110.78251	350.74912	16.33229	0.0464541	2.7566527	59	1	84 days	0.56	M-v 4	Williams		2000 DD ₈₇
2000 DL ₈₇	14.1	0.15	20000206	121.18259	257.33738	118.85252	12.27569	0.0927939	3.0727071	20	1	30 days	0.62		Williams		2000 DL ₈₇
2000 DN ₈₇	14.1	0.15	20000226	91.21221	262.79463	125.63273	13.86667	0.2786648	2.8074900	15	1	8 days	0.71		Williams		2000 DN ₈₇
2000 DB ₈₈	14.6	0.15	20000226	129.18804	9.78812	13.66525	2.64378	0.0388303	2.5138741	60	2	1998–2000	0.67	M-v 4	Williams	39471	2000 DB ₈₈
2000 DE ₈₈	15.5	0.15	20000226	339.20388	173.76526	12.44129	2.78005	0.1184143	2.6070849	41	1	52 days	0.41		Williams		2000 DE ₈₈
2000 DF ₈₈	14.4	0.15	20000226	281.76404	236.85380	22.81415	2.31554	0.1858840	2.4225077	52	1	59 days	0.34		Williams		2000 DF ₈₈
2000 DG ₈₈	13.9	0.15	20000317	3.93118	163.82197	354.71666	8.12205	0.1377667	3.9875918	35	1	34 days	0.82		Williams		2000 DG ₈₈
2000 DH ₈₈	13.1	0.15	20000226	201.63976	287.51105	35.68973	2.33290	0.1122555	3.0112119	48	1	52 days	0.62		Williams		2000 DH ₈₈
2000 DQ ₈₈	16.9	0.15	20000226	347.83981	22.73299	154.08101	23.76606	0.0426374	1.9440957	29	1	51 days	0.38		Williams		2000 DQ ₈₈
2000 DX ₈₈	16.1	0.15	20000226	89.19054	86.53492	341.33808	6.34715	0.0508817	2.2729868	17	1	15 days	0.24		Williams		2000 DX ₈₈
2000 DR ₈₉	13.7	0.15	20000226	83.37977	267.79508	141.48608	7.35898	0.1390358	5.1959785	9	1	15 days	0.20		Williams		2000 DR ₈₉
2000 DZ ₈₉	16.4	0.15	20000206	75.26339	87.78263	318.83472	7.79947	0.1448337	2.3055197	12	1	25 days	0.25		Williams		2000 DZ ₈₉
2000 DH ₉₁	13.8	0.15	20000226	208.16832	154.94779	166.14520	12.10441	0.1434260	3.1388655	38	1	38 days	1.27		Williams		2000 DH ₉₁
2000 DJ ₉₁	15.8	0.15	20000226	291.59033	79.15490	166.71598	8.03093	0.1356049	3.1577789	19	1	13 days	0.55		Williams		2000 DJ ₉₁
2000 DT ₉₁	16.5	0.15	20000226	274.94405	284.21548	340.97679	3.52478	0.1595118	2.2449425	26	1	13 days	0.55		Williams		2000 DT ₉₁
2000 DC ₉₂	14.0	0.15	20000226	312.97878	54.48376	178.28553	5.86402	0.0959335	3.0808413	66	1	64 days	0.51	M-v 5	Williams		2000 DC ₉₂
2000 DD ₉₂	14.4	0.15	20000317	99.55367	80.51187	359.71837	4.84708	0.0148533	3.0475259	40	1	40 days	0.54		Williams		2000 DD ₉₂
2000 DF ₉₂	14.6	0.15	20000317	255.06831	121.24292	171.75386	1.76373	0.0604215	2.7920262	27	1	40 days	0.55		Williams		2000 DF ₉₂
2000 DK ₉₂	15.1	0.15	20000317	99.22260	63.36820	3.13437	8.55592	0.1524957	2.7691359	17	1	39 days	0.28		Williams		2000 DK ₉₂
2000 DL ₉₂	14.9	0.15	20000317	3.25056	163.39153	15.08771	3.59088	0.1399522	2.6237256	48	1	43 days	0.44		Williams		2000 DL ₉₂
2000 DM ₉₂	15.3	0.15	20000226	337.13836	81.87736	124.05037	1.18406	0.1557862	2.3016892	84	2	1993–2000	0.53	M-v 4	Williams	39472	2000 DM ₉₂
2000 DN ₉₂	15.4	0.15	20000226	349.07448	72.49074	120.40222	1.37802	0.2265005	2.6083697	65	1	62 days	0.53	M-v 4	Williams		2000 DN ₉₂
2000 DQ ₉₂	15.7	0.15	20000317	271.10661	254.41135	40.75925	2.64795	0.1910495	2.6656594	13	1	40 days	0.46		Williams		2000 DQ ₉₂
2000 DS ₉₃	16.2	0.15	20000206	343.37621	143.53823	23.46231	2.72098	0.1857335	2.5954603	31	1	35 days	0.46		Williams		2000 DS ₉₃
2000 DT ₉₃	14.9	0.15	20000206	270.02778	108.13953	132.33101	10.21545	0.0549842	3.1688929	25	1	31 days	0.63		Williams		2000 DT ₉₃
2000 DV ₉₃	15.9	0.15	20000206	36.69183	114.53396	342.58583	12.27300	0.1198268	2.7680411	23	1	35 days	0.70		Williams		2000 DV ₉₃
2000 DZ ₉₃	14.0	0.15	20000206	165.94894	344.31878	350.56376	6.78168	0.2228235	3.0475048	37	1	37 days	0.79		Williams		2000 DZ ₉₃
2000 DA ₉₄	15.0	0.15	20000206	44.60834	81.27809	16.33482	3.36232	0.0312985	2.7057727	33	1	37 days	0.55		Williams		2000 DA ₉₄
2000 DB ₉₄	15.7	0.15	20000206	283.29177	135.04405	105.36352	3.04036	0.1650227	2.3649629	34	1	34 days	0.78		Williams		2000 DB ₉₄
2000 DG ₉₄	14.5	0.15	20000226	61.60790	352.05068	94.71937	3.28826	0.0173850	2.5536550	69	2	1998–2000	0.67	M-v 3	Williams	39472	2000 DG ₉₄
2000 DH ₉₄	14.4	0.15	20000226	346.24951	53.92688	118.09525	5.05194	0.2041492	2.6700491	57	1	65 days	0.41	M-v 4	Williams		2000 DH ₉₄
2000 DL ₉₄	15.6	0.15	20000206	136.47397	14.98877	342.98464	14.04465	0.1467251	2.6195425	17	1	28 days	0.51		Williams		2000 DL ₉₄
2000 DS ₉₄	13.6	0.15	20000226	79.83405	88.43196	336.70953	21.78767	0.0448197	3.1558301	30	1	61 days	0.48	M-v 5	Williams		2000 DS ₉₄
2000 DU ₉₄	16.4	0.15	20000206	307.95372	118.79608	86.03590	2.01166	0.0765513	2.1609425	32	1	38 days	0.68		Williams		2000 DU ₉₄
2000 DD ₉₅	17.5	0.15	20000206	12.27997	123.13501	3.91270	4.47441	0.1773410	2.3328284	21	1	28 days	0.71		Williams		2000 DD ₉₅
2000 DF ₉₅	14.6	0.15	20000226	166.21400	242.74508	101.32295	2.88203	0.0502436	3.1717741	17	1	15 days	0.41		Williams		2000 DF ₉₅
2000 DZ ₉₅	16.0	0.15	20000206	13.39241	115.63164	11.45124	3.88839	0.1357965	2.4270418	28	1	37 days	0.59		Williams		2000 DZ ₉₅
2000 DD ₉₆	14.8	0.15	20000226	67.10623	229.56071	188.34593	0.56844	0.1571186	2.6199016	33	1	61 days	0.73	M-v 5	Williams		2000 DD ₉₆
2000 DH ₉₆	13.9	0.15	20000226	214.31454	328.56559	326.71316	2.99556	0.1271951	2.6814800	46	2	1993–2000	0.55	M-v 4	Williams	39473	2000 DH ₉₆
2000 DJ ₉₆	15.9	0.15	20000206	323.79617	48.58214	137.81480	2.51797	0.1473552	2.4332511	42	1	27 days	0.56		Williams		2000 DJ ₉₆
2000 DD ₉₇	15.7	0.15	20000206	303.23628	237.38082	344.23605	4.84707	0.2130218	2.3108954	36	1	37 days	0.44		Williams		2000 DD ₉₇
2000 DL ₉₇	15.0	0.15	20000206	198.51455	324.51364	348.45861	2.97922	0.1191248	2.6444572	40	1	35 days	0.63		Williams		2000 DL ₉₇
2000 DM ₉₇	15.0	0.15	20000226	285.55413	266.49620	332.95562	7.99164	0.1042270	2.5969386	35	1	62 days	0.55	M-v 5	Williams		2000 DM ₉₇
2000 DR ₉₇	15.6	0.15	20000226	52.81707	20.21194	50.56790	5.11107	0.2536463	2.5690217	14	1	8 days	0.84		Williams		2000 DR ₉₇
2000 DT ₉₇	16.3	0.15	20000206	52.75220	43.69444	32.86126	5.03394	0.1679102	2.5429381	19	1	31 days	0.51		Williams		2000 DT ₉₇
2000 DY ₉₇	14.5	0.15	20000226	101.83313	254.43327	136.25538	13.87597	0.2003366	2.6654083	27	1	30 days	0.41		Williams		2000 DY ₉₇
2000 DJ ₉₈	13.9	0.15	20000226	192.61682	195.47686	128.92595	10.21536	0.0734526	2.7363886	40	1	62 days	0.49	M-v 5	Williams		2000 DJ ₉₈
2000 DN ₉₈	15.6	0.15	20000206	44.02400	43.34773	51.46334	5.08475	0.1185468	2.6085645	26	1	37 days	0.66		Williams		2000 DN ₉₈
2000 DO ₉₈	13.1	0.15	20000226	134.79112	249.30442	123.28702	11.57612	0.1129808	2.9781565	46	1	60 days	0.39	M-v 5	Williams		2000 DO ₉₈
2000 DP ₉₈	14.1	0.15	20000226	195.16512	249.57573	71.53904	6.11692	0.0351476	2.7202803	38	2	1998–2000	0.51	M-v 4	Williams	39474	2000 DP ₉₈
2000 DQ ₉₈	15.4	0.15	20000317	255.61086	160.23740	126.69687	8.66077	0.2200329	2.3194572	20	1	36 days	0.57		Williams		2000 DQ ₉₈

2000 DV ₉₈	14.0	0.15	20000226	351.60033	154.72615	6.46012	9.41194	0.0124261	3.0695810	28	1	60 days	0.58	M-v	5	Williams	2000 DV ₉₈
2000 DA ₉₉	14.5	0.15	20000206	146.69063	347.03921	4.65512	8.02846	0.1764454	2.7068567	22	1	31 days	0.58			Williams	2000 DA ₉₉
2000 DC ₉₉	16.6	0.15	20000206	295.53699	85.24634	145.77831	6.72000	0.1679253	2.2762640	30	1	33 days	0.49			Williams	2000 DC ₉₉
2000 DG ₉₉	14.2	0.15	20000226	226.01332	159.80862	144.35274	4.05246	0.2046172	2.4820272	40	3	1984–2000	0.54	M-v	4	Williams	39474 2000 DG ₉₉
2000 DN ₉₉	13.8	0.15	20000226	121.26713	280.64522	102.22588	6.57732	0.1305722	2.4735748	68	3	1997–2000	0.63	M-v	3	Williams	39474 2000 DN ₉₉
2000 DP ₉₉	14.5	0.15	20000206	359.92045	82.68948	69.75703	6.08394	0.1610062	3.9361263	31	1	38 days	0.52			Williams	2000 DP ₉₉
2000 DR ₉₉	14.6	0.15	20000226	90.14095	324.59465	97.59894	6.21677	0.0349110	2.7795224	28	1	52 days	0.42			Williams	2000 DR ₉₉
2000 DV ₉₉	14.1	0.15	20000226	211.09093	274.11970	37.49633	7.36536	0.1283850	2.4604927	37	1	60 days	0.46	M-v	4	Williams	2000 DV ₉₉
2000 DW ₉₉	13.8	0.15	20000226	291.17863	232.59585	1.50695	14.53446	0.0861903	2.6239164	56	2	1996–2000	0.50	M-v	4	Williams	39475 2000 DW ₉₉
2000 DC ₁₀₀	17.1	0.15	20000226	21.67181	21.80995	108.67813	3.91024	0.1085876	2.1829024	26	1	16 days	0.60			Williams	2000 DC ₁₀₀
2000 DD ₁₀₀	16.3	0.15	20000226	86.18957	25.24334	24.73892	5.45958	0.1858978	2.2414626	26	1	30 days	0.68			Williams	2000 DD ₁₀₀
2000 DE ₁₀₀	16.6	0.15	20000226	288.74049	174.91919	69.66003	3.65423	0.1385672	2.3873297	36	1	52 days	0.61			Williams	2000 DE ₁₀₀
2000 DF ₁₀₀	13.6	0.15	20000226	259.68988	275.30358	358.79965	13.03660	0.1533301	3.2127488	28	2	1990–2000	0.51	M-v	5	Williams	39475 2000 DF ₁₀₀
2000 DH ₁₀₀	16.8	0.15	20000226	24.97072	97.67705	21.20634	6.62913	0.2081587	2.5464661	34	1	55 days	0.65			Williams	2000 DH ₁₀₀
2000 DN ₁₀₀	15.8	0.15	20000226	131.54572	274.11689	100.12685	4.44218	0.1647987	2.2133704	32	1	54 days	0.66			Williams	2000 DN ₁₀₀
2000 DO ₁₀₀	17.4	0.15	20000317	332.73345	154.51670	47.85284	3.75238	0.1583094	2.3068366	23	1	34 days	0.58			Williams	2000 DO ₁₀₀
2000 DQ ₁₀₀	14.9	0.15	20000206	357.28896	66.75928	90.51060	5.47627	0.0151063	3.0826351	27	1	37 days	0.58			Williams	2000 DQ ₁₀₀
2000 DR ₁₀₀	13.8	0.15	20000206	196.81696	308.97343	13.45318	9.10792	0.1399989	3.0377571	32	1	37 days	0.65			Williams	2000 DR ₁₀₀
2000 DT ₁₀₀	13.8	0.15	20000226	67.56345	20.50118	56.34346	5.56555	0.1227776	2.5942557	64	3	1971–2000	0.66	M-v	2	Williams	39475 2000 DT ₁₀₀
2000 DW ₁₀₀	15.3	0.15	20000226	200.46515	300.01196	23.41831	6.35228	0.1631286	2.3011335	30	1	52 days	0.61			Williams	2000 DW ₁₀₀
2000 DX ₁₀₀	16.3	0.15	20000226	106.31927	359.09066	37.55212	4.75301	0.1525202	2.1729054	19	1	12 days	0.48			Williams	2000 DX ₁₀₀
2000 DA ₁₀₁	14.5	0.15	20000226	197.00490	309.31802	16.60003	7.36375	0.1374463	2.3161936	39	2	1998–2000	0.50	M-v	4	Williams	39475 2000 DA ₁₀₁
2000 DB ₁₀₁	15.5	0.15	20000206	80.28862	317.76866	100.40547	5.35843	0.1329307	2.3650671	29	1	37 days	0.70			Williams	2000 DB ₁₀₁
2000 DC ₁₀₁	14.8	0.15	20000226	318.64130	73.49339	138.85528	9.97919	0.1345572	2.5657884	44	1	60 days	0.49	M-v	5	Williams	2000 DC ₁₀₁
2000 DD ₁₀₁	14.4	0.15	20000226	292.90992	253.12357	355.45910	14.91621	0.1981878	2.6458053	43	2	1997–2000	0.44	M-v	3	Williams	39475 2000 DD ₁₀₁
2000 DE ₁₀₁	13.4	0.15	20000226	238.16581	278.44134	9.41014	9.89840	0.0719694	3.0463126	41	1	59 days	0.51			Williams	2000 DE ₁₀₁
2000 DJ ₁₀₁	14.1	0.15	20000317	207.35333	265.65004	51.23474	6.02945	0.0216698	3.0687540	22	1	34 days	0.51			Williams	2000 DJ ₁₀₁
2000 DM ₁₀₁	14.5	0.15	20000226	269.69625	248.97800	13.62649	9.09934	0.1114070	2.7654761	37	1	59 days	1.24			Williams	2000 DM ₁₀₁
2000 DN ₁₀₁	15.1	0.15	20000226	8.80867	29.44876	119.68846	7.15100	0.0563564	2.3391708	46	3	1993–2000	0.62	M-v	3	Williams	39475 2000 DN ₁₀₁
2000 DO ₁₀₁	12.9	0.15	20000226	53.18288	334.44919	129.51114	11.62053	0.0266536	3.1549008	49	1	60 days	0.43	M-v	4	Williams	2000 DO ₁₀₁
2000 DR ₁₀₁	13.9	0.15	20000226	143.14367	358.61985	6.42363	13.21701	0.1839232	2.6769812	38	3	1989–2000	0.63	M-v	3	Williams	39476 2000 DR ₁₀₁
2000 DV ₁₀₁	14.4	0.15	20000226	275.64340	247.29696	12.73956	11.41927	0.1530895	2.6385660	37	3	1993–2000	0.68	M-v	4	Williams	39476 2000 DV ₁₀₁
2000 DZ ₁₀₁	14.7	0.15	20000226	224.12290	159.65344	144.39264	15.64876	0.1017634	2.5562084	36	1	53 days	0.52			Williams	2000 DZ ₁₀₁
2000 DD ₁₀₂	15.4	0.15	20000226	61.73084	304.44141	135.38009	8.72356	0.1707014	2.4294587	26	1	59 days	0.53			Williams	2000 DD ₁₀₂
2000 DE ₁₀₂	16.6	0.15	20000317	313.09130	118.42117	108.77037	4.62238	0.1445821	2.3101400	18	1	34 days	0.57			Williams	2000 DE ₁₀₂
2000 DH ₁₀₂	15.3	0.15	20000226	256.41490	170.43035	111.59321	6.19556	0.1743079	2.2545058	34	1	59 days	0.65			Williams	2000 DH ₁₀₂
2000 DK ₁₀₂	16.3	0.15	20000226	44.92241	17.01559	71.64128	4.65513	0.2621675	2.6093687	28	1	30 days	0.54			Williams	2000 DK ₁₀₂
2000 DL ₁₀₂	14.0	0.15	20000226	193.75755	289.68087	39.88247	6.44620	0.1141753	2.6675437	47	2	1998–2000	0.66	M-v	4	Williams	39476 2000 DL ₁₀₂
2000 DM ₁₀₂	12.6	0.15	20000226	287.73218	113.79865	125.04159	10.31784	0.0494625	3.1613503	77	4	1994–2000	0.63	M-v	1	Williams	39476 2000 DM ₁₀₂
2000 DO ₁₀₂	13.6	0.15	20000226	102.80239	345.19165	57.14123	5.43201	0.1493807	3.2040716	45	2	1998–2000	0.57	M-v	5	Williams	39476 2000 DO ₁₀₂
2000 DP ₁₀₂	14.2	0.15	20000317	97.25005	43.85302	14.47003	9.47327	0.0759841	3.0894051	31	1	34 days	0.46			Williams	2000 DP ₁₀₂
2000 DQ ₁₀₂	15.8	0.15	20000317	155.82604	255.82823	109.06246	5.69095	0.1129405	2.2855262	22	1	34 days	0.49			Williams	2000 DQ ₁₀₂
2000 DV ₁₀₂	13.8	0.15	20000226	104.60465	247.44532	145.32260	15.40106	0.2511297	3.1529769	38	1	26 days	0.55			Williams	2000 DV ₁₀₂
2000 DW ₁₀₂	17.0	0.15	20000226	18.02650	54.65317	80.08482	3.36199	0.1741273	2.4150061	31	1	52 days	0.53			Williams	2000 DW ₁₀₂
2000 DX ₁₀₂	14.6	0.15	20000226	237.13154	155.77981	135.76100	10.20130	0.0699688	3.0872050	30	1	52 days	0.81			Williams	2000 DX ₁₀₂
2000 DA ₁₀₃	16.0	0.15	20000226	330.40058	115.10618	80.38726	4.78448	0.0819172	2.4668019	31	1	53 days	0.44			Williams	2000 DA ₁₀₃
2000 DC ₁₀₃	14.9	0.15	20000226	246.29880	279.80988	14.03066	9.39490	0.2018561	2.5818803	45	1	59 days	0.47			Williams	2000 DC ₁₀₃
2000 DF ₁₀₃	14.5	0.15	20000226	121.02826	24.73765	2.84035	15.23175	0.1376855	2.5556580	42	2	1998–2000	0.66	M-v	3	Williams	39477 2000 DF ₁₀₃
2000 DH ₁₀₃	14.9	0.15	20000226	345.15781	82.79670	86.01859	1.45501	0.0215631	2.7636481	25	2	1996–2000	0.65	M-v	5	Williams	39477 2000 DH ₁₀₃
2000 DJ ₁₀₃	14.2	0.15	20000226	14.14677	135.67321	6.96684	13.96472	0.0948166	3.1330906	25	1	60 days	0.58	M-v	4	Williams	2000 DJ ₁₀₃
2000 DO ₁₀₃	14.0	0.15	20000226	290.63214	141.27433	105.17980	7.84200	0.1352119	3.0999141	19	1	26 days	0.40			Williams	2000 DO ₁₀₃
2000 DP ₁₀₃	13.4	0.15	20000226	191.84360	323.15972	9.95004	13.69881	0.1901389	2.6774133	44	3	1993–2000	0.49	M-v	3	Williams	39477 2000 DP ₁₀₃
2000 DR ₁₀₃	14.4	0.15	20000226	194.33052	234.32230	96.17527	4.93077	0.1020243	2.7152567	37	1	52 days	0.54			Williams	2000 DR ₁₀₃

2000 APR. 18

M.P.C. 40471

2000 DT ₁₀₃	14.5	0.15	20000226	138.93126	17.78439	3.97014	12.28414	0.0164701	2.8078945	32	1	52 days	0.45	Williams	2000 DT ₁₀₃
2000 DU ₁₀₃	14.7	0.15	20000226	96.81924	50.18691	7.17249	11.37153	0.0728707	3.1682699	29	1	59 days	0.49	Williams	2000 DU ₁₀₃
2000 DV ₁₀₃	14.7	0.15	20000226	252.85796	207.73339	71.38066	4.82402	0.0941621	2.5878651	36	1	52 days	0.42	Williams	2000 DV ₁₀₃
2000 DZ ₁₀₃	15.6	0.15	20000226	168.48622	315.94821	37.55903	5.90488	0.0137130	2.4314995	17	1	26 days	0.36	Williams	2000 DZ ₁₀₃
2000 DF ₁₀₄	13.8	0.15	20000226	145.69027	3.98520	7.74876	12.51231	0.1012794	2.7086666	38	2	1998–2000	0.58	M-v 4 Williams	39478 2000 DF ₁₀₄
2000 DK ₁₀₄	13.0	0.15	20000226	238.01322	280.66210	12.69329	13.16936	0.1002722	3.2012381	55	3	1991–2000	0.59	M-v 3 Williams	39478 2000 DK ₁₀₄
2000 DL ₁₀₄	15.2	0.15	20000317	279.12381	236.65203	26.60542	8.52261	0.1377864	2.6215517	26	1	34 days	0.43	Williams	2000 DL ₁₀₄
2000 DM ₁₀₄	14.7	0.15	20000226	47.37322	78.83854	29.06142	7.84955	0.0732557	2.5322190	33	2	1994–2000	0.43	M-v 4 Williams	39478 2000 DM ₁₀₄
2000 DW ₁₀₄	16.8	0.15	20000317	304.16259	113.56146	129.82241	7.34292	0.2089415	2.3034469	26	1	34 days	0.49	Williams	2000 DW ₁₀₄
2000 DX ₁₀₄	14.8	0.15	20000226	220.48978	215.14254	96.42099	4.78605	0.2048809	2.2524522	38	4	1981–2000	0.53	M-v 2 Williams	39478 2000 DX ₁₀₄
2000 DH ₁₀₅	14.8	0.15	20000226	179.18075	42.28224	303.52726	0.83909	0.1133398	2.6320301	33	1	12 days	0.47	Williams	2000 DH ₁₀₅
2000 DL ₁₀₅	14.2	0.15	20000226	178.88296	268.53261	77.13252	4.65827	0.1849787	2.5205927	33	2	1998–2000	0.58	M-v 5 Williams	39479 2000 DL ₁₀₅
2000 DO ₁₀₅	16.1	0.15	20000317	278.67919	163.63868	102.04973	5.21810	0.1281090	2.3232428	23	1	34 days	0.54	Williams	2000 DO ₁₀₅
2000 DP ₁₀₅	15.8	0.15	20000226	15.17880	44.12157	102.93686	4.85343	0.0507034	2.2581521	28	2	1993–2000	0.50	M-v 4 Williams	39479 2000 DP ₁₀₅
2000 DQ ₁₀₅	14.3	0.15	20000317	288.52900	120.77400	148.55926	14.72028	0.2396839	2.6346720	22	1	35 days	0.51	Williams	2000 DQ ₁₀₅
2000 DW ₁₀₅	15.5	0.15	20000317	112.12507	308.12984	96.25523	5.28063	0.1328220	2.1652338	17	1	34 days	0.47	Williams	2000 DW ₁₀₅
2000 DX ₁₀₅	14.1	0.15	20000226	30.90419	355.90461	132.39597	10.27878	0.0968385	3.0710022	28	1	51 days	0.55	Williams	2000 DX ₁₀₅
2000 DY ₁₀₅	12.9	0.15	20000226	106.58873	259.11913	149.75128	20.96638	0.1088939	3.1736205	27	1	64 days	0.65	M-v 5 Williams	2000 DY ₁₀₅
2000 DC ₁₀₆	13.6	0.15	20000317	154.03582	332.57884	37.32114	8.22307	0.0831965	3.0348957	15	1	34 days	0.51	Williams	2000 DC ₁₀₆
2000 DE ₁₀₆	14.3	0.15	20000317	281.54265	207.26473	60.52275	6.05654	0.1752621	2.5615005	21	1	38 days	0.43	Williams	2000 DE ₁₀₆
2000 DH ₁₀₆	13.7	0.15	20000226	34.33111	44.43411	77.78404	5.94556	0.1231521	3.1367957	37	3	1995–2000	0.48	M-v 3 Williams	39479 2000 DH ₁₀₆
2000 DJ ₁₀₆	14.5	0.15	20000226	237.26601	207.06364	87.74307	5.80248	0.0711435	2.5381386	35	3	1996–2000	0.61	M-v 3 Williams	39479 2000 DJ ₁₀₆
2000 DO ₁₀₆	16.3	0.15	20000226	347.75549	139.41529	42.37826	5.49433	0.1558652	2.5942964	34	1	57 days	0.71	Williams	2000 DO ₁₀₆
2000 DS ₁₀₆	13.0	0.15	20000226	161.59651	224.40951	139.77123	12.94199	0.0934673	3.1836807	23	1	62 days	0.51	M-v 5 Williams	2000 DS ₁₀₆
2000 DT ₁₀₆	12.4	0.15	20000226	113.50859	266.60403	137.32800	12.71980	0.1152239	3.3339537	61	2	1998–2000	0.60	M-v 3 Williams	39480 2000 DT ₁₀₆
2000 DU ₁₀₆	16.2	0.15	20000226	3.57254	86.55072	72.71122	4.82734	0.2157976	2.5505656	33	1	57 days	0.49	Williams	2000 DU ₁₀₆
2000 DY ₁₀₆	14.5	0.15	20000226	232.59103	250.56728	55.07897	6.89403	0.1390584	2.3540672	23	3	1976–2000	0.56	M-v 2 Williams	39480 2000 DY ₁₀₆
2000 DA ₁₀₇	16.8	0.15	20000226	30.05040	17.21111	112.62251	5.31095	0.0899886	2.2203836	26	1	56 days	0.64	Williams	2000 DA ₁₀₇
2000 DB ₁₀₇	14.5	0.15	20000226	61.63560	74.00268	30.02680	9.63667	0.0170500	2.6450501	25	2	1996–2000	0.46	M-v 5 Williams	39480 2000 DB ₁₀₇
2000 DC ₁₀₇	13.7	0.15	20000317	265.69450	238.15349	34.13308	10.05602	0.0525440	3.1367814	21	1	39 days	0.61	Williams	2000 DC ₁₀₇
2000 DE ₁₀₇	13.4	0.15	20000317	228.59337	261.62139	49.92332	7.74851	0.0915795	3.0218392	16	1	39 days	0.37	Williams	2000 DE ₁₀₇
2000 DG ₁₀₇	13.9	0.15	20000226	239.22102	165.10269	132.70752	10.63834	0.0827621	2.5495106	57	3	1997–2000	0.61	M-v 3 Williams	39480 2000 DG ₁₀₇
2000 DH ₁₀₇	13.0	0.15	20000226	234.35833	163.61167	153.20694	21.03032	0.2400365	3.0842827	40	1	57 days	0.53	Williams	2000 DH ₁₀₇
2000 DL ₁₀₇	14.8	0.15	20000317	332.08537	143.03992	66.46295	6.80284	0.1043692	2.7345689	27	1	39 days	0.56	Williams	2000 DL ₁₀₇
2000 DO ₁₀₇	14.5	0.15	20000317	113.78056	192.06421	215.27038	1.06785	0.1072657	2.9504112	27	1	37 days	0.72	Williams	2000 DO ₁₀₇
2000 DP ₁₀₇	17.8	0.15	20000226	263.65700	289.49197	358.88756	8.66244	0.3765069	1.3647725	140	1	26 days	0.62	Williams	2000 DP ₁₀₇
2000 DZ ₁₀₇	16.6	0.15	20000206	250.35583	195.15596	68.64166	2.28287	0.0970907	2.1705384	22	1	31 days	0.77	Williams	2000 DZ ₁₀₇
2000 DA ₁₀₈	16.4	0.15	20000206	321.29368	88.78958	104.42000	3.37327	0.1281233	2.4113287	32	1	37 days	0.67	Williams	2000 DA ₁₀₈
2000 DC ₁₀₈	14.1	0.15	20000206	82.18734	256.87372	134.62001	16.48628	0.2870448	3.0630826	21	1	30 days	0.51	Williams	2000 DC ₁₀₈
2000 DH ₁₀₈	14.5	0.15	20000206	237.61818	123.21269	155.12914	13.83548	0.1329850	2.7752543	25	1	39 days	0.70	Williams	2000 DH ₁₀₈
2000 DV ₁₀₈	13.8	0.15	20000317	247.33636	153.19995	122.79062	10.81028	0.0456483	3.0208624	21	1	34 days	0.54	Williams	2000 DV ₁₀₈
2000 DZ ₁₀₈	15.4	0.15	20000226	94.19256	62.80697	340.52955	4.92717	0.1487693	2.3043960	39	1	62 days	0.63	M-v 5 Williams	2000 DZ ₁₀₈
2000 DK ₁₀₉	14.3	0.15	20000226	170.75819	271.05130	71.86637	6.30238	0.1570989	2.3455444	46	2	1998–2000	0.50	M-v 4 Williams	39481 2000 DK ₁₀₉
2000 DN ₁₀₉	13.8	0.15	20000226	300.13654	206.31789	14.86674	10.13434	0.0464642	2.9952239	37	1	60 days	0.61	M-v 5 Williams	2000 DN ₁₀₉
2000 DR ₁₀₉	14.6	0.15	20000226	249.20535	243.65127	44.50765	6.55645	0.1297696	2.6560626	28	2	1993–2000	0.67	M-v 5 Williams	39481 2000 DR ₁₀₉
2000 DZ ₁₀₉	14.9	0.15	20000226	41.32205	299.12940	168.27940	5.49691	0.1747465	2.6473801	46	2	1998–2000	0.47	M-v 4 Williams	39481 2000 DZ ₁₀₉
2000 DC ₁₁₀	14.1	0.15	20000317	217.70232	159.01202	159.53669	10.60129	0.0771996	3.1227402	16	1	33 days	0.56	Williams	2000 DC ₁₁₀
2000 DF ₁₁₀	16.4	0.15	20000226	341.70270	316.51133	230.12377	0.68018	0.0772881	2.1708972	31	2	1998–2000	0.62	M-v 6 Williams	39481 2000 DF ₁₁₀
2000 DG ₁₁₀	13.5	0.15	20000226	73.10878	80.24293	18.40190	22.37445	0.0717975	2.5579238	48	1	93 days	0.41	M-v 5 Williams	2000 DG ₁₁₀
2000 DK ₁₁₀	14.0	0.15	20000226	321.89819	222.16715	349.23599	16.59722	0.1633200	3.1171874	46	1	59 days	0.56	Williams	2000 DK ₁₁₀
2000 DL ₁₁₀	15.2	0.15	20000226	355.26725	157.91583	8.55400	4.45255	0.1342578	2.7997602	41	1	60 days	0.59	M-v 5 Williams	2000 DL ₁₁₀
2000 DM ₁₁₀	15.1	0.15	20000317	265.14494	160.47676	109.05446	3.33611	0.0919778	3.1569864	25	1	45 days	0.60	Williams	2000 DM ₁₁₀
2000 DN ₁₁₀	13.8	0.15	20000226	189.45401	183.58817	150.82877	14.77082	0.1802705	2.5578078	52	4	1981–2000	0.51	M-v 2 Williams	39481 2000 DN ₁₁₀

2000 DO ₁₁₀	15.6	0.15	20000317	80.01191	59.91245	346.88012	14.60918	0.3232928	2.6622840	21	1	45 days	0.47		Williams	2000 DO ₁₁₀
2000 DR ₁₁₀	15.6	0.15	20000317	107.73482	54.50978	6.78023	22.02774	0.0558229	2.6278466	18	1	42 days	0.61		Williams	2000 DR ₁₁₀
2000 DS ₁₁₀	17.5	0.15	20000317	334.86415	145.31249	78.92204	1.24328	0.2901540	2.9395814	10	1	37 days	1.19		Williams	2000 DS ₁₁₀
2000 DT ₁₁₀	13.1	0.15	20000226	258.67968	200.52556	63.59219	16.18354	0.1184756	2.6327071	29	1	108 days	0.47	M-v 4	Williams	2000 DT ₁₁₀
2000 DV ₁₁₀	19.0	0.15	20000226	317.20455	220.13761	11.79143	4.39519	0.3882105	2.0896803	18	1	14 days	1.13		Williams	2000 DV ₁₁₀
2000 DH ₁₁₁	14.6	0.15	20000317	215.85512	111.73492	201.08198	0.63481	0.2006079	3.1891196	22	1	41 days	0.41		Williams	2000 DH ₁₁₁
2000 EA	15.0	0.15	20000226	18.67000	159.16488	345.51889	3.91131	0.0225459	2.6709621	76	1	44 days	0.68		Williams	2000 EA
2000 EC	15.5	0.15	20000226	344.43133	199.61574	345.07302	6.61062	0.0926627	2.2788260	79	1	57 days	0.70		Williams	2000 EC
2000 ED	13.5	0.15	20000226	345.37450	98.31903	91.66904	10.05634	0.1624204	2.4560398	44	1	98 days	0.47	M-v 3	Williams	2000 ED
2000 EE	13.3	0.15	20000226	353.87176	99.40193	78.21546	13.06664	0.1016284	2.7023001	36	1	65 days	0.51	M-v 4	Williams	2000 EE
2000 EF	13.1	0.15	20000317	296.61227	179.58097	78.09849	13.06146	0.1630825	2.6680524	25	1	38 days	0.74		Williams	2000 EF
2000 EG	15.3	0.15	20000226	297.98282	276.69525	324.62487	2.81667	0.1469042	2.2564005	53	2	1994–2000	0.60	M-v 5	Williams	39482 2000 EG
2000 EO	14.5	0.15	20000317	313.93284	64.35963	181.63073	1.66923	0.0393898	3.0252033	43	1	42 days	0.48		Williams	2000 EO
2000 ER	15.1	0.15	20000226	279.01683	241.24664	25.98330	4.18174	0.1486213	2.6455736	20	1	12 days	0.62		Williams	2000 ER
2000 EW	15.3	0.15	20000317	327.06733	219.23052	8.21659	7.66461	0.0963873	2.2208155	48	1	38 days	0.35		Williams	2000 EW
2000 EY	14.3	0.15	20000226	196.05082	348.42163	6.46415	3.08369	0.1735246	2.2618695	80	2	1998–2000	0.64	M-v 4	Williams	39482 2000 EY
2000 EQ ₁	16.1	0.15	20000226	24.48886	173.79453	313.03667	2.58881	0.0391502	2.8057613	25	1	26 days	0.56		Williams	2000 EQ ₁
2000 EX ₁	17.3	0.15	20000226	282.42496	58.71863	193.03461	0.93196	0.1580039	2.3672367	20	1	54 days	0.61		Williams	2000 EX ₁
2000 EC ₂	16.6	0.15	20000226	109.42275	44.48982	350.79214	5.67006	0.1335513	2.1820893	37	1	29 days	0.63		Williams	2000 EC ₂
2000 EP ₂	15.5	0.15	20000226	103.94685	53.89923	351.68308	7.75119	0.1016793	2.2314481	31	1	11 days	0.58		Williams	2000 EP ₂
2000 EF ₃	16.4	0.15	20000226	340.49464	198.35302	349.43789	7.16753	0.1096612	2.3252657	28	1	35 days	0.37		Williams	2000 EF ₃
2000 EK ₃	14.7	0.15	20000206	270.32684	90.44795	176.34474	9.91390	0.1541177	2.4559602	42	1	32 days	0.82		Williams	2000 EK ₃
2000 EQ ₃	15.8	0.15	20000226	35.10344	338.60839	143.39210	3.55831	0.1064861	2.5715421	33	1	52 days	0.54		Williams	2000 EQ ₃
2000 EV ₃	15.3	0.15	20000317	33.96989	203.77400	287.78929	0.72462	0.0999914	2.7250051	32	1	34 days	0.59		Williams	2000 EV ₃
2000 EX ₃	14.4	0.15	20000317	255.34310	109.60294	209.87173	4.60241	0.0369414	2.7470879	21	1	37 days	0.48		Williams	2000 EX ₃
2000 EB ₄	17.6	0.15	20000226	37.96775	4.77327	101.73519	3.24891	0.1612282	2.3557825	10	1	22 days	0.23		Williams	2000 EB ₄
2000 EC ₄	14.7	0.15	20000317	340.79082	233.49334	350.84023	4.45444	0.2022860	3.0575167	36	1	40 days	0.43		Williams	2000 EC ₄
2000 EE ₄	15.2	0.15	20000317	259.20286	84.00000	221.64013	3.66566	0.1721232	2.2901905	22	1	37 days	0.36		Williams	2000 EE ₄
2000 EH ₄	14.3	0.15	20000226	8.05064	160.04844	343.91626	30.07656	0.1071798	2.5665022	74	1	96 days	0.50	M-v 3	Williams	2000 EH ₄
2000 ED ₅	15.4	0.15	20000206	340.06600	12.83972	161.78995	15.38507	0.0244971	2.6071964	23	1	34 days	0.81		Williams	2000 ED ₅
2000 EU ₅	15.9	0.15	20000317	132.39028	233.86945	163.76391	1.30484	0.1343680	2.1810233	15	1	34 days	0.46		Williams	2000 EU ₅
2000 EV ₅	14.2	0.15	20000317	24.83213	65.38389	80.62111	0.42252	0.1742106	3.1104469	69	1	43 days	0.46		Williams	2000 EV ₅
2000 EY ₅	15.0	0.15	20000317	190.02118	348.23571	4.83185	5.74431	0.0643753	2.7244049	25	1	35 days	0.39		Williams	2000 EY ₅
2000 EC ₆	16.7	0.15	20000317	24.34007	133.96956	15.22638	1.70771	0.1342582	2.3836012	24	1	35 days	0.50		Williams	2000 EC ₆
2000 ED ₆	15.0	0.15	20000226	326.14165	116.48945	107.60673	0.64199	0.2056706	2.4251895	87	3	1996–2000	0.58	M-v 3	Williams	39482 2000 ED ₆
2000 EW ₆	15.2	0.15	20000317	241.53683	300.99888	17.12864	5.72244	0.1777771	2.2227937	48	1	40 days	0.82		Williams	2000 EW ₆
2000 EY ₆	16.3	0.15	20000317	290.49361	251.86742	18.78190	5.27175	0.1553498	2.2880972	32	1	36 days	0.68		Williams	2000 EY ₆
2000 EZ ₆	14.3	0.15	20000317	17.38037	349.78385	170.15705	8.98920	0.1783558	3.0996861	55	1	40 days	0.52		Williams	2000 EZ ₆
2000 EA ₇	14.3	0.15	20000317	92.91612	47.65020	29.42883	4.61148	0.1420386	3.1877447	18	1	36 days	0.49		Williams	2000 EA ₇
2000 EP ₇	17.2	0.15	20000226	280.90432	87.92322	168.33827	2.08437	0.1192946	2.1813536	25	1	19 days	0.53		Williams	2000 EP ₇
2000 ES ₇	10.8	0.15	20000226	56.00715	31.44401	45.27359	2.97006	0.0429325	5.2339227	32	1	69 days	0.47	M-v 5	Williams	39630 2000 ES ₇
2000 EU ₇	15.7	0.15	20000226	245.56306	159.95018	130.35802	3.12265	0.1752557	2.2596432	29	1	16 days	0.55		Williams	2000 EU ₇
2000 EV ₇	15.3	0.15	20000317	226.89876	317.11526	4.16645	7.18958	0.1402695	2.2802140	54	1	43 days	0.56		Williams	2000 EV ₇
2000 EX ₇	14.5	0.15	20000317	40.91048	67.15821	47.24521	14.91800	0.1200866	3.1625564	21	1	35 days	0.73		Williams	2000 EX ₇
2000 EB ₈	14.7	0.15	20000317	39.80262	86.97251	53.25185	17.10037	0.0650679	3.1237661	12	1	35 days	0.51		Williams	2000 EB ₈
2000 EG ₈	16.8	0.15	20000206	43.82826	233.39720	211.35696	0.84645	0.1530528	2.4206905	18	1	26 days	0.65		Williams	2000 EG ₈
2000 EK ₈	17.2	0.15	20000206	346.13154	160.28611	358.80557	1.16551	0.1189741	2.3556610	18	1	35 days	0.40		Williams	2000 EK ₈
2000 EU ₈	13.8	0.15	20000226	143.72728	209.38365	158.28881	12.11718	0.0212783	3.0609541	17	1	8 days	0.48		Williams	2000 EU ₈
2000 EX ₈	15.7	0.15	20000226	336.70217	36.57941	150.20802	4.85493	0.1735051	2.5788186	22	1	15 days	0.40		Williams	2000 EX ₈
2000 EC ₉	16.9	0.15	20000317	74.59479	77.01732	358.82781	1.80725	0.0975624	2.3829959	25	1	34 days	0.89		Williams	2000 EC ₉
2000 EK ₉	14.1	0.15	20000226	265.62163	159.03256	110.45535	2.60839	0.1619531	3.1687947	31	1	30 days	0.83		Williams	2000 EK ₉
2000 EL ₉	13.9	0.15	20000226	285.61864	261.27662	345.50617	13.14657	0.1332294	2.5809873	52	2	1993–2000	0.67	M-v 4	Williams	39483 2000 EL ₉
2000 EW ₉	13.9	0.15	20000317	354.66272	137.11212	44.61110	23.98861	0.2743320	3.1142281	33	1	30 days	0.55		Williams	2000 EW ₉

2000 EB ₁₀	17.4	0.15	20000317	2.79262	342.51026	186.14103	2.36640	0.1196181	2.4050831	27	1	38 days	0.54		Williams	2000 EB ₁₀
2000 ED ₁₀	15.0	0.15	20000317	10.13705	241.41880	279.48967	1.18334	0.0631644	2.5979979	16	1	33 days	0.42		Williams	2000 ED ₁₀
2000 EF ₁₀	15.0	0.15	20000317	136.13920	214.14450	174.70274	9.14330	0.0949014	3.0036516	18	1	33 days	0.41		Williams	2000 EF ₁₀
2000 EJ ₁₀	16.8	0.15	20000317	4.49625	177.29177	349.65996	3.54357	0.1703762	2.3753913	51	1	39 days	0.60		Williams	2000 EJ ₁₀
2000 EK ₁₀	15.4	0.15	20000317	331.19404	215.24806	353.44935	13.10919	0.1046909	2.5873039	47	1	42 days	0.69		Williams	2000 EK ₁₀
2000 EN ₁₀	15.5	0.15	20000317	298.75216	249.10680	353.67526	6.46013	0.0798386	2.4138659	36	1	35 days	0.61		Williams	2000 EN ₁₀
2000 EP ₁₀	14.4	0.15	20000226	359.46122	13.72802	155.63025	1.95832	0.0105147	2.8016440	38	2	1998–2000	0.56	M-v 5	Williams	39483 2000 EP ₁₀
2000 ES ₁₀	15.0	0.15	20000226	302.53241	97.87120	132.08942	9.81994	0.2046011	2.6851868	23	1	12 days	0.95		Williams	2000 ES ₁₀
2000 EU ₁₀	16.2	0.15	20000226	62.68782	305.26815	130.19615	9.48299	0.1035828	2.5778235	21	1	13 days	0.93		Williams	2000 EU ₁₀
2000 EA ₁₁	14.9	0.15	20000226	150.23166	232.17224	130.03557	6.82434	0.1101555	2.3541001	27	1	23 days	0.55		Williams	2000 EA ₁₁
2000 EE ₁₁	14.0	0.15	20000226	219.64081	298.83722	5.34107	9.44818	0.0884672	3.0931084	34	1	52 days	0.55		Williams	2000 EE ₁₁
2000 EK ₁₁	16.3	0.15	20000226	162.18861	350.93229	3.13821	3.50217	0.0848155	2.3197344	16	1	8 days	0.61		Williams	2000 EK ₁₁
2000 EL ₁₁	14.2	0.15	20000226	84.18529	349.19378	42.14755	7.58273	0.2846851	2.5495691	37	3	1990–2000	0.73	M-v 4	Williams	39483 2000 EL ₁₁
2000 EN ₁₁	13.9	0.15	20000226	333.02603	53.33826	134.92426	27.63617	0.1627319	3.1956125	32	1	68 days	0.66	M-v 4	Williams	2000 EN ₁₁
2000 ET ₁₁	14.3	0.15	20000226	178.32946	324.18739	5.26406	13.35713	0.0431561	2.5098553	36	2	1998–2000	0.62	M-v 4	Williams	39483 2000 ET ₁₁
2000 EX ₁₁	15.1	0.15	20000226	265.02171	163.21430	98.80414	8.78156	0.1496476	2.2573409	23	1	7 days	0.82	E	Williams	2000 EX ₁₁
2000 EY ₁₁	13.8	0.15	20000226	205.83281	205.55253	99.25307	11.18360	0.0340132	3.0695579	24	1	8 days	0.58	E	Williams	2000 EY ₁₁
2000 EZ ₁₁	14.1	0.15	20000226	259.51848	183.59218	84.35251	9.12373	0.1719817	2.8578977	15	1	5 days	0.53	E	Williams	2000 EZ ₁₁
2000 EC ₁₂	15.0	0.15	20000206	33.43749	64.79184	42.32000	4.62104	0.0587179	2.8001633	25	1	34 days	0.50		Williams	2000 EC ₁₂
2000 EN ₁₂	15.7	0.15	20000317	266.76373	170.80049	103.31607	8.72876	0.1955419	2.2221875	20	1	31 days	0.52		Williams	2000 EN ₁₂
2000 EP ₁₂	14.0	0.15	20000226	275.71562	213.66858	34.94711	9.63386	0.0984171	3.0605169	31	1	59 days	0.46		Williams	2000 EP ₁₂
2000 EQ ₁₂	14.4	0.15	20000226	12.19080	116.49189	23.06757	10.09768	0.0698400	2.5490022	43	2	1998–2000	0.67	M-v 4	Williams	39484 2000 EQ ₁₂
2000 ET ₁₂	12.8	0.15	20000226	327.18045	135.59640	56.58309	10.58985	0.0451946	3.2789786	25	1	8 days	0.63		Williams	2000 ET ₁₂
2000 EU ₁₂	14.7	0.15	20000226	97.35598	350.47238	51.19108	9.92902	0.1652955	2.3866263	23	1	59 days	0.53		Williams	2000 EU ₁₂
2000 EC ₁₃	14.9	0.15	20000226	333.00731	67.46702	120.58245	15.36974	0.0621380	2.5645952	38	1	86 days	0.64	M-v 4	Williams	2000 EC ₁₃
2000 EE ₁₃	13.8	0.15	20000226	329.76827	77.19508	130.21553	20.72395	0.2405271	3.1860531	34	1	83 days	0.48	M-v 4	Williams	2000 EE ₁₃
2000 EH ₁₃	15.8	0.15	20000317	290.52975	76.26675	176.18643	6.66068	0.2360176	2.9026916	27	1	36 days	0.43		Williams	2000 EH ₁₃
2000 EJ ₁₃	15.4	0.15	20000206	20.54665	25.12101	89.07821	4.96758	0.0519709	2.7845517	39	1	37 days	0.47		Williams	2000 EJ ₁₃
2000 EO ₁₃	16.3	0.15	20000226	337.26689	185.48415	3.85255	5.00171	0.2121668	2.6059702	42	1	52 days	0.69		Williams	2000 EO ₁₃
2000 EQ ₁₃	14.7	0.15	20000226	160.50228	220.54415	133.27551	6.49453	0.0898090	2.7462483	17	1	16 days	0.35		Williams	2000 EQ ₁₃
2000 EV ₁₃	14.4	0.15	20000226	290.56691	229.59717	0.06139	7.47039	0.0223388	2.7019653	33	2	1993–2000	0.77	M-v 5	Williams	39484 2000 EV ₁₃
2000 EW ₁₃	16.2	0.15	20000317	74.87703	308.52746	125.31671	4.49390	0.1317558	2.2187460	18	1	30 days	0.47		Williams	2000 EW ₁₃
2000 EE ₁₄	16.8	0.15	20000226	161.53426	197.78033	155.82440	26.47612	0.5329189	0.6618401	116	1	36 days	0.49	M-v 7	Williams	2000 EE ₁₄
2000 EJ ₁₄	13.0	0.15	20000317	201.16199	335.01777	11.24127	1.75097	0.0917747	2.9130074	69	1	39 days	0.60		Williams	2000 EJ ₁₄
2000 EK ₁₄	15.5	0.15	20000317	4.15741	10.16619	163.16058	3.87546	0.1306464	2.7413040	45	1	43 days	0.87		Williams	2000 EK ₁₄
2000 EO ₁₄	16.3	0.15	20000317	38.68191	73.75163	51.11671	1.50703	0.1677131	2.3064695	39	1	43 days	0.61		Williams	2000 EO ₁₄
2000 EP ₁₄	16.1	0.15	20000317	309.29982	241.38740	6.26217	7.87711	0.1869037	2.3240918	58	1	44 days	0.62		Williams	2000 EP ₁₄
2000 EQ ₁₄	15.1	0.15	20000226	66.67756	283.11913	163.20732	1.75617	0.1503239	2.3040499	41	2	1997–2000	0.71	M-v 5	Williams	39484 2000 EQ ₁₄
2000 ES ₁₄	15.0	0.15	20000317	322.81583	174.84970	42.40561	12.63522	0.2209143	2.6377735	17	1	30 days	0.50		Williams	2000 ES ₁₄
2000 EY ₁₄	15.1	0.15	20000226	10.18594	75.88748	65.49659	22.01579	0.2928168	2.2949435	49	1	40 days	0.52		Williams	2000 EY ₁₄
2000 EA ₁₅	14.2	0.15	20000317	271.49582	109.59363	174.71342	9.05197	0.0789762	2.9646895	48	1	38 days	0.79		Williams	2000 EA ₁₅
2000 EC ₁₅	15.5	0.15	20000317	274.75117	306.72943	355.31009	10.19745	0.1932324	2.2528778	24	1	33 days	0.55		Williams	2000 EC ₁₅
2000 EE ₁₅	16.2	0.15	20000317	312.00097	63.46478	193.58390	12.51361	0.2232802	2.6550377	32	1	32 days	0.39		Williams	2000 EE ₁₅
2000 EF ₁₅	15.8	0.15	20000226	316.12171	75.86393	161.18638	11.85431	0.1973722	2.7913277	15	1	23 days	0.87		Williams	2000 EF ₁₅
2000 EH ₁₅	16.4	0.15	20000317	29.80667	321.87666	174.34938	5.33091	0.1635812	2.6073661	38	1	33 days	0.59		Williams	2000 EH ₁₅
2000 EJ ₁₅	15.9	0.15	20000317	299.37464	71.20798	176.10859	8.73722	0.0879133	2.7678280	32	1	33 days	0.76		Williams	2000 EJ ₁₅
2000 EN ₁₅	16.7	0.15	20000317	180.14992	202.43248	143.03581	23.55446	0.0691730	1.9278202	20	1	30 days	0.48		Williams	2000 EN ₁₅
2000 EO ₁₅	14.9	0.15	20000317	241.90303	228.28487	68.97160	7.07371	0.1463805	2.3918833	32	1	32 days	0.35		Nakano	2000 EO ₁₅
2000 EQ ₁₅	18.0	0.15	20000226	323.90737	26.01792	187.51052	0.96000	0.1758492	2.2554563	34	1	8 days	0.93		Williams	2000 EQ ₁₅
2000 EK ₁₆	15.6	0.15	20000317	236.13888	351.35712	313.60084	4.42763	0.1618971	2.2376267	14	1	31 days	0.61		Williams	2000 EK ₁₆
2000 EL ₁₆	13.5	0.15	20000226	111.76267	67.02575	335.75669	8.59859	0.1127433	3.0824341	48	2	1998–2000	0.62	M-v 5	Williams	39484 2000 EL ₁₆
2000 EN ₁₆	14.2	0.15	20000226	226.15811	327.86624	339.47800	7.60643	0.0859571	2.4302423	48	1	67 days	0.51	M-v 5	Williams	2000 EN ₁₆
2000 EO ₁₆	13.7	0.15	20000317	99.14462	240.63190	182.49869	9.82065	0.0784407	2.9677519	17	1	33 days	0.48		Williams	2000 EO ₁₆

2000 EV ₁₆	13.4	0.15	20000317	203.20571	154.25657	181.49418	10.47487	0.1159688	2.9463456	22	1	34 days	0.54		Williams		2000 EV ₁₆	
2000 EW ₁₆	16.1	0.15	20000317	314.42407	284.79496	311.75117	1.65615	0.1669873	2.3438166	66	1	41 days	0.60		Williams		2000 EW ₁₆	
2000 EX ₁₆	13.5	0.15	20000226	348.95385	197.91066	345.91792	8.23736	0.0791616	3.1070137	66	2	1998–2000	0.55	M-v	3	Williams	39484	2000 EX ₁₆
2000 EC ₁₇	17.1	0.15	20000317	358.05742	201.59439	336.52958	2.08101	0.1440260	2.3266624	30	1	33 days	0.65		Williams		2000 EC ₁₇	
2000 ED ₁₇	14.6	0.15	20000317	278.09890	66.82982	195.34762	1.51131	0.0429560	2.7519087	34	1	39 days	0.47		Williams		2000 ED ₁₇	
2000 EF ₁₇	14.8	0.15	20000317	339.49050	25.82163	173.27989	6.05880	0.0677047	2.3737574	51	1	44 days	0.41		Williams		2000 EF ₁₇	
2000 EH ₁₇	15.7	0.15	20000226	36.10092	287.87018	192.95951	4.29144	0.1473850	2.4717151	33	2	1998–2000	0.57	M-v	4	Williams	39485	2000 EH ₁₇
2000 EJ ₁₇	15.7	0.15	20000226	301.35987	340.37985	266.97306	1.83721	0.1756344	2.4005851	38	3	1989–2000	0.60	M-v	3	Williams	39485	2000 EJ ₁₇
2000 EL ₁₇	15.4	0.15	20000317	3.34072	351.38454	178.90201	6.59275	0.1984962	3.0933267	34	1	39 days	0.48		Williams		2000 EL ₁₇	
2000 EN ₁₇	14.9	0.15	20000226	303.35276	97.87070	125.78334	13.24803	0.1505240	2.6382605	28	1	12 days	0.54		Williams		2000 EN ₁₇	
2000 EP ₁₇	14.8	0.15	20000226	15.90552	114.13499	18.59887	7.99299	0.0763789	2.3879022	52	2	1998–2000	0.53	M-v	3	Williams	39485	2000 EP ₁₇
2000 ER ₁₇	12.7	0.15	20000226	211.84012	301.56637	3.81323	15.27627	0.0957539	2.5262484	39	1	63 days	0.40	M-v	4	Williams		2000 ER ₁₇
2000 EU ₁₇	14.4	0.15	20000226	354.42136	37.86248	126.67554	13.30044	0.0995977	2.6224655	23	1	24 days	0.48		Williams		2000 EU ₁₇	
2000 EV ₁₇	16.2	0.15	20000226	41.61084	30.87137	79.99555	7.48657	0.0625481	2.3450871	25	1	56 days	0.45		Williams		2000 EV ₁₇	
2000 EW ₁₇	13.4	0.15	20000226	352.99563	151.02135	14.53156	13.41874	0.1177120	2.6641480	29	1	61 days	0.25	M-v	4	Williams		2000 EW ₁₇
2000 EX ₁₇	15.7	0.15	20000226	356.22553	108.79890	54.08922	6.55354	0.1875685	2.3418074	31	1	61 days	0.43	M-v	4	Williams		2000 EX ₁₇
2000 EY ₁₇	14.0	0.15	20000226	248.69408	265.19047	13.85994	14.93300	0.1078580	2.6779699	30	2	1993–2000	0.56	M-v	4	Williams	39485	2000 EY ₁₇
2000 EZ ₁₇	15.0	0.15	20000226	246.87257	161.10917	122.37037	14.61813	0.1239058	2.5247706	21	1	8 days	0.65		Williams		2000 EZ ₁₇	
2000 EA ₁₈	14.1	0.15	20000226	341.09492	67.35656	112.91831	12.73621	0.0877053	3.0400100	22	1	8 days	0.40		Williams		2000 EA ₁₈	
2000 EB ₁₈	14.8	0.15	20000226	74.68260	71.26958	3.79277	21.72976	0.0517534	2.6527144	24	1	8 days	0.63		Williams		2000 EB ₁₈	
2000 EC ₁₈	15.2	0.15	20000226	302.22700	173.25233	48.39791	7.54464	0.0590633	2.3316424	24	1	60 days	0.55	M-v	5	Williams		2000 EC ₁₈
2000 ED ₁₈	13.1	0.15	20000226	166.31688	243.75028	115.22775	15.07447	0.0967113	2.8069124	39	1	66 days	0.47	M-v	4	Williams		2000 ED ₁₈
2000 EE ₁₈	14.0	0.15	20000226	17.55117	100.66862	42.25482	12.86445	0.1065446	2.6228096	43	2	1998–2000	0.55	M-v	3	Williams	39486	2000 EE ₁₈
2000 EF ₁₈	13.8	0.15	20000226	84.56911	290.19240	115.17501	14.86692	0.2465240	3.1682524	18	1	8 days	0.56		Williams		2000 EF ₁₈	
2000 EG ₁₈	15.3	0.15	20000226	15.66381	88.49465	48.28868	9.56073	0.1145379	2.7461013	19	1	8 days	0.57		Williams		2000 EG ₁₈	
2000 EL ₁₈	14.4	0.15	20000226	331.44727	102.91085	79.49586	3.16824	0.0128682	2.8795040	51	3	1971–2000	0.74	M-v	3	Williams	39486	2000 EL ₁₈
2000 ER ₁₈	15.0	0.15	20000206	31.61524	13.34535	96.56999	3.33193	0.1250751	3.2195324	32	1	35 days	0.52		Williams		2000 ER ₁₈	
2000 EC ₁₉	14.9	0.15	20000226	2.90566	85.71989	70.75053	2.25353	0.1276302	2.4380411	48	1	120 days	0.40	M-v	3	Williams		2000 EC ₁₉
2000 EG ₁₉	15.6	0.15	20000226	257.14949	184.80027	96.19396	2.74223	0.1636619	2.1882074	34	4	1971–2000	0.58	M-v	2	Williams	39486	2000 EG ₁₉
2000 EK ₁₉	16.2	0.15	20000226	45.30144	354.57303	105.18705	2.93216	0.1664641	2.4038028	36	1	59 days	0.57		Williams		2000 EK ₁₉	
2000 EM ₁₉	15.6	0.15	20000226	83.06297	332.52949	98.33584	2.56705	0.0614552	2.1641040	42	1	67 days	0.47	M-v	4	Williams		2000 EM ₁₉
2000 EN ₁₉	14.2	0.15	20000226	128.77806	281.08891	101.52981	4.93410	0.1213756	2.6887174	54	3	1997–2000	0.56	M-v	3	Williams	39486	2000 EN ₁₉
2000 EO ₁₉	14.3	0.15	20000317	317.38791	206.86941	24.45872	17.37592	0.1695004	3.1380615	41	1	34 days	0.63		Williams		2000 EO ₁₉	
2000 EP ₁₉	14.5	0.15	20000226	89.04869	322.76644	111.25625	8.08516	0.0749145	2.2886577	31	1	94 days	0.47	M-v	4	Williams		2000 EP ₁₉
2000 ET ₁₉	16.0	0.15	20000317	12.34973	67.42738	93.86486	6.61252	0.1230115	2.3128922	29	1	36 days	0.52		Williams		2000 ET ₁₉	
2000 EU ₁₉	13.6	0.15	20000226	133.89794	333.83975	54.46936	9.86975	0.1625323	2.7478625	52	3	1993–2000	0.58	M-v	3	Williams	39487	2000 EU ₁₉
2000 EX ₁₉	15.4	0.15	20000317	292.37127	191.99599	86.29736	6.26761	0.2083656	2.2766685	32	1	37 days	0.59		Williams		2000 EX ₁₉	
2000 EY ₁₉	13.8	0.15	20000317	48.28700	336.21782	159.60441	15.63316	0.0742520	3.2415500	37	1	37 days	0.52		Williams		2000 EY ₁₉	
2000 EB ₂₀	15.2	0.15	20000226	306.79569	85.43520	177.39191	23.11759	0.2939918	2.2494821	39	1	66 days	0.57	M-v	4	Williams		2000 EB ₂₀
2000 EC ₂₀	15.3	0.15	20000226	303.32583	67.51065	191.27123	2.04699	0.1839856	2.3491815	86	3	1994–2000	0.53	M-v	2	Williams	39487	2000 EC ₂₀
2000 ED ₂₀	14.8	0.15	20000226	17.25197	329.40338	185.92455	24.29413	0.1982276	2.3441897	43	1	76 days	0.55	M-v	4	Williams		2000 ED ₂₀
2000 EL ₂₀	14.4	0.15	20000226	15.75523	285.12875	208.11777	11.24674	0.1340735	2.6885533	56	4	1976–2000	0.76	M-v	2	Williams	39487	2000 EL ₂₀
2000 EM ₂₀	14.4	0.15	20000226	83.44449	143.31032	272.00805	12.00053	0.1506953	2.7196310	29	1	63 days	0.55	M-v	5	Williams		2000 EM ₂₀
2000 EO ₂₀	12.8	0.15	20000226	290.83020	25.37700	206.79551	15.31174	0.0822072	3.1876106	42	3	1997–2000	0.60	M-v	3	Williams	39487	2000 EO ₂₀
2000 EP ₂₀	14.0	0.15	20000226	7.61078	311.51940	193.59884	23.81286	0.0746634	3.1248402	16	1	6 days	0.49		E Williams		2000 EP ₂₀	
2000 EQ ₂₀	12.7	0.15	20000226	336.04370	323.64479	224.30817	14.23927	0.1305888	2.9485432	39	1	123 days	0.52	M-v	4	Williams		2000 EQ ₂₀
2000 ET ₂₀	14.4	0.15	20000226	18.60195	201.06696	295.12306	11.45148	0.0990228	2.7230277	43	1	100 days	0.72	M-v	4	Williams		2000 ET ₂₀
2000 EV ₂₀	14.7	0.15	20000226	237.09459	46.29917	242.84258	8.93458	0.0778843	2.7460640	30	1	57 days	0.55		Williams		2000 EV ₂₀	
2000 EX ₂₀	14.7	0.15	20000226	213.80763	14.17365	293.51980	12.65166	0.0196727	3.0161132	23	1	56 days	0.65		Williams		2000 EX ₂₀	
2000 EY ₂₀	14.6	0.15	20000317	251.92364	26.55169	261.42297	8.35603	0.1674357	2.7629552	18	1	32 days	0.73		Williams		2000 EY ₂₀	
2000 EB ₂₁	15.6	0.15	20000226	299.46588	330.94189	258.80165	6.35010	0.0859706	2.2367374	32	1	57 days	0.59		Williams		2000 EB ₂₁	
2000 ED ₂₁	14.2	0.15	20000226	94.04182	199.60463	211.28790	12.14412	0.1474300	2.9978552	42	1	57 days	0.69		Williams		2000 ED ₂₁	
2000 EE ₂₁	15.6	0.15	20000226	207.03554	37.29541	284.11155	9.33713	0.1430256	2.2079438	24	1	57 days	0.56		Williams		2000 EE ₂₁	

2000 EL ₂₁	14.6	0.15	20000317	205.72675	105.77430	219.25204	14.11668	0.1035533	2.6566951	16	1	32 days	0.72		Williams	2000 EL ₂₁
2000 EM ₂₁	14.8	0.15	20000317	15.22917	158.13542	27.11780	13.41015	0.1682605	2.4012399	29	1	36 days	0.34		Williams	2000 EM ₂₁
2000 EN ₂₁	15.7	0.15	20000226	39.99794	317.32086	144.40958	24.53034	0.1947857	2.3697921	18	1	8 days	0.45		Williams	2000 EN ₂₁
2000 EQ ₂₁	14.9	0.15	20000317	15.32261	16.65914	148.16722	30.88060	0.1328988	2.6688576	17	1	30 days	0.63		Williams	2000 EQ ₂₁
2000 ET ₂₁	14.4	0.15	20000226	55.25883	83.69409	0.38128	26.62461	0.2086266	2.5815703	49	3	1996–2000	0.51	M-v 2	Williams	2000 ET ₂₁
2000 EW ₂₁	16.1	0.15	20000317	299.91089	229.24134	5.35712	22.32733	0.0390597	1.9839445	20	1	29 days	0.50		Williams	2000 EW ₂₁
2000 EY ₂₁	16.2	0.15	20000317	215.60589	168.97492	157.03821	23.09512	0.0717186	1.9205766	16	1	34 days	0.39		Williams	2000 EY ₂₁
2000 EZ ₂₁	14.9	0.15	20000317	172.75529	348.44666	11.77460	21.25821	0.0822053	1.9560731	32	1	34 days	0.43		Williams	2000 EZ ₂₁
2000 EA ₂₂	15.3	0.15	20000317	316.12687	87.18075	152.08693	23.50490	0.1957994	2.2631977	21	1	24 days	0.61		Williams	2000 EA ₂₂
2000 EB ₂₂	14.5	0.15	20000317	181.76952	328.12643	28.51823	21.14659	0.0819395	1.9289729	26	1	39 days	0.48		Williams	2000 EB ₂₂
2000 ES ₂₂	14.7	0.15	20000206	92.29785	257.63091	146.06583	16.25884	0.0379838	3.1518613	16	1	35 days	0.42		Williams	2000 ES ₂₂
2000 EC ₂₃	16.0	0.15	20000226	276.27511	301.94791	338.53333	3.04836	0.2831782	2.5868533	35	1	18 days	0.45		Williams	2000 EC ₂₃
2000 ET ₂₃	15.6	0.15	20000317	279.18483	84.09661	196.70194	1.73946	0.1581069	2.4598189	41	1	30 days	0.53		Williams	2000 ET ₂₃
2000 EV ₂₃	14.7	0.15	20000317	264.35390	286.65403	357.71397	7.86745	0.0540481	2.8000273	57	1	43 days	0.47		Williams	2000 EV ₂₃
2000 EX ₂₃	17.7	0.15	20000317	23.99310	160.65205	348.91244	2.27699	0.1418200	2.3223101	19	1	28 days	0.44		Williams	2000 EX ₂₃
2000 EY ₂₃	15.8	0.15	20000226	24.26015	308.86104	185.29326	3.29575	0.2490188	2.6163555	64	3	1996–2000	0.65	M-v 3	Williams	2000 EY ₂₃
2000 EA ₂₄	16.5	0.15	20000317	342.47019	210.02068	351.31867	3.68897	0.0548103	2.2657988	39	1	30 days	0.61		Williams	2000 EA ₂₄
2000 EB ₂₄	19.1	0.15	20000317	20.14796	159.77464	350.93532	2.13226	0.2033631	2.3035737	9	1	28 days	0.63		Williams	2000 EB ₂₄
2000 EC ₂₄	14.3	0.15	20000317	287.07940	273.94013	355.16230	3.65428	0.1123918	3.1006262	42	1	31 days	0.56		Williams	2000 EC ₂₄
2000 EF ₂₄	13.9	0.15	20000317	219.72019	139.32644	188.19500	2.12607	0.0521115	2.9176898	58	1	33 days	0.60		Williams	2000 EF ₂₄
2000 EN ₂₄	15.9	0.15	20000317	93.73974	76.51421	359.05918	4.57135	0.1206732	2.3735222	28	1	29 days	0.57		Williams	2000 EN ₂₄
2000 EQ ₂₄	14.7	0.15	20000317	161.43307	14.35611	1.56932	2.97823	0.2463071	2.6923340	13	1	28 days	0.42		Williams	2000 EQ ₂₄
2000 ER ₂₄	16.0	0.15	20000317	53.57546	95.16742	359.45243	9.72282	0.3098756	2.6252825	28	1	31 days	0.63		Williams	2000 ER ₂₄
2000 ET ₂₄	14.7	0.15	20000317	79.37699	77.88602	2.64182	15.70736	0.2123942	3.1619927	27	1	29 days	0.65		Williams	2000 ET ₂₄
2000 EV ₂₄	15.6	0.15	20000317	185.76356	175.41883	184.57164	4.24549	0.1656558	2.5828243	11	1	28 days	0.25		Williams	2000 EV ₂₄
2000 EW ₂₄	13.7	0.15	20000317	21.14735	339.74482	182.66870	7.87756	0.0192742	3.1027797	52	1	35 days	0.82		Williams	2000 EW ₂₄
2000 EX ₂₄	15.3	0.15	20000317	283.80101	102.26511	179.68401	0.47234	0.1968548	2.3634059	46	1	32 days	0.58		Williams	2000 EX ₂₄
2000 EZ ₂₄	14.9	0.15	20000317	277.35550	268.65182	3.87364	7.24155	0.0495262	2.9779063	29	1	30 days	0.52		Williams	2000 EZ ₂₄
2000 EJ ₂₅	15.8	0.15	20000317	196.50469	182.20068	169.54853	0.93154	0.1507858	2.2880972	33	1	33 days	0.49		Williams	2000 EJ ₂₅
2000 EM ₂₅	17.0	0.15	20000317	292.45436	268.67271	4.07860	4.75341	0.1887866	2.4383233	11	1	28 days	0.19		Williams	2000 EM ₂₅
2000 EP ₂₅	15.9	0.15	20000226	62.74473	87.36707	10.66129	1.97036	0.1561268	2.4035046	38	2	1998–2000	0.66	M-v 5	Williams	2000 EP ₂₅
2000 ES ₂₅	15.6	0.15	20000226	30.12177	134.01647	3.80427	7.05481	0.1309424	2.3709968	60	1	63 days	0.59	M-v 5	Williams	2000 ES ₂₅
2000 EU ₂₅	14.8	0.15	20000317	300.39419	247.89797	14.89959	2.04254	0.1768768	2.4462502	83	1	40 days	0.68		Williams	2000 EU ₂₅
2000 EZ ₂₅	14.6	0.15	20000317	271.57041	274.73132	8.01198	7.27078	0.0847786	2.4767406	67	1	33 days	0.52		Williams	2000 EZ ₂₅
2000 EB ₂₆	13.9	0.15	20000317	115.48861	23.23557	40.27947	1.43506	0.0769544	3.2626157	43	1	33 days	0.73		Williams	2000 EB ₂₆
2000 ED ₂₆	17.0	0.15	20000317	46.57193	91.42483	21.44912	2.40777	0.2505198	2.7923467	11	1	28 days	0.65		Williams	2000 ED ₂₆
2000 EH ₂₆	21.2	0.15	20000226	329.69243	18.63866	215.69789	0.39397	0.4780381	1.8517328	36	1	36 days	0.41	M-v 6	Williams	2000 EH ₂₆
2000 EJ ₂₆	19.1	0.15	20000226	291.70843	285.56213	10.80552	9.23584	0.6148143	1.3828589	31	1	30 days	0.53	M-v 7	Williams	2000 EJ ₂₆
2000 EP ₂₆	16.3	0.15	20000317	11.56570	167.92177	357.98085	22.51544	0.1253452	2.2647410	28	1	40 days	0.52		Williams	2000 EP ₂₆
2000 EQ ₂₆	16.4	0.15	20000317	73.96374	98.81449	2.34540	19.51850	0.0784241	1.9535944	30	1	38 days	0.51		Williams	2000 EQ ₂₆
2000 ES ₂₆	17.1	0.15	20000317	55.05977	295.53559	179.78113	23.45015	0.1042879	1.9076669	31	1	30 days	0.52		Williams	2000 ES ₂₆
2000 EV ₂₆	14.6	0.15	20000226	80.72747	265.63244	184.51842	22.97412	0.0738562	1.9171093	57	4	1992–2000	0.59	M-v 1	Williams	2000 EV ₂₆
2000 EY ₂₆	16.6	0.15	20000317	202.73025	211.98577	129.25060	3.10425	0.1857889	2.3689838	14	1	28 days	1.32		Williams	2000 EY ₂₆
2000 EB ₂₈	14.9	0.15	20000226	300.56936	160.67032	72.68655	5.70588	0.1627301	2.3197816	49	1	61 days	0.55	M-v 5	Williams	2000 EB ₂₈
2000 ED ₂₈	15.2	0.15	20000226	179.72998	267.64091	69.66967	7.47193	0.1436418	2.3238225	25	2	1998–2000	0.71	M-v 6	Williams	2000 ED ₂₈
2000 EH ₂₈	15.3	0.15	20000226	308.31132	121.41128	112.53084	12.25643	0.2256026	2.5983656	23	1	54 days	0.45		Williams	2000 EH ₂₈
2000 EO ₂₈	14.5	0.15	20000226	72.97161	13.34171	73.71542	10.26481	0.0203961	3.2232436	18	1	22 days	0.65		Williams	2000 EO ₂₈
2000 EX ₂₈	14.2	0.15	20000226	345.34121	70.67694	108.04117	15.33618	0.0871960	2.6420369	23	1	54 days	0.37		Williams	2000 EX ₂₈
2000 EC ₂₉	13.2	0.15	20000317	94.70057	23.97169	40.38731	17.36304	0.1139089	3.1430303	28	1	35 days	0.48		Williams	2000 EC ₂₉
2000 ED ₂₉	13.2	0.15	20000226	296.05236	145.43215	107.11393	14.28572	0.1640824	3.1689948	34	1	65 days	0.44	M-v 4	Williams	2000 ED ₂₉
2000 EE ₂₉	14.2	0.15	20000317	70.45661	339.03064	110.24083	13.47987	0.1320720	2.5520519	25	1	35 days	0.43		Williams	2000 EE ₂₉
2000 EF ₂₉	13.1	0.15	20000226	292.51892	154.83441	110.96254	14.90886	0.2384405	3.0690220	32	1	65 days	0.47	M-v 4	Williams	2000 EF ₂₉
2000 EG ₂₉	16.6	0.15	20000206	50.00386	329.53967	100.79026	5.16423	0.1673116	2.2751419	20	1	35 days	0.49		Williams	2000 EG ₂₉

2000 EJ ₂₉	15.6	0.15	20000206	253.31106	119.11756	140.23239	6.67267	0.1616228	2.2562587	20	1	39 days	0.70		Williams	2000 EJ ₂₉
2000 EN ₂₉	14.9	0.15	20000226	87.12770	290.50905	141.88071	17.52476	0.0565006	3.0557570	22	1	21 days	0.55		Williams	2000 EN ₂₉
2000 EO ₂₉	14.6	0.15	20000317	13.50063	21.51523	133.20200	11.84797	0.0641292	2.6371434	32	1	34 days	0.39		Williams	2000 EO ₂₉
2000 ES ₂₉	15.2	0.15	20000206	297.12318	176.93638	44.53312	3.68306	0.1006905	2.6370067	40	1	38 days	0.72		Williams	2000 ES ₂₉
2000 EA ₃₀	14.9	0.15	20000226	306.28659	83.95085	147.96419	23.27666	0.2087009	3.1842096	31	1	52 days	0.46		Williams	2000 EA ₃₀
2000 EC ₃₀	15.2	0.15	20000226	288.89683	119.70132	135.27640	12.95299	0.2263627	2.6020282	35	1	52 days	0.42		Williams	2000 EC ₃₀
2000 ED ₃₀	15.2	0.15	20000226	115.10006	348.31119	41.75925	6.28750	0.1480462	2.1913210	23	1	59 days	0.50		Williams	2000 ED ₃₀
2000 EE ₃₀	15.0	0.15	20000226	45.58542	32.63318	72.75854	5.01691	0.0922707	2.2437935	44	2	1997–2000	0.56	M-v 4	Williams	39489 2000 EE ₃₀
2000 EF ₃₀	13.7	0.15	20000226	252.16585	225.82552	56.49322	7.79709	0.1359345	2.6136532	31	1	61 days	0.46	M-v 4	Williams	2000 EF ₃₀
2000 EG ₃₀	13.4	0.15	20000226	169.64021	250.84437	97.30166	8.47714	0.1846888	2.7509347	52	3	1992–2000	0.67	M-v 4	Williams	39489 2000 EG ₃₀
2000 EJ ₃₀	14.1	0.15	20000226	183.18608	219.53962	119.19862	10.95760	0.0704906	2.9531551	22	1	10 days	0.51		Williams	2000 EJ ₃₀
2000 EK ₃₀	14.9	0.15	20000226	204.52436	315.13760	8.32526	14.51692	0.1946956	2.5727728	29	1	53 days	0.66		Williams	2000 EK ₃₀
2000 ER ₃₀	14.8	0.15	20000226	286.18136	201.03758	44.63823	7.57199	0.0949419	2.3530062	40	2	1998–2000	0.47	M-v 4	Williams	39489 2000 ER ₃₀
2000 EV ₃₀	12.8	0.15	20000226	172.11673	298.36290	49.53209	10.03535	0.1014905	3.0015444	27	1	61 days	0.44	M-v 5	Williams	2000 EV ₃₀
2000 EC ₃₁	13.6	0.15	20000226	186.14464	225.56448	113.28837	10.52461	0.1482967	3.0334455	22	1	51 days	0.68		Williams	2000 EC ₃₁
2000 EF ₃₁	15.7	0.15	20000226	83.56496	2.34608	65.83889	7.17173	0.1055073	2.4274364	17	1	21 days	0.60		Williams	2000 EF ₃₁
2000 EK ₃₁	13.5	0.15	20000206	318.79492	188.98948	3.25390	10.48514	0.0112982	3.1839086	30	1	38 days	0.65		Williams	2000 EK ₃₁
2000 EV ₃₁	14.1	0.15	20000226	166.25320	10.01462	335.11142	8.25623	0.0536604	3.0342921	36	3	1997–2000	0.56	M-v 3	Williams	39489 2000 EV ₃₁
2000 EA ₃₂	16.1	0.15	20000226	48.21487	326.14203	139.27889	6.22611	0.0186571	2.2503608	16	1	7 days	0.53		Williams	2000 EA ₃₂
2000 EB ₃₂	17.1	0.15	20000317	282.12874	136.77603	119.77915	3.40860	0.1489770	2.1624372	15	1	30 days	0.49		Williams	2000 EB ₃₂
2000 EG ₃₂	15.0	0.15	20000226	226.14752	229.87424	73.17590	3.47823	0.2027327	2.4259550	25	1	30 days	0.57		Williams	2000 EG ₃₂
2000 EM ₃₂	15.0	0.15	20000317	315.19482	73.22767	141.60806	10.84595	0.0733958	3.0868656	27	1	32 days	0.49		Williams	2000 EM ₃₂
2000 EO ₃₂	15.8	0.15	20000226	67.14504	38.35758	32.25790	4.27223	0.1920214	2.5708210	32	1	52 days	0.41		Williams	2000 EO ₃₂
2000 EP ₃₂	16.3	0.15	20000226	327.05288	81.58993	120.22928	5.39196	0.1321987	2.7018913	18	1	7 days	0.58		Williams	2000 EP ₃₂
2000 EQ ₃₂	16.0	0.15	20000226	347.55109	173.88844	1.87981	10.88572	0.1460934	2.5777538	35	1	52 days	0.41		Williams	2000 EQ ₃₂
2000 EU ₃₂	16.0	0.15	20000317	287.25309	163.13020	95.69045	3.49072	0.1810909	2.3755254	27	1	32 days	0.48		Williams	2000 EU ₃₂
2000 EV ₃₂	15.6	0.15	20000317	219.94777	181.63252	132.76674	7.38882	0.1546178	2.3527487	18	1	29 days	0.56		Williams	2000 EV ₃₂
2000 EX ₃₂	14.1	0.15	20000226	222.57477	173.75738	133.05787	7.13108	0.1266161	2.2976106	35	1	60 days	0.44	M-v 5	Williams	2000 EX ₃₂
2000 EN ₃₃	15.8	0.15	20000226	324.72044	65.02893	139.61386	13.23017	0.0877684	2.7862786	26	1	24 days	0.66		Williams	2000 EN ₃₃
2000 EP ₃₃	14.3	0.15	20000226	228.61051	179.15450	132.67360	14.24671	0.1847917	2.6181937	19	1	21 days	0.45		Williams	2000 EP ₃₃
2000 ET ₃₃	15.0	0.15	20000226	48.73434	26.06583	79.11317	6.54706	0.1147777	2.2572915	30	1	67 days	0.38	M-v 4	Williams	2000 ET ₃₃
2000 EV ₃₃	14.6	0.15	20000317	348.35968	96.46160	87.87404	7.30824	0.0491474	2.4753445	25	1	34 days	0.54		Williams	2000 EV ₃₃
2000 EW ₃₃	16.0	0.15	20000226	342.66500	69.17911	121.26670	9.42022	0.1533794	2.4432549	29	1	22 days	0.58		Williams	2000 EW ₃₃
2000 EA ₃₄	14.2	0.15	20000317	259.99803	265.85546	28.76758	14.48664	0.1909015	2.5746717	30	1	34 days	0.56		Williams	2000 EA ₃₄
2000 EB ₃₄	14.2	0.15	20000226	100.95845	320.21329	97.55769	7.98351	0.1098818	2.3656880	50	2	1998–2000	0.55	M-v 3	Williams	39490 2000 EB ₃₄
2000 EC ₃₄	14.4	0.15	20000226	330.45688	89.75018	116.98527	12.13469	0.1331592	2.6198778	39	1	64 days	0.58	M-v 4	Williams	2000 EC ₃₄
2000 ED ₃₄	14.4	0.15	20000317	257.17589	193.62152	95.09902	10.85931	0.1149293	2.3662133	33	1	34 days	0.56		Williams	2000 ED ₃₄
2000 EF ₃₄	16.3	0.15	20000226	348.82201	43.52467	129.22444	4.62355	0.2103235	2.6642868	18	1	7 days	0.57	E	Williams	2000 EF ₃₄
2000 EH ₃₄	12.3	0.15	20000226	65.92919	31.65295	56.84526	15.47105	0.1853813	2.6708459	63	3	1996–2000	0.63	M-v 2	Williams	39490 2000 EH ₃₄
2000 EL ₃₄	14.6	0.15	20000226	271.73431	200.64330	60.22556	9.14877	0.0466642	2.4841612	20	1	21 days	0.76		Williams	2000 EL ₃₄
2000 EM ₃₄	12.6	0.15	20000317	225.10878	187.37557	129.33658	14.64441	0.1169611	2.7078311	25	1	34 days	0.73		Williams	2000 EM ₃₄
2000 EN ₃₄	13.8	0.15	20000317	47.70489	357.56769	123.00884	13.15256	0.0828356	2.6859056	21	1	34 days	0.75		Williams	2000 EN ₃₄
2000 EO ₃₄	14.5	0.15	20000317	320.60736	108.44925	125.02105	12.52780	0.2039847	2.5855530	21	1	30 days	0.71		Williams	2000 EO ₃₄
2000 ER ₃₄	13.1	0.15	20000317	299.87353	128.34152	133.67297	18.97841	0.1742273	3.1362026	28	1	34 days	0.84		Williams	2000 ER ₃₄
2000 EU ₃₄	13.3	0.15	20000226	135.61091	283.85827	102.84097	12.03380	0.1312463	3.0441032	13	1	21 days	0.54		Williams	2000 EU ₃₄
2000 EX ₃₄	15.4	0.15	20000226	57.33488	359.35103	72.02157	6.64954	0.1989774	2.2986875	16	1	5 days	0.50	E	Williams	2000 EX ₃₄
2000 EL ₃₅	16.3	0.15	20000226	328.65878	190.30699	3.59060	4.72476	0.0854687	2.4499374	17	1	6 days	0.73	E	Williams	2000 EL ₃₅
2000 EN ₃₅	15.0	0.15	20000226	290.28157	137.46401	106.93187	9.60674	0.1517197	2.5411362	23	1	24 days	0.56		Williams	2000 EN ₃₅
2000 EU ₃₅	15.7	0.15	20000317	20.31301	124.96405	36.72980	6.61952	0.0588672	2.2324637	30	1	33 days	0.52		Williams	2000 EU ₃₅
2000 ED ₃₆	14.4	0.15	20000226	15.06871	35.90603	108.03919	13.78131	0.1621944	2.3990662	34	1	92 days	0.66	M-v 4	Williams	2000 ED ₃₆
2000 EF ₃₆	13.6	0.15	20000226	68.14431	350.29870	97.62966	6.59640	0.0733499	2.4109237	32	1	67 days	0.57	M-v 4	Williams	2000 EF ₃₆
2000 EG ₃₆	13.8	0.15	20000317	307.06705	204.69862	35.47360	8.70709	0.1749717	2.5522202	28	1	30 days	0.35		Williams	2000 EG ₃₆
2000 EL ₃₆	13.7	0.15	20000317	324.76160	172.59579	44.25474	10.97889	0.1150004	2.7690294	37	1	34 days	0.47		Williams	2000 EL ₃₆

2000 APR. 18

M.P.C. 40477

2000 EM ₃₆	14.5	0.15	20000317	72.11855	344.69349	91.10764	9.51617	0.2242489	2.7466980	29	1	34 days	0.51		Williams	2000 EM ₃₆
2000 EO ₃₆	14.2	0.15	20000226	308.01752	210.69661	30.84396	2.70855	0.1715799	2.3808177	57	1	93 days	0.54	M-v 5	Williams	2000 EO ₃₆
2000 EQ ₃₆	13.7	0.15	20000226	203.82668	162.07065	173.13552	10.92457	0.0951119	2.4844179	47	3	1992-2000	0.48	M-v 4	Williams	39491 2000 EQ ₃₆
2000 ER ₃₆	14.9	0.15	20000317	98.94820	258.42318	173.89042	15.06254	0.0739228	2.6231395	38	1	41 days	0.38		Williams	2000 ER ₃₆
2000 ES ₃₆	14.8	0.15	20000317	291.02796	109.46052	149.27481	1.84449	0.0942857	2.5417902	47	1	43 days	0.47		Williams	2000 ES ₃₆
2000 ET ₃₆	14.6	0.15	20000226	15.39174	354.10494	158.80239	3.32466	0.1132446	2.2905258	56	2	1998-2000	0.55	M-v 4	Williams	39491 2000 ET ₃₆
2000 EV ₃₆	14.0	0.15	20000226	180.89414	348.82882	8.57751	15.34063	0.2239857	2.5865240	51	1	59 days	0.55		Williams	2000 EV ₃₆
2000 EW ₃₆	14.7	0.15	20000226	38.33357	344.75607	135.24825	2.23984	0.1772114	2.2871127	60	2	1998-2000	0.56	M-v 4	Williams	39491 2000 EW ₃₆
2000 EX ₃₆	14.3	0.15	20000317	121.67622	356.98856	57.41692	2.85663	0.0606909	2.8977316	38	1	33 days	0.51		Williams	2000 EX ₃₆
2000 EY ₃₆	15.1	0.15	20000317	306.85162	235.20870	20.13164	5.00811	0.2016074	2.3590654	58	1	46 days	0.35		Williams	2000 EY ₃₆
2000 EZ ₃₆	15.8	0.15	20000317	326.51907	221.39524	2.38794	2.28563	0.1570658	2.4247299	39	1	40 days	0.50		Williams	2000 EZ ₃₆
2000 EB ₃₇	16.0	0.15	20000317	349.24294	189.83572	4.29173	2.02421	0.1632227	2.4057104	58	1	43 days	0.37		Williams	2000 EB ₃₇
2000 EC ₃₇	15.2	0.15	20000317	299.96480	17.14832	238.63710	0.61245	0.1530903	2.4054702	53	1	36 days	0.43		Williams	2000 EC ₃₇
2000 ED ₃₇	15.7	0.15	20000317	39.87404	142.79946	355.00227	6.01988	0.0203107	2.3040258	39	1	40 days	0.75		Williams	2000 ED ₃₇
2000 EF ₃₇	15.3	0.15	20000226	19.67173	325.55427	183.22657	7.29694	0.0885309	2.2277042	62	2	1998-2000	0.51	M-v 4	Williams	39491 2000 EF ₃₇
2000 EH ₃₇	15.8	0.15	20000317	315.56620	246.48892	347.28560	5.35800	0.1094863	2.3266159	29	1	31 days	0.53		Williams	2000 EH ₃₇
2000 EJ ₃₇	15.8	0.15	20000317	296.98606	83.08830	186.77811	5.59194	0.2343888	2.8669864	26	1	29 days	0.58		Marsden	2000 EJ ₃₇
2000 EM ₃₇	16.1	0.15	20000317	1.93094	235.79514	301.70909	1.70064	0.1361026	2.3632295	55	1	31 days	0.40		Williams	2000 EM ₃₇
2000 EN ₃₇	15.8	0.15	20000317	16.23130	332.16893	179.85349	12.81609	0.2584228	3.0715195	45	1	33 days	0.63		Williams	2000 EN ₃₇
2000 EQ ₃₇	14.9	0.15	20000317	345.67543	323.19476	233.75821	0.97047	0.0441628	2.9254982	35	1	29 days	0.55		Williams	2000 EQ ₃₇
2000 ER ₃₇	15.6	0.15	20000317	354.33755	8.48153	180.48130	10.99220	0.1968984	2.5749782	36	1	36 days	0.47		Williams	2000 ER ₃₇
2000 ET ₃₇	13.6	0.15	20000226	30.00118	314.60991	177.40236	15.91273	0.1884090	3.0872235	55	1	62 days	0.47	M-v 4	Williams	2000 ET ₃₇
2000 EU ₃₇	13.7	0.15	20000226	72.88797	294.19032	156.41960	5.65366	0.1360192	3.1002685	62	2	1998-2000	0.62	M-v 4	Williams	39491 2000 EU ₃₇
2000 EW ₃₇	15.9	0.15	20000317	310.57452	235.76026	1.72780	6.50474	0.0898505	2.3868581	65	1	43 days	0.45		Williams	2000 EW ₃₇
2000 EX ₃₇	14.5	0.15	20000317	349.19825	187.22104	6.89189	4.47248	0.1070424	3.1983893	49	1	40 days	0.47		Williams	2000 EX ₃₇
2000 ED ₃₈	14.9	0.15	20000226	354.78582	5.71221	176.23288	1.79804	0.1315226	2.6755544	58	1	64 days	0.42	M-v 4	Williams	2000 ED ₃₈
2000 EE ₃₈	17.6	0.15	20000317	17.54549	283.75999	200.69322	2.67686	0.5048705	3.1231681	26	1	29 days	0.53		Williams	2000 EE ₃₈
2000 EF ₃₈	15.3	0.15	20000226	64.81843	141.89723	312.90631	1.86884	0.1402516	2.4486461	37	2	1998-2000	0.56	M-v 4	Williams	39492 2000 EF ₃₈
2000 EH ₃₈	15.3	0.15	20000317	317.79010	250.64732	343.90143	5.59516	0.1352123	2.2700787	36	1	33 days	0.39		Williams	2000 EH ₃₈
2000 EL ₃₈	13.0	0.15	20000317	272.90457	89.89469	183.97300	9.51761	0.0434532	2.9808942	62	1	33 days	0.56		Williams	2000 EL ₃₈
2000 EP ₃₈	14.8	0.15	20000317	106.89279	61.96698	6.45332	1.51123	0.0673989	3.0219422	25	1	29 days	0.94		Williams	2000 EP ₃₈
2000 EQ ₃₈	14.7	0.15	20000317	353.48457	9.04827	182.61994	15.41568	0.2080731	3.1699550	48	1	35 days	0.57		Williams	2000 EQ ₃₈
2000 ET ₃₈	14.3	0.15	20000317	117.90336	237.51504	186.41080	11.95381	0.0068238	2.9358701	39	1	31 days	0.63		Williams	2000 ET ₃₈
2000 EX ₃₈	14.5	0.15	20000226	347.73181	204.45264	347.40887	4.93878	0.1747546	2.4648068	37	1	62 days	0.38	M-v 4	Williams	2000 EX ₃₈
2000 EZ ₃₈	15.6	0.15	20000226	53.17044	255.15404	209.71731	1.34557	0.1675283	2.3309970	41	2	1998-2000	0.46	M-v 4	Williams	39492 2000 EZ ₃₈
2000 EA ₃₉	15.1	0.15	20000317	254.71223	123.52473	179.61220	9.81594	0.1454856	2.8630212	37	1	33 days	0.66		Williams	2000 EA ₃₉
2000 EB ₃₉	14.2	0.15	20000317	82.95045	89.45529	1.36951	10.15928	0.0778702	2.9718467	37	1	30 days	0.56		Williams	2000 EB ₃₉
2000 EC ₃₉	13.7	0.15	20000317	224.47718	297.58417	33.29569	0.39441	0.1735891	3.1187751	40	1	41 days	0.57		Williams	2000 EC ₃₉
2000 ED ₃₉	15.5	0.15	20000317	217.83267	336.11307	357.31582	1.72821	0.1452301	2.2069953	32	1	30 days	0.45		Williams	2000 ED ₃₉
2000 EE ₃₉	15.6	0.15	20000317	348.09247	189.97849	8.21692	1.65010	0.1674531	2.5366870	50	1	41 days	0.54		Williams	2000 EE ₃₉
2000 EF ₃₉	14.9	0.15	20000317	11.04499	125.43591	42.61016	1.62089	0.1235780	3.0925731	46	1	43 days	0.49		Williams	2000 EF ₃₉
2000 EH ₃₉	15.3	0.15	20000317	236.79779	162.12912	158.73748	1.63737	0.1793158	2.3972826	32	1	40 days	0.59		Williams	2000 EH ₃₉
2000 EJ ₃₉	15.1	0.15	20000317	274.91699	118.69931	164.07817	4.46992	0.1394639	2.6682478	24	1	30 days	0.64		Williams	2000 EJ ₃₉
2000 EK ₃₉	15.4	0.15	20000317	255.76497	288.54454	10.43699	6.29339	0.1283859	2.2969626	51	1	41 days	0.45		Williams	2000 EK ₃₉
2000 EL ₃₉	14.2	0.15	20000226	320.42153	208.06936	9.87605	6.73027	0.0370519	2.4047640	69	1	93 days	0.45	M-v 4	Williams	2000 EL ₃₉
2000 EN ₃₉	15.1	0.15	20000317	209.02407	317.52557	21.59292	4.39146	0.1171311	2.7992818	38	1	30 days	0.66		Williams	2000 EN ₃₉
2000 EO ₃₉	15.4	0.15	20000317	0.14466	170.36362	11.67230	7.96568	0.1476619	3.1424503	46	1	43 days	0.52		Williams	2000 EO ₃₉
2000 EP ₃₉	14.7	0.15	20000317	10.38186	144.04836	25.39139	4.44278	0.1037341	3.0648687	48	1	43 days	0.46		Williams	2000 EP ₃₉
2000 EQ ₃₉	14.7	0.15	20000317	221.59754	175.10040	150.25779	2.64092	0.0574568	2.8345403	47	1	43 days	0.50		Williams	2000 EQ ₃₉
2000 ER ₃₉	16.2	0.15	20000317	345.26887	157.43804	46.34188	1.62765	0.1997336	2.5538601	41	1	36 days	0.62		Williams	2000 ER ₃₉
2000 ES ₃₉	15.0	0.15	20000317	48.17023	1.00447	122.06827	2.15430	0.1225278	3.0959483	35	1	30 days	0.64		Williams	2000 ES ₃₉
2000 ET ₃₉	16.2	0.15	20000317	331.46169	199.04359	20.20707	4.38915	0.1418367	2.4219303	38	1	39 days	0.56		Williams	2000 ET ₃₉
2000 EY ₃₉	15.6	0.15	20000317	304.30197	207.17303	47.33429	1.92926	0.1568527	2.4264430	25	1	30 days	0.38		Williams	2000 EY ₃₉

2000 EA ₄₀	14.7	0.15	20000317	88.33466	6.95746	79.42595	2.01236	0.0764732	2.8326468	37	1	33 days	0.61	Williams	2000 EA ₄₀
2000 EC ₄₀	14.1	0.15	20000317	4.72769	3.06904	175.73518	10.24533	0.0412704	2.9905248	38	1	45 days	0.43	Williams	2000 EC ₄₀
2000 EH ₄₀	17.1	0.15	20000317	359.95243	8.74000	172.99522	3.82714	0.2072231	2.3451522	43	1	33 days	0.62	Williams	2000 EH ₄₀
2000 EL ₄₀	13.6	0.15	20000317	194.72049	350.76974	0.60832	11.08145	0.0916303	2.4440712	37	1	33 days	0.47	Williams	2000 EL ₄₀
2000 EO ₄₀	13.6	0.15	20000317	295.31693	85.30735	178.09100	13.03667	0.1281087	2.7469302	59	1	33 days	0.41	Williams	2000 EO ₄₀
2000 EQ ₄₀	13.7	0.15	20000226	309.58609	63.78730	167.69220	9.56780	0.0115187	2.9703958	44	1	59 days	0.47	Williams	2000 EQ ₄₀
2000 ER ₄₀	13.6	0.15	20000317	279.22836	212.47297	69.67392	2.39196	0.1452574	3.1554465	45	1	33 days	0.45	Williams	2000 ER ₄₀
2000 ES ₄₀	15.3	0.15	20000317	21.33807	144.50856	13.79802	9.58272	0.0841050	2.7410124	51	1	40 days	0.66	Williams	2000 ES ₄₀
2000 EU ₄₀	15.0	0.15	20000317	321.81784	229.65225	5.44002	0.79609	0.1412359	3.0420282	38	1	37 days	0.59	Williams	2000 EU ₄₀
2000 EW ₄₀	15.0	0.15	20000317	7.90982	0.12601	175.97560	11.96305	0.0749485	2.8117342	44	1	40 days	0.55	Williams	2000 EW ₄₀
2000 EY ₄₀	14.8	0.15	20000317	343.82446	30.37459	174.18682	1.63462	0.0648693	2.9630559	50	1	33 days	0.60	Williams	2000 EY ₄₀
2000 EZ ₄₀	16.6	0.15	20000317	17.74125	137.53060	24.23765	1.48972	0.1291249	2.4423572	55	1	43 days	0.51	Williams	2000 EZ ₄₀
2000 EA ₄₁	16.2	0.15	20000317	348.91518	194.86888	5.27178	5.27059	0.1744711	2.3137273	44	1	40 days	0.29	Williams	2000 EA ₄₁
2000 EC ₄₁	14.1	0.15	20000317	5.82813	166.50252	13.92510	10.23408	0.0604194	3.0564678	48	1	40 days	0.62	Williams	2000 EC ₄₁
2000 ED ₄₁	14.4	0.15	20000317	314.43332	87.97696	154.22491	3.55581	0.1061124	3.0387152	38	1	29 days	0.39	Williams	2000 ED ₄₁
2000 EF ₄₁	15.0	0.15	20000317	261.83656	261.12056	36.87367	3.05645	0.1196904	2.5753702	44	1	33 days	0.51	Williams	2000 EF ₄₁
2000 EJ ₄₁	14.9	0.15	20000317	13.49356	160.70352	9.39337	12.76677	0.0891692	2.5641064	57	1	40 days	0.45	Williams	2000 EJ ₄₁
2000 EL ₄₁	15.8	0.15	20000317	289.19380	101.05942	163.39358	5.01719	0.0623568	2.2474623	59	1	40 days	0.67	Williams	2000 EL ₄₁
2000 EN ₄₁	15.4	0.15	20000317	82.91958	276.47813	174.64592	6.03332	0.1166868	2.5494906	28	1	40 days	0.61	Williams	2000 EN ₄₁
2000 EO ₄₁	15.1	0.15	20000317	30.31894	124.26040	22.39215	4.62264	0.1448906	2.6828830	42	1	40 days	0.53	Williams	2000 EO ₄₁
2000 EP ₄₁	14.8	0.15	20000317	225.67940	188.40714	146.05616	2.73423	0.1643959	2.5252956	36	1	40 days	0.57	Williams	2000 EP ₄₁
2000 EQ ₄₁	15.8	0.15	20000317	307.92986	107.34879	151.20181	2.60342	0.1901056	2.3656764	44	1	33 days	0.67	Williams	2000 EQ ₄₁
2000 ER ₄₁	15.0	0.15	20000317	339.56547	191.99593	20.39702	9.56380	0.0589663	3.1708044	29	1	33 days	0.69	Williams	2000 ER ₄₁
2000 ES ₄₁	15.7	0.15	20000317	336.58841	46.41551	168.86337	4.90767	0.0859550	2.3485805	13	1	21 days	0.59	Williams	2000 ES ₄₁
2000 ET ₄₁	15.1	0.15	20000226	329.16484	68.01777	161.87196	5.03224	0.2386574	2.5972870	48	1	62 days	0.43	M-v 4 Williams	2000 ET ₄₁
2000 EW ₄₁	14.8	0.15	20000317	245.71299	149.02962	168.81719	5.37891	0.2610988	2.3833099	39	1	39 days	0.50	Williams	2000 EW ₄₁
2000 EX ₄₁	16.3	0.15	20000317	20.60802	112.97894	38.81984	1.38930	0.1608230	2.3806043	27	1	30 days	0.55	Williams	2000 EX ₄₁
2000 EY ₄₁	13.5	0.15	20000226	140.23714	23.38924	1.87398	1.34214	0.2476718	3.0594285	30	2	1999-2000	0.70	M-v 6 Williams	39492 2000 EY ₄₁
2000 EA ₄₂	14.7	0.15	20000317	232.36290	220.66616	91.41759	0.14558	0.0280270	2.7444184	34	1	40 days	0.43	Williams	2000 EA ₄₂
2000 EB ₄₂	16.6	0.15	20000317	358.43087	214.97012	327.44542	2.23795	0.1188494	2.4419129	22	1	29 days	0.46	Williams	2000 EB ₄₂
2000 EC ₄₂	15.2	0.15	20000317	55.88219	215.36167	250.38604	1.43852	0.1788470	2.4374720	21	1	29 days	0.99	Williams	2000 EC ₄₂
2000 ED ₄₂	13.9	0.15	20000317	274.47743	303.11896	342.35792	5.02369	0.1563654	3.1496831	37	1	31 days	0.57	Williams	2000 ED ₄₂
2000 EF ₄₂	14.5	0.15	20000317	44.95565	306.26836	181.26670	17.82394	0.1092863	3.1226372	25	1	29 days	0.68	Williams	2000 EF ₄₂
2000 EG ₄₂	15.1	0.15	20000317	63.84855	278.33783	179.27015	13.98042	0.1817188	2.6960731	26	1	33 days	0.54	Williams	2000 EG ₄₂
2000 EK ₄₂	14.1	0.15	20000317	265.87189	295.23066	355.22035	10.43190	0.1185433	3.1242422	26	1	29 days	0.46	Williams	2000 EK ₄₂
2000 EN ₄₂	13.9	0.15	20000317	306.86495	67.80620	167.71676	5.35240	0.0014136	2.7514384	51	1	33 days	0.47	Williams	2000 EN ₄₂
2000 EO ₄₂	15.9	0.15	20000317	330.74806	42.41127	174.26198	15.35493	0.0849375	2.8431449	27	1	30 days	0.55	Williams	2000 EO ₄₂
2000 EP ₄₂	16.8	0.15	20000317	24.95091	355.93071	151.86024	3.37511	0.1539135	2.3793455	25	1	33 days	0.45	Williams	2000 EP ₄₂
2000 EQ ₄₂	14.8	0.15	20000317	49.20572	111.71028	15.42341	7.92580	0.0762967	3.2089745	14	1	28 days	0.80	Williams	2000 EQ ₄₂
2000 ER ₄₂	15.5	0.15	20000317	243.53905	299.62847	15.80285	6.37307	0.1729279	2.4268044	33	1	33 days	0.51	Williams	2000 ER ₄₂
2000 ET ₄₂	16.4	0.15	20000317	352.69505	20.29740	170.40571	5.96143	0.0924409	2.2483649	43	1	44 days	0.70	Williams	2000 ET ₄₂
2000 EU ₄₂	15.2	0.15	20000317	218.80316	325.00079	11.12187	5.72723	0.1943424	2.2700262	25	1	39 days	0.42	Williams	2000 EU ₄₂
2000 EW ₄₂	14.8	0.15	20000317	299.54765	300.73870	318.34278	0.87186	0.1361634	2.9726910	25	1	30 days	0.43	Williams	2000 EW ₄₂
2000 EX ₄₂	17.1	0.15	20000317	6.72004	357.78339	175.87123	6.64895	0.1031494	2.2112891	32	1	28 days	0.63	Williams	2000 EX ₄₂
2000 EY ₄₂	15.0	0.15	20000317	284.49111	273.22523	3.33646	2.45509	0.1581056	2.3807330	46	1	33 days	0.58	Williams	2000 EY ₄₂
2000 EZ ₄₂	14.6	0.15	20000317	176.17255	0.78192	6.12839	12.42447	0.1330334	2.7591364	32	1	40 days	0.55	Williams	2000 EZ ₄₂
2000 EA ₄₃	15.5	0.15	20000317	299.11449	81.47161	182.23476	5.15013	0.1825612	2.3463652	42	1	33 days	0.68	Williams	2000 EA ₄₃
2000 EB ₄₃	13.4	0.15	20000317	53.62598	112.65374	2.15285	4.50059	0.1687756	3.9437609	30	1	29 days	0.41	Williams	2000 EB ₄₃
2000 ED ₄₃	15.8	0.15	20000317	271.58463	255.31504	32.10978	3.43499	0.1418032	2.2663613	32	1	30 days	0.74	Williams	2000 ED ₄₃
2000 EE ₄₃	14.7	0.15	20000317	335.64628	93.16370	122.51073	2.07643	0.1051334	3.0455457	44	1	40 days	0.54	Williams	2000 EE ₄₃
2000 EF ₄₃	16.5	0.15	20000317	44.56890	314.96569	171.71590	1.18388	0.1366075	2.3769979	32	1	40 days	0.80	Williams	2000 EF ₄₃
2000 EH ₄₃	16.5	0.15	20000317	327.30032	53.71922	172.70229	2.28017	0.1322269	2.5811112	46	1	33 days	0.56	Williams	2000 EH ₄₃
2000 EJ ₄₃	16.0	0.15	20000317	286.05874	94.66581	178.66288	6.21203	0.1336631	2.2488023	56	1	40 days	0.48	Williams	2000 EJ ₄₃

2000 EK ₄₃	14.3	0.15	20000317	308.04590	224.27618	30.85439	2.39376	0.1711075	3.1951198	58	1	40 days	0.69	Williams	2000 EK ₄₃
2000 EM ₄₃	14.7	0.15	20000317	33.79672	42.11340	99.99161	1.10061	0.1355906	3.0666511	49	1	40 days	0.65	Williams	2000 EM ₄₃
2000 EO ₄₃	14.6	0.15	20000317	233.62072	308.08156	21.89380	5.94703	0.2254020	2.5625145	39	1	33 days	0.56	Williams	2000 EO ₄₃
2000 EP ₄₃	15.9	0.15	20000317	45.78011	311.00100	175.35890	5.01982	0.1382469	2.4708927	43	1	40 days	0.58	Williams	2000 EP ₄₃
2000 ER ₄₃	16.7	0.15	20000317	312.26533	75.06501	169.80727	3.98179	0.1265722	2.1662175	43	1	29 days	0.65	Williams	2000 ER ₄₃
2000 ES ₄₃	16.3	0.15	20000317	12.69612	7.08734	165.07564	6.09542	0.0383487	2.2705015	35	1	40 days	0.68	Williams	2000 ES ₄₃
2000 EU ₄₃	13.9	0.15	20000317	99.78075	262.93018	177.71277	8.07382	0.0754849	3.0489156	43	1	31 days	0.65	Williams	2000 EU ₄₃
2000 EV ₄₃	15.9	0.15	20000317	15.10288	148.03669	17.88485	4.16443	0.1547303	2.6527449	43	1	40 days	0.52	Williams	2000 EV ₄₃
2000 EW ₄₃	15.0	0.15	20000317	3.02470	72.68039	110.90455	1.78204	0.1381214	2.9903941	24	1	30 days	0.43	Williams	2000 EW ₄₃
2000 EX ₄₃	15.7	0.15	20000317	349.12387	189.08029	11.24278	13.07783	0.0732486	2.7691701	33	1	31 days	0.40	Williams	2000 EX ₄₃
2000 EZ ₄₃	16.8	0.15	20000317	20.06253	335.34143	177.37213	3.63967	0.1728969	2.5325672	28	1	42 days	0.77	Williams	2000 EZ ₄₃
2000 EG ₄₄	16.3	0.15	20000317	292.45198	53.10353	206.84886	3.42489	0.0952995	2.3093974	33	1	30 days	0.67	Williams	2000 EG ₄₄
2000 EJ ₄₄	16.0	0.15	20000317	51.64889	266.85940	205.73137	2.82917	0.1736105	2.4844701	32	1	29 days	0.49	Williams	2000 EJ ₄₄
2000 EO ₄₄	15.1	0.15	20000226	296.65189	321.76416	296.72683	1.99032	0.1695509	2.2378455	39	1	60 days	0.48	M-v 5 Williams	2000 EO ₄₄
2000 EP ₄₄	15.6	0.15	20000317	262.86132	97.73493	203.97314	3.86585	0.1994693	2.1688458	34	1	32 days	0.81	Williams	2000 EP ₄₄
2000 ER ₄₄	15.3	0.15	20000317	7.08081	180.96004	350.57134	6.83855	0.1795197	2.3798308	32	1	33 days	0.45	Williams	2000 ER ₄₄
2000 ES ₄₄	16.0	0.15	20000317	312.86663	299.05889	314.97207	1.45287	0.2386626	2.6154167	27	1	29 days	0.48	Williams	2000 ES ₄₄
2000 EV ₄₄	14.9	0.15	20000317	284.99098	37.86288	235.69738	1.38121	0.1341922	2.3778927	41	1	36 days	0.35	Williams	2000 EV ₄₄
2000 EW ₄₄	13.9	0.15	20000317	184.75932	169.70916	190.63328	11.31009	0.0394741	3.0931649	25	1	28 days	0.50	Williams	2000 EW ₄₄
2000 EZ ₄₄	14.1	0.15	20000226	58.87517	109.73109	358.66412	10.90505	0.1194742	2.8290452	16	1	5 days	0.95	E Williams	2000 EZ ₄₄
2000 EC ₄₅	15.3	0.15	20000317	16.43549	165.74559	356.47563	13.89098	0.1400999	2.7420184	26	1	35 days	0.47	Williams	2000 EC ₄₅
2000 EF ₄₅	16.8	0.15	20000317	334.91501	238.65616	344.33940	4.45655	0.2286984	2.3148214	35	1	32 days	0.55	Williams	2000 EF ₄₅
2000 EG ₄₅	13.7	0.15	20000317	325.89805	235.16450	352.78446	5.23360	0.1108083	3.1012186	47	1	32 days	0.50	Williams	2000 EG ₄₅
2000 EH ₄₅	14.0	0.15	20000317	287.91747	17.67382	244.37714	1.37790	0.0363694	2.9044333	23	1	28 days	0.53	Williams	2000 EH ₄₅
2000 EK ₄₅	13.5	0.15	20000317	70.26933	266.90734	187.05659	5.53609	0.1677217	2.2989670	50	1	39 days	0.57	Williams	2000 EK ₄₅
2000 EM ₄₅	15.3	0.15	20000317	16.86008	329.91075	191.32456	5.33515	0.1351732	2.4386540	45	1	38 days	0.67	Williams	2000 EM ₄₅
2000 EP ₄₅	13.5	0.15	20000317	271.71970	92.84832	189.28461	9.42001	0.0718610	3.0662098	47	1	38 days	0.39	Williams	2000 EP ₄₅
2000 EQ ₄₅	14.2	0.15	20000317	295.86409	68.89140	187.38521	4.95930	0.0725637	2.5292167	33	1	32 days	0.64	Williams	2000 EQ ₄₅
2000 ER ₄₅	14.6	0.15	20000317	199.57750	115.72300	235.82827	0.44951	0.1989189	2.3854232	18	1	28 days	0.46	Williams	2000 ER ₄₅
2000 ES ₄₅	15.5	0.15	20000317	321.20354	56.21359	182.79778	10.02955	0.1932405	2.3495969	41	1	32 days	0.35	Williams	2000 ES ₄₅
2000 EU ₄₅	14.6	0.15	20000317	60.73904	285.15689	184.39799	12.97030	0.1370045	2.5955971	57	1	32 days	0.39	Williams	2000 EU ₄₅
2000 EV ₄₅	15.4	0.15	20000317	359.33402	190.12727	355.09845	2.27005	0.1749490	2.5457717	36	1	32 days	0.41	Williams	2000 EV ₄₅
2000 EX ₄₅	14.6	0.15	20000317	262.46936	94.82743	195.44407	3.45950	0.0594167	2.7289917	27	1	29 days	0.51	Williams	2000 EX ₄₅
2000 EZ ₄₅	16.2	0.15	20000317	348.11849	346.67968	214.13808	1.68414	0.1482322	2.3958903	36	1	29 days	0.44	Williams	2000 EZ ₄₅
2000 EJ ₄₆	16.0	0.15	20000317	291.35605	75.50063	187.51350	6.38029	0.0852127	2.3377194	46	1	38 days	0.70	Williams	2000 EJ ₄₆
2000 EN ₄₆	15.4	0.15	20000317	92.37014	81.98222	3.34089	6.62603	0.0697288	2.3630999	32	1	29 days	0.64	Williams	2000 EN ₄₆
2000 EP ₄₆	14.6	0.15	20000317	306.99767	215.85190	37.08777	0.56921	0.1298575	3.0854081	37	1	30 days	0.53	Williams	2000 EP ₄₆
2000 ER ₄₆	15.4	0.15	20000317	26.75410	336.38457	179.76745	1.80488	0.0731497	2.9099349	35	1	28 days	0.58	Williams	2000 ER ₄₆
2000 ET ₄₆	14.7	0.15	20000317	291.61317	272.69149	356.03760	6.07012	0.1237435	2.4549622	59	1	37 days	0.45	Williams	2000 ET ₄₆
2000 EU ₄₆	15.4	0.15	20000317	354.06556	196.43182	356.71126	4.92919	0.1479879	2.3240859	41	1	32 days	0.49	Williams	2000 EU ₄₆
2000 EW ₄₆	16.8	0.15	20000317	45.08303	131.95343	1.71753	5.98105	0.0792084	2.2067102	40	1	29 days	0.52	Williams	2000 EW ₄₆
2000 EY ₄₆	15.2	0.15	20000317	301.22141	24.13149	226.93831	1.15001	0.0400392	2.8417387	36	1	30 days	0.52	Williams	2000 EY ₄₆
2000 EA ₄₇	16.5	0.15	20000317	17.66739	324.30239	198.36216	4.24002	0.1380642	2.4461058	29	1	29 days	0.53	Williams	2000 EA ₄₇
2000 EE ₄₇	14.1	0.15	20000317	277.15775	272.88708	6.72996	12.29299	0.0688324	2.8920192	44	1	30 days	0.60	Williams	2000 EE ₄₇
2000 EF ₄₇	13.2	0.15	20000317	236.97654	139.41441	186.99397	22.82974	0.1625799	3.1920052	45	1	37 days	0.40	Williams	2000 EF ₄₇
2000 EG ₄₇	14.7	0.15	20000317	65.73149	56.07726	51.39342	1.23502	0.1384178	3.1227101	58	1	34 days	0.46	Williams	2000 EG ₄₇
2000 EJ ₄₇	15.5	0.15	20000317	288.09680	267.60122	11.19620	5.31848	0.1773614	2.2305631	57	1	40 days	0.64	Williams	2000 EJ ₄₇
2000 EL ₄₇	15.2	0.15	20000226	357.93802	164.33155	17.56697	2.52923	0.1396018	2.3777304	57	1	62 days	0.39	M-v 4 Williams	2000 EL ₄₇
2000 EN ₄₇	16.0	0.15	20000317	55.16236	115.92491	9.87779	6.51517	0.0632249	2.3560387	34	1	30 days	0.46	Williams	2000 EN ₄₇
2000 EO ₄₇	16.8	0.15	20000317	66.44471	328.74564	135.62484	0.50830	0.1457999	2.3188622	42	1	39 days	0.63	Williams	2000 EO ₄₇
2000 EP ₄₇	15.3	0.15	20000317	256.07659	134.40014	179.58038	5.42584	0.2197200	2.2039642	57	1	37 days	0.40	Williams	2000 EP ₄₇
2000 EQ ₄₇	15.0	0.15	20000317	266.37723	286.01146	16.20701	4.11709	0.1801670	2.5805918	46	1	32 days	0.56	Williams	2000 EQ ₄₇
2000 ER ₄₇	14.7	0.15	20000317	232.77516	317.26929	5.26354	1.77466	0.0665290	2.8448111	41	1	33 days	0.75	Williams	2000 ER ₄₇

2000 EU ₄₇	16.5	0.15	20000317	313.70797	41.77630	198.59954	4.15765	0.0825466	2.2120128	37	1	30 days	0.63	Williams	2000 EU ₄₇
2000 EW ₄₇	15.2	0.15	20000317	279.11922	284.29194	357.70703	6.87597	0.1160059	2.3518443	35	1	32 days	0.54	Williams	2000 EW ₄₇
2000 EX ₄₇	15.5	0.15	20000317	146.19687	33.54317	2.24211	7.05496	0.1144158	2.2684222	44	1	37 days	0.61	Williams	2000 EX ₄₇
2000 EE ₄₈	16.1	0.15	20000317	356.54342	185.47844	5.90460	5.55077	0.0779012	2.1893063	51	1	37 days	0.47	Williams	2000 EE ₄₈
2000 EF ₄₈	14.7	0.15	20000317	304.82346	74.69008	187.91866	21.81779	0.1601165	3.0986846	29	1	32 days	0.45	Williams	2000 EF ₄₈
2000 EG ₄₈	15.4	0.15	20000317	282.05484	265.42441	21.96552	2.74826	0.1680398	2.7622523	56	1	34 days	0.40	Williams	2000 EG ₄₈
2000 EH ₄₈	14.0	0.15	20000317	144.72820	208.64849	186.63741	12.67444	0.1952764	2.5395135	42	1	32 days	0.39	Williams	2000 EH ₄₈
2000 EJ ₄₈	15.7	0.15	20000317	11.41408	159.51108	15.63468	6.92627	0.0337500	2.2566094	61	1	40 days	0.43	Williams	2000 EJ ₄₈
2000 EK ₄₈	15.3	0.15	20000317	63.97622	301.44460	177.87044	8.91488	0.0533255	2.5930376	36	1	32 days	0.42	Williams	2000 EK ₄₈
2000 EL ₄₈	15.3	0.15	20000317	69.13915	301.28842	175.20975	7.47832	0.0306551	2.4052993	35	1	32 days	0.63	Williams	2000 EL ₄₈
2000 EM ₄₈	14.6	0.15	20000317	214.88531	312.52591	28.27945	4.71521	0.0791512	2.7877804	42	1	32 days	0.45	Williams	2000 EM ₄₈
2000 EN ₄₈	16.2	0.15	20000317	263.91496	283.69804	19.44000	3.71303	0.1652898	2.2288247	58	1	34 days	0.40	Williams	2000 EN ₄₈
2000 EP ₄₈	14.3	0.15	20000317	318.08463	207.94943	37.60215	1.56633	0.1409091	3.1366390	42	1	33 days	0.48	Williams	2000 EP ₄₈
2000 ER ₄₈	17.0	0.15	20000317	328.57749	254.08323	338.49429	1.01287	0.1828536	2.3477256	44	1	32 days	0.55	Williams	2000 ER ₄₈
2000 ET ₄₈	14.9	0.15	20000317	227.89365	150.75714	188.64210	11.46498	0.2389317	2.3348055	51	1	32 days	0.53	Williams	2000 ET ₄₈
2000 EV ₄₈	15.6	0.15	20000317	295.37402	260.47595	7.91878	5.42398	0.1312582	2.2346094	48	1	32 days	0.37	Williams	2000 EV ₄₈
2000 EX ₄₈	16.3	0.15	20000317	325.60249	1.68442	223.80183	2.36010	0.1235489	2.3302183	29	1	29 days	0.59	Williams	2000 EX ₄₈
2000 EA ₄₉	14.9	0.15	20000317	72.80355	257.04097	210.73376	3.73459	0.0677223	2.7643145	39	1	30 days	0.50	Williams	2000 EA ₄₉
2000 EB ₄₉	15.2	0.15	20000317	281.10559	351.93133	283.32719	1.27093	0.0747049	2.4636360	38	1	30 days	0.56	Williams	2000 EB ₄₉
2000 ED ₄₉	15.1	0.15	20000317	135.13395	228.91117	181.98637	5.09617	0.0426021	2.7177102	50	1	37 days	0.57	Williams	2000 ED ₄₉
2000 EE ₄₉	14.5	0.15	20000317	268.68046	300.48163	5.86600	7.72578	0.2251273	2.7944654	37	1	36 days	0.71	Williams	2000 EE ₄₉
2000 EG ₄₉	15.7	0.15	20000317	272.77581	116.40478	183.49863	3.51728	0.2101381	2.4394516	57	1	37 days	0.43	Williams	2000 EG ₄₉
2000 EH ₄₉	16.5	0.15	20000317	292.84721	266.33863	10.93329	6.20300	0.1838726	2.2832554	34	1	29 days	0.44	Williams	2000 EH ₄₉
2000 EJ ₄₉	15.1	0.15	20000317	155.19277	194.35323	188.97515	14.67182	0.0994624	2.6431071	22	1	34 days	0.62	Williams	2000 EJ ₄₉
2000 EL ₄₉	14.8	0.15	20000226	36.09306	92.49231	24.99041	16.80838	0.1817165	3.2129329	19	1	21 days	0.84	Williams	2000 EL ₄₉
2000 EN ₄₉	14.2	0.15	20000317	160.99068	239.94692	133.67830	11.88252	0.1271882	3.0375790	24	1	30 days	0.50	Williams	2000 EN ₄₉
2000 EO ₄₉	14.7	0.15	20000317	150.00373	355.66019	28.46251	13.70550	0.0564618	2.6472626	16	1	17 days	0.51	Williams	2000 EO ₄₉
2000 ET ₄₉	13.4	0.15	20000317	108.19225	225.57334	197.63130	14.92933	0.2008986	3.1640591	52	1	37 days	0.41	Williams	2000 ET ₄₉
2000 EV ₄₉	13.3	0.15	20000226	132.16264	227.02923	138.98780	14.65528	0.1535786	2.6927053	24	1	48 days	0.63	Williams	2000 EV ₄₉
2000 EA ₅₀	14.8	0.15	20000317	262.57363	290.60923	4.95846	13.16927	0.1803644	2.6744980	49	1	44 days	0.68	Williams	2000 EA ₅₀
2000 EC ₅₀	15.2	0.15	20000317	17.23690	340.48689	189.41459	1.75535	0.1039418	2.5403366	58	1	41 days	0.55	Williams	2000 EC ₅₀
2000 ED ₅₀	13.7	0.15	20000317	1.77405	181.57018	10.37922	9.33806	0.0306951	3.0778527	55	1	38 days	0.48	Williams	2000 ED ₅₀
2000 EE ₅₀	15.9	0.15	20000317	344.32607	165.81031	5.75346	13.35065	0.0975702	2.5902618	16	1	17 days	0.52	Williams	2000 EE ₅₀
2000 EF ₅₀	15.0	0.15	20000317	199.52555	202.01090	125.92720	11.76909	0.2208393	2.6146807	13	1	17 days	0.38	Williams	2000 EF ₅₀
2000 EK ₅₀	18.0	0.15	20000317	352.93891	52.74371	137.32896	24.87989	0.3137516	2.3149292	11	1	16 days	0.39	Williams	2000 EK ₅₀
2000 EO ₅₀	16.6	0.15	20000317	342.15473	41.43554	160.61402	2.77649	0.1348172	2.4433033	23	1	27 days	0.77	Williams	2000 EO ₅₀
2000 ER ₅₀	16.0	0.15	20000226	71.12713	264.00402	177.17274	4.09985	0.2225127	2.4243062	18	1	3 days	0.64	Williams	2000 ER ₅₀
2000 ES ₅₀	12.6	0.15	20000226	188.10529	275.65157	68.32424	11.03207	0.0719936	3.0611430	41	1	68 days	0.47	Williams	2000 ES ₅₀
2000 ET ₅₀	16.4	0.15	20000317	308.05317	148.23519	99.86745	13.20993	0.1100486	2.7993379	9	1	15 days	0.39	Williams	2000 ET ₅₀
2000 EU ₅₂	16.3	0.15	20000226	61.85339	100.38613	347.96797	6.02052	0.1374379	2.2311563	24	1	11 days	0.47	Williams	2000 EU ₅₂
2000 EA ₅₃	15.6	0.15	20000226	100.89649	241.05784	167.22617	4.33827	0.1486835	2.7469428	15	1	8 days	0.54	Williams	2000 EA ₅₃
2000 ER ₅₃	14.7	0.15	20000317	265.49194	265.97943	27.63553	2.13890	0.1165129	3.1465298	33	1	33 days	0.76	Williams	2000 ER ₅₃
2000 EE ₅₄	16.1	0.15	20000317	145.65623	222.10545	171.46547	2.97321	0.1008962	2.5616735	18	1	27 days	0.58	Williams	2000 EE ₅₄
2000 EG ₅₄	15.6	0.15	20000317	209.40417	276.18421	74.90555	4.97144	0.1260360	2.2191917	22	1	42 days	0.41	Williams	2000 EG ₅₄
2000 EK ₅₄	14.8	0.15	20000317	138.42124	292.60577	124.14395	5.96997	0.0441334	2.7144673	35	1	47 days	0.60	Williams	2000 EK ₅₄
2000 EQ ₅₄	15.1	0.15	20000317	230.99201	296.32320	34.97980	13.59104	0.0874470	2.5538385	15	1	29 days	0.59	Williams	2000 EQ ₅₄
2000 ES ₅₄	14.8	0.15	20000317	121.83751	26.81984	36.73398	13.78088	0.1151228	2.6368460	24	1	33 days	0.49	Williams	2000 ES ₅₄
2000 EX ₅₄	15.8	0.15	20000317	260.09363	242.54478	73.84063	6.10557	0.1902980	2.3315672	14	1	28 days	0.40	Williams	2000 EX ₅₄
2000 EC ₅₅	14.6	0.15	20000317	188.94331	217.62677	153.64236	8.47355	0.0807886	2.5794664	18	1	34 days	0.61	Williams	2000 EC ₅₅
2000 EF ₅₅	12.7	0.15	20000317	52.51664	323.18397	172.59583	14.37237	0.1261400	3.2090332	35	1	33 days	0.40	Williams	2000 EF ₅₅
2000 EG ₅₅	13.1	0.15	20000226	326.60006	178.11494	58.73984	9.85913	0.1161209	3.1726883	36	1	65 days	0.52	Williams	2000 EG ₅₅
2000 ES ₅₅	15.0	0.15	20000317	240.58695	140.63295	157.84066	1.98739	0.0702805	2.7739278	29	1	39 days	0.54	Williams	2000 ES ₅₅
2000 EZ ₅₅	17.2	0.15	20000317	39.55120	129.35108	343.27693	12.06246	0.0957333	2.5239904	18	1	34 days	0.48	Williams	2000 EZ ₅₅

E
M-v 4

M-v 5

2000 APR. 18

M.P.C. 40481

2000 EA ₅₆	16.2	0.15	20000206	47.60509	68.78024	20.33866	2.44894	0.1405561	2.3967018	29	1	39 days	0.44		Williams	2000 EA ₅₆	
2000 EB ₅₆	15.9	0.15	20000206	34.35193	114.09441	357.57830	5.46867	0.0761343	2.3296775	28	1	37 days	0.62		Williams	2000 EB ₅₆	
2000 EF ₅₆	13.3	0.15	20000226	156.74054	182.18331	182.76371	10.89334	0.1071350	3.0374514	11	1	5 days	0.24	E	Williams	2000 EF ₅₆	
2000 EG ₅₆	15.4	0.15	20000226	319.67348	52.42939	169.09051	6.14978	0.1536005	2.5523755	35	1	58 days	0.57		Williams	2000 EG ₅₆	
2000 EH ₅₆	14.5	0.15	20000317	41.54712	133.20740	346.12565	6.68299	0.1596203	2.5445742	20	1	34 days	0.40		Williams	2000 EH ₅₆	
2000 EL ₅₆	13.9	0.15	20000226	313.02693	54.98671	175.54170	13.39732	0.1277561	2.7004979	66	1	62 days	0.46	M-v	4	Williams	2000 EL ₅₆
2000 EM ₅₆	14.6	0.15	20000226	331.06334	25.88315	181.49443	1.28009	0.1274738	2.3997886	46	1	96 days	0.61	M-v	5	Williams	2000 EM ₅₆
2000 EN ₅₆	14.7	0.15	20000226	346.36374	21.61706	169.74377	14.74575	0.2121653	2.7179990	31	1	60 days	0.57	M-v	4	Williams	2000 EN ₅₆
2000 EP ₅₆	13.1	0.15	20000226	50.39637	335.60739	135.96040	2.39140	0.1250920	3.1329930	69	3	1997–2000	0.59	M-v	3	Williams	39492 2000 EP ₅₆
2000 ER ₅₆	14.4	0.15	20000226	326.95515	70.03881	143.70263	2.46526	0.1301126	2.4271651	57	3	1992–2000	0.43	M-v	3	Williams	39493 2000 ER ₅₆
2000 ET ₅₆	14.1	0.15	20000317	249.73839	297.36509	7.27588	12.38174	0.1680116	2.6805956	43	1	43 days	0.44		Williams	2000 ET ₅₆	
2000 EW ₅₆	14.3	0.15	20000317	281.55442	77.79164	192.53918	7.95774	0.1592619	3.1605466	25	1	39 days	0.43		Williams	2000 EW ₅₆	
2000 EX ₅₆	14.9	0.15	20000317	290.27128	60.16378	203.54706	4.52461	0.1761616	2.4503207	16	1	28 days	0.49		Williams	2000 EX ₅₆	
2000 EY ₅₆	16.1	0.15	20000317	60.36228	133.06103	327.83352	3.18643	0.1253608	2.2794293	36	1	41 days	0.82		Williams	2000 EY ₅₆	
2000 EA ₅₇	15.7	0.15	20000317	26.87732	304.68638	185.84473	7.41867	0.2653015	2.8773030	32	1	36 days	0.50		Williams	2000 EA ₅₇	
2000 EC ₅₇	14.8	0.15	20000317	279.03526	99.89854	180.32330	12.91168	0.1995139	2.7899840	35	1	33 days	0.74		Williams	2000 EC ₅₇	
2000 EG ₅₇	15.1	0.15	20000226	11.30228	300.43409	214.85811	0.69095	0.1234417	2.4239925	40	1	61 days	0.51	M-v	5	Williams	2000 EG ₅₇
2000 EH ₅₇	13.9	0.15	20000317	232.61999	314.71542	353.15958	21.77875	0.0386814	3.1866540	29	1	41 days	0.76		Williams	2000 EH ₅₇	
2000 EJ ₅₇	16.2	0.15	20000317	351.09102	199.20570	348.02892	5.34957	0.0858531	2.4154688	44	1	44 days	0.67		Williams	2000 EJ ₅₇	
2000 EN ₅₇	14.8	0.15	20000226	42.00901	297.63585	178.81457	11.59775	0.1494434	2.6866168	47	1	62 days	0.59	M-v	5	Williams	2000 EN ₅₇
2000 EO ₅₇	16.5	0.15	20000317	16.61324	230.36110	278.12613	0.58268	0.2582459	3.0456763	42	1	30 days	0.54		Williams	2000 EO ₅₇	
2000 EP ₅₇	15.5	0.15	20000317	301.13822	76.53565	177.89568	10.16969	0.1711899	2.6551612	30	1	33 days	0.67		Williams	2000 EP ₅₇	
2000 EQ ₅₇	15.9	0.15	20000317	332.68420	337.99081	237.64024	1.36348	0.1727863	2.2893272	51	1	36 days	0.53		Williams	2000 EQ ₅₇	
2000 ER ₅₇	13.6	0.15	20000226	179.46207	169.54183	185.76251	8.94169	0.0882549	3.1806505	50	1	59 days	0.58		Williams	2000 ER ₅₇	
2000 ET ₅₇	15.3	0.15	20000317	5.29589	328.42286	201.20582	4.55884	0.2114803	3.0322578	44	1	31 days	0.57		Williams	2000 ET ₅₇	
2000 EV ₅₇	14.4	0.15	20000226	234.14633	144.57185	162.87916	4.37189	0.1373744	2.2874810	21	1	8 days	0.77		Williams	2000 EV ₅₇	
2000 EW ₅₇	15.5	0.15	20000317	279.29009	312.77234	327.38101	2.76176	0.1852035	2.4092125	30	1	28 days	0.56		Williams	2000 EW ₅₇	
2000 EX ₅₇	16.9	0.15	20000317	332.88858	30.06390	178.88809	22.88759	0.0673024	2.3581949	20	1	31 days	0.57		Williams	2000 EX ₅₇	
2000 EZ ₅₇	15.1	0.15	20000317	175.18318	175.34080	188.11177	6.13692	0.0313692	2.7173464	29	1	30 days	0.51		Williams	2000 EZ ₅₇	
2000 EC ₅₈	16.4	0.15	20000317	204.66823	162.03266	174.09026	24.03731	0.0745315	1.8447417	29	1	39 days	0.51		Williams	2000 EC ₅₈	
2000 EH ₅₈	13.4	0.15	20000317	127.60893	28.76303	14.08170	8.80531	0.0963195	3.4928436	30	1	30 days	0.61		Williams	2000 EH ₅₈	
2000 EJ ₅₈	14.5	0.15	20000317	252.68514	350.35996	321.54588	2.78198	0.2625883	2.3788611	28	1	29 days	0.58		Williams	2000 EJ ₅₈	
2000 EK ₅₈	14.7	0.15	20000317	86.42834	94.59853	350.97841	8.13109	0.0583004	3.0851573	24	1	38 days	0.59		Williams	2000 EK ₅₈	
2000 EN ₅₈	16.6	0.15	20000317	352.69314	190.52575	0.07579	5.04224	0.1041734	2.3947099	45	1	42 days	0.74		Williams	2000 EN ₅₈	
2000 EO ₅₈	14.5	0.15	20000317	227.34841	149.62871	185.40811	5.33015	0.2848397	2.1786048	47	1	37 days	0.74		Williams	2000 EO ₅₈	
2000 EP ₅₈	15.7	0.15	20000317	291.08834	126.29166	146.29249	2.75672	0.1648546	2.3908831	33	1	33 days	0.67		Williams	2000 EP ₅₈	
2000 ET ₅₈	14.6	0.15	20000317	265.19329	275.27927	14.42900	8.94549	0.0731213	2.9778992	20	1	29 days	0.48		Williams	2000 ET ₅₈	
2000 EA ₅₉	15.0	0.15	20000206	24.46611	292.92502	172.31227	0.35354	0.1437096	3.1215941	28	1	37 days	0.56		Williams	2000 EA ₅₉	
2000 EC ₅₉	16.5	0.15	20000317	301.42314	283.03660	341.81099	2.05781	0.1969374	2.3552766	22	1	28 days	0.64		Williams	2000 EC ₅₉	
2000 EE ₅₉	15.1	0.15	20000317	304.85507	61.74829	197.42460	7.34728	0.1618599	3.0653271	36	1	30 days	0.37		Williams	2000 EE ₅₉	
2000 EF ₅₉	15.9	0.15	20000317	290.26794	76.52281	192.04653	14.46574	0.1080257	2.6989186	32	1	30 days	0.55		Williams	2000 EF ₅₉	
2000 EG ₅₉	15.6	0.15	20000317	339.82350	54.07066	161.41441	0.65724	0.1470910	3.0026799	63	1	37 days	0.59		Williams	2000 EG ₅₉	
2000 EK ₅₉	15.0	0.15	20000317	37.38183	135.42448	11.30959	10.71745	0.0562260	3.1183789	23	1	28 days	0.54		Williams	2000 EK ₅₉	
2000 EL ₅₉	15.0	0.15	20000317	235.57179	128.96552	191.43894	6.67369	0.1508111	2.2975345	25	1	29 days	0.61		Williams	2000 EL ₅₉	
2000 EP ₅₉	15.5	0.15	20000317	137.34151	9.72403	19.55114	2.16686	0.1875051	2.6704673	13	1	32 days	0.39		Williams	2000 EP ₅₉	
2000 ER ₅₉	15.8	0.15	20000317	332.20392	65.11045	151.86561	2.67702	0.1539351	3.0312299	26	1	27 days	0.50		Williams	2000 ER ₅₉	
2000 ES ₅₉	14.6	0.15	20000317	262.92541	132.17863	151.26057	2.51122	0.0586839	2.8634362	22	1	28 days	0.45		Williams	2000 ES ₅₉	
2000 EW ₅₉	15.4	0.15	20000317	99.21377	254.03674	162.90909	1.98905	0.2154877	2.3378926	15	1	27 days	0.49		Williams	2000 EW ₅₉	
2000 EX ₅₉	16.7	0.15	20000317	352.28987	14.44783	174.17049	5.18286	0.1133062	2.3776738	11	1	26 days	0.41		Williams	2000 EX ₅₉	
2000 EY ₅₉	17.2	0.15	20000317	20.74240	142.34318	1.32215	1.48473	0.2605833	3.0700543	23	1	34 days	0.41		Williams	2000 EY ₅₉	
2000 EZ ₅₉	15.0	0.15	20000317	157.07627	19.48898	359.46821	14.65295	0.0845565	2.6588692	46	1	41 days	0.62		Williams	2000 EZ ₅₉	
2000 EA ₆₀	16.0	0.15	20000317	40.17997	314.49689	177.90963	6.77058	0.0833156	2.4532611	26	1	27 days	0.56		Williams	2000 EA ₆₀	
2000 EB ₆₀	15.4	0.15	20000317	274.74495	102.53480	177.19059	9.77839	0.1305510	2.6522064	31	1	28 days	0.51		Williams	2000 EB ₆₀	

2000 EC ₆₀	17.3	0.15	20000317	21.75565	336.85751	175.32018	1.13338	0.1052639	2.2920184	28	1	31 days	0.60	Williams	2000 EC ₆₀
2000 ED ₆₀	17.2	0.15	20000317	324.61086	54.52213	172.63444	4.31313	0.1634005	2.2879518	21	1	27 days	0.41	Williams	2000 ED ₆₀
2000 EG ₆₀	14.4	0.15	20000317	333.75969	25.97585	182.00061	10.22429	0.0416810	2.9937961	45	1	33 days	0.57	Williams	2000 EG ₆₀
2000 EH ₆₀	17.0	0.15	20000317	103.92866	84.08868	350.59227	5.77747	0.0065277	2.2992298	21	1	27 days	0.51	Williams	2000 EH ₆₀
2000 EL ₆₀	16.8	0.15	20000317	312.51970	56.86536	184.63707	2.17629	0.1541033	2.3889315	30	1	26 days	0.55	Williams	2000 EL ₆₀
2000 EN ₆₀	15.3	0.15	20000317	5.44932	338.90311	194.86081	1.25267	0.0629606	2.9482474	27	1	27 days	0.36	Williams	2000 EN ₆₀
2000 EP ₆₀	15.1	0.15	20000317	304.76563	66.49011	181.10980	5.37198	0.1197332	3.1140213	29	1	28 days	0.55	Williams	2000 EP ₆₀
2000 ES ₆₀	16.7	0.15	20000317	321.48034	236.25249	345.71659	4.53748	0.0574186	2.1858830	23	1	26 days	0.41	Williams	2000 ES ₆₀
2000 ET ₆₀	16.6	0.15	20000317	11.13354	178.44506	346.48168	5.92277	0.1226869	2.2416406	18	1	25 days	0.52	Williams	2000 ET ₆₀
2000 EV ₆₀	16.5	0.15	20000317	3.88014	333.19119	202.14594	2.25338	0.0540531	2.6376245	25	1	31 days	0.55	Williams	2000 EV ₆₀
2000 EW ₆₀	16.9	0.15	20000317	10.13647	174.12158	350.86331	6.46234	0.1708233	2.5193879	22	1	28 days	0.62	Williams	2000 EW ₆₀
2000 EX ₆₀	14.0	0.15	20000317	194.64558	156.87550	194.77947	4.93208	0.2701150	2.5293079	16	1	27 days	0.41	Williams	2000 EX ₆₀
2000 EZ ₆₀	13.9	0.15	20000317	248.66559	306.17257	353.01556	9.52200	0.0701483	3.0413562	17	1	27 days	0.43	Williams	2000 EZ ₆₀
2000 EB ₆₁	14.2	0.15	20000317	72.94572	143.76505	308.57323	1.36670	0.1349741	3.1057643	18	1	27 days	0.51	Williams	2000 EB ₆₁
2000 EC ₆₁	17.2	0.15	20000317	75.81380	266.04392	191.14310	3.53236	0.0597861	2.2082702	21	1	34 days	0.48	Williams	2000 EC ₆₁
2000 EE ₆₁	16.3	0.15	20000317	329.03042	41.72069	184.41304	13.57401	0.2083263	2.6246995	32	1	28 days	0.41	Williams	2000 EE ₆₁
2000 EJ ₆₁	15.8	0.15	20000317	292.32312	275.22410	343.30179	5.96209	0.0960896	2.3564457	18	1	29 days	0.58	Williams	2000 EJ ₆₁
2000 EK ₆₁	14.0	0.15	20000317	141.83855	127.57174	268.43025	2.02033	0.0537035	3.3462079	23	1	28 days	0.59	Williams	2000 EK ₆₁
2000 EM ₆₁	14.8	0.15	20000317	54.94423	293.30709	185.37270	14.23194	0.0704514	2.8033792	20	1	27 days	0.53	Williams	2000 EM ₆₁
2000 ES ₆₁	14.6	0.15	20000317	139.44553	206.37218	184.63171	12.42232	0.1724614	2.7440840	22	1	27 days	0.41	Williams	2000 ES ₆₁
2000 EU ₆₁	16.0	0.15	20000317	337.20896	21.09319	188.10114	5.52923	0.1069551	2.5585033	27	1	28 days	0.66	Williams	2000 EU ₆₁
2000 EW ₆₁	14.6	0.15	20000317	357.80604	2.11363	182.22004	16.28453	0.0846545	3.1745024	23	1	28 days	0.65	Williams	2000 EW ₆₁
2000 EZ ₆₁	16.7	0.15	20000317	71.93127	275.74785	178.70543	4.92222	0.1185899	2.2571612	34	1	45 days	0.47	Williams	2000 EZ ₆₁
2000 EB ₆₂	15.1	0.15	20000317	323.18227	47.76434	183.08354	5.07940	0.1640308	3.0724556	19	1	27 days	0.54	Williams	2000 EB ₆₂
2000 EC ₆₂	14.5	0.15	20000317	214.92014	337.70006	354.01017	3.50349	0.0956749	2.7831588	20	1	27 days	0.39	Williams	2000 EC ₆₂
2000 EE ₆₂	15.4	0.15	20000317	325.90520	251.77987	357.96908	28.78963	0.3787462	2.5611477	21	1	32 days	0.70	Williams	2000 EE ₆₂
2000 EF ₆₂	15.0	0.15	20000317	2.59020	21.61573	155.48938	1.48718	0.1254347	3.1634053	17	1	27 days	0.46	Williams	2000 EF ₆₂
2000 EG ₆₂	14.8	0.15	20000317	267.03580	276.05358	18.81193	1.49851	0.1885644	3.0401673	35	1	31 days	0.63	Williams	2000 EG ₆₂
2000 EM ₆₂	14.0	0.15	20000226	43.96000	91.29056	34.67680	2.28860	0.0562773	2.9259595	53	2	1998–2000	0.56	M-v 4 Williams	39493 2000 EM ₆₂
2000 EO ₆₂	16.9	0.15	20000317	303.75883	232.90149	11.42987	6.46595	0.0970951	2.3042758	29	1	27 days	0.43	Williams	2000 EO ₆₂
2000 ER ₆₂	15.5	0.15	20000317	267.88122	287.23259	9.82984	7.79788	0.2376522	2.4589896	28	1	27 days	0.45	Williams	2000 ER ₆₂
2000 ES ₆₂	15.0	0.15	20000317	12.37141	146.26660	18.77285	4.32864	0.0634302	2.6849766	39	1	43 days	0.51	Williams	2000 ES ₆₂
2000 ET ₆₂	14.0	0.15	20000317	279.17323	110.69049	176.82831	25.88703	0.2302836	3.1960582	17	1	31 days	0.55	Williams	2000 ET ₆₂
2000 EX ₆₂	16.1	0.15	20000317	310.00594	77.26273	169.07722	7.62516	0.1683452	2.6358831	13	1	16 days	0.43	Williams	2000 EX ₆₂
2000 EY ₆₂	15.3	0.15	20000317	277.13821	141.74674	140.70992	1.68291	0.1749683	2.4267191	23	1	27 days	0.45	Williams	2000 EY ₆₂
2000 EZ ₆₂	16.5	0.15	20000317	12.47330	118.51036	47.15372	1.66027	0.0342460	2.1217409	18	1	27 days	0.48	Williams	2000 EZ ₆₂
2000 EA ₆₃	17.2	0.15	20000317	359.76326	20.31005	159.48312	4.15781	0.1711276	2.6539585	18	1	16 days	0.82	Williams	2000 EA ₆₃
2000 EB ₆₃	14.3	0.15	20000317	178.17923	213.85552	147.93156	2.64954	0.0879125	2.9059871	18	1	27 days	0.55	Williams	2000 EB ₆₃
2000 ED ₆₃	14.8	0.15	20000317	175.67342	196.91089	167.28414	5.09533	0.0426487	2.7667451	23	1	27 days	0.46	Williams	2000 ED ₆₃
2000 EH ₆₃	15.9	0.15	20000317	68.49660	70.02940	26.59305	3.08878	0.1281257	2.3515700	19	1	27 days	0.50	Williams	2000 EH ₆₃
2000 EJ ₆₃	16.5	0.15	20000317	321.64588	211.37924	21.09075	2.38834	0.1724082	2.3479243	45	1	43 days	0.62	Williams	2000 EJ ₆₃
2000 EL ₆₃	14.1	0.15	20000317	283.02821	225.01526	49.07369	1.97896	0.1438184	3.1101592	44	1	43 days	0.52	Williams	2000 EL ₆₃
2000 EM ₆₃	14.5	0.15	20000317	67.32345	358.91645	95.23943	1.74256	0.1689222	3.0994284	21	1	27 days	0.58	Williams	2000 EM ₆₃
2000 EP ₆₃	16.4	0.15	20000317	304.54747	87.91332	163.79545	5.75806	0.1560605	2.1960411	41	1	43 days	0.42	Williams	2000 EP ₆₃
2000 ER ₆₃	14.1	0.15	20000226	175.20056	352.45971	8.52971	13.56036	0.1784327	2.6381837	39	1	55 days	0.39	Williams	2000 ER ₆₃
2000 EV ₆₃	14.9	0.15	20000317	256.43968	125.88769	172.02068	14.76172	0.1208488	2.6714662	33	1	31 days	0.43	Williams	2000 EV ₆₃
2000 EB ₆₄	15.6	0.15	20000317	275.92958	279.24660	10.44564	5.37365	0.2196351	2.4022880	18	1	27 days	0.46	Williams	2000 EB ₆₄
2000 EC ₆₄	15.3	0.15	20000317	196.14268	332.84710	16.88103	3.31025	0.1803787	2.2954303	24	1	28 days	0.43	Williams	2000 EC ₆₄
2000 EE ₆₄	16.7	0.15	20000317	49.41914	39.82360	73.51658	0.97180	0.1778660	2.3107944	19	1	33 days	0.60	Williams	2000 EE ₆₄
2000 EJ ₆₄	16.3	0.15	20000317	342.18157	30.47568	174.10746	3.23089	0.1347164	2.5193677	18	1	27 days	0.49	Williams	2000 EJ ₆₄
2000 EQ ₆₄	14.3	0.15	20000317	184.81401	164.97544	192.78536	8.28663	0.0460841	2.9789525	23	1	28 days	0.36	Williams	2000 EQ ₆₄
2000 ET ₆₄	14.3	0.15	20000317	169.30941	185.10055	186.70118	19.52021	0.0746556	3.1458761	23	1	27 days	0.52	Williams	2000 ET ₆₄
2000 EU ₆₄	15.6	0.15	20000317	347.83721	286.51334	269.15003	0.60880	0.0835235	2.5582664	33	1	30 days	0.54	Williams	2000 EU ₆₄

2000 EV ₆₄	15.2	0.15	20000317	302.76469	263.90092	351.55711	3.40989	0.1556748	2.7979051	25	1	41 days	0.54	Williams	2000 EV ₆₄
2000 EX ₆₄	16.0	0.15	20000317	300.52206	76.24146	180.66045	4.70337	0.1509365	2.3689540	24	1	28 days	0.53	Williams	2000 EX ₆₄
2000 EB ₆₅	14.5	0.15	20000317	53.17374	298.95931	189.67040	9.48553	0.0155318	3.0013922	33	1	28 days	0.49	Williams	2000 EB ₆₅
2000 EC ₆₅	14.3	0.15	20000317	161.43401	63.76066	314.90321	0.86340	0.0967070	2.8759219	26	1	27 days	0.53	Williams	2000 EC ₆₅
2000 ED ₆₅	14.9	0.15	20000317	207.54377	73.86897	269.72829	1.75333	0.1764539	2.6116540	21	1	27 days	0.43	Williams	2000 ED ₆₅
2000 EH ₆₅	15.8	0.15	20000317	304.78031	68.05873	187.22064	6.52036	0.1669182	2.3202944	35	1	37 days	0.36	Williams	2000 EH ₆₅
2000 EJ ₆₅	14.7	0.15	20000317	246.36278	320.38096	353.96051	5.42280	0.1765767	2.6499988	25	1	27 days	0.55	Williams	2000 EJ ₆₅
2000 EK ₆₅	15.0	0.15	20000317	245.95619	122.58280	195.41937	3.83245	0.2165649	2.5786777	25	1	28 days	0.48	Williams	2000 EK ₆₅
2000 EM ₆₅	16.4	0.15	20000317	326.47520	229.75305	356.15231	5.13383	0.1347778	2.3694610	15	1	26 days	0.49	Williams	2000 EM ₆₅
2000 EN ₆₅	15.2	0.15	20000317	208.91168	339.03298	359.95083	11.71216	0.0657504	2.9445347	22	1	31 days	0.37	Williams	2000 EN ₆₅
2000 EP ₆₅	16.1	0.15	20000317	0.52581	181.76377	359.49852	2.78582	0.1266141	2.6196629	25	1	28 days	0.56	Williams	2000 EP ₆₅
2000 EQ ₆₅	15.3	0.15	20000317	157.09513	201.66725	181.64147	9.73440	0.0439765	2.4152681	24	1	28 days	0.63	Williams	2000 EQ ₆₅
2000 EU ₆₅	15.5	0.15	20000317	32.26666	350.38440	154.47715	1.16202	0.0921707	3.0111503	29	1	40 days	0.84	Williams	2000 EU ₆₅
2000 EW ₆₅	16.4	0.15	20000317	278.71355	122.35874	164.18694	0.91989	0.2070861	2.2504448	31	1	41 days	0.59	Williams	2000 EW ₆₅
2000 EY ₆₅	14.6	0.15	20000317	57.51935	45.31320	65.29326	1.65997	0.1339786	3.0989370	19	1	27 days	0.45	Williams	2000 EY ₆₅
2000 EB ₆₆	14.8	0.15	20000317	286.50981	152.43225	121.24179	2.32360	0.1664285	2.3864463	13	1	19 days	0.33	Williams	2000 EB ₆₆
2000 EC ₆₆	16.3	0.15	20000317	18.28536	139.64161	16.81840	6.20176	0.1379151	2.4292993	23	1	27 days	0.45	Williams	2000 EC ₆₆
2000 EE ₆₆	15.7	0.15	20000317	15.23279	152.23974	8.52778	13.25194	0.1375764	2.6468671	65	1	43 days	0.55	Williams	2000 EE ₆₆
2000 EJ ₆₆	15.3	0.15	20000317	348.89567	176.60191	19.57596	6.24183	0.1176284	3.0523201	28	1	28 days	0.49	Williams	2000 EJ ₆₆
2000 EK ₆₆	16.4	0.15	20000317	334.26757	197.96948	15.42800	6.73518	0.1127290	2.4690779	21	1	28 days	0.51	Williams	2000 EK ₆₆
2000 EL ₆₆	13.7	0.15	20000317	253.39788	184.67586	120.95304	2.99579	0.1578597	3.2014944	25	1	32 days	0.66	Williams	2000 EL ₆₆
2000 EM ₆₆	15.6	0.15	20000317	325.30061	117.57180	107.26270	2.33052	0.1176032	2.4339228	46	1	38 days	0.62	Williams	2000 EM ₆₆
2000 EN ₆₆	14.4	0.15	20000317	166.97947	2.18487	10.38775	15.61214	0.1056958	2.5705153	47	1	43 days	0.58	Williams	2000 EN ₆₆
2000 EO ₆₆	14.4	0.15	20000317	240.87869	242.14682	63.02327	3.13170	0.0362803	2.8844002	46	1	36 days	0.57	Williams	2000 EO ₆₆
2000 EP ₆₆	13.5	0.15	20000317	290.69309	214.01773	42.95478	3.95426	0.0459141	3.0411650	15	1	29 days	0.50	Williams	2000 EP ₆₆
2000 EQ ₆₆	15.9	0.15	20000317	291.05317	153.76172	116.16882	2.58933	0.1695136	2.4053578	40	1	43 days	0.47	Williams	2000 EQ ₆₆
2000 ER ₆₆	14.2	0.15	20000317	146.35439	327.68187	64.10503	2.88733	0.0797305	2.8929195	42	1	43 days	0.54	Williams	2000 ER ₆₆
2000 ES ₆₆	16.3	0.15	20000317	343.01770	34.56446	172.65097	13.95047	0.1897215	2.6830981	34	1	31 days	0.72	Williams	2000 ES ₆₆
2000 EW ₆₆	14.5	0.15	20000317	346.51774	149.53240	52.75166	1.41009	0.1512694	3.1621853	33	1	33 days	0.49	Williams	2000 EW ₆₆
2000 EX ₆₆	16.0	0.15	20000317	307.87636	243.07168	7.87349	12.78873	0.1556534	2.6498763	30	1	28 days	0.49	Williams	2000 EX ₆₆
2000 EY ₆₆	14.3	0.15	20000317	121.16655	231.17317	181.66389	17.25524	0.1236317	3.3958526	23	1	27 days	0.51	Williams	2000 EY ₆₆
2000 EZ ₆₆	15.9	0.15	20000317	214.48528	177.04701	158.93522	1.53153	0.1219926	2.2311221	19	1	27 days	0.73	Williams	2000 EZ ₆₆
2000 EA ₆₇	15.1	0.15	20000317	21.77310	130.70425	27.44433	1.27831	0.0918334	3.0512632	27	1	28 days	0.51	Williams	2000 EA ₆₇
2000 EB ₆₇	17.0	0.15	20000317	314.81407	57.31381	188.70011	5.25208	0.1919134	2.3589540	28	1	34 days	0.50	Williams	2000 EB ₆₇
2000 EE ₆₇	15.0	0.15	20000317	265.36161	88.40091	192.80540	12.38573	0.0162971	2.7214314	27	1	28 days	0.52	Williams	2000 EE ₆₇
2000 EG ₆₇	14.4	0.15	20000317	90.01391	145.73669	297.40412	2.02325	0.1085804	3.0635162	22	1	27 days	0.44	Williams	2000 EG ₆₇
2000 EH ₆₇	14.7	0.15	20000317	147.48111	171.30372	222.55545	1.42787	0.0650939	2.8175945	28	1	28 days	0.63	Williams	2000 EH ₆₇
2000 EK ₆₇	14.3	0.15	20000317	246.84849	330.33056	339.33055	3.37481	0.1087868	2.7480239	16	1	27 days	0.47	Williams	2000 EK ₆₇
2000 EL ₆₇	16.0	0.15	20000317	310.38157	297.50506	308.38006	1.15486	0.1246651	2.3364121	29	1	29 days	0.55	Williams	2000 EL ₆₇
2000 EO ₆₇	16.1	0.15	20000317	31.42898	324.47736	185.99776	6.30990	0.0386088	2.3341380	35	1	29 days	0.59	Williams	2000 EO ₆₇
2000 EP ₆₇	17.7	0.15	20000317	351.63049	14.59645	182.20300	7.68498	0.2197321	2.4146419	18	1	26 days	0.44	Williams	2000 EP ₆₇
2000 EQ ₆₇	16.7	0.15	20000317	348.70447	208.39249	350.21975	0.97919	0.1218262	2.3795777	19	1	27 days	0.58	Williams	2000 EQ ₆₇
2000 ET ₆₇	15.3	0.15	20000317	42.67398	300.44372	185.23388	17.51578	0.1917209	3.0947732	38	1	31 days	0.69	Williams	2000 ET ₆₇
2000 EA ₆₈	14.6	0.15	20000317	252.97760	122.69937	179.43300	14.37234	0.1305872	3.2058356	21	1	40 days	0.49	Williams	2000 EA ₆₈
2000 EE ₆₈	15.0	0.15	20000317	71.01630	89.07918	7.89964	10.38951	0.1215741	3.0028947	21	1	27 days	0.64	Williams	2000 EE ₆₈
2000 EG ₆₈	16.1	0.15	20000317	13.44272	160.08984	2.97946	1.34492	0.1446484	2.4181646	21	1	27 days	0.38	Williams	2000 EG ₆₈
2000 EK ₆₈	14.8	0.15	20000317	329.98596	189.80904	28.12450	2.04089	0.0566630	2.9489159	30	1	31 days	0.67	Williams	2000 EK ₆₈
2000 EP ₆₈	15.3	0.15	20000317	335.60200	214.13395	4.36162	4.90006	0.1630627	3.0714917	20	1	27 days	0.67	Williams	2000 EP ₆₈
2000 EQ ₆₈	14.6	0.15	20000317	299.90106	72.91496	185.29797	12.61623	0.1086536	3.2148347	30	1	31 days	0.56	Williams	2000 EQ ₆₈
2000 ER ₆₈	14.6	0.15	20000317	154.92226	243.09584	142.02356	2.74331	0.0286290	2.8751886	23	1	31 days	0.42	Williams	2000 ER ₆₈
2000 ET ₆₈	15.2	0.15	20000317	247.14952	149.10399	161.21308	1.19289	0.1220519	2.5274003	22	1	28 days	0.42	Williams	2000 ET ₆₈
2000 EV ₆₈	15.4	0.15	20000317	265.36348	279.56617	10.92732	6.48911	0.1040153	2.3546613	45	1	38 days	0.49	Williams	2000 EV ₆₈
2000 EY ₆₈	13.9	0.15	20000317	215.32681	275.21340	58.38687	3.27370	0.0702951	2.9382724	28	1	31 days	0.55	Williams	2000 EY ₆₈

2000 EZ ₆₈	15.6	0.15	20000317	45.70157	355.81405	136.61046	2.36314	0.0742973	2.5504215	25	1	31 days	0.59		Williams	2000 EZ ₆₈
2000 EB ₆₉	16.3	0.15	20000317	296.81303	240.16969	22.37298	5.59603	0.1370882	2.3837149	22	1	27 days	0.46		Williams	2000 EB ₆₉
2000 EC ₆₉	15.3	0.15	20000317	68.10609	286.25707	170.60639	9.58119	0.1843937	2.7824645	21	1	25 days	0.57		Williams	2000 EC ₆₉
2000 EG ₆₉	14.0	0.15	20000317	224.71059	283.01137	44.78714	2.73812	0.0749594	2.9087362	41	1	31 days	0.56		Williams	2000 EG ₆₉
2000 EH ₆₉	14.3	0.15	20000317	18.74991	334.84044	190.99423	9.70765	0.0568367	3.0107626	28	1	28 days	0.48		Williams	2000 EH ₆₉
2000 EJ ₆₉	13.8	0.15	20000317	57.99574	117.82305	357.51323	5.07095	0.1317125	3.1804345	43	1	31 days	0.51		Williams	2000 EJ ₆₉
2000 EM ₆₉	13.6	0.15	20000226	39.97490	121.30070	5.75821	15.76069	0.1718915	3.0640340	50	1	62 days	0.47	M-v 5	Williams	2000 EM ₆₉
2000 EO ₆₉	16.1	0.15	20000317	357.19196	194.18305	355.51247	2.34706	0.1175218	2.7138631	33	1	28 days	0.46		Williams	2000 EO ₆₉
2000 EP ₆₉	13.9	0.15	20000317	211.66788	156.95125	187.22194	27.53648	0.1441133	3.1635092	31	1	27 days	0.61		Williams	2000 EP ₆₉
2000 EQ ₆₉	14.9	0.15	20000226	309.80138	242.87876	4.70031	7.68099	0.1843370	2.3350287	51	1	62 days	0.40	M-v 5	Williams	2000 EQ ₆₉
2000 ER ₆₉	15.8	0.15	20000317	318.33224	61.68463	179.88534	7.85942	0.1534169	2.6013267	42	1	34 days	0.62		Williams	2000 ER ₆₉
2000 ES ₆₉	15.8	0.15	20000226	331.70366	212.38640	4.77225	1.99225	0.1608080	2.3675690	53	1	62 days	0.61	M-v 5	Williams	2000 ES ₆₉
2000 EU ₆₉	15.6	0.15	20000317	342.68205	24.93843	185.80799	6.71811	0.1367023	3.0484266	42	1	31 days	0.59		Williams	2000 EU ₆₉
2000 EV ₆₉	15.0	0.15	20000317	261.56175	283.00436	12.23039	9.61575	0.0711714	3.1363321	24	1	27 days	0.49		Williams	2000 EV ₆₉
2000 EW ₆₉	14.7	0.15	20000317	48.32131	296.00458	186.53409	15.96225	0.1782008	3.1270495	27	1	32 days	0.70		Williams	2000 EW ₆₉
2000 EX ₆₉	15.4	0.15	20000317	113.22280	254.08778	179.33397	2.03941	0.0195446	2.9188747	28	1	33 days	0.49		Williams	2000 EX ₆₉
2000 EY ₆₉	14.7	0.15	20000317	30.72510	137.00514	17.56116	3.78672	0.0444580	2.8014210	32	1	31 days	0.53		Williams	2000 EY ₆₉
2000 EA ₇₀	16.1	0.15	20000317	37.70191	275.59333	224.39486	1.96070	0.1135093	2.3705002	41	1	31 days	0.56		Williams	2000 EA ₇₀
2000 EE ₇₀	16.9	0.15	20000317	358.07630	15.94433	170.49171	2.20582	0.1075023	2.3084847	32	1	40 days	0.64		Williams	2000 EE ₇₀
2000 EF ₇₀	14.6	0.15	20000317	68.43241	90.11805	12.12762	14.26458	0.1255560	2.8964079	32	1	31 days	0.51		Williams	2000 EF ₇₀
2000 EH ₇₀	14.3	0.15	20000317	98.92014	42.41184	31.89648	5.06485	0.1090162	3.2136997	34	1	28 days	0.59		Williams	2000 EH ₇₀
2000 EL ₇₀	15.0	0.15	20000317	198.11810	353.14540	0.10124	7.33285	0.1415687	2.3237707	26	1	28 days	0.65		Williams	2000 EL ₇₀
2000 EM ₇₀	16.6	0.15	20000317	347.87282	356.58829	203.74553	2.26324	0.0799543	2.4073817	29	1	29 days	0.43		Williams	2000 EM ₇₀
2000 EO ₇₀	15.4	0.15	20000317	98.68832	234.56347	194.85080	7.41469	0.1958861	2.7511072	25	1	33 days	0.69		Williams	2000 EO ₇₀
2000 EQ ₇₀	14.0	0.15	20000317	176.17012	184.38603	186.26563	14.76038	0.1309942	2.7062005	17	1	27 days	0.50		Williams	2000 EQ ₇₀
2000 ES ₇₀	17.1	0.15	20000226	35.50180	281.33029	177.90347	25.43373	0.3193536	1.8082590	121	1	36 days	0.57	M-v 5	Williams	2000 ES ₇₀
2000 ET ₇₀	18.2	0.15	20000226	122.38670	46.40532	331.23501	22.32989	0.1235402	0.9468593	116	1	34 days	0.49	M-v 5	Williams	2000 ET ₇₀
2000 EV ₇₀	19.7	0.15	20000226	36.58831	314.81597	108.63746	1.39431	0.5314567	1.2086332	105	1	29 days	0.77	M-v 7	Williams	2000 EV ₇₀
2000 EW ₇₀	21.1	0.15	20000226	245.39794	125.47221	178.41928	5.46157	0.3204570	0.9362579	281	1	16 days	0.64	M-v 6	Williams	39644 2000 EW ₇₀
2000 EY ₇₀	14.8	0.15	20000317	193.55758	245.21592	106.93512	8.65113	0.1361103	2.3771937	32	1	34 days	0.48		Williams	2000 EY ₇₀
2000 EZ ₇₀	14.2	0.15	20000317	238.95936	204.39672	113.74065	10.67657	0.1628320	2.7553089	29	1	28 days	0.50		Williams	2000 EZ ₇₀
2000 ES ₇₁	16.7	0.15	20000317	310.57300	253.89981	346.03685	5.87691	0.1445327	2.2956745	21	1	27 days	0.66		Williams	2000 ES ₇₁
2000 EZ ₇₃	16.1	0.15	20000226	331.56522	176.20178	25.64602	0.59382	0.1087510	2.7513685	19	1	11 days	0.54		Williams	2000 EZ ₇₃
2000 EF ₇₄	13.7	0.15	20000317	96.98271	298.54012	157.75403	9.22928	0.0510670	2.9936404	37	1	47 days	0.44		Williams	2000 EF ₇₄
2000 EN ₇₄	13.8	0.15	20000317	217.97672	280.63933	62.74138	7.48319	0.0778542	2.7381591	32	1	36 days	0.88		Williams	2000 EN ₇₄
2000 ET ₇₄	16.3	0.15	20000226	281.52793	275.49173	347.36852	13.28965	0.1737462	2.6181281	15	1	14 days	0.29		Williams	2000 ET ₇₄
2000 EW ₇₄	16.7	0.15	20000317	307.43517	272.00050	335.66003	0.42589	0.1336463	2.4049305	18	1	26 days	0.30		Williams	2000 EW ₇₄
2000 EJ ₇₅	15.2	0.15	20000226	23.21642	305.27702	189.54909	23.43502	0.2379034	2.2632775	47	1	76 days	0.45	M-v 4	Williams	2000 EJ ₇₅
2000 EK ₇₅	14.1	0.15	20000317	263.47686	75.90553	218.42306	14.30628	0.1896844	2.6538120	20	1	34 days	0.74		Williams	2000 EK ₇₅
2000 EM ₇₅	16.6	0.15	20000317	24.60755	138.28607	357.91454	23.73913	0.2536792	2.2968654	40	1	27 days	0.53		Williams	2000 EM ₇₅
2000 EN ₇₅	13.6	0.15	20000226	39.16721	290.40460	203.21975	19.62852	0.2118306	3.1979501	45	1	68 days	0.42	M-v 5	Williams	2000 EN ₇₅
2000 EO ₇₅	14.6	0.15	20000317	125.17518	24.64354	343.25958	23.56380	0.2158707	2.3657180	16	1	29 days	0.65		Williams	2000 EO ₇₅
2000 EP ₇₅	14.9	0.15	20000226	319.51109	102.01976	105.62758	8.56428	0.1871896	2.8165187	18	1	8 days	0.53		Williams	2000 EP ₇₅
2000 EW ₇₅	15.5	0.15	20000226	303.74616	208.06599	13.89495	5.99102	0.1151260	2.2755371	39	3	1960-2000	0.55	M-v 4	Williams	39493 2000 EW ₇₅
2000 EB ₇₆	16.8	0.15	20000206	44.22877	79.59285	11.09593	5.48149	0.1435757	2.2718851	25	1	38 days	0.61		Williams	2000 EB ₇₆
2000 EC ₇₆	16.6	0.15	20000226	330.55852	169.37472	31.22201	5.29910	0.2038803	2.6148894	26	1	45 days	0.51		Williams	2000 EC ₇₆
2000 ER ₇₆	12.8	0.15	20000226	63.77705	65.40764	26.45111	10.01992	0.0241322	2.9790420	34	1	61 days	0.28	M-v 4	Williams	2000 ER ₇₆
2000 EK ₇₇	14.8	0.15	20000226	54.29968	334.44735	124.44868	12.47795	0.0661660	3.0435533	17	1	24 days	0.56		Williams	2000 EK ₇₇
2000 EX ₇₇	15.3	0.15	20000226	31.06109	346.24799	127.61122	3.41328	0.1610300	2.3968125	13	1	7 days	0.27	E	Williams	2000 EX ₇₇
2000 EH ₇₈	15.9	0.15	20000226	4.63646	104.03479	46.03261	2.51754	0.2166752	3.1896245	22	1	30 days	0.39		Williams	2000 EH ₇₈
2000 EL ₇₈	14.4	0.15	20000226	75.30922	85.62054	351.80217	16.54360	0.0295571	3.0653985	13	1	7 days	0.30		Williams	2000 EL ₇₈
2000 EP ₇₈	14.4	0.15	20000226	26.75228	28.13394	98.71827	4.38558	0.0632549	2.6103623	64	1	62 days	0.51	M-v 4	Williams	2000 EP ₇₈
2000 EQ ₇₈	12.7	0.15	20000226	58.39165	304.92799	139.13016	11.11651	0.1412419	3.1738943	83	1	140 days	0.47	M-v 4	Williams	2000 EQ ₇₈

2000 APR. 18

M.P.C. 40485

2000 ET ₇₈	15.8	0.15	20000226	312.39887	133.59691	88.47623	3.09028	0.1763015	2.3959079	31	1	52 days	0.54	Williams	2000 ET ₇₈
2000 EU ₇₈	14.6	0.15	20000226	14.88821	74.13824	67.12758	3.10423	0.0458247	2.9214551	30	1	52 days	0.80	Williams	2000 EU ₇₈
2000 EX ₇₈	14.8	0.15	20000226	175.44221	298.06740	44.65457	2.71321	0.0350659	2.9834153	18	1	10 days	0.38	Williams	2000 EX ₇₈
2000 EJ ₇₉	15.9	0.15	20000226	313.90682	201.44745	11.29938	6.62882	0.0922601	2.2630200	27	1	52 days	0.46	Williams	2000 EJ ₇₉
2000 EM ₇₉	15.8	0.15	20000226	309.45337	204.25771	12.45875	6.19785	0.0790634	2.4100849	30	1	59 days	0.44	Williams	2000 EM ₇₉
2000 EU ₇₉	15.4	0.15	20000226	197.44037	309.36219	14.92397	6.32833	0.0748352	2.7682601	16	1	10 days	0.66	Williams	2000 EU ₇₉
2000 EX ₇₉	15.4	0.15	20000226	101.25824	321.95187	83.06727	4.27718	0.1121820	2.1882813	35	3	1992–2000	0.50	M-v 3 Williams	39493 2000 EX ₇₉
2000 EZ ₇₉	15.6	0.15	20000317	252.61771	190.28879	99.00115	4.70271	0.1704979	2.2519807	15	1	29 days	0.42	Williams	2000 EZ ₇₉
2000 EB ₈₀	14.5	0.15	20000226	9.73604	131.85324	15.66955	5.16604	0.1061612	3.1873774	26	1	46 days	0.48	Williams	2000 EB ₈₀
2000 EC ₈₀	15.7	0.15	20000226	94.37607	60.83892	352.21949	14.12673	0.1077560	2.5441114	18	1	10 days	0.63	Williams	2000 EC ₈₀
2000 EK ₈₀	14.1	0.15	20000226	63.49721	61.08271	24.24427	5.28707	0.1018227	3.2299098	30	1	59 days	0.41	Williams	2000 EK ₈₀
2000 EQ ₈₀	16.8	0.15	20000317	313.62698	189.14269	35.31032	4.03563	0.1252800	2.3169799	19	1	32 days	0.37	Williams	2000 EQ ₈₀
2000 ET ₈₁	14.8	0.15	20000226	207.46394	246.19640	74.48052	3.88391	0.0840488	2.4787685	26	1	52 days	0.58	Williams	2000 ET ₈₁
2000 EV ₈₁	15.5	0.15	20000317	208.31058	236.41106	93.26386	4.21146	0.2220153	2.2530888	18	1	29 days	0.51	Williams	2000 EV ₈₁
2000 EP ₈₂	14.5	0.15	20000226	108.65740	30.44320	11.71500	13.99504	0.1477113	2.6169472	35	1	67 days	0.77	M-v 5 Williams	2000 EP ₈₂
2000 EU ₈₂	15.1	0.15	20000226	339.66098	81.33131	110.75857	7.15995	0.1653449	2.4114112	32	1	64 days	0.40	M-v 4 Williams	2000 EU ₈₂
2000 EY ₈₂	14.1	0.15	20000317	305.77376	222.42460	13.36870	17.37664	0.1289857	3.1728339	21	1	29 days	0.47	Williams	2000 EY ₈₂
2000 EZ ₈₂	14.1	0.15	20000317	280.82138	247.08562	19.06410	13.12065	0.1536648	2.6615837	18	1	29 days	0.50	Williams	2000 EZ ₈₂
2000 EA ₈₃	13.4	0.15	20000317	135.68113	341.70855	44.97492	10.10816	0.0877565	3.1788081	16	1	23 days	0.47	Williams	2000 EA ₈₃
2000 EC ₈₃	14.3	0.15	20000226	42.61449	31.95475	80.03194	6.33667	0.1136755	3.2091394	30	1	88 days	0.47	M-v 4 Williams	2000 EC ₈₃
2000 EE ₈₃	13.8	0.15	20000226	334.01741	169.09196	24.12190	12.89820	0.0391054	2.9440564	26	1	64 days	0.49	M-v 4 Williams	2000 EE ₈₃
2000 ER ₈₃	13.6	0.15	20000226	25.15943	126.57255	10.53979	18.60556	0.0656671	2.6465566	42	1	93 days	0.51	M-v 4 Williams	2000 ER ₈₃
2000 ET ₈₃	15.5	0.15	20000317	331.95402	189.44106	24.30809	14.07619	0.1762520	2.5832236	27	1	32 days	0.79	Williams	2000 ET ₈₃
2000 EB ₈₄	16.5	0.15	20000317	312.63374	169.91920	62.94603	3.07273	0.1802878	2.3858034	25	1	32 days	0.64	Williams	2000 EB ₈₄
2000 EK ₈₄	13.6	0.15	20000226	342.06469	110.33015	72.50369	2.97808	0.0652362	2.9484096	53	2	1998–2000	0.61	M-v 3 Williams	39493 2000 EK ₈₄
2000 ER ₈₄	16.2	0.15	20000226	352.04917	308.37383	218.18720	6.20649	0.1844413	2.5450959	33	1	57 days	0.54	Williams	2000 ER ₈₄
2000 ES ₈₄	15.2	0.15	20000226	334.75888	342.28109	206.01843	6.53275	0.1300592	2.2575234	43	3	1997–2000	0.61	M-v 3 Williams	39493 2000 ES ₈₄
2000 EV ₈₄	14.1	0.15	20000317	202.41277	151.77645	173.66467	18.63833	0.1791349	2.7144777	17	1	31 days	0.51	Williams	2000 EV ₈₄
2000 EW ₈₄	15.2	0.15	20000317	233.29351	338.54048	319.09098	8.55078	0.0744381	2.2604911	19	1	27 days	0.59	Williams	2000 EW ₈₄
2000 EX ₈₄	14.3	0.15	20000206	149.01836	84.78379	265.13562	12.20964	0.2329444	2.5471629	22	1	35 days	0.54	Williams	2000 EX ₈₄
2000 ED ₈₅	14.4	0.15	20000226	311.78463	349.79850	214.45349	10.87798	0.0188587	2.9019092	29	1	49 days	0.49	Williams	2000 ED ₈₅
2000 EE ₈₅	14.7	0.15	20000226	35.46663	186.53522	286.43856	11.76330	0.1065566	2.6680421	32	1	63 days	0.52	M-v 4 Williams	2000 EE ₈₅
2000 EF ₈₅	12.8	0.15	20000226	345.38043	256.37129	277.13821	9.64317	0.0724673	3.0552287	54	1	112 days	0.52	M-v 3 Williams	2000 EF ₈₅
2000 EK ₈₅	14.8	0.15	20000226	318.19823	109.70230	129.45521	8.57714	0.2808824	2.2629073	34	1	59 days	0.44	Williams	2000 EK ₈₅
2000 EL ₈₅	15.8	0.15	20000317	354.82127	283.25520	246.00025	6.27554	0.0496230	2.3411286	17	1	27 days	0.60	Williams	2000 EL ₈₅
2000 EP ₈₅	14.0	0.15	20000226	258.31606	25.59243	243.13644	8.84030	0.0543442	3.0487249	37	2	1998–2000	0.69	M-v 4 Williams	39494 2000 EP ₈₅
2000 ES ₈₅	14.7	0.15	20000317	219.45027	185.45037	137.58712	3.91569	0.0474392	2.4018481	47	1	43 days	0.61	Williams	2000 ES ₈₅
2000 EW ₈₅	14.6	0.15	20000317	81.56379	34.70880	59.05726	4.34864	0.0564038	2.7763035	41	1	43 days	0.45	Williams	2000 EW ₈₅
2000 EX ₈₅	15.7	0.15	20000317	7.17036	27.12207	144.43233	4.41752	0.1493239	2.5621999	41	1	43 days	0.48	Williams	2000 EX ₈₅
2000 EY ₈₅	14.0	0.15	20000317	110.02582	33.42233	35.60392	5.53508	0.0275378	2.7487352	28	1	35 days	0.49	Williams	2000 EY ₈₅
2000 EZ ₈₅	15.4	0.15	20000317	312.03055	215.40708	23.72449	7.33642	0.1094662	2.2589312	41	1	36 days	0.73	Williams	2000 EZ ₈₅
2000 EA ₈₆	14.8	0.15	20000317	351.14878	88.04510	106.23401	3.53708	0.1297506	2.4680812	38	1	36 days	0.41	Williams	2000 EA ₈₆
2000 EC ₈₆	12.5	0.15	20000317	185.34163	196.92700	164.22601	15.75790	0.1026879	3.1082417	22	1	30 days	0.46	Williams	2000 EC ₈₆
2000 ED ₈₆	13.2	0.15	20000317	230.37326	173.51119	154.43195	9.61154	0.1665982	2.6204704	35	1	38 days	0.67	Williams	2000 ED ₈₆
2000 EE ₈₆	13.6	0.15	20000317	103.83501	274.34889	151.93368	9.74236	0.1527108	2.8111956	26	1	31 days	0.64	Williams	2000 EE ₈₆
2000 EF ₈₆	14.3	0.15	20000226	313.90806	98.34111	141.67186	6.56470	0.1787156	2.3319587	57	1	65 days	0.52	M-v 4 Williams	2000 EF ₈₆
2000 EG ₈₆	13.6	0.15	20000226	308.35446	320.42273	273.22774	4.40432	0.1446534	3.1365070	38	1	66 days	0.57	M-v 4 Williams	2000 EG ₈₆
2000 EN ₈₆	13.7	0.15	20000226	322.81672	35.68498	182.98251	16.92118	0.1685130	3.1364663	42	1	60 days	0.53	M-v 4 Williams	2000 EN ₈₆
2000 EO ₈₆	13.0	0.15	20000317	154.85006	181.69052	187.85866	12.26572	0.1973421	2.6924353	20	1	31 days	0.41	Williams	2000 EO ₈₆
2000 EP ₈₆	17.1	0.15	20000317	345.39006	11.64205	185.15972	9.82014	0.2136016	2.4241412	24	1	37 days	0.66	Williams	2000 EP ₈₆
2000 EU ₈₆	15.7	0.15	20000317	21.07590	261.50360	244.07228	2.57412	0.1659471	2.3551836	24	1	31 days	0.38	Williams	2000 EU ₈₆
2000 EW ₈₆	14.4	0.15	20000226	356.32221	207.19187	328.60784	9.26724	0.2035852	3.0499692	32	1	59 days	0.57	Williams	2000 EW ₈₆
2000 ED ₈₇	14.9	0.15	20000317	352.31309	230.84019	318.32344	3.72020	0.1758191	2.5633884	29	1	31 days	0.47	Williams	2000 ED ₈₇

2000 EF ₈₇	15.0	0.15	20000317	274.49989	316.28014	322.95526	4.00677	0.1303945	2.2979583	23	1	30 days	0.42			Williams	2000 EF ₈₇
2000 EG ₈₇	13.5	0.15	20000226	189.76328	9.92314	337.57059	6.40944	0.1462350	2.2942497	50	1	94 days	0.52	M-v	4	Williams	2000 EG ₈₇
2000 EH ₈₇	13.9	0.15	20000317	121.04372	69.09419	345.17329	8.62213	0.0531137	3.1122420	15	1	30 days	0.49			Williams	2000 EH ₈₇
2000 EK ₈₇	14.2	0.15	20000317	7.15122	189.86233	341.69432	7.65199	0.1021547	3.1110115	21	1	31 days	0.56			Williams	2000 EK ₈₇
2000 EL ₈₇	14.7	0.15	20000226	321.57134	249.14090	336.79100	4.68594	0.1769442	2.3810040	46	1	62 days	0.39	M-v	4	Williams	2000 EL ₈₇
2000 EM ₈₇	13.9	0.15	20000317	100.21657	51.36384	12.71495	12.04782	0.1434092	2.7880351	34	1	33 days	0.52			Williams	2000 EM ₈₇
2000 EO ₈₇	16.3	0.15	20000317	31.66673	84.03938	53.55166	3.00801	0.1572826	2.3559413	42	1	43 days	0.55			Williams	2000 EO ₈₇
2000 EP ₈₇	14.7	0.15	20000226	42.77909	48.05809	70.97816	3.25566	0.1516842	2.4124374	53	2	1998–2000	0.58	M-v	4	Williams	39494 2000 EP ₈₇
2000 ES ₈₇	14.5	0.15	20000317	342.54743	212.58207	348.97012	12.85099	0.1178204	2.6566114	21	1	31 days	0.51			Williams	2000 ES ₈₇
2000 ET ₈₇	15.7	0.15	20000317	40.75602	117.06697	12.84921	13.07166	0.1223401	2.6328663	48	1	43 days	0.76			Williams	2000 ET ₈₇
2000 EW ₈₇	15.6	0.15	20000317	56.01388	304.49181	169.96453	13.72538	0.1405977	2.5978830	27	1	38 days	0.45			Williams	2000 EW ₈₇
2000 EX ₈₇	15.3	0.15	20000317	14.32438	22.73597	145.02643	3.53132	0.1462827	2.6606654	72	1	43 days	0.55			Williams	2000 EX ₈₇
2000 EJ ₈₈	14.6	0.15	20000226	357.57417	230.57227	292.96008	12.25082	0.0835508	2.5698042	35	1	87 days	0.59	M-v	4	Williams	2000 EJ ₈₈
2000 EN ₈₈	12.9	0.15	20000226	240.80456	75.12166	231.62462	9.72091	0.2115250	3.0009511	11	1	5 days	0.53			E Williams	2000 EN ₈₈
2000 EK ₈₉	15.7	0.15	20000226	301.28136	205.13142	24.80740	2.94538	0.0897180	2.6138523	20	1	46 days	0.70			Williams	2000 EK ₈₉
2000 EY ₈₉	15.6	0.15	20000317	60.81965	88.41061	10.04254	6.24549	0.0818826	2.3936024	20	1	25 days	0.65			Williams	2000 EY ₈₉
2000 EL ₉₀	13.1	0.15	20000317	54.35146	265.71176	188.28443	25.38606	0.2236618	3.1649064	15	1	30 days	0.45			Williams	2000 EL ₉₀
2000 EM ₉₀	16.1	0.15	20000317	1.25462	335.43735	195.92946	12.58184	0.2575509	3.0658420	21	1	32 days	0.51			Williams	2000 EM ₉₀
2000 EP ₉₀	15.6	0.15	20000317	322.05790	3.31252	226.16637	4.73230	0.1867675	2.3782183	30	1	38 days	0.60			Williams	2000 EP ₉₀
2000 ES ₉₀	15.7	0.15	20000317	318.72213	28.91909	209.50880	6.68357	0.2203816	2.3331339	33	1	38 days	0.37			Williams	2000 ES ₉₀
2000 EA ₉₁	14.0	0.15	20000317	144.46042	61.50484	323.23152	8.06589	0.1680409	2.7847874	22	1	38 days	0.77			Williams	2000 EA ₉₁
2000 ED ₉₁	14.2	0.15	20000317	248.77399	84.39649	217.77493	5.80888	0.1319068	2.3877795	18	1	29 days	0.46			Williams	2000 ED ₉₁
2000 EG ₉₁	16.9	0.15	20000317	345.82137	344.07924	214.90033	4.91652	0.1839255	2.3442252	23	1	37 days	0.42			Williams	2000 EG ₉₁
2000 EH ₉₁	15.6	0.15	20000317	282.16100	53.30079	220.22455	5.04054	0.1491132	2.2930160	26	1	38 days	0.68			Williams	2000 EH ₉₁
2000 EY ₉₁	14.5	0.15	20000317	52.13364	257.38265	220.57050	5.82944	0.0975442	2.7378155	22	1	30 days	0.59			Williams	2000 EY ₉₁
2000 ER ₉₁	13.9	0.15	20000317	189.75112	149.73003	201.51906	8.84940	0.0668526	2.9768234	15	1	29 days	0.36			Williams	2000 ER ₉₁
2000 EB ₉₂	15.9	0.15	20000317	308.29224	40.15557	205.69520	6.12487	0.1399360	2.2810026	22	1	29 days	0.42			Williams	2000 EB ₉₂
2000 EC ₉₂	13.8	0.15	20000317	43.56357	282.01916	200.58742	8.36587	0.1632733	3.0022537	36	1	32 days	0.51			Williams	2000 EC ₉₂
2000 EE ₉₂	15.5	0.15	20000317	318.92692	265.56754	327.53097	4.77834	0.1433374	2.3144535	21	1	30 days	0.47			Williams	2000 EE ₉₂
2000 EF ₉₂	14.6	0.15	20000317	13.33755	321.87393	193.75556	7.50658	0.2791829	3.0233529	29	1	30 days	0.72			Williams	2000 EF ₉₂
2000 EJ ₉₂	14.7	0.15	20000317	174.13866	137.72894	227.64859	3.19744	0.1089130	2.3872567	12	1	28 days	0.54			Williams	2000 EJ ₉₂
2000 EK ₉₂	14.3	0.15	20000317	323.61348	239.07479	348.49719	12.28308	0.1235295	3.0929094	24	1	30 days	0.70			Williams	2000 EK ₉₂
2000 EM ₉₂	15.5	0.15	20000317	143.78458	183.28533	207.83134	6.53987	0.1015595	2.3993992	23	1	36 days	0.67			Williams	2000 EM ₉₂
2000 EW ₉₂	14.4	0.15	20000317	316.37268	30.88179	196.90925	13.95664	0.1054618	2.6195710	25	1	38 days	0.85			Williams	2000 EW ₉₂
2000 EZ ₉₂	16.3	0.15	20000317	11.20725	266.94988	258.01195	2.84943	0.1515202	2.2801653	21	1	30 days	0.79			Williams	2000 EZ ₉₂
2000 EC ₉₃	11.6	0.15	20000226	206.53116	189.80855	140.38211	23.75042	0.0942393	3.2292704	39	1	69 days	0.40	M-v	4	Williams	2000 EC ₉₃
2000 EH ₉₃	14.6	0.15	20000226	9.30527	222.39667	296.13891	10.31709	0.1403571	2.7623786	11	1	7 days	0.59			E Williams	2000 EH ₉₃
2000 ER ₉₃	13.1	0.15	20000226	111.24803	99.75914	305.30235	8.89738	0.1683942	2.5470648	24	1	63 days	0.51	M-v	5	Williams	2000 ER ₉₃
2000 EX ₉₃	12.0	0.15	20000226	73.32521	259.25573	193.10043	22.44324	0.0748249	3.2313244	46	1	91 days	0.68	M-v	5	Williams	2000 EX ₉₃
2000 EJ ₉₄	14.7	0.15	20000317	301.73210	328.97175	277.93107	5.14742	0.0798930	2.4043936	17	1	29 days	0.45			Williams	2000 EJ ₉₄
2000 EM ₉₄	13.8	0.15	20000226	112.90896	119.12236	285.44410	5.84951	0.2112169	2.6150330	12	1	4 days	0.34			E Williams	2000 EM ₉₄
2000 EN ₉₄	13.7	0.15	20000317	4.59838	215.98424	318.53879	7.25722	0.1358859	2.7600413	18	1	35 days	0.38			Williams	2000 EN ₉₄
2000 EO ₉₄	15.2	0.15	20000226	355.08256	225.16914	314.62147	5.92192	0.0440567	2.3492396	12	1	4 days	0.41			E Williams	2000 EO ₉₄
2000 EQ ₉₄	14.9	0.15	20000317	342.92389	225.67432	338.58518	14.03001	0.1426816	2.7400683	17	1	29 days	0.44			Williams	2000 EQ ₉₄
2000 ES ₉₄	14.2	0.15	20000317	80.37671	195.80305	239.11847	6.18336	0.2298121	2.5625130	24	1	30 days	0.61			Williams	2000 ES ₉₄
2000 ET ₉₄	14.7	0.15	20000226	4.00360	274.96408	254.73146	7.31115	0.1411650	2.6609035	16	1	16 days	0.67			Williams	2000 ET ₉₄
2000 EW ₉₄	13.9	0.15	20000226	4.75866	276.26105	256.94547	7.63341	0.0665802	2.8538984	12	1	4 days	0.48			E Williams	2000 EW ₉₄
2000 EX ₉₄	12.5	0.15	20000226	298.85792	277.99105	335.89158	12.43620	0.1400464	2.6186711	32	1	70 days	0.36	M-v	4	Williams	2000 EX ₉₄
2000 EA ₉₅	13.6	0.15	20000226	201.87775	50.76676	291.99448	8.09091	0.1128679	2.6038738	12	1	4 days	0.39			E Williams	2000 EA ₉₅
2000 EC ₉₅	13.2	0.15	20000317	274.02163	338.10146	304.97850	6.42215	0.1123696	2.6723400	15	1	32 days	0.37			Williams	2000 EC ₉₅
2000 ED ₉₅	13.6	0.15	20000317	260.89507	325.40025	336.64684	11.85638	0.1710106	2.5823413	21	1	35 days	0.25			Williams	2000 ED ₉₅
2000 EE ₉₅	13.7	0.15	20000226	168.44994	65.83233	302.99401	7.46372	0.1884776	2.2526154	10	1	4 days	0.32			E Williams	2000 EE ₉₅
2000 EJ ₉₅	13.4	0.15	20000226	285.00797	305.96124	326.63858	10.52263	0.1330530	2.8973418	12	1	4 days	0.28			E Williams	2000 EJ ₉₅

2000 APR. 18

M.P.C. 40487

2000 EK ₉₅	14.0	0.15	20000226	357.95585	310.80029	233.28059	2.29753	0.0852444	2.2854930	31	1	90 days	0.40	M-v	4	Williams	2000 EK ₉₅
2000 EL ₉₅	13.8	0.15	20000226	18.44554	179.32243	340.06879	13.17447	0.0681265	2.6386271	19	1	3 days	0.29			E Williams	2000 EL ₉₅
2000 EN ₉₅	14.0	0.15	20000317	322.89641	22.79162	214.25517	10.13098	0.1703759	3.1347121	41	1	38 days	0.41			Williams	2000 EN ₉₅
2000 ER ₉₅	16.1	0.15	20000317	210.89712	328.83508	5.00498	14.02513	0.0933783	2.7112160	15	1	28 days	0.63			Williams	2000 ER ₉₅
2000 ES ₉₅	15.7	0.15	20000317	200.34828	155.08327	193.90915	2.70235	0.1902725	2.2999926	19	1	28 days	0.68			Williams	2000 ES ₉₅
2000 EW ₉₅	15.9	0.15	20000317	285.16451	237.94350	43.99628	2.33909	0.1915300	2.2102574	21	1	31 days	0.56			Williams	2000 EW ₉₅
2000 EG ₉₆	14.7	0.15	20000317	284.18194	268.28089	355.88063	12.52575	0.1386338	2.6840215	18	1	26 days	0.54			Williams	2000 EG ₉₆
2000 EN ₉₆	14.9	0.15	20000317	336.66385	58.50580	155.27356	10.65984	0.0971546	3.1677338	32	1	33 days	0.59			Williams	2000 EN ₉₆
2000 ES ₉₆	15.0	0.15	20000317	8.10007	38.04759	133.94988	6.81661	0.1826774	3.0203825	10	1	17 days	0.56			Williams	2000 ES ₉₆
2000 EA ₉₇	13.8	0.15	20000226	14.70788	177.08130	352.41285	10.09666	0.1961912	2.6975465	22	1	56 days	0.57			Williams	2000 EA ₉₇
2000 EC ₉₇	15.0	0.15	20000317	8.91926	178.50438	13.30793	13.45807	0.1025482	2.6884020	24	1	38 days	0.41			Williams	2000 EC ₉₇
2000 EE ₉₇	13.6	0.15	20000317	300.67431	293.36335	326.25898	5.63383	0.0845683	2.4012886	26	1	31 days	0.38			Williams	2000 EE ₉₇
2000 EG ₉₇	14.6	0.15	20000317	24.99953	313.50333	206.30158	14.03445	0.1186361	2.6105095	40	1	31 days	0.37			Williams	2000 EG ₉₇
2000 EL ₉₇	14.3	0.15	20000226	328.71229	312.13541	270.67948	5.51537	0.0589835	2.3381672	29	1	68 days	0.57	M-v	5	Williams	2000 EL ₉₇
2000 ER ₉₇	14.9	0.15	20000317	30.46846	120.74097	35.53779	23.44894	0.2862796	2.3689615	17	1	29 days	0.53			Williams	2000 ER ₉₇
2000 ET ₉₇	15.2	0.15	20000317	313.49896	259.59095	354.32923	3.78573	0.1140495	2.2448202	24	1	30 days	0.50			Williams	2000 ET ₉₇
2000 EV ₉₇	12.4	0.15	20000317	163.10043	296.80097	63.01922	10.67760	0.0958163	3.5080963	29	1	33 days	0.58			Williams	2000 EV ₉₇
2000 EX ₉₇	15.8	0.15	20000317	30.20428	231.02578	270.56716	5.44083	0.1758637	2.1727665	16	1	26 days	0.65			Williams	2000 EX ₉₇
2000 EY ₉₇	14.3	0.15	20000226	281.86599	218.42445	23.34250	21.17705	0.0408522	1.9476142	22	1	64 days	0.49	M-v	4	Williams	2000 EY ₉₇
2000 EC ₉₈	9.3	0.15	20000317	200.37148	165.47548	173.10031	4.49954	0.4789810	10.5723578	23	1	32 days	0.46			Williams	2000 EC ₉₈
2000 EZ ₉₈	14.5	0.15	20000226	185.95951	172.72141	170.27703	10.91855	0.1374357	2.9535357	16	1	11 days	0.33			Williams	2000 EZ ₉₈
2000 EA ₉₉	15.5	0.15	20000226	202.42917	164.54120	169.64401	15.13677	0.2695317	2.4680284	19	1	11 days	0.71			Williams	2000 EA ₉₉
2000 EZ ₉₉	17.8	0.15	20000226	26.90062	134.97417	358.80302	3.06840	0.0858813	2.2333167	16	1	11 days	0.41			Williams	2000 EZ ₉₉
2000 EF ₁₀₀	16.0	0.15	20000317	226.20738	341.27846	341.92701	5.66395	0.1960959	2.2355551	24	1	34 days	0.36			Williams	2000 EF ₁₀₀
2000 EJ ₁₀₀	16.4	0.15	20000226	296.85455	78.79934	178.36832	16.21639	0.2001102	3.0147398	13	1	4 days	0.30			E Williams	2000 EJ ₁₀₀
2000 EK ₁₀₀	17.1	0.15	20000317	19.33470	325.34194	188.62636	4.17828	0.0640623	2.5416862	9	1	21 days	0.20			Williams	2000 EK ₁₀₀
2000 EM ₁₀₀	17.6	0.15	20000317	6.05924	182.21289	347.22619	6.26754	0.0392321	2.2524660	17	1	22 days	0.41			Williams	2000 EM ₁₀₀
2000 EP ₁₀₀	17.2	0.15	20000226	338.61563	283.34588	274.01962	0.87688	0.1252733	2.5322667	13	1	4 days	0.33			E Williams	2000 EP ₁₀₀
2000 ES ₁₀₀	16.6	0.15	20000317	154.63099	135.93739	238.19747	1.20818	0.1818523	2.4415327	9	1	21 days	0.20			Williams	2000 ES ₁₀₀
2000 EW ₁₀₀	15.4	0.15	20000317	238.37030	309.73459	4.18778	8.14259	0.0989307	2.9924152	11	1	24 days	0.24			Williams	2000 EW ₁₀₀
2000 EA ₁₀₁	16.7	0.15	20000317	280.53742	110.71095	172.57001	3.65893	0.1775448	2.4789474	11	1	24 days	0.82			Williams	2000 EA ₁₀₁
2000 EN ₁₀₁	15.9	0.15	20000226	77.85796	100.26821	341.20747	1.03993	0.0457661	2.8913227	22	1	12 days	0.66			Williams	2000 EN ₁₀₁
2000 ES ₁₀₁	16.9	0.15	20000317	69.49676	144.96012	275.91324	1.43113	0.3872199	2.6690536	9	1	22 days	0.35			Williams	2000 ES ₁₀₁
2000 EU ₁₀₁	16.1	0.15	20000317	292.89626	26.26514	227.52491	1.78889	0.1024356	3.1454670	19	1	27 days	0.50			Williams	2000 EU ₁₀₁
2000 EX ₁₀₁	15.0	0.15	20000317	218.87773	350.30914	338.25778	4.44726	0.2018150	2.4136498	37	1	39 days	0.66			Williams	2000 EX ₁₀₁
2000 EY ₁₀₁	16.3	0.15	20000317	195.62959	357.00878	345.01025	8.16527	0.0734399	3.0294097	13	1	14 days	0.31			Williams	2000 EY ₁₀₁
2000 EE ₁₀₂	16.4	0.15	20000317	161.71020	156.67539	214.14099	1.63995	0.0805348	2.7114014	14	1	22 days	0.62			Williams	2000 EE ₁₀₂
2000 EH ₁₀₂	15.6	0.15	20000317	132.38092	185.50808	208.06389	1.76758	0.1231139	2.6565923	26	1	33 days	0.55			Williams	2000 EH ₁₀₂
2000 EW ₁₀₂	17.2	0.15	20000317	35.88576	134.65687	352.30867	10.53246	0.1665164	3.1605289	12	1	19 days	0.29			Williams	2000 EW ₁₀₂
2000 EZ ₁₀₂	13.7	0.15	20000317	325.57344	172.88991	53.76870	17.00358	0.1563282	3.1747403	24	1	34 days	0.50			Williams	2000 EZ ₁₀₂
2000 EA ₁₀₃	15.0	0.15	20000317	322.58116	284.86399	299.06160	5.58152	0.0766961	2.4243950	20	1	35 days	0.50			Williams	2000 EA ₁₀₃
2000 EC ₁₀₃	15.8	0.15	20000317	290.14083	245.53943	10.10865	4.57282	0.1233890	2.2815089	21	1	25 days	0.72			Williams	2000 EC ₁₀₃
2000 ED ₁₀₃	14.4	0.15	20000317	183.18611	179.91447	171.26052	13.55024	0.1317781	2.7529484	37	1	39 days	0.87			Williams	2000 ED ₁₀₃
2000 EG ₁₀₃	13.4	0.15	20000317	93.10794	240.43882	173.44443	6.06613	0.2452861	3.0600132	11	1	25 days	0.53			Williams	2000 EG ₁₀₃
2000 EK ₁₀₃	13.6	0.15	20000317	44.48481	17.42183	94.27207	18.65366	0.1679651	3.1153727	22	1	29 days	0.30			Williams	2000 EK ₁₀₃
2000 EP ₁₀₃	14.4	0.15	20000317	316.49558	152.61493	79.37917	18.33247	0.1828588	3.1492384	20	1	29 days	0.44			Williams	2000 EP ₁₀₃
2000 EQ ₁₀₃	15.5	0.15	20000226	306.22981	235.33601	4.99109	5.38669	0.1964172	2.3282012	50	1	59 days	0.46			Williams	2000 EQ ₁₀₃
2000 ET ₁₀₃	14.2	0.15	20000317	82.80548	325.74575	112.91183	13.43022	0.1281393	2.5617617	24	1	34 days	0.53			Williams	2000 ET ₁₀₃
2000 EU ₁₀₃	13.4	0.15	20000226	61.03081	320.50573	127.74631	15.94726	0.2230606	2.5884944	34	1	65 days	0.44	M-v	4	Williams	2000 EU ₁₀₃
2000 EV ₁₀₃	15.9	0.15	20000317	341.77653	333.29639	235.95865	4.29600	0.1725759	2.5376698	23	1	27 days	0.71			Williams	2000 EV ₁₀₃
2000 EW ₁₀₃	14.6	0.15	20000317	250.64429	113.38217	197.65885	13.32178	0.0314204	2.4336532	37	1	27 days	0.37			Williams	2000 EW ₁₀₃
2000 EA ₁₀₄	12.9	0.15	20000317	92.44412	202.26634	255.59321	9.38207	0.0716506	3.0007685	17	1	23 days	0.65			Williams	2000 EA ₁₀₄
2000 EC ₁₀₄	21.3	0.15	20000317	8.30078	346.50955	173.00908	31.82402	0.3726110	1.7876901	31	1	19 days	0.60			Marsden	2000 EC ₁₀₄

2000 ED ₁₀₄	16.6	0.15	20000226	108.38054	218.26403	190.09797	40.80495	0.2687090	1.3705073	95	1	33 days	0.55	M-v	6	Marsden	2000 ED ₁₀₄
2000 EE ₁₀₄	20.5	0.15	20000226	241.47620	281.08992	26.26274	5.24059	0.2939393	1.0035700	157	1	35 days	0.54	M-v	6	Marsden	2000 EE ₁₀₄
2000 EF ₁₀₄	18.8	0.15	20000226	72.49994	346.69498	66.44668	10.81822	0.4178791	1.1476864	51	1	32 days	0.67	M-v	6	Williams	2000 EF ₁₀₄
2000 EG ₁₀₄	16.9	0.15	20000317	348.05559	65.23993	161.97888	29.06812	0.4059305	2.6743127	41	1	29 days	0.66			Williams	2000 EG ₁₀₄
2000 EH ₁₀₄	17.8	0.15	20000226	349.72829	141.03770	49.58103	5.49794	0.4760263	2.7376802	55	1	65 days	0.49	M-v	5	Williams	2000 EH ₁₀₄
2000 EJ ₁₀₄	14.7	0.15	20000226	6.46990	351.26060	186.37432	6.17865	0.0768969	2.3231433	46	1	68 days	0.49	M-v	5	Williams	2000 EJ ₁₀₄
2000 EM ₁₀₄	14.4	0.15	20000226	19.78048	65.63502	79.01571	12.41122	0.2088092	2.6813074	32	1	68 days	0.48	M-v	4	Williams	2000 EM ₁₀₄
2000 EW ₁₀₄	13.8	0.15	20000317	296.41056	222.51163	43.66634	14.78214	0.1733708	3.2035583	30	1	33 days	0.50			Williams	2000 EW ₁₀₄
2000 EZ ₁₀₄	14.3	0.15	20000317	304.35402	136.29478	115.90073	9.94320	0.1180748	2.7341193	37	1	35 days	0.49			Williams	2000 EZ ₁₀₄
2000 EE ₁₀₅	13.4	0.15	20000317	313.16143	93.83546	144.80667	15.47310	0.0397704	3.2291582	34	1	33 days	0.52			Williams	2000 EE ₁₀₅
2000 EF ₁₀₅	13.5	0.15	20000226	26.76416	95.96675	51.98408	13.56542	0.1081161	2.9797027	35	1	94 days	0.42	M-v	5	Williams	2000 EF ₁₀₅
2000 EH ₁₀₅	14.5	0.15	20000317	339.49165	100.61361	119.10034	10.80299	0.2332687	3.0737791	28	1	33 days	0.42			Williams	2000 EH ₁₀₅
2000 EJ ₁₀₅	13.5	0.15	20000317	226.47685	222.81796	112.55112	11.53550	0.1803188	3.2127119	26	1	28 days	0.50			Williams	2000 EJ ₁₀₅
2000 EK ₁₀₅	15.3	0.15	20000317	241.49822	243.24381	71.49784	10.14171	0.0953124	2.5408430	26	1	28 days	0.52			Williams	2000 EK ₁₀₅
2000 EL ₁₀₅	15.0	0.15	20000317	322.57814	104.79197	127.57927	10.93150	0.0981521	2.6380484	15	1	23 days	0.46			Williams	2000 EL ₁₀₅
2000 EM ₁₀₅	15.3	0.15	20000317	36.49901	65.51325	80.39585	9.42578	0.0657399	2.6573148	27	1	28 days	0.45			Williams	2000 EM ₁₀₅
2000 EN ₁₀₅	14.8	0.15	20000317	329.42268	91.02711	135.64228	15.30112	0.0904912	3.0976437	27	1	28 days	0.44			Williams	2000 EN ₁₀₅
2000 EQ ₁₀₅	14.8	0.15	20000317	297.11828	220.53135	45.02402	13.49268	0.1484242	2.6415868	25	1	31 days	0.43			Williams	2000 EQ ₁₀₅
2000 ET ₁₀₅	14.4	0.15	20000317	76.20547	40.57232	61.63593	9.81987	0.0875876	2.7164447	18	1	25 days	0.48			Williams	2000 ET ₁₀₅
2000 EU ₁₀₅	14.9	0.15	20000317	72.57181	323.20476	141.00173	12.66869	0.1081871	2.7563577	27	1	28 days	0.62			Williams	2000 EU ₁₀₅
2000 EV ₁₀₅	13.4	0.15	20000226	22.58524	39.93695	119.17046	10.07737	0.0752013	3.0044284	36	1	68 days	0.31	M-v	4	Williams	2000 EV ₁₀₅
2000 EW ₁₀₅	14.0	0.15	20000317	359.62595	20.36528	172.01046	27.30144	0.1154624	3.2007234	26	1	32 days	0.39			Williams	2000 EW ₁₀₅
2000 EX ₁₀₅	16.3	0.15	20000317	311.64343	198.47307	55.98184	7.32324	0.2133247	2.1988318	31	1	33 days	0.49			Williams	2000 EX ₁₀₅
2000 EY ₁₀₅	15.3	0.15	20000317	39.93221	55.23643	85.43271	6.94492	0.0656115	2.4089628	28	1	36 days	0.45			Williams	2000 EY ₁₀₅
2000 EA ₁₀₆	14.3	0.15	20000317	280.69418	239.58925	38.29291	15.62070	0.1108251	2.6922896	16	1	33 days	0.55			Williams	2000 EA ₁₀₆
2000 EB ₁₀₆	14.2	0.15	20000317	28.05028	0.05814	155.52684	13.41748	0.0782714	2.7525552	35	1	39 days	0.33			Williams	2000 EB ₁₀₆
2000 ED ₁₀₆	14.1	0.15	20000317	229.32893	166.74304	155.45112	14.92255	0.0625991	3.0032780	27	1	28 days	0.61			Williams	2000 ED ₁₀₆
2000 EJ ₁₀₆	15.0	0.15	20000317	6.01537	153.58416	21.13787	23.73053	0.1941969	3.1567504	33	1	28 days	0.57			Williams	2000 EJ ₁₀₆
2000 EK ₁₀₆	14.9	0.15	20000317	282.70117	117.21321	155.72286	15.00639	0.0812561	2.6621885	21	1	28 days	0.61			Williams	2000 EK ₁₀₆
2000 ER ₁₀₆	13.6	0.15	20000317	97.24953	342.40420	103.68211	27.18891	0.2431346	2.3820828	27	1	30 days	0.47			Williams	2000 ER ₁₀₆
2000 ES ₁₀₆	19.5	0.15	20000226	354.50713	358.07290	175.73623	5.53434	0.4024522	2.2994988	25	1	9 days	0.58			Williams	2000 ES ₁₀₆
2000 ET ₁₀₆	16.5	0.15	20000317	323.21956	247.93044	356.94337	4.61734	0.1397231	2.2431759	19	1	24 days	0.63			Williams	2000 ET ₁₀₆
2000 EU ₁₀₆	15.9	0.15	20000226	258.79093	99.83825	198.56751	21.53026	0.3795890	2.3582436	17	1	6 days	0.54			Williams	2000 EU ₁₀₆
2000 EV ₁₀₆	19.7	0.15	20000226	60.92893	253.65894	170.97393	31.88324	0.3335119	1.5977492	13	1	4 days	0.44			Williams	2000 EV ₁₀₆
2000 EW ₁₀₆	13.3	0.15	20000317	120.98899	286.77738	138.44410	23.06055	0.3469549	2.3777942	26	1	22 days	0.92			Williams	2000 EW ₁₀₆
2000 EY ₁₀₆	19.2	0.15	20000226	24.67901	103.38641	0.09261	38.86706	0.4652217	1.7320394	22	1	3 days	0.33			Williams	2000 EY ₁₀₆
2000 EZ ₁₀₆	20.5	0.15	20000226	251.16483	313.09508	358.53296	41.09914	0.4503114	0.9365812	38	1	14 days	0.92	M-v	8	Williams	2000 EZ ₁₀₆
2000 EA ₁₀₇	15.6	0.15	20000226	162.05067	277.97194	53.02776	28.57082	0.4555322	0.9293092	62	1	30 days	0.43	M-v	7	Williams	2000 EA ₁₀₇
2000 EB ₁₀₇	17.1	0.15	20000226	344.04990	43.46984	177.55071	25.28192	0.5845866	3.0320692	94	1	40 days	0.52	M-v	4	Marsden	2000 EB ₁₀₇
2000 EC ₁₀₇	16.6	0.15	20000226	330.73703	284.48704	302.48228	25.42060	0.4732638	2.6213654	13	1	14 days	0.38			Williams	2000 EC ₁₀₇
2000 EE ₁₀₇	15.2	0.15	20000317	274.74155	243.76254	30.51642	6.71192	0.1207936	2.4263338	39	1	39 days	0.55			Williams	2000 EE ₁₀₇
2000 EF ₁₀₇	16.3	0.15	20000317	344.27117	77.48753	118.36666	4.42822	0.1229308	2.2389207	40	1	38 days	0.54			Williams	2000 EF ₁₀₇
2000 EL ₁₀₇	15.2	0.15	20000206	268.93143	64.57198	186.02951	12.11071	0.0897186	2.6108590	20	1	33 days	0.59			Williams	2000 EL ₁₀₇
2000 ET ₁₀₇	13.2	0.15	20000226	122.67950	134.94061	238.05351	14.00671	0.1251197	2.5853772	22	1	86 days	0.41	M-v	4	Williams	2000 ET ₁₀₇
2000 EX ₁₀₇	15.2	0.15	20000226	357.13860	328.62007	189.49594	11.47366	0.1577764	3.1670879	31	1	57 days	0.76			Williams	2000 EX ₁₀₇
2000 EE ₁₀₈	15.0	0.15	20000226	348.10298	47.80798	153.86288	9.55389	0.3205458	2.6896101	27	1	65 days	0.56	M-v	4	Williams	2000 EE ₁₀₈
2000 EG ₁₀₈	12.1	0.15	20000226	196.13628	159.00623	183.00026	17.69766	0.2110581	3.1115664	63	1	63 days	0.47	M-v	5	Williams	2000 EG ₁₀₈
2000 EH ₁₀₈	14.8	0.15	20000317	294.09019	72.11486	187.74779	13.57464	0.1619638	2.6811942	61	1	38 days	0.66			Williams	2000 EH ₁₀₈
2000 EJ ₁₀₈	14.3	0.15	20000226	329.71892	155.64546	66.53111	5.82473	0.1910247	2.5506336	36	1	96 days	0.40	M-v	4	Williams	2000 EJ ₁₀₈
2000 ES ₁₀₈	14.1	0.15	20000226	305.74798	205.11194	47.97938	9.00795	0.1497257	2.3541705	40	1	67 days	0.46	M-v	5	Williams	2000 ES ₁₀₈
2000 ET ₁₀₈	16.3	0.15	20000317	29.60733	319.03202	176.48423	32.66430	0.2512506	2.6141521	18	1	26 days	0.55			Williams	2000 ET ₁₀₈
2000 EU ₁₀₈	16.1	0.15	20000317	19.61358	327.37376	186.56210	5.87944	0.1721213	3.1158814	11	1	29 days	0.66			Williams	2000 EU ₁₀₈
2000 EZ ₁₀₈	13.6	0.15	20000317	268.77440	245.25872	49.24090	10.19840	0.0553958	2.9657547	25	1	36 days	0.70			Williams	2000 EZ ₁₀₈

2000 APR. 18

M.P.C. 40489

2000 ED ₁₀₉	13.4	0.15	20000317	320.26141	76.15129	168.40011	11.75459	0.0516329	3.0577771	24	1	36 days	0.53		Williams	2000 ED ₁₀₉
2000 EU ₁₀₉	15.4	0.15	20000317	228.78440	236.03097	104.81901	4.95070	0.1582810	2.3439437	14	1	30 days	0.56		Williams	2000 EU ₁₀₉
2000 EY ₁₀₉	15.3	0.15	20000317	272.53155	266.36843	5.56355	7.34938	0.0980014	2.4069573	30	1	30 days	0.87		Williams	2000 EY ₁₀₉
2000 EC ₁₁₀	16.4	0.15	20000317	4.08443	149.84325	16.81628	9.56658	0.2342122	2.6874314	22	1	37 days	0.61		Williams	2000 EC ₁₁₀
2000 ED ₁₁₀	13.9	0.15	20000226	231.05748	239.56271	69.58080	7.40805	0.1405243	2.4053869	31	1	64 days	0.51	M-v 5	Williams	2000 ED ₁₁₀
2000 EE ₁₁₀	14.0	0.15	20000226	275.01991	188.23572	82.19063	7.65845	0.1622312	2.2951243	38	1	93 days	0.42	M-v 4	Williams	2000 EE ₁₁₀
2000 EH ₁₁₀	13.4	0.15	20000226	244.00766	225.77789	62.84825	10.72094	0.0504117	3.0536273	15	1	21 days	0.53		Williams	2000 EH ₁₁₀
2000 EJ ₁₁₀	13.8	0.15	20000226	64.47249	328.30050	104.65789	10.19744	0.2635310	2.7689977	27	1	67 days	0.41	M-v 4	Williams	2000 EJ ₁₁₀
2000 EL ₁₁₀	14.2	0.15	20000226	291.88508	193.30667	63.47476	10.03014	0.1858009	2.7864809	43	1	64 days	0.50	M-v 5	Williams	2000 EL ₁₁₀
2000 EP ₁₁₀	15.5	0.15	20000317	13.38193	87.67780	73.18824	3.12018	0.1531298	2.3701612	27	1	33 days	0.43		Williams	2000 EP ₁₁₀
2000 ES ₁₁₀	16.1	0.15	20000317	337.80733	175.61802	28.58971	7.35060	0.0744548	2.3260321	26	1	33 days	0.47		Williams	2000 ES ₁₁₀
2000 EU ₁₁₀	15.4	0.15	20000317	321.46600	92.14975	137.77422	6.61645	0.1415337	2.4308046	32	1	31 days	0.49		Williams	2000 EU ₁₁₀
2000 EV ₁₁₀	15.5	0.15	20000317	333.75838	147.45316	61.32287	5.37329	0.0676471	2.4270817	27	1	31 days	0.50		Williams	2000 EV ₁₁₀
2000 EX ₁₁₀	16.0	0.15	20000226	347.74296	102.94635	83.31671	5.59238	0.0380463	2.3414709	32	1	52 days	0.70		Williams	2000 EX ₁₁₀
2000 EZ ₁₁₀	15.4	0.15	20000317	42.51802	45.99039	83.48157	6.34197	0.0801641	2.3296789	27	1	31 days	0.48		Williams	2000 EZ ₁₁₀
2000 EA ₁₁₁	14.4	0.15	20000317	1.83380	157.22013	18.75523	17.79007	0.1631991	3.1561566	28	1	31 days	0.44		Williams	2000 EA ₁₁₁
2000 EB ₁₁₁	13.9	0.15	20000317	244.98394	249.37601	52.31763	9.53868	0.0739574	2.9742469	25	1	26 days	0.50		Williams	2000 EB ₁₁₁
2000 EC ₁₁₁	13.7	0.15	20000317	305.16813	238.69857	12.45805	24.84366	0.1691045	2.7952702	28	1	33 days	0.42		Williams	2000 EC ₁₁₁
2000 ED ₁₁₁	14.6	0.15	20000317	72.72290	335.36769	122.56190	9.97247	0.0797441	2.7159058	16	1	26 days	0.43		Williams	2000 ED ₁₁₁
2000 EE ₁₁₁	14.1	0.15	20000317	3.08197	125.74551	49.35595	10.45919	0.1438986	3.0765046	24	1	31 days	0.39		Williams	2000 EE ₁₁₁
2000 EG ₁₁₁	13.5	0.15	20000317	306.08086	184.18124	66.57185	9.16191	0.1671956	2.7702003	26	1	31 days	0.42		Williams	2000 EG ₁₁₁
2000 EJ ₁₁₁	13.5	0.15	20000317	233.95626	280.80087	33.28932	18.35318	0.1146584	3.1103810	15	1	26 days	0.48		Williams	2000 EJ ₁₁₁
2000 EK ₁₁₁	15.1	0.15	20000317	306.11095	183.77692	67.97018	7.88365	0.1824926	2.2235095	31	1	35 days	0.60		Williams	2000 EK ₁₁₁
2000 EL ₁₁₁	12.8	0.15	20000317	262.27687	194.61039	112.80020	10.85769	0.2790467	2.7241512	25	1	36 days	0.51		Williams	2000 EL ₁₁₁
2000 EY ₁₁₁	14.4	0.15	20000206	157.05674	238.32178	106.92621	3.63371	0.0914729	3.0198736	29	1	36 days	0.78		Williams	2000 EY ₁₁₁
2000 EJ ₁₁₂	14.8	0.15	20000206	39.69686	106.72446	337.81674	0.67166	0.1660491	3.1505261	22	1	37 days	0.43		Williams	2000 EJ ₁₁₂
2000 EQ ₁₁₂	16.2	0.15	20000317	17.75787	246.80086	265.29451	3.93203	0.1603572	2.3561627	23	1	40 days	0.83		Williams	2000 EQ ₁₁₂
2000 ER ₁₁₂	14.9	0.15	20000317	261.98682	77.05513	212.76789	6.16387	0.1439913	2.2703666	33	1	41 days	0.50		Williams	2000 ER ₁₁₂
2000 EV ₁₁₂	16.4	0.15	20000317	325.83903	213.77797	20.86333	2.95910	0.1349031	2.1970471	72	1	35 days	0.51		Williams	2000 EV ₁₁₂
2000 EW ₁₁₂	15.2	0.15	20000317	326.05476	217.87964	20.80205	4.13468	0.1726209	2.4436175	82	1	36 days	0.33		Williams	2000 EW ₁₁₂
2000 EY ₁₁₂	14.7	0.15	20000317	254.47372	265.07777	37.21375	2.94959	0.0149611	2.9088900	35	1	35 days	0.43		Williams	2000 EY ₁₁₂
2000 EA ₁₁₃	15.3	0.15	20000226	34.31310	25.42300	113.89548	2.25405	0.1414505	2.3113775	28	1	63 days	0.51	M-v 5	Williams	2000 EA ₁₁₃
2000 EF ₁₁₃	15.9	0.15	20000317	2.50823	139.00452	42.78781	6.52917	0.0984656	2.2877259	32	1	32 days	0.40		Williams	2000 EF ₁₁₃
2000 EO ₁₁₃	16.1	0.15	20000317	189.08845	0.24531	349.58776	8.83499	0.1154941	2.9884332	9	1	25 days	0.42		Williams	2000 EO ₁₁₃
2000 ET ₁₁₃	15.5	0.15	20000317	142.40494	43.71534	342.57443	3.65353	0.1453316	3.0093223	24	1	35 days	0.64		Williams	2000 ET ₁₁₃
2000 EY ₁₁₃	15.3	0.15	20000317	294.91208	124.29139	159.20144	5.23296	0.2060397	2.3399442	16	1	29 days	0.43		Williams	2000 EY ₁₁₃
2000 EJ ₁₁₄	14.2	0.15	20000317	51.97885	206.39630	294.75262	0.78367	0.0245270	2.8561590	51	1	37 days	0.56		Williams	2000 EJ ₁₁₄
2000 EL ₁₁₄	13.4	0.15	20000317	303.89667	253.87650	19.83597	2.46346	0.2064446	3.0711843	46	1	39 days	0.35		Williams	2000 EL ₁₁₄
2000 EM ₁₁₄	15.0	0.15	20000317	40.44297	313.41636	191.70089	8.14464	0.1072499	2.6984289	26	1	29 days	0.54		Williams	2000 EM ₁₁₄
2000 EN ₁₁₄	13.4	0.15	20000317	98.78478	46.75427	18.52224	23.67949	0.3147809	2.3811296	48	1	34 days	0.33		Williams	2000 EN ₁₁₄
2000 ER ₁₁₆	15.6	0.15	20000317	275.95880	301.74180	340.34592	2.15480	0.1593574	2.3911948	22	1	28 days	0.83		Williams	2000 ER ₁₁₆
2000 ES ₁₁₆	14.4	0.15	20000317	310.27136	76.46470	166.18955	10.68329	0.1425827	2.8127681	27	1	31 days	0.59		Williams	2000 ES ₁₁₆
2000 ET ₁₁₆	15.0	0.15	20000317	120.61556	227.62890	185.59771	1.74024	0.0856865	2.8926224	21	1	28 days	0.46		Williams	2000 ET ₁₁₆
2000 EU ₁₁₆	12.4	0.15	20000317	15.36638	312.99162	230.67907	8.09230	0.0483764	3.1670629	29	1	31 days	0.56		Williams	2000 EU ₁₁₆
2000 EW ₁₁₆	16.5	0.15	20000317	85.36945	272.38430	178.24455	1.91649	0.0584054	2.4059528	14	1	27 days	0.78		Williams	2000 EW ₁₁₆
2000 EX ₁₁₆	17.4	0.15	20000317	67.42553	83.75552	14.85608	2.49203	0.1487265	2.4546811	15	1	27 days	0.56		Williams	2000 EX ₁₁₆
2000 EY ₁₁₆	15.3	0.15	20000317	341.29490	158.88020	46.80514	0.28987	0.0925585	2.5701621	33	1	35 days	0.76		Williams	2000 EY ₁₁₆
2000 EB ₁₁₇	14.9	0.15	20000317	335.56976	36.39959	203.74978	12.26323	0.2182330	2.7055261	27	1	37 days	0.48		Williams	2000 EB ₁₁₇
2000 EM ₁₁₈	14.9	0.15	20000226	135.22853	359.05823	9.08239	15.90722	0.0851395	2.5905267	17	1	8 days	0.53		Williams	2000 EM ₁₁₈
2000 ER ₁₁₈	15.0	0.15	20000226	94.30179	298.54026	95.54154	10.27577	0.2212031	2.4016095	17	1	8 days	0.34		Williams	2000 ER ₁₁₈
2000 EM ₁₁₉	13.8	0.15	20000226	3.96682	142.41369	5.69406	17.43062	0.1545037	3.1395573	22	1	62 days	0.33	M-v 4	Williams	2000 EM ₁₁₉
2000 EU ₁₁₉	15.2	0.15	20000226	341.04845	147.66323	37.40032	9.69578	0.2118047	2.7738244	26	1	59 days	0.50		Williams	2000 EU ₁₁₉
2000 EM ₁₂₀	15.3	0.15	20000206	341.41432	74.54118	97.61096	6.54594	0.1075035	3.0800886	15	1	35 days	0.71		Williams	2000 EM ₁₂₀

2000 EO ₁₂₀	14.6	0.15	20000226	26.71218	348.12322	128.15056	11.69265	0.1929978	2.7560670	40	1	98 days	0.55	M-v	4	Williams	2000 EO ₁₂₀
2000 EQ ₁₂₀	13.3	0.15	20000226	270.32992	225.61723	51.16452	7.51007	0.2808030	2.7029683	41	1	64 days	0.51	M-v	4	Williams	2000 EQ ₁₂₀
2000 ES ₁₂₀	14.0	0.15	20000226	67.20248	81.58290	354.30856	18.01471	0.1180059	3.1976549	31	1	60 days	0.49	M-v	5	Williams	2000 ES ₁₂₀
2000 EA ₁₂₁	13.4	0.15	20000226	183.17628	330.62852	355.80860	15.30757	0.0932867	3.1660827	17	1	8 days	0.38			Williams	2000 EA ₁₂₁
2000 EK ₁₂₁	14.7	0.15	20000226	281.98648	161.99218	86.20612	9.21315	0.1747021	2.7387611	16	1	8 days	0.35			Williams	2000 EK ₁₂₁
2000 EC ₁₂₂	15.0	0.15	20000226	223.85139	277.49430	30.99540	3.88540	0.1979253	2.6298958	18	1	10 days	0.62			Williams	2000 EC ₁₂₂
2000 EF ₁₂₂	15.7	0.15	20000226	287.78449	107.82573	137.03670	3.70821	0.1138632	2.2896024	17	1	7 days	0.54			Williams	2000 EF ₁₂₂
2000 EP ₁₂₂	15.5	0.15	20000226	317.53296	317.30671	245.13914	5.64222	0.0566442	2.2638290	31	1	82 days	0.61	M-v	4	Williams	2000 EP ₁₂₂
2000 ES ₁₂₂	13.8	0.15	20000226	75.80049	254.91118	176.07276	14.25328	0.0493685	2.6431667	40	1	116 days	0.62	M-v	4	Williams	2000 ES ₁₂₂
2000 ET ₁₂₂	15.5	0.15	20000226	128.28694	166.86309	212.80573	1.55668	0.2145490	2.7692413	15	1	9 days	0.54			Williams	2000 ET ₁₂₂
2000 EV ₁₂₂	15.3	0.15	20000226	119.92436	219.66477	173.79648	2.32209	0.1438186	3.2294433	15	1	11 days	0.59			Williams	2000 EV ₁₂₂
2000 EA ₁₂₃	14.9	0.15	20000226	334.61955	51.84771	158.20046	19.32726	0.1611573	2.3200366	35	1	68 days	0.38	M-v	4	Williams	2000 EA ₁₂₃
2000 EB ₁₂₃	14.9	0.15	20000317	320.19492	84.01418	143.25742	15.14230	0.0539708	2.6056942	24	1	38 days	0.45			Williams	2000 EB ₁₂₃
2000 EC ₁₂₃	13.4	0.15	20000317	190.10929	286.04992	68.30400	11.61758	0.0662804	3.0707273	23	1	28 days	0.46			Williams	2000 EC ₁₂₃
2000 ED ₁₂₃	15.4	0.15	20000317	37.43499	94.50680	37.91854	14.42409	0.1471144	2.5560649	23	1	28 days	0.41			Williams	2000 ED ₁₂₃
2000 ES ₁₂₃	15.5	0.15	20000226	294.52064	226.21714	7.84110	7.85522	0.0408672	2.4966144	15	1	8 days	0.67			Williams	2000 ES ₁₂₃
2000 EA ₁₂₄	16.5	0.15	20000226	322.06369	88.58530	125.59795	3.58578	0.1476725	2.3672755	33	1	47 days	0.68			Williams	2000 EA ₁₂₄
2000 EB ₁₂₄	15.4	0.15	20000226	354.20901	5.91423	168.50779	8.83249	0.1003226	3.0063033	13	1	11 days	0.33			Williams	2000 EB ₁₂₄
2000 EL ₁₂₄	15.9	0.15	20000226	357.22415	123.65428	44.19809	3.25101	0.1228199	2.3950345	36	1	52 days	0.68			Williams	2000 EL ₁₂₄
2000 EM ₁₂₄	14.0	0.15	20000317	209.95615	192.54122	135.33416	6.50581	0.1672516	2.6776305	32	1	41 days	0.45			Williams	2000 EM ₁₂₄
2000 EV ₁₂₄	15.8	0.15	20000317	266.08478	142.04372	152.23155	7.26148	0.2675090	2.1674957	21	1	28 days	0.51			Williams	2000 EV ₁₂₄
2000 EG ₁₂₅	14.0	0.15	20000226	275.33013	263.19898	15.13056	6.39914	0.2335065	2.7379636	28	1	53 days	0.53			Williams	2000 EG ₁₂₅
2000 EP ₁₂₅	15.7	0.15	20000317	9.53867	19.10398	139.56893	6.02779	0.1831093	2.4223554	17	1	28 days	0.29			Williams	2000 EP ₁₂₅
2000 EW ₁₂₅	16.0	0.15	20000317	70.02139	332.55108	109.58621	3.24340	0.1816030	2.4538215	14	1	28 days	0.46			Williams	2000 EW ₁₂₅
2000 EA ₁₂₆	15.6	0.15	20000317	285.85949	256.30477	13.94470	9.02400	0.2016805	2.3463432	25	1	37 days	0.70			Williams	2000 EA ₁₂₆
2000 ED ₁₂₆	15.3	0.15	20000317	313.86375	117.77087	112.32041	4.97850	0.1177745	2.5876915	19	1	28 days	0.52			Williams	2000 ED ₁₂₆
2000 EH ₁₂₆	15.3	0.15	20000317	309.46320	221.95214	18.23017	9.72628	0.1673383	2.7326292	20	1	37 days	0.57			Williams	2000 EH ₁₂₆
2000 EM ₁₂₆	13.4	0.15	20000317	202.62826	180.51446	157.45284	14.27955	0.1861448	2.6041691	28	1	28 days	0.46			Williams	2000 EM ₁₂₆
2000 ER ₁₂₆	14.1	0.15	20000317	171.17088	221.06001	141.15679	8.86629	0.0365688	3.1550621	13	1	18 days	0.42			Williams	2000 ER ₁₂₆
2000 EU ₁₂₆	14.5	0.15	20000317	147.41547	302.19363	78.97205	3.61547	0.1038326	2.7430422	25	1	37 days	0.50			Williams	2000 EU ₁₂₆
2000 EV ₁₂₆	15.3	0.15	20000317	284.00506	131.42908	141.52902	6.73991	0.1926467	2.2028690	42	1	28 days	0.48			Williams	2000 EV ₁₂₆
2000 EJ ₁₂₇	13.6	0.15	20000317	220.83314	188.63455	130.26106	7.31975	0.0576321	2.8492259	32	1	34 days	0.54			Williams	2000 EJ ₁₂₇
2000 EK ₁₂₇	14.2	0.15	20000317	204.81219	229.90341	104.36924	5.84020	0.0857513	2.7984712	18	1	28 days	0.60			Williams	2000 EK ₁₂₇
2000 EO ₁₂₇	13.5	0.15	20000226	104.37731	241.88082	165.25756	28.95274	0.2308242	3.1393513	16	1	6 days	0.56			Williams	2000 EO ₁₂₇
2000 EP ₁₂₇	16.5	0.15	20000226	34.41348	21.55857	99.30863	4.74621	0.1670027	2.1999269	30	1	57 days	0.52			Williams	2000 EP ₁₂₇
2000 EQ ₁₂₇	12.8	0.15	20000226	69.44208	300.73662	150.87569	13.79072	0.1034624	2.9170651	52	1	94 days	0.48	M-v	4	Williams	2000 EQ ₁₂₇
2000 ER ₁₂₇	15.6	0.15	20000226	359.64516	23.67980	146.37385	7.78117	0.1307168	2.3538105	34	1	61 days	0.39	M-v	4	Williams	2000 ER ₁₂₇
2000 ES ₁₂₇	15.8	0.15	20000317	294.33228	181.60529	77.15627	4.72105	0.1520493	2.2581768	45	1	28 days	0.52			Williams	2000 ES ₁₂₇
2000 EV ₁₂₇	14.2	0.15	20000317	145.57794	1.91441	19.27840	14.02323	0.1652622	2.5688266	21	1	33 days	0.46			Williams	2000 EV ₁₂₇
2000 EX ₁₂₇	13.3	0.15	20000317	255.53799	132.14773	160.07260	11.48464	0.1078451	3.1222323	33	1	36 days	0.53			Williams	2000 EX ₁₂₇
2000 EB ₁₂₈	14.4	0.15	20000317	20.67185	147.75623	1.76045	27.84186	0.1030410	2.8953479	40	1	30 days	0.48			Williams	2000 EB ₁₂₈
2000 EC ₁₂₈	14.6	0.15	20000317	41.17147	348.35286	138.53030	6.04787	0.0990468	3.1156879	24	1	28 days	0.47			Williams	2000 EC ₁₂₈
2000 EF ₁₂₈	16.5	0.15	20000317	27.30534	335.17020	161.91306	11.54343	0.1861534	2.5164759	11	1	15 days	0.50			Williams	2000 EF ₁₂₈
2000 EJ ₁₂₈	15.5	0.15	20000226	324.07748	92.05007	122.27746	3.53697	0.1099487	2.3821453	42	1	63 days	0.46	M-v	4	Williams	2000 EJ ₁₂₈
2000 EL ₁₂₈	16.0	0.15	20000317	48.99281	71.93684	42.37495	3.18397	0.1393575	2.4529625	34	1	39 days	0.47			Williams	2000 EL ₁₂₈
2000 ER ₁₂₈	15.6	0.15	20000317	303.75303	134.90218	102.26147	3.73347	0.0412568	2.7440132	17	1	15 days	0.56			Williams	2000 ER ₁₂₈
2000 EY ₁₂₈	13.8	0.15	20000317	167.52169	208.71742	156.42359	11.04862	0.0585018	2.9896995	30	1	37 days	0.64			Williams	2000 EY ₁₂₈
2000 EZ ₁₂₈	15.3	0.15	20000317	21.31887	142.08654	6.20938	9.22413	0.0970339	2.7965695	15	1	28 days	0.38			Williams	2000 EZ ₁₂₈
2000 ED ₁₂₉	14.3	0.15	20000317	209.16880	322.53944	7.92624	10.25615	0.1094971	3.0024470	16	1	23 days	0.38			Williams	2000 ED ₁₂₉
2000 EE ₁₂₉	15.0	0.15	20000317	355.96413	171.16214	8.98210	6.99722	0.1409366	2.7948638	30	1	30 days	0.61			Williams	2000 EE ₁₂₉
2000 EK ₁₂₉	15.4	0.15	20000317	315.85682	215.24045	20.15370	5.72827	0.1784293	2.3664279	26	1	30 days	0.40			Williams	2000 EK ₁₂₉
2000 EP ₁₂₉	15.0	0.15	20000226	308.60340	211.07169	15.40391	6.15150	0.0672556	2.2734628	68	1	59 days	0.37			Williams	2000 EP ₁₂₉
2000 EQ ₁₂₉	14.8	0.15	20000226	262.87035	133.24817	158.81313	12.83148	0.2239394	2.6133890	33	1	57 days	0.60			Williams	2000 EQ ₁₂₉

2000 ER ₁₂₉	15.3	0.15	20000317	91.72719	65.95074	3.95529	14.68333	0.1153677	2.6624484	15	1	25 days	0.58	Williams	2000 ER ₁₂₉
2000 ET ₁₂₉	14.7	0.15	20000317	248.39021	222.21624	71.57788	3.12660	0.0678370	2.6926082	29	1	37 days	0.52	Williams	2000 ET ₁₂₉
2000 EV ₁₂₉	16.2	0.15	20000317	42.68014	112.11827	14.99927	5.63732	0.0696967	2.3494220	15	1	26 days	0.50	Williams	2000 EV ₁₂₉
2000 EW ₁₂₉	15.8	0.15	20000317	308.71162	187.77732	53.81106	2.17832	0.1459890	2.4303965	31	1	39 days	0.60	Williams	2000 EW ₁₂₉
2000 EX ₁₂₉	13.6	0.15	20000226	270.79394	273.97869	9.96473	9.28610	0.2206121	2.3115920	75	1	93 days	0.43	M-v 5 Williams	2000 EX ₁₂₉
2000 EB ₁₃₀	16.4	0.15	20000317	295.99418	208.33460	45.71022	3.70995	0.1326700	2.2631992	26	1	39 days	0.80	Williams	2000 EB ₁₃₀
2000 EE ₁₃₀	14.6	0.15	20000317	65.74974	81.39139	21.67843	4.63336	0.0291188	3.0518477	21	1	37 days	0.46	Williams	2000 EE ₁₃₀
2000 EF ₁₃₀	12.9	0.15	20000226	108.79517	261.08390	152.71374	7.23131	0.0604992	3.2241011	45	1	64 days	0.49	M-v 5 Williams	2000 EF ₁₃₀
2000 EN ₁₃₀	14.3	0.15	20000317	25.47819	58.42877	88.40525	2.78133	0.0147921	3.0527503	24	1	37 days	0.51	Williams	2000 EN ₁₃₀
2000 EO ₁₃₀	14.9	0.15	20000226	28.79688	14.49335	109.24543	2.93353	0.2188608	3.0561513	16	1	10 days	0.37	Williams	2000 EO ₁₃₀
2000 EU ₁₃₀	13.7	0.15	20000317	210.35325	243.52945	83.41590	3.10532	0.0731818	2.8883896	33	1	39 days	0.49	Williams	2000 EU ₁₃₀
2000 EV ₁₃₀	15.8	0.15	20000317	327.87376	180.86373	37.94817	2.58999	0.1676925	2.3574440	34	1	44 days	0.43	Williams	2000 EV ₁₃₀
2000 EJ ₁₃₁	15.3	0.15	20000317	239.54897	102.73459	199.56049	1.33709	0.0527797	2.7114602	19	1	30 days	0.68	Williams	2000 EJ ₁₃₁
2000 EO ₁₃₁	16.6	0.15	20000317	246.76331	307.29047	353.74361	6.16136	0.1137236	2.2674041	20	1	26 days	0.44	Williams	2000 EO ₁₃₁
2000 EP ₁₃₁	15.0	0.15	20000317	237.49373	323.99522	348.52580	2.27502	0.1524583	2.5183382	26	1	31 days	0.62	Williams	2000 EP ₁₃₁
2000 ER ₁₃₁	16.8	0.15	20000317	343.45628	191.71718	4.96595	6.41085	0.1163148	2.2404563	20	1	26 days	0.51	Williams	2000 ER ₁₃₁
2000 EV ₁₃₁	15.2	0.15	20000317	122.50471	41.13422	4.38344	14.88221	0.0944049	2.5831771	28	1	30 days	0.51	Williams	2000 EV ₁₃₁
2000 EW ₁₃₁	15.6	0.15	20000317	107.53040	247.40232	166.50486	11.11321	0.1562999	2.4737402	28	1	15 days	0.57	Williams	2000 EW ₁₃₁
2000 EF ₁₃₂	15.3	0.15	20000317	304.28569	48.85170	188.83775	10.45695	0.0381263	3.1090766	30	1	33 days	0.57	Williams	2000 EF ₁₃₂
2000 EG ₁₃₂	15.7	0.15	20000317	293.46003	84.46802	183.36291	16.22347	0.2026490	2.7487378	30	1	34 days	0.55	Williams	2000 EG ₁₃₂
2000 EJ ₁₃₂	16.6	0.15	20000317	35.30810	142.40316	349.66841	7.82552	0.1396054	2.5770816	17	1	26 days	0.41	Williams	2000 EJ ₁₃₂
2000 EK ₁₃₂	14.3	0.15	20000226	241.06356	117.18063	186.93835	6.81724	0.1278243	2.3652644	49	1	60 days	0.50	M-v 5 Williams	2000 EK ₁₃₂
2000 EL ₁₃₂	16.0	0.15	20000317	258.73959	311.18858	345.01531	3.86059	0.1635623	2.3736976	23	1	30 days	0.70	Williams	2000 EL ₁₃₂
2000 EM ₁₃₂	16.5	0.15	20000317	357.78378	354.73494	185.64871	2.10707	0.1408236	2.3800749	43	1	44 days	0.56	Williams	2000 EM ₁₃₂
2000 EQ ₁₃₂	17.0	0.15	20000317	312.78422	228.45321	2.48934	3.70782	0.0813066	2.2423641	25	1	28 days	0.62	Williams	2000 EQ ₁₃₂
2000 ES ₁₃₂	16.3	0.15	20000317	297.82547	113.06623	144.33891	3.58350	0.1645814	2.3402543	40	1	30 days	0.59	Williams	2000 ES ₁₃₂
2000 EU ₁₃₂	16.0	0.15	20000317	260.01768	292.22097	357.68611	13.21783	0.1207799	2.5565272	24	1	39 days	1.02	Williams	2000 EU ₁₃₂
2000 EV ₁₃₂	14.9	0.15	20000317	43.17129	323.81587	160.02451	2.47978	0.1162004	3.1664515	32	1	39 days	0.58	Williams	2000 EV ₁₃₂
2000 EW ₁₃₂	14.9	0.15	20000317	201.39065	339.49822	3.14666	8.94425	0.1972634	2.5987382	31	1	26 days	0.51	Williams	2000 EW ₁₃₂
2000 EA ₁₃₃	14.9	0.15	20000317	256.80045	137.68063	152.43985	1.09481	0.0880098	3.1128503	24	1	26 days	0.44	Williams	2000 EA ₁₃₃
2000 EB ₁₃₃	15.7	0.15	20000317	292.86531	247.70567	2.04463	3.57534	0.0490118	2.7876509	36	1	31 days	0.46	Williams	2000 EB ₁₃₃
2000 EE ₁₃₃	16.0	0.15	20000317	267.42781	122.36926	170.85223	6.66393	0.2081744	2.3272633	20	1	26 days	0.49	Williams	2000 EE ₁₃₃
2000 EF ₁₃₃	16.0	0.15	20000317	63.14690	92.74696	1.74098	5.50529	0.1838981	2.5629429	31	1	39 days	0.66	Williams	2000 EF ₁₃₃
2000 EG ₁₃₃	17.1	0.15	20000317	60.37408	109.74526	355.50269	6.38832	0.1143970	2.2563405	26	1	33 days	0.46	Williams	2000 EG ₁₃₃
2000 EJ ₁₃₃	16.5	0.15	20000317	357.41818	359.16311	181.92527	5.65950	0.0622157	2.3366907	37	1	33 days	0.73	Williams	2000 EJ ₁₃₃
2000 ER ₁₃₃	16.3	0.15	20000317	278.39765	159.87093	115.72909	7.61779	0.0931769	2.2447472	27	1	28 days	0.49	Williams	2000 ER ₁₃₃
2000 ET ₁₃₃	14.8	0.15	20000317	58.59985	346.04726	136.20158	11.55004	0.0466260	2.9836700	20	1	23 days	1.00	Williams	2000 ET ₁₃₃
2000 EU ₁₃₃	15.4	0.15	20000317	300.85003	198.97967	65.78081	9.13916	0.1920088	2.7737345	23	1	28 days	0.63	Williams	2000 EU ₁₃₃
2000 EW ₁₃₃	16.2	0.15	20000317	308.34658	166.41948	78.35287	8.31730	0.0830466	2.2899061	23	1	28 days	0.47	Williams	2000 EW ₁₃₃
2000 EZ ₁₃₃	13.1	0.15	20000226	285.19147	141.14903	128.64212	10.94135	0.0686842	2.9689674	28	1	67 days	0.47	M-v 5 Williams	2000 EZ ₁₃₃
2000 EA ₁₃₄	15.2	0.15	20000317	49.00035	25.40508	101.44820	8.71463	0.1438536	2.5929993	17	1	33 days	0.55	Williams	2000 EA ₁₃₄
2000 EB ₁₃₄	15.7	0.15	20000317	26.72002	74.62265	79.59712	7.95753	0.1130177	2.7358768	16	1	25 days	0.26	Williams	2000 EB ₁₃₄
2000 EC ₁₃₄	16.0	0.15	20000317	331.15916	189.42297	39.36471	13.90631	0.2024065	2.5640029	16	1	25 days	0.46	Williams	2000 EC ₁₃₄
2000 ED ₁₃₄	15.0	0.15	20000317	281.59784	163.31724	127.46665	10.82092	0.1992225	2.7870216	22	1	28 days	0.68	Williams	2000 ED ₁₃₄
2000 EH ₁₃₄	16.6	0.15	20000317	288.43427	187.80874	83.77607	7.27320	0.1213728	2.3645449	16	1	25 days	0.45	Williams	2000 EH ₁₃₄
2000 EK ₁₃₄	15.8	0.15	20000317	78.61995	309.95069	149.62662	10.44036	0.0885276	2.5829500	16	1	25 days	0.38	Williams	2000 EK ₁₃₄
2000 EL ₁₃₄	16.1	0.15	20000317	21.36070	53.71634	108.49952	6.33945	0.0710560	2.3243406	18	1	25 days	0.38	Williams	2000 EL ₁₃₄
2000 EP ₁₃₄	14.8	0.15	20000317	67.90708	21.66954	88.13494	3.62702	0.0634576	3.1003182	28	1	30 days	0.49	Williams	2000 EP ₁₃₄
2000 EQ ₁₃₄	16.0	0.15	20000317	307.87240	196.73387	53.79655	3.92185	0.1517743	2.3849259	35	1	30 days	0.49	Williams	2000 EQ ₁₃₄
2000 ET ₁₃₄	16.4	0.15	20000317	330.94422	194.63259	25.78487	6.90203	0.1254654	2.2979334	26	1	30 days	0.53	Williams	2000 ET ₁₃₄
2000 EV ₁₃₄	14.0	0.15	20000317	118.99638	256.12244	164.63543	12.27669	0.0657637	2.8661476	29	1	40 days	0.39	Williams	2000 EV ₁₃₄
2000 EW ₁₃₄	16.0	0.15	20000317	323.48800	178.06575	51.40606	6.59294	0.1202483	2.2311200	26	1	30 days	0.48	Williams	2000 EW ₁₃₄
2000 EB ₁₃₅	14.8	0.15	20000317	308.19630	151.75646	96.15043	3.57167	0.1354938	2.3931581	43	1	30 days	0.52	Williams	2000 EB ₁₃₅

2000 EC ₁₃₅	13.8	0.15	20000226	240.41850	149.56733	165.58641	13.13780	0.1663908	2.6935216	24	1	57 days	0.49	Williams	2000 EC ₁₃₅
2000 ED ₁₃₅	14.9	0.15	20000317	295.05031	115.55813	141.25790	6.21834	0.0733497	2.8425882	16	1	27 days	0.60	Williams	2000 ED ₁₃₅
2000 EF ₁₃₅	14.9	0.15	20000317	231.78883	215.84984	103.18241	4.32486	0.0910366	2.3315356	21	1	27 days	0.38	Williams	2000 EF ₁₃₅
2000 EH ₁₃₅	13.9	0.15	20000317	229.93661	271.76915	46.96394	6.57905	0.0574623	2.7453140	31	1	33 days	0.51	Williams	2000 EH ₁₃₅
2000 EJ ₁₃₅	14.7	0.15	20000317	174.01389	234.71900	133.91146	6.59248	0.1239110	2.4058409	29	1	31 days	0.54	Williams	2000 EJ ₁₃₅
2000 EK ₁₃₅	14.7	0.15	20000317	255.63364	301.67314	13.71116	21.88934	0.2832334	2.3696516	34	1	30 days	0.49	Williams	2000 EK ₁₃₅
2000 EM ₁₃₅	15.0	0.15	20000317	26.13941	56.80785	99.04343	5.01854	0.0339797	2.7069416	26	1	27 days	0.36	Williams	2000 EM ₁₃₅
2000 ER ₁₃₅	15.2	0.15	20000317	357.91518	172.52170	14.53432	21.09302	0.2159416	3.1220270	47	1	30 days	0.52	Williams	2000 ER ₁₃₅
2000 EU ₁₃₅	15.4	0.15	20000317	250.37998	164.15683	149.87127	11.78347	0.2050044	2.3109218	26	1	28 days	0.75	Williams	2000 EU ₁₃₅
2000 EV ₁₃₅	15.4	0.15	20000317	90.22386	17.63971	68.09729	7.08238	0.0629131	2.3185008	30	1	33 days	0.53	Williams	2000 EV ₁₃₅
2000 EW ₁₃₅	13.8	0.15	20000317	252.18871	145.53269	155.29063	15.71938	0.0661930	3.1707575	24	1	30 days	0.52	Williams	2000 EW ₁₃₅
2000 EX ₁₃₅	16.0	0.15	20000317	73.73709	358.93971	101.19262	7.24215	0.0873497	2.4523426	22	1	23 days	0.79	Williams	2000 EX ₁₃₅
2000 EY ₁₃₅	14.1	0.15	20000317	185.75957	277.49663	83.86872	7.77414	0.1083080	3.0113238	20	1	25 days	0.52	Williams	2000 EY ₁₃₅
2000 EA ₁₃₆	16.7	0.15	20000317	40.57486	107.51332	15.77376	5.46105	0.1736320	2.3925431	25	1	39 days	0.35	Williams	2000 EA ₁₃₆
2000 EC ₁₃₆	15.5	0.15	20000317	200.36790	168.82548	180.51059	5.07760	0.2161559	2.2181192	12	1	15 days	0.37	Williams	2000 EC ₁₃₆
2000 EE ₁₃₆	15.8	0.15	20000317	80.91594	66.21207	7.88924	11.84656	0.2591223	2.5461371	15	1	26 days	0.43	Williams	2000 EE ₁₃₆
2000 EH ₁₃₆	15.4	0.15	20000317	237.21637	299.07911	17.94247	9.62152	0.0841754	2.9833864	31	1	27 days	0.56	Williams	2000 EH ₁₃₆
2000 EK ₁₃₆	16.5	0.15	20000317	350.91291	95.00916	103.39050	5.50166	0.2449398	2.4010217	18	1	32 days	0.47	Williams	2000 EK ₁₃₆
2000 EP ₁₃₆	12.8	0.15	20000226	233.10856	178.37138	126.81112	11.73682	0.0859763	3.0015347	30	1	64 days	0.53	M-v 5 Williams	2000 EP ₁₃₆
2000 EQ ₁₃₆	14.9	0.15	20000317	227.38669	169.82660	149.84582	4.83326	0.0970418	2.7569103	23	1	28 days	0.67	Williams	2000 EQ ₁₃₆
2000 ER ₁₃₆	15.8	0.15	20000317	51.14989	84.30125	23.43259	5.60374	0.2056111	2.5584279	29	1	43 days	0.38	Williams	2000 ER ₁₃₆
2000 ES ₁₃₆	15.0	0.15	20000317	13.33787	117.84835	44.88913	3.23369	0.1454030	2.8736509	38	1	46 days	0.43	Williams	2000 ES ₁₃₆
2000 EU ₁₃₆	15.1	0.15	20000317	274.16443	207.95689	65.72360	3.03757	0.0609857	2.5335512	33	1	29 days	0.38	Williams	2000 EU ₁₃₆
2000 EW ₁₃₆	15.3	0.15	20000226	312.66630	227.84211	9.36239	13.11188	0.1640458	2.3504141	55	1	64 days	0.46	M-v 5 Williams	2000 EW ₁₃₆
2000 EX ₁₃₆	15.6	0.15	20000317	282.84687	136.82296	148.57043	5.36169	0.2323837	2.3847069	35	1	43 days	0.62	Williams	2000 EX ₁₃₆
2000 EA ₁₃₇	17.6	0.15	20000317	26.46223	107.72442	15.18834	6.49582	0.3836024	2.6694922	23	1	26 days	0.54	Williams	2000 EA ₁₃₇
2000 EC ₁₃₇	15.1	0.15	20000317	31.99849	40.82423	96.02645	2.63711	0.1885680	3.1164244	29	1	41 days	0.48	Williams	2000 EC ₁₃₇
2000 EE ₁₃₇	13.9	0.15	20000206	271.67144	324.16896	282.88702	13.20119	0.0542729	3.2318160	26	1	36 days	0.65	Williams	2000 EE ₁₃₇
2000 EJ ₁₃₇	13.8	0.15	20000317	261.13277	247.11925	51.45997	11.93498	0.0862275	3.1183912	25	1	34 days	0.34	Williams	2000 EJ ₁₃₇
2000 EK ₁₃₇	14.8	0.15	20000317	283.45272	112.56072	155.95591	14.12279	0.0198048	2.5130868	26	1	37 days	0.46	Williams	2000 EK ₁₃₇
2000 EM ₁₃₇	15.2	0.15	20000226	19.38682	97.28197	55.84531	9.10136	0.1771620	2.3776118	29	1	67 days	0.65	M-v 5 Williams	2000 EM ₁₃₇
2000 EO ₁₃₇	14.3	0.15	20000317	289.96397	135.48631	144.45765	13.10587	0.1618547	2.6130638	26	1	37 days	0.35	Williams	2000 EO ₁₃₇
2000 EQ ₁₃₇	14.5	0.15	20000317	2.53374	54.44596	142.82709	6.47279	0.1757652	2.3945621	27	1	35 days	0.36	Williams	2000 EQ ₁₃₇
2000 ER ₁₃₇	13.9	0.15	20000317	39.87841	342.59841	178.14956	15.93020	0.0672374	2.5492034	17	1	31 days	0.48	Williams	2000 ER ₁₃₇
2000 ES ₁₃₇	13.8	0.15	20000317	19.04650	5.81862	177.08035	14.03848	0.1184853	2.5391943	19	1	35 days	0.32	Williams	2000 ES ₁₃₇
2000 EV ₁₃₇	13.9	0.15	20000317	354.84757	51.55619	161.23449	8.11033	0.1319323	2.6604481	23	1	35 days	0.47	Williams	2000 EV ₁₃₇
2000 EZ ₁₃₇	16.6	0.15	20000226	103.69171	52.22909	336.95395	2.58265	0.2731725	2.4000102	14	1	12 days	0.41	Williams	2000 EZ ₁₃₇
2000 EJ ₁₃₈	15.5	0.15	20000226	137.09684	24.87105	343.65033	3.45925	0.2433425	2.9509046	14	1	12 days	0.71	Williams	2000 EJ ₁₃₈
2000 EM ₁₃₈	15.2	0.15	20000317	13.93706	115.41276	49.80317	10.94439	0.1231187	2.6906285	23	1	28 days	0.45	Williams	2000 EM ₁₃₈
2000 EN ₁₃₈	13.2	0.15	20000226	334.83527	68.80714	146.80861	15.27671	0.1589282	2.7874115	48	1	97 days	0.50	M-v 4 Williams	2000 EN ₁₃₈
2000 EO ₁₃₈	14.0	0.15	20000317	294.71486	226.58282	43.30792	17.78203	0.1706612	2.7793177	23	1	28 days	0.56	Williams	2000 EO ₁₃₈
2000 EP ₁₃₈	15.4	0.15	20000317	35.78764	71.13563	68.93288	11.20383	0.1333742	2.6356825	21	1	28 days	0.51	Williams	2000 EP ₁₃₈
2000 EQ ₁₃₈	13.9	0.15	20000226	293.98092	128.98364	135.82203	14.48895	0.1403791	2.5555928	31	1	97 days	0.47	M-v 4 Williams	2000 EQ ₁₃₈
2000 ER ₁₃₈	13.2	0.15	20000317	255.32880	143.26610	153.55769	22.87560	0.0516271	3.1434620	41	1	34 days	0.61	Williams	2000 ER ₁₃₈
2000 ES ₁₃₈	14.3	0.15	20000317	183.06318	249.31836	112.94243	12.65711	0.1318059	2.7148330	22	1	28 days	0.65	Williams	2000 ES ₁₃₈
2000 EU ₁₃₈	14.0	0.15	20000317	269.93650	189.77208	96.85107	12.48695	0.0921853	3.0399471	22	1	28 days	0.40	Williams	2000 EU ₁₃₈
2000 EV ₁₃₈	14.1	0.15	20000317	269.79749	222.04085	70.64751	13.19532	0.1448894	2.6223043	30	1	33 days	0.81	Williams	2000 EV ₁₃₈
2000 EW ₁₃₈	14.1	0.15	20000226	90.26954	346.03177	91.07942	12.04352	0.1134319	2.2970035	35	1	70 days	0.44	M-v 4 Williams	2000 EW ₁₃₈
2000 EY ₁₃₈	14.2	0.15	20000317	46.66648	63.14578	68.41824	15.95287	0.0916767	3.1671622	31	1	34 days	0.59	Williams	2000 EY ₁₃₈
2000 EK ₁₃₉	16.9	0.15	20000226	66.94594	90.64855	345.11876	4.95284	0.2372324	2.3907588	11	1	12 days	0.29	Williams	2000 EK ₁₃₉
2000 EP ₁₃₉	15.2	0.15	20000317	352.57742	119.41432	78.84943	13.69961	0.1433755	2.7120245	26	1	28 days	0.52	Williams	2000 EP ₁₃₉
2000 EQ ₁₃₉	13.9	0.15	20000226	297.89546	195.34288	57.73231	7.07098	0.1107813	2.4433572	24	1	88 days	0.44	M-v 5 Williams	2000 EQ ₁₃₉
2000 ES ₁₃₉	14.7	0.15	20000317	184.08578	307.36197	56.16627	9.31397	0.0513099	2.5430367	28	1	32 days	0.46	Williams	2000 ES ₁₃₉

2000 APR. 18

M.P.C. 40493

2000 ET ₁₃₉	15.3	0.15	20000317	327.65805	79.16134	151.26977	12.57269	0.1395801	2.5638250	27	1	32 days	0.32	Williams	2000 ET ₁₃₉
2000 EU ₁₃₉	13.7	0.15	20000317	45.40096	323.85891	165.89250	25.85833	0.1291478	3.2017215	28	1	29 days	0.60	Williams	2000 EU ₁₃₉
2000 EW ₁₃₉	14.1	0.15	20000317	29.67469	81.15222	72.43599	9.71151	0.0315811	2.9901965	27	1	32 days	0.27	Williams	2000 EW ₁₃₉
2000 EX ₁₃₉	14.7	0.15	20000317	262.27719	242.45209	46.49707	12.41323	0.0432864	2.5624035	18	1	24 days	0.31	Williams	2000 EX ₁₃₉
2000 EY ₁₃₉	13.1	0.15	20000226	306.74528	153.92033	92.89851	10.13257	0.1012232	2.8097285	30	1	64 days	0.64	M-v 5 Williams	2000 EY ₁₃₉
2000 EB ₁₄₀	15.8	0.15	20000317	298.50989	60.33382	192.00857	5.57107	0.1242810	2.2392745	47	1	31 days	0.66	Williams	2000 EB ₁₄₀
2000 EC ₁₄₀	16.7	0.15	20000317	282.47636	182.73997	95.77833	8.14190	0.2376170	2.1754104	21	1	18 days	0.72	Williams	2000 EC ₁₄₀
2000 ED ₁₄₀	16.8	0.15	20000317	353.78980	15.61633	70.23025	23.50358	0.0698288	1.9531211	10	1	29 days	0.15	Williams	2000 ED ₁₄₀
2000 EE ₁₄₀	13.7	0.15	20000317	166.62010	260.56430	109.48525	9.15331	0.0316002	2.7434882	22	1	34 days	0.45	Williams	2000 EE ₁₄₀
2000 EJ ₁₄₀	13.3	0.15	20000226	296.70608	69.37677	163.69952	30.21378	0.1840328	2.7228868	30	1	91 days	0.58	M-v 4 Williams	2000 EJ ₁₄₀
2000 EK ₁₄₀	12.8	0.15	20000226	123.97459	200.63668	176.69454	16.33322	0.1150629	3.1729609	22	1	88 days	0.55	M-v 4 Williams	2000 EK ₁₄₀
2000 EA ₁₄₁	16.4	0.15	20000226	356.00141	101.37077	63.89928	5.86425	0.1124358	2.2779943	26	1	53 days	0.37	Williams	2000 EA ₁₄₁
2000 EL ₁₄₁	15.5	0.15	20000317	15.02887	25.61244	127.73906	2.06176	0.1193269	3.1948184	21	1	34 days	0.80	Williams	2000 EL ₁₄₁
2000 EN ₁₄₁	16.1	0.15	20000317	339.04655	44.74455	158.64812	4.90283	0.1541569	2.5741118	32	1	37 days	0.52	Williams	2000 EN ₁₄₁
2000 EQ ₁₄₁	13.2	0.15	20000317	265.96385	125.07218	164.29636	16.85308	0.1711488	3.1357440	39	1	39 days	0.75	Williams	2000 EQ ₁₄₁
2000 ER ₁₄₁	13.8	0.15	20000226	253.16368	283.15701	11.60647	6.44332	0.1690644	2.2798640	39	1	60 days	0.39	M-v 5 Williams	2000 ER ₁₄₁
2000 ES ₁₄₁	16.0	0.15	20000317	9.12861	18.60552	145.63402	5.62236	0.1229154	2.3291451	33	1	37 days	0.46	Williams	2000 ES ₁₄₁
2000 EU ₁₄₁	14.7	0.15	20000317	92.79333	4.00154	81.54348	9.50436	0.1579301	2.4906358	16	1	36 days	0.50	Williams	2000 EU ₁₄₁
2000 EV ₁₄₁	15.9	0.15	20000317	17.54602	71.52846	91.41450	8.88738	0.2004057	2.3378582	17	1	42 days	0.52	Williams	2000 EV ₁₄₁
2000 EY ₁₄₁	12.7	0.15	20000226	351.17836	51.72222	153.62842	16.96724	0.0795767	3.2115999	34	1	68 days	0.38	M-v 4 Williams	2000 EY ₁₄₁
2000 EA ₁₄₄	13.7	0.15	20000226	200.38747	105.39054	218.91188	11.92520	0.2267010	2.6466675	28	1	57 days	0.91	Williams	2000 EA ₁₄₄
2000 EX ₁₄₄	15.1	0.15	20000317	292.49394	342.96968	285.26986	2.29989	0.1655945	2.3508377	32	1	40 days	0.59	Williams	2000 EX ₁₄₄
2000 EZ ₁₄₄	14.5	0.15	20000317	344.20724	13.93145	190.11917	15.05398	0.1441801	3.1545713	40	1	36 days	0.38	Williams	2000 EZ ₁₄₄
2000 EC ₁₄₅	13.5	0.15	20000317	223.48664	128.13568	200.44908	9.22209	0.0947777	3.0585223	34	1	38 days	0.51	Williams	2000 EC ₁₄₅
2000 EF ₁₄₅	15.1	0.15	20000317	299.45115	50.84139	200.35208	8.63216	0.0746045	2.5313897	22	1	36 days	0.57	Williams	2000 EF ₁₄₅
2000 EJ ₁₄₅	14.8	0.15	20000317	76.87641	258.22474	201.19756	8.55245	0.0764906	2.6361904	35	1	38 days	0.43	Williams	2000 EJ ₁₄₅
2000 EK ₁₄₅	15.2	0.15	20000317	29.45504	281.96029	220.44826	4.64236	0.1952343	2.5722141	41	1	38 days	0.49	Williams	2000 EK ₁₄₅
2000 EL ₁₄₅	14.9	0.15	20000317	351.92264	251.04717	308.69275	3.62672	0.1848805	3.0702526	26	1	38 days	0.62	Williams	2000 EL ₁₄₅
2000 ES ₁₄₅	16.4	0.15	20000317	48.50095	125.18322	343.29811	2.10393	0.1812698	2.3783864	26	1	39 days	0.64	Williams	2000 ES ₁₄₅
2000 EW ₁₄₅	14.1	0.15	20000226	41.79914	337.15454	131.30307	14.27542	0.1244515	2.7338265	40	1	119 days	0.46	M-v 4 Williams	2000 EW ₁₄₅
2000 EZ ₁₄₅	15.4	0.15	20000206	275.67265	310.33888	302.43992	15.66596	0.1402324	2.5672733	18	1	30 days	0.68	Williams	2000 EZ ₁₄₅
2000 EN ₁₄₆	16.6	0.15	20000206	301.47700	128.75082	87.73882	5.25648	0.1251135	2.2386189	21	1	34 days	0.52	Williams	2000 EN ₁₄₆
2000 EO ₁₄₆	14.9	0.15	20000206	249.05435	148.66735	121.86149	11.61783	0.1377109	2.5771594	20	1	34 days	0.70	Williams	2000 EO ₁₄₆
2000 EV ₁₄₆	14.9	0.15	20000226	27.57259	89.28215	27.08857	12.16508	0.2475721	2.5624631	25	1	61 days	0.39	M-v 4 Williams	2000 EV ₁₄₆
2000 EY ₁₄₆	14.9	0.15	20000317	17.17986	49.39284	95.72264	9.55605	0.1809077	2.4762229	27	1	38 days	0.54	Williams	2000 EY ₁₄₆
2000 EZ ₁₄₆	14.2	0.15	20000317	356.81120	48.82292	125.40012	16.98577	0.1387519	3.0968878	20	1	29 days	0.49	Williams	2000 EZ ₁₄₆
2000 EG ₁₄₇	15.9	0.15	20000317	340.97930	200.43254	10.59788	3.54480	0.1001444	2.3987996	51	1	38 days	0.42	Williams	2000 EG ₁₄₇
2000 EH ₁₄₇	15.1	0.15	20000317	322.61913	266.66100	321.92763	3.39213	0.0369482	2.7601439	19	1	35 days	0.60	Williams	2000 EH ₁₄₇
2000 EL ₁₄₇	15.0	0.15	20000317	250.10375	322.82929	340.96160	2.96625	0.0450480	2.6349735	54	1	37 days	0.56	Williams	2000 EL ₁₄₇
2000 EM ₁₄₇	13.8	0.15	20000317	184.32820	11.45107	355.87077	7.91766	0.0762546	3.0662296	24	1	35 days	0.55	Williams	2000 EM ₁₄₇
2000 EQ ₁₄₇	14.7	0.15	20000317	288.58406	63.27677	218.22527	3.99271	0.1506996	3.0989608	22	1	37 days	0.65	Williams	2000 EQ ₁₄₇
2000 EW ₁₄₇	12.5	0.15	20000317	240.84844	228.77829	69.29343	14.96222	0.0747042	3.2023397	20	1	35 days	0.46	Williams	2000 EW ₁₄₇
2000 EA ₁₄₈	14.4	0.15	20000317	267.45899	104.40871	191.58052	9.39288	0.0990063	3.0805218	49	1	39 days	0.38	Williams	2000 EA ₁₄₈
2000 EB ₁₄₈	15.7	0.15	20000317	5.94384	2.69766	178.77239	6.05474	0.1236148	2.5221342	36	1	37 days	0.45	Williams	2000 EB ₁₄₈
2000 EC ₁₄₈	14.0	0.15	20000317	46.31886	318.86291	184.18384	15.66589	0.0326407	3.1414876	41	1	37 days	0.55	Williams	2000 EC ₁₄₈
2000 ED ₁₄₈	14.7	0.15	20000317	1.11991	182.04116	8.44246	2.80879	0.0900931	2.9915495	54	1	37 days	0.40	Williams	2000 ED ₁₄₈
2000 EE ₁₄₈	14.0	0.15	20000317	58.00668	112.35791	13.83784	14.86589	0.0606645	2.6108120	53	1	37 days	0.38	Williams	2000 EE ₁₄₈
2000 EG ₁₄₈	14.9	0.15	20000317	336.94715	207.61629	11.32271	9.89817	0.0905328	2.7640900	45	1	37 days	0.67	Williams	2000 EG ₁₄₈
2000 EH ₁₄₈	14.9	0.15	20000317	63.39484	287.34056	184.01829	12.42306	0.1491850	2.6471169	32	1	37 days	0.41	Williams	2000 EH ₁₄₈
2000 EQ ₁₄₈	14.8	0.15	20000317	273.47246	275.43401	17.28002	7.34303	0.1308770	2.3650094	45	1	37 days	0.43	Williams	2000 EQ ₁₄₈
2000 ET ₁₄₈	14.6	0.15	20000226	5.74814	265.36068	269.80742	1.29632	0.1446049	2.4131982	34	1	68 days	0.35	M-v 5 Williams	2000 ET ₁₄₈
2000 EV ₁₄₈	15.1	0.15	20000317	350.71914	207.26978	355.88919	5.28280	0.0978981	2.4097345	33	1	38 days	0.42	Williams	2000 EV ₁₄₈
2000 EX ₁₄₈	14.6	0.15	20000317	80.93376	89.56932	6.83263	12.14530	0.1583381	2.5775400	37	1	37 days	0.61	Williams	2000 EX ₁₄₈

2000 EY ₁₄₈	14.5	0.15	20000317	273.84491	299.53603	5.49404	12.30182	0.1938191	2.6489940	25	1	37 days	0.59		Williams	2000 EY ₁₄₈
2000 EZ ₁₄₈	14.8	0.15	20000226	314.20930	301.21786	7.58074	10.80561	0.6143949	2.5816669	127	1	42 days	0.52	M-v 6	Williams	2000 EZ ₁₄₈
2000 ED ₁₄₉	14.8	0.15	20000206	280.67323	205.10489	36.65746	6.08309	0.1172478	3.0933181	16	1	34 days	0.44		Williams	2000 ED ₁₄₉
2000 EU ₁₄₉	15.2	0.15	20000226	337.92477	56.82150	140.64419	13.54437	0.0983145	2.7196919	24	1	57 days	0.51		Williams	2000 EU ₁₄₉
2000 EV ₁₄₉	13.7	0.15	20000317	101.90881	316.16623	103.21400	15.40079	0.1733006	2.5727252	21	1	34 days	0.42		Williams	2000 EV ₁₄₉
2000 EA ₁₅₀	13.0	0.15	20000226	12.78793	46.15841	118.49727	13.30490	0.1009797	2.6957467	40	1	97 days	0.37	M-v 4	Williams	2000 EA ₁₅₀
2000 EL ₁₅₀	14.3	0.15	20000226	210.36575	320.72355	355.73667	5.68497	0.0571928	2.7491624	17	1	8 days	0.40		Williams	2000 EL ₁₅₀
2000 EP ₁₅₀	13.7	0.15	20000226	343.26444	236.94016	314.72993	0.40060	0.1080903	3.1057423	51	1	60 days	0.49	M-v 4	Williams	2000 EP ₁₅₀
2000 ES ₁₅₀	15.0	0.15	20000317	286.57966	84.88229	166.64270	6.46723	0.0296639	2.4417348	56	1	43 days	0.55		Williams	2000 ES ₁₅₀
2000 EU ₁₅₀	16.4	0.15	20000317	24.74329	356.28411	145.87540	2.54779	0.1500651	2.3763978	39	1	41 days	0.60		Williams	2000 EU ₁₅₀
2000 EW ₁₅₀	14.7	0.15	20000317	321.25155	75.22086	144.94237	2.08025	0.0687771	2.9526574	23	1	39 days	0.39		Williams	2000 EW ₁₅₀
2000 EY ₁₅₀	14.3	0.15	20000317	96.13113	238.40267	193.29867	8.15598	0.1283361	2.7497152	48	1	36 days	0.51		Williams	2000 EY ₁₅₀
2000 EE ₁₅₁	14.6	0.15	20000226	309.93608	167.82298	82.31294	3.09690	0.1842482	2.3790864	55	1	62 days	0.46	M-v 5	Williams	2000 EE ₁₅₁
2000 EG ₁₅₁	13.9	0.15	20000317	303.79809	195.85767	71.70206	13.12754	0.2078817	2.6539744	34	1	39 days	0.41		Williams	2000 EG ₁₅₁
2000 EH ₁₅₁	15.3	0.15	20000317	309.66331	102.44074	154.90009	21.10164	0.1662900	2.3946391	16	1	30 days	0.63		Williams	2000 EH ₁₅₁
2000 EJ ₁₅₁	14.2	0.15	20000226	47.07499	64.84879	60.10579	14.32465	0.1185018	2.5719957	30	1	69 days	0.47	M-v 5	Williams	2000 EJ ₁₅₁
2000 EO ₁₅₁	14.2	0.15	20000226	302.43936	319.60809	254.34846	16.39136	0.1499226	2.6111418	24	1	83 days	0.48	M-v 4	Williams	2000 EO ₁₅₁
2000 ER ₁₅₁	14.4	0.15	20000206	334.26932	271.32589	263.76988	9.70529	0.1207060	2.7222105	15	1	32 days	0.55		Williams	2000 ER ₁₅₁
2000 EM ₁₅₂	14.9	0.15	20000226	6.23578	229.43067	287.48342	2.69383	0.0851758	2.3402158	37	1	66 days	0.63	M-v 5	Williams	2000 EM ₁₅₂
2000 ER ₁₅₂	15.1	0.15	20000226	305.47385	102.43304	123.88490	3.59865	0.0730096	2.5839081	26	1	47 days	0.52		Williams	2000 ER ₁₅₂
2000 EV ₁₅₂	15.5	0.15	20000226	62.00084	27.72618	60.60003	3.29898	0.1308534	2.1770383	35	1	57 days	0.48		Williams	2000 EV ₁₅₂
2000 EY ₁₅₂	13.4	0.15	20000317	44.50639	118.91047	7.40759	10.61879	0.0480855	3.0833095	22	1	35 days	0.64		Williams	2000 EY ₁₅₂
2000 ED ₁₅₃	15.0	0.15	20000317	322.07168	41.04395	175.12664	13.82747	0.0492678	2.8597875	32	1	40 days	0.52		Williams	2000 ED ₁₅₃
2000 EE ₁₅₃	14.7	0.15	20000317	252.37340	89.21179	198.54517	1.64746	0.0511329	2.9064949	35	1	39 days	0.60		Williams	2000 EE ₁₅₃
2000 ET ₁₅₃	15.3	0.15	20000226	346.12159	189.08331	0.60777	12.92377	0.1545887	2.7648641	36	1	55 days	0.45		Williams	2000 ET ₁₅₃
2000 ED ₁₅₄	14.5	0.15	20000317	9.31286	120.34311	46.16387	9.46013	0.0320185	2.9940831	14	1	28 days	0.38		Williams	2000 ED ₁₅₄
2000 EJ ₁₅₄	14.4	0.15	20000317	307.47483	60.61876	196.06777	11.77026	0.2023599	2.6217527	28	1	36 days	0.43		Williams	2000 EJ ₁₅₄
2000 EN ₁₅₄	13.3	0.15	20000317	220.95977	77.01161	258.61390	1.34617	0.0570542	2.6878979	35	1	35 days	0.34		Williams	2000 EN ₁₅₄
2000 EO ₁₅₄	13.9	0.15	20000317	173.66865	23.11873	354.52322	2.03521	0.0726139	2.9199625	46	1	37 days	0.51		Williams	2000 EO ₁₅₄
2000 ET ₁₅₄	13.8	0.15	20000317	289.13127	128.98123	154.21750	15.64132	0.1732036	2.7514572	27	1	38 days	0.54		Williams	2000 ET ₁₅₄
2000 EU ₁₅₄	13.7	0.15	20000317	239.26736	193.36441	139.88729	17.66396	0.2217209	2.7399401	25	1	33 days	0.65		Williams	2000 EU ₁₅₄
2000 EY ₁₅₄	14.9	0.15	20000317	356.43691	70.84687	125.81173	11.17008	0.0864486	2.6643641	29	1	37 days	0.54		Williams	2000 EY ₁₅₄
2000 EC ₁₅₅	14.4	0.15	20000317	6.48824	197.65234	335.00761	10.64837	0.0985412	2.9656814	18	1	29 days	0.56		Williams	2000 EC ₁₅₅
2000 EL ₁₅₅	14.2	0.15	20000317	317.20843	7.64000	220.75355	9.44296	0.0779624	3.0386783	13	1	24 days	0.58		Williams	2000 EL ₁₅₅
2000 EE ₁₅₇	15.2	0.15	20000317	39.32045	16.14325	133.98718	15.48555	0.0394767	2.6462616	21	1	28 days	0.53		Williams	2000 EE ₁₅₇
2000 EF ₁₅₇	14.2	0.15	20000317	283.48208	160.63607	135.25899	18.65046	0.1815122	3.0815475	20	1	25 days	0.55		Williams	2000 EF ₁₅₇
2000 EG ₁₅₇	15.3	0.15	20000317	332.59043	111.00580	120.25763	14.00680	0.1373018	2.5655773	24	1	43 days	0.51		Williams	2000 EG ₁₅₇
2000 EJ ₁₅₇	14.8	0.15	20000317	287.05544	190.48490	80.53838	15.74067	0.0717179	2.6925967	22	1	28 days	0.56		Williams	2000 EJ ₁₅₇
2000 EX ₁₅₇	15.5	0.15	20000317	336.43508	258.66511	312.73479	4.50830	0.1114277	2.3236487	30	1	40 days	0.95		Williams	2000 EX ₁₅₇
2000 EZ ₁₅₇	15.8	0.15	20000317	33.41653	291.99554	202.06077	10.58987	0.1917952	2.3250408	18	1	27 days	0.40		Williams	2000 EZ ₁₅₇
2000 EC ₁₅₈	13.7	0.15	20000317	336.81742	241.30960	336.06651	14.06457	0.1315636	3.1779111	13	1	26 days	0.36		Williams	2000 EC ₁₅₈
2000 EK ₁₅₈	14.8	0.15	20000317	15.09948	283.95939	237.05677	11.82403	0.2057205	2.6733182	23	1	29 days	0.43		Williams	2000 EK ₁₅₈
2000 EZ ₁₅₈	13.4	0.15	20000317	31.78205	322.07281	206.57077	13.06060	0.0988257	2.5883710	25	1	31 days	0.44		Williams	2000 EZ ₁₅₈
2000 EF ₁₆₂	17.7	0.15	20000226	17.90927	142.70401	355.09740	6.56746	0.2065445	2.6280096	14	1	8 days	0.68	E	Williams	2000 EF ₁₆₂
2000 EB ₁₆₄	15.9	0.15	20000317	304.85570	80.93342	171.96224	9.00287	0.2248334	2.5942516	27	1	41 days	0.66		Williams	2000 EB ₁₆₄
2000 EF ₁₆₄	14.7	0.15	20000317	12.81897	259.21981	260.11636	1.25815	0.0536047	2.7402795	18	1	34 days	0.49		Williams	2000 EF ₁₆₄
2000 EN ₁₆₄	15.5	0.15	20000317	306.31364	267.55867	330.48141	3.60103	0.0970222	2.2596603	18	1	34 days	0.35		Williams	2000 EN ₁₆₄
2000 EZ ₁₆₄	15.2	0.15	20000317	266.02774	139.84385	149.96055	2.45836	0.2010612	2.3816405	16	1	34 days	0.55		Williams	2000 EZ ₁₆₄
2000 EA ₁₆₅	17.0	0.15	20000317	25.76329	138.86602	358.61477	4.44633	0.1804330	2.5523885	21	1	34 days	0.41		Williams	2000 EA ₁₆₅
2000 EB ₁₆₅	15.8	0.15	20000317	206.96213	167.81996	165.16055	6.38847	0.1312111	2.2881803	27	1	39 days	0.42		Williams	2000 EB ₁₆₅
2000 EC ₁₆₅	14.7	0.15	20000317	328.81235	213.49975	355.93057	11.10896	0.0638325	3.0675639	37	1	39 days	0.51		Williams	2000 EC ₁₆₅
2000 EL ₁₆₅	16.1	0.15	20000317	318.18643	201.17615	24.90131	1.45752	0.1102320	2.4177357	38	1	41 days	0.54		Williams	2000 EL ₁₆₅
2000 EN ₁₆₅	14.3	0.15	20000317	14.54351	146.22869	10.69678	5.31232	0.1114550	3.1761662	21	1	39 days	0.44		Williams	2000 EN ₁₆₅

2000 EO ₁₆₅	14.7	0.15	20000317	250.27131	307.32033	354.94437	11.86139	0.1842838	2.8441593	21	1	34 days	0.57		Williams	2000 EO ₁₆₅
2000 ER ₁₆₅	15.1	0.15	20000317	279.59276	269.11929	355.55145	4.35143	0.0791018	2.7621271	37	1	39 days	0.38		Williams	2000 ER ₁₆₅
2000 EO ₁₆₆	14.3	0.15	20000317	351.23378	172.44745	0.15044	19.47936	0.0653623	1.9377125	20	1	37 days	0.51		Williams	2000 EO ₁₆₆
2000 EW ₁₆₈	12.8	0.15	20000226	329.57523	142.15183	64.36455	11.93082	0.1730769	3.0461672	26	1	93 days	0.40	M-v 4	Williams	2000 EW ₁₆₈
2000 ES ₁₆₉	14.4	0.15	20000226	24.85001	81.20515	43.65220	12.15128	0.2371824	2.6959331	25	1	65 days	0.41	M-v 4	Williams	2000 ES ₁₆₉
2000 EU ₁₆₉	13.4	0.15	20000317	166.76195	288.13235	77.34676	13.22927	0.0124010	3.0682480	17	1	35 days	0.37		Williams	2000 EU ₁₆₉
2000 ER ₁₇₀	14.1	0.15	20000226	120.09988	320.59623	75.51368	7.77957	0.1134417	2.3256620	35	1	93 days	0.64	M-v 4	Williams	2000 ER ₁₇₀
2000 EY ₁₇₀	14.4	0.15	20000317	301.14292	140.94013	102.62670	7.14230	0.0923677	2.3958417	22	1	33 days	0.45		Williams	2000 EY ₁₇₀
2000 EC ₁₇₁	14.2	0.15	20000317	151.97556	263.11078	118.59084	11.82957	0.0330329	2.6950543	22	1	34 days	0.50		Williams	2000 EC ₁₇₁
2000 EE ₁₇₁	14.4	0.15	20000317	273.92812	240.56608	30.97925	12.45141	0.0868049	2.5767209	19	1	34 days	0.54		Williams	2000 EE ₁₇₁
2000 EG ₁₇₁	14.5	0.15	20000317	2.65110	73.94793	98.09703	9.53957	0.1135504	2.9859367	12	1	34 days	0.56		Williams	2000 EG ₁₇₁
2000 EA ₁₇₂	14.8	0.15	20000226	320.18094	332.37001	248.09333	3.90937	0.1347720	2.3310819	36	1	63 days	0.68	M-v 5	Williams	2000 EA ₁₇₂
2000 FC	15.8	0.15	20000317	74.51916	178.07083	253.40616	4.11942	0.2487806	2.5674672	8	1	2 days	0.36		Marsden	2000 FC
2000 FE	14.4	0.15	20000317	311.19466	157.85435	75.36262	2.61278	0.0821695	3.1118941	47	1	39 days	0.63		Williams	2000 FE
2000 FL	14.7	0.15	20000317	79.57044	24.75715	72.72655	6.83329	0.1191739	2.2573687	25	1	16 days	0.80		Williams	2000 FL
2000 FN	12.9	0.15	20000317	275.16303	174.57300	127.25939	7.12120	0.2099684	2.2164473	22	1	19 days	0.83		Williams	2000 FN
2000 FO	16.6	0.15	20000317	271.54191	61.85037	239.11159	1.30315	0.1949463	2.5919101	13	1	11 days	0.24		Williams	2000 FO
2000 FP	16.7	0.15	20000317	20.75949	168.19609	356.47699	3.14403	0.1174375	3.1245863	20	1	12 days	0.33		Williams	2000 FP
2000 FQ	17.7	0.15	20000317	236.76028	314.16603	3.21907	5.18917	0.0369584	2.5653296	9	1	2 days	0.22	E	Williams	2000 FQ
2000 FR	11.4	0.15	20000317	73.10728	20.10108	12.14646	33.93511	0.1154352	5.1387675	29	1	20 days	0.38		Williams	2000 FR
2000 FT	16.8	0.15	20000317	26.70510	135.26058	359.27730	20.02599	0.0827862	1.8894614	17	1	8 days	0.53		Williams	2000 FT
2000 FU	14.9	0.15	20000226	302.43171	179.68584	28.73022	21.08439	0.0277604	1.9147081	19	1	88 days	0.53	M-v 4	Williams	2000 FU
2000 FV	15.3	0.15	20000317	278.15854	262.58081	14.72072	11.56433	0.0920831	3.0434879	16	1	11 days	0.52		Williams	2000 FV
2000 FY	15.5	0.15	20000317	223.81484	296.97024	42.69717	2.48064	0.2923792	2.3842889	9	1	10 days	0.43		Williams	2000 FY
2000 FZ	14.4	0.15	20000317	191.99733	335.08541	24.27141	2.62568	0.2341000	2.8777362	10	1	10 days	0.65		Williams	2000 FZ
2000 FA ₁	16.7	0.15	20000317	343.79623	47.18398	160.57803	1.38046	0.1562865	2.9030423	11	1	10 days	0.60		Williams	2000 FA ₁
2000 FB ₁	11.6	0.15	20000317	141.33376	312.70730	359.59940	25.50357	0.2574804	3.0303168	13	1	10 days	0.41		Williams	2000 FB ₁
2000 FC ₁	10.1	0.15	20000317	110.00730	308.63965	42.90391	23.83110	0.1283093	5.0989732	20	1	10 days	0.54		Williams	2000 FC ₁
2000 FE ₁	13.0	0.15	20000406	299.42776	185.33361	93.62991	9.85468	0.0949768	2.7655323	46	1	13 days	0.76		Williams	2000 FE ₁
2000 FF ₁	16.1	0.15	20000317	350.95455	100.98852	93.83750	22.50031	0.2782121	2.2831648	23	1	17 days	0.39		Williams	2000 FF ₁
2000 FH ₁	13.3	0.15	20000317	245.57825	275.05056	34.87992	16.10458	0.2738572	3.0656900	25	1	13 days	0.63		Williams	2000 FH ₁
2000 FM ₁	15.3	0.15	20000317	191.96348	356.30999	9.04523	11.34589	0.2697241	2.7109946	9	1	12 days	0.19		Williams	2000 FM ₁
2000 FO ₁	17.4	0.15	20000317	5.58351	349.89744	193.91703	12.85009	0.1060631	3.1495022	15	1	18 days	0.21		Williams	2000 FO ₁
2000 FS ₁	16.8	0.15	20000317	180.48944	176.56647	195.31385	5.20860	0.1783767	2.6927449	12	1	11 days	0.17		Williams	2000 FS ₁
2000 FX ₁	15.5	0.15	20000317	279.80682	202.43332	116.80769	0.30327	0.4076697	3.2542045	9	1	14 days	0.36		Williams	2000 FX ₁
2000 FA ₂	15.3	0.15	20000317	343.32470	33.35274	178.56861	1.44477	0.0805871	2.9655477	56	1	32 days	0.52		Williams	2000 FA ₂
2000 FB ₂	17.9	0.15	20000317	314.84231	58.04278	189.17983	4.68823	0.1195821	2.5649472	9	1	17 days	0.19		Williams	2000 FB ₂
2000 FC ₂	16.2	0.15	20000317	250.82254	298.05863	27.05186	2.75589	0.2233799	3.0817419	13	1	12 days	0.64		Williams	2000 FC ₂
2000 FD ₂	16.3	0.15	20000317	16.10135	343.12625	188.74638	5.74762	0.0819528	2.4101715	35	1	17 days	0.54		Williams	2000 FD ₂
2000 FE ₂	15.0	0.15	20000317	310.93244	185.60188	66.65983	0.80000	0.1058319	3.0745867	38	1	16 days	0.56		Williams	2000 FE ₂
2000 FF ₂	15.0	0.15	20000317	304.70302	65.50780	190.94711	9.13124	0.0767196	2.9961610	23	1	13 days	0.38		Williams	2000 FF ₂
2000 FG ₂	18.1	0.15	20000317	23.26902	335.87565	182.37680	2.80531	0.1506479	2.2714371	16	1	12 days	0.37		Williams	2000 FG ₂
2000 FK ₂	15.9	0.15	20000317	327.21484	47.02874	193.33923	22.33063	0.1882642	3.0942763	20	1	16 days	0.45		Williams	2000 FK ₂
2000 FM ₂	14.9	0.15	20000317	182.23873	182.56449	191.59142	12.73654	0.2151806	2.6194367	24	1	12 days	0.37		Williams	2000 FM ₂
2000 FN ₂	14.7	0.15	20000317	308.55691	75.85912	184.86336	5.58805	0.1438990	3.1562988	31	1	13 days	0.23		Williams	2000 FN ₂
2000 FO ₂	16.7	0.15	20000317	300.24959	58.26515	199.72635	6.27427	0.0892868	2.3243616	24	1	16 days	0.60		Williams	2000 FO ₂
2000 FP ₂	17.0	0.15	20000317	239.93720	329.30981	359.49865	4.45142	0.2083883	2.2504246	9	1	3 days	0.15	E	Williams	2000 FP ₂
2000 FQ ₂	16.7	0.15	20000317	46.93586	285.05417	209.13481	3.00939	0.1044772	2.7910825	18	1	11 days	1.00		Williams	2000 FQ ₂
2000 FR ₂	14.2	0.15	20000317	18.67823	89.49857	355.93316	22.35150	0.2946000	2.4197931	15	1	13 days	0.51		Williams	2000 FR ₂
2000 FV ₂	14.9	0.15	20000317	85.85044	81.60057	33.55547	7.48349	0.0450609	2.7665098	25	1	12 days	0.97		Williams	2000 FV ₂
2000 FY ₂	16.5	0.15	20000317	308.77858	6.67986	233.60823	2.14907	0.1296283	2.3687466	38	1	28 days	0.60		Williams	2000 FY ₂
2000 FB ₃	16.0	0.15	20000317	317.44394	90.23569	135.49868	23.55963	0.0703885	1.9547320	21	1	25 days	0.61		Williams	2000 FB ₃
2000 FD ₃	16.1	0.15	20000317	11.18159	35.74777	126.26002	5.73021	0.1522655	2.5562358	33	1	27 days	0.44		Williams	2000 FD ₃

2000 FE ₃	16.1	0.15	20000317	5.72260	51.45125	117.00560	5.36936	0.1987375	2.6158297	36	1	29 days	0.56		Williams	2000 FE ₃
2000 FF ₃	14.3	0.15	20000317	286.21434	242.62768	25.73658	13.56502	0.1564558	2.7188212	22	1	27 days	0.65		Williams	2000 FF ₃
2000 FG ₃	16.1	0.15	20000317	277.77864	172.85093	104.99255	5.00531	0.1550591	2.1579125	25	1	22 days	0.53		Williams	2000 FG ₃
2000 FH ₃	14.7	0.15	20000317	324.02836	128.73628	92.89501	12.59208	0.1427264	2.6620037	27	1	24 days	0.35		Williams	2000 FH ₃
2000 FM ₃	15.5	0.15	20000317	291.26458	196.68884	74.57420	9.11854	0.2283681	2.2262536	29	1	34 days	0.56		Williams	2000 FM ₃
2000 FN ₃	15.1	0.15	20000317	347.74520	88.25837	107.99384	7.88613	0.2028500	2.7353219	20	1	27 days	0.48		Williams	2000 FN ₃
2000 FO ₃	14.6	0.15	20000317	250.81275	254.80150	62.36826	7.32896	0.3110456	2.1768161	56	1	41 days	0.31		Williams	2000 FO ₃
2000 FP ₃	15.7	0.15	20000317	6.42505	45.52782	126.64566	7.06810	0.0600356	2.3766846	32	1	27 days	0.65		Williams	2000 FP ₃
2000 FQ ₃	13.1	0.15	20000226	341.52126	54.91346	139.63402	14.50767	0.0588393	2.8457280	31	1	93 days	0.40	M-v 4	Williams	2000 FQ ₃
2000 FR ₃	13.1	0.15	20000317	257.75558	227.79764	71.44775	9.81548	0.1816314	2.5563000	22	1	27 days	0.40		Williams	2000 FR ₃
2000 FT ₃	14.5	0.15	20000317	10.49240	78.08703	83.89384	9.99660	0.1702897	3.0213590	16	1	24 days	0.43		Williams	2000 FT ₃
2000 FU ₃	14.7	0.15	20000317	37.46789	47.69951	78.08416	9.53873	0.1623584	2.4086318	25	1	30 days	0.45		Williams	2000 FU ₃
2000 FW ₃	11.4	0.15	20000317	113.38792	291.81655	115.10065	14.48141	0.1666745	3.0029327	37	1	39 days	0.61		Williams	2000 FW ₃
2000 FD ₄	16.7	0.15	20000317	90.62988	163.90092	234.34093	1.31022	0.2570071	2.7803998	9	1	5 days	0.39	E	Williams	2000 FD ₄
2000 FF ₄	15.7	0.15	20000317	213.98944	2.38408	337.71154	2.14851	0.0430420	3.1301937	13	1	10 days	0.65		Williams	2000 FF ₄
2000 FG ₄	16.6	0.15	20000317	307.06470	255.46520	358.64449	5.13888	0.1058903	3.0250755	9	1	5 days	0.32	E	Williams	2000 FG ₄
2000 FJ ₄	19.3	0.15	20000317	13.84054	318.04426	202.98754	4.36358	0.2898873	2.5840347	10	1	9 days	0.59		Williams	2000 FJ ₄
2000 FO ₄	17.2	0.15	20000317	358.71539	339.42027	212.50362	3.05233	0.0563506	2.7798234	10	1	10 days	0.24		Williams	2000 FO ₄
2000 FP ₄	17.0	0.15	20000317	56.57777	272.28265	213.45395	3.06640	0.0848933	2.8388067	10	1	9 days	0.43		Williams	2000 FP ₄
2000 FR ₄	16.3	0.15	20000317	164.07797	13.02804	13.75116	9.63130	0.0096851	3.0969319	20	1	15 days	0.40		Williams	2000 FR ₄
2000 FS ₄	16.0	0.15	20000317	214.49374	322.83743	17.68868	1.81315	0.0713139	2.6462764	30	1	15 days	0.48		Williams	2000 FS ₄
2000 FT ₄	16.4	0.15	20000317	199.79624	338.33753	19.28258	1.57715	0.2014842	2.4189120	20	1	15 days	0.47		Williams	2000 FT ₄
2000 FU ₄	18.0	0.15	20000317	189.42735	344.52865	18.83437	2.14563	0.1597382	2.1986684	15	1	15 days	0.32		Williams	2000 FU ₄
2000 FV ₄	14.9	0.15	20000317	120.25903	230.17296	192.64041	16.30134	0.0893287	2.9011463	32	1	14 days	0.48		Williams	2000 FV ₄
2000 FW ₄	17.3	0.15	20000317	284.90969	90.55278	188.81408	4.45281	0.1124037	3.1195993	12	1	16 days	0.20		Williams	2000 FW ₄
2000 FX ₄	15.1	0.15	20000317	272.49070	297.25305	15.00474	14.59366	0.3000453	2.8909198	26	1	14 days	0.58		Williams	2000 FX ₄
2000 FY ₄	17.8	0.15	20000317	57.54668	97.79744	18.34686	2.64344	0.1465565	2.3541708	16	1	15 days	0.57		Williams	2000 FY ₄
2000 FZ ₄	16.9	0.15	20000317	197.62175	312.66174	44.44165	0.91043	0.1118488	2.5227204	13	1	15 days	0.43		Williams	2000 FZ ₄
2000 FA ₅	16.1	0.15	20000317	29.89780	326.18878	191.10461	8.66565	0.0709639	3.1353063	21	1	16 days	0.44		Williams	2000 FA ₅
2000 FB ₅	17.8	0.15	20000317	269.73421	106.95102	188.52129	5.31908	0.1268614	2.5806252	15	1	16 days	0.41		Williams	2000 FB ₅
2000 FC ₅	16.1	0.15	20000317	130.58994	38.05825	18.71730	5.51132	0.0488127	2.7756284	21	1	15 days	0.52		Williams	2000 FC ₅
2000 FE ₅	13.4	0.15	20000406	23.43517	37.02612	135.50968	10.74600	0.1409348	2.6480492	30	1	15 days	0.56		Williams	2000 FE ₅
2000 FF ₅	13.3	0.15	20000406	81.21915	27.19562	79.18072	14.02908	0.1248231	2.4633207	17	1	15 days	0.45		Williams	2000 FF ₅
2000 FG ₅	12.5	0.15	20000317	70.68764	7.05222	117.33330	12.57389	0.0361492	2.7000601	26	1	34 days	0.99		Williams	2000 FG ₅
2000 FL ₅	16.8	0.15	20000317	101.57505	219.14513	182.75444	2.76453	0.1295906	2.6163674	9	1	8 days	0.20		Williams	2000 FL ₅
2000 FO ₅	15.7	0.15	20000317	38.53321	299.64869	209.88478	2.24426	0.0448646	2.8101635	24	1	13 days	0.48		Williams	2000 FO ₅
2000 FR ₅	15.6	0.15	20000317	174.46378	145.95917	231.77395	0.76550	0.1036702	2.9694635	21	1	13 days	0.46		Williams	2000 FR ₅
2000 FT ₅	16.6	0.15	20000317	48.84101	123.34012	12.46900	10.13722	0.0820929	2.9900453	11	1	11 days	0.30		Williams	2000 FT ₅
2000 FV ₅	15.1	0.15	20000317	99.14464	60.73937	13.07242	8.26532	0.1884121	2.7425735	28	1	13 days	0.47		Williams	2000 FV ₅
2000 FW ₅	16.7	0.15	20000317	3.17319	176.24967	13.19470	7.98731	0.0402018	2.9942067	11	1	11 days	0.53		Williams	2000 FW ₅
2000 FX ₅	16.7	0.15	20000317	34.44844	126.40721	12.72203	13.43552	0.2062454	2.5493044	28	1	28 days	0.42		Williams	2000 FX ₅
2000 FZ ₅	17.7	0.15	20000317	30.90874	137.16689	12.60551	2.39639	0.1431711	2.4578382	18	1	12 days	0.51		Williams	2000 FZ ₅
2000 FA ₆	16.3	0.15	20000317	195.45051	346.90586	14.94971	7.37431	0.1491401	2.4756517	10	1	11 days	0.34		Williams	2000 FA ₆
2000 FB ₆	15.5	0.15	20000317	1.26858	359.11929	192.51108	0.73502	0.0872886	3.0561272	26	1	19 days	0.50		Williams	2000 FB ₆
2000 FD ₆	16.0	0.15	20000317	313.32562	242.13192	16.44019	16.28278	0.1882032	3.1194206	14	1	12 days	0.31		Williams	2000 FD ₆
2000 FF ₆	17.4	0.15	20000317	338.40163	199.72709	19.02106	3.35227	0.1236525	2.3893562	14	1	12 days	0.54		Williams	2000 FF ₆
2000 FJ ₆	19.4	0.15	20000317	8.99601	158.47192	19.22913	4.41401	0.1481137	2.2388518	13	1	19 days	0.32		Williams	2000 FJ ₆
2000 FL ₆	15.8	0.15	20000317	328.79276	210.57072	18.93819	8.74521	0.0720925	2.7341164	47	1	14 days	0.46		Williams	2000 FL ₆
2000 FM ₆	16.3	0.15	20000317	23.06287	134.66734	36.17192	1.85101	0.0253778	3.0407466	13	1	19 days	0.35		Williams	2000 FM ₆
2000 FQ ₆	15.4	0.15	20000317	62.49948	114.86109	0.14791	4.36157	0.1344385	3.2595505	15	1	10 days	0.38		Williams	2000 FQ ₆
2000 FR ₆	17.5	0.15	20000317	309.95426	50.45704	199.61136	6.40700	0.1127915	2.3068152	20	1	10 days	0.45		Williams	2000 FR ₆
2000 FS ₆	16.8	0.15	20000317	302.57917	53.05619	203.91436	3.47595	0.0993729	2.2660999	36	1	12 days	0.53		Williams	2000 FS ₆
2000 FT ₆	16.4	0.15	20000317	39.47410	299.06989	202.62821	5.34620	0.1280623	3.2030262	11	1	9 days	0.27		Williams	2000 FT ₆

2000 FW ₆	18.3	0.15	20000317	292.66280	315.49161	297.79933	1.29223	0.2214658	2.3813687	9	1	4 days	0.23	E	Williams	2000 FW ₆
2000 FZ ₆	18.2	0.15	20000317	355.08528	351.12492	203.61448	4.48625	0.1151561	2.2970595	16	1	8 days	0.43		Williams	2000 FZ ₆
2000 FA ₇	19.6	0.15	20000317	354.76979	320.51827	231.03129	0.71194	0.2076907	2.1585248	10	1	7 days	0.62		Williams	2000 FA ₇
2000 FE ₇	17.9	0.15	20000317	206.39840	150.46268	192.68650	5.66835	0.0448163	2.2689352	10	1	7 days	0.45		Williams	2000 FE ₇
2000 FF ₇	18.0	0.15	20000317	89.03883	80.28032	10.27763	5.64378	0.0678148	2.2428754	9	1	7 days	0.14		Williams	2000 FF ₇
2000 FG ₇	17.0	0.15	20000317	284.38052	273.16171	9.41740	0.16363	0.1626285	2.5808670	11	1	7 days	0.33		Williams	2000 FG ₇
2000 FJ ₇	16.4	0.15	20000317	194.43240	287.98141	73.93173	0.43434	0.2587708	2.6748450	9	1	8 days	0.21		Williams	2000 FJ ₇
2000 FK ₇	16.0	0.15	20000317	215.34887	160.69568	187.57920	4.41242	0.2504864	2.5913207	9	1	8 days	0.13		Williams	2000 FK ₇
2000 FL ₇	15.6	0.15	20000317	273.12581	103.47070	190.70430	15.07015	0.1424834	3.1032299	21	1	12 days	0.57		Williams	2000 FL ₇
2000 FO ₇	17.2	0.15	20000317	113.58281	226.48117	187.33323	6.55587	0.2612431	2.5062508	9	1	8 days	0.19		Williams	2000 FO ₇
2000 FP ₇	14.1	0.15	20000406	316.10215	134.10657	116.96148	12.26107	0.1981246	3.0218504	25	1	16 days	0.54		Williams	2000 FP ₇
2000 FR ₇	14.7	0.15	20000406	85.76108	313.55329	149.60044	12.88067	0.1406007	2.4363932	31	1	15 days	0.65		Williams	2000 FR ₇
2000 FS ₇	16.0	0.15	20000317	234.17657	280.52017	32.21971	21.32766	0.0713366	1.9200128	16	1	24 days	0.72		Williams	2000 FS ₇
2000 FT ₇	16.3	0.15	20000317	53.69452	97.83975	19.27794	30.94010	0.1527058	2.1138447	45	1	12 days	0.45		Williams	2000 FT ₇
2000 FX ₇	13.8	0.15	20000317	271.16934	182.46946	123.52395	13.70714	0.2237710	2.4675128	19	1	10 days	0.45		Williams	2000 FX ₇
2000 FY ₇	15.3	0.15	20000317	59.27198	105.25285	11.42959	14.32118	0.1005708	3.1800799	10	1	6 days	0.58	E	Williams	2000 FY ₇
2000 FZ ₇	17.5	0.15	20000317	42.59635	313.56511	178.70527	1.90152	0.1640532	2.4017800	30	1	15 days	0.77		Williams	2000 FZ ₇
2000 FA ₈	7.4	0.15	20000317	0.00000	339.76923	204.83215	1.03197	0.0000000	42.8785300	7	1	3 days	0.23	E	Marsden	2000 FA ₈
2000 FB ₈	8.3	0.15	20000317	359.96690	184.38237	0.51430	3.31050	0.1042400	44.8599037	8	1	3 days	0.18	E	Marsden	2000 FB ₈
2000 FC ₈	8.0	0.15	20000317	0.00000	347.43558	197.84219	1.77953	0.0000000	46.1688974	5	1	2 days	0.15	E	Marsden	2000 FC ₈
2000 FD ₈	6.8	0.15	20000317	359.96537	359.99241	184.82628	17.64667	0.0815157	43.5474512	8	1	3 days	0.19	E	Marsden	2000 FD ₈
2000 FE ₈	6.6	0.15	20000317	359.95940	181.71441	4.07586	6.43434	0.0789431	39.2433683	7	1	3 days	0.17	E	Marsden	2000 FE ₈
2000 FF ₈	7.7	0.15	20000317	0.00000	7.55254	177.81964	4.15889	0.0000000	45.8763662	5	1	1 days	0.09	E	Marsden	2000 FF ₈
2000 FG ₈	7.7	0.15	20000317	0.00000	71.00028	114.68821	0.52875	0.0000000	44.1378016	6	1	1 days	0.09	E	Marsden	2000 FG ₈
2000 FH ₈	6.7	0.15	20000317	0.00000	178.83828	7.21986	5.02987	0.0000000	44.5721413	5	1	1 days	0.12	E	Marsden	2000 FH ₈
2000 FK ₈	16.4	0.15	20000317	348.32979	80.24579	115.53781	3.71459	0.0625498	2.2552119	16	1	9 days	0.45		Williams	2000 FK ₈
2000 FM ₈	19.6	0.15	20000317	0.82697	147.09573	29.79316	5.50648	0.3997304	2.3653527	15	1	12 days	0.54		Williams	2000 FM ₈
2000 FN ₈	13.4	0.15	20000317	223.39209	165.07269	178.43917	7.05195	0.1180220	3.1004802	39	1	20 days	0.48		Marsden	2000 FN ₈
2000 FP ₈	17.4	0.15	20000317	350.68369	327.36763	233.55599	1.61891	0.1606708	2.3963082	18	1	10 days	0.37		Williams	2000 FP ₈
2000 FQ ₈	15.3	0.15	20000317	284.93789	245.01097	23.40034	2.37330	0.0287091	2.8989953	42	1	16 days	0.58		Williams	2000 FQ ₈
2000 FR ₈	16.5	0.15	20000317	290.30258	97.82517	190.42804	8.56028	0.2487486	2.7275935	22	1	8 days	0.37		Williams	2000 FR ₈
2000 FS ₈	16.0	0.15	20000317	137.25390	210.92402	190.83223	12.40477	0.1939204	3.0584091	12	1	8 days	0.29		Williams	2000 FS ₈
2000 FV ₈	16.0	0.15	20000317	274.64782	159.65482	125.53199	0.40241	0.0854152	2.6414740	34	1	14 days	0.40		Williams	2000 FV ₈
2000 FW ₈	16.4	0.15	20000317	278.37977	136.91099	156.92336	0.87610	0.1851156	3.0519881	16	1	14 days	0.33		Williams	2000 FW ₈
2000 FX ₈	15.9	0.15	20000317	293.96488	59.16931	220.42019	2.81860	0.1127873	3.2337277	11	1	8 days	0.45		Williams	2000 FX ₈
2000 FY ₈	15.7	0.15	20000317	33.97384	164.00715	357.94266	1.86612	0.0638598	2.9882629	16	1	8 days	0.37		Williams	2000 FY ₈
2000 FZ ₈	17.5	0.15	20000317	353.71791	357.79214	206.15192	5.41456	0.1499337	2.3608992	16	1	8 days	0.35		Williams	2000 FZ ₈
2000 FA ₉	15.7	0.15	20000317	209.42762	144.50363	211.48931	5.23624	0.0683612	3.0165042	14	1	8 days	0.53		Williams	2000 FA ₉
2000 FC ₉	15.3	0.15	20000317	252.40916	324.94985	349.42284	1.04434	0.0508129	2.9458344	19	1	9 days	0.44		Williams	2000 FC ₉
2000 FD ₉	16.9	0.15	20000317	324.97852	27.16366	215.44341	2.25993	0.1365815	2.4716070	16	1	8 days	0.63		Williams	2000 FD ₉
2000 FH ₉	20.3	0.15	20000317	344.84378	4.11034	203.38948	0.42182	0.2073509	2.1897457	10	1	6 days	0.68	E	Williams	2000 FH ₉
2000 FK ₉	17.7	0.15	20000317	43.62369	304.35667	190.83254	16.72850	0.0969324	2.5874802	15	1	7 days	0.63		Williams	2000 FK ₉
2000 FN ₉	18.7	0.15	20000317	348.26419	189.11405	12.86900	2.99313	0.1588489	2.3043512	18	1	7 days	1.02		Williams	2000 FN ₉
2000 FO ₉	19.2	0.15	20000317	350.12435	29.45898	172.45019	0.47921	0.2266578	2.5418894	9	1	7 days	0.39		Williams	2000 FO ₉
2000 FP ₉	17.8	0.15	20000317	293.68316	265.93609	15.42062	4.04957	0.2401968	2.3813896	11	1	6 days	0.33	E	Williams	2000 FP ₉
2000 FQ ₉	14.7	0.15	20000317	200.16379	220.62015	124.14413	3.58210	0.2046379	2.1366061	34	1	15 days	0.73		Williams	2000 FQ ₉
2000 FR ₉	17.0	0.15	20000317	262.19415	106.37190	190.36696	10.01786	0.0913644	2.6572192	12	1	7 days	0.31		Williams	2000 FR ₉
2000 FT ₉	17.1	0.15	20000317	90.14356	254.13003	181.47492	2.20235	0.2059407	2.3888628	12	1	8 days	0.56		Williams	2000 FT ₉
2000 FV ₉	17.0	0.15	20000317	280.21766	262.40347	16.60937	5.32848	0.0965177	2.3800501	23	1	7 days	0.54		Williams	2000 FV ₉
2000 FW ₉	18.4	0.15	20000317	345.88551	56.42193	150.08525	0.84227	0.1404034	2.4568807	29	1	7 days	0.43		Williams	2000 FW ₉
2000 FX ₉	17.5	0.15	20000317	278.61279	252.61862	22.07701	4.47624	0.0334570	2.6534915	17	1	7 days	0.48		Williams	2000 FX ₉
2000 FY ₉	17.0	0.15	20000406	246.90190	303.92270	16.89046	8.15820	0.1360902	2.4484583	31	1	13 days	0.46		Williams	2000 FY ₉
2000 FB ₁₀	18.4	0.15	20000406	27.56948	134.74015	21.11588	4.56338	0.1750219	2.4086120	30	1	13 days	0.46		Williams	2000 FB ₁₀

2000 FC ₁₀	17.2	0.15	20000317	16.53501	340.45194	186.85709	8.12798	0.1328060	2.6418222	26	1	10 days	0.62	Williams	2000 FC ₁₀
2000 FD ₁₀	16.7	0.15	20000317	300.10385	236.68138	23.80068	4.48175	0.1168302	2.2495042	52	1	11 days	0.43	Williams	2000 FD ₁₀
2000 FE ₁₀	19.2	0.15	20000317	349.90721	173.10950	28.16992	3.04829	0.1449245	2.3619241	12	1	4 days	0.48	E Williams	2000 FE ₁₀
2000 FF ₁₀	15.0	0.15	20000317	226.38369	173.79746	167.45197	2.83239	0.2332854	2.8653223	11	1	6 days	0.14	E Williams	2000 FF ₁₀
2000 FH ₁₀	18.7	0.15	20000317	189.42965	352.92062	7.31914	9.99109	0.1186222	1.6570920	19	1	7 days	0.65	Williams	2000 FH ₁₀
2000 FJ ₁₀	21.6	0.15	20000317	97.95967	231.97312	190.11351	5.23234	0.2323037	1.3178929	28	1	14 days	0.72	Williams	2000 FJ ₁₀
2000 FK ₁₀	19.0	0.15	20000317	300.02383	246.76053	41.86118	13.95282	0.4812778	1.3586154	31	1	15 days	0.79	Williams	2000 FK ₁₀
2000 FL ₁₀	16.8	0.15	20000406	50.73510	258.70287	187.07987	29.00713	0.4265193	1.4622652	134	1	19 days	0.64	Marsden	2000 FL ₁₀
2000 FM ₁₀	18.2	0.15	20000406	223.03285	343.78261	18.67880	8.77000	0.6820741	1.4816206	24	1	13 days	0.45	Williams	2000 FM ₁₀
2000 FN ₁₀	17.2	0.15	20000406	344.40159	235.10968	8.45224	27.09361	0.4549027	1.9328409	73	1	17 days	0.67	Williams	2000 FN ₁₀
2000 FP ₁₀	21.9	0.15	20000317	0.97165	165.22736	5.20031	23.45456	0.2348343	1.4343554	29	1	8 days	0.86	Williams	2000 FP ₁₀
2000 FQ ₁₀	14.4	0.15	20000226	343.44081	56.82027	138.54024	15.80079	0.1871518	2.6198820	53	1	94 days	0.59	M-v 4 Williams	2000 FQ ₁₀
2000 FR ₁₀	14.2	0.15	20000317	260.78275	102.04878	227.70764	10.20157	0.2267727	3.0142999	15	1	8 days	0.61	Williams	2000 FR ₁₀
2000 FU ₁₀	16.6	0.15	20000317	323.16060	52.07954	191.09851	29.46592	0.2044219	3.2949252	18	1	7 days	0.54	Williams	2000 FU ₁₀
2000 FV ₁₀	16.2	0.15	20000317	216.07317	166.19615	181.92466	3.66246	0.2495062	2.6025474	16	1	7 days	0.46	Williams	2000 FV ₁₀
2000 FW ₁₀	15.3	0.15	20000317	222.83628	157.56336	176.77723	2.27062	0.0926085	2.8599517	28	1	10 days	0.43	Williams	2000 FW ₁₀
2000 FX ₁₀	17.7	0.15	20000317	204.10572	322.47662	28.19955	3.16889	0.1318851	2.1811790	9	1	4 days	0.17	E Williams	2000 FX ₁₀
2000 FZ ₁₀	14.3	0.15	20000317	311.11369	253.59108	12.11794	16.98274	0.2227591	2.6191700	44	1	35 days	0.47	Williams	2000 FZ ₁₀
2000 FB ₁₁	15.3	0.15	20000317	16.29935	335.88153	194.96327	11.60139	0.1158809	2.6169535	43	1	10 days	0.65	Williams	2000 FB ₁₁
2000 FE ₁₁	13.1	0.15	20000317	64.51076	0.43534	85.89049	12.69072	0.0872699	3.0675564	16	1	29 days	0.39	Williams	2000 FE ₁₁
2000 FJ ₁₁	14.2	0.15	20000226	349.25907	131.07641	40.43780	11.06865	0.1492169	2.7721997	20	1	62 days	0.38	M-v 4 Williams	2000 FJ ₁₁
2000 FK ₁₁	14.1	0.15	20000317	333.59407	112.33294	87.52546	11.11456	0.1833651	3.1439299	16	1	29 days	0.34	Williams	2000 FK ₁₁
2000 FW ₁₁	14.1	0.15	20000317	1.42404	154.33126	4.79994	27.84048	0.1412948	2.9350302	22	1	29 days	0.29	Williams	2000 FW ₁₁
2000 FX ₁₁	14.4	0.15	20000317	269.40198	142.10413	140.33895	24.02576	0.2451721	3.1209461	21	1	31 days	0.78	Williams	2000 FX ₁₁
2000 FB ₁₂	13.8	0.15	20000226	297.47715	159.93261	65.57619	11.76938	0.0427622	2.9615988	21	1	59 days	0.81	Williams	2000 FB ₁₂
2000 FH ₁₂	13.6	0.15	20000317	318.14938	180.41985	29.33645	15.67511	0.0596197	3.1016310	20	1	29 days	0.47	Williams	2000 FH ₁₂
2000 FJ ₁₂	13.0	0.15	20000226	34.11128	86.94956	25.18016	18.12677	0.1842062	3.1486554	24	1	72 days	0.29	M-v 4 Williams	2000 FJ ₁₂
2000 FO ₁₂	13.8	0.15	20000317	190.83896	266.15381	72.54298	13.88224	0.0423529	2.6499149	12	1	11 days	0.38	Williams	2000 FO ₁₂
2000 FQ ₁₂	13.7	0.15	20000317	333.91044	104.20483	94.10375	11.24006	0.0471829	3.0587912	17	1	13 days	0.69	Williams	2000 FQ ₁₂
2000 FT ₁₂	14.2	0.15	20000226	319.55445	177.91857	39.28883	15.17008	0.1305369	2.6137777	25	1	65 days	0.42	M-v 4 Williams	2000 FT ₁₂
2000 FU ₁₂	15.1	0.15	20000317	42.58766	1.70112	112.36609	12.95226	0.1807441	2.5719690	21	1	27 days	0.53	Williams	2000 FU ₁₂
2000 FV ₁₂	13.6	0.15	20000226	329.73176	155.35864	51.05612	14.21083	0.1208119	2.6866169	33	1	70 days	0.39	M-v 4 Williams	2000 FV ₁₂
2000 FW ₁₂	15.7	0.15	20000317	271.67470	134.66858	152.07914	3.78676	0.2066653	2.2708300	44	1	43 days	0.47	Williams	2000 FW ₁₂
2000 FX ₁₂	15.0	0.15	20000317	354.67584	117.71992	63.30422	14.61524	0.1212210	2.5579816	16	1	35 days	0.50	Williams	2000 FX ₁₂
2000 FY ₁₂	14.2	0.15	20000317	46.77761	19.72103	102.30535	13.87172	0.0671120	2.5887187	13	1	10 days	0.50	Williams	2000 FY ₁₂
2000 FB ₁₃	13.3	0.15	20000317	123.36019	298.75195	113.58112	16.07005	0.0335901	3.2261537	23	1	25 days	0.65	Williams	2000 FB ₁₃
2000 FG ₁₃	14.1	0.15	20000317	351.07073	53.90219	140.21997	18.06205	0.1380605	2.6216631	21	1	24 days	0.57	Williams	2000 FG ₁₃
2000 FH ₁₃	12.9	0.15	20000317	265.41899	258.43950	17.69141	13.86165	0.0812134	3.3208774	17	1	10 days	0.61	Williams	2000 FH ₁₃
2000 FM ₁₃	14.6	0.15	20000317	26.51829	32.37609	111.23799	14.24320	0.1010819	2.4848238	21	1	35 days	0.55	Williams	2000 FM ₁₃
2000 FO ₁₃	13.6	0.15	20000317	354.44883	66.61410	117.15353	15.29423	0.0451315	2.6372692	21	1	24 days	0.48	Williams	2000 FO ₁₃
2000 FP ₁₃	14.1	0.15	20000317	71.23399	339.97057	119.10780	15.33588	0.0712306	2.6205738	18	1	24 days	0.55	Williams	2000 FP ₁₃
2000 FU ₁₃	13.9	0.15	20000317	108.63493	289.62281	140.83444	15.63810	0.1372402	2.6419624	20	1	10 days	0.38	Williams	2000 FU ₁₃
2000 FX ₁₃	19.2	0.15	20000317	21.07544	97.95782	40.51058	11.73273	0.3411839	1.8431081	20	1	7 days	0.36	Williams	2000 FX ₁₃
2000 FY ₁₃	16.2	0.15	20000317	55.04523	300.69923	191.35490	16.57916	0.0336741	3.1749903	17	1	8 days	0.60	Williams	2000 FY ₁₃
2000 FZ ₁₃	17.7	0.15	20000317	186.34781	177.29099	187.74810	5.83467	0.1362476	2.3006827	12	1	8 days	0.40	Williams	2000 FZ ₁₃
2000 FA ₁₄	18.2	0.15	20000317	295.04171	97.86259	182.81872	3.06090	0.2361711	2.4330421	13	1	8 days	0.46	Williams	2000 FA ₁₄
2000 FH ₁₄	20.1	0.15	20000317	0.77183	355.79555	188.91054	6.90639	0.1666816	2.2638099	9	1	7 days	0.26	Williams	2000 FH ₁₄
2000 FJ ₁₄	15.7	0.15	20000317	87.51391	51.10024	29.96712	2.22093	0.1919768	3.0843412	14	1	7 days	0.50	Williams	2000 FJ ₁₄
2000 FK ₁₄	17.5	0.15	20000317	14.26661	16.11089	152.76153	0.81456	0.1707126	3.1637885	14	1	7 days	0.36	Williams	2000 FK ₁₄
2000 FL ₁₄	18.6	0.15	20000317	359.42921	157.85114	30.52989	1.63331	0.1836336	2.6081791	14	1	7 days	0.72	Williams	2000 FL ₁₄
2000 FN ₁₄	18.6	0.15	20000317	354.38648	19.65381	175.62229	1.63113	0.1743521	2.4295285	14	1	7 days	0.89	Williams	2000 FN ₁₄
2000 FO ₁₄	18.6	0.15	20000317	135.79436	331.87354	77.49672	0.72838	0.0528860	2.2630029	12	1	7 days	1.16	Williams	2000 FO ₁₄
2000 FT ₁₄	16.2	0.15	20000317	42.67279	322.49944	175.18848	22.35664	0.0676815	1.9741712	15	1	10 days	0.46	Williams	2000 FT ₁₄

2000 APR. 18

M.P.C. 40499

2000 FU ₁₄	16.3	0.15	20000317	19.75552	136.11916	19.35249	14.35198	0.2143199	2.6643514	39	1	35 days	0.67	Williams	2000 FU ₁₄
2000 FV ₁₄	15.3	0.15	20000317	26.67292	133.43339	19.40223	16.57182	0.1241272	2.5225253	55	1	37 days	0.47	Williams	2000 FV ₁₄
2000 FX ₁₄	15.6	0.15	20000317	33.15608	94.87598	33.79192	23.40185	0.2511528	2.2619390	22	1	29 days	0.42	Williams	2000 FX ₁₄
2000 FY ₁₄	16.1	0.15	20000317	256.93710	126.18130	176.55093	25.11914	0.0824711	1.9564125	13	1	10 days	0.44	Williams	2000 FY ₁₄
2000 FC ₁₅	14.8	0.15	20000317	270.73628	138.79643	125.96318	5.65098	0.0393036	2.5348306	22	1	9 days	0.43	Williams	2000 FC ₁₅
2000 FE ₁₅	17.0	0.15	20000317	15.55178	139.17327	15.77565	24.81985	0.2869048	2.7258737	15	1	10 days	0.72	Williams	2000 FE ₁₅
2000 FF ₁₅	14.9	0.15	20000317	9.30232	131.08123	28.46147	28.52388	0.3360925	3.1392665	18	1	24 days	0.51	Williams	2000 FF ₁₅
2000 FH ₁₅	15.2	0.15	20000317	334.36471	203.79198	23.13408	27.04212	0.2057587	2.5570831	42	1	12 days	0.58	Williams	2000 FH ₁₅
2000 FJ ₁₅	14.4	0.15	20000317	233.84554	144.83277	190.35392	23.56664	0.1874322	2.4068886	37	1	37 days	0.48	Williams	2000 FJ ₁₅
2000 FK ₁₅	15.7	0.15	20000317	75.81926	78.91989	30.80358	21.26064	0.0418577	2.3890593	18	1	10 days	0.48	Williams	2000 FK ₁₅
2000 FQ ₁₅	14.8	0.15	20000317	78.17999	10.73280	62.27114	4.19353	0.1669212	2.3724535	24	1	27 days	0.49	Williams	2000 FQ ₁₅
2000 FT ₁₅	14.1	0.15	20000317	241.84183	276.42783	28.81993	7.34103	0.1353700	2.3379280	19	1	13 days	0.69	Williams	2000 FT ₁₅
2000 FY ₁₅	13.3	0.15	20000317	9.26073	82.64542	80.32944	6.54075	0.1091783	3.1846363	36	1	27 days	0.53	Williams	2000 FY ₁₅
2000 FD ₁₆	13.3	0.15	20000317	328.45635	72.58945	153.38644	16.20104	0.2365871	3.1445018	37	1	11 days	0.40	Williams	2000 FD ₁₆
2000 FE ₁₆	13.9	0.15	20000226	189.73409	206.41276	135.65472	10.31644	0.0097845	2.9641444	43	1	57 days	0.44	Williams	2000 FE ₁₆
2000 FJ ₁₆	16.6	0.15	20000317	295.89590	129.60369	125.09686	5.07116	0.1228285	2.2173460	25	1	27 days	0.47	Williams	2000 FJ ₁₆
2000 FK ₁₆	15.6	0.15	20000317	29.86099	53.22042	82.57925	4.20665	0.1667446	2.5676640	32	1	29 days	0.66	Williams	2000 FK ₁₆
2000 FM ₁₆	14.2	0.15	20000317	267.77316	274.33327	18.84597	15.60165	0.2213854	2.6733655	31	1	27 days	0.49	Williams	2000 FM ₁₆
2000 FP ₁₆	14.9	0.15	20000317	23.92389	60.14897	89.56884	7.40087	0.0693292	2.4424625	18	1	27 days	0.60	Williams	2000 FP ₁₆
2000 FQ ₁₆	14.1	0.15	20000317	309.67047	119.62221	131.00349	10.57215	0.2287880	2.7507695	24	1	34 days	0.29	Williams	2000 FQ ₁₆
2000 FS ₁₆	15.0	0.15	20000317	305.80812	146.05312	91.64220	7.68134	0.0634628	2.2915467	16	1	27 days	0.44	Williams	2000 FS ₁₆
2000 FY ₁₆	13.9	0.15	20000317	309.50277	225.10802	16.62688	27.56059	0.1477214	3.1107456	27	1	34 days	0.40	Williams	2000 FY ₁₆
2000 FZ ₁₆	15.8	0.15	20000317	1.10520	104.54269	72.16541	4.79640	0.1279510	2.2893028	29	1	27 days	0.42	Williams	2000 FZ ₁₆
2000 FA ₁₇	13.2	0.15	20000317	252.89838	153.95712	150.61145	11.94567	0.1817975	2.7791079	18	1	13 days	0.32	Williams	2000 FA ₁₇
2000 FC ₁₇	16.1	0.15	20000317	316.01344	148.39858	85.97002	4.01485	0.1333729	2.2882681	13	1	10 days	0.62	Williams	2000 FC ₁₇
2000 FE ₁₇	14.2	0.15	20000317	303.72797	93.91803	144.32417	12.28198	0.0355846	3.1370910	26	1	27 days	0.42	Williams	2000 FE ₁₇
2000 FG ₁₇	15.7	0.15	20000317	67.41316	19.76424	66.99244	5.50586	0.2219135	2.3734077	27	1	39 days	0.44	Williams	2000 FG ₁₇
2000 FH ₁₇	16.0	0.15	20000317	70.04910	32.75604	66.37380	5.58303	0.0950952	2.2111149	10	1	10 days	0.38	Williams	2000 FH ₁₇
2000 FJ ₁₇	14.8	0.15	20000317	308.31461	138.63951	108.65539	5.72678	0.1538699	2.5865471	16	1	11 days	0.49	Williams	2000 FJ ₁₇
2000 FM ₁₇	15.7	0.15	20000317	129.69961	299.77355	96.66898	7.01720	0.1688481	2.2087652	15	1	13 days	0.67	Williams	2000 FM ₁₇
2000 FN ₁₇	15.2	0.15	20000317	314.26811	106.40793	127.55131	7.36952	0.0972115	2.3128807	19	1	13 days	0.49	Williams	2000 FN ₁₇
2000 FQ ₁₇	15.2	0.15	20000317	210.40532	273.59582	66.76487	7.78561	0.1471274	2.2778860	19	1	10 days	0.41	Williams	2000 FQ ₁₇
2000 FR ₁₇	13.3	0.15	20000317	275.90772	149.39599	125.19236	10.31500	0.0611203	3.1607300	17	1	27 days	0.45	Williams	2000 FR ₁₇
2000 FS ₁₇	15.1	0.15	20000317	324.25991	89.34354	151.33664	11.91698	0.2521488	2.6739224	15	1	10 days	0.31	Williams	2000 FS ₁₇
2000 FT ₁₇	11.7	0.15	20000317	197.31101	215.41619	135.18530	11.34971	0.1159328	2.9896524	22	1	30 days	0.35	Williams	2000 FT ₁₇
2000 FV ₁₇	12.9	0.15	20000317	253.33559	225.38728	69.39019	10.96839	0.0549938	2.9833976	15	1	10 days	0.34	Williams	2000 FV ₁₇
2000 FZ ₁₇	13.9	0.15	20000317	349.82096	133.99830	60.07090	12.30733	0.1392613	3.1507785	17	1	27 days	0.58	Williams	2000 FZ ₁₇
2000 FB ₁₈	14.1	0.15	20000317	41.36686	86.73006	44.28722	15.33526	0.1020938	2.8635705	12	1	14 days	0.61	Williams	2000 FB ₁₈
2000 FE ₁₈	14.4	0.15	20000317	338.29351	75.21463	138.15044	13.86840	0.1687027	3.0755803	11	1	10 days	0.44	Williams	2000 FE ₁₈
2000 FF ₁₈	14.3	0.15	20000317	83.97054	319.63040	137.04527	14.06089	0.0204742	2.6440932	18	1	27 days	0.49	Williams	2000 FF ₁₈
2000 FJ ₁₈	14.5	0.15	20000317	244.38367	205.17438	105.23017	8.09382	0.1120939	2.7377124	19	1	30 days	0.41	Williams	2000 FJ ₁₈
2000 FL ₁₈	14.7	0.15	20000317	81.67257	301.46768	154.60992	14.87359	0.0598893	2.7310959	21	1	27 days	0.52	Williams	2000 FL ₁₈
2000 FM ₁₈	14.4	0.15	20000317	307.43846	93.35588	154.90029	14.71161	0.1181277	2.5955527	22	1	32 days	0.54	Williams	2000 FM ₁₈
2000 FP ₁₈	14.4	0.15	20000317	290.88184	149.30579	125.40830	10.01195	0.1876296	2.7435735	15	1	10 days	0.53	Williams	2000 FP ₁₈
2000 FS ₁₈	13.8	0.15	20000317	111.26115	276.71450	139.87708	11.82607	0.1841450	2.6514090	14	1	10 days	0.71	Williams	2000 FS ₁₈
2000 FT ₁₈	16.9	0.15	20000317	354.22208	81.23803	109.85356	6.82493	0.0713993	2.3135432	16	1	27 days	0.52	Williams	2000 FT ₁₈
2000 FU ₁₈	13.7	0.15	20000317	203.58460	266.49487	75.62176	10.68149	0.0239381	3.0345693	12	1	12 days	0.41	Williams	2000 FU ₁₈
2000 FV ₁₈	14.7	0.15	20000317	73.82242	328.19244	119.97004	10.71153	0.1895893	2.4685632	14	1	10 days	0.37	Williams	2000 FV ₁₈
2000 FW ₁₈	14.2	0.15	20000317	314.79100	122.12222	111.11719	10.43931	0.0447884	2.7596721	14	1	10 days	0.46	Williams	2000 FW ₁₈
2000 FZ ₁₈	14.8	0.15	20000317	2.99166	54.95562	125.87050	10.91121	0.0994007	2.6632848	18	1	12 days	0.61	Williams	2000 FZ ₁₈
2000 FB ₁₉	15.3	0.15	20000317	251.76228	163.78707	131.68477	12.84547	0.0373693	2.4049120	25	1	32 days	0.53	Williams	2000 FB ₁₉
2000 FE ₁₉	14.4	0.15	20000317	230.56049	266.57331	51.35029	14.14949	0.0532668	2.6567015	12	1	12 days	0.42	Williams	2000 FE ₁₉
2000 FF ₁₉	13.4	0.15	20000406	113.69477	351.71503	80.88215	10.86882	0.0224389	3.1058055	18	1	15 days	0.43	Williams	2000 FF ₁₉

2000 FJ ₁₉	14.1	0.15	20000317	208.38537	261.54547	78.62447	10.09870	0.0581213	2.7361167	13	1	10 days	0.34	Williams	2000 FJ ₁₉
2000 FM ₁₉	15.4	0.15	20000317	329.76012	77.05451	148.52490	8.10893	0.2611728	2.7700400	17	1	10 days	1.00	Williams	2000 FM ₁₉
2000 FQ ₁₉	15.5	0.15	20000317	63.55178	312.06983	151.89059	13.37310	0.1235507	2.6529423	24	1	27 days	0.67	Williams	2000 FQ ₁₉
2000 FU ₁₉	12.4	0.15	20000317	149.04802	245.45264	140.03629	13.41332	0.1275426	3.1455044	14	1	10 days	0.38	Williams	2000 FU ₁₉
2000 FV ₁₉	15.5	0.15	20000317	87.37082	354.72693	88.97239	7.30243	0.0817411	2.3670066	20	1	27 days	0.56	Williams	2000 FV ₁₉
2000 FX ₁₉	13.6	0.15	20000317	323.72986	154.23313	68.08154	10.70664	0.0912533	2.9778674	18	1	27 days	0.47	Williams	2000 FX ₁₉
2000 FY ₁₉	12.0	0.15	20000317	264.75736	223.66903	61.47603	11.84839	0.0914950	3.0520870	14	1	10 days	0.22	Williams	2000 FY ₁₉
2000 FZ ₁₉	13.1	0.15	20000317	109.77263	280.19165	133.59775	13.41287	0.1771393	2.7382544	13	1	10 days	0.37	Williams	2000 FZ ₁₉
2000 FA ₂₀	13.7	0.15	20000317	296.66641	142.68252	103.58559	10.47018	0.0383178	3.0315615	16	1	11 days	0.42	Williams	2000 FA ₂₀
2000 FE ₂₀	15.1	0.15	20000317	7.02578	28.15437	144.40131	11.86490	0.1034176	2.9831902	24	1	27 days	0.41	Williams	2000 FE ₂₀
2000 FJ ₂₀	14.7	0.15	20000317	287.64517	154.67475	109.24274	7.08181	0.0925066	2.3542056	24	1	32 days	0.50	Williams	2000 FJ ₂₀
2000 FK ₂₀	15.6	0.15	20000317	18.00349	1.07645	156.02786	14.25204	0.1547878	2.7463125	26	1	27 days	0.45	Williams	2000 FK ₂₀
2000 FL ₂₀	14.3	0.15	20000317	21.95696	123.96666	25.09400	16.06640	0.1654196	3.1886792	26	1	13 days	0.55	Williams	2000 FL ₂₀
2000 FO ₂₀	14.2	0.15	20000226	298.60413	101.71179	155.83449	13.50227	0.1753832	2.7996751	33	1	62 days	0.50	Williams	2000 FO ₂₀
2000 FP ₂₀	15.4	0.15	20000317	33.54824	55.73828	81.27159	5.67658	0.1349355	2.3920049	26	1	27 days	0.40	Williams	2000 FP ₂₀
2000 FS ₂₀	15.4	0.15	20000317	282.55259	132.61612	139.55511	7.07944	0.1204450	2.2884062	22	1	13 days	0.44	Williams	2000 FS ₂₀
2000 FU ₂₀	15.0	0.15	20000317	90.17056	8.36295	66.26478	7.60146	0.1453409	2.4104930	17	1	13 days	0.50	Williams	2000 FU ₂₀
2000 FV ₂₀	14.8	0.15	20000317	325.26945	81.85582	142.34451	9.59454	0.1043368	2.7710385	29	1	31 days	0.91	Williams	2000 FV ₂₀
2000 FZ ₂₀	14.3	0.15	20000317	224.78808	290.15995	37.90907	14.29655	0.1783069	2.3562979	16	1	27 days	0.49	Williams	2000 FZ ₂₀
2000 FA ₂₁	16.6	0.15	20000317	335.34797	119.15736	94.08660	7.01699	0.1391207	2.3233724	25	1	32 days	0.35	Williams	2000 FA ₂₁
2000 FC ₂₁	15.1	0.15	20000317	346.37280	141.38241	55.21248	11.36600	0.1137024	2.5620449	13	1	10 days	0.55	Williams	2000 FC ₂₁
2000 FE ₂₁	12.8	0.15	20000317	215.72424	257.27902	71.03561	11.23468	0.0582627	3.0398060	14	1	10 days	0.53	Williams	2000 FE ₂₁
2000 FH ₂₁	14.7	0.15	20000317	333.24664	118.95439	98.59012	8.25227	0.1605693	2.7295358	25	1	32 days	0.40	Williams	2000 FH ₂₁
2000 FR ₂₁	14.6	0.15	20000317	304.98682	144.39552	107.49111	9.36533	0.1384314	2.7105586	18	1	27 days	0.65	Williams	2000 FR ₂₁
2000 FT ₂₁	14.3	0.15	20000317	293.86785	181.79046	87.47280	8.76464	0.1763924	2.6015905	14	1	10 days	0.43	Williams	2000 FT ₂₁
2000 FU ₂₁	14.8	0.15	20000317	217.23917	232.42684	107.08784	7.54732	0.2299775	2.2693551	18	1	27 days	0.52	Williams	2000 FU ₂₁
2000 FY ₂₁	14.3	0.15	20000317	269.78782	163.83744	119.24826	12.40259	0.0561160	3.0347126	20	1	33 days	0.60	Williams	2000 FY ₂₁
2000 FZ ₂₁	13.4	0.15	20000317	228.75437	253.49770	63.32072	10.02554	0.0821249	3.1040832	17	1	13 days	0.46	Williams	2000 FZ ₂₁
2000 FA ₂₂	15.9	0.15	20000317	291.34089	204.97210	56.70736	7.97949	0.1105050	2.2102514	17	1	13 days	0.55	Williams	2000 FA ₂₂
2000 FB ₂₂	15.5	0.15	20000317	314.91385	172.01362	73.11349	6.33541	0.1963057	2.3900177	34	1	38 days	0.53	Williams	2000 FB ₂₂
2000 FC ₂₂	14.0	0.15	20000317	44.71877	355.10027	138.08634	11.10360	0.0592636	2.9635041	10	1	10 days	0.53	Williams	2000 FC ₂₂
2000 FD ₂₂	14.6	0.15	20000317	249.68509	218.71832	84.46909	7.06059	0.1010717	2.4278167	15	1	10 days	0.63	Williams	2000 FD ₂₂
2000 FL ₂₂	13.7	0.15	20000317	248.04880	202.68935	104.71820	12.53011	0.0913439	3.0069478	14	1	10 days	0.46	Williams	2000 FL ₂₂
2000 FP ₂₂	15.3	0.15	20000317	30.25975	36.64669	101.87992	9.87639	0.2356401	2.9269488	12	1	10 days	0.51	Williams	2000 FP ₂₂
2000 FQ ₂₂	15.8	0.15	20000317	327.02020	196.96786	36.01812	18.01669	0.1918398	2.7821053	27	1	28 days	0.56	Williams	2000 FQ ₂₂
2000 FS ₂₂	16.8	0.15	20000317	56.56297	58.52117	56.01147	2.63071	0.1509927	2.3119204	17	1	9 days	0.67	Williams	2000 FS ₂₂
2000 FT ₂₂	15.8	0.15	20000317	33.56446	121.41311	26.93388	6.67776	0.0713851	2.2667051	42	1	14 days	0.44	Williams	2000 FT ₂₂
2000 FU ₂₂	16.3	0.15	20000317	64.35871	44.30208	58.77958	2.90429	0.1793403	2.4333446	15	1	12 days	0.45	Williams	2000 FU ₂₂
2000 FV ₂₂	15.5	0.15	20000317	342.35324	17.39522	204.16654	17.04909	0.2206086	2.6458280	27	1	24 days	0.42	Williams	2000 FV ₂₂
2000 FY ₂₂	14.3	0.15	20000317	95.76085	346.06844	88.46299	12.78400	0.1540373	2.5813777	18	1	24 days	0.40	Williams	2000 FY ₂₂
2000 FA ₂₃	15.4	0.15	20000317	326.15460	181.98326	48.14657	13.24514	0.1387754	2.3528301	30	1	33 days	0.45	Williams	2000 FA ₂₃
2000 FD ₂₃	16.1	0.15	20000317	333.03695	149.28600	93.60923	8.38680	0.3562263	2.9334600	11	1	10 days	0.58	Williams	2000 FD ₂₃
2000 FG ₂₃	13.7	0.15	20000317	313.32841	133.46424	112.62257	11.74586	0.1046252	3.0364959	26	1	33 days	0.49	Williams	2000 FG ₂₃
2000 FH ₂₃	14.6	0.15	20000317	302.21229	167.92308	83.85224	12.16425	0.0400338	3.1135337	14	1	28 days	0.48	Williams	2000 FH ₂₃
2000 FJ ₂₃	15.4	0.15	20000317	289.05667	161.27940	122.74826	10.51173	0.2115713	2.3451950	18	1	28 days	0.55	Williams	2000 FJ ₂₃
2000 FK ₂₃	14.7	0.15	20000317	74.81718	354.34700	100.26732	11.37374	0.1579690	2.3223862	14	1	10 days	0.55	Williams	2000 FK ₂₃
2000 FL ₂₃	14.4	0.15	20000317	29.51226	59.57880	90.40951	12.78931	0.1157780	2.7459425	15	1	10 days	0.47	Williams	2000 FL ₂₃
2000 FM ₂₃	14.9	0.15	20000317	1.69772	91.33985	93.11404	12.54592	0.1374110	2.6103052	23	1	30 days	0.45	Williams	2000 FM ₂₃
2000 FP ₂₃	15.3	0.15	20000317	288.63590	194.33621	79.35975	12.36732	0.1192674	2.6039179	23	1	28 days	0.49	Williams	2000 FP ₂₃
2000 FQ ₂₃	14.4	0.15	20000317	315.60151	99.53995	159.99821	21.25765	0.2411612	3.0331753	23	1	34 days	0.51	Williams	2000 FQ ₂₃
2000 FT ₂₃	14.1	0.15	20000317	311.40606	93.96637	156.18594	17.35937	0.1037365	3.1366513	12	1	10 days	0.76	Williams	2000 FT ₂₃
2000 FU ₂₃	14.0	0.15	20000317	38.39915	54.58542	89.66625	13.16507	0.0809805	2.7649975	21	1	34 days	0.56	Williams	2000 FU ₂₃
2000 FV ₂₃	14.9	0.15	20000317	280.38308	200.01683	88.88488	10.50264	0.1635251	2.5422455	23	1	32 days	0.46	Williams	2000 FV ₂₃

M-v 5

2000 APR. 18

M.P.C. 40501

2000 FW ₂₃	16.0	0.15	20000406	338.06222	123.97684	107.02844	8.10689	0.2270247	2.3380152	18	1	15 days	0.40		Williams	2000 FW ₂₃
2000 FX ₂₃	15.0	0.15	20000317	310.89818	148.11506	112.50304	10.60441	0.2078673	2.7135711	15	1	7 days	0.61	E	Williams	2000 FX ₂₃
2000 FZ ₂₃	14.1	0.15	20000406	160.84968	263.35821	130.95007	12.96085	0.0313304	2.5727262	19	1	16 days	0.47		Williams	2000 FZ ₂₃
2000 FB ₂₄	13.1	0.15	20000317	273.53702	240.68626	69.02889	18.34284	0.3112574	2.9968301	23	1	30 days	0.49		Williams	2000 FB ₂₄
2000 FC ₂₄	14.5	0.15	20000317	23.57590	49.04284	113.81555	15.52221	0.0948396	3.1325196	18	1	28 days	0.37		Williams	2000 FC ₂₄
2000 FE ₂₄	13.9	0.15	20000317	159.90785	261.21849	126.68288	13.38339	0.1840917	2.6529987	25	1	29 days	0.58		Williams	2000 FE ₂₄
2000 FF ₂₄	14.2	0.15	20000317	324.35607	157.14042	84.87369	10.05141	0.2036226	2.4416720	29	1	32 days	0.45		Williams	2000 FF ₂₄
2000 FG ₂₄	15.6	0.15	20000406	16.81821	109.82834	64.89664	11.96441	0.1256014	2.3438684	16	1	15 days	0.45		Williams	2000 FG ₂₄
2000 FH ₂₄	13.7	0.15	20000317	86.76044	320.77897	140.30014	14.57225	0.0473835	2.6914351	18	1	12 days	0.57		Williams	2000 FH ₂₄
2000 FL ₂₄	14.9	0.15	20000406	317.46679	191.50559	94.20816	12.05095	0.4207251	2.7385901	19	1	16 days	0.43		Williams	2000 FL ₂₄
2000 FM ₂₄	13.9	0.15	20000317	78.69629	10.60857	96.81483	12.43691	0.0686468	2.9852464	18	1	10 days	0.69		Williams	2000 FM ₂₄
2000 FN ₂₄	14.4	0.15	20000317	278.09216	184.78610	110.57157	12.58314	0.2390314	2.7552580	12	1	10 days	0.79		Williams	2000 FN ₂₄
2000 FS ₂₄	16.0	0.15	20000317	28.89407	53.91578	90.92800	10.57282	0.1643845	2.3914887	13	1	10 days	0.90		Williams	2000 FS ₂₄
2000 FX ₂₄	14.5	0.15	20000406	313.86359	184.23892	76.09407	10.19308	0.1994674	2.3111518	21	1	15 days	0.32		Williams	2000 FX ₂₄
2000 FA ₂₅	15.5	0.15	20000317	124.85814	357.25317	61.63684	15.08606	0.0826175	2.5397804	10	1	6 days	0.58	E	Williams	2000 FA ₂₅
2000 FB ₂₅	15.9	0.15	20000317	245.72651	259.24364	56.40511	2.46204	0.1640940	2.1321245	10	1	10 days	0.53		Williams	2000 FB ₂₅
2000 FD ₂₅	15.7	0.15	20000317	290.43339	96.13786	179.94743	20.78608	0.1591612	2.2795294	26	1	17 days	0.49		Williams	2000 FD ₂₅
2000 FG ₂₅	15.8	0.15	20000317	314.62870	140.22265	95.16165	2.42589	0.1449668	2.3877826	33	1	39 days	0.55		Williams	2000 FG ₂₅
2000 FJ ₂₅	16.0	0.15	20000317	299.00835	255.69801	3.24550	26.68976	0.1886762	2.3652026	11	1	11 days	0.57		Williams	2000 FJ ₂₅
2000 FK ₂₅	14.3	0.15	20000317	357.25966	347.33896	193.47884	9.22653	0.0385701	3.1689583	38	1	38 days	0.56		Williams	2000 FK ₂₅
2000 FL ₂₅	15.4	0.15	20000317	334.22463	192.21016	28.44091	8.86726	0.1285831	2.7700633	32	1	14 days	0.50		Williams	2000 FL ₂₅
2000 FM ₂₅	14.4	0.15	20000317	332.97815	80.26688	141.20617	4.96181	0.1260030	2.5633045	48	1	43 days	0.52		Williams	2000 FM ₂₅
2000 FP ₂₅	15.5	0.15	20000317	59.76230	41.71142	71.68529	4.20050	0.1295623	2.3948518	31	1	33 days	0.62		Williams	2000 FP ₂₅
2000 FR ₂₅	15.3	0.15	20000317	250.72931	291.13048	26.34506	12.83627	0.2071573	2.3287162	52	1	36 days	0.54		Williams	2000 FR ₂₅
2000 FU ₂₅	15.9	0.15	20000317	6.25502	101.62806	79.90917	3.03110	0.0590735	2.6287051	20	1	12 days	0.53		Williams	2000 FU ₂₅
2000 FV ₂₅	15.8	0.15	20000317	102.86488	322.60640	112.95901	3.05848	0.0956630	2.4035004	21	1	12 days	0.53		Williams	2000 FV ₂₅
2000 FX ₂₅	15.7	0.15	20000317	348.92826	39.68939	160.35295	7.03206	0.0474427	2.2788007	26	1	31 days	0.59		Williams	2000 FX ₂₅
2000 FY ₂₅	15.5	0.15	20000317	248.21929	198.12366	112.25651	3.99780	0.0959610	2.3617557	30	1	33 days	0.68		Williams	2000 FY ₂₅
2000 FA ₂₆	14.4	0.15	20000317	216.52945	275.69111	60.54908	3.03488	0.0927738	2.7038516	31	1	14 days	0.61		Williams	2000 FA ₂₆
2000 FC ₂₆	14.5	0.15	20000317	287.88244	245.06213	26.17711	10.50674	0.1168290	2.7174360	36	1	14 days	0.59		Williams	2000 FC ₂₆
2000 FD ₂₆	14.2	0.15	20000317	326.34956	195.58456	32.26486	5.67855	0.0973779	3.1450450	36	1	14 days	0.59		Williams	2000 FD ₂₆
2000 FF ₂₆	14.8	0.15	20000317	282.43319	219.10439	66.27443	3.02795	0.1865906	2.4168558	46	1	36 days	0.47		Williams	2000 FF ₂₆
2000 FH ₂₆	14.8	0.15	20000317	96.50646	323.59048	123.60011	2.92252	0.0354749	2.8467494	44	1	38 days	0.48		Williams	2000 FH ₂₆
2000 FJ ₂₆	14.8	0.15	20000317	10.06313	82.70324	89.16744	3.19096	0.1433944	2.4316766	33	1	33 days	0.32		Williams	2000 FJ ₂₆
2000 FM ₂₆	15.4	0.15	20000317	317.77281	87.30630	150.95406	4.86768	0.1151375	2.3632665	37	1	40 days	0.41		Williams	2000 FM ₂₆
2000 FN ₂₆	14.1	0.15	20000317	157.19684	204.83750	176.41811	15.12218	0.2292764	2.6082083	12	1	11 days	0.58		Williams	2000 FN ₂₆
2000 FO ₂₆	12.4	0.15	20000317	50.66594	95.26172	19.31633	16.26627	0.1974464	3.1171548	41	1	14 days	0.26		Williams	2000 FO ₂₆
2000 FP ₂₆	15.8	0.15	20000317	270.40968	271.41398	21.93349	8.11835	0.1559195	2.5407979	20	1	10 days	0.65		Williams	2000 FP ₂₆
2000 FR ₂₆	14.1	0.15	20000317	19.00543	155.84367	10.95190	8.27076	0.0392445	3.0273672	23	1	10 days	0.37		Williams	2000 FR ₂₆
2000 FT ₂₆	16.8	0.15	20000317	342.01929	30.50554	179.90890	2.67623	0.1459401	2.4426259	39	1	30 days	0.63		Williams	2000 FT ₂₆
2000 FV ₂₆	15.5	0.15	20000317	341.94958	41.23705	166.41202	4.30921	0.0568279	2.6222444	16	1	29 days	0.43		Williams	2000 FV ₂₆
2000 FW ₂₆	16.7	0.15	20000317	6.01625	84.87072	95.58347	1.09785	0.0832777	2.5281987	20	1	10 days	0.65		Williams	2000 FW ₂₆
2000 FX ₂₆	14.5	0.15	20000317	115.37476	32.03549	27.71670	7.37108	0.1365966	2.4108577	55	1	33 days	0.56		Williams	2000 FX ₂₆
2000 FZ ₂₆	15.0	0.15	20000317	316.37079	249.97440	13.37033	22.76299	0.3035753	3.1053317	40	1	15 days	0.39		Williams	2000 FZ ₂₆
2000 FA ₂₇	14.0	0.15	20000317	231.11977	308.45658	18.32000	10.55510	0.0935814	2.9994241	39	1	14 days	0.40		Williams	2000 FA ₂₇
2000 FB ₂₇	14.2	0.15	20000317	262.95632	116.79226	180.03218	10.97642	0.0852736	2.9825726	36	1	14 days	0.54		Williams	2000 FB ₂₇
2000 FC ₂₇	14.8	0.15	20000317	82.14934	27.00193	67.57594	2.07559	0.1188889	3.0762291	25	1	11 days	0.59		Williams	2000 FC ₂₇
2000 FD ₂₇	14.5	0.15	20000317	108.72552	35.22253	34.72890	6.40494	0.1037270	2.6920127	26	1	14 days	0.44		Williams	2000 FD ₂₇
2000 FE ₂₇	16.3	0.15	20000317	43.28274	119.06889	22.46699	6.94600	0.0456714	2.2955717	22	1	10 days	0.69		Williams	2000 FE ₂₇
2000 FG ₂₇	13.6	0.15	20000317	258.22345	300.14830	10.71977	22.25328	0.1719576	3.1277032	38	1	31 days	0.56		Williams	2000 FG ₂₇
2000 FJ ₂₇	15.9	0.15	20000317	31.23400	318.45169	193.14109	15.47456	0.1170604	3.0580751	32	1	16 days	0.47		Williams	2000 FJ ₂₇
2000 FK ₂₇	15.0	0.15	20000317	205.68789	172.66317	177.10139	2.44757	0.0964659	2.7264066	36	1	14 days	0.52		Williams	2000 FK ₂₇
2000 FL ₂₇	15.8	0.15	20000317	353.09285	184.88092	13.56449	1.90796	0.0327865	2.9368295	36	1	15 days	0.52		Williams	2000 FL ₂₇

2000 FM ₂₇	15.5	0.15	20000317	253.24376	332.89139	328.06962	1.01020	0.0594316	2.6987370	19	1	9 days	0.69	Williams	2000 FM ₂₇
2000 FN ₂₇	16.0	0.15	20000317	40.62221	118.75633	9.52296	12.93126	0.1998182	2.6348544	34	1	14 days	0.48	Williams	2000 FN ₂₇
2000 FP ₂₇	14.6	0.15	20000317	122.12018	219.43702	194.49491	13.28983	0.1544254	2.5486131	41	1	33 days	0.48	Williams	2000 FP ₂₇
2000 FQ ₂₇	13.9	0.15	20000317	132.45990	70.62266	339.90088	1.41473	0.0511333	2.8983324	32	1	14 days	0.58	Williams	2000 FQ ₂₇
2000 FR ₂₇	16.5	0.15	20000317	286.99237	286.07647	349.21744	1.90150	0.1430461	2.3385482	19	1	10 days	0.50	Williams	2000 FR ₂₇
2000 FS ₂₇	14.9	0.15	20000317	329.66179	29.51890	190.69434	14.60574	0.0507171	2.8026863	18	1	10 days	0.38	Williams	2000 FS ₂₇
2000 FT ₂₇	15.1	0.15	20000317	98.51082	208.13256	237.36989	1.61762	0.0330107	2.9956015	25	1	10 days	0.55	Williams	2000 FT ₂₇
2000 FU ₂₇	14.6	0.15	20000317	41.90010	289.93379	195.10415	25.73267	0.2112660	3.1104620	22	1	14 days	0.61	Williams	2000 FU ₂₇
2000 FV ₂₇	14.8	0.15	20000317	321.80531	242.67971	352.19930	8.34953	0.1054234	3.0621362	20	1	12 days	0.47	Williams	2000 FV ₂₇
2000 FW ₂₇	15.4	0.15	20000317	95.12541	220.86969	221.03268	5.37816	0.0983541	2.4082691	15	1	14 days	0.32	Williams	2000 FW ₂₇
2000 FX ₂₇	16.4	0.15	20000317	314.90911	320.57237	294.29544	1.44508	0.2358087	2.3519284	19	1	31 days	0.55	Williams	2000 FX ₂₇
2000 FZ ₂₇	15.1	0.15	20000317	100.03741	248.78596	195.25232	21.82716	0.0395918	2.6508379	32	1	16 days	0.48	Williams	2000 FZ ₂₇
2000 FA ₂₈	16.5	0.15	20000317	41.75860	250.03695	242.57121	1.51096	0.1483380	2.3648429	36	1	29 days	0.51	Williams	2000 FA ₂₈
2000 FB ₂₈	16.0	0.15	20000317	30.86491	195.13824	316.52191	3.00873	0.0956374	2.5739051	16	1	10 days	0.57	Williams	2000 FB ₂₈
2000 FD ₂₈	14.8	0.15	20000317	186.85540	141.54401	224.45833	4.65132	0.1482542	2.5512188	12	1	7 days	0.77	Williams	2000 FD ₂₈
2000 FE ₂₈	16.1	0.15	20000317	31.13935	308.17483	203.52402	4.84150	0.1015573	2.7703934	30	1	14 days	0.43	Williams	2000 FE ₂₈
2000 FF ₂₈	15.0	0.15	20000317	244.50088	78.68338	240.46759	1.29655	0.1250369	3.0574038	19	1	12 days	0.69	Williams	2000 FF ₂₈
2000 FG ₂₈	17.0	0.15	20000317	327.99167	15.74405	210.48151	5.06680	0.0781887	2.2502214	12	1	9 days	0.55	Williams	2000 FG ₂₈
2000 FH ₂₈	13.6	0.15	20000317	100.79276	238.85862	203.68237	12.07864	0.0809985	2.9407637	39	1	37 days	0.42	Williams	2000 FH ₂₈
2000 FL ₂₈	16.3	0.15	20000317	290.63812	332.43900	306.67266	2.99389	0.1724416	2.1914508	21	1	14 days	0.49	Williams	2000 FL ₂₈
2000 FM ₂₈	15.7	0.15	20000317	321.99633	243.35308	354.46046	5.41819	0.1267370	2.2647656	30	1	35 days	0.39	Williams	2000 FM ₂₈
2000 FQ ₂₈	15.0	0.15	20000317	81.06223	92.59877	0.96487	14.62576	0.1359282	2.6844703	16	1	10 days	0.81	Williams	2000 FQ ₂₈
2000 FR ₂₈	15.4	0.15	20000317	304.86643	10.17977	246.69863	3.27267	0.1182056	2.5999741	12	1	10 days	0.56	Williams	2000 FR ₂₈
2000 FT ₂₈	13.7	0.15	20000317	77.40865	251.48204	213.16906	10.05210	0.0629118	2.9965524	27	1	14 days	0.52	Williams	2000 FT ₂₈
2000 FV ₂₈	16.8	0.15	20000317	341.93682	239.33087	329.12800	4.39528	0.0764002	2.2036289	16	1	11 days	0.67	Williams	2000 FV ₂₈
2000 FX ₂₈	16.1	0.15	20000317	308.35816	282.27164	335.09021	6.39181	0.1763921	2.2313819	17	1	11 days	0.42	Williams	2000 FX ₂₈
2000 FA ₂₉	15.9	0.15	20000317	337.74491	272.49193	309.66635	1.78270	0.1923091	2.3202478	38	1	15 days	0.24	Williams	2000 FA ₂₉
2000 FB ₂₉	16.8	0.15	20000317	16.27333	255.59768	270.51571	1.43763	0.1732023	2.2363718	29	1	12 days	0.66	Williams	2000 FB ₂₉
2000 FC ₂₉	13.8	0.15	20000317	11.54617	326.95961	208.40211	6.35388	0.1701904	2.7807598	43	1	15 days	0.41	Williams	2000 FC ₂₉
2000 FD ₂₉	13.7	0.15	20000317	111.99389	233.29754	208.96000	11.42570	0.0055833	3.0640233	26	1	16 days	0.41	Williams	2000 FD ₂₉
2000 FE ₂₉	14.0	0.15	20000317	84.08215	251.68145	206.97468	11.78670	0.1065280	2.9801556	17	1	12 days	0.42	Williams	2000 FE ₂₉
2000 FF ₂₉	13.0	0.15	20000317	27.45630	296.81496	218.63566	4.31606	0.1442985	3.0892991	25	1	35 days	0.38	Williams	2000 FF ₂₉
2000 FG ₂₉	15.7	0.15	20000317	277.56345	286.13236	1.04024	6.49540	0.1198074	2.3368728	14	1	14 days	0.49	Williams	2000 FG ₂₉
2000 FH ₂₉	15.0	0.15	20000317	352.80749	196.13838	6.28963	10.32930	0.1876234	3.1622379	24	1	14 days	0.51	Williams	2000 FH ₂₉
2000 FK ₂₉	15.0	0.15	20000317	294.89944	312.60888	324.25249	1.73926	0.1822269	2.4447199	30	1	32 days	0.44	Williams	2000 FK ₂₉
2000 FN ₂₉	15.2	0.15	20000317	300.80685	278.17352	5.19546	6.80945	0.2782481	2.8473029	26	1	11 days	0.40	Williams	2000 FN ₂₉
2000 FO ₂₉	14.5	0.15	20000317	205.42801	154.97681	196.84972	11.98438	0.0807296	2.8798986	42	1	14 days	0.55	Williams	2000 FO ₂₉
2000 FP ₂₉	15.0	0.15	20000317	108.14307	236.84663	199.71308	2.02712	0.0857719	2.9578876	42	1	17 days	0.58	Williams	2000 FP ₂₉
2000 FQ ₂₉	16.7	0.15	20000317	334.59036	220.54349	5.22148	4.47982	0.1820603	2.2430045	40	1	27 days	0.47	Williams	2000 FQ ₂₉
2000 FR ₂₉	15.3	0.15	20000317	13.41265	154.87281	19.95854	7.55771	0.0986633	3.1447816	30	1	15 days	0.51	Williams	2000 FR ₂₉
2000 FS ₂₉	15.2	0.15	20000317	214.36186	328.18570	15.20303	5.31410	0.1023989	2.5618116	40	1	12 days	0.51	Williams	2000 FS ₂₉
2000 FT ₂₉	15.3	0.15	20000317	17.47336	145.63917	24.59293	5.60450	0.0968183	3.1646847	42	1	15 days	0.54	Williams	2000 FT ₂₉
2000 FU ₂₉	16.7	0.15	20000317	298.49411	94.68645	172.86220	3.76636	0.1561448	2.1846138	22	1	14 days	0.64	Williams	2000 FU ₂₉
2000 FV ₂₉	16.3	0.15	20000317	309.23334	248.88988	16.55791	16.23723	0.2333485	2.5905325	32	1	14 days	0.54	Williams	2000 FV ₂₉
2000 FW ₂₉	16.0	0.15	20000317	42.12383	322.32806	183.54445	6.54938	0.0390547	2.5576047	28	1	11 days	0.35	Williams	2000 FW ₂₉
2000 FX ₂₉	15.3	0.15	20000317	65.30731	84.35341	28.17451	6.35633	0.1141699	2.4580168	30	1	14 days	0.38	Williams	2000 FX ₂₉
2000 FY ₂₉	14.1	0.15	20000317	258.82717	115.71883	187.44957	8.59750	0.0811807	3.0053028	38	1	34 days	0.50	Williams	2000 FY ₂₉
2000 FZ ₂₉	14.9	0.15	20000317	215.27597	171.71025	169.81127	2.22025	0.0594616	2.8724643	39	1	15 days	0.49	Williams	2000 FZ ₂₉
2000 FA ₃₀	15.2	0.15	20000317	132.43185	34.10585	15.77234	30.16471	0.1423422	2.6230895	35	1	13 days	0.39	Williams	2000 FA ₃₀
2000 FB ₃₀	14.8	0.15	20000317	228.94936	150.18481	185.52478	9.33745	0.1493845	2.7227949	30	1	14 days	0.64	Williams	2000 FB ₃₀
2000 FD ₃₀	14.7	0.15	20000317	207.72720	302.76366	47.48316	3.05565	0.1470974	2.5600253	21	1	14 days	0.56	Williams	2000 FD ₃₀
2000 FE ₃₀	16.7	0.15	20000317	299.35123	236.01883	24.43535	7.63443	0.1031110	2.3159071	27	1	10 days	0.55	Williams	2000 FE ₃₀
2000 FF ₃₀	15.9	0.15	20000317	315.45433	201.81256	45.55522	2.92511	0.1536506	2.3951408	31	1	14 days	0.50	Williams	2000 FF ₃₀

2000 APR. 18

M.P.C. 40503

2000 FG ₃₀	13.6	0.15	20000317	181.55872	242.47680	127.81734	3.09364	0.0764848	2.9328165	23	1	14 days	0.49	Williams	2000 FG ₃₀
2000 FH ₃₀	14.3	0.15	20000317	216.65630	162.35727	181.10174	15.12337	0.1446991	2.6102414	26	1	14 days	0.49	Williams	2000 FH ₃₀
2000 FL ₃₀	14.8	0.15	20000317	337.91363	68.40025	152.94697	3.39968	0.1712622	2.5987104	28	1	14 days	0.31	Williams	2000 FL ₃₀
2000 FM ₃₀	14.4	0.15	20000317	171.22979	226.32022	150.09270	6.56014	0.2573054	2.5668925	12	1	10 days	0.67	Williams	2000 FM ₃₀
2000 FN ₃₀	14.2	0.15	20000317	46.98274	337.90768	153.78512	8.03890	0.1201726	3.0101515	23	1	12 days	0.53	Williams	2000 FN ₃₀
2000 FP ₃₀	15.0	0.15	20000317	355.82329	112.86037	80.56319	3.23468	0.1182313	2.3965554	41	1	33 days	0.44	Williams	2000 FP ₃₀
2000 FQ ₃₀	15.2	0.15	20000317	5.40602	154.79223	26.47898	14.10435	0.1342312	2.6664670	36	1	14 days	0.37	Williams	2000 FQ ₃₀
2000 FR ₃₀	15.9	0.15	20000317	13.09482	72.87813	96.05831	3.09186	0.1730174	2.3980973	32	1	14 days	0.46	Williams	2000 FR ₃₀
2000 FS ₃₀	15.1	0.15	20000317	247.78877	224.10276	88.12596	5.15742	0.0974129	2.6666404	21	1	12 days	0.72	Williams	2000 FS ₃₀
2000 FT ₃₀	14.5	0.15	20000317	215.96819	290.64477	51.84281	7.24227	0.1358692	2.4721872	35	1	38 days	0.51	Williams	2000 FT ₃₀
2000 FU ₃₀	14.3	0.15	20000317	53.28464	339.37012	149.08307	5.47181	0.1000802	3.1812134	40	1	14 days	0.68	Williams	2000 FU ₃₀
2000 FX ₃₀	16.3	0.15	20000317	31.03030	27.22200	106.94169	3.76087	0.1009802	2.2260027	22	1	10 days	0.41	Williams	2000 FX ₃₀
2000 FB ₃₁	13.5	0.15	20000317	286.58357	209.65624	49.95707	9.77034	0.1554704	2.7839627	16	1	33 days	0.43	Williams	2000 FB ₃₁
2000 FD ₃₁	13.3	0.15	20000317	269.99522	213.96059	68.14774	8.86738	0.1787972	2.6485397	22	1	34 days	0.42	Williams	2000 FD ₃₁
2000 FF ₃₁	13.6	0.15	20000226	320.37908	119.61784	93.49576	10.15449	0.0899087	3.0584253	26	1	67 days	0.49	M-v 4 Williams	2000 FF ₃₁
2000 FG ₃₁	15.0	0.15	20000317	13.26194	115.67354	31.98519	13.10928	0.2669033	2.5487439	28	1	35 days	0.40	Williams	2000 FG ₃₁
2000 FH ₃₁	13.0	0.15	20000317	72.56308	328.73092	122.66276	11.27308	0.0777743	2.9861024	14	1	11 days	0.44	Williams	2000 FH ₃₁
2000 FJ ₃₁	13.5	0.15	20000317	164.39567	220.35925	148.87999	13.44659	0.0636542	2.6087485	11	1	10 days	0.43	Williams	2000 FJ ₃₁
2000 FK ₃₁	14.5	0.15	20000317	290.67012	129.49374	120.74430	11.40063	0.0581575	2.3174703	20	1	34 days	0.58	Williams	2000 FK ₃₁
2000 FO ₃₁	14.1	0.15	20000226	289.70707	176.51613	81.53594	9.38134	0.1598504	2.5955165	30	1	64 days	0.41	M-v 4 Williams	2000 FO ₃₁
2000 FP ₃₁	11.3	0.15	20000317	285.91385	177.64145	77.69887	11.22531	0.0671928	3.0108609	25	1	36 days	0.56	Williams	2000 FP ₃₁
2000 FT ₃₁	12.7	0.15	20000317	162.63343	278.33431	90.87280	11.83476	0.1527120	3.0699045	27	1	37 days	0.52	Williams	2000 FT ₃₁
2000 FV ₃₁	15.2	0.15	20000317	328.17118	138.49293	88.85483	9.08338	0.2315592	2.6984369	20	1	36 days	0.49	Williams	2000 FV ₃₁
2000 FW ₃₁	14.5	0.15	20000317	272.20672	198.95122	88.12418	9.36952	0.1891489	2.4332076	20	1	34 days	0.59	Williams	2000 FW ₃₁
2000 FY ₃₁	13.2	0.15	20000317	112.66567	3.48603	56.30372	14.90966	0.0681309	2.9676216	12	1	10 days	0.42	Williams	2000 FY ₃₁
2000 FA ₃₂	14.1	0.15	20000317	322.13982	169.19869	57.67854	14.70064	0.1420028	2.7336365	23	1	25 days	0.68	Williams	2000 FA ₃₂
2000 FB ₃₂	13.0	0.15	20000317	209.13925	254.16346	86.32633	14.22944	0.2013195	2.6958181	16	1	24 days	0.53	Williams	2000 FB ₃₂
2000 FC ₃₂	13.7	0.15	20000317	339.43640	99.63382	104.54603	11.97737	0.0534718	2.9693196	27	1	27 days	0.51	Williams	2000 FC ₃₂
2000 FD ₃₂	13.1	0.15	20000317	184.24083	261.15941	101.17898	3.87058	0.1438191	3.0783201	15	1	12 days	0.59	Williams	2000 FD ₃₂
2000 FE ₃₂	15.1	0.15	20000317	75.40478	2.42669	86.45371	3.24442	0.1737186	2.3997742	13	1	12 days	0.38	Williams	2000 FE ₃₂
2000 FF ₃₂	14.9	0.15	20000317	44.22252	336.76843	152.85680	6.02974	0.1268906	3.1530670	32	1	40 days	0.55	Williams	2000 FF ₃₂
2000 FL ₃₂	13.9	0.15	20000317	325.39158	125.45325	102.04257	3.19936	0.0910759	3.1364804	28	1	33 days	0.39	Williams	2000 FL ₃₂
2000 FO ₃₂	13.7	0.15	20000317	234.28644	299.38974	22.66288	10.58101	0.1008080	2.9889232	39	1	33 days	0.44	Williams	2000 FO ₃₂
2000 FP ₃₂	16.7	0.15	20000317	29.38251	82.46253	51.01852	2.58838	0.2747588	2.2854045	35	1	14 days	0.60	Williams	2000 FP ₃₂
2000 FT ₃₂	14.3	0.15	20000317	9.05576	3.07134	173.29030	12.51758	0.0726735	3.1059712	20	1	12 days	0.44	Williams	2000 FT ₃₂
2000 FU ₃₂	15.6	0.15	20000317	53.91870	357.20092	119.71267	3.79017	0.1406029	2.4252039	11	1	12 days	0.48	Williams	2000 FU ₃₂
2000 FW ₃₂	14.3	0.15	20000317	118.85464	283.89596	136.17176	15.35315	0.0432661	2.5959705	19	1	38 days	0.56	Williams	2000 FW ₃₂
2000 FX ₃₂	13.2	0.15	20000317	244.71999	262.05697	40.16112	22.35945	0.0637334	3.2368930	23	1	28 days	0.51	Williams	2000 FX ₃₂
2000 FY ₃₂	13.5	0.15	20000317	252.25556	205.98680	91.61338	14.16931	0.0889997	2.7147528	18	1	34 days	0.38	Williams	2000 FY ₃₂
2000 FZ ₃₂	13.6	0.15	20000317	240.42421	223.22754	92.99355	14.43097	0.1784511	2.5723534	19	1	24 days	0.57	Williams	2000 FZ ₃₂
2000 FA ₃₃	12.7	0.15	20000317	301.31064	170.37180	73.62748	16.45871	0.0503881	3.3985966	28	1	34 days	0.72	Williams	2000 FA ₃₃
2000 FC ₃₃	13.9	0.15	20000317	276.24034	194.73720	82.97296	13.06343	0.1029197	2.6306901	14	1	10 days	0.63	Williams	2000 FC ₃₃
2000 FD ₃₃	12.7	0.15	20000317	344.88592	65.93980	141.05182	17.06879	0.1929953	3.0635979	17	1	13 days	0.24	Williams	2000 FD ₃₃
2000 FE ₃₃	16.0	0.15	20000317	337.92735	79.42489	136.34282	5.35710	0.1422875	2.7006054	16	1	10 days	0.63	Williams	2000 FE ₃₃
2000 FG ₃₃	16.7	0.15	20000317	334.46133	72.72703	151.05393	5.60157	0.2027617	2.5893804	18	1	10 days	0.48	Williams	2000 FG ₃₃
2000 FH ₃₃	14.3	0.15	20000317	310.67229	85.68469	162.76173	9.17593	0.1221648	3.0134269	28	1	36 days	0.34	Williams	2000 FH ₃₃
2000 FK ₃₃	15.7	0.15	20000317	296.26229	227.46595	36.13160	7.01593	0.1275101	2.4212813	18	1	10 days	0.48	Williams	2000 FK ₃₃
2000 FL ₃₃	12.8	0.15	20000317	295.35854	138.17244	111.46742	12.28952	0.0627253	2.9874464	14	1	10 days	0.25	Williams	2000 FL ₃₃
2000 FO ₃₃	13.8	0.15	20000317	24.02108	85.13254	61.32740	12.94851	0.1310516	2.5892321	24	1	34 days	0.43	Williams	2000 FO ₃₃
2000 FP ₃₃	14.5	0.15	20000317	36.24434	56.15684	69.78483	10.34053	0.1920224	2.3943304	16	1	28 days	0.32	Williams	2000 FP ₃₃
2000 FQ ₃₃	14.6	0.15	20000317	21.63209	96.92257	52.72909	13.42721	0.1343518	2.6542638	11	1	10 days	0.36	Williams	2000 FQ ₃₃
2000 FR ₃₃	13.8	0.15	20000317	272.15255	233.35972	45.46552	16.77695	0.1140862	2.6164949	18	1	27 days	0.53	Williams	2000 FR ₃₃
2000 FS ₃₃	14.9	0.15	20000317	249.54494	289.76608	14.57398	12.02562	0.1265780	2.6500606	12	1	9 days	0.65	Williams	2000 FS ₃₃

2000 FU ₃₃	15.6	0.15	20000317	289.11913	105.29395	161.02139	6.40993	0.1118490	2.4405879	23	1	12 days	0.69	Williams	2000 FU ₃₃
2000 FW ₃₃	15.2	0.15	20000317	351.75259	63.15249	128.63867	2.86856	0.0248577	2.6679804	13	1	9 days	0.56	Williams	2000 FW ₃₃
2000 FY ₃₃	16.6	0.15	20000317	184.80445	284.21445	74.94601	2.07775	0.0459141	2.1349158	19	1	12 days	0.61	Williams	2000 FY ₃₃
2000 FA ₃₄	14.4	0.15	20000317	324.21535	55.34360	178.91106	18.07771	0.1648415	3.1317684	23	1	12 days	0.60	Williams	2000 FA ₃₄
2000 FB ₃₄	14.5	0.15	20000317	152.31189	356.19376	35.41128	5.71412	0.0492248	2.8155407	26	1	12 days	0.48	Williams	2000 FB ₃₄
2000 FC ₃₄	14.8	0.15	20000317	29.26179	37.15291	110.35357	3.60724	0.1346738	2.6546682	24	1	33 days	0.41	Williams	2000 FC ₃₄
2000 FD ₃₄	13.0	0.15	20000317	61.99115	333.82321	134.06799	17.89433	0.1337377	3.1877804	23	1	37 days	0.51	Williams	2000 FD ₃₄
2000 FE ₃₄	15.0	0.15	20000317	245.39389	225.01489	80.69047	3.56898	0.0319302	2.6870296	23	1	9 days	0.84	Williams	2000 FE ₃₄
2000 FF ₃₄	14.4	0.15	20000317	285.09005	128.47105	151.20429	5.12876	0.1545832	3.0935249	30	1	33 days	0.63	Williams	2000 FF ₃₄
2000 FH ₃₄	14.0	0.15	20000317	57.08140	36.18095	75.31364	13.38840	0.1310223	2.5328904	20	1	28 days	0.62	Williams	2000 FH ₃₄
2000 FJ ₃₄	14.8	0.15	20000317	342.93883	90.66434	116.23906	12.67220	0.1620204	2.7269499	10	1	10 days	0.51	Williams	2000 FJ ₃₄
2000 FK ₃₄	15.2	0.15	20000317	8.19136	74.34634	95.52090	10.95315	0.1895915	2.4668230	16	1	22 days	0.58	Williams	2000 FK ₃₄
2000 FM ₃₄	15.7	0.15	20000317	339.36052	113.59871	102.48867	10.65698	0.2272564	2.6579872	22	1	30 days	0.53	Williams	2000 FM ₃₄
2000 FO ₃₄	13.8	0.15	20000317	317.13587	102.72670	136.17313	16.97907	0.1163792	3.1173386	18	1	12 days	0.71	Williams	2000 FO ₃₄
2000 FP ₃₄	15.6	0.15	20000317	344.99781	155.49172	47.20642	7.44139	0.0505988	2.3415802	24	1	12 days	0.53	Williams	2000 FP ₃₄
2000 FQ ₃₄	13.5	0.15	20000317	109.73283	342.63476	85.76620	5.52516	0.1025142	3.2347069	31	1	12 days	0.52	Williams	2000 FQ ₃₄
2000 FS ₃₄	15.8	0.15	20000317	84.29271	74.95255	17.64893	15.25249	0.0851185	2.4279789	37	1	30 days	0.77	Williams	2000 FS ₃₄
2000 FV ₃₄	14.6	0.15	20000317	171.19811	220.58785	155.51802	4.90977	0.0827325	2.7869654	30	1	31 days	0.61	Williams	2000 FV ₃₄
2000 FZ ₃₄	16.3	0.15	20000317	311.13457	185.67322	64.15978	2.45560	0.1449586	2.1755921	40	1	14 days	0.63	Williams	2000 FZ ₃₄
2000 FA ₃₅	15.3	0.15	20000317	317.24919	181.94667	61.90593	3.53988	0.1411043	2.7706879	32	1	12 days	0.50	Williams	2000 FA ₃₅
2000 FB ₃₅	16.5	0.15	20000317	320.16464	103.11050	140.14072	2.90976	0.1872814	2.2770340	40	1	12 days	0.57	Williams	2000 FB ₃₅
2000 FF ₃₅	15.9	0.15	20000317	48.20332	0.80326	127.64736	3.52128	0.1211521	2.4283766	29	1	12 days	0.58	Williams	2000 FF ₃₅
2000 FH ₃₅	14.3	0.15	20000317	290.11100	135.47557	133.25557	3.81102	0.0792262	2.8026057	34	1	14 days	0.47	Williams	2000 FH ₃₅
2000 FJ ₃₅	14.2	0.15	20000317	322.98259	73.42073	154.50434	5.85820	0.0132449	2.7160733	32	1	12 days	0.28	Williams	2000 FJ ₃₅
2000 FL ₃₅	13.9	0.15	20000317	320.93291	187.99519	51.85807	6.36331	0.1416551	3.1467991	32	1	33 days	0.42	Williams	2000 FL ₃₅
2000 FN ₃₅	14.5	0.15	20000317	288.21884	133.09099	134.66492	5.15259	0.0639221	2.6056469	18	1	10 days	0.42	Williams	2000 FN ₃₅
2000 FO ₃₅	15.1	0.15	20000317	50.11957	308.20971	160.22720	6.89828	0.2820544	2.7910740	15	1	10 days	0.80	Williams	2000 FO ₃₅
2000 FP ₃₅	14.1	0.15	20000317	267.71109	170.81947	125.97728	4.95335	0.1310944	2.7013378	19	1	12 days	0.50	Williams	2000 FP ₃₅
2000 FQ ₃₅	14.9	0.15	20000317	312.99864	212.66280	30.43485	14.11659	0.0944895	2.6842590	22	1	30 days	0.68	Williams	2000 FQ ₃₅
2000 FT ₃₅	15.4	0.15	20000317	45.15667	51.03577	68.93957	5.14019	0.2301155	2.5589267	13	1	10 days	0.50	Williams	2000 FT ₃₅
2000 FU ₃₅	13.8	0.15	20000317	160.99457	259.49507	126.36454	6.14313	0.0930769	2.7331073	14	1	6 days	0.56	E Williams	2000 FU ₃₅
2000 FB ₃₆	13.3	0.15	20000317	285.49463	158.41006	107.52475	14.72790	0.0366603	3.1692657	12	1	10 days	0.53	Williams	2000 FB ₃₆
2000 FD ₃₆	15.2	0.15	20000317	29.91831	107.20416	46.93376	9.98706	0.0730240	2.7483378	12	1	6 days	0.42	E Williams	2000 FD ₃₆
2000 FE ₃₆	14.5	0.15	20000317	213.74793	309.82584	36.41301	15.28012	0.1970267	2.5566556	14	1	6 days	0.46	E Williams	2000 FE ₃₆
2000 FF ₃₆	15.8	0.15	20000317	90.42202	305.55747	146.65132	7.47033	0.0605831	2.3400096	29	1	33 days	0.65	Williams	2000 FF ₃₆
2000 FL ₃₆	16.0	0.15	20000317	94.73354	287.75783	158.61818	7.05294	0.0776999	2.3275980	12	1	8 days	0.52	Williams	2000 FL ₃₆
2000 FM ₃₆	16.1	0.15	20000317	12.49397	83.30466	89.84167	4.02299	0.1102042	2.4643208	22	1	12 days	0.61	Williams	2000 FM ₃₆
2000 FO ₃₆	13.3	0.15	20000317	94.59636	279.65713	169.99139	10.91966	0.0633455	2.9839282	23	1	10 days	0.49	Williams	2000 FO ₃₆
2000 FQ ₃₆	14.9	0.15	20000317	297.41272	96.01784	176.63616	11.81874	0.1795117	2.5346180	23	1	10 days	0.37	Williams	2000 FQ ₃₆
2000 FR ₃₆	13.4	0.15	20000317	77.24425	300.17585	172.94522	12.68038	0.0184748	3.3742934	43	1	33 days	0.62	Williams	2000 FR ₃₆
2000 FS ₃₆	16.8	0.15	20000317	324.14508	165.96074	68.98140	2.18962	0.1467100	2.3700527	38	1	14 days	0.67	Williams	2000 FS ₃₆
2000 FT ₃₆	15.1	0.15	20000317	108.77661	17.93536	58.98599	2.88770	0.0423133	2.8299316	22	1	12 days	0.60	Williams	2000 FT ₃₆
2000 FV ₃₆	16.0	0.15	20000317	38.67357	330.64434	173.81128	5.94519	0.0803311	2.4310211	22	1	12 days	0.63	Williams	2000 FV ₃₆
2000 FW ₃₆	14.6	0.15	20000317	262.60431	153.94110	150.13738	3.34271	0.1529655	2.2705970	24	1	12 days	0.33	Williams	2000 FW ₃₆
2000 FX ₃₆	14.4	0.15	20000317	272.50776	185.80198	110.19562	2.44582	0.1435148	3.0761199	25	1	10 days	0.74	Williams	2000 FX ₃₆
2000 FY ₃₆	16.3	0.15	20000317	28.51894	337.70424	173.11138	7.91283	0.1408546	2.3707472	27	1	12 days	0.70	Williams	2000 FY ₃₆
2000 FZ ₃₆	14.0	0.15	20000317	274.26147	110.21113	177.25463	10.79934	0.0890308	2.9702914	32	1	33 days	0.51	Williams	2000 FZ ₃₆
2000 FC ₃₇	14.9	0.15	20000317	242.91152	272.52739	53.93245	5.40774	0.2071898	2.2361876	29	1	33 days	0.36	Williams	2000 FC ₃₇
2000 FE ₃₇	14.9	0.15	20000317	54.18233	345.31634	132.84469	4.02132	0.1780633	2.7238686	34	1	35 days	0.66	Williams	2000 FE ₃₇
2000 FG ₃₇	15.1	0.15	20000317	301.43816	179.60370	92.15355	3.48232	0.2174128	2.3250398	39	1	12 days	0.48	Williams	2000 FG ₃₇
2000 FJ ₃₇	15.0	0.15	20000317	109.20869	333.05907	94.31723	5.07986	0.1384883	2.5269140	22	1	12 days	0.46	Williams	2000 FJ ₃₇
2000 FM ₃₇	13.8	0.15	20000317	38.33525	72.44393	76.83664	6.29874	0.0522006	3.0907189	17	1	10 days	0.69	Williams	2000 FM ₃₇
2000 FN ₃₇	14.3	0.15	20000317	300.28579	97.30916	163.25031	10.57213	0.0834129	3.0065492	33	1	43 days	0.55	Williams	2000 FN ₃₇

2000 APR. 18

M.P.C. 40505

2000 FP ₃₇	14.5	0.15	20000317	283.32100	219.68407	70.66386	5.89738	0.2089791	2.4194385	19	1	31 days	0.33	Williams	2000 FP ₃₇
2000 FQ ₃₇	16.0	0.15	20000317	313.06654	112.02721	141.34548	5.81385	0.1823024	2.3850715	19	1	10 days	0.45	Williams	2000 FQ ₃₇
2000 FR ₃₇	15.1	0.15	20000317	27.15357	0.59198	153.30450	7.78666	0.1341825	2.5375617	34	1	43 days	0.59	Williams	2000 FR ₃₇
2000 FS ₃₇	14.8	0.15	20000317	350.89949	76.86468	123.08649	5.95012	0.0681754	2.5898103	27	1	12 days	0.48	Williams	2000 FS ₃₇
2000 FT ₃₇	15.8	0.15	20000317	300.49456	185.02380	79.11009	5.81274	0.1464242	2.3752598	23	1	10 days	0.48	Williams	2000 FT ₃₇
2000 FU ₃₇	15.7	0.15	20000317	358.96150	131.01475	58.02608	7.19396	0.1969963	2.4048736	26	1	34 days	0.41	Williams	2000 FU ₃₇
2000 FV ₃₇	13.7	0.15	20000317	29.31341	75.33294	75.49243	14.61486	0.0996434	2.5941098	24	1	24 days	0.26	Williams	2000 FV ₃₇
2000 FW ₃₇	15.5	0.15	20000317	132.75483	340.99136	69.50986	7.59868	0.1003051	2.3586192	22	1	28 days	0.50	Williams	2000 FW ₃₇
2000 FY ₃₇	14.8	0.15	20000317	37.12500	94.43141	49.40040	9.95660	0.1186498	2.7386816	19	1	10 days	0.41	Williams	2000 FY ₃₇
2000 FZ ₃₇	14.1	0.15	20000317	73.81351	64.96024	28.35820	25.97354	0.2070555	3.1910080	18	1	10 days	0.50	Williams	2000 FZ ₃₇
2000 FB ₃₈	14.0	0.15	20000406	236.59878	194.29878	137.69839	7.28148	0.1404534	2.3083284	23	1	15 days	0.46	Williams	2000 FB ₃₈
2000 FC ₃₈	16.1	0.15	20000317	325.93095	122.77607	119.63027	4.46277	0.2254309	2.6270023	14	1	10 days	0.63	Williams	2000 FC ₃₈
2000 FD ₃₈	14.9	0.15	20000317	312.43711	148.03936	94.64433	5.33860	0.0406719	2.7082051	23	1	10 days	0.63	Williams	2000 FD ₃₈
2000 FE ₃₈	13.0	0.15	20000406	128.87261	256.25255	160.32298	9.99680	0.1498184	3.0436015	26	1	15 days	0.36	Williams	2000 FE ₃₈
2000 FH ₃₈	15.0	0.15	20000317	286.30569	227.23605	58.86556	3.53957	0.1927135	2.3340672	24	1	33 days	0.32	Williams	2000 FH ₃₈
2000 FJ ₃₈	15.9	0.15	20000317	343.22900	41.32334	169.66243	5.62569	0.0983466	2.5591537	30	1	14 days	0.59	Williams	2000 FJ ₃₈
2000 FL ₃₈	14.1	0.15	20000317	4.78942	160.29310	24.17746	17.77224	0.1501873	3.1094821	33	1	33 days	0.49	Williams	2000 FL ₃₈
2000 FO ₃₈	16.2	0.15	20000317	332.53019	168.46706	57.57571	3.26283	0.1438548	2.3800330	29	1	12 days	0.57	Williams	2000 FO ₃₈
2000 FP ₃₈	15.0	0.15	20000317	123.88468	257.18983	165.39488	6.06835	0.0725945	2.7633160	16	1	12 days	0.47	Williams	2000 FP ₃₈
2000 FR ₃₈	15.1	0.15	20000317	340.96218	33.51144	184.50436	11.01032	0.1663938	2.7814315	22	1	12 days	0.48	Williams	2000 FR ₃₈
2000 FS ₃₈	15.5	0.15	20000317	264.54795	190.18596	118.91369	2.17379	0.1979003	2.3882217	26	1	12 days	0.72	Williams	2000 FS ₃₈
2000 FU ₃₈	15.2	0.15	20000317	316.75371	180.62525	67.65021	3.27210	0.1608818	2.3841941	35	1	33 days	0.46	Williams	2000 FU ₃₈
2000 FV ₃₈	13.7	0.15	20000317	146.01542	220.47209	179.84908	13.52040	0.1680471	3.0629491	22	1	12 days	0.48	Williams	2000 FV ₃₈
2000 FX ₃₈	15.9	0.15	20000317	275.98332	160.85351	127.45115	4.17465	0.1077691	2.5789210	14	1	8 days	0.69	Williams	2000 FX ₃₈
2000 FY ₃₈	15.6	0.15	20000317	325.18758	178.84773	58.31945	5.14020	0.1392931	2.8056296	16	1	10 days	0.58	Williams	2000 FY ₃₈
2000 FA ₃₉	14.7	0.15	20000317	336.37727	179.90656	40.58377	8.71628	0.1035564	2.7154362	23	1	12 days	0.66	Williams	2000 FA ₃₉
2000 FC ₃₉	14.0	0.15	20000317	288.60317	258.08333	24.56610	26.75529	0.1626332	3.1658082	27	1	12 days	0.67	Williams	2000 FC ₃₉
2000 FE ₃₉	16.5	0.15	20000317	36.55019	97.73441	48.25970	5.60590	0.1000022	2.2203054	26	1	12 days	0.73	Williams	2000 FE ₃₉
2000 FG ₃₉	14.2	0.15	20000317	305.69576	158.79721	104.61246	2.64077	0.1507579	3.1370256	19	1	12 days	0.57	Williams	2000 FG ₃₉
2000 FJ ₃₉	13.4	0.15	20000317	325.76541	118.45886	113.51406	2.98931	0.0529499	3.0155071	27	1	13 days	0.57	Williams	2000 FJ ₃₉
2000 FK ₃₉	12.4	0.15	20000317	16.24117	15.52640	161.67484	5.37788	0.0316730	3.0470233	25	1	32 days	0.36	Williams	2000 FK ₃₉
2000 FM ₃₉	13.9	0.15	20000317	267.96642	128.59490	177.68118	10.76332	0.1686907	3.0874520	13	1	10 days	0.74	Williams	2000 FM ₃₉
2000 FO ₃₉	15.8	0.15	20000317	322.24926	193.01494	49.45933	4.80554	0.1628546	2.4345138	20	1	13 days	0.51	Williams	2000 FO ₃₉
2000 FP ₃₉	13.3	0.15	20000317	191.37902	271.45943	96.82500	4.50943	0.1736593	3.4275319	20	1	10 days	0.71	Williams	2000 FP ₃₉
2000 FQ ₃₉	16.6	0.15	20000317	28.49971	74.82174	80.08130	3.36923	0.1284854	2.4358334	16	1	12 days	0.50	Williams	2000 FQ ₃₉
2000 FR ₃₉	14.1	0.15	20000317	290.46275	240.50733	33.57988	12.35081	0.1007746	2.7138613	28	1	12 days	0.54	Williams	2000 FR ₃₉
2000 FU ₃₉	16.2	0.15	20000317	316.98496	189.47947	58.03948	4.75576	0.1500073	2.2729236	23	1	10 days	0.37	Williams	2000 FU ₃₉
2000 FX ₃₉	16.5	0.15	20000317	353.42042	151.61653	46.89473	6.38820	0.1063333	2.2418479	33	1	33 days	0.57	Williams	2000 FX ₃₉
2000 FA ₄₀	15.0	0.15	20000406	306.16696	190.36025	79.37579	4.85873	0.1796524	2.3753709	25	1	15 days	0.44	Williams	2000 FA ₄₀
2000 FC ₄₀	15.6	0.15	20000317	337.45519	170.54136	48.40892	7.24022	0.1210529	2.3310165	27	1	33 days	0.38	Williams	2000 FC ₄₀
2000 FD ₄₀	14.1	0.15	20000317	230.24055	287.87527	50.76368	9.63733	0.2007717	2.6128482	18	1	10 days	0.36	Williams	2000 FD ₄₀
2000 FE ₄₀	14.9	0.15	20000317	237.13400	255.29085	65.24605	6.79866	0.0415604	2.7724483	19	1	10 days	0.51	Williams	2000 FE ₄₀
2000 FG ₄₀	14.9	0.15	20000317	1.36456	30.65543	158.37244	8.35749	0.2052683	2.7603233	27	1	13 days	0.34	Williams	2000 FG ₄₀
2000 FJ ₄₀	14.1	0.15	20000317	143.40632	248.46101	152.09009	9.41789	0.1640486	2.5717790	29	1	36 days	0.50	Williams	2000 FJ ₄₀
2000 FL ₄₀	14.0	0.15	20000317	317.97149	87.00649	151.23591	9.81801	0.0299933	3.0939882	18	1	10 days	0.36	Williams	2000 FL ₄₀
2000 FM ₄₀	15.4	0.15	20000317	10.33063	111.45287	68.05824	7.11438	0.0301774	2.2632400	21	1	11 days	0.44	Williams	2000 FM ₄₀
2000 FN ₄₀	14.0	0.15	20000317	120.62761	272.68363	149.36039	9.13049	0.1303885	2.7626587	13	1	10 days	0.48	Williams	2000 FN ₄₀
2000 FP ₄₀	15.8	0.15	20000317	78.68441	11.38489	80.81906	6.89589	0.1791594	2.2661940	17	1	6 days	0.69	E Williams	2000 FP ₄₀
2000 FQ ₄₀	13.3	0.15	20000317	257.72396	296.86092	29.35891	32.77784	0.3214956	2.8819870	14	1	10 days	0.54	Williams	2000 FQ ₄₀
2000 FS ₄₀	14.8	0.15	20000317	341.99487	42.64991	169.97729	14.20637	0.0262446	2.5321665	14	1	10 days	0.52	Williams	2000 FS ₄₀
2000 FT ₄₀	13.4	0.15	20000317	207.77218	282.49471	73.29327	9.16596	0.1721758	3.0194720	18	1	10 days	0.67	Williams	2000 FT ₄₀
2000 FU ₄₀	16.3	0.15	20000317	23.02589	21.49314	143.02369	6.04646	0.0737472	2.1833174	20	1	31 days	0.59	Williams	2000 FU ₄₀
2000 FV ₄₀	14.0	0.15	20000317	339.22661	146.86770	70.76272	8.11922	0.0625486	2.9884712	18	1	10 days	0.36	Williams	2000 FV ₄₀

2000 FW ₄₀	14.7	0.15	20000317	251.28940	237.08718	78.06589	6.89049	0.1263348	2.3756157	18	1	10 days	0.39	M-v 6	Williams	2000 FW ₄₀
2000 FX ₄₀	13.8	0.15	20000317	114.16519	22.88446	40.99107	13.73214	0.1649568	2.6727043	30	1	34 days	0.57		Williams	2000 FX ₄₀
2000 FY ₄₀	15.3	0.15	20000406	311.15916	152.95307	98.57697	5.14199	0.0477135	2.8031975	22	1	15 days	0.67		Williams	2000 FY ₄₀
2000 FZ ₄₀	14.3	0.15	20000226	12.72072	97.26631	75.94972	4.57123	0.0229163	2.2994245	30	1	65 days	0.51		Williams	2000 FZ ₄₀
2000 FA ₄₁	14.3	0.15	20000317	37.43215	66.51905	73.32476	5.40637	0.1845336	2.7143391	29	1	36 days	0.62		Williams	2000 FA ₄₁
2000 FF ₄₁	14.2	0.15	20000317	319.57126	82.59318	158.46343	5.13437	0.0943266	2.3842245	21	1	34 days	0.68		Williams	2000 FF ₄₁
2000 FG ₄₁	14.1	0.15	20000317	71.78583	338.51869	143.02248	5.04585	0.0196146	2.8002635	15	1	10 days	0.44	E	Williams	2000 FG ₄₁
2000 FH ₄₁	15.8	0.15	20000317	316.54361	194.42812	48.17389	7.55541	0.0738479	2.3851872	17	1	14 days	0.59		Williams	2000 FH ₄₁
2000 FK ₄₁	14.6	0.15	20000317	294.20341	107.76957	173.16985	11.25894	0.1747317	2.6901643	13	1	10 days	0.55		Williams	2000 FK ₄₁
2000 FO ₄₁	15.9	0.15	20000317	334.30972	51.14929	176.51040	14.41328	0.1308083	2.6127218	37	1	36 days	0.68		Williams	2000 FO ₄₁
2000 FP ₄₁	14.9	0.15	20000406	343.43607	107.24624	116.78378	5.35518	0.2106570	2.4528578	22	1	15 days	0.57		Williams	2000 FP ₄₁
2000 FS ₄₁	14.5	0.15	20000406	298.04924	205.84107	64.42438	7.94373	0.0928940	2.2938004	20	1	15 days	0.44		Williams	2000 FS ₄₁
2000 FT ₄₁	13.8	0.15	20000317	14.42882	33.27968	144.59658	7.22482	0.0430385	2.3745836	31	1	36 days	0.42	E	Williams	2000 FT ₄₁
2000 FU ₄₁	15.3	0.15	20000317	165.29575	332.38227	50.36370	2.93340	0.0947757	2.5336164	25	1	8 days	0.54		Williams	2000 FU ₄₁
2000 FV ₄₁	16.7	0.15	20000317	53.80960	349.99184	135.29203	5.69523	0.0987686	2.2627696	16	1	6 days	0.69		Williams	2000 FV ₄₁
2000 FX ₄₁	15.4	0.15	20000317	246.45563	266.44656	60.81837	8.17929	0.2459130	2.3838164	17	1	10 days	0.64		Williams	2000 FX ₄₁
2000 FZ ₄₁	15.7	0.15	20000317	314.15599	203.35961	39.47641	6.65063	0.0535998	2.5447657	29	1	12 days	0.86		Williams	2000 FZ ₄₁
2000 FC ₄₂	15.5	0.15	20000317	359.57571	64.69406	127.87991	6.24043	0.0533144	2.3275817	14	1	10 days	0.43		Williams	2000 FC ₄₂
2000 FF ₄₂	14.5	0.15	20000317	67.56129	312.08293	154.82887	4.77144	0.1752589	2.6649449	15	1	30 days	0.40	E	Williams	2000 FF ₄₂
2000 FG ₄₂	12.8	0.15	20000317	264.09415	151.06038	149.49925	9.08099	0.0699367	3.0817810	16	1	14 days	0.45		Williams	2000 FG ₄₂
2000 FJ ₄₂	14.9	0.15	20000317	256.50298	251.89003	50.79978	5.25565	0.0937570	2.7322308	26	1	12 days	0.63		Williams	2000 FJ ₄₂
2000 FK ₄₂	15.5	0.15	20000317	180.74550	201.55974	168.97080	6.74616	0.1233472	2.1849670	29	1	32 days	0.54		Williams	2000 FK ₄₂
2000 FL ₄₂	14.3	0.15	20000317	132.32225	12.40763	46.86133	9.62823	0.0253657	3.0251427	11	1	12 days	0.50		Williams	2000 FL ₄₂
2000 FM ₄₂	15.2	0.15	20000317	323.30112	206.36044	25.46104	13.69690	0.0275169	2.3311445	23	1	9 days	0.47		Williams	2000 FM ₄₂
2000 FN ₄₂	16.1	0.15	20000406	46.73786	291.43692	215.77244	22.09066	0.0996822	1.9658856	9	1	13 days	0.28	E	Williams	2000 FN ₄₂
2000 FT ₄₂	13.9	0.15	20000317	322.27124	132.53945	86.37533	2.67383	0.0585139	2.9951475	14	1	13 days	0.19		Williams	2000 FT ₄₂
2000 FV ₄₂	14.6	0.15	20000317	231.92568	266.59153	44.71343	4.20144	0.0547985	2.4367065	23	1	29 days	0.38		Williams	2000 FV ₄₂
2000 FB ₄₃	14.3	0.15	20000317	45.85897	104.51341	15.87160	10.32898	0.1400284	3.0532101	25	1	15 days	0.53		Williams	2000 FB ₄₃
2000 FG ₄₃	15.1	0.15	20000317	299.30192	182.11878	80.09147	3.77840	0.1695272	2.3895138	38	1	30 days	0.54		Williams	2000 FG ₄₃
2000 FH ₄₃	15.2	0.15	20000317	335.94234	72.19338	138.80831	6.14670	0.0782666	2.3009222	20	1	30 days	0.67		Williams	2000 FH ₄₃
2000 FJ ₄₃	13.4	0.15	20000317	127.92065	21.45102	31.46197	12.45247	0.0324954	2.9333750	13	1	9 days	0.35	E	Williams	2000 FJ ₄₃
2000 FK ₄₃	13.8	0.15	20000317	105.32099	271.41386	161.44721	15.98311	0.0613265	3.1598801	13	1	9 days	0.61		Williams	2000 FK ₄₃
2000 FT ₄₃	15.6	0.15	20000317	137.13550	351.65480	52.07284	3.41622	0.0849510	2.5963507	16	1	8 days	0.61		Williams	2000 FT ₄₃
2000 FV ₄₃	15.3	0.15	20000317	329.16483	105.62582	116.84229	4.32167	0.1181263	2.1960508	20	1	31 days	0.44		Williams	2000 FV ₄₃
2000 FB ₄₄	14.3	0.15	20000406	271.42545	233.48069	66.54733	8.22148	0.1851896	2.2374078	19	1	15 days	0.46		Williams	2000 FB ₄₄
2000 FF ₄₄	15.8	0.15	20000317	289.90676	139.34789	120.82307	5.25816	0.0806120	2.1925297	13	1	9 days	0.40		Williams	2000 FF ₄₄
2000 FG ₄₄	14.1	0.15	20000317	224.48545	301.82479	25.90172	13.36553	0.1644151	2.5784530	11	1	9 days	0.55	E	Williams	2000 FG ₄₄
2000 FH ₄₄	13.5	0.15	20000317	229.58628	291.79394	25.84896	10.92139	0.0822939	3.0656858	15	1	12 days	0.50		Williams	2000 FH ₄₄
2000 FJ ₄₄	15.6	0.15	20000317	1.45874	137.11471	41.13034	5.37658	0.1350867	2.4470067	22	1	15 days	0.53		Williams	2000 FJ ₄₄
2000 FL ₄₄	14.7	0.15	20000317	34.81190	331.89630	165.90483	12.65220	0.1153926	2.6134014	24	1	18 days	0.52		Williams	2000 FL ₄₄
2000 FN ₄₄	14.2	0.15	20000317	20.21808	62.38946	92.75273	3.82453	0.1419606	3.2793291	25	1	15 days	0.54		Williams	2000 FN ₄₄
2000 FO ₄₄	13.6	0.15	20000317	339.61960	158.51020	48.83645	5.50866	0.1082379	3.1972867	13	1	9 days	0.26		Williams	2000 FO ₄₄
2000 FR ₄₄	13.8	0.15	20000317	143.12043	253.84054	142.27364	9.95187	0.0623098	3.1014661	29	1	31 days	0.53	E	Williams	2000 FR ₄₄
2000 FU ₄₄	13.2	0.15	20000317	212.17263	294.07790	43.42799	11.44249	0.1213943	2.9784995	12	1	9 days	0.37		Williams	2000 FU ₄₄
2000 FV ₄₄	15.1	0.15	20000317	46.28180	81.04102	51.04177	6.88483	0.0426312	2.3696698	11	1	9 days	0.65		Williams	2000 FV ₄₄
2000 FW ₄₄	15.7	0.15	20000317	35.15201	72.84027	63.73495	5.20924	0.1354086	2.2990461	12	1	9 days	0.33		Williams	2000 FW ₄₄
2000 FB ₄₅	15.1	0.15	20000317	228.93327	185.88451	136.99860	2.75950	0.0559373	2.8491444	18	1	8 days	0.46		Williams	2000 FB ₄₅
2000 FD ₄₅	16.7	0.15	20000317	297.18245	150.72388	120.64777	1.81921	0.2048448	2.2132931	29	1	31 days	0.56	E	Williams	2000 FD ₄₅
2000 FO ₄₅	16.3	0.15	20000317	78.16789	303.30661	154.73618	3.49645	0.1038069	2.3014474	16	1	9 days	0.74		Williams	2000 FO ₄₅
2000 FS ₄₅	16.2	0.15	20000317	320.17618	149.19677	85.93027	5.26713	0.1049991	2.2400294	23	1	33 days	0.49		Williams	2000 FS ₄₅
2000 FY ₄₅	13.3	0.15	20000406	183.16583	231.20535	140.33824	12.14326	0.1352265	2.7566217	17	1	15 days	0.46		Williams	2000 FY ₄₅
2000 FA ₄₆	14.6	0.15	20000406	290.20505	179.57172	105.89947	8.53832	0.1858987	2.4321385	20	1	15 days	0.51		Williams	2000 FA ₄₆
2000 FB ₄₆	14.4	0.15	20000406	19.05206	44.89637	128.21836	7.57380	0.0422864	2.3850609	19	1	15 days	0.55		Williams	2000 FB ₄₆

2000 APR. 18

M.P.C. 40507

2000 FK ₄₆	15.2	0.15	20000317	20.21278	83.62290	79.43550	6.16312	0.1028905	2.3441537	33	1	33 days	0.42	Williams	2000 FK ₄₆
2000 FL ₄₆	15.9	0.15	20000317	28.02265	91.52515	62.51925	7.54662	0.0918046	2.2600592	28	1	33 days	0.64	Williams	2000 FL ₄₆
2000 FP ₄₆	14.2	0.15	20000317	0.88998	27.23315	164.01808	13.80447	0.0340228	3.1179132	18	1	10 days	0.35	Williams	2000 FP ₄₆
2000 FQ ₄₆	14.8	0.15	20000317	49.60477	320.40687	168.20919	13.65461	0.1303185	2.6305559	18	1	10 days	0.40	Williams	2000 FQ ₄₆
2000 FR ₄₆	15.4	0.15	20000317	240.39319	241.91729	79.27109	7.20499	0.1243443	2.3156665	17	1	10 days	0.43	Williams	2000 FR ₄₆
2000 FD ₄₇	13.9	0.15	20000317	183.08682	282.27178	87.27180	11.12906	0.0685744	2.9563449	23	1	32 days	0.48	Williams	2000 FD ₄₇
2000 FF ₄₇	13.6	0.15	20000406	238.24235	170.76912	154.42289	14.53560	0.0776258	2.5641310	19	1	15 days	0.55	Williams	2000 FF ₄₇
2000 FG ₄₇	15.5	0.15	20000317	1.98744	22.29480	163.93290	13.28037	0.1908334	2.5762825	24	1	33 days	0.59	Williams	2000 FG ₄₇
2000 FL ₄₇	12.9	0.15	20000317	64.33886	321.48979	155.52188	12.30698	0.1099540	3.1715849	22	1	12 days	0.49	Williams	2000 FL ₄₇
2000 FT ₄₇	13.6	0.15	20000406	156.35530	244.72326	155.25218	13.14449	0.0329612	2.7540882	19	1	15 days	0.48	Williams	2000 FT ₄₇
2000 FW ₄₇	12.9	0.15	20000317	103.47446	342.92594	102.91204	11.06164	0.0392510	2.9853945	21	1	37 days	0.45	Williams	2000 FW ₄₇
2000 FZ ₄₇	12.9	0.15	20000317	227.35374	249.73497	81.42381	11.94925	0.0573889	3.0406753	32	1	37 days	0.41	Williams	2000 FZ ₄₇
2000 FE ₄₈	13.5	0.15	20000317	142.02309	253.57252	149.10341	3.11490	0.2115581	2.8780102	17	1	9 days	0.52	Williams	2000 FE ₄₈
2000 FM ₄₈	15.4	0.15	20000317	331.69477	206.30784	19.71578	27.83511	0.0854695	3.1477483	29	1	13 days	0.48	Williams	2000 FM ₄₈
2000 FT ₄₈	13.4	0.15	20000317	300.18191	22.69547	242.22966	10.38645	0.0983900	3.0168204	13	1	11 days	0.37	Williams	2000 FT ₄₈
2000 FC ₄₉	14.6	0.15	20000317	293.85574	319.64153	322.22683	4.45582	0.1632139	2.4137892	17	1	27 days	0.52	Williams	2000 FC ₄₉
2000 FD ₄₉	13.0	0.15	20000317	202.54287	151.71801	208.18836	12.22003	0.0796967	2.9436357	28	1	11 days	0.46	Williams	2000 FD ₄₉
2000 FY ₄₉	13.8	0.15	20000317	290.28216	317.54994	336.79836	2.24344	0.1851633	2.4301797	18	1	11 days	0.71	Williams	2000 FY ₄₉
2000 FF ₅₀	12.7	0.15	20000226	42.45338	69.83544	76.60358	11.40817	0.0316417	2.9999580	33	1	67 days	0.50	M-v 5 Williams	2000 FF ₅₀
2000 FH ₅₀	14.2	0.15	20000406	270.10090	126.22400	158.66382	9.42683	0.1178118	3.1683942	18	1	9 days	0.69	Williams	2000 FH ₅₀
2000 FJ ₅₀	15.5	0.15	20000317	295.92118	223.86602	31.72556	6.33962	0.1217964	2.4796388	10	1	8 days	0.33	Williams	2000 FJ ₅₀
2000 FX ₅₀	17.5	0.15	20000317	321.31116	32.36298	198.17283	3.66992	0.0381861	2.7770992	9	1	14 days	0.29	Williams	2000 FX ₅₀
2000 FC ₅₁	17.0	0.15	20000317	86.08700	95.96811	6.04034	2.51237	0.0117905	2.7462917	13	1	13 days	0.67	Williams	2000 FC ₅₁
2000 FH ₅₁	18.2	0.15	20000317	335.54718	43.36671	187.77473	0.54177	0.2671541	3.1163163	9	1	13 days	0.27	Williams	2000 FH ₅₁
2000 FK ₅₁	15.2	0.15	20000317	159.96209	298.18291	87.85786	0.14364	0.1858766	3.2074036	9	1	13 days	0.14	Williams	2000 FK ₅₁
2000 FM ₅₁	16.0	0.15	20000317	206.37450	292.28395	63.98428	0.14516	0.2660698	3.0102926	9	1	13 days	0.27	Williams	2000 FM ₅₁
2000 FN ₅₁	15.6	0.15	20000317	216.71653	328.28950	19.71373	3.11922	0.2264982	3.1377163	9	1	13 days	0.18	Williams	2000 FN ₅₁
2000 FP ₅₁	15.6	0.15	20000317	94.97165	48.22239	15.96198	11.88708	0.3179355	3.1708509	9	1	13 days	0.15	Williams	2000 FP ₅₁
2000 FR ₅₁	17.9	0.15	20000317	287.88177	251.78744	29.92470	1.65480	0.1747945	2.3502571	13	1	13 days	0.34	Williams	2000 FR ₅₁
2000 FS ₅₁	17.5	0.15	20000317	338.60644	33.63744	185.88108	3.84601	0.1490519	3.0315308	9	1	14 days	0.20	Williams	2000 FS ₅₁
2000 FD ₅₂	16.1	0.15	20000317	175.08569	156.94688	216.75921	0.52897	0.1252376	3.0215982	9	1	14 days	0.21	Williams	2000 FD ₅₂
2000 FG ₅₂	15.4	0.15	20000317	169.31273	339.05979	37.79627	0.31146	0.3146339	3.0300645	9	1	14 days	0.19	Williams	2000 FG ₅₂
2000 FJ ₅₂	17.0	0.15	20000317	316.75530	54.62547	182.51463	0.77881	0.0488111	3.3117227	9	1	14 days	0.25	Williams	2000 FJ ₅₂
2000 FO ₅₂	16.5	0.15	20000317	290.94200	251.75009	28.81839	1.58051	0.1851542	3.1510064	13	1	14 days	0.32	Williams	2000 FO ₅₂
2000 FP ₅₂	17.9	0.15	20000317	323.30995	53.95100	182.85678	2.06796	0.1269171	3.0846667	9	1	14 days	0.27	Williams	2000 FP ₅₂
2000 FR ₅₂	16.7	0.15	20000317	303.60804	82.50609	179.15086	2.76857	0.1357053	3.1202228	9	1	14 days	0.12	Williams	2000 FR ₅₂
2000 FU ₅₂	14.8	0.15	20000317	69.89442	77.32567	28.09853	3.89834	0.1542652	3.9608426	9	1	13 days	0.34	Williams	2000 FU ₅₂
2000 FC ₅₃	16.7	0.15	20000406	330.22189	211.95456	12.43577	4.04900	0.0247742	2.7009396	17	1	13 days	0.62	Williams	2000 FC ₅₃
2000 FK ₅₃	15.4	0.15	20000406	144.16187	28.54866	16.73492	16.35865	0.0798408	3.3575591	15	1	13 days	0.56	Williams	2000 FK ₅₃
2000 FN ₅₃	17.6	0.15	20000317	229.68474	310.67473	17.91781	14.82973	0.0868319	2.6835607	9	1	12 days	0.21	Williams	2000 FN ₅₃
2000 FO ₅₃	18.9	0.15	20000317	326.62771	43.55531	195.86485	16.71986	0.2000821	2.7187192	9	1	12 days	0.20	Williams	2000 FO ₅₃
2000 FQ ₅₃	17.3	0.15	20000317	272.13545	322.67717	315.63586	2.39818	0.2859559	2.4888052	23	1	12 days	0.49	Williams	2000 FQ ₅₃
2000 FR ₅₃	7.4	0.15	20000317	0.00000	26.27661	180.58587	1.22968	0.0000000	43.8107493	4	1	2 days	0.26	E Marsden	2000 FR ₅₃
2000 FS ₅₃	7.9	0.15	20000317	0.00000	180.62898	26.03720	2.11572	0.0000000	42.1299616	6	1	6 days	0.15	E Marsden	2000 FS ₅₃
2000 FT ₅₃	8.4	0.15	20000317	0.00000	178.87207	35.26526	12.63355	0.0000000	41.7422077	4	1	4 days	0.13	E Marsden	2000 FT ₅₃
2000 GA	16.9	0.15	20000317	322.74161	208.13872	22.84706	6.03945	0.0482333	2.9995279	16	1	5 days	0.48	E Williams	2000 GA
2000 GB	16.9	0.15	20000317	292.31744	249.02488	19.06321	4.42902	0.1099011	2.5116914	22	1	5 days	0.60	E Williams	2000 GB
2000 GC	17.7	0.15	20000406	282.90210	283.30459	14.75585	16.73576	0.2396645	2.5410746	17	1	11 days	0.45	Williams	2000 GC
2000 GD	16.9	0.15	20000317	318.64066	88.42775	155.91124	0.91644	0.1753976	2.4214574	44	1	32 days	0.56	Williams	2000 GD
2000 GE	17.3	0.15	20000317	154.50806	8.76982	17.01534	8.98918	0.2446638	2.3055759	9	1	6 days	0.21	E Williams	2000 GE
2000 GF	18.1	0.15	20000317	23.11146	339.77668	176.90366	2.19416	0.1429425	2.4770412	13	1	6 days	0.61	E Williams	2000 GF
2000 GG	15.2	0.15	20000317	171.82968	337.79192	38.48260	2.26111	0.2680760	2.8952496	18	1	5 days	0.59	E Williams	2000 GG
2000 GH	17.7	0.15	20000317	336.33229	188.25124	31.66607	2.95392	0.1507251	2.4311206	26	1	5 days	0.74	E Williams	2000 GH

2000 GL	16.2	0.15	20000317	283.07309	271.23344	33.25907	4.60113	0.2515204	2.4066461	19	1	5 days	0.35	E Williams	2000 GL
2000 GM	16.5	0.15	20000317	20.74214	131.01574	42.01482	2.41364	0.1012716	2.6314532	19	1	4 days	0.53	E Williams	2000 GM
2000 GN	17.2	0.15	20000317	44.60639	87.72849	44.16806	2.38488	0.2112515	2.4481682	17	1	4 days	0.45	E Williams	2000 GN
2000 GP	17.0	0.15	20000317	345.72701	43.35032	166.67663	1.63975	0.2035574	2.9434857	20	1	5 days	0.25	E Williams	2000 GP
2000 GQ	15.8	0.15	20000406	359.28906	27.13810	167.53280	1.75655	0.0436659	2.9246472	37	1	9 days	0.40	Williams	2000 GQ
2000 GR	19.6	0.15	20000317	1.76754	165.42289	19.20969	6.13956	0.1661939	2.4533441	14	1	5 days	0.68	E Williams	2000 GR
2000 GU	16.2	0.15	20000317	126.96508	229.72900	182.95666	3.83262	0.1114867	2.5712315	14	1	5 days	0.54	E Williams	2000 GU
2000 GW	16.3	0.15	20000317	64.59878	289.35957	202.02333	2.39186	0.0307701	2.5113872	20	1	5 days	0.62	E Williams	2000 GW
2000 GX	16.8	0.15	20000317	254.73554	115.16904	198.62076	3.92009	0.0815937	2.3276450	13	1	4 days	0.51	E Williams	2000 GX
2000 GZ	17.3	0.15	20000317	308.06186	69.09574	202.85736	17.49877	0.1908180	2.6170028	12	1	4 days	0.72	E Williams	2000 GZ
2000 GE ₁	15.4	0.15	20000406	320.50184	126.21077	158.30663	24.86701	0.3469732	2.0691545	17	1	7 days	0.82	Williams	2000 GE ₁
2000 GH ₁	13.2	0.15	20000406	44.16522	121.84425	20.74407	16.28951	0.0676115	3.1757379	67	1	16 days	0.47	Williams	2000 GH ₁
2000 GJ ₁	14.5	0.15	20000317	273.17786	240.28577	46.24351	8.24196	0.2008114	2.5310395	11	1	6 days	0.58	E Williams	2000 GJ ₁
2000 GL ₁	14.9	0.15	20000317	173.06830	194.96967	165.21390	6.94118	0.1439333	2.3069240	48	1	43 days	0.44	Williams	2000 GL ₁
2000 GN ₁	14.8	0.15	20000406	244.73039	137.62946	199.07147	14.32909	0.1797313	2.6695174	22	1	3 days	0.56	E Williams	2000 GN ₁
2000 GP ₁	16.0	0.15	20000406	19.26667	146.70849	28.86079	7.19720	0.1569732	2.2492473	29	1	6 days	0.40	E Williams	2000 GP ₁
2000 GQ ₁	15.8	0.15	20000317	269.60154	305.20370	20.53406	3.12289	0.2670893	2.2473673	10	1	2 days	0.38	E Williams	2000 GQ ₁
2000 GR ₁	14.6	0.15	20000317	110.27433	220.83244	218.03102	8.71252	0.2242643	2.7958316	13	1	2 days	0.60	E Williams	2000 GR ₁
2000 GS ₁	14.6	0.15	20000317	302.49213	266.82452	26.94606	5.68159	0.2449722	3.1600832	12	1	2 days	0.69	E Williams	2000 GS ₁
2000 GT ₁	15.2	0.15	20000406	309.72485	181.83729	93.98414	14.10877	0.1191286	2.5683146	11	1	5 days	0.36	Williams	2000 GT ₁
2000 GV ₁	15.9	0.15	20000406	2.79108	353.53337	210.70754	23.79643	0.2075999	2.3024667	31	1	9 days	0.30	Williams	2000 GV ₁
2000 GW ₁	14.0	0.15	20000317	268.09460	107.29867	183.35228	18.59008	0.2236715	2.1869813	16	1	2 days	0.32	E Williams	2000 GW ₁
2000 GX ₁	16.5	0.15	20000406	51.95950	124.23524	5.99890	22.32230	0.0786332	2.0489943	19	1	4 days	0.60	E Williams	2000 GX ₁
2000 GY ₁	14.3	0.15	20000406	275.98286	106.36222	200.75929	7.87993	0.2385115	2.3646194	42	1	8 days	0.71	Williams	2000 GY ₁
2000 GA ₂	19.1	0.15	20000406	12.93683	107.77661	51.81547	1.71281	0.4385254	2.3906757	76	1	8 days	0.78	Williams	2000 GA ₂
2000 GB ₂	19.0	0.15	20000406	40.79276	254.64898	187.73917	7.04156	0.5908552	2.4462678	22	1	11 days	0.42	Williams	2000 GB ₂
2000 GC ₂	16.9	0.15	20000406	277.91819	280.31780	358.73970	55.30337	0.1870786	1.3834636	46	1	15 days	0.68	Williams	2000 GC ₂
2000 GD ₂	19.5	0.15	20000317	121.28044	17.68446	357.80556	34.02935	0.4829819	0.7608739	35	1	4 days	0.83	Marsden	2000 GD ₂
2000 GE ₂	20.2	0.15	20000226	308.85146	297.20311	352.10266	2.21520	0.5567098	1.5965729	118	1	18 days	0.59	M-v 7 Williams	2000 GE ₂
2000 GF ₂	20.1	0.15	20000406	316.89433	107.78504	176.29947	9.68287	0.3803595	1.3467723	59	1	12 days	0.93	Williams	2000 GF ₂
2000 GG ₂	15.9	0.15	20000406	255.96490	137.36480	196.45223	50.95396	0.1321086	1.5757454	35	1	5 days	0.49	Williams	2000 GG ₂
2000 GM ₂	13.0	0.15	20000406	36.31706	85.10373	77.21945	10.83826	0.0437320	3.0222752	27	1	9 days	0.59	Williams	2000 GM ₂
2000 GP ₂	15.7	0.15	20000317	298.15720	81.67696	172.28876	11.61236	0.1538781	2.6105701	32	1	41 days	0.58	Williams	2000 GP ₂
2000 GR ₂	10.9	0.15	20000406	4.90654	349.02564	146.11593	14.73288	0.2040748	2.9285602	13	1	7 days	0.44	Williams	2000 GR ₂
2000 GS ₂	14.9	0.15	20000317	313.18298	224.47520	25.25244	8.32987	0.1522288	3.0978335	30	1	3 days	0.73	E Williams	2000 GS ₂
2000 GT ₂	14.2	0.15	20000317	74.61436	330.71259	121.89816	7.46637	0.0729060	2.3984869	42	1	39 days	0.53	Williams	2000 GT ₂
2000 GU ₂	13.5	0.15	20000406	174.08627	267.32224	97.64279	6.96627	0.0789816	2.4507794	24	1	5 days	0.65	E Williams	2000 GU ₂
2000 GV ₂	14.4	0.15	20000226	258.13325	217.27996	77.47952	7.04289	0.2152848	2.2025595	49	1	68 days	0.52	M-v 5 Williams	2000 GV ₂
2000 GE ₃	16.9	0.15	20000406	334.50484	209.16681	18.89253	16.25374	0.1279895	2.5916508	19	1	7 days	0.33	Williams	2000 GE ₃
2000 GF ₃	17.9	0.15	20000406	279.70116	278.85939	22.43676	5.06898	0.2116229	2.0892278	20	1	6 days	0.61	E Williams	2000 GF ₃
2000 GG ₃	13.6	0.15	20000406	271.34799	308.16098	17.13814	40.81465	0.3646635	2.7746306	28	1	5 days	0.39	E Williams	2000 GG ₃
2000 GH ₃	16.6	0.15	20000406	334.30533	36.82958	195.96009	13.49345	0.1550878	2.3728582	22	1	5 days	0.43	E Williams	2000 GH ₃
2000 GJ ₃	14.2	0.15	20000406	144.63791	26.06490	16.35782	24.59477	0.2188469	2.3292897	34	1	8 days	0.50	Williams	2000 GJ ₃
2000 GL ₃	15.5	0.15	20000317	42.81662	254.92695	202.37176	25.66175	0.4734349	2.6644462	26	1	6 days	0.41	Williams	2000 GL ₃
2000 GM ₃	15.8	0.15	20000406	318.23464	78.77568	197.42678	29.85183	0.3426813	2.7165947	21	1	7 days	0.29	Williams	2000 GM ₃
2000 GO ₃	18.4	0.15	20000406	55.50479	294.54249	204.27570	24.65605	0.0918438	1.8607198	20	1	3 days	0.40	E Williams	2000 GO ₃
2000 GP ₃	17.5	0.15	20000406	50.73814	281.03954	200.67815	13.19714	0.2865263	1.9866673	18	1	2 days	0.45	E Williams	2000 GP ₃
2000 GQ ₃	16.4	0.15	20000406	289.72167	278.16652	29.83314	26.96050	0.2600404	2.0583674	13	1	2 days	0.85	E Williams	2000 GQ ₃
2000 GR ₃	15.2	0.15	20000406	69.79934	253.41759	208.73905	18.81055	0.3170045	2.2655474	23	1	3 days	0.53	Williams	2000 GR ₃
2000 GV ₃	14.6	0.15	20000406	258.02523	250.72304	73.11352	3.13508	0.2062267	2.3896570	38	1	17 days	0.42	Williams	2000 GV ₃
2000 GW ₃	15.9	0.15	20000317	303.85276	166.99110	98.25287	2.12353	0.1473120	2.3201912	46	1	32 days	0.55	Williams	2000 GW ₃
2000 GC ₄	15.0	0.15	20000406	346.56699	245.62825	342.23650	1.46685	0.1670220	2.3910411	21	1	6 days	0.68	E Williams	2000 GC ₄
2000 GD ₄	12.7	0.15	20000406	288.58583	114.04042	181.89279	1.49410	0.1825047	3.1927076	18	1	2 days	0.40	E Williams	2000 GD ₄

2000 GE ₄	15.0	0.15	20000406	269.22260	219.42054	100.42813	7.69410	0.1996267	2.2080515	44	1	11 days	0.55	Marsden	2000 GE ₄
2000 GJ ₄	16.2	0.15	20000406	15.92492	130.22636	49.76419	22.84728	0.0602452	1.9813400	14	1	11 days	0.61	Williams	2000 GJ ₄
2000 GL ₄	16.5	0.15	20000406	345.47331	29.37956	189.66188	22.74553	0.2045733	2.2977848	24	1	11 days	0.56	Williams	2000 GL ₄
2000 GN ₄	13.8	0.15	20000406	317.80589	219.38444	35.73293	15.58795	0.1367201	2.4432441	20	1	7 days	0.38	Williams	2000 GN ₄
2000 GO ₄	14.5	0.15	20000406	34.64165	106.46262	37.99959	25.56810	0.2579505	3.1515616	14	1	5 days	0.46	E Williams	2000 GO ₄
2000 GP ₄	16.9	0.15	20000406	325.63904	206.64019	33.40197	21.16146	0.0609791	1.9007476	14	1	5 days	0.69	E Williams	2000 GP ₄
2000 GQ ₄	15.4	0.15	20000406	227.80213	275.16050	59.87634	24.82512	0.0474341	1.9503250	12	1	4 days	0.53	Williams	2000 GQ ₄
2000 GR ₄	15.1	0.15	20000406	24.67608	137.71748	11.76403	26.55374	0.1955689	2.5186767	19	1	5 days	0.38	E Williams	2000 GR ₄
2000 GS ₄	15.6	0.15	20000406	308.48582	217.48731	36.78934	22.76408	0.0542129	1.9832652	20	1	8 days	0.81	Williams	2000 GS ₄
2000 GT ₄	15.8	0.15	20000406	256.86214	263.23161	50.20133	22.47292	0.0701901	1.9696928	14	1	8 days	0.63	Williams	2000 GT ₄
2000 GU ₄	15.2	0.15	20000406	0.99545	20.90942	183.65184	25.43311	0.2394106	2.3521340	22	1	9 days	0.56	Williams	2000 GU ₄
2000 GV ₄	18.1	0.15	20000317	247.11489	109.59050	201.13877	20.63329	0.0649592	1.8909606	21	1	16 days	0.42	Williams	2000 GV ₄
2000 GW ₄	16.9	0.15	20000406	310.09476	246.33643	14.91639	6.44215	0.1666761	2.2147764	36	1	10 days	0.48	Williams	2000 GW ₄
2000 GX ₄	14.7	0.15	20000406	62.24278	136.20293	345.04415	3.86510	0.1461366	2.4342786	21	1	8 days	0.35	Williams	2000 GX ₄
2000 GZ ₄	15.9	0.15	20000406	25.96966	125.93743	26.97117	4.17090	0.0586069	2.1714531	20	1	8 days	0.45	Williams	2000 GZ ₄
2000 GB ₅	14.7	0.15	20000406	334.46750	181.94641	25.25261	6.34314	0.0724617	2.2472718	20	1	5 days	0.46	E Williams	2000 GB ₅
2000 GC ₅	15.1	0.15	20000317	270.87109	44.95114	247.25987	4.61317	0.1271430	2.1899959	35	1	14 days	0.50	Williams	2000 GC ₅
2000 GH ₅	14.2	0.15	20000406	44.39209	166.74071	338.99450	5.81661	0.0537311	2.3776996	33	1	7 days	0.38	Williams	2000 GH ₅
2000 GJ ₅	14.6	0.15	20000317	26.85300	161.53083	346.01227	8.83374	0.2219923	3.0849098	33	1	12 days	0.47	Williams	2000 GJ ₅
2000 GK ₅	15.0	0.15	20000406	333.13435	332.70932	258.63459	3.54864	0.1579611	2.2102586	21	1	4 days	0.72	E Williams	2000 GK ₅
2000 GT ₅	13.0	0.15	20000406	38.09741	317.15245	199.31484	5.40533	0.0858884	3.1797379	30	1	9 days	0.43	Williams	2000 GT ₅
2000 GU ₅	13.8	0.15	20000406	294.35407	92.95717	206.34889	4.36937	0.2834542	2.8353280	28	1	6 days	0.70	E Williams	2000 GU ₅
2000 GV ₅	13.0	0.15	20000317	335.73970	8.99372	194.27662	8.95472	0.0069931	3.1991707	21	1	13 days	0.34	Williams	2000 GV ₅
2000 GY ₅	15.3	0.15	20000406	343.04377	15.40642	191.36803	9.32503	0.0996380	2.6965775	14	1	3 days	0.64	E Williams	2000 GY ₅
2000 GZ ₅	16.6	0.15	20000406	305.63768	61.89578	198.54761	1.20213	0.1977639	2.8768882	14	1	6 days	0.64	E Williams	2000 GZ ₅
2000 GC ₆	13.9	0.15	20000406	100.25824	76.64158	349.04789	1.98095	0.2039055	2.9201907	23	1	4 days	0.62	E Williams	2000 GC ₆
2000 GE ₆	14.5	0.15	20000406	107.53689	41.88519	24.39548	7.08372	0.1229385	2.8717803	21	1	6 days	0.61	E Williams	2000 GE ₆
2000 GF ₆	14.5	0.15	20000406	354.90640	177.29256	15.09281	8.24144	0.0218420	3.1805642	13	1	3 days	0.46	E Williams	2000 GF ₆
2000 GG ₆	13.2	0.15	20000406	202.20935	162.18530	192.05174	12.69163	0.2310479	2.6335041	29	1	6 days	0.47	E Williams	2000 GG ₆
2000 GH ₆	15.4	0.15	20000406	319.62549	61.30216	183.06386	7.84987	0.1565855	2.3233712	35	1	6 days	0.40	E Williams	2000 GH ₆
2000 GJ ₆	17.1	0.15	20000406	337.35772	156.08887	67.97871	0.82032	0.1717373	2.2317319	18	1	3 days	0.62	E Williams	2000 GJ ₆
2000 GK ₆	14.8	0.15	20000406	281.26921	108.53883	189.22282	16.21896	0.2310895	2.7080261	35	1	8 days	0.50	Williams	2000 GK ₆
2000 GM ₆	16.3	0.15	20000406	65.43508	274.88314	182.22395	5.35434	0.2690467	2.6117060	29	1	5 days	0.70	E Williams	2000 GM ₆
2000 GN ₆	17.5	0.15	20000317	341.92856	197.15166	16.09893	14.25063	0.1768982	2.6478841	16	1	4 days	0.83	E Williams	2000 GN ₆
2000 GO ₆	17.6	0.15	20000317	321.96291	92.01028	149.01273	0.97352	0.1917466	2.2852464	26	1	4 days	0.63	E Williams	2000 GO ₆
2000 GP ₆	15.2	0.15	20000406	310.49000	239.34399	17.30865	12.96354	0.1377715	2.7166297	31	1	6 days	0.36	E Williams	2000 GP ₆
2000 GR ₆	15.2	0.15	20000317	84.77871	262.89750	178.20482	6.08745	0.2000704	2.5445374	21	1	4 days	0.54	E Williams	2000 GR ₆
2000 GT ₆	14.3	0.15	20000406	200.32679	334.80635	21.49562	14.82975	0.0845261	3.0539261	17	1	3 days	0.56	E Williams	2000 GT ₆
2000 GB ₇	16.1	0.15	20000317	34.00455	307.18899	188.74972	14.81793	0.2123377	2.7537930	24	1	4 days	0.58	E Williams	2000 GB ₇
2000 GC ₇	16.1	0.15	20000406	274.58205	264.94871	32.05134	2.96668	0.1639323	2.3897477	18	1	8 days	0.48	Williams	2000 GC ₇
2000 GD ₇	16.1	0.15	20000317	275.99440	213.98707	70.27562	1.04191	0.0971968	2.5972749	17	1	2 days	0.43	E Williams	2000 GD ₇
2000 GF ₇	16.9	0.15	20000317	341.25550	184.45571	35.81744	3.81908	0.2751478	2.8728703	17	1	2 days	0.63	E Williams	2000 GF ₇
2000 GG ₇	16.0	0.15	20000406	255.02315	270.94192	46.68311	3.63022	0.1824023	2.2874995	22	1	6 days	0.77	E Williams	2000 GG ₇
2000 GJ ₇	17.1	0.15	20000406	68.52687	108.77528	354.23651	6.96041	0.1049019	2.7636009	11	1	6 days	0.32	E Williams	2000 GJ ₇
2000 GL ₇	14.2	0.15	20000406	160.87531	195.11577	186.47856	5.59923	0.2619148	2.3403854	16	1	6 days	0.73	E Williams	2000 GL ₇
2000 GM ₇	16.5	0.15	20000406	288.24713	107.07935	183.93538	4.27075	0.2280698	2.3611820	26	1	10 days	0.62	Williams	2000 GM ₇
2000 GN ₇	14.7	0.15	20000406	49.76729	334.09976	158.78179	13.21365	0.2118529	2.6499320	21	1	9 days	0.55	Williams	2000 GN ₇
2000 GO ₇	14.6	0.15	20000406	320.04205	138.22869	116.66933	7.28955	0.1055805	2.4411831	23	1	9 days	0.37	Williams	2000 GO ₇
2000 GQ ₇	16.7	0.15	20000406	278.97380	114.84950	199.98171	3.98139	0.2702150	2.0052597	44	1	5 days	0.56	E Williams	2000 GQ ₇
2000 GT ₇	14.9	0.15	20000406	315.78244	124.78319	147.57491	10.39523	0.2390270	2.3165103	21	1	9 days	0.50	Williams	2000 GT ₇
2000 GV ₇	14.3	0.15	20000406	285.06542	221.84146	91.21298	8.76101	0.2550259	2.5834881	23	1	5 days	0.58	E Williams	2000 GV ₇
2000 GW ₇	14.4	0.15	20000406	126.30282	343.59169	80.08808	10.68551	0.2424931	2.2682903	23	1	9 days	0.56	Williams	2000 GW ₇
2000 GZ ₇	14.5	0.15	20000406	307.88452	140.79322	132.04678	7.52327	0.1363109	2.3455608	29	1	5 days	0.60	E Williams	2000 GZ ₇

2000 GE ₈	13.0	0.15	20000406	281.71098	78.27043	190.13708	9.29495	0.1105484	3.0209029	27	1	4 days	0.88	E Williams	2000 GE ₈
2000 GO ₈	15.7	0.15	20000406	318.91596	270.97400	343.24910	5.30450	0.3124311	3.2577656	16	1	8 days	0.35	Williams	2000 GO ₈
2000 GQ ₈	16.5	0.15	20000406	89.22493	96.59084	353.76373	2.19240	0.0209934	2.4410113	14	1	9 days	0.42	Williams	2000 GQ ₈
2000 GU ₈	15.4	0.15	20000406	62.04874	70.82200	32.03206	1.37034	0.1453577	2.7523232	20	1	5 days	0.44	E Williams	2000 GU ₈
2000 GA ₉	14.3	0.15	20000406	51.34251	341.86254	120.30646	1.72322	0.2561643	3.0575609	12	1	5 days	0.47	E Williams	2000 GA ₉
2000 GC ₉	16.6	0.15	20000317	295.82922	271.06036	350.61196	2.16256	0.1775762	2.7552038	16	1	5 days	0.51	E Williams	2000 GC ₉
2000 GD ₉	17.5	0.15	20000406	47.12771	124.12661	359.75109	5.59772	0.1474527	2.2569899	15	1	8 days	0.68	Williams	2000 GD ₉
2000 GN ₉	16.3	0.15	20000406	86.75322	189.13901	241.55814	1.54417	0.2099652	2.4457979	11	1	2 days	0.41	E Williams	2000 GN ₉
2000 GO ₉	16.8	0.15	20000406	316.99132	37.50388	203.77048	4.18569	0.1584894	2.3949352	17	1	8 days	0.70	Williams	2000 GO ₉
2000 GP ₉	13.7	0.15	20000406	228.98711	146.26136	174.26557	12.39138	0.1293345	2.7238260	15	1	6 days	0.65	E Williams	2000 GP ₉
2000 GQ ₉	16.2	0.15	20000317	319.83046	201.70016	30.65879	2.58552	0.1712514	2.3257282	15	1	30 days	0.44	Williams	2000 GQ ₉
2000 GT ₉	16.4	0.15	20000317	266.97891	35.45938	240.63820	1.00150	0.0485892	2.9601638	13	1	5 days	0.54	E Williams	2000 GT ₉
2000 GV ₉	15.9	0.15	20000406	219.18649	137.97329	197.66434	5.21353	0.1982401	2.2737247	14	1	8 days	0.46	Williams	2000 GV ₉
2000 GW ₉	16.2	0.15	20000406	90.84133	84.80921	355.60732	5.59516	0.1108817	2.5291820	10	1	5 days	0.31	E Williams	2000 GW ₉
2000 GX ₉	14.9	0.15	20000406	83.54387	117.31241	311.02885	0.89554	0.2701529	2.9935947	10	1	8 days	0.42	Williams	2000 GX ₉
2000 GD ₁₀	15.6	0.15	20000406	350.59995	67.95204	128.55488	1.70593	0.1312524	2.4669859	17	1	5 days	0.40	E Williams	2000 GD ₁₀
2000 GK ₁₀	15.4	0.15	20000406	166.56322	349.91365	24.83614	4.60058	0.0523213	2.7521165	14	1	5 days	0.46	E Williams	2000 GK ₁₀
2000 GP ₁₀	17.5	0.15	20000406	23.98908	156.19762	0.47388	1.47870	0.1085226	2.2822891	14	1	8 days	0.45	Williams	2000 GP ₁₀
2000 GT ₁₀	14.2	0.15	20000406	180.69026	119.25550	245.67434	1.65730	0.0821816	2.4252902	37	1	3 days	0.51	E Williams	2000 GT ₁₀
2000 GW ₁₀	16.6	0.15	20000406	304.42289	294.99083	338.33845	2.75832	0.2690116	2.2900796	22	1	3 days	0.50	E Williams	2000 GW ₁₀
2000 GR ₁₁	15.8	0.15	20000406	69.21636	73.41670	10.83050	4.32135	0.2870872	2.5892763	12	1	2 days	0.41	E Williams	2000 GR ₁₁
2000 GS ₁₁	14.4	0.15	20000406	239.62317	309.24749	7.35508	26.07481	0.1118365	2.5993704	18	1	5 days	0.47	E Williams	2000 GS ₁₁
2000 GU ₁₁	16.8	0.15	20000406	334.47958	37.99915	189.24955	8.91882	0.2157964	2.5884158	13	1	2 days	0.47	E Williams	2000 GU ₁₁
2000 GY ₁₁	12.4	0.15	20000317	129.09632	52.68082	351.58691	12.85765	0.2480763	2.9447536	21	1	4 days	0.52	E Williams	2000 GY ₁₁
2000 GD ₁₂	15.3	0.15	20000406	300.71744	54.27455	201.03203	5.98949	0.0778105	2.5272124	14	1	2 days	0.24	E Williams	2000 GD ₁₂
2000 GM ₁₂	13.6	0.15	20000406	315.35979	58.22705	189.88006	15.84470	0.1648312	3.0596542	29	1	6 days	0.45	E Williams	2000 GM ₁₂
2000 GN ₁₂	14.3	0.15	20000406	303.11144	56.12601	198.31581	1.30460	0.0935372	2.9265348	15	1	6 days	0.81	E Williams	2000 GN ₁₂
2000 GS ₁₂	15.0	0.15	20000406	83.04844	60.10276	18.36909	9.54956	0.2166518	2.8152181	12	1	2 days	0.52	E Williams	2000 GS ₁₂
2000 GZ ₁₂	13.3	0.15	20000406	243.05018	271.86206	40.36768	0.98242	0.0838479	3.1696220	13	1	5 days	0.44	E Williams	2000 GZ ₁₂
2000 GC ₁₃	15.5	0.15	20000406	347.40920	193.23960	13.68591	12.26685	0.1540516	2.5571814	12	1	2 days	0.35	E Williams	2000 GC ₁₃
2000 GM ₁₃	14.3	0.15	20000406	253.65615	303.70525	1.87571	11.32759	0.1006709	3.1993896	13	1	2 days	0.52	E Williams	2000 GM ₁₃
2000 GA ₁₄	15.1	0.15	20000406	266.17221	284.78486	20.25675	4.08571	0.1952248	2.4074971	13	1	2 days	0.37	E Williams	2000 GA ₁₄
2000 GC ₁₄	15.7	0.15	20000406	343.60687	191.52417	20.21171	6.93775	0.1364721	2.6432619	26	1	5 days	0.69	E Williams	2000 GC ₁₄
2000 GH ₁₄	17.8	0.15	20000317	316.41437	212.67963	39.63927	3.13193	0.2597660	2.1929440	16	1	14 days	0.53	Williams	2000 GH ₁₄
2000 GM ₁₄	14.9	0.15	20000406	280.29566	270.71357	18.68780	9.66250	0.1698405	2.8582380	13	1	2 days	0.44	E Williams	2000 GM ₁₄
2000 GZ ₁₄	18.2	0.15	20000406	335.21848	229.56184	6.01803	4.52203	0.2650733	2.1179056	12	1	2 days	0.68	E Williams	2000 GZ ₁₄
2000 GB ₁₅	15.9	0.15	20000406	76.21629	278.62557	167.39168	4.00027	0.2054300	2.4663830	12	1	2 days	0.61	E Williams	2000 GB ₁₅
2000 GF ₁₅	17.9	0.15	20000406	310.20532	234.91196	40.12973	4.54298	0.2899590	2.2986257	19	1	3 days	0.65	E Williams	2000 GF ₁₅
2000 GN ₁₅	15.4	0.15	20000406	325.15596	38.75098	201.13824	9.40742	0.1738823	2.6439133	21	1	3 days	0.64	E Williams	2000 GN ₁₅
2000 GP ₁₅	15.2	0.15	20000317	326.04702	30.79164	198.07017	11.77449	0.1281486	2.6102153	35	1	14 days	0.43	Williams	2000 GP ₁₅
2000 GR ₁₅	15.5	0.15	20000406	37.30494	285.35870	210.70012	4.31685	0.2172977	2.3621657	28	1	5 days	0.34	E Williams	2000 GR ₁₅
2000 GZ ₁₅	16.4	0.15	20000317	324.07540	222.26163	8.00864	8.73870	0.1019927	2.5708883	12	1	3 days	0.47	E Williams	2000 GZ ₁₅
2000 GA ₁₆	16.6	0.15	20000406	304.38546	251.53594	14.37153	4.08781	0.1736544	2.2175631	21	1	5 days	0.48	E Williams	2000 GA ₁₆
2000 GV ₁₆	15.9	0.15	20000317	330.39654	14.45315	213.04129	1.11817	0.1603239	2.6367889	25	1	4 days	0.45	E Williams	2000 GV ₁₆
2000 GC ₁₇	14.6	0.15	20000406	45.29490	126.36976	16.06929	10.66316	0.0490974	2.9966308	27	1	8 days	0.90	Williams	2000 GC ₁₇
2000 GE ₁₇	16.7	0.15	20000406	304.23974	91.74833	168.88802	2.01512	0.1201048	2.5879885	20	1	8 days	0.91	Williams	2000 GE ₁₇
2000 GN ₁₇	15.9	0.15	20000406	61.94273	325.64152	145.45407	2.02898	0.1726694	2.4926064	16	1	5 days	0.65	E Williams	2000 GN ₁₇
2000 GP ₁₇	15.5	0.15	20000406	63.79169	98.80705	23.96615	7.24638	0.0533251	2.3594290	28	1	6 days	0.56	E Williams	2000 GP ₁₇
2000 GS ₁₇	15.8	0.15	20000406	288.25863	221.65195	55.18425	2.37288	0.1190765	2.3482213	14	1	5 days	0.35	E Williams	2000 GS ₁₇
2000 GX ₁₇	17.4	0.15	20000406	36.86000	114.75307	26.24048	4.23212	0.1821575	2.5462076	17	1	7 days	0.44	E Williams	2000 GX ₁₇
2000 GY ₁₇	14.8	0.15	20000406	317.21369	56.92171	178.95430	6.96937	0.0098515	3.1364528	13	1	2 days	0.51	E Williams	2000 GY ₁₇
2000 GA ₁₈	17.1	0.15	20000406	355.89521	172.17312	26.22067	4.74542	0.1020866	2.3845514	19	1	7 days	0.58	E Williams	2000 GA ₁₈
2000 GD ₁₈	17.3	0.15	20000406	335.21586	198.61273	32.99858	2.71744	0.2201063	2.7910000	12	1	7 days	0.56	E Williams	2000 GD ₁₈

2000 APR. 18

M.P.C. 40511

2000 GG ₁₈	16.7	0.15	20000406	307.31517	110.07681	157.36587	1.63240	0.2103858	3.1455284	14	1	3 days	0.49	E Williams	2000 GG ₁₈
2000 GH ₁₈	15.7	0.15	20000406	248.89992	296.73993	19.18525	6.32349	0.1211376	2.6754806	15	1	9 days	0.38	Williams	2000 GH ₁₈
2000 GJ ₁₈	17.9	0.15	20000406	357.21939	171.93993	25.55521	3.36498	0.1382521	2.2452597	11	1	3 days	0.48	E Williams	2000 GJ ₁₈
2000 GL ₁₈	15.7	0.15	20000317	224.40656	138.04006	195.87976	13.05002	0.1424010	2.3547797	20	1	4 days	0.50	E Williams	2000 GL ₁₈
2000 GV ₁₈	15.2	0.15	20000406	179.18434	5.06588	8.21854	15.22936	0.1765417	3.1464471	16	1	5 days	0.61	E Williams	2000 GV ₁₈
2000 GX ₁₈	15.1	0.15	20000406	248.97564	107.34164	210.58090	2.30741	0.1423583	2.8663857	24	1	6 days	0.52	E Williams	2000 GX ₁₈
2000 GC ₁₉	16.2	0.15	20000406	322.25763	35.70884	209.90682	3.34259	0.1701997	2.3461048	19	1	5 days	0.39	E Williams	2000 GC ₁₉
2000 GF ₁₉	16.0	0.15	20000406	277.28769	279.76954	4.89474	8.11973	0.0771013	3.1546177	12	1	5 days	0.44	E Williams	2000 GF ₁₉
2000 GG ₁₉	15.7	0.15	20000406	278.21068	72.48321	215.55430	4.02136	0.1076085	2.2315791	29	1	3 days	0.56	E Williams	2000 GG ₁₉
2000 GH ₁₉	16.7	0.15	20000406	58.98707	277.09416	215.16752	3.36555	0.0219211	2.7673501	10	1	5 days	0.47	E Williams	2000 GH ₁₉
2000 GN ₁₉	15.2	0.15	20000406	273.28824	313.73509	350.11622	3.09031	0.2032491	2.2553591	38	1	5 days	0.68	E Williams	2000 GN ₁₉
2000 GO ₁₉	14.8	0.15	20000317	21.33695	311.32745	207.76281	6.21650	0.1665207	3.0526558	30	1	6 days	0.57	E Williams	2000 GO ₁₉
2000 GP ₁₉	16.9	0.15	20000406	53.44938	241.99896	245.51103	0.98477	0.1270929	2.5842429	14	1	6 days	0.60	E Williams	2000 GP ₁₉
2000 GQ ₁₉	14.1	0.15	20000406	200.11658	162.20351	195.15511	10.23698	0.1338230	3.1429282	33	1	10 days	0.46	Williams	2000 GQ ₁₉
2000 GR ₁₉	13.4	0.15	20000317	158.61699	138.97859	245.15608	0.67019	0.2654746	3.6957431	21	1	13 days	0.43	Williams	2000 GR ₁₉
2000 GS ₁₉	15.8	0.15	20000406	82.26597	261.53667	194.72751	19.66215	0.1305634	2.7778953	15	1	7 days	0.73	Williams	2000 GS ₁₉
2000 GT ₁₉	15.2	0.15	20000406	124.13745	67.27499	358.16600	1.31841	0.0409522	3.0956794	20	1	6 days	0.48	E Williams	2000 GT ₁₉
2000 GU ₁₉	15.1	0.15	20000406	209.96778	151.05672	194.64176	13.04171	0.0443991	3.2248226	14	1	7 days	0.34	Williams	2000 GU ₁₉
2000 GW ₁₉	18.4	0.15	20000406	7.78299	344.51195	198.83844	4.46569	0.1644912	2.4057089	12	1	6 days	0.40	E Williams	2000 GW ₁₉
2000 GX ₁₉	17.0	0.15	20000406	33.46047	152.10262	4.72997	2.85998	0.0563041	2.6479496	14	1	6 days	0.46	E Williams	2000 GX ₁₉
2000 GY ₁₉	17.6	0.15	20000406	336.45878	217.26563	11.60915	1.66714	0.1897932	2.4681175	15	1	6 days	0.52	E Williams	2000 GY ₁₉
2000 GA ₂₀	15.9	0.15	20000406	331.72605	15.34504	209.72007	1.33459	0.0486239	2.8894517	20	1	6 days	0.40	E Williams	2000 GA ₂₀
2000 GB ₂₀	17.4	0.15	20000406	325.70314	260.00501	341.06525	0.60923	0.1606769	2.4764065	20	1	3 days	0.46	E Williams	2000 GB ₂₀
2000 GC ₂₀	15.8	0.15	20000317	128.86991	91.40869	323.43744	0.18871	0.0695492	2.5294072	18	1	13 days	0.43	Williams	2000 GC ₂₀
2000 GD ₂₀	17.3	0.15	20000406	318.25063	253.93871	5.89061	3.05557	0.2460179	2.5813687	23	1	5 days	0.59	E Williams	2000 GD ₂₀
2000 GE ₂₀	18.3	0.15	20000406	340.19526	315.66643	267.12292	0.41910	0.1676724	2.2711915	18	1	5 days	0.67	E Williams	2000 GE ₂₀
2000 GK ₂₀	14.2	0.15	20000406	73.02595	75.14581	14.54480	11.23143	0.2626358	3.0447491	48	1	8 days	0.57	Williams	2000 GK ₂₀
2000 GL ₂₀	16.6	0.15	20000406	299.34290	91.15247	190.12068	7.43704	0.2408958	2.7715155	12	1	2 days	0.43	E Williams	2000 GL ₂₀
2000 GM ₂₀	16.7	0.15	20000406	15.57464	159.10805	16.02610	6.06159	0.0922624	2.6965624	18	1	7 days	0.67	E Williams	2000 GM ₂₀
2000 GN ₂₀	16.1	0.15	20000406	24.78936	150.65013	15.34075	7.58524	0.0636127	2.4342847	37	1	13 days	0.43	Williams	2000 GN ₂₀
2000 GP ₂₀	16.9	0.15	20000317	75.99672	105.79590	357.12131	4.09887	0.0829855	2.1840532	13	1	3 days	0.75	E Williams	2000 GP ₂₀
2000 GT ₂₀	16.4	0.15	20000406	74.75959	134.21202	324.85557	1.25250	0.1752941	2.9033857	16	1	5 days	0.53	E Williams	2000 GT ₂₀
2000 GA ₂₁	15.5	0.15	20000406	209.18186	152.56686	199.70336	9.64194	0.1485441	2.3212558	28	1	8 days	0.49	Williams	2000 GA ₂₁
2000 GB ₂₁	15.4	0.15	20000406	290.37305	260.16215	10.54252	11.00013	0.0592936	2.5036592	21	1	3 days	0.52	E Williams	2000 GB ₂₁
2000 GC ₂₁	14.9	0.15	20000317	264.33575	65.96855	229.03260	2.07998	0.0798878	2.7931308	33	1	12 days	0.49	Williams	2000 GC ₂₁
2000 GD ₂₁	15.9	0.15	20000317	344.27863	359.02557	214.70352	3.04487	0.2192869	3.0229699	13	1	3 days	0.50	E Williams	2000 GD ₂₁
2000 GH ₂₁	15.5	0.15	20000406	67.24396	279.68576	198.84953	7.61089	0.0780422	3.0948718	23	1	6 days	0.71	E Williams	2000 GH ₂₁
2000 GM ₂₁	16.0	0.15	20000317	285.25001	260.05883	14.11046	7.63822	0.0773176	3.2034398	18	1	13 days	0.67	Williams	2000 GM ₂₁
2000 GN ₂₁	17.1	0.15	20000406	238.42999	131.73448	188.99152	2.92294	0.0486736	2.4220490	22	1	7 days	0.57	E Williams	2000 GN ₂₁
2000 GO ₂₁	15.6	0.15	20000406	92.59028	178.66609	279.64785	0.29790	0.0341734	3.1552904	23	1	5 days	0.53	E Williams	2000 GO ₂₁
2000 GP ₂₁	15.4	0.15	20000317	82.29769	263.22673	185.68206	1.86898	0.1735788	3.0870587	25	1	13 days	0.56	Williams	2000 GP ₂₁
2000 GQ ₂₁	15.9	0.15	20000406	276.53436	279.42898	16.48393	10.03019	0.1555280	3.1080770	17	1	6 days	0.91	E Williams	2000 GQ ₂₁
2000 GR ₂₁	17.4	0.15	20000317	46.22630	292.86682	195.09015	1.56122	0.1564975	2.4328528	24	1	15 days	0.43	Williams	2000 GR ₂₁
2000 GS ₂₁	15.9	0.15	20000406	75.01153	263.58550	204.13899	1.18069	0.1081184	2.7688377	22	1	9 days	0.79	Williams	2000 GS ₂₁
2000 GT ₂₁	16.4	0.15	20000317	30.68377	126.15183	22.12332	1.66886	0.1451416	2.5328632	34	1	13 days	0.45	Williams	2000 GT ₂₁
2000 GU ₂₁	16.1	0.15	20000317	4.17437	168.90377	17.02842	1.69471	0.0601689	2.8701517	26	1	15 days	0.56	Williams	2000 GU ₂₁
2000 GW ₂₁	17.5	0.15	20000406	155.85444	9.27168	24.78121	5.31308	0.0898928	2.2680638	12	1	3 days	0.45	E Williams	2000 GW ₂₁
2000 GX ₂₁	15.9	0.15	20000317	239.90846	143.77857	171.22411	3.64336	0.0632208	2.4123649	22	1	4 days	0.62	E Williams	2000 GX ₂₁
2000 GC ₂₂	13.9	0.15	20000406	249.82032	186.70216	139.32075	1.99503	0.2298558	3.0990809	18	1	2 days	0.54	E Williams	2000 GC ₂₂
2000 GM ₂₂	15.0	0.15	20000406	94.38888	292.64775	146.02609	2.53292	0.1878840	2.4390655	9	1	5 days	0.53	E Williams	2000 GM ₂₂
2000 GW ₂₂	13.9	0.15	20000406	131.49876	226.74639	184.96967	11.25410	0.1549250	3.0602035	19	1	8 days	0.63	Williams	2000 GW ₂₂
2000 GX ₂₂	15.9	0.15	20000406	288.69314	86.86996	186.96093	11.73476	0.0669384	3.2061641	20	1	9 days	0.80	Williams	2000 GX ₂₂
2000 GD ₂₃	18.8	0.15	20000406	314.45459	224.74193	33.65909	1.62962	0.1823793	2.2227926	14	1	7 days	0.58	Williams	2000 GD ₂₃

2000 GE ₂₃	15.0	0.15	20000406	195.74420	177.38857	186.58671	4.63687	0.1771687	2.6398818	24	1	10 days	0.42	Williams	2000 GE ₂₃
2000 GF ₂₃	15.5	0.15	20000317	338.11668	172.14696	45.06787	1.66760	0.0953530	3.0359208	23	1	14 days	0.41	Williams	2000 GF ₂₃
2000 GH ₂₃	17.0	0.15	20000406	18.17074	149.01656	23.14231	8.00025	0.1176980	2.6710115	12	1	7 days	0.39	E Williams	2000 GH ₂₃
2000 GJ ₂₃	15.3	0.15	20000317	85.27690	79.66389	21.58169	8.03688	0.0436710	3.0380344	28	1	6 days	0.61	E Williams	2000 GJ ₂₃
2000 GK ₂₃	15.6	0.15	20000406	240.77284	291.67266	32.56000	3.45222	0.1045937	2.9831194	20	1	13 days	0.30	Williams	2000 GK ₂₃
2000 GL ₂₃	16.3	0.15	20000406	35.94677	132.57428	21.91707	6.51210	0.0700146	2.3668829	35	1	10 days	0.50	Williams	2000 GL ₂₃
2000 GN ₂₃	16.4	0.15	20000406	246.70665	133.64618	192.82488	20.76189	0.1848618	2.7324334	16	1	3 days	0.42	E Williams	2000 GN ₂₃
2000 GO ₂₃	14.2	0.15	20000406	255.94389	308.97245	17.44130	25.00271	0.2738064	3.0938237	24	1	8 days	0.67	Williams	2000 GO ₂₃
2000 GP ₂₃	16.1	0.15	20000317	29.74639	132.18805	24.39807	7.08013	0.0534555	2.3627296	36	1	16 days	0.40	Williams	2000 GP ₂₃
2000 GQ ₂₃	17.7	0.15	20000406	330.73088	193.02446	41.99050	2.59384	0.1522977	2.6776396	16	1	11 days	0.60	Williams	2000 GQ ₂₃
2000 GR ₂₃	16.1	0.15	20000406	357.65090	328.44049	230.08426	1.07049	0.1550564	2.4377628	27	1	5 days	0.83	E Williams	2000 GR ₂₃
2000 GT ₂₃	16.4	0.15	20000406	122.73906	65.78025	4.13577	2.72744	0.0241349	2.7520982	17	1	5 days	0.55	E Williams	2000 GT ₂₃
2000 GV ₂₃	17.0	0.15	20000406	59.64227	107.96853	13.05728	10.84659	0.1346428	2.6143383	21	1	8 days	0.47	Williams	2000 GV ₂₃
2000 GD ₂₄	17.5	0.15	20000406	282.77833	14.95103	271.89734	0.39621	0.1236869	2.4217378	12	1	5 days	0.44	E Williams	2000 GD ₂₄
2000 GE ₂₄	18.3	0.15	20000317	357.71849	218.08023	332.69275	0.42385	0.2427182	2.4325119	17	1	4 days	0.92	E Williams	2000 GE ₂₄
2000 GK ₂₄	18.2	0.15	20000406	348.79851	215.39263	357.83690	2.76344	0.2098523	2.2415580	13	1	2 days	0.74	E Williams	2000 GK ₂₄
2000 GO ₂₄	17.4	0.15	20000406	175.57277	17.01726	2.79054	6.11667	0.0601314	2.3242916	12	1	7 days	0.29	E Williams	2000 GO ₂₄
2000 GQ ₂₄	15.3	0.15	20000406	286.13483	273.24462	12.27709	15.65978	0.1378100	2.5502945	23	1	3 days	0.58	E Williams	2000 GQ ₂₄
2000 GR ₂₄	15.1	0.15	20000406	239.92020	132.97400	202.85656	11.33627	0.2367857	2.8831636	36	1	8 days	0.38	Williams	2000 GR ₂₄
2000 GT ₂₄	15.7	0.15	20000317	259.73270	96.88739	207.94536	6.60786	0.1242257	2.3949009	33	1	16 days	0.66	Williams	2000 GT ₂₄
2000 GU ₂₄	18.2	0.15	20000406	9.78429	338.88383	201.43971	10.77932	0.2215148	2.8302430	13	1	5 days	0.63	E Williams	2000 GU ₂₄
2000 GV ₂₄	15.9	0.15	20000406	348.69977	10.31987	200.08621	9.65837	0.1210547	2.5163385	28	1	5 days	0.84	E Williams	2000 GV ₂₄
2000 GY ₂₄	18.2	0.15	20000406	42.19236	190.72100	293.46774	1.12295	0.2963393	2.7162472	12	1	7 days	0.55	E Williams	2000 GY ₂₄
2000 GC ₂₅	14.6	0.15	20000317	294.77580	57.77622	205.97597	4.36243	0.0620174	2.8855620	39	1	31 days	0.51	Williams	2000 GC ₂₅
2000 GF ₂₅	16.0	0.15	20000317	10.41739	301.10061	230.15399	0.55928	0.2613084	3.0616170	17	1	3 days	0.50	E Williams	2000 GF ₂₅
2000 GJ ₂₅	15.0	0.15	20000317	243.64614	301.24176	11.41033	1.95854	0.0433669	2.8498219	17	1	4 days	0.64	E Williams	2000 GJ ₂₅
2000 GQ ₂₅	16.7	0.15	20000317	350.00773	192.59271	9.76800	1.30642	0.1255618	2.3814965	45	1	16 days	0.44	Williams	2000 GQ ₂₅
2000 GR ₂₅	16.4	0.15	20000317	277.75168	84.63240	200.39435	4.01658	0.0952408	2.6436178	18	1	8 days	0.46	Williams	2000 GR ₂₅
2000 GT ₂₅	15.8	0.15	20000317	51.88739	286.27410	195.19606	12.02470	0.1721252	2.5727930	46	1	15 days	0.58	Williams	2000 GT ₂₅
2000 GV ₂₅	16.2	0.15	20000406	317.17511	73.91332	182.45446	1.10300	0.1959728	3.0841451	16	1	6 days	0.66	E Williams	2000 GV ₂₅
2000 GW ₂₅	17.9	0.15	20000406	304.45082	196.82420	66.74087	0.57746	0.1219422	2.0560598	20	1	7 days	0.65	E Williams	2000 GW ₂₅
2000 GX ₂₅	15.9	0.15	20000317	279.16526	258.59959	30.63144	1.96904	0.1459641	3.1090727	17	1	13 days	0.33	Williams	2000 GX ₂₅
2000 GY ₂₅	16.1	0.15	20000406	113.67882	259.18711	180.52902	2.51921	0.0208147	2.3900904	28	1	10 days	0.54	Williams	2000 GY ₂₅
2000 GA ₂₆	17.6	0.15	20000317	301.74705	70.36305	191.38199	7.58838	0.1364973	2.2250993	27	1	16 days	0.49	Williams	2000 GA ₂₆
2000 GD ₂₆	15.1	0.15	20000317	12.51309	147.75501	31.54975	0.65239	0.0177400	3.1979064	21	1	3 days	0.45	E Williams	2000 GD ₂₆
2000 GE ₂₆	15.3	0.15	20000406	79.77687	83.92385	23.06867	5.55343	0.0772244	3.2443328	20	1	8 days	0.48	Williams	2000 GE ₂₆
2000 GF ₂₆	16.3	0.15	20000406	320.76779	231.75468	18.60605	11.65904	0.1790849	3.2102890	16	1	6 days	0.73	E Williams	2000 GF ₂₆
2000 GG ₂₆	15.9	0.15	20000406	215.16668	333.02267	21.67551	3.86314	0.2771094	2.2375584	15	1	6 days	0.32	E Williams	2000 GG ₂₆
2000 GH ₂₆	16.5	0.15	20000406	206.72681	164.92861	191.35287	6.76248	0.1664446	2.4252220	15	1	6 days	0.50	E Williams	2000 GH ₂₆
2000 GK ₂₆	15.5	0.15	20000406	287.36354	270.52657	19.74751	4.47458	0.1891361	2.7155232	31	1	9 days	0.50	Williams	2000 GK ₂₆
2000 GL ₂₆	15.8	0.15	20000406	290.09163	87.18816	192.73019	10.13290	0.1246186	3.0324701	18	1	6 days	0.83	E Williams	2000 GL ₂₆
2000 GN ₂₆	15.8	0.15	20000406	324.08025	87.19224	159.01874	1.31893	0.1767257	3.0255359	35	1	9 days	0.80	Williams	2000 GN ₂₆
2000 GO ₂₆	16.0	0.15	20000406	331.27365	190.38415	47.23294	1.64900	0.1890990	2.9842289	24	1	7 days	0.57	Williams	2000 GO ₂₆
2000 GP ₂₆	18.1	0.15	20000406	353.95013	161.29857	43.14913	1.71693	0.1555151	2.2769855	28	1	7 days	0.70	Williams	2000 GP ₂₆
2000 GQ ₂₆	16.4	0.15	20000406	228.08111	172.43659	173.36812	2.62438	0.2593602	2.4152119	14	1	7 days	0.38	Williams	2000 GQ ₂₆
2000 GR ₂₆	13.2	0.15	20000406	77.16667	52.33473	40.62237	4.08174	0.2220774	3.1055889	19	1	5 days	0.36	E Williams	2000 GR ₂₆
2000 GS ₂₆	15.7	0.15	20000406	268.61793	284.17373	24.95659	7.47969	0.1969318	2.3660443	33	1	5 days	0.48	E Williams	2000 GS ₂₆
2000 GT ₂₆	18.2	0.15	20000406	272.55870	106.35873	182.86693	4.38209	0.0495597	2.1444399	14	1	2 days	0.47	E Williams	2000 GT ₂₆
2000 GU ₂₆	16.6	0.15	20000406	238.04351	227.16928	107.50226	1.10529	0.1965016	2.1501184	29	1	5 days	0.51	E Williams	2000 GU ₂₆
2000 GV ₂₆	14.8	0.15	20000406	186.58942	347.35617	22.85285	10.57139	0.0725027	3.0210024	32	1	7 days	0.46	Williams	2000 GV ₂₆
2000 GW ₂₆	17.5	0.15	20000406	340.29176	201.80865	26.10100	6.91466	0.2317217	3.0890329	17	1	7 days	0.93	Williams	2000 GW ₂₆
2000 GE ₂₇	16.3	0.15	20000406	30.66766	128.99882	22.09252	13.50524	0.1977368	2.6603746	31	1	9 days	0.40	Williams	2000 GE ₂₇
2000 GG ₂₇	18.9	0.15	20000406	354.62663	33.67720	170.68423	1.95035	0.1757077	2.0981875	16	1	7 days	0.68	Williams	2000 GG ₂₇

2000 APR. 18

M.P.C. 40513

2000 GH ₂₇	16.1	0.15	20000317	325.77659	206.54619	28.07041	7.95369	0.1331896	2.6143879	23	1	4 days	0.77	E	Williams	2000 GH ₂₇
2000 GK ₂₇	17.2	0.15	20000406	316.51851	208.58188	44.64586	2.57720	0.1463575	2.3939821	13	1	7 days	0.38		Williams	2000 GK ₂₇
2000 GL ₂₇	18.9	0.15	20000406	346.90665	77.92204	140.84732	0.75403	0.2535775	2.3892853	14	1	6 days	0.85	E	Williams	2000 GL ₂₇
2000 GN ₂₇	16.6	0.15	20000406	315.36881	231.06823	25.70462	4.43062	0.1695055	2.3517340	25	1	6 days	0.39	E	Williams	2000 GN ₂₇
2000 GO ₂₇	15.7	0.15	20000406	170.09234	214.18134	170.17006	2.53454	0.1063078	2.8726351	11	1	7 days	0.45		Williams	2000 GO ₂₇
2000 GP ₂₇	19.0	0.15	20000406	339.82908	55.43078	171.10378	1.43624	0.1957006	2.2002846	15	1	7 days	1.09		Williams	2000 GP ₂₇
2000 GR ₂₇	15.0	0.15	20000406	60.41485	87.21974	32.90510	3.24784	0.1475224	3.9407140	12	1	6 days	0.38	E	Williams	2000 GR ₂₇
2000 GT ₂₇	17.2	0.15	20000406	291.48491	131.60626	147.74221	0.97798	0.1273350	2.2109540	21	1	6 days	0.37	E	Williams	2000 GT ₂₇
2000 GV ₂₇	17.2	0.15	20000406	187.00379	348.15276	22.77000	4.99130	0.0973497	2.2753178	13	1	6 days	0.37	E	Williams	2000 GV ₂₇
2000 GW ₂₇	16.1	0.15	20000406	275.16909	258.11715	35.41392	2.90151	0.1040410	2.5823865	17	1	6 days	0.69	E	Williams	2000 GW ₂₇
2000 GY ₂₇	16.7	0.15	20000317	37.59315	105.16200	40.04295	1.58020	0.0948049	2.2198131	37	1	15 days	0.43		Williams	2000 GY ₂₇
2000 GZ ₂₇	16.3	0.15	20000406	128.59420	231.53980	178.89879	2.90539	0.2434146	2.4479417	12	1	6 days	0.53	E	Williams	2000 GZ ₂₇
2000 GB ₂₈	19.2	0.15	20000406	333.43992	25.97808	209.90461	3.21312	0.1979839	2.2258676	15	1	5 days	0.50	E	Williams	2000 GB ₂₈
2000 GH ₂₈	14.8	0.15	20000406	73.72963	272.36358	206.57175	4.70669	0.0360909	2.3348037	34	1	5 days	0.38	E	Williams	2000 GH ₂₈
2000 GJ ₂₈	16.6	0.15	20000317	285.55928	280.98542	5.74455	2.37771	0.1843264	2.4033089	30	1	9 days	0.51		Williams	2000 GJ ₂₈
2000 GM ₂₈	15.0	0.15	20000406	135.15233	72.41796	339.55218	1.55827	0.1357468	2.2281231	28	1	5 days	0.56	E	Williams	2000 GM ₂₈
2000 GN ₂₈	15.9	0.15	20000406	9.22200	202.42771	341.40579	0.86740	0.1614870	2.8332520	33	1	5 days	0.58	E	Williams	2000 GN ₂₈
2000 GQ ₂₈	17.3	0.15	20000406	76.30545	103.74492	2.66513	1.61229	0.1226060	2.3189911	17	1	2 days	0.56	E	Williams	2000 GQ ₂₈
2000 GT ₂₈	15.7	0.15	20000317	20.34092	187.06974	335.19813	1.22757	0.1618233	2.5404043	29	1	14 days	0.48		Williams	2000 GT ₂₈
2000 GU ₂₈	13.8	0.15	20000406	297.52413	258.28062	11.49034	8.30816	0.0944018	3.1680435	28	1	7 days	0.39		Williams	2000 GU ₂₈
2000 GX ₂₈	15.7	0.15	20000317	16.58537	209.54510	318.61167	0.76012	0.1704853	2.9255731	18	1	4 days	0.58	E	Williams	2000 GX ₂₈
2000 GY ₂₈	16.4	0.15	20000317	276.00236	333.43609	318.95730	0.33266	0.1465849	2.3592394	22	1	8 days	0.62		Williams	2000 GY ₂₈
2000 GZ ₂₈	15.2	0.15	20000406	310.88324	254.03261	9.22385	11.68260	0.1704028	2.6639547	21	1	5 days	0.49	E	Williams	2000 GZ ₂₈
2000 GE ₂₉	14.4	0.15	20000406	263.43552	331.84563	351.35487	3.07425	0.2807845	2.5534933	19	1	3 days	0.73	E	Williams	2000 GE ₂₉
2000 GF ₂₉	12.9	0.15	20000406	163.96878	96.94345	289.97357	1.25044	0.2669695	2.8122914	28	1	5 days	0.39	E	Williams	2000 GF ₂₉
2000 GJ ₂₉	16.3	0.15	20000317	339.44705	269.76630	308.63245	1.51033	0.1295504	2.6698273	18	1	3 days	0.45	E	Williams	2000 GJ ₂₉
2000 GL ₂₉	16.7	0.15	20000406	79.29269	261.40603	205.87702	6.35956	0.0946618	2.4071437	20	1	9 days	0.69		Williams	2000 GL ₂₉
2000 GM ₂₉	15.7	0.15	20000317	148.75690	57.68706	338.90930	1.90870	0.1637412	2.3555670	22	1	5 days	0.68	E	Williams	2000 GM ₂₉
2000 GO ₂₉	15.9	0.15	20000406	5.46886	240.91818	309.70333	0.95146	0.1185166	2.5278655	18	1	3 days	0.69	E	Williams	2000 GO ₂₉
2000 GP ₂₉	16.3	0.15	20000406	67.94186	247.02586	228.47511	1.18398	0.1242950	2.4576082	14	1	2 days	0.51	E	Williams	2000 GP ₂₉
2000 GR ₂₉	17.1	0.15	20000406	65.89144	261.53155	205.72516	2.49138	0.2126354	2.5977274	12	1	8 days	0.53		Williams	2000 GR ₂₉
2000 GS ₂₉	17.8	0.15	20000406	13.81396	337.22292	200.65497	8.08257	0.1654327	2.4562841	13	1	8 days	0.53		Williams	2000 GS ₂₉
2000 GT ₂₉	17.3	0.15	20000406	278.00169	89.67549	198.03953	11.34286	0.0727323	2.5575851	13	1	8 days	0.64		Williams	2000 GT ₂₉
2000 GU ₂₉	14.1	0.15	20000406	230.82311	327.05539	15.91869	14.06316	0.2148094	2.6186130	39	1	10 days	0.62		Williams	2000 GU ₂₉
2000 GW ₂₉	18.1	0.15	20000406	325.66087	39.52751	200.18120	2.00793	0.1104452	2.2031164	12	1	8 days	0.44		Williams	2000 GW ₂₉
2000 GX ₂₉	18.2	0.15	20000406	327.07798	235.22970	9.40221	0.39128	0.1880594	2.1829110	13	1	8 days	0.48		Williams	2000 GX ₂₉
2000 GY ₂₉	16.4	0.15	20000406	106.92268	87.55859	342.76297	1.02446	0.2064835	2.4185226	17	1	7 days	0.39		Williams	2000 GY ₂₉
2000 GZ ₂₉	15.6	0.15	20000406	286.01668	278.60013	354.52212	1.69869	0.0106294	2.8629564	21	1	9 days	0.35		Williams	2000 GZ ₂₉
2000 GA ₃₀	14.9	0.15	20000406	315.89228	55.13297	198.95192	11.78391	0.1363296	2.7227592	43	1	11 days	0.35		Williams	2000 GA ₃₀
2000 GC ₃₀	14.0	0.15	20000406	255.07808	297.62469	16.81932	2.90327	0.1090782	2.8152689	36	1	11 days	0.44		Williams	2000 GC ₃₀
2000 GD ₃₀	18.6	0.15	20000406	318.72772	246.52148	4.45874	1.86988	0.1383791	2.1348887	10	1	7 days	0.50		Williams	2000 GD ₃₀
2000 GE ₃₀	17.0	0.15	20000406	280.25803	269.86664	16.19161	5.03664	0.0739561	2.2704424	16	1	8 days	0.59		Williams	2000 GE ₃₀
2000 GF ₃₀	17.1	0.15	20000406	310.92057	54.35851	207.96136	2.48658	0.1548565	2.4317902	19	1	7 days	0.47		Williams	2000 GF ₃₀
2000 GJ ₃₀	16.4	0.15	20000406	227.09098	155.82404	192.46947	5.98266	0.2779764	2.2516263	15	1	6 days	0.79	E	Williams	2000 GJ ₃₀
2000 GN ₃₀	16.0	0.15	20000406	126.28829	49.24367	16.25167	5.87130	0.0617293	2.6138020	13	1	8 days	0.24		Williams	2000 GN ₃₀
2000 GP ₃₀	15.6	0.15	20000406	153.76660	14.29789	19.83888	3.02385	0.2338926	2.6259307	12	1	8 days	0.48		Williams	2000 GP ₃₀
2000 GQ ₃₀	17.3	0.15	20000406	5.89702	16.46062	170.97225	0.86197	0.2284361	2.7032424	20	1	3 days	0.60	E	Williams	2000 GQ ₃₀
2000 GT ₃₀	15.9	0.15	20000406	69.53796	300.88207	178.27799	0.82344	0.0782662	3.0726068	16	1	8 days	0.45		Williams	2000 GT ₃₀
2000 GU ₃₀	17.3	0.15	20000406	350.66156	191.80595	19.18288	2.93143	0.1833447	2.5588921	16	1	8 days	0.45		Williams	2000 GU ₃₀
2000 GV ₃₀	18.1	0.15	20000406	350.37433	189.90408	21.20960	2.62369	0.1764999	2.2278590	12	1	8 days	0.28		Williams	2000 GV ₃₀
2000 GW ₃₀	16.1	0.15	20000406	84.64123	267.08978	184.72833	1.61937	0.1836111	2.5265773	17	1	2 days	0.50	E	Williams	2000 GW ₃₀
2000 GX ₃₀	16.9	0.15	20000406	303.33499	67.24315	197.53248	1.47093	0.1021824	3.0378994	12	1	8 days	0.59		Williams	2000 GX ₃₀
2000 GY ₃₀	16.2	0.15	20000406	105.44226	52.86287	21.24646	1.89606	0.1749625	2.4039473	15	1	10 days	0.60		Williams	2000 GY ₃₀

2000 GA ₃₁	17.6	0.15	20000406	323.54898	72.67035	178.00716	2.87744	0.2052042	2.3537172	16	1	7 days	0.77	Williams	2000 GA ₃₁
2000 GB ₃₁	17.1	0.15	20000317	334.06813	35.11895	185.91371	5.13371	0.0912344	2.2410601	27	1	16 days	0.52	Williams	2000 GB ₃₁
2000 GC ₃₁	14.1	0.15	20000406	170.85700	216.47396	168.76239	2.16572	0.0705489	2.9435612	24	1	5 days	0.55	E Williams	2000 GC ₃₁
2000 GE ₃₁	16.4	0.15	20000406	265.08011	287.88224	26.06183	4.53651	0.2001231	2.1699657	20	1	6 days	0.39	E Williams	2000 GE ₃₁
2000 GF ₃₁	15.6	0.15	20000406	349.49197	25.89691	188.36529	4.54546	0.2274240	2.6046250	28	1	8 days	0.24	Williams	2000 GF ₃₁
2000 GM ₃₁	16.1	0.15	20000406	38.07013	325.31040	188.10371	5.50288	0.0783456	2.3046004	23	1	5 days	0.55	E Williams	2000 GM ₃₁
2000 GN ₃₁	16.0	0.15	20000406	295.07347	238.09943	44.98512	2.29827	0.1848572	2.3058322	16	1	5 days	0.44	E Williams	2000 GN ₃₁
2000 GP ₃₁	14.6	0.15	20000406	143.66268	217.86605	181.09811	4.30069	0.2898854	2.3143375	17	1	5 days	0.48	E Williams	2000 GP ₃₁
2000 GF ₃₂	15.8	0.15	20000317	144.23556	22.82662	21.41075	3.99325	0.0856992	2.5916648	23	1	19 days	0.62	Williams	2000 GF ₃₂
2000 GG ₃₂	19.3	0.15	20000406	352.92245	120.29735	88.47411	0.34120	0.2210438	2.3645477	11	1	8 days	0.97	Williams	2000 GG ₃₂
2000 GH ₃₂	18.1	0.15	20000406	345.25356	197.39870	19.42035	4.41445	0.1295009	2.2072094	17	1	8 days	0.53	Williams	2000 GH ₃₂
2000 GJ ₃₂	15.0	0.15	20000406	251.71227	149.60993	180.12129	2.12745	0.2430321	2.7045523	23	1	5 days	0.54	E Williams	2000 GJ ₃₂
2000 GM ₃₂	16.8	0.15	20000406	291.98099	269.80094	21.30810	6.75497	0.2188552	2.4049213	17	1	8 days	0.34	Williams	2000 GM ₃₂
2000 GO ₃₂	17.6	0.15	20000406	50.55477	58.13145	72.82190	0.52433	0.1635134	2.2515684	17	1	8 days	0.30	Williams	2000 GO ₃₂
2000 GQ ₃₂	15.3	0.15	20000406	1.51480	4.49669	191.98268	3.36168	0.0817852	2.6381070	22	1	8 days	0.46	Williams	2000 GQ ₃₂
2000 GS ₃₂	15.3	0.15	20000406	31.25593	338.91407	185.16330	3.37736	0.0504090	2.7115195	29	1	8 days	0.63	Williams	2000 GS ₃₂
2000 GC ₃₃	15.0	0.15	20000406	39.56346	139.09967	9.97004	7.40738	0.1183597	2.9093156	19	1	5 days	0.59	E Williams	2000 GC ₃₃
2000 GF ₃₃	13.9	0.15	20000406	179.77886	8.16702	10.43399	6.94762	0.1271060	2.6933532	39	1	9 days	0.66	Williams	2000 GF ₃₃
2000 GG ₃₃	14.3	0.15	20000406	223.07184	61.61354	284.90834	1.16537	0.1656623	2.4286449	18	1	5 days	0.51	E Williams	2000 GG ₃₃
2000 GH ₃₃	15.9	0.15	20000406	343.73080	9.84725	212.66070	4.30853	0.1957834	2.5280797	22	1	5 days	0.47	E Williams	2000 GH ₃₃
2000 GJ ₃₃	14.5	0.15	20000406	67.91028	112.61098	358.71840	2.31264	0.1684354	2.8865900	28	1	7 days	0.58	Williams	2000 GJ ₃₃
2000 GP ₃₃	15.4	0.15	20000406	281.79364	287.62552	3.55676	3.99685	0.1259464	2.6089422	23	1	5 days	0.51	E Williams	2000 GP ₃₃
2000 GQ ₃₃	15.7	0.15	20000317	26.19482	146.37450	9.16780	6.57576	0.1869651	3.0558716	18	1	3 days	0.41	E Williams	2000 GQ ₃₃
2000 GY ₃₃	14.9	0.15	20000406	269.01693	72.52019	242.44086	1.14034	0.2287333	2.3822608	26	1	5 days	0.50	E Williams	2000 GY ₃₃
2000 GZ ₃₃	14.4	0.15	20000406	136.65814	216.54722	197.69726	8.82828	0.1039546	3.1057657	25	1	8 days	0.66	Williams	2000 GZ ₃₃
2000 GA ₃₄	16.4	0.15	20000406	259.53622	113.70846	202.89500	5.73717	0.1668086	2.3210638	21	1	10 days	0.77	Williams	2000 GA ₃₄
2000 GB ₃₄	16.3	0.15	20000406	295.89019	259.19993	19.28878	2.44461	0.1475435	2.3424582	45	1	14 days	0.63	Williams	2000 GB ₃₄
2000 GD ₃₄	19.3	0.15	20000406	4.44053	177.59360	13.00700	0.89388	0.2264241	2.1899930	12	1	8 days	0.81	Williams	2000 GD ₃₄
2000 GF ₃₄	18.7	0.15	20000406	25.25123	327.15592	193.92171	2.04570	0.1885955	2.2463591	11	1	8 days	0.41	Williams	2000 GF ₃₄
2000 GG ₃₄	18.2	0.15	20000406	331.47368	210.90576	24.94289	1.54161	0.1426548	2.3653746	11	1	8 days	0.42	Williams	2000 GG ₃₄
2000 GH ₃₄	19.4	0.15	20000406	3.02578	185.09231	8.54465	0.98679	0.1691136	2.0730995	16	1	7 days	0.56	Williams	2000 GH ₃₄
2000 GJ ₃₄	13.8	0.15	20000406	263.44031	304.54302	18.29655	26.90865	0.2572004	3.1938352	41	1	5 days	0.58	E Williams	2000 GJ ₃₄
2000 GL ₃₄	14.5	0.15	20000317	79.52827	254.28659	207.53777	1.18484	0.1225550	3.1709269	56	1	30 days	0.80	Williams	2000 GL ₃₄
2000 GM ₃₄	16.7	0.15	20000406	112.07126	44.66895	16.61050	7.19590	0.2806483	2.3573760	12	1	7 days	0.48	Williams	2000 GM ₃₄
2000 GN ₃₄	16.0	0.15	20000406	275.53864	99.63894	200.08274	5.55515	0.1461328	2.2568405	64	1	8 days	0.49	Williams	2000 GN ₃₄
2000 GO ₃₄	18.0	0.15	20000406	29.59641	147.99168	15.43072	4.37803	0.0862963	2.1962653	23	1	7 days	0.69	Williams	2000 GO ₃₄
2000 GP ₃₄	16.5	0.15	20000406	278.57999	101.25369	198.02174	7.35196	0.1679792	2.3541979	11	1	8 days	0.26	Williams	2000 GP ₃₄
2000 GQ ₃₄	14.2	0.15	20000317	338.65401	188.37476	34.37615	0.65798	0.1459721	3.1515451	65	1	35 days	0.31	Williams	2000 GQ ₃₄
2000 GS ₃₄	16.7	0.15	20000406	261.64429	123.45220	199.75895	7.52005	0.2481868	2.4135891	15	1	8 days	0.41	Williams	2000 GS ₃₄
2000 GT ₃₄	16.7	0.15	20000406	213.40438	338.16656	15.24518	4.50552	0.1449379	2.2230378	15	1	7 days	1.01	Williams	2000 GT ₃₄
2000 GU ₃₄	17.4	0.15	20000406	33.42635	321.12241	199.29395	5.58405	0.0693868	2.2058425	36	1	8 days	0.60	Williams	2000 GU ₃₄
2000 GV ₃₄	14.4	0.15	20000406	65.68635	282.39493	202.42351	4.49615	0.0804334	3.0654540	30	1	5 days	0.73	E Williams	2000 GV ₃₄
2000 GW ₃₄	16.8	0.15	20000406	325.71571	49.47295	192.27933	2.38290	0.1222493	2.2836723	54	1	11 days	0.41	Williams	2000 GW ₃₄
2000 GX ₃₄	15.7	0.15	20000406	155.16278	202.30055	197.10166	6.68887	0.1007015	2.3765635	39	1	8 days	0.51	Williams	2000 GX ₃₄
2000 GY ₃₄	16.6	0.15	20000406	357.36726	183.42649	18.86003	7.30194	0.1517817	2.5581976	39	1	7 days	0.59	Williams	2000 GY ₃₄
2000 GZ ₃₄	17.3	0.15	20000406	288.39173	257.43085	18.31193	6.94879	0.0469717	2.2953315	25	1	7 days	0.53	Williams	2000 GZ ₃₄
2000 GC ₃₅	16.0	0.15	20000406	16.25833	286.15299	245.51449	0.64048	0.2419449	2.7610262	40	1	8 days	0.95	Williams	2000 GC ₃₅
2000 GE ₃₅	15.5	0.15	20000406	291.99541	86.46241	203.79006	8.75758	0.2028709	2.5867650	35	1	5 days	0.61	E Williams	2000 GE ₃₅
2000 GK ₃₅	14.5	0.15	20000406	20.64883	306.60492	225.98927	0.98149	0.1258360	2.5710727	35	1	5 days	0.36	E Williams	2000 GK ₃₅
2000 GL ₃₅	13.9	0.15	20000406	89.84863	75.77775	18.04205	9.90061	0.1400754	2.7717935	26	1	5 days	0.57	E Williams	2000 GL ₃₅
2000 GM ₃₅	15.7	0.15	20000406	327.91904	233.99462	13.72794	7.04962	0.2127879	2.4519633	49	1	5 days	0.56	E Williams	2000 GM ₃₅
2000 GP ₃₅	15.4	0.15	20000406	329.94851	226.95600	9.40558	6.32382	0.1078888	2.3055960	29	1	5 days	0.45	E Williams	2000 GP ₃₅
2000 GQ ₃₅	15.4	0.15	20000406	352.78150	232.43033	335.76334	1.87193	0.0790991	2.5078706	28	1	3 days	0.92	E Williams	2000 GQ ₃₅

2000 APR. 18

M.P.C. 40515

2000 GV ₃₅	15.1	0.15	20000406	300.70653	263.21675	11.08074	4.37458	0.1452935	2.2301513	44	1	8 days	0.37		Williams	2000 GV ₃₅
2000 GZ ₃₅	15.7	0.15	20000406	263.14919	298.37237	9.79741	5.30304	0.1027304	2.2006009	25	1	3 days	0.57	E	Williams	2000 GZ ₃₅
2000 GB ₃₆	13.3	0.15	20000406	23.21515	231.22038	301.29351	1.00733	0.0921998	2.9532508	33	1	5 days	0.53	E	Williams	2000 GB ₃₆
2000 GD ₃₆	14.9	0.15	20000406	108.95326	73.56956	9.61043	5.55596	0.0802935	2.5932758	26	1	3 days	0.65	E	Williams	2000 GD ₃₆
2000 GE ₃₆	12.8	0.15	20000406	92.23344	45.02048	41.79006	1.69360	0.2064754	3.1996271	18	1	2 days	0.46	E	Williams	2000 GE ₃₆
2000 GO ₃₆	13.4	0.15	20000406	8.69662	60.00269	110.01944	1.35644	0.0891337	3.2708257	20	1	3 days	0.83	E	Williams	2000 GO ₃₆
2000 GP ₃₆	14.5	0.15	20000406	336.07434	203.47607	10.55729	13.45678	0.1327409	2.6195973	23	1	5 days	0.41	E	Williams	2000 GP ₃₆
2000 GQ ₃₆	14.5	0.15	20000406	149.15209	184.20126	207.81629	1.98836	0.2493840	2.7798112	22	1	6 days	0.38	E	Williams	2000 GQ ₃₆
2000 GT ₃₆	16.7	0.15	20000317	148.59421	18.12025	10.07919	4.91218	0.2950180	2.3293260	13	1	13 days	0.64		Williams	2000 GT ₃₆
2000 GU ₃₆	14.2	0.15	20000406	237.78542	169.34737	158.83278	9.81604	0.2280888	2.4279778	27	1	5 days	0.50	E	Williams	2000 GU ₃₆
2000 GV ₃₆	16.9	0.15	20000317	331.72862	211.80382	16.14829	4.22694	0.1576573	3.1065248	16	1	13 days	0.42		Williams	2000 GV ₃₆
2000 GW ₃₆	15.2	0.15	20000406	146.28328	8.21663	37.31412	3.35069	0.0581620	3.0637053	26	1	9 days	0.50		Williams	2000 GW ₃₆
2000 GX ₃₆	16.7	0.15	20000406	277.91986	307.75226	349.14202	2.61379	0.1636352	2.4228674	15	1	7 days	0.38	E	Williams	2000 GX ₃₆
2000 GY ₃₆	15.9	0.15	20000406	355.02924	183.99496	19.27330	4.77056	0.1420281	2.9569316	34	1	8 days	0.74		Williams	2000 GY ₃₆
2000 GZ ₃₆	17.1	0.15	20000406	41.69954	324.26183	183.43723	3.23540	0.0775247	2.5180987	19	1	9 days	0.83		Williams	2000 GZ ₃₆
2000 GB ₃₇	16.1	0.15	20000406	173.85477	350.31342	30.92781	2.69652	0.1779342	2.4551902	10	1	6 days	0.50	E	Williams	2000 GB ₃₇
2000 GC ₃₇	17.7	0.15	20000406	357.37875	194.36611	6.61776	3.79455	0.1178064	2.7871071	10	1	7 days	0.39		Williams	2000 GC ₃₇
2000 GD ₃₇	17.6	0.15	20000406	288.79469	90.90024	198.38076	6.32970	0.1790358	2.3022257	11	1	8 days	0.51		Williams	2000 GD ₃₇
2000 GE ₃₇	16.2	0.15	20000406	136.25492	31.80938	13.95285	3.07941	0.2525697	2.5183812	10	1	8 days	0.50		Williams	2000 GE ₃₇
2000 GF ₃₇	18.2	0.15	20000406	354.53329	179.95679	25.71916	1.54696	0.1999284	2.4609735	11	1	8 days	0.78		Williams	2000 GF ₃₇
2000 GM ₃₇	17.2	0.15	20000406	38.64188	312.59507	202.92482	6.58826	0.0544142	2.3609189	15	1	7 days	0.65		Williams	2000 GM ₃₇
2000 GN ₃₇	15.7	0.15	20000406	81.22042	89.64096	13.09785	0.21430	0.1277316	3.0881436	15	1	8 days	0.53		Williams	2000 GN ₃₇
2000 GO ₃₇	17.6	0.15	20000406	279.35325	105.10487	184.42159	0.46499	0.0917235	2.5226154	9	1	8 days	0.43		Williams	2000 GO ₃₇
2000 GQ ₃₇	17.8	0.15	20000406	18.28063	330.30854	200.57669	1.00576	0.1974678	2.4374125	20	1	8 days	0.83		Williams	2000 GQ ₃₇
2000 GR ₃₇	15.6	0.15	20000406	298.37554	242.37015	23.71169	2.11434	0.0531126	2.9109464	15	1	8 days	0.47		Williams	2000 GR ₃₇
2000 GS ₃₇	17.5	0.15	20000406	299.69409	50.44004	227.58249	0.63334	0.1725598	2.3770036	14	1	7 days	0.74		Williams	2000 GS ₃₇
2000 GY ₃₇	17.9	0.15	20000406	296.60084	100.39309	187.08273	4.43584	0.2485199	2.2173784	10	1	7 days	0.51	E	Williams	2000 GY ₃₇
2000 GZ ₃₇	13.6	0.15	20000406	186.74344	347.74974	24.70513	10.40554	0.0788277	2.9712360	19	1	6 days	0.59	E	Williams	2000 GZ ₃₇
2000 GA ₃₈	16.0	0.15	20000406	281.54566	119.79958	179.50173	3.85192	0.1988911	2.3489521	18	1	5 days	0.48	E	Williams	2000 GA ₃₈
2000 GB ₃₈	17.0	0.15	20000406	357.67864	170.23731	30.86573	4.03917	0.1453033	2.5556006	15	1	6 days	0.83	E	Williams	2000 GB ₃₈
2000 GC ₃₈	15.8	0.15	20000317	91.32636	46.55897	50.25250	2.65708	0.0494368	2.6747482	16	1	14 days	1.44		Williams	2000 GC ₃₈
2000 GD ₃₈	15.3	0.15	20000406	314.47099	63.76907	190.25750	7.49425	0.1141307	2.2884626	24	1	5 days	0.28	E	Williams	2000 GD ₃₈
2000 GJ ₃₈	14.3	0.15	20000406	287.07485	249.44914	25.19143	13.49251	0.0289943	3.2259273	20	1	7 days	0.73		Williams	2000 GJ ₃₈
2000 GL ₃₈	15.4	0.15	20000317	45.28007	321.25310	172.87550	3.72972	0.1477367	2.6791927	29	1	13 days	0.83		Williams	2000 GL ₃₈
2000 GN ₃₈	15.8	0.15	20000406	288.59511	134.04312	150.34021	2.29859	0.1301193	2.2893308	12	1	5 days	0.55	E	Williams	2000 GN ₃₈
2000 GO ₃₈	13.9	0.15	20000317	156.53610	201.81194	193.11264	15.54371	0.0892262	2.6738498	19	1	4 days	0.31	E	Williams	2000 GO ₃₈
2000 GP ₃₈	15.0	0.15	20000317	287.47698	110.97467	173.42549	3.76500	0.1594627	2.5868023	27	1	14 days	0.28		Williams	2000 GP ₃₈
2000 GQ ₃₈	15.4	0.15	20000317	242.87973	168.69955	154.57060	2.03202	0.1291022	2.3549652	23	1	5 days	0.51	E	Williams	2000 GQ ₃₈
2000 GS ₃₈	15.9	0.15	20000406	47.36539	121.94796	22.64571	7.27270	0.0742249	2.6917363	16	1	8 days	0.45		Williams	2000 GS ₃₈
2000 GT ₃₈	15.4	0.15	20000406	300.25144	253.53132	21.06651	13.37637	0.1504729	2.8245878	26	1	8 days	0.48		Williams	2000 GT ₃₈
2000 GV ₃₈	15.4	0.15	20000406	257.19279	284.26417	40.98657	3.03605	0.2341866	2.4695886	18	1	5 days	0.36	E	Williams	2000 GV ₃₈
2000 GX ₃₈	16.2	0.15	20000406	332.75946	45.66083	192.11751	4.81475	0.1854183	2.4094286	20	1	5 days	0.51	E	Williams	2000 GX ₃₈
2000 GY ₃₈	15.0	0.15	20000317	59.97230	82.32017	25.84937	7.38131	0.2301064	2.7515939	38	1	17 days	0.36		Williams	2000 GY ₃₈
2000 GZ ₃₈	15.8	0.15	20000406	304.23234	242.78475	21.68537	16.45621	0.0984458	2.9863312	13	1	8 days	0.44		Williams	2000 GZ ₃₈
2000 GB ₃₉	15.6	0.15	20000406	18.27625	152.78675	26.43249	5.58928	0.0350988	2.6273368	26	1	8 days	0.38		Williams	2000 GB ₃₉
2000 GC ₃₉	17.3	0.15	20000406	307.73652	207.87779	63.71858	1.19798	0.2010198	2.2004271	22	1	5 days	0.45	E	Williams	2000 GC ₃₉
2000 GE ₃₉	14.6	0.15	20000406	240.94679	150.68825	178.00467	2.01323	0.1106374	2.9339973	20	1	14 days	0.28		Williams	2000 GE ₃₉
2000 GF ₃₉	15.0	0.15	20000406	169.36920	6.02137	22.61538	15.81159	0.0618996	3.2367551	12	1	8 days	0.29		Williams	2000 GF ₃₉
2000 GG ₃₉	18.3	0.15	20000406	44.55099	120.98465	24.45490	4.59936	0.0982234	2.1272210	12	1	8 days	0.48		Williams	2000 GG ₃₉
2000 GK ₃₉	15.9	0.15	20000317	223.17621	160.25508	173.57560	2.89146	0.0361776	2.4974182	17	1	3 days	0.50	E	Williams	2000 GK ₃₉
2000 GL ₃₉	14.0	0.15	20000317	171.68590	321.11499	61.04500	1.96255	0.0615856	2.5402344	22	1	4 days	0.29	E	Williams	2000 GL ₃₉
2000 GP ₃₉	15.3	0.15	20000317	14.90732	4.80437	169.80722	2.61652	0.1120849	2.6362994	20	1	5 days	0.65	E	Williams	2000 GP ₃₉
2000 GQ ₃₉	13.9	0.15	20000406	229.16117	320.46932	21.69813	11.67187	0.1543272	3.0439125	29	1	8 days	0.43		Williams	2000 GQ ₃₉

2000 GR ₃₉	14.9	0.15	20000406	202.51034	164.99197	199.54876	11.91146	0.2080027	2.6539040	27	1	11 days	0.58	Williams	2000 GR ₃₉
2000 GS ₃₉	17.4	0.15	20000406	67.48744	81.57433	27.93321	3.05830	0.1936774	2.4770254	12	1	8 days	0.46	Williams	2000 GS ₃₉
2000 GT ₃₉	17.2	0.15	20000406	89.47671	269.23582	191.06639	1.65679	0.0834589	2.4552405	11	1	8 days	0.38	Williams	2000 GT ₃₉
2000 GU ₃₉	15.9	0.15	20000406	82.55383	89.65425	25.33160	2.41360	0.0198836	3.1356720	10	1	7 days	0.33	E Williams	2000 GU ₃₉
2000 GV ₃₉	17.4	0.15	20000406	275.06216	284.51987	22.87772	4.60336	0.2032858	2.3550985	11	1	8 days	0.46	Williams	2000 GV ₃₉
2000 GW ₃₉	16.0	0.15	20000406	2.49280	122.01637	74.62580	0.65900	0.0859299	3.0213800	13	1	8 days	0.33	Williams	2000 GW ₃₉
2000 GX ₃₉	16.9	0.15	20000406	2.91075	161.57373	32.75542	0.60951	0.2441044	2.8626369	26	1	7 days	0.62	E Williams	2000 GX ₃₉
2000 GZ ₃₉	16.3	0.15	20000406	3.63011	354.95573	199.29492	6.07593	0.1977840	3.2406553	16	1	7 days	0.84	E Williams	2000 GZ ₃₉
2000 GC ₄₀	15.9	0.15	20000406	11.80224	152.16308	33.70693	1.01367	0.0631732	2.2318898	31	1	8 days	0.48	Williams	2000 GC ₄₀
2000 GD ₄₀	15.1	0.15	20000406	78.01845	278.63519	199.13517	18.13565	0.0366955	2.6371101	33	1	9 days	0.60	Williams	2000 GD ₄₀
2000 GE ₄₀	16.9	0.15	20000406	97.56305	64.48899	21.25784	5.83246	0.1512105	2.4194429	9	1	7 days	0.68	E Williams	2000 GE ₄₀
2000 GF ₄₀	18.2	0.15	20000406	301.59034	248.70365	30.97552	2.00632	0.2013284	2.1846980	20	1	8 days	0.53	Williams	2000 GF ₄₀
2000 GG ₄₀	16.0	0.15	20000406	322.69050	231.50244	21.77198	9.57645	0.1931312	2.7404723	28	1	7 days	0.37	E Williams	2000 GG ₄₀
2000 GH ₄₀	17.5	0.15	20000406	11.59970	23.44439	155.02629	0.73152	0.2724218	2.8653999	10	1	8 days	0.59	Williams	2000 GH ₄₀
2000 GJ ₄₀	14.6	0.15	20000317	273.44922	104.58145	198.86075	11.63885	0.1859805	2.6757440	41	1	31 days	0.45	Williams	2000 GJ ₄₀
2000 GL ₄₀	15.9	0.15	20000406	333.64155	41.49878	196.36810	6.05007	0.1903522	2.3820888	45	1	9 days	0.48	Williams	2000 GL ₄₀
2000 GQ ₄₀	14.1	0.15	20000406	320.60843	230.59378	17.89366	12.82258	0.1144961	2.6406493	30	1	5 days	0.30	E Williams	2000 GQ ₄₀
2000 GS ₄₀	14.7	0.15	20000406	44.17005	128.18558	18.70784	10.99500	0.0994896	2.6679597	28	1	5 days	0.57	E Williams	2000 GS ₄₀
2000 GT ₄₀	14.6	0.15	20000406	310.81216	243.25708	12.06925	3.29222	0.0677949	2.5971350	30	1	5 days	0.88	E Williams	2000 GT ₄₀
2000 GV ₄₀	16.2	0.15	20000406	185.09712	174.83125	201.34427	3.10018	0.1424547	2.4631768	12	1	7 days	0.41	E Williams	2000 GV ₄₀
2000 GA ₄₁	15.2	0.15	20000406	261.22544	104.36629	200.57010	8.31354	0.0525716	3.0636388	21	1	7 days	0.70	E Williams	2000 GA ₄₁
2000 GH ₄₁	13.5	0.15	20000406	205.02543	142.03437	219.69179	1.30644	0.1343321	2.8702127	19	1	3 days	0.47	E Williams	2000 GH ₄₁
2000 GJ ₄₁	14.3	0.15	20000406	301.58943	271.77690	19.34233	17.42861	0.2824024	2.8609331	21	1	5 days	0.57	E Williams	2000 GJ ₄₁
2000 GN ₄₁	14.9	0.15	20000406	160.50427	27.44661	9.49575	4.61773	0.0869069	2.3208160	25	1	5 days	0.54	E Williams	2000 GN ₄₁
2000 GP ₄₁	15.1	0.15	20000406	291.94861	297.77266	352.55820	2.06579	0.1922026	2.4415314	30	1	5 days	0.52	E Williams	2000 GP ₄₁
2000 GU ₄₁	15.2	0.15	20000406	358.41444	188.04154	14.07338	7.11747	0.1152911	2.3097830	28	1	8 days	0.34	Williams	2000 GU ₄₁
2000 GV ₄₁	15.6	0.15	20000406	307.64670	53.50872	206.57111	6.87869	0.0760261	2.3784665	28	1	8 days	0.49	Williams	2000 GV ₄₁
2000 GB ₄₂	15.4	0.15	20000406	320.90816	47.69923	206.84163	4.32149	0.1699015	2.7471437	14	1	8 days	0.48	Williams	2000 GB ₄₂
2000 GC ₄₂	16.0	0.15	20000406	14.53204	294.13071	238.27154	0.31118	0.2993340	2.6604697	12	1	8 days	0.60	Williams	2000 GC ₄₂
2000 GS ₄₂	13.4	0.15	20000406	240.69942	323.74088	9.46079	5.99472	0.1286646	2.4279593	20	1	3 days	0.36	E Williams	2000 GS ₄₂
2000 GY ₄₂	15.9	0.15	20000406	276.52889	107.41172	189.56401	1.73414	0.1144202	2.3872338	17	1	7 days	0.63	Williams	2000 GY ₄₂
2000 GA ₄₃	16.9	0.15	20000406	308.90324	87.41370	182.06076	1.25008	0.1769128	2.4498691	13	1	7 days	0.38	Williams	2000 GA ₄₃
2000 GB ₄₃	13.4	0.15	20000406	250.91952	312.97088	20.44164	5.91426	0.2364948	2.8202932	13	1	8 days	0.48	Williams	2000 GB ₄₃
2000 GJ ₄₃	18.5	0.15	20000406	358.25679	121.85979	80.38279	0.49886	0.2380755	2.5708147	11	1	8 days	0.89	Williams	2000 GJ ₄₃
2000 GK ₄₃	15.7	0.15	20000406	34.29472	321.20940	194.79199	6.86446	0.1348161	3.1333004	17	1	8 days	0.80	Williams	2000 GK ₄₃
2000 GN ₄₃	15.0	0.15	20000406	182.50546	341.03121	38.13027	3.34526	0.2451561	2.8434143	11	1	8 days	0.50	Williams	2000 GN ₄₃
2000 GO ₄₃	17.8	0.15	20000406	17.31772	139.88699	30.51382	1.41415	0.2499020	2.6126906	17	1	8 days	0.51	Williams	2000 GO ₄₃
2000 GP ₄₃	13.6	0.15	20000406	260.06119	125.57478	191.79472	4.67992	0.1519355	3.1975979	22	1	8 days	0.28	Williams	2000 GP ₄₃
2000 GQ ₄₃	15.1	0.15	20000406	263.05131	272.29427	40.01579	3.15783	0.1355301	2.6256232	31	1	8 days	0.53	Williams	2000 GQ ₄₃
2000 GR ₄₃	15.9	0.15	20000406	213.26831	222.48649	134.77535	0.86071	0.1888990	2.3918055	13	1	8 days	0.36	Williams	2000 GR ₄₃
2000 GS ₄₃	14.8	0.15	20000406	43.76777	336.32691	177.08966	1.48825	0.0449207	2.9129831	17	1	7 days	0.35	E Williams	2000 GS ₄₃
2000 GU ₄₃	16.7	0.15	20000406	296.18189	260.91298	28.04282	4.12144	0.2181651	2.5143941	12	1	7 days	0.40	E Williams	2000 GU ₄₃
2000 GV ₄₃	16.9	0.15	20000406	318.15055	241.60840	26.30882	7.36671	0.2633598	2.7816730	15	1	7 days	0.58	E Williams	2000 GV ₄₃
2000 GW ₄₃	15.0	0.15	20000406	337.65563	31.71534	196.23295	13.42629	0.0920491	3.2217901	21	1	8 days	0.58	Williams	2000 GW ₄₃
2000 GX ₄₃	16.3	0.15	20000406	22.99089	343.20992	190.34655	3.20582	0.0857584	2.5924831	13	1	7 days	0.48	Williams	2000 GX ₄₃
2000 GY ₄₃	16.5	0.15	20000406	272.71603	276.37035	30.61972	5.78880	0.1813753	2.3134108	25	1	10 days	0.43	Williams	2000 GY ₄₃
2000 GZ ₄₃	15.2	0.15	20000317	16.76681	347.57155	188.68990	8.17952	0.0678109	3.0644966	17	1	3 days	0.38	E Williams	2000 GZ ₄₃
2000 GA ₄₄	14.7	0.15	20000406	186.76333	350.16461	24.75176	14.88302	0.1738301	2.6095028	30	1	10 days	0.48	Williams	2000 GA ₄₄
2000 GD ₄₄	17.4	0.15	20000406	333.05969	199.14490	34.85248	2.89096	0.1281877	2.3598720	13	1	8 days	0.34	Williams	2000 GD ₄₄
2000 GF ₄₄	16.5	0.15	20000406	260.41241	295.53652	31.90235	5.74176	0.2739491	2.3590364	13	1	8 days	0.43	Williams	2000 GF ₄₄
2000 GN ₄₄	16.2	0.15	20000406	329.76226	219.67697	25.15870	14.08397	0.2045197	2.9221963	24	1	8 days	0.48	Williams	2000 GN ₄₄
2000 GP ₄₄	14.1	0.15	20000406	13.72442	17.68147	167.52421	2.13394	0.0537986	2.8938238	40	1	9 days	0.45	Williams	2000 GP ₄₄
2000 GS ₄₄	17.7	0.15	20000406	35.89195	350.37561	168.12268	1.92228	0.0738931	2.1621972	15	1	8 days	0.67	Williams	2000 GS ₄₄

2000 APR. 18

M.P.C. 40517

2000 GT ₄₄	14.2	0.15	20000406	338.48367	198.26054	29.62674	9.72890	0.1286423	2.8389482	19	1	5 days	0.76	E Williams	2000 GT ₄₄
2000 GU ₄₄	16.7	0.15	20000406	325.04812	87.84995	160.25597	2.53991	0.1830221	2.2794589	13	1	5 days	0.41	E Williams	2000 GU ₄₄
2000 GA ₄₅	15.3	0.15	20000317	20.06718	341.65876	179.76952	5.19989	0.2279796	2.9913503	17	1	4 days	0.67	E Williams	2000 GA ₄₅
2000 GD ₄₅	16.4	0.15	20000406	115.64522	249.41714	186.48717	5.02106	0.0899025	2.3077062	17	1	8 days	1.11	Williams	2000 GD ₄₅
2000 GE ₄₅	15.2	0.15	20000406	264.91719	260.22512	52.97850	3.09893	0.1622212	2.4234821	15	1	5 days	0.51	E Williams	2000 GE ₄₅
2000 GF ₄₅	16.3	0.15	20000406	10.42166	43.74570	143.62698	1.84073	0.1179686	3.0352200	13	1	8 days	0.35	Williams	2000 GF ₄₅
2000 GG ₄₅	14.6	0.15	20000406	83.54894	53.75611	34.48711	6.81658	0.2513572	2.3811671	19	1	5 days	0.38	E Williams	2000 GG ₄₅
2000 GH ₄₅	16.9	0.15	20000406	345.56215	189.91307	32.12294	8.10587	0.1998582	2.9109192	13	1	8 days	0.39	Williams	2000 GH ₄₅
2000 GJ ₄₅	15.4	0.15	20000406	173.41718	354.26563	31.28434	9.94113	0.1808792	2.7233127	12	1	8 days	0.32	Williams	2000 GJ ₄₅
2000 GK ₄₅	14.8	0.15	20000406	30.53521	342.12369	184.90457	5.57433	0.0495632	2.5850088	18	1	5 days	0.38	E Williams	2000 GK ₄₅
2000 GN ₄₅	15.1	0.15	20000406	273.18219	281.33335	35.19946	6.95989	0.2606277	2.4023860	13	1	5 days	0.46	E Williams	2000 GN ₄₅
2000 GO ₄₅	16.3	0.15	20000406	161.04340	254.17360	139.69111	1.91771	0.2159666	2.3780224	12	1	8 days	0.65	Williams	2000 GO ₄₅
2000 GP ₄₅	15.1	0.15	20000406	254.11976	284.50540	47.89739	3.30439	0.2594812	2.3285280	22	1	8 days	0.45	Williams	2000 GP ₄₅
2000 GQ ₄₅	14.8	0.15	20000406	297.53937	112.99189	158.87155	1.88929	0.0783997	2.9169027	16	1	8 days	0.41	Williams	2000 GQ ₄₅
2000 GS ₄₅	15.9	0.15	20000406	20.40922	348.27591	189.83686	6.09798	0.0483321	2.3827989	23	1	8 days	0.33	Williams	2000 GS ₄₅
2000 GT ₄₅	16.8	0.15	20000406	119.94529	226.83460	194.41891	6.27527	0.2380543	2.2762437	11	1	8 days	0.58	Williams	2000 GT ₄₅
2000 GV ₄₅	17.6	0.15	20000406	357.96450	178.11959	25.81227	10.11771	0.2867100	2.7350050	20	1	8 days	0.40	Williams	2000 GV ₄₅
2000 GW ₄₅	16.4	0.15	20000406	47.74031	105.15596	30.44525	4.21133	0.1755902	2.2986772	24	1	9 days	0.33	Williams	2000 GW ₄₅
2000 GA ₄₆	16.4	0.15	20000406	68.77043	72.78191	42.64100	2.40215	0.1481514	2.3073071	19	1	8 days	0.33	Williams	2000 GA ₄₆
2000 GL ₄₆	16.6	0.15	20000406	350.62582	356.81195	216.36646	0.85648	0.1573046	2.2385530	11	1	8 days	0.44	Williams	2000 GL ₄₆
2000 GN ₄₆	13.5	0.15	20000406	76.39077	270.85083	206.10010	4.78398	0.0759480	3.1070024	17	1	3 days	0.59	E Williams	2000 GN ₄₆
2000 GX ₄₆	15.9	0.15	20000406	39.62988	305.70122	202.23227	4.40310	0.1584709	2.3183426	24	1	6 days	0.60	E Williams	2000 GX ₄₆
2000 GZ ₄₆	15.1	0.15	20000406	246.79663	111.83388	207.38120	3.58677	0.0434441	2.1726141	24	1	5 days	0.52	E Williams	2000 GZ ₄₆
2000 GA ₄₇	13.4	0.15	20000406	103.40181	248.78790	202.15425	11.91409	0.0756589	2.9285711	23	1	5 days	0.42	E Williams	2000 GA ₄₇
2000 GF ₄₇	14.4	0.15	20000406	33.32243	219.01306	292.38420	0.83110	0.2209620	3.0841694	17	1	5 days	0.42	E Williams	2000 GF ₄₇
2000 GK ₄₇	13.7	0.15	20000406	321.87327	43.79285	212.88131	4.36906	0.1852946	3.2008648	20	1	3 days	0.49	E Williams	2000 GK ₄₇
2000 GM ₄₇	13.4	0.15	20000406	223.55420	0.08542	349.20501	1.46162	0.1393784	2.7307113	28	1	6 days	0.55	E Williams	2000 GM ₄₇
2000 GO ₄₇	15.8	0.15	20000406	341.24142	16.48796	209.40602	4.49418	0.1291119	2.2743725	19	1	3 days	1.03	E Williams	2000 GO ₄₇
2000 GF ₄₈	11.6	0.15	20000406	326.66615	227.75957	24.22823	12.56880	0.2023413	3.1964046	37	1	5 days	0.46	E Williams	2000 GF ₄₈
2000 GH ₄₈	14.8	0.15	20000406	42.73643	250.77803	256.65200	0.55420	0.1362735	2.6792194	24	1	5 days	0.54	E Williams	2000 GH ₄₈
2000 GJ ₄₈	14.9	0.15	20000406	248.46958	66.44547	267.10601	0.46702	0.2076410	2.1767532	17	1	5 days	0.93	E Williams	2000 GJ ₄₈
2000 GO ₄₈	12.6	0.15	20000406	137.12395	215.19416	203.86498	23.26947	0.1026462	3.0630066	22	1	5 days	0.40	E Williams	2000 GO ₄₈
2000 GT ₄₈	14.9	0.15	20000406	266.31237	297.39825	23.47416	8.56484	0.2201746	2.4204095	16	1	5 days	0.56	E Williams	2000 GT ₄₈
2000 GU ₄₈	13.0	0.15	20000406	263.70520	342.70846	329.35574	1.36684	0.1071864	2.9356368	27	1	5 days	0.55	E Williams	2000 GU ₄₈
2000 GV ₄₈	14.4	0.15	20000406	236.94864	125.58923	218.01544	2.68686	0.2116860	2.2402769	18	1	3 days	0.69	E Williams	2000 GV ₄₈
2000 GY ₄₈	17.3	0.15	20000317	16.38392	224.62662	303.11877	0.74058	0.2153693	2.3340055	12	1	2 days	0.32	E Williams	2000 GY ₄₈
2000 GA ₄₉	15.6	0.15	20000317	299.16678	80.29817	207.90736	8.45561	0.2600855	2.6598905	11	1	2 days	0.28	E Williams	2000 GA ₄₉
2000 GB ₄₉	15.6	0.15	20000406	25.23381	152.97941	13.92771	2.65560	0.1655364	2.3388599	22	1	5 days	0.60	E Williams	2000 GB ₄₉
2000 GC ₄₉	14.5	0.15	20000406	24.42409	292.38628	242.22242	0.97033	0.0813506	2.7628708	13	1	5 days	0.61	E Williams	2000 GC ₄₉
2000 GE ₄₉	16.5	0.15	20000406	1.50104	353.51941	206.01576	4.20712	0.1302565	2.0531595	21	1	5 days	0.46	E Williams	2000 GE ₄₉
2000 GG ₄₉	16.8	0.15	20000406	351.41696	346.96811	226.59754	0.57702	0.1362091	2.2739083	26	1	8 days	0.67	Williams	2000 GG ₄₉
2000 GK ₄₉	14.3	0.15	20000406	67.59099	128.18197	352.37446	1.05220	0.1451807	3.1506431	24	1	8 days	0.43	Williams	2000 GK ₄₉
2000 GP ₄₉	15.1	0.15	20000406	292.21293	89.98250	184.72543	2.90903	0.0377498	2.7902060	14	1	2 days	0.38	E Williams	2000 GP ₄₉
2000 GR ₄₉	14.9	0.15	20000406	282.06161	269.25654	35.70409	5.22745	0.2106048	2.7925526	14	1	2 days	0.35	E Williams	2000 GR ₄₉
2000 GU ₄₉	15.6	0.15	20000406	13.26407	34.31436	143.44959	0.52657	0.2820605	2.9826649	14	1	2 days	0.36	E Williams	2000 GU ₄₉
2000 GV ₄₉	16.8	0.15	20000406	13.15234	354.27020	191.31076	3.15605	0.0882957	2.0543937	14	1	2 days	0.38	E Williams	2000 GV ₄₉
2000 GW ₄₉	14.1	0.15	20000406	296.06175	264.80862	34.88920	3.87745	0.2882301	2.6065709	14	1	2 days	0.17	E Williams	2000 GW ₄₉
2000 GB ₅₀	15.9	0.15	20000406	264.09990	111.38719	194.60956	8.54611	0.0628727	2.4634219	13	1	2 days	0.75	E Williams	2000 GB ₅₀
2000 GC ₅₀	16.1	0.15	20000406	292.67313	110.79195	187.47574	2.59992	0.2432415	2.5049859	13	1	2 days	0.38	E Williams	2000 GC ₅₀
2000 GD ₅₀	16.3	0.15	20000406	218.07042	184.09990	164.09580	1.79936	0.0533862	2.2044995	14	1	2 days	0.59	E Williams	2000 GD ₅₀
2000 GE ₅₀	16.2	0.15	20000406	343.63753	194.20177	33.16189	3.87447	0.1892338	2.9587221	14	1	2 days	0.33	E Williams	2000 GE ₅₀
2000 GF ₅₀	15.7	0.15	20000406	326.03690	207.75208	33.57009	5.63510	0.0718558	2.2836607	12	1	5 days	0.45	E Williams	2000 GF ₅₀
2000 GQ ₅₀	14.0	0.15	20000406	323.51118	121.68070	133.15023	1.15256	0.2014928	2.4086280	14	1	2 days	0.31	E Williams	2000 GQ ₅₀

2000 GR ₅₀	15.5	0.15	20000406	22.50529	126.81200	36.10735	4.43471	0.2667253	3.0190999	12	1	2 days	0.24	E Williams	2000 GR ₅₀
2000 GV ₅₀	15.3	0.15	20000406	279.43339	262.40382	40.33493	3.88568	0.1718067	2.5659302	13	1	2 days	0.42	E Williams	2000 GV ₅₀
2000 GX ₅₀	14.8	0.15	20000406	30.59920	71.51984	81.59619	2.09036	0.2450807	3.1901756	14	1	2 days	0.52	E Williams	2000 GX ₅₀
2000 GC ₅₁	15.0	0.15	20000406	351.72829	32.84363	177.72287	4.51397	0.0902503	2.2225897	23	1	8 days	0.37	Williams	2000 GC ₅₁
2000 GO ₅₁	16.3	0.15	20000406	86.58401	330.52516	137.30243	2.25119	0.0636467	2.3089580	13	1	2 days	0.65	E Williams	2000 GO ₅₁
2000 GQ ₅₁	15.8	0.15	20000406	73.66957	330.87980	149.26218	2.33503	0.0802157	2.6952123	13	1	2 days	0.67	E Williams	2000 GQ ₅₁
2000 GT ₅₁	14.7	0.15	20000406	64.95493	69.32443	52.51873	3.65488	0.1456010	2.7741857	14	1	2 days	0.32	E Williams	2000 GT ₅₁
2000 GX ₅₁	14.2	0.15	20000406	282.45261	108.20246	195.24992	14.91868	0.1906443	3.1108170	22	1	4 days	0.56	E Williams	2000 GX ₅₁
2000 GY ₅₁	14.8	0.15	20000406	215.09721	165.99443	188.55394	6.32898	0.1081278	2.2531125	26	1	6 days	0.29	E Williams	2000 GY ₅₁
2000 GZ ₅₁	15.3	0.15	20000406	125.98847	260.92683	167.92585	3.49447	0.0965011	2.3604471	26	1	4 days	0.47	E Williams	2000 GZ ₅₁
2000 GA ₅₂	15.5	0.15	20000406	279.56835	258.01423	40.32865	5.13736	0.1274023	2.5105325	14	1	2 days	0.47	E Williams	2000 GA ₅₂
2000 GB ₅₂	14.4	0.15	20000406	48.24443	108.15551	35.46703	6.42797	0.1153756	2.3897059	18	1	5 days	0.55	E Williams	2000 GB ₅₂
2000 GD ₅₂	14.2	0.15	20000406	214.71534	316.83746	39.32305	6.15200	0.1335534	2.1761463	26	1	6 days	0.38	E Williams	2000 GD ₅₂
2000 GF ₅₂	13.4	0.15	20000406	9.77676	164.59474	21.87827	4.22448	0.2416653	3.0176749	27	1	5 days	0.31	E Williams	2000 GF ₅₂
2000 GK ₅₂	14.6	0.15	20000406	268.26476	279.78576	27.27194	7.06884	0.1096244	2.3677518	22	1	2 days	0.69	E Williams	2000 GK ₅₂
2000 GP ₅₂	15.9	0.15	20000406	354.67746	14.11390	195.59448	1.77417	0.1547400	2.3357936	28	1	5 days	0.53	E Williams	2000 GP ₅₂
2000 GU ₅₂	13.1	0.15	20000406	231.85332	320.85031	19.38821	11.75269	0.0822974	3.1693400	13	1	5 days	0.56	E Williams	2000 GU ₅₂
2000 GV ₅₂	14.1	0.15	20000317	237.71802	322.21512	20.08171	13.38356	0.2082466	3.0816318	21	1	12 days	0.56	Williams	2000 GV ₅₂
2000 GW ₅₂	14.9	0.15	20000406	319.88566	241.80043	7.71342	4.16786	0.0773596	2.3155148	32	1	8 days	0.41	Williams	2000 GW ₅₂
2000 GZ ₅₂	14.0	0.15	20000406	348.56705	199.79591	18.89672	12.21919	0.0910295	3.0598696	14	1	8 days	0.58	Williams	2000 GZ ₅₂
2000 GC ₅₃	15.8	0.15	20000406	52.46639	135.47836	353.94420	1.42686	0.2085440	2.5337452	14	1	2 days	0.50	E Williams	2000 GC ₅₃
2000 GD ₅₃	16.9	0.15	20000406	316.24837	54.35322	215.54033	4.33354	0.2349607	2.3157603	19	1	5 days	0.41	E Williams	2000 GD ₅₃
2000 GG ₅₃	14.4	0.15	20000406	39.94289	207.41069	312.31473	0.60033	0.0641047	3.0789184	26	1	10 days	0.49	Williams	2000 GG ₅₃
2000 GH ₅₃	14.6	0.15	20000406	257.42818	113.72708	208.75467	6.09964	0.1465663	2.5779017	14	1	2 days	0.40	E Williams	2000 GH ₅₃
2000 GJ ₅₃	17.4	0.15	20000406	36.25391	125.09178	19.69625	3.92377	0.2393063	2.1152933	14	1	2 days	0.71	E Williams	2000 GJ ₅₃
2000 GQ ₅₃	16.3	0.15	20000406	28.43299	315.09419	199.88328	2.94242	0.2668471	2.7311361	14	1	2 days	0.55	E Williams	2000 GQ ₅₃
2000 GR ₅₃	15.2	0.15	20000406	275.02055	283.88757	30.54635	1.67810	0.2206433	2.4325444	15	1	7 days	0.40	Williams	2000 GR ₅₃
2000 GU ₅₃	14.5	0.15	20000406	268.21460	109.64762	195.42784	10.20086	0.0793675	2.9611311	14	1	2 days	0.35	E Williams	2000 GU ₅₃
2000 GW ₅₃	15.4	0.15	20000406	71.40812	80.91967	45.56757	3.51208	0.0561832	2.8304554	13	1	2 days	0.58	E Williams	2000 GW ₅₃
2000 GX ₅₃	14.2	0.15	20000406	198.32131	173.31553	197.62234	12.46809	0.1581314	2.5052896	14	1	2 days	0.33	E Williams	2000 GX ₅₃
2000 GY ₅₃	14.9	0.15	20000406	231.46879	191.44895	145.49612	1.70332	0.0455508	2.7407920	13	1	2 days	0.36	E Williams	2000 GY ₅₃
2000 GZ ₅₃	15.4	0.15	20000406	301.69898	255.20356	30.11388	4.00482	0.2120837	2.4891543	14	1	2 days	0.26	E Williams	2000 GZ ₅₃
2000 GB ₅₄	16.3	0.15	20000406	264.85876	117.13187	192.63368	3.83401	0.0943179	2.4117339	14	1	2 days	0.58	E Williams	2000 GB ₅₄
2000 GC ₅₄	14.9	0.15	20000406	246.03782	127.30063	197.96660	4.42964	0.0683646	2.4868570	14	1	2 days	0.25	E Williams	2000 GC ₅₄
2000 GH ₅₄	14.1	0.15	20000406	5.35742	170.99516	28.28342	11.84944	0.0552957	3.1843358	13	1	2 days	0.51	E Williams	2000 GH ₅₄
2000 GK ₅₄	15.4	0.15	20000406	310.00906	93.22982	189.24536	2.10114	0.2572801	3.0292832	14	1	2 days	0.54	E Williams	2000 GK ₅₄
2000 GL ₅₄	15.1	0.15	20000406	315.58941	231.22860	32.45251	5.75729	0.1574271	2.8072599	14	1	2 days	0.43	E Williams	2000 GL ₅₄
2000 GM ₅₄	16.4	0.15	20000406	337.87533	195.49969	37.46828	1.93575	0.1392639	2.3564186	14	1	2 days	0.42	E Williams	2000 GM ₅₄
2000 GN ₅₄	14.0	0.15	20000406	294.39682	272.26919	31.00846	10.47329	0.2776835	3.1513823	14	1	2 days	0.82	E Williams	2000 GN ₅₄
2000 GP ₅₄	14.1	0.15	20000406	60.94551	217.67233	271.60800	0.89157	0.1408115	3.0756819	20	1	4 days	0.67	E Williams	2000 GP ₅₄
2000 GQ ₅₄	17.1	0.15	20000406	269.05033	100.38955	209.79372	7.29556	0.1286090	2.4735280	13	1	2 days	0.36	E Williams	2000 GQ ₅₄
2000 GR ₅₄	16.0	0.15	20000406	251.42948	309.89475	20.61123	7.18246	0.1680012	2.3694318	20	1	3 days	0.49	E Williams	2000 GR ₅₄
2000 GS ₅₄	14.7	0.15	20000406	182.30371	22.11745	2.39643	2.40384	0.1007045	2.9573347	16	1	6 days	0.39	E Williams	2000 GS ₅₄
2000 GT ₅₄	15.7	0.15	20000406	311.84206	259.42374	8.55781	2.77838	0.1625490	2.3054265	23	1	6 days	0.44	E Williams	2000 GT ₅₄
2000 GU ₅₄	17.1	0.15	20000317	330.87645	216.35481	18.44987	6.16399	0.1321664	2.3652590	27	1	13 days	0.47	Williams	2000 GU ₅₄
2000 GV ₅₄	15.1	0.15	20000406	231.18675	332.49036	20.66049	9.16845	0.2396129	2.7929329	14	1	6 days	0.41	E Williams	2000 GV ₅₄
2000 GW ₅₄	16.5	0.15	20000406	58.25101	283.44204	208.25228	4.69305	0.1360062	2.3127156	18	1	2 days	0.51	E Williams	2000 GW ₅₄
2000 GX ₅₄	16.2	0.15	20000406	64.50646	99.22787	22.34047	4.03663	0.1714028	2.8333826	12	1	3 days	0.51	E Williams	2000 GX ₅₄
2000 GC ₅₅	17.8	0.15	20000406	24.28121	132.33843	29.83063	2.25520	0.2454019	2.0947651	14	1	2 days	0.89	E Williams	2000 GC ₅₅
2000 GD ₅₅	16.7	0.15	20000406	281.45751	281.22418	24.31922	4.24586	0.1880409	2.5010755	13	1	3 days	0.23	E Williams	2000 GD ₅₅
2000 GE ₅₅	15.1	0.15	20000406	316.18316	69.03148	205.78356	6.45539	0.2550619	3.0729512	14	1	2 days	0.35	E Williams	2000 GE ₅₅
2000 GG ₅₅	17.6	0.15	20000406	30.89042	313.78731	203.46403	2.01648	0.2036331	2.1659311	26	1	3 days	0.44	E Williams	2000 GG ₅₅
2000 GH ₅₅	14.7	0.15	20000406	255.46629	135.33946	201.19492	6.49964	0.2691476	2.2462171	14	1	2 days	0.37	E Williams	2000 GH ₅₅

2000 APR. 18

M.P.C. 40519

2000 GL ₅₅	16.4	0.15	20000406	268.34787	138.24182	160.16012	2.43168	0.0208453	2.4150228	13	1	2 days	0.75	E Williams	2000 GL ₅₅
2000 GM ₅₅	14.1	0.15	20000406	267.44029	111.89520	199.19736	12.43045	0.1120042	3.0334767	14	1	2 days	0.43	E Williams	2000 GM ₅₅
2000 GR ₅₅	15.5	0.15	20000406	278.59345	242.50060	56.74863	2.87472	0.1136110	2.5130241	14	1	2 days	0.32	E Williams	2000 GR ₅₅
2000 GS ₅₅	15.8	0.15	20000406	343.98600	36.11185	186.66690	5.17972	0.0861449	2.2425543	14	1	2 days	0.29	E Williams	2000 GS ₅₅
2000 GT ₅₅	15.9	0.15	20000406	4.94796	16.45164	181.65237	3.23054	0.1277112	2.6211978	14	1	2 days	0.33	E Williams	2000 GT ₅₅
2000 GV ₅₅	14.4	0.15	20000406	251.74063	133.80488	184.76197	5.58558	0.0566021	2.6703702	14	1	2 days	0.31	E Williams	2000 GV ₅₅
2000 GW ₅₅	15.5	0.15	20000406	10.61928	90.61870	94.55928	1.71173	0.2453154	2.8764761	14	1	2 days	0.41	E Williams	2000 GW ₅₅
2000 GC ₅₆	14.6	0.15	20000406	36.98440	122.45982	36.09429	9.62469	0.1083061	2.7448050	14	1	2 days	0.26	E Williams	2000 GC ₅₆
2000 GD ₅₆	16.6	0.15	20000406	22.95884	52.65751	116.15840	2.02447	0.1979852	2.5887619	14	1	2 days	0.43	E Williams	2000 GD ₅₆
2000 GE ₅₆	14.0	0.15	20000406	242.94523	293.80700	32.94129	17.78733	0.0505916	3.0963360	26	1	8 days	0.41	Williams	2000 GE ₅₆
2000 GF ₅₆	16.4	0.15	20000406	1.56183	11.52919	190.90664	8.52463	0.1480977	3.0604436	11	1	7 days	0.53	Williams	2000 GF ₅₆
2000 GG ₅₆	14.2	0.15	20000406	77.31043	334.61414	142.29489	2.71255	0.0936909	2.9631255	24	1	7 days	0.32	Williams	2000 GG ₅₆
2000 GH ₅₆	13.8	0.15	20000406	349.25085	33.18805	183.11649	5.62510	0.0897926	2.3114772	25	1	7 days	0.28	Williams	2000 GH ₅₆
2000 GK ₅₆	15.8	0.15	20000406	312.49149	106.71911	174.88552	1.38920	0.2772943	2.8829626	13	1	2 days	0.71	E Williams	2000 GK ₅₆
2000 GM ₅₆	15.3	0.15	20000406	273.58364	280.25273	30.49763	8.41401	0.1776928	2.1897171	18	1	2 days	0.25	E Williams	2000 GM ₅₆
2000 GN ₅₆	16.7	0.15	20000406	312.37132	246.96723	30.74608	7.43642	0.2487144	2.5901190	13	1	2 days	0.74	E Williams	2000 GN ₅₆
2000 GP ₅₆	14.4	0.15	20000406	264.50703	141.13172	176.66001	1.85509	0.1451832	2.9595240	18	1	2 days	0.69	E Williams	2000 GP ₅₆
2000 GS ₅₆	15.7	0.15	20000406	274.01407	268.05478	43.81905	3.72463	0.1840349	2.4007220	14	1	2 days	0.42	E Williams	2000 GS ₅₆
2000 GT ₅₆	15.2	0.15	20000406	288.22581	91.91526	187.49125	2.30858	0.0270334	2.2555553	14	1	2 days	0.29	E Williams	2000 GT ₅₆
2000 GV ₅₆	15.5	0.15	20000406	319.01759	58.32462	197.25966	5.63518	0.1148219	2.4397371	14	1	2 days	0.44	E Williams	2000 GV ₅₆
2000 GY ₅₆	14.6	0.15	20000406	283.24527	267.84596	28.82561	18.53746	0.1202934	2.7144301	14	1	2 days	0.47	E Williams	2000 GY ₅₆
2000 GZ ₅₆	15.2	0.15	20000406	77.00589	111.40362	8.65400	1.02605	0.0831199	3.0607203	11	1	2 days	0.38	E Williams	2000 GZ ₅₆
2000 GB ₅₇	15.0	0.15	20000406	9.26594	317.43164	238.34769	1.01355	0.0509019	2.8516488	19	1	8 days	0.44	Williams	2000 GB ₅₇
2000 GC ₅₇	15.5	0.15	20000406	271.06301	290.73897	9.85817	1.95122	0.0496230	2.6556497	28	1	8 days	0.63	Williams	2000 GC ₅₇
2000 GD ₅₇	15.2	0.15	20000406	293.64418	73.45267	219.45525	2.03056	0.1864782	2.5529159	25	1	8 days	0.83	Williams	2000 GD ₅₇
2000 GE ₅₇	16.5	0.15	20000406	1.72597	355.71045	207.26468	4.91679	0.0645714	2.4415937	21	1	3 days	0.61	E Williams	2000 GE ₅₇
2000 GF ₅₇	14.3	0.15	20000406	149.42532	203.89818	207.89057	25.91681	0.1157895	3.1942748	21	1	3 days	0.63	E Williams	2000 GF ₅₇
2000 GG ₅₇	15.4	0.15	20000406	38.57713	297.33817	219.85678	1.23508	0.1183420	2.6093341	30	1	4 days	0.42	E Williams	2000 GG ₅₇
2000 GH ₅₇	15.3	0.15	20000406	257.93587	108.71863	223.53468	1.80694	0.2272881	2.7590724	15	1	8 days	0.37	Williams	2000 GH ₅₇
2000 GJ ₅₇	16.4	0.15	20000406	55.04684	289.09000	209.50274	3.25006	0.1094903	2.2602432	34	1	4 days	0.75	E Williams	2000 GJ ₅₇
2000 GK ₅₇	16.7	0.15	20000406	52.47980	275.61100	211.90632	6.19731	0.2406930	2.7543378	15	1	8 days	0.56	Williams	2000 GK ₅₇
2000 GM ₅₇	16.4	0.15	20000406	5.51232	342.55266	214.48253	2.04432	0.1448343	2.3627791	38	1	8 days	0.47	Williams	2000 GM ₅₇
2000 GN ₅₇	16.0	0.15	20000406	255.34610	305.44829	25.34933	7.82135	0.1975430	2.3338886	21	1	8 days	0.52	Williams	2000 GN ₅₇
2000 GO ₅₇	14.8	0.15	20000406	310.86847	291.14927	345.86715	0.83083	0.2169290	2.5396645	23	1	6 days	0.39	E Williams	2000 GO ₅₇
2000 GP ₅₇	16.5	0.15	20000406	320.68605	252.78545	15.61161	2.33129	0.2650994	2.2522075	21	1	6 days	0.39	E Williams	2000 GP ₅₇
2000 GQ ₅₇	15.4	0.15	20000406	274.35249	89.99602	210.05434	9.71802	0.0597464	3.1043021	15	1	8 days	0.48	Williams	2000 GQ ₅₇
2000 GR ₅₇	14.5	0.15	20000406	308.62733	64.40166	210.88100	14.17067	0.1818067	2.7280446	17	1	7 days	0.54	Williams	2000 GR ₅₇
2000 GX ₅₇	14.0	0.15	20000406	278.79160	92.33054	212.01275	10.97585	0.1426529	2.9923837	22	1	6 days	0.85	E Williams	2000 GX ₅₇
2000 GY ₅₇	13.6	0.15	20000406	50.12310	270.26547	229.54145	3.12691	0.1667018	3.0861109	17	1	7 days	0.42	Williams	2000 GY ₅₇
2000 GA ₅₈	16.3	0.15	20000406	182.35645	135.04326	249.34198	1.26758	0.1884195	2.1717852	13	1	6 days	0.45	E Williams	2000 GA ₅₈
2000 GC ₅₈	12.9	0.15	20000406	170.61211	16.05172	18.01476	9.18990	0.1154249	2.3026305	23	1	7 days	0.35	Williams	2000 GC ₅₈
2000 GH ₅₈	17.8	0.15	20000406	16.38022	329.52294	205.44881	11.28182	0.2664957	2.3279075	13	1	2 days	0.49	E Williams	2000 GH ₅₈
2000 GK ₅₈	14.3	0.15	20000406	312.44489	245.58669	20.79658	9.88320	0.1230835	2.8196501	23	1	8 days	0.32	Williams	2000 GK ₅₈
2000 GQ ₅₈	16.0	0.15	20000317	277.21306	107.37557	195.16682	2.35423	0.1834529	2.1942139	25	1	6 days	0.41	E Williams	2000 GQ ₅₈
2000 GR ₅₈	15.3	0.15	20000406	57.81996	76.15241	42.10003	2.07181	0.2594294	2.5033615	14	1	2 days	0.41	E Williams	2000 GR ₅₈
2000 GT ₅₈	14.9	0.15	20000406	48.32504	124.31605	27.74739	11.74643	0.0675015	2.9531946	32	1	10 days	0.54	Williams	2000 GT ₅₈
2000 GV ₅₈	16.3	0.15	20000317	294.38734	268.43232	29.23553	5.68756	0.2699393	2.6749399	14	1	6 days	1.05	E Williams	2000 GV ₅₈
2000 GX ₅₈	17.1	0.15	20000406	313.86748	235.48073	30.15499	2.25927	0.1506604	2.5100618	19	1	7 days	0.64	Williams	2000 GX ₅₈
2000 GA ₅₉	15.8	0.15	20000317	40.86091	309.21398	198.23566	3.82180	0.1217209	2.3283784	26	1	6 days	0.37	E Williams	2000 GA ₅₉
2000 GB ₅₉	14.7	0.15	20000406	130.82832	35.59882	28.60913	14.02033	0.1602972	2.6705883	42	1	10 days	0.53	Williams	2000 GB ₅₉
2000 GC ₅₉	14.5	0.15	20000406	252.02406	279.47635	51.53572	1.00283	0.1626929	2.4393071	30	1	4 days	0.53	E Williams	2000 GC ₅₉
2000 GD ₅₉	16.8	0.15	20000406	32.82465	113.87956	41.19211	2.35963	0.2114530	2.3234462	14	1	2 days	0.59	E Williams	2000 GD ₅₉
2000 GE ₅₉	14.3	0.15	20000406	285.73224	265.03198	45.16062	3.26146	0.2480429	2.9404782	14	1	2 days	0.33	E Williams	2000 GE ₅₉

2000 GG ₅₉	15.2	0.15	20000406	45.17346	310.78722	186.44134	5.22188	0.2367326	3.1416063	14	1	2 days	0.54	E Williams	2000 GG ₅₉
2000 GJ ₅₉	15.4	0.15	20000406	307.27391	219.32347	59.81237	3.09024	0.1978661	2.8949101	14	1	2 days	0.50	E Williams	2000 GJ ₅₉
2000 GL ₅₉	16.3	0.15	20000406	25.75184	344.07853	186.51211	5.31700	0.1298642	2.2011489	14	1	2 days	0.39	E Williams	2000 GL ₅₉
2000 GM ₅₉	13.4	0.15	20000406	139.52285	352.79751	65.35363	3.20675	0.1451385	2.9300887	14	1	2 days	0.23	E Williams	2000 GM ₅₉
2000 GN ₅₉	14.4	0.15	20000406	88.99321	276.60819	197.45041	11.61182	0.0347196	2.9393979	17	1	7 days	0.34	Williams	2000 GN ₅₉
2000 GP ₅₉	15.9	0.15	20000406	49.84160	88.11124	39.01623	5.56685	0.2645937	2.6064703	14	1	2 days	0.53	E Williams	2000 GP ₅₉
2000 GS ₅₉	15.2	0.15	20000406	20.44584	133.54343	50.53165	2.48589	0.0404073	2.6929030	24	1	8 days	0.42	Williams	2000 GS ₅₉
2000 GU ₅₉	15.5	0.15	20000406	22.90105	44.58786	131.48373	1.08390	0.1295947	2.6246780	19	1	7 days	0.44	Williams	2000 GU ₅₉
2000 GW ₅₉	14.8	0.15	20000406	74.87284	336.25757	134.02368	1.69107	0.1960362	3.1599885	13	1	2 days	0.49	E Williams	2000 GW ₅₉
2000 GZ ₅₉	15.1	0.15	20000406	192.77761	222.08937	154.14521	2.03180	0.1207747	2.1931165	13	1	7 days	0.35	Williams	2000 GZ ₅₉
2000 GA ₆₀	14.3	0.15	20000406	321.25411	73.68495	192.93740	6.06801	0.2331304	3.0261925	13	1	2 days	0.36	E Williams	2000 GA ₆₀
2000 GB ₆₀	14.6	0.15	20000406	51.25424	352.38666	148.22925	1.63489	0.1575719	3.2253732	14	1	2 days	0.59	E Williams	2000 GB ₆₀
2000 GC ₆₀	14.1	0.15	20000406	256.04359	240.12610	98.66231	1.83776	0.2847285	2.2994442	16	1	7 days	0.70	Williams	2000 GC ₆₀
2000 GD ₆₀	16.7	0.15	20000406	328.16947	225.08531	19.64978	2.18076	0.1125944	2.2996443	23	1	7 days	0.54	Williams	2000 GD ₆₀
2000 GE ₆₀	16.3	0.15	20000406	301.43095	271.24895	22.68229	3.37802	0.2589130	2.6074166	17	1	2 days	0.74	E Williams	2000 GE ₆₀
2000 GF ₆₀	16.9	0.15	20000406	254.10271	301.09651	25.95363	6.66123	0.1430843	2.2835674	16	1	8 days	0.58	Williams	2000 GF ₆₀
2000 GH ₆₀	17.7	0.15	20000406	46.16402	119.49413	24.58007	2.60985	0.1614523	2.3925351	15	1	8 days	0.44	Williams	2000 GH ₆₀
2000 GJ ₆₀	14.7	0.15	20000406	267.62430	122.03802	200.92496	2.19274	0.2101685	2.7113466	21	1	3 days	0.39	E Williams	2000 GJ ₆₀
2000 GN ₆₀	14.4	0.15	20000406	340.38399	206.55563	26.24016	12.17369	0.1254216	3.0859409	13	1	8 days	0.27	Williams	2000 GN ₆₀
2000 GO ₆₀	16.1	0.15	20000406	334.73508	32.59060	204.69995	6.01797	0.0959603	2.6319467	21	1	2 days	0.59	E Williams	2000 GO ₆₀
2000 GP ₆₀	15.0	0.15	20000406	98.18357	255.30125	206.04003	6.72269	0.0746769	2.7018751	27	1	8 days	0.61	Williams	2000 GP ₆₀
2000 GQ ₆₀	13.9	0.15	20000406	240.19702	322.88330	30.80196	7.92440	0.3073626	2.7818200	23	1	8 days	0.43	Williams	2000 GQ ₆₀
2000 GR ₆₀	16.2	0.15	20000406	328.65869	224.59228	27.24688	11.86145	0.1957610	2.5161621	26	1	6 days	0.77	E Williams	2000 GR ₆₀
2000 GS ₆₀	15.8	0.15	20000406	308.31185	70.40932	201.55905	4.82082	0.1293451	2.7783304	16	1	2 days	0.72	E Williams	2000 GS ₆₀
2000 GT ₆₀	15.1	0.15	20000406	174.96560	206.79443	185.09691	1.38858	0.0944895	2.4637356	28	1	15 days	0.62	Williams	2000 GT ₆₀
2000 GW ₆₀	16.8	0.15	20000406	196.96626	343.56540	25.00621	3.95261	0.2417400	2.1644998	11	1	8 days	0.49	Williams	2000 GW ₆₀
2000 GX ₆₀	16.9	0.15	20000406	289.46150	270.60552	26.36918	4.20459	0.2327824	2.6581126	12	1	8 days	0.42	Williams	2000 GX ₆₀
2000 GZ ₆₀	16.4	0.15	20000406	55.64684	62.74599	56.20887	1.03822	0.2368374	3.2123104	11	1	8 days	0.40	Williams	2000 GZ ₆₀
2000 GA ₆₁	17.6	0.15	20000406	1.39589	160.45806	37.38533	4.57884	0.1224239	2.7977571	13	1	8 days	0.49	Williams	2000 GA ₆₁
2000 GB ₆₁	17.4	0.15	20000406	336.42395	188.60955	42.78981	2.46726	0.1534659	2.1557425	29	1	8 days	0.66	Williams	2000 GB ₆₁
2000 GE ₆₁	16.7	0.15	20000406	85.13875	56.35210	47.08765	3.20686	0.1073617	2.3096380	12	1	8 days	0.59	Williams	2000 GE ₆₁
2000 GX ₆₁	14.2	0.15	20000406	65.29046	288.05525	197.65908	11.31724	0.1152785	3.2181444	12	1	2 days	0.47	E Williams	2000 GX ₆₁
2000 GB ₆₂	14.0	0.15	20000406	252.01395	264.41515	54.23693	3.83153	0.0688674	2.6582162	13	1	2 days	0.25	E Williams	2000 GB ₆₂
2000 GC ₆₂	13.8	0.15	20000317	244.31865	313.64435	11.62700	6.67485	0.1056427	2.3961813	37	1	32 days	0.51	Williams	2000 GC ₆₂
2000 GL ₆₂	16.8	0.15	20000406	6.46130	342.44311	213.24123	6.28595	0.1649535	3.0366243	12	1	2 days	0.72	E Williams	2000 GL ₆₂
2000 GM ₆₂	17.3	0.15	20000406	306.55161	64.16976	216.30384	4.20895	0.2145540	2.4465458	12	1	2 days	0.50	E Williams	2000 GM ₆₂
2000 GN ₆₂	17.6	0.15	20000406	264.65901	80.75428	238.88463	1.00099	0.1812959	2.2244512	11	1	2 days	0.32	E Williams	2000 GN ₆₂
2000 GP ₆₂	15.4	0.15	20000406	259.66193	305.40365	23.00228	14.60640	0.2043094	3.0081662	15	1	6 days	0.63	E Williams	2000 GP ₆₂
2000 GQ ₆₂	15.0	0.15	20000406	311.03988	354.66900	288.50211	0.41215	0.2694675	3.1360119	13	1	2 days	0.56	E Williams	2000 GQ ₆₂
2000 GR ₆₂	15.9	0.15	20000406	65.78769	271.69877	210.24144	4.04333	0.1544265	2.4265123	30	1	4 days	0.85	E Williams	2000 GR ₆₂
2000 GS ₆₂	16.0	0.15	20000406	294.72861	75.31343	217.95957	0.36026	0.1939825	3.2381046	10	1	3 days	0.35	E Williams	2000 GS ₆₂
2000 GY ₆₂	17.4	0.15	20000406	17.96787	112.17088	58.87052	3.63267	0.2811428	3.0606669	11	1	7 days	0.50	Williams	2000 GY ₆₂
2000 GG ₆₃	14.2	0.15	20000406	314.47665	236.26413	21.49341	12.58247	0.0629462	2.8544748	12	1	7 days	0.46	Williams	2000 GG ₆₃
2000 GU ₆₃	16.6	0.15	20000406	27.21301	290.99057	231.75237	0.28031	0.2391732	3.0797817	18	1	8 days	0.44	Williams	2000 GU ₆₃
2000 GV ₆₃	15.0	0.15	20000406	243.91121	320.06135	28.42029	12.78223	0.2696509	3.1177397	12	1	6 days	0.45	E Williams	2000 GV ₆₃
2000 GW ₆₃	17.9	0.15	20000406	320.96730	45.50060	210.43026	1.81916	0.1392840	2.2643475	17	1	8 days	0.61	Williams	2000 GW ₆₃
2000 GY ₆₃	16.6	0.15	20000406	342.53929	198.59855	29.58588	4.64152	0.1006349	2.7041808	14	1	8 days	0.49	Williams	2000 GY ₆₃
2000 GZ ₆₃	14.9	0.15	20000406	65.93031	283.99543	206.62925	9.25145	0.1050638	2.9881712	15	1	2 days	0.53	E Williams	2000 GZ ₆₃
2000 GA ₆₄	17.0	0.15	20000406	272.07548	290.26488	20.02234	4.94672	0.2042649	2.5785327	11	1	7 days	0.62	E Williams	2000 GA ₆₄
2000 GC ₆₄	17.0	0.15	20000406	128.77727	23.77285	38.70329	3.24232	0.1106664	2.3317928	11	1	8 days	0.46	Williams	2000 GC ₆₄
2000 GF ₆₄	15.5	0.15	20000406	267.49221	248.30105	57.11820	3.00990	0.1096655	2.4821517	12	1	5 days	0.71	E Williams	2000 GF ₆₄
2000 GL ₆₄	17.6	0.15	20000406	24.68047	171.72706	359.31069	1.07317	0.1496522	2.4763353	16	1	8 days	0.61	Williams	2000 GL ₆₄
2000 GM ₆₄	17.6	0.15	20000406	306.60511	271.59573	18.62433	3.78497	0.2813045	2.6813916	10	1	6 days	0.48	E Williams	2000 GM ₆₄

2000 APR. 18

M.P.C. 40521

2000 GN ₆₄	15.1	0.15	20000406	235.54366	276.37979	57.16771	3.42253	0.0338838	2.7984199	10	1	2 days	0.67	E	Williams	2000 GN ₆₄
2000 GO ₆₄	14.3	0.15	20000406	79.26366	329.16852	145.72350	14.99733	0.1215065	2.5098794	13	1	8 days	0.44		Williams	2000 GO ₆₄
2000 GP ₆₄	16.8	0.15	20000406	334.99293	43.88342	192.99309	4.03242	0.1243068	2.2551182	13	1	2 days	0.45	E	Williams	2000 GP ₆₄
2000 GS ₆₄	15.8	0.15	20000406	348.27874	189.69122	30.12275	6.06648	0.0800580	2.3998459	13	1	2 days	0.28	E	Williams	2000 GS ₆₄
2000 GT ₆₄	15.3	0.15	20000406	350.26011	192.05436	28.41858	15.86355	0.1984271	2.6807174	28	1	10 days	0.28		Williams	2000 GT ₆₄
2000 GV ₆₄	15.5	0.15	20000406	24.59392	330.41147	203.28663	11.08545	0.1387684	2.4868149	12	1	2 days	0.30	E	Williams	2000 GV ₆₄
2000 GW ₆₄	13.8	0.15	20000406	339.65261	201.48654	30.41354	14.16397	0.1135139	2.6286874	25	1	10 days	0.40		Williams	2000 GW ₆₄
2000 GZ ₆₄	16.4	0.15	20000317	281.43073	278.11592	32.70451	6.71079	0.2702812	2.3393797	23	1	6 days	0.34	E	Williams	2000 GZ ₆₄
2000 GB ₆₅	15.2	0.15	20000317	334.27540	29.60864	203.12608	13.03616	0.1076322	2.5820373	25	1	30 days	0.36		Williams	2000 GB ₆₅
2000 GC ₆₅	16.6	0.15	20000406	2.10474	112.71085	89.46801	1.08808	0.1535399	2.3020458	15	1	10 days	0.28		Williams	2000 GC ₆₅
2000 GF ₆₅	13.2	0.15	20000406	66.61287	62.89862	49.71746	4.77811	0.2447694	2.7367868	17	1	8 days	0.31		Williams	2000 GF ₆₅
2000 GH ₆₅	12.7	0.15	20000406	295.72426	216.89711	81.56025	2.13520	0.2257011	3.2524573	16	1	8 days	0.81		Williams	2000 GH ₆₅
2000 GN ₆₅	13.2	0.15	20000406	82.21728	11.18310	105.24897	2.29112	0.0880974	3.0949098	12	1	8 days	0.59		Williams	2000 GN ₆₅
2000 GO ₆₅	17.1	0.15	20000406	33.25780	133.41647	19.47673	0.26201	0.2403547	2.4316924	16	1	8 days	0.66		Williams	2000 GO ₆₅
2000 GP ₆₅	16.0	0.15	20000406	98.32111	253.81462	207.59653	10.38532	0.0793392	2.7791908	14	1	8 days	0.50		Williams	2000 GP ₆₅
2000 GQ ₆₅	14.6	0.15	20000406	338.44500	31.07280	207.27306	18.71975	0.1735641	2.9375628	20	1	3 days	0.60	E	Williams	2000 GQ ₆₅
2000 GR ₆₅	14.8	0.15	20000406	85.54397	250.73981	207.35714	11.14492	0.2238337	2.8629127	15	1	2 days	0.49	E	Williams	2000 GR ₆₅
2000 GU ₆₅	16.5	0.15	20000406	269.11812	274.02058	46.19904	0.66633	0.1940048	2.3438692	19	1	8 days	0.42		Williams	2000 GU ₆₅
2000 GV ₆₅	15.9	0.15	20000406	338.59393	201.84831	31.35050	3.59102	0.1184633	2.2403357	26	1	8 days	0.32		Williams	2000 GV ₆₅
2000 GW ₆₅	16.3	0.15	20000406	16.62956	350.61305	195.12829	2.47247	0.1254530	2.5674809	18	1	3 days	0.46	E	Williams	2000 GW ₆₅
2000 GX ₆₅	14.3	0.15	20000406	51.83916	306.14057	183.49057	1.69762	0.2562358	3.2065382	22	1	3 days	0.83	E	Williams	2000 GX ₆₅
2000 GZ ₆₅	14.3	0.15	20000406	28.41952	329.15270	208.97469	12.77644	0.0218852	2.7359342	29	1	8 days	0.41		Williams	2000 GZ ₆₅
2000 GG ₆₆	15.3	0.15	20000406	17.10131	301.66590	241.70142	1.18934	0.1401037	2.3271301	20	1	3 days	0.50	E	Williams	2000 GG ₆₆
2000 GP ₆₆	14.3	0.15	20000406	50.64180	137.18478	10.29488	4.85991	0.1054632	2.7150771	18	1	3 days	0.44	E	Williams	2000 GP ₆₆
2000 GQ ₆₆	12.6	0.15	20000406	266.57806	311.06788	23.16219	13.67108	0.2864227	3.0232734	19	1	3 days	0.47	E	Williams	2000 GQ ₆₆
2000 GY ₆₆	15.5	0.15	20000406	342.60905	210.96937	19.90635	6.01445	0.1730073	2.2436075	20	1	3 days	0.46	E	Williams	2000 GY ₆₆
2000 GA ₆₇	14.6	0.15	20000406	71.67530	277.15099	208.28861	20.85843	0.1007626	2.6308157	16	1	3 days	0.52	E	Williams	2000 GA ₆₇
2000 GE ₆₇	15.0	0.15	20000406	24.88175	138.98913	23.96505	6.63054	0.2853738	2.9153924	22	1	3 days	0.68	E	Williams	2000 GE ₆₇
2000 GG ₆₇	15.7	0.15	20000406	10.64292	342.34297	207.43007	5.90838	0.2452987	2.9966737	23	1	6 days	0.45	E	Williams	2000 GG ₆₇
2000 GH ₆₇	14.6	0.15	20000406	351.96072	350.93586	226.42481	0.42242	0.0991819	2.3894352	27	1	3 days	0.37	E	Williams	2000 GH ₆₇
2000 GK ₆₇	17.0	0.15	20000406	324.95026	231.61748	23.08561	2.11391	0.1625709	2.2785762	14	1	6 days	0.42	E	Marsden	2000 GK ₆₇
2000 GN ₆₇	15.2	0.15	20000406	213.59420	164.35031	198.08741	4.89517	0.1405862	2.3726052	11	1	3 days	0.35	E	Williams	2000 GN ₆₇
2000 GC ₆₈	13.3	0.15	20000406	211.40226	184.85575	180.94281	5.33915	0.1473902	2.7572579	17	1	3 days	0.41	E	Williams	2000 GC ₆₈
2000 GV ₆₈	15.9	0.15	20000406	287.45583	278.42056	31.08052	23.53651	0.2518991	2.3649785	17	1	8 days	0.47		Williams	2000 GV ₆₈
2000 GP ₆₉	13.1	0.15	20000406	267.53695	111.37784	210.86086	4.72447	0.1671509	2.9145547	19	1	3 days	0.42	E	Williams	2000 GP ₆₉
2000 GX ₆₉	16.1	0.15	20000406	304.81851	250.80987	22.54376	7.15032	0.1022031	2.2444857	21	1	3 days	0.57	E	Williams	2000 GX ₆₉
2000 GF ₇₀	12.8	0.15	20000406	244.36505	310.04517	29.94126	18.48249	0.1174359	3.1186926	17	1	3 days	0.49	E	Williams	2000 GF ₇₀
2000 GM ₇₀	16.4	0.15	20000406	22.45299	318.45730	210.48094	4.05955	0.2454387	2.1781489	22	1	3 days	0.78	E	Williams	2000 GM ₇₀
2000 GR ₇₀	14.1	0.15	20000406	304.56858	320.97784	324.57996	0.33666	0.1726616	3.1544092	20	1	3 days	0.47	E	Williams	2000 GR ₇₀
2000 GO ₇₂	14.3	0.15	20000406	23.51205	93.49927	77.77833	2.27849	0.2583702	3.1371092	15	1	6 days	0.42	E	Williams	2000 GO ₇₂
2000 GZ ₇₂	14.6	0.15	20000406	338.62907	214.87721	33.69951	13.94046	0.2651276	3.1195097	17	1	3 days	0.54	E	Williams	2000 GZ ₇₂
2000 GX ₇₃	14.5	0.15	20000406	11.65784	330.69671	224.98938	5.33087	0.1272713	2.3753186	17	1	7 days	0.55		Williams	2000 GX ₇₃
2000 GB ₇₄	15.2	0.15	20000406	31.01188	131.84611	29.78363	2.81550	0.2333064	2.5221379	19	1	3 days	0.66	E	Williams	2000 GB ₇₄
2000 GC ₇₄	13.7	0.15	20000406	75.30489	272.88385	211.83106	3.21520	0.1211395	3.0220762	22	1	3 days	0.58	E	Williams	2000 GC ₇₄
2000 GJ ₇₄	14.4	0.15	20000406	307.10047	74.24996	203.25562	3.55035	0.1384408	2.2914044	19	1	12 days	0.56		Williams	2000 GJ ₇₄
2000 GO ₇₄	13.6	0.15	20000406	35.92239	138.44303	35.87029	13.69627	0.0459339	2.8368745	20	1	7 days	0.52		Williams	2000 GO ₇₄
2000 GJ ₇₅	15.8	0.15	20000406	355.01318	50.07223	166.93108	2.74879	0.1665857	2.4120604	17	1	7 days	0.44		Williams	2000 GJ ₇₅
2000 GL ₇₅	12.7	0.15	20000406	309.08223	251.05277	35.50463	22.52823	0.2390160	2.3936706	20	1	12 days	0.55		Williams	2000 GL ₇₅
2000 GV ₇₅	12.4	0.15	20000406	245.72633	310.05083	35.08814	12.86130	0.1747135	2.5714132	22	1	7 days	0.54		Williams	2000 GV ₇₅
2000 GC ₇₆	13.3	0.15	20000406	332.89773	26.65329	218.90368	4.40735	0.0968607	2.6630495	19	1	3 days	0.38	E	Williams	2000 GC ₇₆
2000 GJ ₇₆	14.7	0.15	20000406	8.29460	175.56956	24.62603	9.74951	0.1837854	2.7888896	18	1	7 days	0.63		Williams	2000 GJ ₇₆
2000 GV ₇₆	14.0	0.15	20000406	11.71805	342.78894	216.28918	6.07842	0.0713505	2.2874704	19	1	3 days	0.26	E	Williams	2000 GV ₇₆
2000 GW ₇₆	14.0	0.15	20000406	32.18032	314.44370	217.55896	4.20303	0.1385505	2.7673978	21	1	8 days	0.55		Williams	2000 GW ₇₆

2000 GE ₇₇	13.4	0.15	20000317	351.83069	10.88584	206.94445	12.26940	0.0818543	2.5679397	17	1	30 days	0.26	Williams	2000 GE ₇₇
2000 GJ ₇₇	15.2	0.15	20000406	40.30662	99.80557	52.77295	3.31753	0.2440680	2.9199032	13	1	5 days	0.53	E Marsden	2000 GJ ₇₇
2000 GL ₇₇	16.0	0.15	20000406	284.27055	276.11171	33.76302	4.95844	0.2299663	2.7617541	11	1	2 days	0.49	E Williams	2000 GL ₇₇
2000 GM ₇₇	15.0	0.15	20000406	292.71500	158.76110	145.72845	1.44741	0.2517986	3.0126739	17	1	10 days	0.63	Williams	2000 GM ₇₇
2000 GQ ₇₇	15.3	0.15	20000406	17.75744	338.40036	207.10782	19.55081	0.1249487	3.2735691	10	1	2 days	0.60	E Williams	2000 GQ ₇₇
2000 GR ₇₇	16.1	0.15	20000406	271.32645	271.92267	43.10322	1.57329	0.1671621	2.3708256	23	1	8 days	0.65	Williams	2000 GR ₇₇
2000 GT ₇₇	16.0	0.15	20000406	21.97919	282.81224	246.07928	0.32536	0.2667561	3.1107276	11	1	6 days	0.70	E Williams	2000 GT ₇₇
2000 GA ₇₈	14.1	0.15	20000406	219.68911	318.16366	35.01428	2.21009	0.0365986	2.9163488	14	1	3 days	0.55	E Williams	2000 GA ₇₈
2000 GE ₇₈	13.5	0.15	20000406	135.48499	237.96935	193.14226	9.00062	0.0416343	3.0327461	11	1	8 days	0.43	Williams	2000 GE ₇₈
2000 GG ₇₈	15.3	0.15	20000406	194.61747	170.03198	208.52600	9.68630	0.0989017	3.0065301	11	1	6 days	0.57	E Williams	2000 GG ₇₈
2000 GH ₇₈	16.4	0.15	20000406	326.27836	212.76747	32.13003	10.26362	0.0401180	2.5157266	12	1	6 days	0.37	E Williams	2000 GH ₇₈
2000 GC ₇₉	15.3	0.15	20000406	1.97049	39.91934	166.93802	0.57586	0.1414846	2.4127544	11	1	6 days	0.52	E Williams	2000 GC ₇₉
2000 GT ₇₉	16.6	0.15	20000406	289.44269	264.40908	30.65663	3.85946	0.1631575	2.3183557	15	1	3 days	0.74	E Williams	2000 GT ₇₉
2000 GW ₇₉	15.5	0.15	20000406	324.26491	217.78418	14.50307	7.27923	0.1547341	2.3402649	24	1	5 days	0.59	E Williams	2000 GW ₇₉
2000 GY ₇₉	14.6	0.15	20000406	5.57560	248.23634	299.88099	3.89492	0.1387561	2.4396111	26	1	8 days	0.29	Williams	2000 GY ₇₉
2000 GB ₈₀	12.5	0.15	20000317	71.17077	240.73517	230.96385	8.72621	0.0636100	3.0074419	17	1	4 days	0.29	E Williams	2000 GB ₈₀
2000 GG ₈₀	13.8	0.15	20000406	109.28202	232.04867	207.05155	10.28349	0.1054240	2.7372474	16	1	6 days	0.51	E Williams	2000 GG ₈₀
2000 GK ₈₀	14.0	0.15	20000317	120.55937	17.43085	37.00825	0.80203	0.1991438	3.0334341	38	1	10 days	0.63	Williams	2000 GK ₈₀
2000 GL ₈₀	15.0	0.15	20000406	244.67418	300.91126	35.61957	12.42048	0.2996309	2.2629733	32	1	6 days	0.64	E Williams	2000 GL ₈₀
2000 GU ₈₀	14.3	0.15	20000406	306.05604	186.08670	111.32294	13.45003	0.2421621	2.5625102	14	1	7 days	0.47	Williams	2000 GU ₈₀
2000 GE ₈₁	15.1	0.15	20000406	29.32430	276.22408	238.65724	1.70631	0.2670806	2.8965277	18	1	5 days	0.46	E Williams	2000 GE ₈₁
2000 GN ₈₁	15.5	0.15	20000406	170.05039	8.98153	32.13125	2.89155	0.0587342	2.4346651	16	1	5 days	0.52	E Williams	2000 GN ₈₁
2000 GT ₈₁	16.1	0.15	20000406	332.39002	206.60501	28.89447	23.80098	0.0560113	1.9303448	10	1	7 days	0.33	Williams	2000 GT ₈₁
2000 GV ₈₁	15.1	0.15	20000406	60.33349	99.45520	4.88712	21.34491	0.2658579	2.7794265	14	1	2 days	0.52	E Williams	2000 GV ₈₁
2000 GW ₈₁	15.4	0.15	20000406	268.37652	110.44088	205.67362	19.32650	0.2670899	2.3493691	15	1	8 days	1.14	Williams	2000 GW ₈₁
2000 GX ₈₁	16.0	0.15	20000317	317.97625	31.80923	204.94430	20.38359	0.0495068	1.9135480	19	1	11 days	0.39	Williams	2000 GX ₈₁
2000 GY ₈₁	14.9	0.15	20000406	178.46206	173.32811	196.21814	21.23347	0.0413946	1.9573363	17	1	5 days	0.98	E Williams	2000 GY ₈₁
2000 GB ₈₂	14.9	0.15	20000406	216.11002	321.82782	31.67369	19.51714	0.1322692	1.7350320	20	1	4 days	0.97	Williams	2000 GB ₈₂
2000 GH ₈₂	12.9	0.15	20000406	292.63180	103.40900	194.18754	12.39796	0.1696881	2.6025815	16	1	9 days	0.24	Williams	2000 GH ₈₂
2000 GJ ₈₂	15.5	0.15	20000406	306.99918	194.00215	99.84592	2.69897	0.2909479	2.3116264	12	1	2 days	0.84	E Williams	2000 GJ ₈₂
2000 GK ₈₂	12.9	0.15	20000406	334.50409	90.73671	159.68033	11.30453	0.2391952	3.1933575	35	1	9 days	0.76	Williams	2000 GK ₈₂
2000 GN ₈₂	13.1	0.15	20000406	155.06160	253.60436	155.67751	11.17547	0.1033040	3.0132401	22	1	8 days	0.37	Marsden	2000 GN ₈₂
2000 GO ₈₂	17.0	0.15	20000406	326.96617	164.19795	173.55863	25.61493	0.8054196	2.1709882	57	1	7 days	0.61	Williams	2000 GO ₈₂
2000 GP ₈₂	17.3	0.15	20000406	71.41421	332.85873	114.97075	13.23322	0.3939990	1.3975005	89	1	10 days	0.56	Williams	2000 GP ₈₂
2000 GR ₈₂	14.0	0.15	20000406	270.38846	16.20407	272.81500	2.97601	0.0894865	3.1705393	15	1	8 days	0.56	Williams	2000 GR ₈₂
2000 GJ ₈₃	14.8	0.15	20000406	355.96990	344.48832	187.77252	6.28128	0.1995604	2.2653514	12	1	14 days	0.30	Williams	2000 GJ ₈₃
2000 GV ₈₃	15.9	0.15	20000406	353.30831	137.33642	55.58179	4.94868	0.1066536	2.3048276	14	1	5 days	0.40	E Williams	2000 GV ₈₃
2000 GW ₈₃	15.9	0.15	20000406	56.56695	336.99137	127.49688	5.69000	0.2052200	2.5781726	12	1	5 days	0.70	E Williams	2000 GW ₈₃
2000 GB ₈₄	15.3	0.15	20000406	84.04219	27.13421	50.01077	8.35788	0.2088082	2.4783072	14	1	5 days	0.65	E Williams	2000 GB ₈₄
2000 GD ₈₄	16.0	0.15	20000317	302.87650	175.58046	86.94649	5.85192	0.2169005	2.3424198	21	1	31 days	0.56	Williams	2000 GD ₈₄
2000 GK ₈₄	14.2	0.15	20000406	56.46219	59.11144	66.38383	12.43393	0.1057330	2.9893642	12	1	10 days	0.38	Williams	2000 GK ₈₄
2000 GT ₈₄	12.6	0.15	20000406	277.90985	233.63072	68.50855	17.69561	0.2023739	3.0484596	16	1	11 days	0.36	Williams	2000 GT ₈₄
2000 GV ₈₄	13.8	0.15	20000406	88.04172	337.46866	118.70850	13.77142	0.1259730	2.6452336	14	1	11 days	0.47	Williams	2000 GV ₈₄
2000 GW ₈₄	14.9	0.15	20000406	332.63931	107.35079	126.31294	13.02383	0.1242311	2.5950363	12	1	11 days	0.61	Williams	2000 GW ₈₄
2000 GY ₈₄	13.3	0.15	20000406	250.18906	214.90089	111.27511	13.55694	0.1710321	2.7275423	13	1	11 days	0.58	Williams	2000 GY ₈₄
2000 GB ₈₅	14.8	0.15	20000406	319.54668	122.19460	129.51766	13.91236	0.1406631	2.5677219	11	1	11 days	0.41	Williams	2000 GB ₈₅
2000 GC ₈₅	13.8	0.15	20000406	239.68364	209.54851	122.12116	15.94994	0.1295483	2.5989392	16	1	11 days	0.47	Williams	2000 GC ₈₅
2000 GD ₈₅	14.1	0.15	20000317	272.44279	202.51728	99.66225	14.14603	0.1775715	2.6025533	20	1	33 days	0.93	Williams	2000 GD ₈₅
2000 GG ₈₅	12.8	0.15	20000406	130.35546	298.70813	117.76077	14.20298	0.1839110	2.6817806	15	1	11 days	0.37	Williams	2000 GG ₈₅
2000 GJ ₈₅	12.2	0.15	20000406	1.51061	79.24369	119.45125	15.27798	0.0941509	3.0553818	15	1	11 days	0.29	Williams	2000 GJ ₈₅
2000 GL ₈₅	14.8	0.15	20000406	324.58551	182.65227	72.01268	14.94926	0.2332043	2.5617829	13	1	11 days	0.45	Williams	2000 GL ₈₅
2000 GN ₈₅	12.6	0.15	20000406	332.91368	102.19872	133.06937	16.66915	0.0854794	3.1822616	12	1	11 days	0.32	Williams	2000 GN ₈₅
2000 GP ₈₅	14.3	0.15	20000406	324.38775	122.95539	133.81455	13.49590	0.2241885	2.5981864	11	1	11 days	0.29	Williams	2000 GP ₈₅

2000 APR. 18

M.P.C. 40523

2000 GU ₈₅	14.9	0.15	20000406	58.04480	349.23256	143.06373	13.20853	0.0797256	2.5254585	12	1	10 days	0.38	Williams	2000 GU ₈₅
2000 GV ₈₅	14.6	0.15	20000406	326.07352	161.20286	79.25258	13.67634	0.1267439	2.5692164	10	1	8 days	0.42	Williams	2000 GV ₈₅
2000 GJ ₈₆	13.9	0.15	20000406	268.25292	230.91794	62.29897	16.00466	0.1320758	2.6126506	11	1	8 days	0.38	Williams	2000 GJ ₈₆
2000 GP ₈₆	15.1	0.15	20000406	165.10486	346.82559	31.23291	5.56093	0.1621984	2.3647181	13	1	4 days	0.52	E Williams	2000 GP ₈₆
2000 GS ₈₆	15.7	0.15	20000317	283.12169	229.39494	51.88237	4.19486	0.1375765	2.5359716	16	1	6 days	0.53	E Williams	2000 GS ₈₆
2000 GU ₈₆	15.4	0.15	20000406	251.01864	165.92029	154.79169	2.80612	0.1586670	2.3831054	23	1	8 days	0.49	Williams	2000 GU ₈₆
2000 GW ₈₆	16.6	0.15	20000406	315.90487	122.04877	137.64527	5.71959	0.2133322	2.3289643	23	1	8 days	0.43	Williams	2000 GW ₈₆
2000 GA ₈₇	16.0	0.15	20000406	19.34970	35.45386	128.82021	5.73985	0.2533472	2.4101846	13	1	9 days	0.82	Williams	2000 GA ₈₇
2000 GC ₈₇	14.6	0.15	20000406	5.34544	94.56822	96.99635	6.28262	0.0774205	3.1002659	20	1	9 days	0.59	Williams	2000 GC ₈₇
2000 GF ₈₇	15.3	0.15	20000406	353.86054	145.75661	61.00762	7.37856	0.1552520	2.3953748	20	1	15 days	0.61	Williams	2000 GF ₈₇
2000 GJ ₈₇	14.3	0.15	20000406	52.20822	92.44714	44.62727	8.82320	0.1069056	3.1091149	11	1	8 days	0.55	Williams	2000 GJ ₈₇
2000 GL ₈₇	13.4	0.15	20000406	74.57462	45.99570	56.67114	11.22679	0.2028299	3.2349214	13	1	4 days	0.62	E Williams	2000 GL ₈₇
2000 GO ₈₇	14.2	0.15	20000406	61.77096	27.06246	101.40282	7.10640	0.0790123	2.4806993	17	1	9 days	0.28	Williams	2000 GO ₈₇
2000 GS ₈₇	15.2	0.15	20000406	300.04779	174.30161	99.38871	6.13664	0.1383774	2.2108599	13	1	8 days	0.30	Williams	2000 GS ₈₇
2000 GX ₈₇	13.5	0.15	20000406	339.75718	54.11617	170.21611	14.12801	0.0704011	2.6039917	18	1	9 days	0.38	Williams	2000 GX ₈₇
2000 GY ₈₇	13.1	0.15	20000406	35.98994	84.37304	65.53323	10.78891	0.1795030	3.1438462	17	1	9 days	0.44	Williams	2000 GY ₈₇
2000 GZ ₈₇	14.0	0.15	20000406	48.53820	60.81966	84.20885	7.09235	0.0748571	2.3392073	18	1	9 days	0.76	Williams	2000 GZ ₈₇
2000 GA ₈₈	15.5	0.15	20000406	72.14686	4.24360	112.29541	6.12200	0.1054318	2.3118448	17	1	9 days	0.56	Williams	2000 GA ₈₈
2000 GC ₈₈	14.9	0.15	20000406	311.98424	209.27871	51.72011	10.80627	0.1301813	2.8008431	14	1	4 days	0.39	E Williams	2000 GC ₈₈
2000 GD ₈₈	14.0	0.15	20000406	69.81181	68.42820	49.23791	13.18815	0.1185512	2.7021148	18	1	9 days	0.60	Williams	2000 GD ₈₈
2000 GE ₈₈	14.0	0.15	20000406	311.18231	172.49580	96.11458	3.41038	0.1935333	2.3572525	17	1	9 days	0.25	Williams	2000 GE ₈₈
2000 GG ₈₈	13.0	0.15	20000406	106.76632	254.51774	188.61545	24.11498	0.1296438	3.2620570	14	1	4 days	0.44	E Williams	2000 GG ₈₈
2000 GJ ₈₈	15.9	0.15	20000406	28.90023	332.48794	178.90514	11.70565	0.2769716	2.7303630	12	1	4 days	0.44	E Williams	2000 GJ ₈₈
2000 GK ₈₈	15.6	0.15	20000406	272.92064	135.08255	168.63269	7.83238	0.1344835	2.2821349	12	1	4 days	0.44	E Williams	2000 GK ₈₈
2000 GL ₈₈	16.1	0.15	20000406	10.61162	124.72063	61.35226	6.08080	0.1577064	2.2709296	13	1	4 days	0.68	E Williams	2000 GL ₈₈
2000 GM ₈₈	13.5	0.15	20000406	65.07696	49.03845	78.88256	7.57419	0.0873333	3.1610629	19	1	9 days	0.49	Williams	2000 GM ₈₈
2000 GO ₈₈	14.0	0.15	20000406	52.51048	96.21727	48.83824	15.68179	0.0358337	2.6614485	14	1	9 days	0.57	Williams	2000 GO ₈₈
2000 GP ₈₈	13.8	0.15	20000406	263.53795	238.87401	67.35600	10.45475	0.0670202	2.9823804	17	1	9 days	0.94	Williams	2000 GP ₈₈
2000 GQ ₈₈	15.9	0.15	20000406	15.12450	107.15356	74.50133	9.46187	0.0879897	2.7544973	13	1	4 days	0.53	E Williams	2000 GQ ₈₈
2000 GR ₈₈	13.6	0.15	20000406	271.49738	258.97581	52.55569	14.72420	0.1983342	2.7790583	14	1	4 days	0.27	E Williams	2000 GR ₈₈
2000 GT ₈₈	15.0	0.15	20000406	302.39357	181.37748	94.32843	7.34451	0.1613885	2.3044126	22	1	9 days	0.36	Williams	2000 GT ₈₈
2000 GW ₈₈	15.3	0.15	20000406	27.50075	71.63086	97.70070	7.66822	0.0823965	2.3847789	17	1	9 days	0.51	Williams	2000 GW ₈₈
2000 GZ ₈₈	13.5	0.15	20000406	224.16531	233.27094	114.92649	5.13568	0.1313958	2.7501392	14	1	4 days	0.49	E Williams	2000 GZ ₈₈
2000 GB ₈₉	13.0	0.15	20000406	163.10710	226.44806	170.17830	9.23520	0.1434220	2.7663989	14	1	4 days	0.46	E Williams	2000 GB ₈₉
2000 GD ₈₉	14.3	0.15	20000406	42.10848	77.06154	61.26462	7.81181	0.2354207	3.1978340	13	1	4 days	0.52	E Williams	2000 GD ₈₉
2000 GE ₈₉	14.1	0.15	20000406	292.26673	218.19963	63.73550	6.49945	0.1060128	2.4005229	26	1	9 days	0.84	Williams	2000 GE ₈₉
2000 GH ₈₉	16.0	0.15	20000406	319.10533	128.13310	128.50327	5.48226	0.1501226	2.3969669	18	1	5 days	0.61	E Williams	2000 GH ₈₉
2000 GJ ₈₉	15.9	0.15	20000406	302.37243	127.15888	145.48561	5.63981	0.1124742	2.5493703	20	1	9 days	0.49	Williams	2000 GJ ₈₉
2000 GK ₈₉	15.7	0.15	20000406	332.30856	108.89280	129.96375	5.09797	0.1263731	2.6034035	17	1	9 days	0.64	Williams	2000 GK ₈₉
2000 GM ₈₉	14.9	0.15	20000406	320.80815	157.06809	102.33894	5.99937	0.2006657	2.3564258	26	1	9 days	0.38	Williams	2000 GM ₈₉
2000 GN ₈₉	13.8	0.15	20000406	317.79546	192.04163	69.75965	9.30283	0.1777822	2.7746927	19	1	9 days	0.42	Williams	2000 GN ₈₉
2000 GO ₈₉	14.1	0.15	20000406	291.36779	156.16618	147.04995	8.40703	0.2648574	2.4695084	32	1	11 days	0.45	Williams	2000 GO ₈₉
2000 GP ₈₉	12.4	0.15	20000406	185.74725	320.50416	59.67164	13.68593	0.0942222	3.1123842	19	1	7 days	0.39	Williams	2000 GP ₈₉
2000 GQ ₈₉	14.1	0.15	20000406	275.90081	143.73560	165.96773	12.59102	0.1881242	2.5794682	16	1	9 days	0.44	Williams	2000 GQ ₈₉
2000 GU ₈₉	15.1	0.15	20000317	150.31338	256.22701	139.73950	4.30019	0.1111190	2.6400866	17	1	6 days	0.52	E Williams	2000 GU ₈₉
2000 GX ₈₉	16.0	0.15	20000406	30.05688	85.97187	70.47984	5.98456	0.1629637	2.3418076	15	1	15 days	0.75	Williams	2000 GX ₈₉
2000 GA ₉₀	14.1	0.15	20000406	61.94671	325.01392	147.48580	11.69737	0.2456568	3.2134082	11	1	4 days	0.60	E Williams	2000 GA ₉₀
2000 GC ₉₀	15.9	0.15	20000406	29.97518	358.64007	169.78633	11.89528	0.0860765	2.5852736	16	1	5 days	0.82	E Williams	2000 GC ₉₀
2000 GF ₉₀	17.5	0.15	20000406	19.64968	114.57054	55.12094	7.86530	0.2295811	2.1618232	12	1	4 days	0.42	E Williams	2000 GF ₉₀
2000 GH ₉₀	14.2	0.15	20000406	101.34156	340.72180	112.69389	10.02124	0.0713807	3.1430799	15	1	9 days	0.65	Williams	2000 GH ₉₀
2000 GJ ₉₀	12.1	0.15	20000406	242.66640	181.04098	168.16137	16.92697	0.2978292	3.1195175	20	1	9 days	0.62	Williams	2000 GJ ₉₀
2000 GK ₉₀	13.7	0.15	20000406	21.79718	76.54109	90.88261	7.56826	0.2436542	2.7218188	28	1	10 days	0.31	Williams	2000 GK ₉₀
2000 GL ₉₀	14.6	0.15	20000406	285.72873	188.29648	112.80158	7.88870	0.1956928	2.4137986	12	1	4 days	0.55	E Williams	2000 GL ₉₀

2000 GQ ₉₀	15.5	0.15	20000406	349.38226	168.95981	47.93666	11.98390	0.1039065	2.6126711	18	1	5 days	0.69	E Williams	2000 GQ ₉₀
2000 GR ₉₀	16.0	0.15	20000406	339.50713	159.53321	79.55506	5.55062	0.2697872	2.5784627	16	1	5 days	0.51	E Williams	2000 GR ₉₀
2000 GS ₉₀	14.9	0.15	20000406	304.77712	160.03967	112.16275	4.93746	0.1290116	2.1764629	16	1	5 days	0.26	E Williams	2000 GS ₉₀
2000 GT ₉₀	13.8	0.15	20000406	288.70973	251.46467	44.30801	19.15315	0.1778385	2.7538059	12	1	4 days	0.37	E Williams	2000 GT ₉₀
2000 GU ₉₀	13.9	0.15	20000406	328.63760	133.95797	113.91578	6.40897	0.1535119	3.1652608	16	1	9 days	0.70	Williams	2000 GU ₉₀
2000 GV ₉₀	14.9	0.15	20000406	43.15769	344.02536	176.69320	11.84963	0.0244360	2.5405590	12	1	4 days	0.34	E Williams	2000 GV ₉₀
2000 GW ₉₀	16.6	0.15	20000406	334.06599	158.13433	81.89843	5.46300	0.1687877	2.2303615	16	1	5 days	0.62	E Williams	2000 GW ₉₀
2000 GY ₉₀	14.5	0.15	20000406	244.75613	239.24985	100.15498	8.42377	0.1932264	2.6264826	16	1	5 days	0.75	E Williams	2000 GY ₉₀
2000 GA ₉₁	13.6	0.15	20000406	330.23759	159.26828	79.90515	11.68163	0.0673235	2.9727218	13	1	9 days	0.56	Williams	2000 GA ₉₁
2000 GD ₉₁	14.0	0.15	20000406	290.33714	193.97655	88.45473	11.53892	0.0561557	2.9507864	12	1	4 days	0.48	E Williams	2000 GD ₉₁
2000 GE ₉₁	14.5	0.15	20000406	6.06437	147.73623	50.72931	19.44053	0.0683118	2.7638646	16	1	9 days	0.63	Williams	2000 GE ₉₁
2000 GF ₉₁	13.7	0.15	20000406	297.64481	116.60264	173.31881	11.46547	0.1878401	2.6800947	13	1	9 days	0.35	Williams	2000 GF ₉₁
2000 GG ₉₁	13.6	0.15	20000406	142.44765	353.88039	60.07825	12.58684	0.1656154	2.5133389	20	1	9 days	0.46	Williams	2000 GG ₉₁
2000 GH ₉₁	13.2	0.15	20000406	281.11370	134.11896	165.82886	10.08246	0.1239647	2.5343682	21	1	9 days	0.64	Williams	2000 GH ₉₁
2000 GK ₉₁	14.0	0.15	20000406	356.80718	92.69661	117.36145	8.27416	0.0753002	2.4286788	20	1	9 days	0.56	Williams	2000 GK ₉₁
2000 GL ₉₁	13.6	0.15	20000406	20.85197	356.68815	187.37699	25.06338	0.1044928	2.9825439	11	1	5 days	0.33	E Williams	2000 GL ₉₁
2000 GQ ₉₁	13.0	0.15	20000406	263.95643	202.16546	111.93242	11.31301	0.0810223	3.0640812	23	1	9 days	0.50	Williams	2000 GQ ₉₁
2000 GR ₉₁	15.0	0.15	20000406	297.67330	169.60034	112.48992	9.47049	0.1151193	2.4402887	12	1	4 days	0.36	E Williams	2000 GR ₉₁
2000 GS ₉₁	13.5	0.15	20000406	233.75060	200.15772	138.66787	11.15887	0.0233725	3.0229030	15	1	5 days	0.68	E Williams	2000 GS ₉₁
2000 GV ₉₁	15.2	0.15	20000406	13.57269	87.00128	98.10821	7.44985	0.2026873	2.3217618	12	1	4 days	0.45	E Williams	2000 GV ₉₁
2000 GW ₉₁	14.4	0.15	20000406	101.03353	335.93981	120.22082	7.27104	0.0996361	2.4979068	19	1	9 days	0.78	Williams	2000 GW ₉₁
2000 GX ₉₁	14.8	0.15	20000406	268.87769	177.85490	141.69199	7.28922	0.1774723	2.3425476	15	1	5 days	0.56	E Williams	2000 GX ₉₁
2000 GY ₉₁	13.0	0.15	20000406	290.00476	122.96812	180.69675	16.76184	0.2011470	2.7197601	19	1	9 days	0.46	Williams	2000 GY ₉₁
2000 GZ ₉₁	15.1	0.15	20000406	311.82559	99.09649	184.24572	16.63164	0.2528333	2.4744844	11	1	4 days	0.64	E Williams	2000 GZ ₉₁
2000 GA ₉₂	14.0	0.15	20000406	102.47212	286.85403	173.17327	14.32335	0.0768277	2.5963889	20	1	9 days	0.74	Williams	2000 GA ₉₂
2000 GC ₉₂	14.1	0.15	20000406	59.14586	77.05788	62.25483	15.54877	0.0953549	2.5734369	17	1	9 days	0.84	Williams	2000 GC ₉₂
2000 GD ₉₂	12.7	0.15	20000406	282.59279	241.68671	63.46720	19.73740	0.1596772	3.2232203	21	1	9 days	0.70	Williams	2000 GD ₉₂
2000 GE ₉₂	14.1	0.15	20000406	245.09904	162.54894	167.61175	14.32910	0.1050650	2.6358511	15	1	9 days	0.55	Williams	2000 GE ₉₂
2000 GG ₉₂	16.1	0.15	20000406	325.42242	88.00984	161.11370	8.31696	0.1210526	2.2508416	19	1	9 days	0.66	Williams	2000 GG ₉₂
2000 GL ₉₂	14.5	0.15	20000406	44.87140	337.67219	164.15608	10.95174	0.2281975	2.9574626	12	1	3 days	0.46	E Williams	2000 GL ₉₂
2000 GS ₉₂	15.7	0.15	20000406	325.88259	106.59681	130.15841	2.63825	0.2307365	2.7981378	12	1	3 days	0.38	E Williams	2000 GS ₉₂
2000 GT ₉₂	15.1	0.15	20000406	29.60059	69.93064	75.11974	3.38515	0.1474491	2.3898979	13	1	3 days	0.45	E Williams	2000 GT ₉₂
2000 GU ₉₂	14.5	0.15	20000406	260.82692	181.08941	102.12623	4.00079	0.0100900	2.6403034	12	1	3 days	0.39	E Williams	2000 GU ₉₂
2000 GW ₉₂	14.6	0.15	20000406	55.93030	94.31554	24.40770	11.80995	0.0810978	2.7076047	14	1	3 days	0.52	E Williams	2000 GW ₉₂
2000 GX ₉₂	13.8	0.15	20000406	299.85697	240.62705	26.42607	9.63662	0.2171879	3.2187425	13	1	3 days	0.49	E Williams	2000 GX ₉₂
2000 GY ₉₂	12.5	0.15	20000406	353.00311	38.28599	152.46804	5.78882	0.0416937	3.2006175	14	1	3 days	0.23	E Williams	2000 GY ₉₂
2000 GZ ₉₂	15.5	0.15	20000406	303.59375	116.11629	143.60715	3.24117	0.1579014	2.2407768	11	1	3 days	0.25	E Williams	2000 GZ ₉₂
2000 GA ₉₃	15.6	0.15	20000406	346.29541	137.65326	65.67942	4.17692	0.0913198	2.2436270	13	1	3 days	0.27	E Williams	2000 GA ₉₃
2000 GF ₉₃	14.8	0.15	20000406	358.11189	101.78671	98.62423	9.99677	0.1118412	2.7134792	12	1	8 days	0.53	Williams	2000 GF ₉₃
2000 GG ₉₃	14.6	0.15	20000406	342.32364	72.84062	151.34958	12.05094	0.1542329	2.6881297	17	1	7 days	0.47	Williams	2000 GG ₉₃
2000 GH ₉₃	14.4	0.15	20000406	294.79991	133.53207	147.62965	12.86229	0.1424427	3.0529745	12	1	3 days	0.70	E Williams	2000 GH ₉₃
2000 GJ ₉₃	13.7	0.15	20000406	254.60655	256.74610	68.29168	13.11458	0.2052243	2.7340165	25	1	9 days	0.51	Williams	2000 GJ ₉₃
2000 GK ₉₃	13.0	0.15	20000406	2.29396	118.49578	78.01013	11.03127	0.0405872	3.1468866	20	1	8 days	0.45	Williams	2000 GK ₉₃
2000 GL ₉₃	13.8	0.15	20000406	220.32052	264.89783	81.69642	11.28287	0.1040166	3.0173469	17	1	9 days	0.50	Williams	2000 GL ₉₃
2000 GM ₉₃	15.2	0.15	20000406	76.14277	44.58602	71.15930	10.96928	0.0700854	2.7187639	12	1	3 days	0.59	E Williams	2000 GM ₉₃
2000 GN ₉₃	12.7	0.15	20000406	302.27507	186.98415	74.66643	11.16050	0.0374887	2.9983037	22	1	8 days	0.45	Williams	2000 GN ₉₃
2000 GO ₉₃	12.3	0.15	20000406	318.88432	178.90709	76.11217	12.09463	0.1602406	3.1509095	18	1	8 days	0.32	Williams	2000 GO ₉₃
2000 GS ₉₃	12.8	0.15	20000406	289.58773	188.46103	89.55697	11.55435	0.0637838	3.0563344	18	1	8 days	0.61	Williams	2000 GS ₉₃
2000 GU ₉₃	14.9	0.15	20000406	354.38759	139.33290	68.31424	12.65519	0.1520829	2.7347855	24	1	9 days	0.50	Williams	2000 GU ₉₃
2000 GW ₉₃	13.7	0.15	20000406	9.11313	134.51151	54.14333	16.65882	0.1075881	2.6401388	26	1	8 days	0.52	Williams	2000 GW ₉₃
2000 GX ₉₃	15.1	0.15	20000406	18.39823	14.93741	162.52327	13.74376	0.1356291	2.4046072	27	1	9 days	0.46	Williams	2000 GX ₉₃
2000 GY ₉₃	13.1	0.15	20000406	39.00996	44.41077	112.89940	11.62376	0.0674271	3.0188362	20	1	9 days	0.46	Williams	2000 GY ₉₃
2000 GZ ₉₃	15.9	0.15	20000406	327.52731	95.90197	158.12528	13.11614	0.2415944	2.4634236	21	1	8 days	0.62	Williams	2000 GZ ₉₃

2000 APR. 18

M.P.C. 40525

2000 GA ₉₄	14.7	0.15	20000406	316.51551	110.65018	158.57644	15.03552	0.2330456	2.7861775	20	1	8 days	0.59	Williams	2000 GA ₉₄
2000 GB ₉₄	13.8	0.15	20000406	291.77876	171.00099	103.67110	11.67022	0.0369188	2.9966090	22	1	8 days	0.39	Williams	2000 GB ₉₄
2000 GC ₉₄	13.0	0.15	20000406	176.30056	248.40169	137.71878	11.81629	0.1235276	2.7282022	18	1	8 days	0.40	Williams	2000 GC ₉₄
2000 GF ₉₄	13.7	0.15	20000406	252.15458	223.67447	97.31071	12.05573	0.0968516	2.9776206	16	1	8 days	0.53	Williams	2000 GF ₉₄
2000 GG ₉₄	13.8	0.15	20000406	47.37970	61.61273	90.68609	12.01153	0.0361260	2.9761556	16	1	8 days	0.47	Williams	2000 GG ₉₄
2000 GH ₉₄	13.1	0.15	20000406	25.70434	88.63680	84.84581	13.04811	0.0632701	3.0554238	10	1	8 days	0.82	Williams	2000 GH ₉₄
2000 GJ ₉₄	14.4	0.15	20000406	110.71101	284.78474	158.39739	14.33651	0.1067556	2.6066523	15	1	8 days	0.75	Williams	2000 GJ ₉₄
2000 GK ₉₄	13.4	0.15	20000406	95.73502	298.66585	153.74096	13.17817	0.1499708	2.5860002	21	1	8 days	0.43	Williams	2000 GK ₉₄
2000 GL ₉₄	14.5	0.15	20000406	158.27922	277.76011	125.02703	12.87524	0.1130014	2.5747011	10	1	3 days	0.49	E Williams	2000 GL ₉₄
2000 GM ₉₄	12.4	0.15	20000406	183.79069	277.16874	106.85577	14.68230	0.1653503	2.8006147	10	1	7 days	0.26	Williams	2000 GM ₉₄
2000 GO ₉₄	12.7	0.15	20000406	273.76062	193.53435	114.52362	12.34044	0.1264257	3.0523857	21	1	8 days	0.44	Williams	2000 GO ₉₄
2000 GP ₉₄	13.4	0.15	20000406	284.94275	147.51127	157.56481	14.94332	0.1922483	2.6121075	24	1	8 days	0.30	Williams	2000 GP ₉₄
2000 GR ₉₄	13.7	0.15	20000406	201.59945	278.02119	87.88907	11.87659	0.2024927	2.6559387	16	1	8 days	0.50	Williams	2000 GR ₉₄
2000 GS ₉₄	13.2	0.15	20000406	99.94879	316.64557	140.59839	12.24564	0.0465770	3.1702157	22	1	9 days	0.48	Williams	2000 GS ₉₄
2000 GU ₉₄	14.4	0.15	20000406	260.04792	207.83021	107.95374	13.55603	0.0737374	2.6195030	10	1	3 days	0.47	E Williams	2000 GU ₉₄
2000 GX ₉₄	16.0	0.15	20000406	6.06205	83.46935	106.31492	8.47012	0.1320956	2.6104387	18	1	7 days	0.65	E Williams	2000 GX ₉₄
2000 GY ₉₄	13.7	0.15	20000406	88.03372	32.78772	57.79124	16.40605	0.1642661	3.1229825	16	1	7 days	0.42	E Williams	2000 GY ₉₄
2000 GZ ₉₄	16.4	0.15	20000406	26.66437	290.96600	231.32511	0.76707	0.2377872	2.9681928	15	1	7 days	0.41	Williams	2000 GZ ₉₄
2000 GB ₉₅	13.2	0.15	20000406	7.85163	196.45917	0.56104	9.19602	0.1256876	3.0031293	11	1	6 days	0.38	E Williams	2000 GB ₉₅
2000 GR ₉₆	15.3	0.15	20000406	300.32836	348.76947	304.63617	0.92234	0.1741492	2.1871553	11	1	6 days	0.80	Williams	2000 GR ₉₆
2000 GV ₉₆	12.8	0.15	20000406	293.97381	80.88145	219.90275	10.41433	0.1255990	2.5593360	11	1	6 days	0.51	Williams	2000 GV ₉₆
2000 GY ₉₆	15.0	0.15	20000406	316.21741	254.06900	28.64881	1.80583	0.2269414	3.1335002	12	1	7 days	0.33	Williams	2000 GY ₉₆
2000 GZ ₉₇	15.3	0.15	20000406	287.22933	31.87197	255.53072	4.00390	0.1815654	2.3516791	18	1	5 days	0.52	E Williams	2000 GZ ₉₇
2000 GA ₉₈	13.4	0.15	20000406	155.37321	183.08534	211.12149	13.24839	0.1052361	2.9942263	23	1	7 days	0.51	Williams	2000 GA ₉₈
2000 GF ₉₈	14.3	0.15	20000317	177.77102	59.17717	314.26560	4.42142	0.2826554	2.2867176	18	1	6 days	0.50	E Williams	2000 GF ₉₈
2000 GJ ₉₈	14.5	0.15	20000406	294.27075	17.42515	251.07954	5.30274	0.0588605	2.3642530	14	1	5 days	0.51	Williams	2000 GJ ₉₈
2000 GO ₉₈	16.4	0.15	20000317	323.11804	12.09121	227.46852	5.58570	0.1668881	2.2560482	21	1	9 days	0.43	Williams	2000 GO ₉₈
2000 GP ₉₈	15.5	0.15	20000406	312.28539	5.67209	243.00924	3.11148	0.0514758	2.2551157	23	1	8 days	0.39	Williams	2000 GP ₉₈
2000 GS ₉₈	15.5	0.15	20000406	120.26036	195.05215	232.48585	4.99449	0.1025558	2.2183342	17	1	5 days	0.60	E Williams	2000 GS ₉₈
2000 GT ₉₈	15.6	0.15	20000317	273.03403	312.08722	354.24110	5.47302	0.2408134	2.3430912	17	1	6 days	0.56	E Williams	2000 GT ₉₈
2000 GB ₉₉	15.8	0.15	20000406	31.71391	180.95719	335.98246	3.23440	0.1331209	2.4345555	12	1	4 days	0.55	E Williams	2000 GB ₉₉
2000 GC ₉₉	12.9	0.15	20000406	207.44123	152.74622	205.40463	13.75503	0.1700067	2.5944765	20	1	4 days	0.59	E Williams	2000 GC ₉₉
2000 GJ ₉₉	14.8	0.15	20000317	358.52471	344.40916	210.70749	12.32234	0.1134715	2.6343441	32	1	16 days	0.69	Williams	2000 GJ ₉₉
2000 GM ₉₉	15.6	0.15	20000406	19.13899	253.87320	277.65176	2.90332	0.1725160	2.2720267	38	1	6 days	0.41	E Williams	2000 GM ₉₉
2000 GP ₉₉	15.0	0.15	20000406	69.18326	259.79588	228.87828	6.90356	0.0159221	2.2934116	16	1	5 days	0.43	E Williams	2000 GP ₉₉
2000 GS ₉₉	14.1	0.15	20000406	330.22213	21.14141	218.57035	11.78177	0.1370905	3.1455997	17	1	6 days	0.55	E Williams	2000 GS ₉₉
2000 GY ₉₉	13.5	0.15	20000406	104.04907	110.13264	338.97458	3.80898	0.0790059	2.7381621	16	1	6 days	0.45	E Williams	2000 GY ₉₉
2000 GZ ₉₉	16.2	0.15	20000406	338.05805	14.42734	216.91186	3.78316	0.1840381	2.1995204	18	1	6 days	0.26	E Williams	2000 GZ ₉₉
2000 GA ₁₀₁	15.7	0.15	20000406	312.12301	298.06204	321.70797	3.52268	0.2205002	2.3496496	12	1	4 days	0.63	E Williams	2000 GA ₁₀₁
2000 GO ₁₀₁	15.0	0.15	20000317	23.48895	197.78516	324.39722	3.79187	0.0983227	2.9408929	23	1	11 days	0.52	Williams	2000 GO ₁₀₁
2000 GH ₁₀₂	15.6	0.15	20000317	288.40994	61.42213	214.42733	4.89286	0.1327290	2.5260591	17	1	6 days	0.38	E Williams	2000 GH ₁₀₂
2000 GL ₁₀₂	14.2	0.15	20000317	302.19921	40.85377	211.85399	8.64168	0.0448938	2.9756181	18	1	6 days	0.50	E Williams	2000 GL ₁₀₂
2000 GM ₁₀₂	14.6	0.15	20000317	283.37076	281.27724	347.51124	4.87722	0.0148561	2.7432093	22	1	6 days	0.47	E Williams	2000 GM ₁₀₂
2000 GO ₁₀₂	13.2	0.15	20000406	238.97115	118.33153	206.43465	8.77383	0.0909701	3.0579342	23	1	8 days	0.34	Williams	2000 GO ₁₀₂
2000 GQ ₁₀₂	15.4	0.15	20000406	17.64706	305.31459	229.90178	3.70875	0.0965200	2.5969343	17	1	5 days	0.53	E Williams	2000 GQ ₁₀₂
2000 GS ₁₀₂	13.8	0.15	20000317	220.33688	127.42250	210.21468	8.78050	0.0717419	2.7631009	27	1	11 days	0.48	Williams	2000 GS ₁₀₂
2000 GJ ₁₀₃	14.1	0.15	20000406	49.66861	76.18815	51.53437	5.12253	0.2189829	3.0866359	13	1	7 days	0.76	Williams	2000 GJ ₁₀₃
2000 GN ₁₀₃	13.9	0.15	20000406	71.19461	329.95230	138.05009	3.28792	0.1864835	2.4825199	12	1	6 days	0.79	E Williams	2000 GN ₁₀₃
2000 GO ₁₀₃	15.6	0.15	20000406	358.98692	126.52718	74.75746	3.46093	0.1469804	2.4185343	17	1	9 days	0.74	Williams	2000 GO ₁₀₃
2000 GP ₁₀₃	16.0	0.15	20000406	320.47568	194.61923	53.64328	4.44858	0.1080329	2.1948441	13	1	7 days	0.88	Williams	2000 GP ₁₀₃
2000 GS ₁₀₃	14.8	0.15	20000406	45.37622	318.18847	183.80155	10.48595	0.1463229	2.6107900	13	1	6 days	0.34	E Williams	2000 GS ₁₀₃
2000 GO ₁₀₄	13.7	0.15	20000406	280.89815	191.45529	116.99715	3.67474	0.2268527	2.4707798	17	1	4 days	0.45	E Williams	2000 GO ₁₀₄
2000 GR ₁₀₄	14.6	0.15	20000406	259.88946	162.09034	145.62530	5.33976	0.0339377	2.7092041	17	1	2 days	0.56	E Williams	2000 GR ₁₀₄

2000 GY ₁₀₄	14.1	0.15	20000406	332.57170	93.17652	150.03888	2.87490	0.1926330	2.3298946	17	1	9 days	0.22	Williams	2000 GY ₁₀₄
2000 GZ ₁₀₄	13.8	0.15	20000406	8.72499	83.09847	111.18852	2.79193	0.1203597	3.1255147	17	1	4 days	0.39	E Williams	2000 GZ ₁₀₄
2000 GA ₁₀₅	14.9	0.15	20000406	349.00008	61.30247	157.76544	3.04879	0.1559560	2.3670944	17	1	4 days	0.37	E Williams	2000 GA ₁₀₅
2000 GB ₁₀₅	16.5	0.15	20000406	31.57101	103.97205	55.55926	5.05164	0.1858653	2.5193354	10	1	5 days	0.51	E Williams	2000 GB ₁₀₅
2000 GE ₁₀₅	14.9	0.15	20000406	332.30951	199.45501	50.87876	5.33250	0.2654020	2.3629746	13	1	4 days	0.46	E Williams	2000 GE ₁₀₅
2000 GH ₁₀₅	13.9	0.15	20000406	289.49301	258.37230	43.33773	15.11888	0.2344141	3.0841729	18	1	2 days	0.43	E Williams	2000 GH ₁₀₅
2000 GJ ₁₀₅	17.4	0.15	20000406	321.80947	197.29326	71.48027	4.52815	0.2991106	2.2035441	17	1	2 days	0.65	E Williams	2000 GJ ₁₀₅
2000 GN ₁₀₅	15.0	0.15	20000406	306.80113	192.83912	74.82115	3.32897	0.1390268	2.2640160	12	1	6 days	0.48	E Williams	2000 GN ₁₀₅
2000 GA ₁₀₆	13.9	0.15	20000406	231.56190	98.25410	249.54905	3.73359	0.1867584	2.2836352	22	1	5 days	0.33	E Williams	2000 GA ₁₀₆
2000 GE ₁₀₆	13.9	0.15	20000406	283.91511	277.23730	17.78524	10.33257	0.1224925	2.5943920	15	1	5 days	0.47	E Williams	2000 GE ₁₀₆
2000 GJ ₁₀₆	14.4	0.15	20000406	281.23675	52.44188	240.87308	4.53148	0.0906670	2.2747357	13	1	4 days	0.59	E Williams	2000 GJ ₁₀₆
2000 GK ₁₀₆	14.0	0.15	20000406	342.71856	247.33800	338.92247	2.00499	0.0829321	2.4730560	12	1	5 days	0.54	E Williams	2000 GK ₁₀₆
2000 GO ₁₀₆	12.9	0.15	20000406	264.88598	324.60839	356.37182	3.56197	0.1561525	2.5962504	13	1	6 days	0.36	E Williams	2000 GO ₁₀₆
2000 GX ₁₀₆	14.8	0.15	20000406	286.90474	258.82916	44.94096	12.49424	0.1802286	2.2619353	11	1	4 days	0.27	E Williams	2000 GX ₁₀₆
2000 GH ₁₀₇	14.5	0.15	20000406	238.33562	333.95647	8.27778	7.94996	0.1967746	2.2955208	13	1	5 days	0.80	E Williams	2000 GH ₁₀₇
2000 GM ₁₀₇	13.6	0.15	20000406	34.16042	114.19807	46.10405	11.66866	0.1586230	3.2403539	10	1	5 days	0.57	E Williams	2000 GM ₁₀₇
2000 GP ₁₀₇	15.4	0.15	20000406	292.87791	146.14462	146.61658	5.83006	0.1745143	2.3727839	17	1	6 days	0.58	E Williams	2000 GP ₁₀₇
2000 GQ ₁₀₇	13.3	0.15	20000406	142.31379	247.11772	173.69892	9.60257	0.0704164	2.6714833	13	1	6 days	0.49	E Williams	2000 GQ ₁₀₇
2000 GR ₁₀₇	13.9	0.15	20000406	357.28612	25.11094	186.09213	10.46874	0.3531870	3.0135522	16	1	6 days	0.45	Williams	2000 GR ₁₀₇
2000 GS ₁₀₇	14.3	0.15	20000406	284.73375	178.11858	117.31339	4.32104	0.1218143	2.2919634	11	1	6 days	0.33	E Williams	2000 GS ₁₀₇
2000 GV ₁₀₇	14.9	0.15	20000406	354.00772	68.20235	146.75605	3.28618	0.1592720	2.4742930	15	1	6 days	0.69	E Williams	2000 GV ₁₀₇
2000 GW ₁₀₇	13.7	0.15	20000406	320.61586	57.62383	194.49333	14.34925	0.0543423	2.5811172	12	1	5 days	0.26	Williams	2000 GW ₁₀₇
2000 GX ₁₀₇	13.7	0.15	20000406	47.83279	3.54383	144.21552	3.00802	0.1236475	2.3894585	11	1	6 days	0.61	E Williams	2000 GX ₁₀₇
2000 GA ₁₀₈	12.9	0.15	20000406	63.66831	333.58315	160.77500	4.65961	0.1030496	2.8416799	13	1	6 days	0.76	E Williams	2000 GA ₁₀₈
2000 GG ₁₀₈	14.3	0.15	20000406	19.51771	77.39500	107.02027	6.18271	0.0959167	2.8115358	17	1	6 days	0.68	E Williams	2000 GG ₁₀₈
2000 GH ₁₀₈	13.4	0.15	20000406	220.10831	281.34921	77.23091	8.85058	0.1546172	2.5472011	16	1	2 days	0.40	E Williams	2000 GH ₁₀₈
2000 GJ ₁₀₈	11.9	0.15	20000406	86.08143	278.23167	188.53881	17.13698	0.1602492	3.2318872	17	1	6 days	0.64	E Williams	2000 GJ ₁₀₈
2000 GK ₁₀₈	12.6	0.15	20000406	212.11947	206.25558	162.38974	8.84222	0.1981322	2.7304503	12	1	6 days	0.62	E Williams	2000 GK ₁₀₈
2000 GM ₁₀₈	14.3	0.15	20000406	307.48853	129.45652	152.70311	5.74927	0.2088053	2.2417526	13	1	6 days	0.33	E Williams	2000 GM ₁₀₈
2000 GN ₁₀₈	14.2	0.15	20000406	21.06603	97.35202	87.13012	5.21865	0.0722887	2.3930992	13	1	6 days	0.46	E Williams	2000 GN ₁₀₈
2000 GO ₁₀₈	14.8	0.15	20000406	341.53105	173.91749	58.65330	8.12602	0.1507088	2.2764871	12	1	6 days	0.39	E Williams	2000 GO ₁₀₈
2000 GP ₁₀₈	13.8	0.15	20000406	256.86006	186.85864	148.81682	6.08651	0.2118789	2.1960601	13	1	6 days	0.48	E Williams	2000 GP ₁₀₈
2000 GQ ₁₀₈	13.8	0.15	20000406	23.58317	58.85975	124.12768	5.52568	0.0451180	2.1899650	16	1	6 days	0.35	E Williams	2000 GQ ₁₀₈
2000 GR ₁₀₈	14.9	0.15	20000406	68.76618	20.98072	113.82662	6.12523	0.0491433	2.2794568	15	1	6 days	0.65	E Williams	2000 GR ₁₀₈
2000 GS ₁₀₈	13.6	0.15	20000406	48.69361	331.52938	164.68803	7.91763	0.2531983	2.9280355	12	1	6 days	0.56	E Williams	2000 GS ₁₀₈
2000 GT ₁₀₈	14.4	0.15	20000406	304.32093	105.31716	177.36268	8.40898	0.1635913	2.2392069	13	1	6 days	0.52	E Williams	2000 GT ₁₀₈
2000 GU ₁₀₈	12.2	0.15	20000406	76.88200	71.27292	49.80435	14.10715	0.1221212	2.7021175	10	1	4 days	0.29	E Williams	2000 GU ₁₀₈
2000 GY ₁₀₈	14.9	0.15	20000406	299.18951	234.25696	61.78701	8.57824	0.2171114	2.3414345	11	1	6 days	0.56	E Williams	2000 GY ₁₀₈
2000 GE ₁₀₉	13.0	0.15	20000406	310.08229	86.18350	182.92356	6.43600	0.1067686	3.1410827	10	1	6 days	0.30	E Williams	2000 GE ₁₀₉
2000 GF ₁₀₉	16.0	0.15	20000406	355.36599	49.96812	161.47003	2.74352	0.1108490	2.1421356	10	1	6 days	0.30	E Williams	2000 GF ₁₀₉
2000 GK ₁₀₉	12.5	0.15	20000406	179.86904	214.58761	175.68232	10.49754	0.0996323	2.9415331	13	1	6 days	0.43	E Williams	2000 GK ₁₀₉
2000 GL ₁₀₉	13.9	0.15	20000406	357.16471	30.52503	181.42240	9.47401	0.1464811	2.7217534	12	1	6 days	0.35	E Williams	2000 GL ₁₀₉
2000 GN ₁₀₉	14.7	0.15	20000406	321.40898	156.75613	100.48590	4.51268	0.1381878	2.3099757	12	1	6 days	0.42	E Williams	2000 GN ₁₀₉
2000 GO ₁₀₉	13.7	0.15	20000406	268.55269	162.50358	163.92409	6.52107	0.2250527	2.4612892	11	1	6 days	0.82	E Williams	2000 GO ₁₀₉
2000 GP ₁₀₉	14.1	0.15	20000406	138.52929	283.74280	143.10781	7.20586	0.0641764	2.4323811	18	1	6 days	0.74	E Williams	2000 GP ₁₀₉
2000 GR ₁₀₉	14.6	0.15	20000406	232.76411	168.18024	167.28976	12.77459	0.1637419	2.5173824	16	1	8 days	0.66	Williams	2000 GR ₁₀₉
2000 GB ₁₁₀	16.1	0.15	20000317	27.24405	63.01170	94.16916	2.11723	0.1097352	2.4082481	22	1	12 days	0.55	Williams	2000 GB ₁₁₀
2000 GL ₁₁₀	16.3	0.15	20000406	283.23443	84.16032	202.80806	14.80852	0.1265879	2.5692566	15	1	10 days	0.38	Williams	2000 GL ₁₁₀
2000 GZ ₁₁₀	15.4	0.15	20000406	112.29312	150.42823	276.48430	1.98694	0.1605478	2.5990218	14	1	9 days	0.57	Williams	2000 GZ ₁₁₀
2000 GL ₁₁₁	13.5	0.15	20000406	89.59164	243.22850	217.14710	8.72853	0.0339129	3.0664781	22	1	8 days	0.49	Williams	2000 GL ₁₁₁
2000 GR ₁₁₁	16.5	0.15	20000317	325.70732	68.05224	176.98422	0.63737	0.2470641	3.0403872	29	1	15 days	0.78	Williams	2000 GR ₁₁₁
2000 GS ₁₁₁	16.2	0.15	20000406	106.63164	57.26961	22.89882	6.39538	0.0871170	2.2154323	30	1	8 days	0.68	Williams	2000 GS ₁₁₁
2000 GW ₁₁₁	14.8	0.15	20000406	230.64939	334.78065	7.55527	7.60914	0.1899382	2.4586246	16	1	8 days	0.41	Williams	2000 GW ₁₁₁

2000 APR. 18

M.P.C. 40527

2000 GX ₁₁₁	15.1	0.15	20000406	20.03789	343.49929	184.24301	10.07041	0.1721230	3.1122184	16	1	7 days	0.47	Williams	2000 GX ₁₁₁
2000 GZ ₁₁₁	14.4	0.15	20000317	111.51918	282.04614	153.69624	5.45284	0.0500869	2.7747519	30	1	12 days	0.59	Williams	2000 GZ ₁₁₁
2000 GA ₁₁₂	14.4	0.15	20000317	321.89071	50.48607	188.32309	14.88877	0.1004611	2.8377350	27	1	12 days	0.42	Williams	2000 GA ₁₁₂
2000 GD ₁₁₂	14.4	0.15	20000406	244.19562	288.07255	34.01694	12.61991	0.1320140	2.9787422	14	1	7 days	0.63	Williams	2000 GD ₁₁₂
2000 GG ₁₁₂	14.8	0.15	20000317	87.29582	50.53536	33.92415	9.55273	0.1661573	2.6248500	23	1	12 days	0.57	Williams	2000 GG ₁₁₂
2000 GJ ₁₁₂	15.4	0.15	20000406	9.64983	153.14177	25.17256	9.28546	0.0979748	3.0335146	16	1	7 days	0.58	Williams	2000 GJ ₁₁₂
2000 GK ₁₁₂	15.6	0.15	20000317	266.16347	270.83113	36.07493	3.59658	0.1800842	2.4255561	23	1	15 days	0.51	Williams	2000 GK ₁₁₂
2000 GU ₁₁₂	14.3	0.15	20000406	239.39117	317.90573	8.61496	13.82774	0.2735602	2.6620354	13	1	5 days	0.31	E Williams	2000 GU ₁₁₂
2000 GY ₁₁₂	15.7	0.15	20000406	45.38559	69.38440	60.43549	2.74462	0.1061808	2.4394929	13	1	5 days	0.47	E Williams	2000 GY ₁₁₂
2000 GZ ₁₁₂	15.7	0.15	20000406	36.14125	57.70074	82.76240	3.12488	0.1100886	2.3597781	12	1	5 days	0.43	E Williams	2000 GZ ₁₁₂
2000 GA ₁₁₃	16.0	0.15	20000406	331.46145	67.08766	154.60034	4.44064	0.1054384	2.3115750	11	1	5 days	0.42	E Williams	2000 GA ₁₁₃
2000 GC ₁₁₃	14.6	0.15	20000406	72.64647	286.48933	171.87706	13.87082	0.1397925	3.1764620	11	1	5 days	0.56	E Williams	2000 GC ₁₁₃
2000 GD ₁₁₃	17.9	0.15	20000406	312.56762	238.00562	28.34652	6.94299	0.1941462	2.2396490	11	1	8 days	0.51	Williams	2000 GD ₁₁₃
2000 GG ₁₁₃	15.8	0.15	20000406	265.44685	281.95284	30.00109	4.68796	0.2184232	2.2396371	13	1	4 days	0.37	E Williams	2000 GG ₁₁₃
2000 GJ ₁₁₃	15.0	0.15	20000406	276.20253	105.28095	205.13415	1.80899	0.2509927	2.4549574	25	1	6 days	0.65	E Williams	2000 GJ ₁₁₃
2000 GM ₁₁₃	15.4	0.15	20000406	301.19204	221.77253	43.46236	3.51380	0.0602169	2.6685934	18	1	7 days	0.49	Williams	2000 GM ₁₁₃
2000 GD ₁₁₄	13.2	0.15	20000406	284.32828	299.13581	341.65907	3.79234	0.0326010	2.7809955	18	1	6 days	0.44	E Williams	2000 GD ₁₁₄
2000 GE ₁₁₄	13.6	0.15	20000406	227.70881	123.89915	217.87606	5.11891	0.1091534	2.3958292	16	1	14 days	0.49	Williams	2000 GE ₁₁₄
2000 GN ₁₁₄	16.2	0.15	20000406	24.59580	229.63368	294.22800	2.54490	0.1226618	2.5974271	13	1	6 days	0.48	E Williams	2000 GN ₁₁₄
2000 GT ₁₁₄	14.0	0.15	20000317	299.78176	279.91207	8.11517	11.59025	0.2522254	2.6625575	21	1	12 days	0.67	Williams	2000 GT ₁₁₄
2000 GZ ₁₁₄	16.5	0.15	20000406	318.06145	90.17403	160.10762	5.16312	0.2508287	2.4546224	11	1	2 days	0.83	E Williams	2000 GZ ₁₁₄
2000 GD ₁₁₅	14.3	0.15	20000406	260.70098	283.27375	25.80250	12.07089	0.2464974	2.8905601	10	1	3 days	0.39	E Williams	2000 GD ₁₁₅
2000 GE ₁₁₅	16.7	0.15	20000406	333.87708	86.38151	138.26205	3.47467	0.1548031	2.2799272	13	1	3 days	0.48	E Williams	2000 GE ₁₁₅
2000 GJ ₁₁₅	12.6	0.15	20000406	85.16030	130.71183	306.24231	5.27445	0.2004831	3.1903445	12	1	3 days	0.38	E Williams	2000 GJ ₁₁₅
2000 GK ₁₁₅	16.1	0.15	20000406	357.78486	85.70417	104.51953	3.35175	0.1278774	2.5146959	11	1	3 days	0.46	E Williams	2000 GK ₁₁₅
2000 GM ₁₁₅	15.0	0.15	20000406	24.28705	130.02295	19.20882	15.14511	0.2123779	3.2249261	11	1	3 days	0.36	E Williams	2000 GM ₁₁₅
2000 GN ₁₁₅	15.5	0.15	20000406	318.00210	43.96958	213.96509	5.20304	0.2939527	2.5976900	11	1	3 days	0.45	E Williams	2000 GN ₁₁₅
2000 GO ₁₁₅	17.1	0.15	20000406	321.15478	139.01339	121.53851	2.35776	0.2914267	2.3838478	18	1	3 days	0.68	E Williams	2000 GO ₁₁₅
2000 GP ₁₁₅	14.5	0.15	20000406	284.44873	176.49389	105.06409	2.62701	0.1106274	3.1532379	14	1	3 days	0.54	E Williams	2000 GP ₁₁₅
2000 GQ ₁₁₆	18.2	0.15	20000406	325.61617	230.02860	18.07739	12.33684	0.2264262	2.5863798	13	1	10 days	0.39	Williams	2000 GQ ₁₁₆
2000 GU ₁₁₈	18.1	0.15	20000406	30.43384	165.64166	339.28913	2.20345	0.1331519	2.3568005	9	1	10 days	0.25	Williams	2000 GU ₁₁₈
2000 GL ₁₁₉	16.7	0.15	20000406	65.84355	309.82803	188.79793	13.43906	0.1436391	2.7381422	9	1	7 days	0.13	Williams	2000 GL ₁₁₉
2000 GN ₁₁₉	17.3	0.15	20000406	19.76707	264.48545	259.32454	0.38471	0.2107102	3.0502668	12	1	6 days	0.56	E Williams	2000 GN ₁₁₉
2000 GP ₁₁₉	16.9	0.15	20000406	258.32783	104.15816	199.09953	5.71732	0.0668137	2.7772286	9	1	6 days	0.56	E Williams	2000 GP ₁₁₉
2000 GR ₁₁₉	16.0	0.15	20000406	158.44952	20.71667	6.07178	2.32131	0.2786907	2.5821172	9	1	6 days	0.14	E Williams	2000 GR ₁₁₉
2000 GV ₁₁₉	18.6	0.15	20000406	356.76932	296.92477	262.71456	0.16010	0.1737904	2.3573112	14	1	6 days	0.39	E Williams	2000 GV ₁₁₉
2000 GC ₁₂₀	17.4	0.15	20000406	58.51568	278.18716	194.38660	2.14513	0.2122086	2.6005843	14	1	6 days	0.43	E Williams	2000 GC ₁₂₀
2000 GD ₁₂₀	17.4	0.15	20000406	86.96734	262.41575	194.47680	1.36858	0.0934550	2.3173454	13	1	6 days	0.48	E Williams	2000 GD ₁₂₀
2000 GE ₁₂₀	19.7	0.15	20000406	357.46849	12.75441	186.03121	1.47533	0.1600290	2.1887703	9	1	7 days	0.40	Williams	2000 GE ₁₂₀
2000 GK ₁₂₀	16.8	0.15	20000406	193.33691	349.34043	16.51210	9.70974	0.2192509	2.2232895	12	1	6 days	0.52	E Williams	2000 GK ₁₂₀
2000 GL ₁₂₀	19.9	0.15	20000406	318.28385	227.88814	26.77053	3.21529	0.1914380	2.1427486	9	1	7 days	0.34	E Williams	2000 GL ₁₂₀
2000 GQ ₁₂₀	16.8	0.15	20000406	207.80899	186.19166	171.18734	2.46042	0.2253289	2.6300229	9	1	7 days	0.24	E Williams	2000 GQ ₁₂₀
2000 GR ₁₂₀	16.1	0.15	20000406	226.74813	158.67504	186.61832	5.67913	0.2392508	2.5507666	9	1	7 days	0.24	E Williams	2000 GR ₁₂₀
2000 GS ₁₂₀	16.5	0.15	20000406	119.26750	26.69084	48.13184	2.01860	0.0152630	2.9662453	12	1	7 days	0.42	E Williams	2000 GS ₁₂₀
2000 GU ₁₂₀	17.6	0.15	20000406	208.94243	317.22169	37.46999	2.62341	0.1699235	2.3823877	9	1	7 days	0.24	E Williams	2000 GU ₁₂₀
2000 GV ₁₂₀	17.0	0.15	20000406	156.37963	205.63784	185.27231	5.73813	0.2373979	2.3794306	9	1	7 days	0.19	E Williams	2000 GV ₁₂₀
2000 GA ₁₂₁	16.8	0.15	20000406	166.12020	5.21927	21.81254	10.95835	0.1105129	2.7674310	9	1	7 days	0.22	E Williams	2000 GA ₁₂₁
2000 GJ ₁₂₁	16.2	0.15	20000406	190.41554	205.96981	162.29682	2.13995	0.2075468	2.7005174	16	1	13 days	0.50	Williams	2000 GJ ₁₂₁
2000 GK ₁₂₁	17.1	0.15	20000406	51.12926	102.70282	23.54561	7.57737	0.1767624	2.7692067	16	1	11 days	0.62	Williams	2000 GK ₁₂₁
2000 GL ₁₂₁	17.5	0.15	20000406	115.56580	250.19785	186.08935	7.07860	0.0379050	2.7524012	9	1	6 days	0.19	E Williams	2000 GL ₁₂₁
2000 GQ ₁₂₁	18.1	0.15	20000406	295.24646	186.43209	85.93718	0.73579	0.1281591	2.2670459	16	1	9 days	0.31	Williams	2000 GQ ₁₂₁
2000 GV ₁₂₁	17.3	0.15	20000406	339.78225	130.48732	114.64339	5.95866	0.2000320	2.3965369	9	1	4 days	0.18	E Williams	2000 GV ₁₂₁
2000 GW ₁₂₁	16.2	0.15	20000406	137.99918	332.75521	104.67625	9.09726	0.0931801	2.8427028	9	1	4 days	0.17	E Williams	2000 GW ₁₂₁

2000 GY ₁₂₁	16.3	0.15	20000406	31.33799	72.07873	103.85996	7.25209	0.1437714	2.4028112	9	1	4 days	0.17	E Williams	2000 GY ₁₂₁
2000 GB ₁₂₂	17.1	0.15	20000406	18.20761	109.13356	76.10950	11.36251	0.2790134	2.9869494	9	1	4 days	0.16	E Williams	2000 GB ₁₂₂
2000 GD ₁₂₂	14.0	0.15	20000406	78.06264	28.53696	102.92853	9.11750	0.1054903	2.6916485	22	1	7 days	0.52	Williams	2000 GD ₁₂₂
2000 GE ₁₂₂	16.2	0.15	20000406	291.90461	188.04149	114.03355	7.67457	0.1241590	2.4460943	9	1	4 days	0.18	E Williams	2000 GE ₁₂₂
2000 GH ₁₂₂	17.6	0.15	20000406	319.87323	67.67408	179.89429	3.95033	0.1385315	2.8663556	9	1	5 days	0.17	E Williams	2000 GH ₁₂₂
2000 GN ₁₂₂	14.0	0.15	20000406	283.05611	240.99690	66.13456	14.05251	0.2428299	2.5689474	14	1	6 days	0.86	E Williams	2000 GN ₁₂₂
2000 GV ₁₂₂	13.4	0.15	20000406	310.20997	95.94351	190.48774	13.08231	0.2211159	2.7712631	14	1	2 days	0.37	E Williams	2000 GV ₁₂₂
2000 GX ₁₂₂	14.6	0.15	20000406	320.16508	106.84410	153.77189	5.85008	0.1316318	2.2168965	12	1	2 days	0.39	E Williams	2000 GX ₁₂₂
2000 GY ₁₂₂	16.0	0.15	20000406	307.77317	215.41722	41.74404	21.81785	0.0266333	1.8836534	22	1	9 days	0.63	Williams	2000 GY ₁₂₂
2000 GK ₁₂₃	14.5	0.15	20000406	350.03885	111.32911	117.62485	4.63705	0.1388722	2.6386117	18	1	6 days	0.39	E Williams	2000 GK ₁₂₃
2000 GL ₁₂₃	14.3	0.15	20000406	288.65887	193.90836	118.88602	4.96184	0.2095550	2.3064188	13	1	6 days	0.34	E Williams	2000 GL ₁₂₃
2000 GM ₁₂₃	12.9	0.15	20000406	151.95614	231.35420	192.91199	12.19751	0.1012964	2.5438932	15	1	7 days	0.39	Williams	2000 GM ₁₂₃
2000 GN ₁₂₃	13.2	0.15	20000406	191.01302	216.37187	176.07507	6.87159	0.1514952	2.2458403	12	1	6 days	0.53	E Williams	2000 GN ₁₂₃
2000 GP ₁₂₃	12.9	0.15	20000406	288.43129	243.08625	74.29031	11.78765	0.2152420	2.6749429	13	1	6 days	0.44	E Williams	2000 GP ₁₂₃
2000 GR ₁₂₃	12.5	0.15	20000406	14.20031	9.66250	194.94930	13.18282	0.1003499	2.6651583	15	1	6 days	0.32	E Williams	2000 GR ₁₂₃
2000 GV ₁₂₃	14.1	0.15	20000406	291.34593	144.97090	153.77832	7.48031	0.1583319	2.4638662	15	1	6 days	0.49	E Williams	2000 GV ₁₂₃
2000 GW ₁₂₃	14.0	0.15	20000406	6.07954	141.69669	61.50495	11.17743	0.2200909	3.1535859	13	1	6 days	0.44	E Williams	2000 GW ₁₂₃
2000 GX ₁₂₃	14.1	0.15	20000406	23.67729	122.92610	55.65958	13.01946	0.1686820	2.6238313	15	1	6 days	0.86	E Williams	2000 GX ₁₂₃
2000 GY ₁₂₃	14.1	0.15	20000406	85.92079	0.62700	118.89260	5.40979	0.0591557	2.2202719	15	1	6 days	0.39	E Williams	2000 GY ₁₂₃
2000 GZ ₁₂₃	15.3	0.15	20000406	303.52457	135.40608	156.75033	6.86441	0.2184634	2.2791541	14	1	6 days	0.33	E Williams	2000 GZ ₁₂₃
2000 GA ₁₂₄	13.4	0.15	20000406	159.17765	298.86887	110.92293	7.33011	0.1981625	2.4831344	10	1	6 days	0.48	E Williams	2000 GA ₁₂₄
2000 GB ₁₂₄	13.0	0.15	20000406	252.59636	274.48420	49.45771	24.74646	0.0447575	2.5891515	18	1	6 days	0.63	E Williams	2000 GB ₁₂₄
2000 GD ₁₂₄	15.3	0.15	20000406	314.90395	198.50107	83.98150	8.19003	0.2583429	2.3771715	13	1	6 days	0.76	E Williams	2000 GD ₁₂₄
2000 GF ₁₂₄	14.2	0.15	20000406	52.39112	352.30464	161.69747	6.21243	0.0882755	2.5113280	12	1	6 days	0.64	E Williams	2000 GF ₁₂₄
2000 GG ₁₂₄	13.5	0.15	20000406	243.48202	290.45824	57.93352	17.56226	0.1796406	2.4158642	14	1	6 days	0.88	E Williams	2000 GG ₁₂₄
2000 GH ₁₂₄	13.3	0.15	20000406	251.69087	182.76497	154.59731	7.83656	0.1387206	2.2798746	17	1	6 days	0.54	E Williams	2000 GH ₁₂₄
2000 GJ ₁₂₄	14.8	0.15	20000406	306.62163	196.89905	83.17610	10.36537	0.1352237	2.5060977	14	1	6 days	0.43	E Williams	2000 GJ ₁₂₄
2000 GK ₁₂₄	14.0	0.15	20000406	21.20585	44.87125	145.54793	7.28475	0.0456659	2.3123960	14	1	6 days	0.60	E Williams	2000 GK ₁₂₄
2000 GL ₁₂₄	12.8	0.15	20000406	209.00761	260.39238	113.20809	8.88484	0.0997101	2.7278868	15	1	6 days	0.73	E Williams	2000 GL ₁₂₄
2000 GM ₁₂₄	13.7	0.15	20000406	14.14572	114.38187	79.63244	11.26676	0.1736185	2.7712639	13	1	6 days	0.55	E Williams	2000 GM ₁₂₄
2000 GP ₁₂₄	14.9	0.15	20000406	305.45128	160.97787	139.86719	6.76085	0.2822733	2.2822166	14	1	6 days	0.48	E Williams	2000 GP ₁₂₄
2000 GU ₁₂₄	13.3	0.15	20000406	22.73652	13.97484	176.89663	13.18315	0.0777522	2.5931162	14	1	6 days	0.53	E Williams	2000 GU ₁₂₄
2000 GV ₁₂₄	12.0	0.15	20000406	102.42876	26.46669	73.17144	18.37003	0.1766388	3.1162386	10	1	6 days	0.58	E Williams	2000 GV ₁₂₄
2000 GW ₁₂₄	14.7	0.15	20000406	214.53866	201.05213	171.68462	10.29695	0.1103918	2.4161627	18	1	7 days	0.49	Williams	2000 GW ₁₂₄
2000 GX ₁₂₄	15.8	0.15	20000406	334.54885	131.96092	119.85870	5.40563	0.1848263	2.3011168	12	1	5 days	0.56	E Williams	2000 GX ₁₂₄
2000 GA ₁₂₅	12.5	0.15	20000406	120.42522	324.55511	134.61620	10.81586	0.0468396	3.0178413	14	1	6 days	0.46	E Williams	2000 GA ₁₂₅
2000 GB ₁₂₅	14.9	0.15	20000406	335.11824	98.80744	154.69070	8.91386	0.1846639	2.3637424	11	1	6 days	0.43	E Williams	2000 GB ₁₂₅
2000 GC ₁₂₅	11.8	0.15	20000406	103.71502	266.05050	199.03292	16.43635	0.1491058	2.4942858	14	1	6 days	0.48	E Williams	2000 GC ₁₂₅
2000 GD ₁₂₅	14.2	0.15	20000406	347.15381	56.58452	181.60245	13.11198	0.1107642	2.5746272	13	1	6 days	0.56	E Williams	2000 GD ₁₂₅
2000 GE ₁₂₅	15.2	0.15	20000406	7.00786	44.20613	163.16402	10.07190	0.2425292	2.4180447	14	1	6 days	0.39	E Williams	2000 GE ₁₂₅
2000 GF ₁₂₅	12.4	0.15	20000406	57.93172	320.28333	189.71872	16.83435	0.1876471	3.1571944	15	1	6 days	0.37	E Williams	2000 GF ₁₂₅
2000 GJ ₁₂₅	12.8	0.15	20000406	302.33586	107.57939	175.80515	9.88274	0.0863110	3.0546343	11	1	6 days	0.58	E Williams	2000 GJ ₁₂₅
2000 GL ₁₂₅	13.9	0.15	20000406	235.83065	208.37152	139.93872	8.34841	0.1032038	2.5160213	10	1	6 days	0.64	E Williams	2000 GL ₁₂₅
2000 GO ₁₂₅	13.6	0.15	20000406	122.46763	299.56250	150.41608	9.55178	0.0469793	2.5451713	14	1	6 days	0.52	E Williams	2000 GO ₁₂₅
2000 GP ₁₂₅	12.2	0.15	20000406	279.41180	174.45434	140.70738	9.27559	0.0912802	3.3511209	11	1	6 days	0.47	E Williams	2000 GP ₁₂₅
2000 GQ ₁₂₅	13.3	0.15	20000406	309.86750	98.99023	179.50061	14.95022	0.0791345	2.6093546	15	1	6 days	0.61	E Williams	2000 GQ ₁₂₅
2000 GY ₁₂₅	14.2	0.15	20000406	7.04930	18.70868	193.25773	12.90416	0.1888268	2.6364770	15	1	6 days	0.54	E Williams	2000 GY ₁₂₅
2000 GB ₁₂₆	12.2	0.15	20000406	307.05632	238.37951	58.46916	24.88682	0.2082888	2.4352503	14	1	6 days	0.42	E Williams	2000 GB ₁₂₆
2000 GC ₁₂₆	14.6	0.15	20000406	265.90698	184.61431	143.60614	5.28164	0.0938824	2.0952640	13	1	6 days	0.60	E Williams	2000 GC ₁₂₆
2000 GE ₁₂₆	13.0	0.15	20000406	336.77207	64.69365	197.70465	11.04002	0.1909754	2.9459579	14	1	6 days	0.48	E Williams	2000 GE ₁₂₆
2000 GG ₁₂₆	14.0	0.15	20000406	44.90767	305.62721	215.18937	22.76087	0.1999186	2.2671239	15	1	6 days	0.51	Williams	2000 GG ₁₂₆
2000 GJ ₁₂₆	14.5	0.15	20000406	288.74712	181.56002	139.59024	6.84743	0.1961979	2.1649325	12	1	6 days	0.71	E Williams	2000 GJ ₁₂₆
2000 GL ₁₂₆	12.8	0.15	20000406	49.01484	317.48403	211.65942	14.98805	0.1695929	2.8218275	12	1	6 days	0.80	E Williams	2000 GL ₁₂₆

2000 APR. 18

M.P.C. 40529

2000 GM ₁₂₆	13.2	0.15	20000406	336.36054	55.57539	219.54499	26.26411	0.2715085	2.8933164	12	1	6 days	0.97	E Williams	2000 GM ₁₂₆
2000 GN ₁₂₆	13.7	0.15	20000406	310.57126	104.99189	199.82435	13.68527	0.2065133	2.5982084	11	1	6 days	0.62	E Williams	2000 GN ₁₂₆
2000 GO ₁₂₆	14.3	0.15	20000406	337.62036	76.09230	192.43494	13.18653	0.2688231	2.4418734	12	1	6 days	0.43	E Williams	2000 GO ₁₂₆
2000 GP ₁₂₆	13.8	0.15	20000406	319.98240	123.90780	162.43133	6.58426	0.1894898	2.1850046	13	1	6 days	0.66	E Williams	2000 GP ₁₂₆
2000 GW ₁₂₆	14.7	0.15	20000406	354.05335	72.54135	171.22450	9.94808	0.1389650	2.4398541	13	1	6 days	0.41	E Williams	2000 GW ₁₂₆
2000 GA ₁₂₇	13.3	0.15	20000406	343.14135	134.94502	132.87833	7.08292	0.1967920	2.4005475	12	1	6 days	0.35	E Williams	2000 GA ₁₂₇
2000 GE ₁₂₇	13.0	0.15	20000406	290.67372	145.24149	176.68351	13.90027	0.1652142	2.5554981	12	1	6 days	0.51	E Williams	2000 GE ₁₂₇
2000 GF ₁₂₇	13.2	0.15	20000406	322.31355	129.41300	155.70301	13.01052	0.1623675	2.5970428	11	1	6 days	0.69	E Williams	2000 GF ₁₂₇
2000 GG ₁₂₇	12.9	0.15	20000406	280.73831	157.07577	184.45219	13.54544	0.1839476	2.6633508	11	1	6 days	0.55	E Williams	2000 GG ₁₂₇
2000 GH ₁₂₇	14.0	0.15	20000406	333.18741	195.74203	90.06946	16.82893	0.3335863	2.7733848	15	1	6 days	0.63	Williams	2000 GH ₁₂₇
2000 GL ₁₂₇	14.5	0.15	20000406	327.86403	146.75204	99.85544	14.05433	0.1414509	2.6523266	12	1	6 days	0.50	E Williams	2000 GL ₁₂₇
2000 GQ ₁₂₇	16.9	0.15	20000406	288.03308	298.64056	16.79403	49.01343	0.4058779	2.2752581	45	1	8 days	0.65	Williams	2000 GQ ₁₂₇
2000 GR ₁₂₇	16.1	0.15	20000406	277.00105	305.68791	19.13438	3.82167	0.3942693	2.1050488	74	1	8 days	0.54	Williams	2000 GR ₁₂₇
2000 GS ₁₂₇	15.3	0.15	20000406	217.57549	150.06469	163.12780	30.42593	0.1695344	2.5714334	14	1	6 days	0.24	Williams	2000 GS ₁₂₇
2000 GT ₁₂₇	22.6	0.15	20000406	350.85093	206.87128	17.09340	14.52145	0.4735124	2.4351589	13	1	7 days	0.34	Williams	2000 GT ₁₂₇
2000 GU ₁₂₇	18.6	0.15	20000406	335.64065	137.85726	172.88764	8.40585	0.7247095	2.1195660	91	1	9 days	0.75	Williams	2000 GU ₁₂₇
2000 GV ₁₂₇	19.2	0.15	20000406	358.37736	2.10387	197.36715	17.92765	0.6213612	2.8186804	57	1	8 days	0.51	Marsden	2000 GV ₁₂₇
2000 GW ₁₂₇	19.5	0.15	20000406	14.78953	332.30529	127.43257	6.55243	0.7336298	2.2731859	30	1	3 days	0.47	Williams	2000 GW ₁₂₇
2000 GX ₁₂₇	18.1	0.15	20000406	145.93672	3.80218	44.01835	20.64867	0.3665218	1.1410361	34	1	5 days	0.80	Williams	2000 GX ₁₂₇
2000 GA ₁₂₈	18.0	0.15	20000406	349.49194	210.29228	349.26566	2.99174	0.1535904	2.4336646	9	1	10 days	0.31	Williams	2000 GA ₁₂₈
2000 GA ₁₃₁	16.8	0.15	20000406	70.14108	270.79548	219.53439	3.07658	0.0531866	2.9757766	9	1	6 days	0.47	E Williams	2000 GA ₁₃₁
2000 GB ₁₃₁	18.3	0.15	20000406	71.41019	247.39068	224.00587	1.97509	0.1947957	2.4062670	9	1	6 days	0.43	E Williams	2000 GB ₁₃₁
2000 GD ₁₃₁	17.3	0.15	20000406	246.83543	318.19488	21.58408	5.25214	0.2174482	2.3770260	9	1	6 days	0.25	E Williams	2000 GD ₁₃₁
2000 GG ₁₃₁	15.9	0.15	20000406	177.37777	5.84250	24.50959	1.88135	0.0404970	2.9030990	9	1	6 days	0.13	E Williams	2000 GG ₁₃₁
2000 GK ₁₃₁	17.8	0.15	20000406	59.58798	287.06407	208.17297	1.48097	0.1093985	2.3005068	9	1	6 days	0.20	E Williams	2000 GK ₁₃₁
2000 GM ₁₃₁	17.0	0.15	20000406	133.88694	218.48556	204.84468	1.99347	0.1439168	2.2833455	9	1	6 days	0.15	E Williams	2000 GM ₁₃₁
2000 GP ₁₃₁	18.6	0.15	20000406	285.24556	277.57511	33.18915	4.39980	0.2456988	2.3687617	9	1	6 days	0.28	E Williams	2000 GP ₁₃₁
2000 GE ₁₃₂	15.2	0.15	20000406	225.31426	276.70495	90.96441	9.91523	0.1404025	3.0227730	9	1	3 days	0.12	E Williams	2000 GE ₁₃₂
2000 GJ ₁₃₂	14.8	0.15	20000406	55.91569	86.64259	62.26515	22.18806	0.1576040	3.2468564	9	1	3 days	0.32	E Williams	2000 GJ ₁₃₂
2000 GT ₁₃₂	15.8	0.15	20000406	298.73556	238.50967	51.43785	22.03097	0.2170160	2.3034581	15	1	6 days	0.76	E Williams	2000 GT ₁₃₂
2000 GU ₁₃₂	16.0	0.15	20000406	271.08626	118.81026	187.69745	21.83148	0.0821381	1.9731540	11	1	6 days	0.59	E Williams	2000 GU ₁₃₂
2000 GY ₁₃₂	15.6	0.15	20000406	313.61851	93.32071	174.54461	9.35189	0.1593030	2.5185374	10	1	6 days	0.45	Williams	2000 GY ₁₃₂
2000 GZ ₁₃₂	13.9	0.15	20000406	54.15957	225.32556	271.91712	11.38044	0.1076610	2.6702721	6	1	4 days	0.30	Williams	2000 GZ ₁₃₂
2000 GA ₁₃₃	14.6	0.15	20000406	75.82107	281.24653	212.73369	2.19683	0.0779506	2.7873199	9	1	2 days	0.24	E Marsden	2000 GA ₁₃₃
2000 GB ₁₃₃	16.8	0.15	20000406	359.20109	2.01753	213.67664	3.79614	0.1608776	2.4641407	9	1	2 days	0.27	E Marsden	2000 GB ₁₃₃
2000 GE ₁₃₃	13.5	0.15	20000406	33.10934	45.38989	130.15886	9.74066	0.0388238	2.2627227	9	1	5 days	0.27	Williams	2000 GE ₁₃₃
2000 GQ ₁₃₃	15.1	0.15	20000406	295.37910	145.60859	151.34467	7.21256	0.1994439	2.2231644	12	1	6 days	0.47	E Williams	2000 GQ ₁₃₃
2000 GU ₁₃₄	14.6	0.15	20000406	269.01184	175.93300	138.34348	7.08389	0.2068650	2.3114949	13	1	6 days	0.41	E Williams	2000 GU ₁₃₄
2000 GW ₁₃₄	14.6	0.15	20000406	318.93511	92.96438	166.86214	7.73993	0.1917776	2.7623207	14	1	6 days	0.25	E Williams	2000 GW ₁₃₄
2000 GX ₁₃₄	16.2	0.15	20000406	334.92307	153.80371	80.09904	5.02294	0.1431511	2.1914994	13	1	6 days	0.67	E Williams	2000 GX ₁₃₄
2000 GY ₁₃₄	13.7	0.15	20000406	320.18716	74.20247	176.96357	13.61615	0.1051159	3.0529089	13	1	6 days	0.43	E Williams	2000 GY ₁₃₄
2000 GZ ₁₃₄	12.9	0.15	20000406	240.87409	195.87384	148.88939	11.31046	0.2871400	2.7315846	14	1	6 days	0.52	E Williams	2000 GZ ₁₃₄
2000 GA ₁₃₅	14.7	0.15	20000406	295.77227	106.64058	165.35922	14.14533	0.0557924	2.6438824	13	1	6 days	0.53	E Williams	2000 GA ₁₃₅
2000 GC ₁₃₅	13.6	0.15	20000406	267.06950	208.15630	102.91671	10.21427	0.1456022	3.2678543	14	1	6 days	0.50	E Williams	2000 GC ₁₃₅
2000 GE ₁₃₅	14.4	0.15	20000406	295.35087	228.19530	47.39270	18.72743	0.0803735	3.1390669	11	1	5 days	0.62	E Williams	2000 GE ₁₃₅
2000 GJ ₁₃₅	14.3	0.15	20000406	116.65252	0.72447	82.52994	13.68878	0.0172295	3.0515442	11	1	6 days	0.64	E Williams	2000 GJ ₁₃₅
2000 GK ₁₃₅	13.9	0.15	20000406	108.78063	292.52721	152.63027	13.70161	0.0940108	2.5833544	12	1	6 days	0.39	E Williams	2000 GK ₁₃₅
2000 GL ₁₃₅	13.8	0.15	20000406	176.77226	258.90462	128.17171	12.27954	0.1117111	2.7514391	15	1	6 days	0.56	E Williams	2000 GL ₁₃₅
2000 GM ₁₃₅	15.0	0.15	20000406	309.04136	177.34832	87.91037	7.54337	0.1109506	2.3503160	13	1	6 days	0.56	E Williams	2000 GM ₁₃₅
2000 GN ₁₃₅	14.8	0.15	20000406	270.17002	171.08877	152.87537	7.91709	0.2446827	2.5668755	15	1	6 days	0.55	E Williams	2000 GN ₁₃₅
2000 GO ₁₃₅	13.2	0.15	20000406	216.27439	225.17160	132.65600	13.09520	0.1336060	2.9326133	11	1	6 days	0.43	E Williams	2000 GO ₁₃₅
2000 GP ₁₃₅	14.1	0.15	20000406	209.27715	260.02369	101.15687	12.53169	0.0903960	2.6562278	16	1	6 days	0.52	E Williams	2000 GP ₁₃₅
2000 GT ₁₃₅	14.9	0.15	20000406	347.71505	165.80299	60.15142	16.53367	0.2674463	3.0222459	16	1	6 days	0.67	E Williams	2000 GT ₁₃₅

2000 GV ₁₃₅	14.8	0.15	20000406	348.11466	120.61440	102.72361	7.97910	0.0684779	2.7357210	11	1	6 days	0.49	E	Williams	2000 GV ₁₃₅	
2000 GW ₁₃₅	14.1	0.15	20000406	353.60625	68.01598	150.69144	8.03755	0.1491209	2.8096959	16	1	6 days	0.29	E	Williams	2000 GW ₁₃₅	
2000 GY ₁₃₅	15.7	0.15	20000406	326.74936	100.10367	146.41652	7.53193	0.1235451	2.2545899	17	1	6 days	0.61	E	Williams	2000 GY ₁₃₅	
2000 GM ₁₃₇	14.5	0.15	20000406	345.88107	102.92082	90.48756	15.85402	0.1110209	7.8667952	10	1	11 days	0.15	E	Marsden	2000 GM ₁₃₇	
2000 GF ₁₄₃	15.6	0.15	20000406	298.95977	146.33329	145.80453	7.38758	0.2019694	2.4561715	11	1	8 days	0.41		Williams	2000 GF ₁₄₃	
2000 GN ₁₄₆	17.9	0.15	20000406	235.39835	183.96359	158.41125	1.83419	0.2878352	2.1941490	14	1	6 days	0.98	E	Williams	2000 GN ₁₄₆	
2000 GO ₁₄₆	16.0	0.15	20000406	210.84218	159.43564	162.29805	19.10987	0.2932742	2.5945620	9	1	4 days	0.45		Williams	2000 GO ₁₄₆	
2000 GQ ₁₄₆	17.7	0.15	20000406	30.77158	128.06412	36.43023	23.44089	0.1965586	1.3276944	38	1	5 days	0.81		Williams	2000 GQ ₁₄₆	
2000 GR ₁₄₆	16.3	0.15	20000406	41.92844	30.59577	77.89579	15.35090	0.5877703	1.4683614	51	1	4 days	0.61		Williams	2000 GR ₁₄₆	
2000 GS ₁₄₆	18.4	0.15	20000406	75.63644	79.56563	33.65144	46.45992	0.1975017	1.2963741	45	1	9 days	1.11		Williams	2000 GS ₁₄₆	
2000 GV ₁₄₆	7.8	0.15	20000317	0.00000	110.32728	94.38158	3.79042	0.0000000	41.7857775	5	1	3 days	0.20	E	Marsden	2000 GV ₁₄₆	
2000 GW ₁₄₆	8.1	0.15	20000317	0.00000	179.95707	8.91312	28.97548	0.0000000	41.2054594	6	1	1 days	0.18	E	Marsden	2000 GW ₁₄₆	
2000 GX ₁₄₆	7.9	0.15	20000317	0.00000	308.42543	240.81143	0.35864	0.0000000	44.6320867	7	1	2 days	0.09	E	Marsden	2000 GX ₁₄₆	
2000 GY ₁₄₆	8.0	0.15	20000317	0.00000	175.57591	13.91492	2.43567	0.0000000	44.7497556	6	1	2 days	0.18	E	Marsden	2000 GY ₁₄₆	
2000 GZ ₁₄₆	7.8	0.15	20000317	0.00000	357.39520	215.69710	1.99860	0.0000000	43.8778269	6	1	2 days	0.16	E	Marsden	2000 GZ ₁₄₆	
2013 P-L	15.5	0.15	20000226	59.82358	346.07157	334.16943	4.07027	0.2254892	2.2003493	66	3	1960–1999	0.53	M-v	2	Williams	36578 2013 P-L
2022 P-L	13.6	0.15	20000226	284.23398	295.45187	352.21630	5.08472	0.0416145	2.7653832	38	4	1960–2000	0.68	M-v	1	Williams	35479 2022 P-L
2027 P-L	15.4	0.15	20000226	124.53135	110.26401	281.00337	1.50969	0.2086332	2.4324909	56	4	1960–2000	0.70	M-v	2	Williams	39646 2027 P-L
2038 P-L	14.6	0.15	20000226	46.83608	268.28296	226.23293	5.95854	0.0575074	2.2786045	76	3	1960–2000	0.64	M-v	2	Williams	39646 2038 P-L
2059 P-L	14.6	0.15	20000226	209.34756	232.39864	357.34744	5.43061	0.0535671	2.4617259	43	3	1960–1999	0.64	M-v	4	Williams	38732 2059 P-L
2076 P-L	14.5	0.15	20000226	157.00849	167.62201	213.33667	6.66698	0.2179814	2.2791487	65	3	1960–2000	0.59	M-v	2	Williams	33784 2076 P-L
2082 P-L	15.6	0.15	20000226	252.21770	65.04276	254.92185	3.73101	0.1616347	2.2602085	26	3	1960–2000	0.48	M-v	4	Williams	32502 2082 P-L
2090 P-L	14.5	0.15	20000226	29.93870	47.19110	321.66196	4.86156	0.0931682	2.8774449	63	2	1960–1999	0.56	M-v	4	Williams	38190 2090 P-L
2107 P-L	15.4	0.15	20000226	290.40287	12.68153	243.81456	4.94384	0.1492105	2.2680204	25	2	1960–2000	0.51	M-v	4	Williams	39494 2107 P-L
2188 P-L	16.6	0.15	20000226	28.31674	113.02066	286.72435	2.15882	0.1707855	2.3218814	57	2	1960–1999	0.50	M-v	4	Williams	38906 2188 P-L
2556 P-L	13.3	0.15	20000226	347.91439	21.68823	23.26256	10.74396	0.2318684	3.1495071	33	3	1960–1999	0.55	M-v	3	Williams	38190 2556 P-L
2568 P-L	14.4	0.15	20000226	128.49481	27.28511	6.30051	3.36311	0.0993368	2.8000641	46	3	1960–2000	0.60	M-v	4	Williams	39646 2568 P-L
2573 P-L	14.8	0.15	20000226	247.38422	301.64236	25.56144	4.51758	0.2246535	2.5609526	27	4	1960–2000	0.73	M-v	3	Williams	30887 2573 P-L
2588 P-L	15.0	0.15	20000226	328.02659	93.78997	18.09500	6.18130	0.1721361	2.3214794	72	2	1960–2000	0.51	M-v	4	Williams	38906 2588 P-L
2589 P-L	13.5	0.15	20000226	350.71135	18.90380	145.38305	3.23240	0.1523285	2.6003145	133	3	1960–2000	0.53	M-v	2	Williams	39646 2589 P-L
2591 P-L	14.5	0.15	20000226	115.29998	231.88137	179.99734	4.88443	0.1251979	2.8004244	37	3	1960–2000	0.56	M-v	4	Williams	39646 2591 P-L
2596 P-L	14.4	0.15	20000226	356.97554	359.45832	67.29962	1.86138	0.2111201	3.1376685	48	2	1960–1999	0.51	M-v	4	Williams	38190 2596 P-L
2629 P-L	14.3	0.15	20000226	174.01891	8.78444	13.57950	1.86099	0.0698507	3.0200310	40	4	1960–2000	0.74	M-v	2	Williams	34059 2629 P-L
2633 P-L	15.3	0.15	20000226	49.21745	242.69848	169.45208	3.22023	0.1508747	2.3086794	40	3	1960–2000	0.62	M-v	2	Williams	38733 2633 P-L
2648 P-L	15.3	0.15	20000226	125.84705	22.57420	40.99505	1.84189	0.1627667	2.4224823	26	4	1960–2000	0.66	M-v	2	Williams	33588 2648 P-L
2660 P-L	13.9	0.15	20000226	247.07771	130.38290	179.06690	2.67814	0.1371651	3.0058921	37	3	1960–2000	0.51	M-v	3	Williams	31160 2660 P-L
2695 P-L	13.6	0.15	20000226	22.56843	117.02118	329.92418	1.07597	0.0975141	3.0966969	57	3	1960–2000	0.57	M-v	3	Williams	38906 2695 P-L
2774 P-L	15.6	0.15	20000226	34.01859	3.40924	49.42174	2.80947	0.1613471	2.4642271	46	2	1960–2000	0.53	M-v	3	Williams	38733 2774 P-L
2781 P-L	15.7	0.15	20000226	65.19534	319.82053	28.84669	7.08432	0.2313128	2.3203957	100	2	1960–2000	0.49	M-v	3	Williams	39494 2781 P-L
2819 P-L	14.6	0.15	20000226	207.24260	2.42540	177.55014	1.95933	0.0030661	2.8853828	34	4	1960–1999	0.70	M-v	2	Williams	36866 2819 P-L
2861 P-L	14.6	0.15	20000226	27.85115	298.38782	171.92741	0.52767	0.1475573	3.0824007	75	3	1960–2000	0.49	M-v	4	Williams	39647 2861 P-L
3039 P-L	14.2	0.15	20000226	133.25828	149.70401	247.38647	6.86093	0.2245288	2.7989950	42	5	1960–2000	0.77	M-v	1	Williams	33784 3039 P-L
3048 P-L	14.4	0.15	20000226	23.38311	130.57878	215.02961	15.58928	0.2314419	3.1460078	35	2	1960–1999	0.62	M-v	4	Williams	39495 3048 P-L
3050 P-L	13.7	0.15	20000226	160.37662	71.34990	315.62200	8.63361	0.1236496	3.0296820	28	4	1960–2000	0.70	M-v	2	Williams	34564 3050 P-L
3082 P-L	13.8	0.15	20000226	44.22455	71.94831	310.08920	8.59847	0.0563687	2.6470359	40	2	1960–2000	0.74	M-v	4	Williams	38906 3082 P-L
3086 P-L	12.7	0.15	20000226	279.78783	58.66946	246.10071	9.16751	0.0837082	2.9913131	58	6	1960–2000	0.71	M-v	1	Williams	34337 3086 P-L
3093 P-L	13.4	0.15	20000226	123.47975	305.74515	300.75488	12.31730	0.0837700	2.8892667	42	3	1960–1999	0.56	M-v	2	Williams	37341 3093 P-L
3103 P-L	14.4	0.15	20000226	60.92302	139.90060	240.65553	9.59009	0.0956244	3.1010607	26	3	1960–1999	0.57	M-v	3	Williams	39496 3103 P-L
3118 P-L	15.0	0.15	20000226	310.27526	241.58640	293.26982	7.67147	0.0494619	2.4432824	47	3	1960–2000	0.65	M-v	4	Williams	39496 3118 P-L
3504 P-L	14.7	0.15	20000226	22.32370	40.23993	331.10981	11.48918	0.1982786	2.6643235	65	2	1960–1999	0.48	M-v	3	Williams	37341 3504 P-L
3519 P-L	15.7	0.15	20000226	34.22771	110.26924	252.50066	6.93324	0.1787133	2.1997755	42	3	1960–1999	0.49	M-v	2	Williams	36866 3519 P-L
3520 P-L	13.3	0.15	20000226	181.88655	141.67243	243.38252	9.50668	0.1237839	3.0168025	41	5	1960–2000	0.68	M-v	1	Williams	34059 3520 P-L
3543 P-L	14.6	0.15	20000226	2.21795	150.46458	238.42590	11.92608	0.1711628	2.6690896	26	2	1960–1999	0.65	M-v	4	Williams	36866 3543 P-L

3552 P-L	13.2	0.15	20000226	355.82941	226.40835	214.15130	17.04802	0.2157144	3.1345715	71	2	1960-2000	0.42	M-v	3	Williams	39496	3552 P-L
3555 P-L	14.4	0.15	20000226	143.82808	311.09034	332.26450	6.53828	0.1073925	2.3154961	58	3	1960-2000	0.72	M-v	2	Williams	38734	3555 P-L
3563 P-L	14.2	0.15	20000226	349.65320	87.60174	342.93701	16.14291	0.2078724	3.1447799	48	2	1960-1999	0.58	M-v	4	Williams	38190	3563 P-L
4037 P-L	14.3	0.15	20000226	338.28359	97.25267	358.00794	6.84758	0.0861103	2.3193490	81	4	1960-2000	0.49	M-v	3	Williams	38190	4037 P-L
4057 P-L	13.8	0.15	20000226	357.61693	94.86455	340.26739	5.49162	0.0360685	2.8565137	43	3	1960-1999	0.50	M-v	4	Williams	38734	4057 P-L
4083 P-L	14.1	0.15	20000226	225.95279	215.56425	341.17991	4.11357	0.0912364	2.3193099	81	3	1960-2000	0.50	M-v	3	Williams	38906	4083 P-L
4100 P-L	14.2	0.15	20000226	328.74955	226.26472	352.47934	12.93088	0.1269207	2.5766722	39	4	1960-2000	0.71	M-v	3	Williams	39647	4100 P-L
4104 P-L	15.8	0.15	20000226	39.60386	171.87184	209.25856	6.09360	0.1231881	2.3217305	72	2	1960-2000	0.59	M-v	3	Williams	38906	4104 P-L
4180 P-L	15.1	0.15	20000226	266.07950	205.36226	332.14940	2.15384	0.0722158	2.3117830	48	3	1960-1999	0.56	M-v	4	Williams	39496	4180 P-L
4201 P-L	14.3	0.15	20000226	30.93935	212.62311	273.21490	3.88753	0.0276596	2.7998607	29	3	1960-2000	0.69	M-v	3	Williams	39647	4201 P-L
4239 P-L	13.2	0.15	20000226	239.89251	297.63581	351.59715	11.89638	0.1456484	3.0211681	48	4	1960-2000	0.49	M-v	2	Williams	39497	4239 P-L
4289 P-L	15.9	0.15	20000226	355.57481	62.46770	353.64500	4.44441	0.1051931	2.3280272	33	2	1960-1999	0.41	M-v	4	Williams	38735	4289 P-L
4315 P-L	14.7	0.15	20000226	131.63170	60.99542	211.19567	1.45492	0.0227664	2.8736421	49	3	1960-1999	0.66	M-v	3	Williams	38906	4315 P-L
4319 P-L	15.9	0.15	20000226	269.54933	43.49904	253.91569	3.20231	0.1304437	2.1399155	19	3	1960-2000	0.72	M-v	4	Williams	19875	4319 P-L
4528 P-L	14.8	0.15	20000226	172.72677	178.38921	195.36673	2.42113	0.2002379	2.4161149	27	4	1960-2000	0.66	M-v	2	Williams	29668	4528 P-L
4536 P-L	13.7	0.15	20000226	180.91922	139.07839	184.60632	2.39078	0.0866375	3.0456305	35	2	1960-2000	0.61	M-v	5	Williams	39647	4536 P-L
4555 P-L	15.2	0.15	20000226	222.71937	182.11640	168.08611	2.45253	0.2197043	2.4021668	24	5	1960-2000	0.56	M-v	2	Williams	36120	4555 P-L
4617 P-L	15.7	0.15	20000226	46.24707	30.21889	5.72777	6.05646	0.1979286	2.3146624	42	2	1960-2000	0.49	M-v	3	Williams	38004	4617 P-L
4646 P-L	12.6	0.15	20000226	5.83113	289.00341	186.07953	10.83185	0.1207815	3.0850639	126	3	1960-2000	0.65	M-v	2	Williams	39647	4646 P-L
4649 P-L	13.2	0.15	20000226	123.53662	256.94419	183.74169	10.83992	0.0267426	3.0105038	52	4	1960-2000	0.64	M-v	1	Williams	36120	4649 P-L
4772 P-L	15.2	0.15	20000226	26.88499	355.77061	4.93169	2.39891	0.1554081	2.8802282	25	2	1960-1999	0.83	M-v	5	Williams	37249	4772 P-L
5567 P-L	14.9	0.15	20000226	157.71132	218.47345	38.01853	7.55245	0.2033245	2.3162446	50	3	1960-1999	0.61	M-v	3	Williams	39497	5567 P-L
6056 P-L	15.1	0.15	20000226	16.07795	197.84154	199.03597	8.53262	0.1396462	2.4756807	79	3	1960-2000	0.63	M-v	2	Williams	38191	6056 P-L
6059 P-L	13.8	0.15	20000226	110.23989	200.70452	222.36545	3.61372	0.0515445	2.7895421	46	3	1960-2000	0.63	M-v	4	Williams	39647	6059 P-L
6061 P-L	15.2	0.15	20000226	252.78128	318.23185	354.38456	2.26272	0.2203361	2.3990839	42	2	1960-2000	0.60	M-v	5	Williams	39497	6061 P-L
6070 P-L	14.2	0.15	20000226	109.56113	91.08556	328.65801	2.25437	0.0966641	2.7944408	54	3	1960-2000	0.52	M-v	4	Williams	39647	6070 P-L
6110 P-L	16.0	0.15	20000226	116.27164	47.94451	349.66161	5.08672	0.1617755	2.2872172	40	3	1960-2000	0.64	M-v	4	Williams	39647	6110 P-L
6113 P-L	14.6	0.15	20000226	283.13027	319.32078	331.23188	1.18124	0.1412360	2.5592520	35	4	1960-2000	0.57	M-v	1	Williams	33589	6113 P-L
6224 P-L	15.0	0.15	20000226	243.71173	107.41681	211.75167	4.36604	0.0406604	2.7667004	22	3	1960-2000	0.44	M-v	4	Williams	30775	6224 P-L
6250 P-L	16.3	0.15	20000226	53.15457	170.68811	207.37544	3.80348	0.0667039	2.1872086	34	2	1960-1999	0.50	M-v	4	Williams	38907	6250 P-L
6274 P-L	14.4	0.15	20000226	315.45891	33.62093	205.11892	4.18534	0.1831518	2.5677525	61	3	1960-2000	0.47	M-v	3	Williams	39647	6274 P-L
6276 P-L	15.3	0.15	20000226	58.83273	202.94138	205.52477	1.00695	0.2141956	3.0939164	29	3	1960-2000	0.58	M-v	3	Williams	38907	6276 P-L
6299 P-L	13.8	0.15	20000226	71.93114	284.48863	195.36569	13.32399	0.1567553	2.7856952	34	4	1960-2000	0.90	M-v	1	Williams	33589	6299 P-L
6312 P-L	15.8	0.15	20000226	69.26317	9.36962	347.26147	4.82453	0.2216884	2.3157862	29	2	1960-1999	0.43	M-v	4	Williams	38735	6312 P-L
6319 P-L	14.9	0.15	20000226	183.98887	114.11336	263.19429	2.32827	0.1068954	2.1459625	38	3	1960-2000	0.58	M-v	3	Williams	36121	6319 P-L
6576 P-L	13.9	0.15	20000226	6.48852	77.29195	27.18682	4.05980	0.0850612	2.3027106	69	3	1960-2000	0.55	M-v	2	Williams	38907	6576 P-L
6587 P-L	14.4	0.15	20000226	54.90911	296.05871	59.61134	2.18350	0.1988084	3.1115737	74	2	1960-1999	0.56	M-v	4	Williams	38907	6587 P-L
6599 P-L	14.1	0.15	20000226	67.34419	14.67924	110.39829	1.67753	0.0789551	2.5796146	47	5	1960-2000	0.60	M-v	1	Williams	35124	6599 P-L
6616 P-L	14.3	0.15	20000226	110.70831	224.08159	172.04224	1.93245	0.1002622	2.8047927	33	3	1960-2000	0.59	M-v	4	Williams	39498	6616 P-L
6617 P-L	14.7	0.15	20000226	326.49960	87.50321	18.71736	6.48225	0.1072201	2.4684875	72	2	1960-2000	0.50	M-v	4	Williams	38907	6617 P-L
6622 P-L	14.6	0.15	20000226	269.10263	0.56183	160.01807	3.04353	0.1094814	2.3176450	62	2	1960-2000	0.58	M-v	4	Williams	38191	6622 P-L
6631 P-L	15.8	0.15	20000226	125.52243	250.55380	151.33565	5.15198	0.1568704	2.2824310	32	3	1960-2000	0.76	M-v	3	Williams	33384	6631 P-L
6639 P-L	13.8	0.15	20000226	16.36085	308.08681	139.37871	2.79361	0.1572830	3.1015148	40	3	1960-2000	0.69	M-v	3	Williams	38005	6639 P-L
6678 P-L	15.7	0.15	20000226	41.35344	29.98684	4.46564	4.00109	0.1451306	2.4638622	38	2	1960-1999	0.54	M-v	4	Williams	38735	6678 P-L
6722 P-L	15.6	0.15	20000226	123.15020	15.00303	17.04514	6.80280	0.0925320	2.2843678	49	3	1960-2000	0.64	M-v	3	Williams	39647	6722 P-L
6735 P-L	14.3	0.15	20000226	18.70077	27.05837	12.32998	5.15154	0.1630576	3.1233685	58	3	1960-2000	0.48	M-v	3	Williams	38907	6735 P-L
6773 P-L	15.7	0.15	20000226	95.87454	345.65371	90.95006	3.24344	0.1748047	2.4281388	30	3	1960-2000	0.68	M-v	3	Williams	33784	6773 P-L
6774 P-L	14.9	0.15	20000226	270.99366	281.80459	13.21516	13.50709	0.1567169	2.5623646	51	3	1960-2000	0.53	M-v	2	Williams	36121	6774 P-L
6847 P-L	14.6	0.15	20000226	21.64420	214.44051	160.36202	10.93182	0.2203814	3.9157328	23	2	1960-1999	0.55	M-v	4	Williams	36493	6847 P-L
7061 P-L	15.2	0.15	20000226	116.97155	178.80296	213.48326	5.56165	0.1282532	2.4328402	71	4	1960-2000	0.70	M-v	2	Williams	38907	7061 P-L
7075 P-L	13.3	0.15	20000226	238.16894	135.13420	203.93803	9.42960	0.1804449	2.9938498	53	5	1960-2000	0.67	M-v	1	Williams	34060	7075 P-L
7082 P-L	14.9	0.15	20000226	135.25836	198.62824	195.43414	22.12856	0.0968528	1.9529643	40	3	1960-2000	0.74	M-v	3	Williams	39647	7082 P-L

7572 P-L	15.1	0.15	20000226	229.89606	149.49528	137.38417	3.62645	0.1258364	2.2772307	51	2	1960-2000	0.58	M-v	4	Williams	39498	7572 P-L
9062 P-L	13.4	0.15	20000226	180.26929	141.31822	240.67597	2.47332	0.1897942	2.5757141	44	5	1960-2000	0.55	M-v	1	Williams	34060	9062 P-L
9097 P-L	14.1	0.15	20000226	353.40334	184.09455	359.42198	7.12257	0.1344869	2.5819155	99	3	1960-2000	0.54	M-v	2	Williams	39647	9097 P-L
9520 P-L	14.9	0.15	20000226	17.73608	58.13118	55.65992	3.33594	0.1232592	2.4419500	47	2	1960-2000	0.60	M-v	3	Williams	39499	9520 P-L
9525 P-L	15.0	0.15	20000226	162.36739	336.79556	57.23325	3.50033	0.1281142	2.2698993	50	6	1960-2000	0.58	M-v	2	Williams	33589	9525 P-L
9538 P-L	14.5	0.15	20000226	276.70791	129.42191	158.22535	1.57168	0.0361910	2.2629594	46	7	1960-2000	0.62	M-v	1	Williams	33589	9538 P-L
1034 T-1	14.7	0.15	20000226	60.82417	261.20556	200.28840	4.20317	0.0603511	2.1835620	77	3	1971-2000	0.73	M-v	3	Williams	39647	1034 T-1
1043 T-1	14.6	0.15	20000226	0.10453	220.60602	222.86328	2.18087	0.1836485	2.3983851	113	4	1971-2000	0.56	M-v	2	Williams	39647	1043 T-1
1132 T-1	14.9	0.15	20000226	359.60174	299.34179	234.67988	1.31048	0.1433524	2.3593597	57	2	1971-2000	0.56	M-v	4	Williams	39499	1132 T-1
1150 T-1	14.5	0.15	20000226	314.59307	315.96934	272.76394	2.40703	0.1715877	2.5842546	33	2	1971-2000	0.62	M-v	4	Williams	39499	1150 T-1
1178 T-1	14.8	0.15	20000226	7.43499	71.59917	346.46354	5.41694	0.1915679	2.6448588	56	2	1971-2000	0.53	M-v	4	Williams	38191	1178 T-1
1180 T-1	15.1	0.15	20000226	49.34482	119.63207	313.74842	4.02486	0.0853566	2.2014765	73	3	1971-2000	0.60	M-v	3	Williams	39647	1180 T-1
1236 T-1	15.3	0.15	20000226	80.33377	104.72678	354.08642	5.26692	0.1279788	2.1739748	42	3	1971-2000	0.68	M-v	3	Williams	33056	1236 T-1
1273 T-1	14.2	0.15	20000226	106.01098	120.05143	180.32986	6.54869	0.0917453	2.9957439	28	3	1971-1999	0.65	M-v	3	Williams	39499	1273 T-1
2059 T-1	12.8	0.15	20000226	205.00326	352.46915	2.41864	24.35001	0.2054929	2.3477853	40	3	1971-2000	0.71	M-v	3	Williams	39499	2059 T-1
2128 T-1	14.7	0.15	20000226	232.13079	177.37339	153.21049	2.08161	0.1417092	2.3499733	36	3	1971-2000	0.69	M-v	5	Williams	34268	2128 T-1
2183 T-1	15.4	0.15	20000226	357.58098	28.18651	67.83901	2.24640	0.1491663	2.3956248	82	3	1971-1999	0.52	M-v	4	Williams	38192	2183 T-1
2206 T-1	15.1	0.15	20000226	184.58928	226.15932	18.59636	4.75842	0.1148504	2.2359278	65	3	1971-2000	0.68	M-v	3	Williams	39648	2206 T-1
2236 T-1	14.4	0.15	20000226	3.20038	70.35014	71.71579	2.29135	0.0589488	2.5970723	57	3	1971-2000	0.76	M-v	3	Williams	39648	2236 T-1
2237 T-1	15.4	0.15	20000226	355.84497	62.09376	13.88779	6.67395	0.1043048	2.4120433	88	3	1971-2000	0.60	M-v	3	Williams	38737	2237 T-1
2287 T-1	14.1	0.15	20000226	201.28491	187.91435	163.20710	6.18241	0.1109793	2.3530389	54	3	1971-2000	0.74	M-v	4	Williams	39648	2287 T-1
3074 T-1	14.5	0.15	20000226	31.64714	159.01114	359.67876	5.34871	0.1326139	3.2029429	35	5	1971-2000	0.84	M-v	1	Williams	36122	3074 T-1
3106 T-1	14.8	0.15	20000226	72.55023	61.40556	243.40965	2.93516	0.2087322	2.2694259	60	4	1971-1999	0.56	M-v	2	Williams	38907	3106 T-1
3204 T-1	14.2	0.15	20000226	36.00344	56.08078	351.85278	5.97840	0.0958056	2.4094392	70	3	1971-2000	0.78	M-v	3	Williams	38907	3204 T-1
3268 T-1	14.9	0.15	20000226	279.72921	254.81929	358.27423	6.65325	0.0840955	2.3680879	46	3	1971-2000	0.59	M-v	3	Williams	39500	3268 T-1
3747 T-1	14.4	0.15	20000226	311.32524	305.88350	188.78293	1.88370	0.0752285	2.2221196	91	3	1971-2000	0.51	M-v	3	Williams	38192	3747 T-1
4060 T-1	15.8	0.15	20000226	139.18444	231.17177	50.09457	4.30563	0.1672454	2.2444119	48	3	1971-1999	0.82	M-v	4	Williams	38738	4060 T-1
4104 T-1	13.4	0.15	20000226	254.13854	169.40627	168.29407	10.48574	0.0955703	2.5478028	50	4	1971-2000	0.64	M-v	1	Williams	35479	4104 T-1
4133 T-1	16.0	0.15	20000226	286.22643	96.27275	123.88838	2.52226	0.1223943	2.1980751	27	3	1971-2000	0.73	M-v	4	Williams	38739	4133 T-1
4302 T-1	14.6	0.15	20000226	5.07174	126.52966	53.11147	5.41062	0.0783976	2.5745838	50	4	1971-2000	0.66	M-v	2	Williams	39648	4302 T-1
4311 T-1	15.0	0.15	20000226	16.67297	312.68787	151.46436	5.58891	0.2119030	2.6052994	31	2	1971-2000	0.62	M-v	3	Williams	39500	4311 T-1
4326 T-1	13.5	0.15	20000226	63.36504	164.87668	170.69903	10.77962	0.1222024	3.0027301	47	3	1971-2000	0.57	M-v	2	Williams	38907	4326 T-1
4406 T-1	14.1	0.15	20000226	302.07200	157.27510	18.76816	15.06309	0.0089376	2.6219003	64	4	1971-2000	0.78	M-v	2	Williams	39648	4406 T-1
4841 T-1	13.7	0.15	20000226	154.36252	295.15983	20.27311	13.27695	0.1785761	2.6424705	67	3	1971-2000	0.73	M-v	3	Williams	39648	4841 T-1
1002 T-2	15.2	0.15	20000226	148.05764	19.02869	7.76927	1.56406	0.1105147	2.3217394	22	3	1973-2000	0.82	M-v	5	Williams	24236	1002 T-2
1013 T-2	15.7	0.15	20000226	123.43706	97.82811	194.56159	2.76766	0.1871312	2.1809686	32	3	1973-1999	0.82	M-v	3	Williams	38739	1013 T-2
1044 T-2	14.9	0.15	20000226	250.53551	320.65132	327.78590	4.06883	0.1759283	2.3061542	41	3	1973-2000	0.80	M-v	4	Williams	39648	1044 T-2
1059 T-2	14.3	0.15	20000226	118.40687	52.97054	209.42698	3.86040	0.0427665	2.4102966	110	3	1973-1999	0.68	M-v	2	Williams	37342	1059 T-2
1062 T-2	15.7	0.15	20000226	90.87938	53.00464	355.17607	2.84193	0.1567637	3.2466491	48	2	1973-2000	0.59	M-v	5	Williams	39500	1062 T-2
1066 T-2	14.2	0.15	20000226	17.27791	142.63631	199.55476	3.87759	0.1158174	3.0295945	56	3	1973-1999	0.69	M-v	3	Williams	36493	1066 T-2
1093 T-2	15.5	0.15	20000226	101.95483	71.14280	0.97909	6.32639	0.1117777	2.3268159	51	3	1973-2000	0.82	M-v	3	Williams	33384	1093 T-2
1100 T-2	14.6	0.15	20000226	188.48997	359.76368	187.76660	9.37937	0.0844949	2.6756240	29	3	1973-1999	0.89	M-v	4	Williams	36868	1100 T-2
1108 T-2	14.6	0.15	20000226	87.54627	313.48330	353.21964	6.35453	0.1313651	2.3975042	117	3	1973-1999	0.72	M-v	3	Williams	37342	1108 T-2
1118 T-2	15.0	0.15	20000226	40.37475	128.18465	248.34408	1.21522	0.1184026	2.6448360	77	3	1973-1999	0.60	M-v	4	Williams	38739	1118 T-2
1131 T-2	16.1	0.15	20000226	153.56664	306.97323	311.17090	1.92893	0.1753372	2.3823878	35	4	1973-1999	0.75	M-v	2	Williams	36943	1131 T-2
1160 T-2	15.5	0.15	20000226	92.90013	324.55794	352.73643	7.60576	0.0935994	2.3905164	51	2	1973-1999	0.88	M-v	5	Williams	38192	1160 T-2
1171 T-2	13.6	0.15	20000226	112.25588	292.62847	0.12168	9.67552	0.0861035	2.9811016	63	2	1973-2000	0.78	M-v	4	Williams	38907	1171 T-2
1174 T-2	14.1	0.15	20000226	77.55405	284.28474	7.40047	8.77624	0.0514639	3.0215435	29	2	1973-1999	0.98	M-v	5	Williams	36868	1174 T-2
1181 T-2	13.7	0.15	20000226	29.97808	61.16182	342.26945	1.03774	0.0996138	2.9633598	83	3	1973-2000	0.69	M-v	3	Williams	38907	1181 T-2
1184 T-2	14.7	0.15	20000226	88.14987	279.00330	169.04159	4.29849	0.0524323	2.5560649	68	2	1973-2000	0.82	M-v	5	Williams	39501	1184 T-2
1198 T-2	14.8	0.15	20000226	21.09545	86.78229	303.55865	1.04675	0.0590396	2.6511538	74	2	1973-1999	0.81	M-v	5	Williams	38192	1198 T-2
1213 T-2	16.5	0.15	20000226	50.97591	335.26005	3.64326	1.74171	0.1590427	2.2010043	45	2	1973-1999	0.93	M-v	4	Williams	36493	1213 T-2
1247 T-2	16.7	0.15	20000226	15.30599	212.87538	196.20620	2.56561	0.1698400	2.3933748	57	2	1973-1999	0.64	M-v	4	Williams	38192	1247 T-2

1259 T-2	13.2	0.15	20000226	17.20304	91.45830	31.98261	2.35942	0.0446605	2.8923677	114	3	1973-2000	0.73	M-v	2	Williams	39648	1259 T-2
1263 T-2	16.1	0.15	20000226	14.88141	207.83942	182.70138	2.94999	0.1771646	2.2006231	45	2	1973-1999	0.79	M-v	5	Williams	36869	1263 T-2
1314 T-2	14.6	0.15	20000226	281.58209	279.25962	6.17425	2.24729	0.1324556	2.5208534	53	4	1973-2000	0.82	M-v	3	Williams	30914	1314 T-2
1329 T-2	13.9	0.15	20000226	0.78197	208.78552	218.62347	1.90826	0.1850665	2.9835721	90	3	1973-2000	0.68	M-v	2	Williams	38907	1329 T-2
1343 T-2	14.9	0.15	20000226	323.75049	185.35277	357.01264	3.00110	0.1009002	2.3378917	87	3	1973-2000	0.75	M-v	3	Williams	39648	1343 T-2
1504 T-2	15.3	0.15	20000226	212.05300	101.62521	221.75764	1.29409	0.0659682	2.8514641	27	2	1973-2000	0.76	M-v	6	Williams	39501	1504 T-2
2030 T-2	15.1	0.15	20000226	167.95974	9.05132	9.04930	2.48607	0.1068719	2.5483623	33	3	1973-2000	0.85	M-v	5	Williams	17977	2030 T-2
2031 T-2	16.6	0.15	20000226	6.85158	52.07139	7.46116	4.16082	0.1873189	2.3947370	47	2	1973-1999	0.81	M-v	5	Williams	36869	2031 T-2
2052 T-2	13.7	0.15	20000226	239.25520	357.12691	308.59989	1.19694	0.0481177	2.8433386	62	3	1973-2000	0.55	M-v	3	Williams	39501	2052 T-2
2058 T-2	15.4	0.15	20000226	112.47152	266.49541	174.81124	1.92049	0.0358653	2.3128196	63	6	1973-2000	0.87	M-v	2	Williams	35052	2058 T-2
2064 T-2	15.1	0.15	20000226	1.56830	190.21866	195.14879	5.68972	0.0536804	2.6718770	32	2	1973-1999	0.69	M-v	5	Williams	36869	2064 T-2
2066 T-2	13.9	0.15	20000226	80.44704	117.81400	214.71184	4.96327	0.1030583	2.9753374	83	3	1973-2000	0.69	M-v	2	Williams	38908	2066 T-2
2085 T-2	14.5	0.15	20000226	309.77677	150.28658	349.55122	4.50386	0.1282964	2.6302540	58	3	1973-1999	0.75	M-v	4	Williams	38192	2085 T-2
2112 T-2	13.9	0.15	20000226	220.35615	277.30326	71.14751	0.17876	0.1668761	3.2260260	43	4	1973-2000	0.55	M-v	1	Williams	34338	2112 T-2
2127 T-2	14.8	0.15	20000226	257.24258	316.52323	325.29336	1.98049	0.0276848	2.5502057	43	3	1973-2000	0.75	M-v	4	Williams	39648	2127 T-2
2159 T-2	15.0	0.15	20000226	72.51930	55.15826	72.91516	0.86952	0.0153868	2.5379145	32	3	1973-2000	1.09	M-v	4	Williams	27322	2159 T-2
2233 T-2	13.8	0.15	20000226	194.58458	193.43403	143.80601	2.46007	0.0937407	2.8562785	44	2	1973-2000	0.74	M-v	5	Williams	39502	2233 T-2
2237 T-2	14.8	0.15	20000226	196.12879	148.91896	200.82200	4.23457	0.1092630	2.5459156	29	3	1973-2000	1.02	M-v	5	Williams	23988	2237 T-2
2244 T-2	14.7	0.15	20000226	209.12465	147.93132	173.94542	0.97235	0.1221683	2.5519345	66	4	1973-2000	0.53	M-v	4	Williams	39648	2244 T-2
2259 T-2	15.2	0.15	20000226	252.43886	79.68795	246.76182	0.25499	0.1339284	2.5183811	28	3	1973-2000	0.89	M-v	3	Williams	31001	2259 T-2
2266 T-2	14.7	0.15	20000226	216.10369	129.00454	173.90749	5.51732	0.0381478	3.3289116	89	3	1973-2000	0.79	M-v	3	Williams	39648	2266 T-2
2284 T-2	16.1	0.15	20000226	115.36862	78.38820	186.45369	3.01075	0.1526946	2.2035854	30	3	1973-1999	0.75	M-v	5	Williams	36493	2284 T-2
3044 T-2	13.2	0.15	20000226	92.55429	341.54295	123.51513	2.74183	0.0933720	3.2393668	59	4	1973-2000	0.86	M-v	1	Williams	36123	3044 T-2
3063 T-2	14.1	0.15	20000226	22.83169	79.46408	9.69684	14.80747	0.0784177	2.6045701	47	4	1973-2000	0.85	M-v	2	Williams	39648	3063 T-2
3071 T-2	13.8	0.15	20000226	258.18840	240.24235	47.43977	5.27262	0.0814397	2.5366282	61	4	1973-2000	0.73	M-v	1	Williams	39648	3071 T-2
3092 T-2	14.2	0.15	20000226	60.97686	78.00430	7.85838	12.94735	0.0409215	2.5754346	51	3	1973-2000	0.76	M-v	2	Williams	39648	3092 T-2
3096 T-2	14.7	0.15	20000226	164.89609	247.93575	24.85960	6.71139	0.1069626	2.3684043	53	2	1973-1999	0.63	M-v	4	Williams	39502	3096 T-2
3111 T-2	13.9	0.15	20000226	48.77530	329.39629	178.16901	13.43219	0.1070846	2.5412642	24	3	1973-2000	0.86	M-v	4	Williams	17978	3111 T-2
3130 T-2	13.6	0.15	20000226	34.52142	106.23379	40.35907	7.10648	0.0719220	2.8509794	58	3	1973-2000	0.66	M-v	3	Williams	33535	3130 T-2
3159 T-2	14.0	0.15	20000226	58.90410	210.74203	170.10045	11.82234	0.1225309	2.6261952	56	3	1973-2000	0.64	M-v	2	Williams	38908	3159 T-2
3178 T-2	13.7	0.15	20000226	132.98975	345.16505	29.86158	3.17478	0.0677428	2.8813926	83	5	1971-2000	0.76	M-v	2	Williams	39648	3178 T-2
3234 T-2	15.5	0.15	20000226	49.99746	314.24658	68.08490	3.63738	0.2102330	2.3839281	97	2	1973-2000	0.59	M-v	4	Williams	38908	3234 T-2
3284 T-2	15.1	0.15	20000226	0.39423	323.67605	135.85753	5.38466	0.1899716	2.3770501	55	2	1973-2000	0.74	M-v	4	Williams	38740	3284 T-2
3335 T-2	14.7	0.15	20000226	97.70941	340.06592	66.08036	3.59222	0.1665246	2.5827926	77	3	1973-2000	0.59	M-v	2	Williams	39648	3335 T-2
3353 T-2	13.3	0.15	20000226	274.40575	288.60590	26.48353	5.21534	0.1983621	3.1790462	43	5	1973-2000	0.61	M-v	1	Williams	36123	3353 T-2
3370 T-2	14.9	0.15	20000226	106.13715	34.42749	26.81694	4.30576	0.1716581	2.5694849	24	3	1973-2000	0.72	M-v	4	Williams	34272	3370 T-2
4041 T-2	15.5	0.15	20000226	67.87608	335.94458	28.05270	2.34745	0.0929120	2.6314228	72	3	1973-1999	0.88	M-v	5	Williams	38908	4041 T-2
4071 T-2	14.2	0.15	20000226	226.69157	240.90960	68.81839	3.66217	0.0406497	2.8504515	42	2	1973-2000	0.77	M-v	5	Williams	39503	4071 T-2
4072 T-2	16.5	0.15	20000226	99.35550	284.41043	34.40717	4.65911	0.1894353	2.1830758	46	3	1973-1999	0.70	M-v	3	Williams	37342	4072 T-2
4091 T-2	14.3	0.15	20000226	80.08505	205.46484	109.37086	3.43352	0.1962672	2.6499750	74	3	1973-1999	0.69	M-v	3	Williams	37342	4091 T-2
4184 T-2	15.5	0.15	20000226	18.91734	338.93611	66.83132	1.90497	0.1661084	2.3933534	75	2	1973-1999	0.66	M-v	4	Williams	38193	4184 T-2
4215 T-2	15.3	0.15	20000226	120.55524	349.34458	71.28396	2.32435	0.1279409	2.5597086	29	3	1973-2000	0.81	M-v	4	Williams	36124	4215 T-2
4234 T-2	12.7	0.15	20000226	293.75309	259.02845	29.92952	5.25675	0.1270887	3.1943684	71	8	1971-2000	0.73	M-v	1	Williams	34339	4234 T-2
4258 T-2	14.8	0.15	20000226	284.02333	143.18376	122.25400	2.58983	0.0727235	2.5389720	40	3	1973-2000	0.75	M-v	3	Williams	39648	4258 T-2
4278 T-2	14.3	0.15	20000226	51.66347	283.98267	172.05773	12.69710	0.1693840	2.5913139	68	3	1973-2000	0.64	M-v	2	Williams	39648	4278 T-2
5049 T-2	15.1	0.15	20000226	352.92062	282.90371	280.97575	8.25495	0.1046339	2.3065959	39	5	1973-2000	0.81	M-v	1	Williams	36124	5049 T-2
5068 T-2	14.1	0.15	20000226	133.33918	291.36194	326.07689	11.37729	0.2363334	2.6473907	28	2	1973-1999	0.71	M-v	4	Williams	36870	5068 T-2
5081 T-2	14.6	0.15	20000226	253.73754	322.61342	210.74017	14.62003	0.0518332	2.6386431	40	3	1973-1999	0.64	M-v	2	Williams	38741	5081 T-2
5137 T-2	14.2	0.15	20000226	345.02692	351.14959	213.20882	14.20028	0.1009164	2.5412922	58	3	1973-2000	0.80	M-v	3	Williams	39648	5137 T-2
5146 T-2	11.8	0.15	20000226	12.44597	136.65456	301.36877	10.78910	0.1107478	5.2451668	31	3	1973-2000	0.77	M-v	4	Williams	38741	5146 T-2
5148 T-2	14.5	0.15	20000226	223.13162	39.57166	308.99184	6.34431	0.2169619	2.2975127	41	6	1973-2000	0.68	M-v	2	Williams	33785	5148 T-2
5158 T-2	14.3	0.15	20000226	184.36882	0.83643	227.33030	12.49980	0.0262533	2.9867293	40	2	1973-1999	0.65	M-v	4	Williams	39503	5158 T-2
5167 T-2	11.1	0.15	20000226	27.03911	143.40556	311.45045	10.64312	0.0406517	5.1278136	80	3	1973-2000	0.67	M-v	3	Williams	39648	5167 T-2

5168 T-2	13.6	0.15	20000226	75.86533	119.48105	228.36457	9.65669	0.1108134	2.9651275	63	3	1973-1999	0.61	M-v	3	Williams	38193	5168 T-2
5179 T-2	14.1	0.15	20000226	333.78522	232.62229	229.44638	9.98587	0.0689643	2.9696279	68	3	1973-1999	0.72	M-v	3	Williams	38193	5179 T-2
5366 T-2	14.0	0.15	20000226	133.94616	337.29356	258.16193	7.58587	0.0498057	3.0274903	42	3	1973-1999	0.69	M-v	5	Williams	39648	5366 T-2
1032 T-3	13.4	0.15	20000226	324.07480	216.85929	323.33168	10.39441	0.0436586	2.9818914	81	3	1977-2000	0.83	M-v	3	Williams	39648	1032 T-3
1033 T-3	14.2	0.15	20000226	69.10150	312.55748	351.33205	16.40388	0.0775997	3.1490998	26	2	1977-1999	0.67	M-v	5	Williams	36870	1033 T-3
1055 T-3	14.8	0.15	20000226	321.70184	259.76874	319.35337	10.53172	0.1640693	2.5580050	31	3	1977-2000	0.67	M-v	3	Williams	39648	1055 T-3
1068 T-3	13.3	0.15	20000226	303.63072	114.71478	2.74077	21.77483	0.1910737	3.1371430	62	3	1977-2000	0.62	M-v	2	Williams	38193	1068 T-3
1079 T-3	14.2	0.15	20000226	81.93992	57.89148	243.76863	11.79472	0.1644351	2.6953675	43	2	1977-1999	0.70	M-v	4	Williams	37342	1079 T-3
1084 T-3	13.8	0.15	20000226	126.24354	125.27517	248.68058	8.37984	0.0974812	2.9845783	53	4	1977-2000	0.71	M-v	1	Williams	38908	1084 T-3
1085 T-3	13.9	0.15	20000226	199.44770	20.62839	270.81777	6.35203	0.1176179	2.3151468	81	3	1977-2000	0.61	M-v	3	Williams	38908	1085 T-3
1089 T-3	14.4	0.15	20000226	136.68252	65.61211	281.23994	4.47295	0.1918030	2.3223075	61	4	1977-2000	0.77	M-v	3	Williams	39503	1089 T-3
1091 T-3	14.2	0.15	20000226	19.64738	157.32806	249.47939	9.30767	0.0822592	3.0916338	40	2	1977-1999	0.56	M-v	4	Williams	39503	1091 T-3
1093 T-3	14.3	0.15	20000226	208.30122	344.76520	329.58351	6.84273	0.1525622	2.5665829	46	3	1977-2000	0.63	M-v	3	Williams	39503	1093 T-3
1124 T-3	15.3	0.15	20000226	99.56306	92.79579	308.85026	4.88156	0.0864753	2.3206060	34	2	1977-2000	0.64	M-v	5	Williams	39504	1124 T-3
1132 T-3	15.8	0.15	20000226	49.63972	125.24728	241.90284	7.73207	0.2507166	2.3734885	71	2	1977-2000	0.64	M-v	4	Williams	38742	1132 T-3
1168 T-3	14.4	0.15	20000226	13.51099	49.57638	355.92399	13.32322	0.1621693	2.6851008	87	3	1977-2000	0.68	M-v	3	Williams	38193	1168 T-3
1182 T-3	13.6	0.15	20000226	246.78474	301.66169	331.21727	8.57736	0.0225127	2.9603348	55	4	1977-2000	0.74	M-v	2	Williams	39648	1182 T-3
1183 T-3	16.0	0.15	20000226	48.83401	115.21117	281.47545	3.91318	0.1429422	2.3596499	29	2	1977-2000	0.91	M-v	5	Williams	39504	1183 T-3
1184 T-3	14.4	0.15	20000226	4.33083	219.34948	221.91372	13.97453	0.2489801	3.0968914	56	2	1977-2000	0.76	M-v	3	Williams	38743	1184 T-3
1206 T-3	16.0	0.15	20000226	51.53417	80.51627	259.46757	4.17586	0.2635552	2.3840370	44	2	1977-1999	0.76	M-v	4	Williams	39504	1206 T-3
2075 T-3	14.0	0.15	20000226	160.71790	83.03414	301.54317	1.85807	0.1736799	2.5629201	59	3	1977-2000	0.76	M-v	4	Williams	34274	2075 T-3
2110 T-3	13.9	0.15	20000226	312.91204	251.74782	355.09023	9.33669	0.1476662	2.5356546	47	3	1977-2000	0.71	M-v	3	Williams	39648	2110 T-3
2151 T-3	14.2	0.15	20000226	325.75394	229.58239	357.87326	9.36998	0.0362002	2.2824744	41	4	1977-2000	0.79	M-v	2	Williams	39649	2151 T-3
2152 T-3	14.5	0.15	20000226	79.88947	109.12326	214.23044	15.28636	0.1489839	3.0949803	28	2	1977-1999	0.77	M-v	4	Williams	38193	2152 T-3
2214 T-3	15.0	0.15	20000226	215.20432	323.72739	247.12676	5.87537	0.0895413	2.3707334	41	2	1977-1999	0.79	M-v	5	Williams	38193	2214 T-3
2239 T-3	14.4	0.15	20000226	277.14258	190.73388	322.85623	4.99944	0.1131730	2.6781672	52	3	1977-1999	0.74	M-v	4	Williams	36944	2239 T-3
2248 T-3	14.3	0.15	20000226	44.36240	123.90127	225.06471	10.21489	0.0611219	3.1306384	28	2	1977-1999	0.77	M-v	5	Williams	36871	2248 T-3
2271 T-3	13.3	0.15	20000226	155.06938	127.66087	251.75185	1.12387	0.0760942	2.9448374	66	3	1977-2000	0.74	M-v	4	Williams	39505	2271 T-3
2272 T-3	14.7	0.15	20000226	112.83994	66.34452	2.50086	4.78463	0.1481981	2.2999257	47	5	1977-2000	0.74	M-v	2	Williams	33590	2272 T-3
2281 T-3	15.2	0.15	20000226	280.48712	34.59391	219.61480	4.85306	0.1680982	2.5549601	27	3	1977-2000	0.63	M-v	3	Williams	39506	2281 T-3
2288 T-3	14.7	0.15	20000226	153.09996	7.42761	351.93027	5.07876	0.1974790	2.3064787	105	5	1977-2000	0.72	M-v	2	Williams	39649	2288 T-3
2315 T-3	15.5	0.15	20000226	3.88652	194.64773	221.45647	1.94705	0.1437049	2.3817061	74	3	1977-1999	0.72	M-v	3	Williams	37342	2315 T-3
2324 T-3	14.2	0.15	20000226	273.38686	284.32278	341.78600	4.54462	0.1630332	2.2816800	57	2	1977-2000	0.63	M-v	4	Williams	39506	2324 T-3
2336 T-3	16.7	0.15	20000226	61.77250	17.41963	334.21913	3.16518	0.2242152	2.3725184	28	2	1977-1999	1.01	M-v	5	Williams	36871	2336 T-3
2369 T-3	15.3	0.15	20000226	49.81925	221.52604	276.05999	3.02552	0.0912288	2.2954596	32	4	1977-2000	0.85	M-v	3	Williams	34339	2369 T-3
2383 T-3	15.1	0.15	20000226	106.80620	85.03644	308.37535	2.52439	0.0696118	2.9911454	25	2	1977-2000	0.79	M-v	6	Williams	39506	2383 T-3
2391 T-3	13.6	0.15	20000226	184.05416	15.18300	356.49342	1.46799	0.0828302	2.9187407	31	3	1977-2000	0.77	M-v	5	Williams	34275	2391 T-3
2407 T-3	14.9	0.15	20000226	212.53745	358.59062	356.34825	1.35112	0.0742456	2.9020564	50	4	1977-2000	0.76	M-v	1	Williams	33785	2407 T-3
2428 T-3	15.1	0.15	20000226	24.24231	353.47945	6.52752	3.62085	0.2246560	3.1286435	41	3	1977-1999	0.89	M-v	4	Williams	36494	2428 T-3
2430 T-3	13.1	0.15	20000226	61.13296	144.40088	207.79918	15.47444	0.1162922	3.0954484	110	2	1977-2000	0.65	M-v	4	Williams	38743	2430 T-3
2437 T-3	15.1	0.15	20000226	334.41642	146.54841	334.07886	4.04163	0.1838739	2.6664013	29	2	1977-1999	0.74	M-v	6	Williams	38744	2437 T-3
2603 T-3	14.1	0.15	20000226	242.50978	325.75538	219.57693	14.32601	0.0892069	3.0931510	37	2	1977-1999	0.74	M-v	5	Williams	38193	2603 T-3
2616 T-3	14.8	0.15	20000226	291.03428	265.05762	245.61896	5.42094	0.0403588	2.3638807	60	2	1977-2000	0.63	M-v	4	Williams	38744	2616 T-3
2634 T-3	15.2	0.15	20000226	252.20966	326.02498	232.17381	2.55970	0.0840582	2.6464308	34	3	1977-1999	0.63	M-v	3	Williams	38193	2634 T-3
3039 T-3	14.6	0.15	20000226	35.96134	259.65940	144.58361	3.30167	0.1014923	2.6614614	64	3	1977-2000	0.89	M-v	3	Williams	38908	3039 T-3
3041 T-3	14.5	0.15	20000226	333.03861	41.82226	61.20463	4.84692	0.1060348	2.6743966	54	2	1977-1999	0.82	M-v	5	Williams	38744	3041 T-3
3042 T-3	14.3	0.15	20000226	349.17971	125.78770	47.86332	7.23085	0.1356196	2.3100479	63	3	1977-2000	0.84	M-v	3	Williams	39649	3042 T-3
3084 T-3	16.8	0.15	20000226	61.57036	299.20008	36.44094	0.98360	0.1637008	2.1540448	39	3	1977-1999	0.80	M-v	4	Williams	37342	3084 T-3
3098 T-3	16.4	0.15	20000226	127.61845	224.80279	180.95009	4.69042	0.1775325	2.5801346	27	3	1977-2000	0.69	M-v	4	Williams	27565	3098 T-3
3101 T-3	14.5	0.15	20000226	192.95921	285.25015	39.65736	8.49592	0.0972736	2.3015286	88	4	1977-2000	0.76	M-v	3	Williams	39649	3101 T-3
3172 T-3	16.7	0.15	20000226	42.86868	64.38560	321.21021	0.55357	0.1920469	2.3706513	50	2	1977-1999	0.60	M-v	4	Williams	39506	3172 T-3
3175 T-3	14.4	0.15	20000226	163.89212	346.10499	24.77232	2.20065	0.0614157	2.9445976	39	3	1977-2000	0.82	M-v	5	Williams	39649	3175 T-3
3191 T-3	15.7	0.15	20000226	24.44707	20.29461	39.50598	7.39032	0.1134214	2.3631406	57	2	1977-1999	0.72	M-v	4	Williams	38193	3191 T-3

3245 T-3	15.3	0.15	20000226	58.62358	10.02042	52.31424	3.50725	0.2088122	2.3415222	78	2	1977-2000	0.67	M-v	4	Williams	39506	3245 T-3
3256 T-3	13.1	0.15	20000226	174.71731	206.93383	153.06330	2.35666	0.0730719	2.9409222	70	3	1977-2000	0.71	M-v	4	Williams	39507	3256 T-3
3258 T-3	16.1	0.15	20000226	82.12506	284.99830	32.42512	6.22325	0.1528164	2.3798498	50	2	1977-1999	0.65	M-v	5	Williams	38744	3258 T-3
3265 T-3	15.2	0.15	20000226	44.38796	169.19727	202.64128	5.10255	0.1302402	2.6780086	48	2	1977-1999	0.82	M-v	5	Williams	38744	3265 T-3
3387 T-3	16.2	0.15	20000226	80.60659	290.71927	8.69881	1.64375	0.2083786	2.1573304	39	2	1977-1999	0.64	M-v	4	Williams	36872	3387 T-3
3466 T-3	14.6	0.15	20000226	65.58530	327.19055	55.21699	1.27672	0.2018430	3.0536582	36	3	1977-2000	0.92	M-v	4	Williams	38745	3466 T-3
3479 T-3	15.9	0.15	20000226	126.78568	198.94178	189.55450	4.10382	0.2860132	2.5905827	31	3	1977-2000	0.81	M-v	4	Williams	36125	3479 T-3
3524 T-3	16.1	0.15	20000226	9.20879	189.39620	206.18000	2.43640	0.1670160	2.3892327	49	2	1977-1999	0.56	M-v	5	Williams	38008	3524 T-3
3530 T-3	14.4	0.15	20000226	99.10807	164.99932	270.40209	0.92218	0.0795188	2.9532345	29	2	1977-2000	0.67	M-v	5	Williams	39507	3530 T-3
4032 T-3	14.6	0.15	20000226	123.86247	325.76962	54.94516	4.68656	0.1762304	2.3157401	76	5	1949-2000	0.74	M-v	2	Williams	39649	4032 T-3
4044 T-3	14.0	0.15	20000226	323.29310	72.29318	71.29202	6.54549	0.0649956	2.3450800	67	2	1977-2000	0.67	M-v	4	Williams	38745	4044 T-3
4055 T-3	14.0	0.15	20000226	268.49060	129.81653	41.05561	9.84535	0.0208334	3.0684371	41	2	1977-1999	0.67	M-v	5	Williams	38745	4055 T-3
4070 T-3	13.0	0.15	20000226	247.82952	299.82201	188.35555	23.08918	0.1047751	3.1768168	36	2	1977-1999	0.68	M-v	4	Williams	36494	4070 T-3
4080 T-3	13.6	0.15	20000226	176.06855	216.45284	39.28160	11.09940	0.0768083	3.0648763	55	3	1977-1999	0.65	M-v	4	Williams	38745	4080 T-3
4183 T-3	16.8	0.15	20000226	123.03866	209.02315	184.18674	11.19292	0.1968534	2.3114959	41	3	1977-2000	0.81	M-v	4	Williams	33130	4183 T-3
4203 T-3	13.8	0.15	20000226	316.88745	5.25159	185.61488	13.01532	0.1052858	2.5951735	75	5	1960-2000	0.73	M-v	2	Williams	39649	4203 T-3
4235 T-3	14.0	0.15	20000226	347.15318	20.52141	67.96744	5.12466	0.0287714	2.3669133	85	4	1977-2000	0.61	M-v	4	Williams	38909	4235 T-3
4266 T-3	13.2	0.15	20000226	81.97684	284.91917	41.98931	17.81510	0.1470847	3.0879528	103	2	1977-2000	0.63	M-v	4	Williams	38746	4266 T-3
4310 T-3	14.2	0.15	20000226	312.70626	167.16495	65.72360	5.67572	0.0958614	2.2857261	96	5	1977-2000	0.67	M-v	2	Williams	39649	4310 T-3
4340 T-3	14.8	0.15	20000226	51.91541	287.38117	56.59461	7.13312	0.1382683	2.3878166	30	3	1977-1999	0.74	M-v	3	Williams	36944	4340 T-3
4366 T-3	16.0	0.15	20000226	354.75914	328.62387	93.91024	3.24368	0.1792186	2.3872184	39	3	1977-1999	0.87	M-v	3	Williams	36872	4366 T-3
4517 T-3	16.3	0.15	20000226	305.78502	106.21139	162.41341	6.85290	0.1021460	2.2629290	18	3	1977-2000	0.62	M-v	3	Williams	30467	4517 T-3
4672 T-3	14.5	0.15	20000226	26.27863	31.77930	77.40359	5.04520	0.1389745	2.6223069	60	3	1977-2000	0.63	M-v	2	Williams	39649	4672 T-3
5018 T-3	13.9	0.15	20000226	352.65090	38.23926	53.12674	15.84762	0.0865506	2.6592132	93	3	1977-2000	0.59	M-v	3	Williams	38909	5018 T-3
5046 T-3	15.0	0.15	20000226	75.60475	356.24020	117.10325	6.17095	0.1145587	2.2958433	32	4	1977-2000	0.86	M-v	1	Williams	33385	5046 T-3
5078 T-3	12.1	0.15	20000226	114.51389	222.56874	67.56319	10.77637	0.0482605	3.1129327	68	3	1977-2000	0.79	M-v	2	Williams	38909	5078 T-3
5082 T-3	14.8	0.15	20000226	147.56858	247.27775	108.31233	5.57278	0.1485173	2.3127353	48	4	1977-2000	0.87	M-v	3	Williams	39649	5082 T-3
5092 T-3	13.5	0.15	20000226	18.97291	356.10364	148.02938	12.51608	0.0842898	2.9681935	64	3	1977-2000	0.72	M-v	2	Williams	39508	5092 T-3
5124 T-3	14.5	0.15	20000226	280.26636	58.95962	102.93125	7.18456	0.0593076	2.3638793	75	3	1977-2000	0.73	M-v	3	Williams	38194	5124 T-3
5130 T-3	14.9	0.15	20000226	101.71584	356.41121	92.72695	8.31723	0.1227606	2.2946875	32	3	1977-2000	0.73	M-v	3	Williams	36125	5130 T-3
5131 T-3	15.0	0.15	20000226	217.65275	214.27782	101.42807	7.73391	0.1334232	2.2885170	25	2	1977-2000	0.57	M-v	5	Williams	39509	5131 T-3
5160 T-3	14.2	0.15	20000226	286.57072	132.91631	156.93530	13.95920	0.2299173	2.8643079	47	3	1977-2000	0.58	M-v	2	Williams	36055	5160 T-3
5184 T-3	15.8	0.15	20000226	59.97532	163.33712	127.70368	7.25297	0.1039346	2.1807435	18	3	1977-1999	0.76	M-v	3	Williams	38747	5184 T-3
5188 T-3	14.5	0.15	20000226	8.42064	227.65490	166.40550	17.01281	0.2190463	3.1280592	36	2	1977-1999	0.58	M-v	5	Williams	36495	5188 T-3
5282 T-3	13.9	0.15	20000226	94.13974	23.09509	65.01134	14.84822	0.1423368	2.5777516	35	3	1977-2000	0.77	M-v	3	Williams	33537	5282 T-3
5710 T-3	14.9	0.15	20000226	247.19204	138.36491	52.08385	14.49120	0.0309197	2.6599941	37	2	1977-1999	0.66	M-v	5	Williams	38909	5710 T-3
5739 T-3	13.6	0.15	20000226	5.09820	83.06444	83.42762	8.40456	0.1143888	2.5804852	52	3	1977-2000	0.77	M-v	3	Williams	39509	5739 T-3

1998 SW₁₆ = 1998 UF₄₆ (G. V. Williams)1998 SY₃₃ = 1998 TL₃₅ (G. V. Williams)1998 SR₆₄ = 1998 UN₄₁ (G. V. Williams)1998 SC₆₅ = 1998 UP₄₃ (G. V. Williams)1998 SZ₆₅ = 1998 UK₃₈ (G. V. Williams)1998 SV₇₂ = 1998 UP₃₇ (G. V. Williams)1998 SY₈₅ = 1998 TH₃₅ (G. V. Williams)1998 SP₁₄₂ = 1998 UZ₃₇ (G. V. Williams)1998 SE₁₄₅ = 1998 UQ₃₈ (G. V. Williams)1999 RC₁₃₂ = 1999 VF₁₅₇ (G. V. Williams)1999 RP₁₉₈ = 1999 RH₂₀ (G. V. Williams, *MPC* 36582)1999 SQ₁ = 1999 RQ₂₁₃ (G. V. Williams, *MPC* 36944)1999 UO₈ = 1999 XN₁₀₈ (G. V. Williams, *MPC* 38194)1999 UF₂₃ = 1999 VH₅₇ (G. V. Williams, *MPC* 38194)1999 VO₁₅₁ = 1999 XZ₂₂₈ (S. Nakano, *MPC* 39649)1999 VA₁₅₈ = 1999 XR₄₀ (G. V. Williams)1999 XL₂₅ = 1999 VN₂₈ (G. V. Williams, *MPC* 38194)1999 XM₂₇ = 1999 VS₂₈ (M. E. Sansaturio)1999 XE₄₆ = 1999 VS₁₅₁ (S. Nakano, *MPC* 39649)1999 XF₅₁ = 1999 VT₁₅₆ (M. E. Sansaturio)1999 XQ₁₆₈ = 2000 AQ₁₀ (S. Nakano, *MPC* 39649)2000 AO₁₀ = 1999 XK₂₂₁ (G. V. Williams)2000 AF₂₀₄ = 2000 AK₂₆ (L. Sárneczky, *MPC* 38909)2000 CA₅₅ = 2000 CA₅₇ (M. E. Sansaturio)2000 DE₁ = 2000 CV₂ (G. V. Williams)2000 DH₃₂ = 2000 CX₁₀₅ = 2000 EU₅₀ (G. V. Williams)

EPHEMERIDES

C/1999 Y1 (LINEAR)						Elements MPC 39791			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		02 42.65	+50 56.1	5.149	4.466	42.9	8.8	15.6	
2000 04 26		02 49.20	+50 13.7	5.160	4.403	37.3	8.0	15.5	
2000 05 06		02 55.86	+49 41.3	5.150	4.340	33.1	7.3	15.4	
2000 05 16		03 02.48	+49 17.7	5.115	4.278	30.8	6.9	15.4	
2000 05 26		03 08.88	+49 01.8	5.056	4.216	30.6	7.0	15.3	
2000 06 05		03 14.92	+48 52.9	4.972	4.155	32.7	7.6	15.2	
2000 06 15		03 20.38	+48 50.1	4.864	4.095	36.7	8.5	15.1	
2000 06 25		03 25.07	+48 52.7	4.732	4.036	42.1	9.7	14.9	
2000 07 05		03 28.73	+49 00.2	4.578	3.978	48.5	11.0	14.8	
2000 07 15		03 31.05	+49 11.6	4.403	3.921	55.7	12.4	14.7	
2000 07 25		03 31.67	+49 26.0	4.211	3.865	63.4	13.6	14.5	
2000 08 04		03 30.14	+49 42.0	4.004	3.810	71.7	14.6	14.3	
2000 08 14		03 25.91	+49 57.2	3.787	3.757	80.6	15.4	14.1	
2000 08 24		03 18.39	+50 07.8	3.564	3.704	90.0	15.8	13.9	
2000 09 03		03 06.93	+50 08.0	3.341	3.654	100.0	15.8	13.7	
2000 09 13		02 51.06	+49 48.8	3.126	3.605	110.5	15.2	13.5	
2000 09 23		02 30.71	+48 58.2	2.928	3.557	121.5	13.9	13.3	
2000 10 03		02 06.57	+47 22.2	2.756	3.511	132.5	12.1	13.2	
2000 10 13		01 40.26	+44 49.0	2.622	3.467	142.5	10.1	13.0	
2000 10 23		01 14.08	+41 15.3	2.533	3.425	149.1	8.6	12.9	
2000 11 02		00 50.24	+36 50.3	2.498	3.385	148.7	8.7	12.8	
2000 11 12		00 30.29	+31 55.6	2.516	3.347	141.4	10.6	12.8	
2000 11 22		00 14.78	+26 56.9	2.586	3.312	130.3	13.1	12.8	
2000 12 02		00 03.57	+22 16.0	2.698	3.278	118.0	15.4	12.8	
2000 12 12		23 56.16	+18 06.1	2.842	3.247	105.6	17.0	12.9	
2000 12 22		23 51.92	+14 32.2	3.005	3.219	93.5	17.8	13.0	
2001 01 01		23 50.23	+11 33.5	3.179	3.193	82.0	17.8	13.1	
2001 01 11		23 50.59	+09 06.3	3.352	3.170	70.9	17.0	13.1	
2001 01 21		23 52.53	+07 05.7	3.518	3.150	60.4	15.8	13.2	
2001 01 31		23 55.73	+05 26.7	3.670	3.133	50.2	14.0	13.3	
2001 02 10		23 59.88	+04 04.7	3.803	3.118	40.4	11.8	13.3	
2001 02 20		00 04.74	+02 55.5	3.913	3.107	30.9	9.4	13.4	

C/1999 S2 (McNaught-Watson)						Elements MPC 39022			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		02 51.98	-44 34.1	9.167	8.666	57.3	5.6	16.2	
2000 04 26		02 58.64	-43 47.9	9.196	8.708	58.2	5.6	16.2	
2000 05 06		03 05.30	-43 09.5	9.214	8.750	59.8	5.7	16.2	
2000 05 16		03 11.86	-42 39.1	9.222	8.792	62.0	5.8	16.3	
2000 05 26		03 18.25	-42 16.8	9.220	8.834	64.6	5.9	16.3	
2000 06 05		03 24.37	-42 02.5	9.210	8.877	67.8	6.1	16.3	
2000 06 15		03 30.14	-41 56.3	9.193	8.920	71.3	6.2	16.3	
2000 06 25		03 35.47	-41 57.9	9.168	8.962	75.2	6.3	16.3	
2000 07 05		03 40.28	-42 06.8	9.139	9.005	79.3	6.4	16.3	
2000 07 15		03 44.47	-42 22.5	9.106	9.049	83.6	6.4	16.4	
2000 07 25		03 47.95	-42 44.3	9.071	9.092	88.0	6.4	16.4	
2000 08 04		03 50.65	-43 11.3	9.036	9.136	92.4	6.4	16.4	
2000 08 14		03 52.47	-43 42.3	9.003	9.179	96.9	6.3	16.4	
2000 08 24		03 53.34	-44 16.0	8.974	9.223	101.1	6.2	16.4	
2000 09 03		03 53.22	-44 50.8	8.951	9.267	105.2	6.0	16.4	

2000 09 13	03 52.08	-45 24.8	8.937	9.311	108.9	5.9	16.4
2000 09 23	03 49.93	-45 56.1	8.933	9.355	112.0	5.7	16.5
2000 10 03	03 46.82	-46 22.9	8.940	9.400	114.5	5.6	16.5
2000 10 13	03 42.87	-46 43.0	8.961	9.444	116.2	5.4	16.5
2000 10 23	03 38.25	-46 54.9	8.997	9.489	116.9	5.4	16.5
2000 11 02	03 33.16	-46 57.2	9.047	9.534	116.7	5.3	16.6
2000 11 12	03 27.86	-46 48.8	9.113	9.578	115.3	5.4	16.6
2000 11 22	03 22.61	-46 29.6	9.194	9.623	113.0	5.4	16.7
2000 12 02	03 17.65	-45 59.7	9.289	9.668	109.9	5.5	16.7
2000 12 12	03 13.23	-45 19.9	9.397	9.714	106.0	5.6	16.7
2000 12 22	03 09.50	-44 31.3	9.516	9.759	101.5	5.7	16.8
2001 01 01	03 06.61	-43 35.3	9.644	9.804	96.5	5.7	16.8
2001 01 11	03 04.61	-42 33.8	9.778	9.850	91.3	5.7	16.9
2001 01 21	03 03.54	-41 28.3	9.917	9.895	85.9	5.7	16.9
2001 01 31	03 03.36	-40 20.5	10.057	9.941	80.5	5.6	17.0
2001 02 10	03 04.04	-39 11.9	10.195	9.987	75.1	5.5	17.0
2001 02 20	03 05.49	-38 04.1	10.330	10.032	69.9	5.3	17.1
2001 03 02	03 07.64	-36 58.0	10.458	10.078	65.0	5.1	17.1
2001 03 12	03 10.40	-35 55.0	10.578	10.124	60.4	4.9	17.2

143P/Kowal-Mrkos						Elements MPC 39792			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		11 19.55	-02 25.2	1.715	2.601	144.9	12.8		17.5
2000 04 26		11 18.44	-01 50.8	1.778	2.588	134.8	16.0		17.7
2000 05 06		11 19.71	-01 29.7	1.858	2.577	125.4	18.6		17.9
2000 05 16		11 23.33	-01 23.5	1.950	2.567	116.6	20.6		18.0
2000 05 26		11 29.14	-01 32.2	2.052	2.559	108.4	22.1		18.2
2000 06 05		11 36.91	-01 55.1	2.161	2.553	100.8	23.0		18.3
2000 06 15		11 46.39	-02 31.0	2.274	2.549	93.7	23.4		18.4
2000 06 25		11 57.32	-03 18.3	2.390	2.547	87.0	23.5		18.5
2000 07 05		12 09.51	-04 15.4	2.507	2.547	80.6	23.2		18.6
2000 07 15		12 22.76	-05 20.7	2.624	2.548	74.5	22.6		18.7
2000 07 25		12 36.92	-06 32.6	2.739	2.552	68.7	21.8		18.8
2000 08 04		12 51.87	-07 49.5	2.851	2.557	63.1	20.7		18.8
2000 08 14		13 07.51	-09 10.0	2.961	2.564	57.6	19.5		18.9
2000 08 24		13 23.74	-10 32.4	3.066	2.573	52.2	18.1		18.9
2000 09 03		13 40.53	-11 55.6	3.167	2.584	46.8	16.5		18.9
2000 09 13		13 57.80	-13 18.0	3.262	2.596	41.6	14.9		19.0
2000 09 23		14 15.50	-14 38.4	3.350	2.610	36.3	13.2		19.0
2000 10 03		14 33.59	-15 55.6	3.432	2.626	31.0	11.3		19.0

C/1999 H3 (LINEAR)						Elements MPC 39790			
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		11 33.29	+40 40.4	3.515	4.131	121.6	11.9	13.9	
2000 04 26		11 16.79	+39 05.1	3.682	4.178	113.0	12.8	14.0	
2000 05 06		11 03.97	+37 16.2	3.870	4.227	103.8	13.4	14.2	
2000 05 16		10 54.54	+35 21.0	4.074	4.276	94.6	13.6	14.4	
2000 05 26		10 48.04	+33 24.6	4.287	4.327	85.5	13.5	14.5	
2000 06 05		10 43.98	+31 30.2	4.502	4.379	76.5	13.0	14.7	
2000 06 15		10 41.89	+29 39.6	4.715	4.431	67.8	12.3	14.8	
2000 06 25		10 41.38	+27 53.6	4.920	4.485	59.2	11.2	15.0	
2000 07 05		10 42.11	+26 12.4	5.113	4.539	50.8	10.0	15.1	
2000 07 15		10 43.80	+24 36.1	5.291	4.594	42.5	8.6	15.2	
2000 07 25		10 46.21	+23 04.6	5.452	4.650	34.5	7.1	15.4	

2000 APR. 18

M.P.C. 40537

P/2000 G1 (LINEAR)

		Elements <i>MPC</i> 39792							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 04 16		18 07.00	−02 27.4	0.257	1.128	112.7	55.1		18.8
2000 04 26		18 01.66	+01 27.0	0.304	1.195	121.9	45.7		19.0
2000 05 06		17 51.57	+03 49.7	0.353	1.270	131.5	36.5		19.2
2000 05 16		17 38.55	+04 54.8	0.407	1.351	140.7	28.3		19.5
2000 05 26		17 24.83	+04 54.4	0.472	1.437	148.5	21.6		19.7
2000 06 05		17 12.38	+04 02.6	0.549	1.524	153.0	17.6		20.0
2000 06 15		17 02.71	+02 35.3	0.641	1.613	152.9	16.6		20.5
2000 06 25		16 56.50	+00 48.3	0.749	1.703	149.0	17.9		21.0
2000 07 05		16 53.77	−01 06.5	0.873	1.792	142.9	20.0		21.5
2000 07 15		16 54.29	−03 01.1	1.012	1.881	136.0	22.0		22.0
2000 07 25		16 57.57	−04 50.2	1.165	1.968	128.9	23.7		22.4
2000 08 04		17 03.18	−06 31.2	1.330	2.055	121.9	24.8		22.8

16P/Brooks 2

		Elements <i>MPC</i> 31664							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 16		17 31.42	−15 57.3	2.688	3.609	151.5	7.7		22.5
2000 05 26		17 24.90	−15 38.6	2.587	3.564	162.0	5.0		22.2
2000 06 05		17 17.16	−15 21.9	2.513	3.519	170.9	2.6		22.0
2000 06 15		17 08.82	−15 08.1	2.469	3.473	169.8	3.0		22.0
2000 06 25		17 00.57	−14 58.6	2.452	3.426	160.3	5.8		22.1
2000 07 05		16 53.10	−14 54.1	2.463	3.379	149.5	8.8		22.2
2000 07 15		16 47.04	−14 55.6	2.499	3.332	138.9	11.6		22.3
2000 07 25		16 42.82	−15 03.2	2.554	3.284	128.5	14.0		22.4
2000 08 04		16 40.70	−15 16.8	2.625	3.236	118.6	16.0	22.3	22.5

C/1999 S4 (LINEAR)

		Elements <i>MPC</i> 39791							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 16		01 57.50	+29 43.8	2.366	1.500	24.0	15.9	10.6	
2000 05 21		02 00.05	+30 25.8	2.253	1.430	27.3	18.9	10.3	
2000 05 26		02 02.66	+31 13.1	2.130	1.361	30.7	22.3	10.0	
2000 05 31		02 05.38	+32 07.0	1.999	1.293	34.2	26.2	9.6	
2000 06 05		02 08.26	+33 09.1	1.858	1.225	37.7	30.5	9.2	
2000 06 10		02 11.40	+34 21.8	1.708	1.158	41.3	35.3	8.8	
2000 06 15		02 15.01	+35 48.8	1.549	1.093	44.7	40.8	8.3	
2000 06 20		02 19.46	+37 35.8	1.383	1.031	48.0	47.1	7.8	
2000 06 25		02 25.45	+39 52.0	1.208	0.972	50.9	54.3	7.3	
2000 06 30		02 34.41	+42 53.2	1.028	0.917	53.3	62.7	6.7	
2000 07 05		02 49.68	+47 06.6	0.846	0.869	54.7	72.7	6.0	
2000 07 10		03 20.66	+53 17.0	0.666	0.828	54.2	85.1	5.3	
2000 07 15		04 41.53	+61 44.0	0.503	0.796	50.3	100.5	4.5	
2000 07 20		08 16.08	+63 07.7	0.392	0.775	42.6	117.4	3.9	
2000 07 25		11 01.01	+41 05.1	0.385	0.765	40.6	120.3	3.8	
2000 07 30		11 56.45	+18 36.1	0.488	0.769	46.8	105.5	4.3	
2000 08 04		12 18.82	+05 13.1	0.648	0.784	50.6	89.7	5.0	
2000 08 09		12 29.64	−02 31.4	0.827	0.811	51.1	76.5	5.7	
2000 08 14		12 35.49	−07 22.1	1.009	0.848	49.6	65.4	6.3	
2000 08 19		12 38.95	−10 39.2	1.188	0.894	47.1	56.1	6.9	
2000 08 24		12 41.20	−13 02.6	1.359	0.946	44.0	48.0	7.4	
2000 08 29		12 42.83	−14 53.1	1.522	1.003	40.7	41.0	7.9	
2000 09 03		12 44.17	−16 22.6	1.675	1.063	37.2	35.0	8.4	
2000 09 08		12 45.37	−17 38.3	1.818	1.127	33.6	29.7	8.8	
2000 09 13		12 46.51	−18 44.6	1.951	1.193	30.1	25.0	9.2	

2000 09 18	12 47.64	−19 44.4	2.073	1.260	26.8	21.0	9.6
2000 09 23	12 48.77	−20 39.8	2.186	1.329	23.6	17.6	9.9

P/1987 Q3 (Helin)

		Elements <i>MPC</i> 31664							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 26		17 39.05	−17 56.0	3.367	4.330	159.4	4.7	22.2	22.7
2000 06 05		17 33.15	−17 50.6	3.280	4.282	169.5	2.5	22.1	22.5
2000 06 15		17 26.66	−17 47.0	3.221	4.233	174.2	1.4	21.9	22.4
2000 06 25		17 20.05	−17 45.3	3.192	4.185	165.7	3.4	21.8	22.5
2000 07 05		17 13.86	−17 46.0	3.191	4.136	155.2	5.9	21.8	22.6
2000 07 15		17 08.56	−17 49.6	3.216	4.087	144.6	8.3	21.7	22.7

39P/Oterma

		Elements <i>MPC</i> 34423							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 26		21 47.20	−13 57.5	6.080	6.348	100.8	9.0	21.0	22.5
2000 06 05		21 48.26	−13 51.6	5.912	6.332	110.1	8.7	20.9	22.5
2000 06 15		21 48.34	−13 50.6	5.753	6.317	119.6	8.0	20.8	22.4
2000 06 25		21 47.44	−13 54.5	5.608	6.302	129.4	7.2	20.7	22.3
2000 07 05		21 45.60	−14 03.1	5.480	6.287	139.4	6.0	20.7	22.2
2000 07 15		21 42.90	−14 15.8	5.374	6.271	149.6	4.7	20.6	22.0
2000 07 25		21 39.49	−14 31.8	5.292	6.256	160.0	3.2	20.6	21.9
2000 08 04		21 35.56	−14 49.8	5.238	6.241	170.6	1.5	20.5	21.8
2000 08 14		21 31.36	−15 08.8	5.214	6.226	178.7	0.2	20.5	21.6
2000 08 24		21 27.15	−15 27.2	5.219	6.211	168.1	1.9	20.5	21.8
2000 09 03		21 23.21	−15 43.9	5.253	6.197	157.4	3.6	20.5	21.9
2000 09 13		21 19.81	−15 57.7	5.315	6.182	146.9	5.1	20.5	22.0
2000 09 23		21 17.15	−16 07.8	5.401	6.167	136.5	6.4	20.5	22.1
2000 10 03		21 15.42	−16 13.6	5.508	6.152	126.2	7.5	20.5	22.2
2000 10 13		21 14.72	−16 14.8	5.632	6.138	116.2	8.4	20.6	22.3
2000 10 23		21 15.09	−16 11.2	5.768	6.124	106.4	9.0	20.6	22.3
2000 11 02		21 16.54	−16 02.7	5.913	6.109	96.7	9.3	20.6	22.4
2000 11 12		21 19.03	−15 49.5	6.060	6.095	87.4	9.3	20.7	22.5
2000 11 22		21 22.48	−15 31.8	6.206	6.081	78.2	9.1	20.7	22.5
2000 12 02		21 26.83	−15 09.7	6.348	6.067	69.1	8.7	20.8	22.5
2000 12 12		21 31.95	−14 43.4	6.480	6.053	60.3	8.1	20.8	22.5
2000 12 22		21 37.75	−14 13.4	6.600	6.039	51.6	7.3	20.8	22.5
2001 01 01		21 44.13	−13 39.9	6.706	6.025	43.1	6.4	20.8	22.5
2001 01 11		21 50.96	−13 03.2	6.795	6.012	34.6	5.3	20.8	22.5

110P/Hartley 3

		Elements <i>MPC</i> 31663							
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	m_2
2000 05 26		01 43.34	+20 37.2	3.795	3.019	34.8	11.0	18.3	21.5
2000 06 05		01 58.09	+22 05.9	3.689	2.990	40.4	12.7	18.1	21.5
2000 06 15		02 12.85	+23 32.2	3.574	2.961	46.1	14.3	17.9	21.4
2000 06 25		02 27.54	+24 55.5	3.450	2.933	51.8	15.8	17.7	21.4
2000 07 05		02 42.10	+26 15.5	3.319	2.905	57.7	17.2	17.5	21.3
2000 07 15		02 56.39	+27 31.5	3.181	2.877	63.6	18.4	17.3	21.3
2000 07 25		03 10.30	+28 43.4	3.038	2.850	69.7	19.5	17.1	21.2
2000 08 04		03 23.66	+29 50.9	2.892	2.824	76.0	20.4	16.8	21.1
2000 08 14		03 36.24	+30 53.6	2.743	2.798	82.6	21.0	16.6	21.0
2000 08 24		03 47.81	+31 51.4	2.593	2.773	89.4	21.4	16.4	20.8
2000 09 03		03 58.06	+32 44.0	2.444	2.748	96.5	21.4	16.1	20.7
2000 09 13		04 06.65	+33 31.0	2.299	2.724	104.1	21.0	15.9	20.5
2000 09 23		04 13.20	+34 11.8	2.159	2.701	112.1	20.1	15.6	20.3

2000 10 03	04 17.32	+34 45.1	2.027	2.679	120.6	18.8	15.4	20.1
2000 10 13	04 18.68	+35 08.9	1.907	2.657	129.7	16.8	15.1	19.9
2000 10 23	04 17.10	+35 20.5	1.802	2.637	139.2	14.3	14.9	19.7
2000 11 02	04 12.64	+35 16.4	1.716	2.618	149.2	11.2	14.7	19.5
2000 11 12	04 05.79	+34 53.4	1.652	2.599	158.8	7.9	14.5	19.2
2000 11 22	03 57.48	+34 10.2	1.613	2.582	165.9	5.3	14.4	19.0
2000 12 02	03 48.95	+33 08.6	1.601	2.566	165.0	5.7	14.3	19.0
2000 12 12	03 41.52	+31 53.9	1.616	2.551	157.0	8.7	14.2	19.2
2000 12 22	03 36.27	+30 33.9	1.656	2.538	146.9	12.2	14.2	19.4
2001 01 01	03 33.84	+29 16.3	1.718	2.525	136.7	15.5	14.2	19.5
2001 01 11	03 34.52	+28 07.1	1.799	2.514	126.8	18.3	14.3	19.7
2001 01 21	03 38.20	+27 09.4	1.895	2.505	117.4	20.4	14.4	19.9
2001 01 31	03 44.67	+26 24.1	2.001	2.497	108.6	22.0	14.4	20.1
2001 02 10	03 53.61	+25 50.1	2.115	2.490	100.4	22.9	14.5	20.2
2001 02 20	04 04.66	+25 25.4	2.234	2.485	92.7	23.4	14.6	20.3
2001 03 02	04 17.52	+25 07.6	2.355	2.481	85.4	23.5	14.7	20.4
2001 03 12	04 31.90	+24 53.9	2.475	2.479	78.6	23.1	14.8	20.5
2001 03 22	04 47.52	+24 41.9	2.595	2.478	72.2	22.5	14.9	20.6
2001 04 01	05 04.19	+24 29.3	2.711	2.479	66.0	21.6	15.0	20.7
2001 04 11	05 21.69	+24 14.1	2.824	2.482	60.1	20.5	15.1	20.7
2001 04 21	05 39.82	+23 54.7	2.931	2.485	54.4	19.2	15.2	20.8
2001 05 01	05 58.45	+23 29.8	3.033	2.491	49.0	17.8	15.3	20.8
2001 05 11	06 17.40	+22 58.4	3.129	2.498	43.6	16.2	15.4	20.8
2001 05 21	06 36.55	+22 19.7	3.218	2.506	38.5	14.5	15.5	20.8
2001 05 31	06 55.78	+21 33.3	3.300	2.515	33.4	12.8	15.6	20.8

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
1990 QP ₄	2000 03 18.0	11 51.64	+00 09.6	18.7	-0.97	+ 5.3	0.3/18.2	39939
(14541)	2000 03 18.0	11 51.78	+10 31.3	18.6	-0.75	+ 4.7	2.6/14.8	39858
1998 SK ₅₅	2000 03 18.0	11 51.79	+00 34.6	19.4	-0.91	+ 6.8	0.1/18.1	34222
2000 EZ ₁₂₇	2000 03 18.0	11 51.80	+04 57.9	18.5	-0.74	+ 4.8	1.2/16.7	40194
1998 XC ₉₂	2000 03 18.0	11 51.82	-14 21.9	17.3	-0.76	+ 4.9	4.4/23.3	40350
1998 SU ₃₇	2000 03 18.0	11 51.86	-06 19.9	16.7	-0.86	+ 8.9	2.9/20.6	40337
(14750)	2000 03 18.0	11 51.91	+02 29.6	18.7	-0.77	+ 5.4	0.5/17.5	39918
1998 SW ₁₂₂	2000 03 18.0	11 51.91	-00 18.1	18.9	-0.93	+ 6.0	0.4/18.4	40340
1998 VV ₃₄	2000 03 18.0	11 51.95	-00 23.3	16.6	-1.07	+ 4.0	0.5/18.4	40346
(10173)	2000 03 18.0	11 51.97	-06 47.9	19.1	-0.71	+ 6.5	2.2/20.8	33899
2000 AN ₁₆₄	2000 03 18.0	11 52.04	-17 13.2	16.4	-1.05	+ 0.6	6.9/23.2	40441
2000 FQ ₄₂	2000 03 18.1	11 51.95	+07 01.9	17.3	-0.84	+ 5.7	2.1/16.1	40250
(10278)	2000 03 18.1	11 51.99	+01 03.5	18.2	-1.01	+ 7.0	0.1/18.1	34131
1998 RE ₇₄	2000 03 18.1	11 52.02	-04 31.1	18.6	-0.99	+ 5.3	1.9/19.8	39537
(10078)	2000 03 18.1	11 52.03	+01 42.0	16.9	-1.06	+ 1.7	0.3/17.9	33876
2000 EN ₅₆	2000 03 18.1	11 52.10	+04 42.9	16.9	-0.62	+14.6	1.5/16.5	40481
2000 EH ₁₃₂	2000 03 18.1	11 52.11	-01 27.1	18.5	-0.95	+ 7.6	0.9/18.9	40198
2000 EE ₁₂₈	2000 03 18.1	11 52.13	+06 03.9	18.4	-0.83	+ 4.9	1.6/16.5	40194
1998 WY ₁₀	2000 03 18.1	11 52.19	+10 34.2	18.4	-0.92	+ 5.3	3.3/15.0	40045
1991 TQ ₁	2000 03 18.1	11 52.20	+22 20.5	16.8	-1.31	- 0.9	7.5/12.9	40298
6190 P-L	2000 03 18.1	11 52.27	-05 22.7	17.4	-0.95	+ 7.2	2.5/20.2	40275
1997 TY ₅	2000 03 18.1	11 52.36	+06 09.3	17.9	-0.79	+ 5.1	1.6/16.4	39981
(14124)	2000 03 18.1	11 52.38	+09 13.7	18.0	-1.00	+ 2.6	2.7/15.8	39086
2000 AV ₂₀₃	2000 03 18.2	11 52.58	-19 13.9	17.5	-0.98	+ 1.8	7.2/24.2	40443

2000 AK ₁₆₄	2000 03 18.2	11 52.61	-03 36.1	16.0	-0.74	+11.9	1.6/19.9	40441
2000 EL ₉₁	2000 03 18.2	11 52.65	-07 30.2	17.5	-0.91	+ 7.2	2.9/21.0	40174
1989 CF ₃	2000 03 18.2	11 52.71	-10 31.9	17.5	-0.90	+ 7.0	4.6/22.1	40293
2000 CF ₉₃	2000 03 18.3	11 52.67	+06 29.9	17.6	-0.75	+ 7.2	1.6/16.3	40107
2000 EK ₁₃₂	2000 03 18.3	11 52.68	-01 01.9	17.3	-0.88	+ 8.7	0.7/18.9	40491
2000 DL ₃	2000 03 18.3	11 52.69	+01 24.1	16.8	-0.70	+ 7.5	0.2/18.1	40460
2000 DB ₁₆	2000 03 18.3	11 52.70	+00 16.9	16.5	-1.04	- 0.1	0.2/18.4	40461
2000 EB ₅₈	2000 03 18.3	11 52.78	+00 08.9	17.7	-0.76	+ 4.9	0.2/18.5	40158
2000 EU ₅₇	2000 03 18.3	11 52.79	-02 13.8	18.3	-0.81	+ 6.9	1.3/19.3	40158
1993 FH ₁₈	2000 03 18.3	11 52.83	+08 27.3	17.6	-0.89	+ 7.1	3.3/15.8	39947
1998 QU ₉₂	2000 03 18.3	11 52.92	+11 56.8	17.5	-0.96	+ 5.2	3.7/14.8	40332
2000 DB ₃	2000 03 18.3	11 52.94	+09 32.6	17.2	-0.85	+ 1.7	2.4/15.7	40460
2000 FC ₁₆	2000 03 18.3	11 52.98	+13 03.8	17.3	-0.79	+ 6.4	3.6/14.1	40225
2000 FA ₁₆	2000 03 18.3	11 53.00	+10 39.7	17.8	-0.87	+ 4.5	3.2/15.2	40224
2000 EH ₁₃₇	2000 03 18.3	11 53.14	+03 42.9	18.9	-1.04	+ 5.2	1.2/17.5	40203
2000 EX ₁₃₂	2000 03 18.4	11 53.12	+02 22.6	18.2	-0.96	+ 3.8	0.5/17.9	40198
1991 VQ ₉	2000 03 18.4	11 53.13	+03 14.9	19.6	-0.96	+ 6.9	0.9/17.6	39944
1998 WE ₇	2000 03 18.4	11 53.21	+28 26.1	17.0	-1.04	+ 2.7	10.5/08.8	40347
1998 WK	2000 03 18.4	11 53.24	-02 37.4	18.9	-0.85	+ 5.8	1.1/19.5	40347
(9977)	2000 03 18.4	11 53.24	+03 38.5	17.0	-0.77	+ 5.6	0.9/17.5	33666
(9932)	2000 03 18.4	11 53.24	+00 48.7	16.7	-1.05	+ 1.3	0.0/18.4	33655
1993 FO ₅₀	2000 03 18.4	11 53.27	-00 26.1	18.1	-0.97	+ 5.6	0.5/18.8	40302
(13941)	2000 03 18.4	11 53.27	+06 28.4	16.9	-0.89	+ 5.4	2.0/16.6	39035
1996 EC ₁	2000 03 18.4	11 53.32	+01 39.2	17.1	-0.91	+ 5.0	0.3/18.2	40312
1995 CW ₁	2000 03 18.4	11 53.37	-24 22.4	18.7	-0.78	+ 8.4	7.0/28.2	30455
(14657)	2000 03 18.4	11 53.39	-15 44.8	17.9	-0.87	+ 4.0	4.5/23.7	39893
1998 XU ₂	2000 03 18.4	11 53.42	-05 25.2	18.1	-0.93	+ 2.8	1.8/20.3	40349
(9894)	2000 03 18.4	11 53.49	+05 15.0	17.0	-0.98	+ 4.9	1.6/17.1	33467
(14485)	2000 03 18.5	11 53.40	-01 05.4	18.1	-0.92	+ 5.8	0.6/19.1	39843
2254 T-3	2000 03 18.5	11 53.43	+19 35.3	17.7	-1.69	- 5.1	8.9/15.1	40283
2000 EJ ₁₂₈	2000 03 18.5	11 53.44	+06 31.9	17.8	-0.89	+ 7.2	2.4/16.6	40490
1996 AA ₁₄	2000 03 18.5	11 53.45	+02 14.2	19.1	-0.99	+ 4.1	0.5/18.1	40311
(14624)	2000 03 18.5	11 53.47	-03 44.4	17.8	-0.80	+ 7.4	1.4/20.1	39883
2000 FB ₁₆	2000 03 18.5	11 53.60	+13 00.1	17.0	-0.98	+ 6.8	5.0/14.4	40224
1998 RB ₇₅	2000 03 18.5	11 53.68	+01 38.7	17.4	-1.07	+ 3.6	0.4/18.3	40335
2000 CG ₉₃	2000 03 18.5	11 53.80	+05 27.6	17.6	-0.94	+ 8.4	1.9/17.0	40107
1026 T-2	2000 03 18.5	11 53.82	+01 00.8	17.6	-1.02	+ 4.5	0.1/18.5	40279
5143 T-2	2000 03 18.6	11 53.77	-09 23.3	21.3	-1.00	+ 4.5	3.4/21.6	26912
1998 SU ₆₅	2000 03 18.6	11 53.83	+11 09.9	15.9	-0.94	+ 5.6	5.0/15.2	40339
(10753)	2000 03 18.6	11 53.86	-05 17.3	17.6	-0.84	+ 5.2	2.0/20.6	34758
2000 EG ₈₇	2000 03 18.6	11 53.91	-03 32.1	16.9	-1.03	+ 4.2	1.5/19.9	40486
1994 TY	2000 03 18.6	11 54.04	+10 09.2	18.1	-1.04	+ 2.3	3.1/16.0	39958
1998 QA ₅₂	2000 03 18.6	11 54.11	-08 21.5	18.4	-1.06	+ 5.5	3.4/21.4	39988
2000 AY ₁₃₇	2000 03 18.6	11 54.18	+06 01.4	16.2	-1.00	+ 2.6	2.2/17.1	40091
2000 EL ₉₄	2000 03 18.7	11 54.17	-08 46.5	16.9	-1.05	+ 1.5	3.3/21.2	40178
(13026)	2000 03 18.7	11 54.37	-30 07.9	16.5	-1.57	- 5.4	13.6/26.2	37494
2000 ET ₁₄₁	2000 03 18.7	11 54.45	+05 14.4	17.1	-0.89	+ 6.1	1.6/17.3	40205
1981 EG ₂₂	2000 03 18.7	11 54.47	-03 02.8	17.4	-1.11	- 1.2	1.7/19.7	40290
1998 WS ₇	2000 03 18.7	11 54.51	+09 15.5	18.0	-1.01	+ 2.1	2.9/16.3	40347
(11305)	2000 03 18.8	11 54.51	+06 04.3	17.2	-0.98	+ 5.6	2.0/17.1	35567
2000 EX ₁₃₁	2000 03 18.8	11 54.61	+04 21.0	17.2	-0.86	+ 2.3	1.1/17.7	40197

(13649)	2000 03 18.8	11 54.67 +02 03.2 16.5	-0.76 + 4.5	0.5/18.4	38356
1997 GO ₃₅	2000 03 18.8	11 54.68 +07 00.8 19.0	-1.02 + 5.9	2.4/16.8	39976
2000 DC ₁₆	2000 03 18.8	11 54.69 +01 04.5 16.6	-0.97 + 1.5	0.2/18.7	40461
2000 EW ₉₁	2000 03 18.8	11 54.85 -07 18.5 17.0	-0.71 + 7.4	2.2/21.7	40174
1997 TD ₁₉	2000 03 18.9	11 54.89 +01 04.5 17.6	-0.76 + 5.6	0.2/18.7	40320
2000 CE ₉₃	2000 03 18.9	11 55.03 +08 18.0 17.0	-0.74 + 8.8	2.7/16.1	40457
2000 CH ₉₄	2000 03 18.9	11 55.04 +00 26.4 17.6	-0.84 + 2.1	0.0/19.0	40458
2000 EM ₁₅	2000 03 18.9	11 55.05 +06 07.5 17.8	-1.00 + 5.1	2.0/17.2	40131
1998 SM ₁₂₁	2000 03 18.9	11 55.05 -07 12.4 17.1	-0.94 + 6.4	3.2/21.4	40012
1998 VK ₅	2000 03 18.9	11 55.17 -00 23.6 18.9	-0.89 + 4.7	0.3/19.3	33763
2000 ET ₉₁	2000 03 18.9	11 55.17 -04 08.0 17.3	-1.06 + 5.9	1.8/20.4	40174
2000 FR ₄₂	2000 03 18.9	11 55.17 +07 26.1 16.7	-0.97 + 3.4	2.6/16.9	40250
1996 FM ₂	2000 03 18.9	11 55.21 +02 04.2 16.9	-0.82 + 7.7	0.6/18.4	40312
1973 SX ₂	2000 03 19.0	11 55.23 -08 21.8 16.4	-0.79 + 9.6	2.8/22.2	40288
1998 XF ₂₃	2000 03 19.0	11 55.27 -01 56.3 16.4	-0.90 + 5.4	1.1/19.8	40349
1978 SH ₃	2000 03 19.0	11 55.37 -03 24.7 17.6	-0.96 + 7.5	1.4/20.3	40288
1998 YA ₇	2000 03 19.0	11 55.42 +18 42.2 17.6	-0.81 + 4.8	5.3/12.8	40060
4233 T-2	2000 03 19.0	11 55.43 +03 56.9 20.3	-0.85 + 6.6	1.1/17.9	27117
1996 FJ ₅	2000 03 19.0	11 55.64 +07 50.3 16.2	-1.04 + 1.5	2.4/17.1	40312
1998 SV ₁₃₀	2000 03 19.1	11 55.64 +04 40.5 17.6	-0.98 + 1.8	1.6/17.9	40014
1997 MN ₄	2000 03 19.1	11 55.71 -07 17.3 18.5	-0.93 + 5.6	2.4/21.6	40318
2000 EM ₁₃₃	2000 03 19.1	11 55.72 +03 06.3 18.0	-0.77 + 5.7	0.8/18.2	40199
2000 EZ ₁₇₀	2000 03 19.1	11 55.74 +15 03.4 17.8	-0.67 + 4.6	3.5/14.0	40216
1997 NR ₁₀	2000 03 19.1	11 55.78 +03 49.7 20.0	-0.91 + 7.9	1.1/18.0	40318
1998 QP ₉₃	2000 03 19.1	11 55.86 +11 33.5 17.1	-0.91 + 6.6	3.8/15.5	40332
2000 EC ₃₄	2000 03 19.1	11 55.87 +19 53.0 17.4	-0.80 + 8.1	7.4/11.8	40476
1998 SH ₁₄₅	2000 03 19.1	11 55.87 +02 56.9 19.8	-0.95 + 5.3	0.8/18.4	40342
(14238)	2000 03 19.1	11 55.93 -06 23.6 15.1	-0.93 + 2.1	3.1/21.1	39119
2000 AM ₉₈	2000 03 19.1	11 55.96 +15 06.6 17.0	-0.91 + 5.9	5.6/14.3	40435
1992 ST ₁₃	2000 03 19.2	11 55.96 +03 31.5 17.4	-0.73 + 6.4	0.9/18.1	40300
(10032)	2000 03 19.2	11 55.99 -01 32.9 18.7	-0.75 + 3.5	0.5/19.8	33865
2000 EX ₉₁	2000 03 19.2	11 56.08 -06 08.8 18.0	-0.67 + 8.8	1.8/21.7	40174
1998 RW ₃₂	2000 03 19.2	11 56.21 +00 37.0 19.2	-1.02 + 6.7	0.1/19.2	40333
2000 AB ₁₃₈	2000 03 19.2	11 56.42 +03 31.3 16.4	-1.08 + 2.8	1.3/18.4	40092
4071 T-2	2000 03 19.3	11 56.38 +06 07.3 18.2	-0.81 + 4.9	1.8/17.4	40533
(14725)	2000 03 19.3	11 56.56 +15 35.8 17.1	-0.79 + 3.0	4.1/14.4	39912
(13173)	2000 03 19.3	11 56.57 +06 38.7 16.6	-0.88 + 6.6	2.7/17.3	37532
1998 XM ₃	2000 03 19.3	11 56.65 +08 13.2 20.0	-0.89 + 4.3	2.1/16.9	35727
2000 EU ₉₁	2000 03 19.3	11 56.68 -04 39.4 18.2	-0.87 + 5.9	2.0/21.0	40174
2000 EY ₁₃₁	2000 03 19.3	11 56.71 +05 24.4 18.3	-0.90 + 8.1	2.0/17.7	40198
1997 GY	2000 03 19.4	11 56.81 -01 54.9 17.2	-0.92 + 8.1	1.1/20.2	40316
2000 ER ₁₂₇	2000 03 19.4	11 56.82 +08 51.6 17.7	-0.79 +10.2	3.7/16.3	40490
(14610)	2000 03 19.4	11 56.82 -04 40.6 17.1	-0.79 + 7.8	1.7/21.2	39879
1998 XK ₆₈	2000 03 19.4	11 56.97 -07 13.5 18.4	-0.84 + 5.3	2.5/21.9	40350
2000 EC ₉₃	2000 03 19.4	11 57.06 +20 39.1 16.8	-0.68 + 8.0	5.1/11.5	40486
1997 US ₁₀	2000 03 19.4	11 57.08 -12 13.7 17.5	-0.76 + 6.9	3.9/23.9	40320
(13919)	2000 03 19.5	11 57.09 -08 18.8 16.5	-0.99 + 5.5	3.1/22.2	39028
2000 EQ ₁₂₇	2000 03 19.5	11 57.17 +10 26.2 16.8	-0.72 + 8.7	3.1/15.8	40490
2000 ER ₅₆	2000 03 19.5	11 57.20 +03 09.6 16.6	-0.86 + 7.1	1.2/18.6	40481
1981 EY ₂₂	2000 03 19.5	11 57.20 +00 36.9 17.3	-0.97 + 8.6	0.1/19.4	40290
(14499)	2000 03 19.5	11 57.23 +08 39.3 17.7	-1.01 + 7.1	3.0/16.9	39847

1998 UE ₂₁	2000 03 19.5	11 57.36 -00 03.3 18.2	-0.96 + 6.3	0.1/19.7	40029
2000 FO ₁₆	2000 03 19.6	11 57.42 +07 36.7 18.0	-0.79 + 6.7	2.5/17.1	40225
1998 UN ₁₆	2000 03 19.6	11 57.44 +21 43.6 17.2	-0.91 + 1.3	7.1/13.1	40027
1998 XS ₃	2000 03 19.6	11 57.45 +04 17.7 18.4	-0.78 + 4.3	1.2/18.3	40349
1998 SK ₁₃₆	2000 03 19.6	11 57.52 +10 11.6 17.3	-0.91 + 4.6	3.8/16.5	40015
1974 PC	2000 03 19.6	11 57.53 +22 22.8 19.2	-0.93 +10.1	6.6/11.3	39510
1998 SU ₂₆	2000 03 19.6	11 57.54 -21 53.6 18.1	-0.87 + 1.8	6.3/26.7	33757
1998 SD ₆₀	2000 03 19.6	11 57.58 +05 48.5 18.5	-0.94 + 5.6	2.0/17.9	40007
2000 EN ₅₀	2000 03 19.6	11 57.60 +00 37.5 18.3	-1.09 + 0.6	0.1/19.5	40155
2000 EK ₁₃₃	2000 03 19.6	11 57.75 -01 28.3 17.7	-0.92 + 6.5	0.7/20.2	40198
2000 EW ₁₂₈	2000 03 19.6	11 57.80 +06 01.1 17.2	-0.95 + 3.3	2.4/17.9	40195
2000 EP ₅₆	2000 03 19.6	11 57.83 +02 54.5 17.0	-0.74 + 5.4	0.8/18.8	40481
2000 CL ₉₄	2000 03 19.7	11 57.80 +03 33.4 16.6	-0.97 + 8.5	1.3/18.6	40458
2000 ET ₅₉	2000 03 19.7	11 57.81 +00 21.2 19.1	-0.96 + 7.7	0.0/19.7	40160
2000 AT ₂₃₇	2000 03 19.7	11 57.89 +03 11.9 16.7	-0.69 + 8.4	0.9/18.6	40444
2000 EF ₁₄₀	2000 03 19.7	11 57.92 +18 57.6 17.2	-0.79 + 4.5	5.7/13.2	40205
(14742)	2000 03 19.7	11 57.97 +03 17.8 17.9	-0.74 + 5.1	0.8/18.7	39916
2000 FO ₃₁	2000 03 19.7	11 58.00 +17 08.7 17.5	-0.92 + 5.3	6.1/14.0	40503
2000 ER ₈₇	2000 03 19.7	11 58.03 +00 27.0 17.9	-0.86 + 5.1	0.1/19.7	40172
1998 XT ₆₂	2000 03 19.7	11 58.13 -14 18.6 16.6	-0.95 + 0.1	4.7/23.8	40350
(10117)	2000 03 19.7	11 58.17 -02 15.6 18.1	-0.71 + 7.3	0.7/20.7	33885
2000 EJ ₈₇	2000 03 19.8	11 58.23 -02 59.4 17.2	-0.94 + 3.9	1.3/20.8	40172
2000 GV ₂	2000 03 19.8	11 58.26 +13 19.6 17.4	-1.07 + 6.4	5.1/15.5	40508
(9796)	2000 03 19.8	11 58.30 +13 43.6 16.5	-1.07 + 0.9	4.9/16.1	33210
1998 QJ ₄	2000 03 19.8	11 58.44 +05 44.8 17.7	-0.99 + 5.5	2.0/18.1	40329
2000 CF ₉₄	2000 03 19.8	11 58.45 -01 16.2 16.9	-0.87 + 2.4	0.5/20.3	40458
(14639)	2000 03 19.8	11 58.46 -01 04.5 18.5	-0.83 + 5.4	0.4/20.3	39888
1982 UU ₈	2000 03 19.8	11 58.47 -11 41.7 18.4	-0.89 + 6.2	3.6/23.8	40291
2000 EL ₈₇	2000 03 19.8	11 58.55 -03 49.0 16.6	-0.99 + 2.8	1.8/21.0	40486
1998 UP ₂₄	2000 03 19.8	11 58.56 +03 07.2 18.8	-0.90 + 6.7	1.0/18.9	40344
1997 GG ₂₃	2000 03 19.9	11 58.52 +12 46.3 17.2	-1.08 + 3.5	5.1/16.2	39975
2000 EN ₁₃₃	2000 03 19.9	11 58.56 +03 07.9 17.8	-0.87 + 4.6	0.8/19.0	40199
2000 ES ₅₀	2000 03 19.9	11 58.61 +16 38.7 17.4	-0.80 + 3.8	4.6/14.4	40480
3479 T-3	2000 03 19.9	11 58.68 -00 56.9 20.2	-0.84 + 6.5	0.3/20.3	40535
1998 WA ₂₀	2000 03 19.9	11 58.76 +16 55.2 16.9	-0.76 + 5.6	5.1/14.0	40348
2000 EV ₅₉	2000 03 19.9	11 58.79 +00 48.0 18.4	-1.04 + 6.4	0.3/19.8	40160
2000 EA ₁₅₄	2000 03 19.9	11 58.81 +09 40.7 17.7	-0.93 + 4.1	3.0/17.0	40212
1998 SH ₁₁₇	2000 03 19.9	11 58.89 -06 47.8 19.3	-0.86 + 6.7	2.1/22.3	35719
1998 SR ₂₁	2000 03 19.9	11 58.93 -06 10.9 17.5	-0.87 + 8.4	2.4/22.2	40336
1997 UT ₂₁	2000 03 19.9	11 58.95 +09 08.3 17.7	-0.84 + 2.8	2.5/17.2	39983
2000 FN ₃₁	2000 03 20.0	11 58.96 +15 24.3 17.4	-1.07 + 4.2	5.6/15.4	40237
2000 EX ₁₅₃	2000 03 20.0	11 59.03 +10 45.3 17.5	-0.85 + 7.1	3.7/16.3	40212
(10169)	2000 03 20.0	11 59.05 +05 21.7 16.3	-0.71 + 9.0	1.8/18.1	33898
1998 UT ₂₂	2000 03 20.0	11 59.13 +22 50.7 19.7	-0.96 + 3.7	7.2/12.7	35722
3256 T-3	2000 03 20.0	11 59.15 +01 45.1 17.4	-0.76 + 5.5	0.5/19.5	40535
2000 EX ₁₂₈	2000 03 20.0	11 59.19 +07 08.0 18.3	-0.77 + 7.8	2.1/17.6	40195
1994 VP ₁	2000 03 20.0	11 59.21 -10 58.0 19.3	-0.87 + 6.2	3.6/23.8	33246
2000 EB ₃₄	2000 03 20.0	11 59.25 +14 19.4 17.5	-0.95 + 6.1	5.2/15.4	40476
1998 UO ₄₀	2000 03 20.0	11 59.28 -03 13.2 16.8	-1.03 + 3.0	1.4/21.0	40345
2000 CE ₉₄	2000 03 20.0	11 59.30 +06 43.7 17.4	-0.70 +12.0	2.4/17.5	40458
(14298)	2000 03 20.1	11 59.28 -00 14.4 17.4	-0.95 + 4.1	0.1/20.2	39135

1996 AQ ₇	2000 03 20.1	11 59.32 +01 05.6 17.8	-0.95 + 4.6	0.4/19.8	40311	(13593)	2000 03 20.7	12 01.48 +14 55.6 16.8	-1.01 + 7.1	5.8/15.6	38341
1991 RJ ₄₁	2000 03 20.1	11 59.37 +03 23.4 17.8	-1.06 + 3.7	1.2/19.2	40298	2000 EF ₃₇	2000 03 20.7	12 01.50 -00 53.2 17.1	-0.84 +11.0	0.3/21.0	40477
2000 EE ₅₈	2000 03 20.1	11 59.37 -02 43.1 17.5	-0.90 + 6.2	1.2/21.0	40158	1996 BM ₄	2000 03 20.7	12 01.55 +03 09.6 18.3	-1.04 + 4.0	1.2/19.8	39964
2000 CJ ₉₄	2000 03 20.1	11 59.44 +01 02.7 17.1	-0.76 + 4.4	0.3/19.8	40458	2000 EY ₆₀	2000 03 20.7	12 01.62 -02 21.9 17.8	-0.88 + 1.1	0.6/21.4	40160
1997 KJ ₂	2000 03 20.1	11 59.45 +09 53.3 18.9	-0.94 + 6.1	3.3/17.0	35700	(13487)	2000 03 20.7	12 01.64 +19 03.0 16.6	-1.03 + 1.3	6.5/15.2	38312
(13113)	2000 03 20.1	11 59.48 -00 40.4 17.5	-0.78 + 8.1	0.2/20.4	37517	2000 EE ₃₇	2000 03 20.7	12 01.68 -00 40.8 17.6	-0.85 + 4.6	0.2/20.9	40138
1998 RP ₃₉	2000 03 20.1	11 59.53 +04 26.1 18.4	-1.07 + 4.7	1.7/18.9	39993	1997 SB ₄	2000 03 20.7	12 01.71 +00 22.1 21.1	-0.82 + 5.6	0.2/20.6	35701
1994 VH ₂	2000 03 20.1	11 59.60 +23 30.0 17.3	-1.06 + 0.9	8.5/13.2	40307	(14611)	2000 03 20.7	12 01.73 +00 40.7 18.3	-0.85 + 7.1	0.3/20.5	39880
1998 ST ₁₆₃	2000 03 20.1	11 59.64 +08 29.0 20.8	-0.92 + 4.2	2.5/17.6	35720	(14343)	2000 03 20.7	12 01.81 +04 47.5 16.2	-0.93 + 9.3	1.9/19.1	39801
2000 AP ₁₆₄	2000 03 20.2	11 59.60 -15 47.6 15.8	-0.98 + 1.4	6.0/24.8	40441	2000 CG ₉₄	2000 03 20.7	12 01.83 +04 12.8 17.6	-0.77 +10.1	1.4/19.2	40458
1998 VQ ₁₃	2000 03 20.2	11 59.61 -02 21.2 18.8	-0.88 + 5.3	0.8/21.0	39545	2000 FD ₅₀	2000 03 20.8	12 01.82 -22 17.0 17.3	-0.86 + 4.9	8.2/28.6	40255
1993 UF ₁	2000 03 20.2	11 59.64 +29 35.4 16.8	-1.60 - 2.6	12.9/13.0	39954	2000 EG ₉₂	2000 03 20.8	12 02.02 -04 12.3 16.4	-0.80 + 9.9	1.3/22.3	40175
(14302)	2000 03 20.2	11 59.66 -08 53.2 17.4	-1.03 + 4.3	3.2/22.8	39137	1998 WH ₄	2000 03 20.8	12 02.03 +06 53.4 16.7	-0.86 + 5.0	2.4/18.6	40347
2000 EF ₆₀	2000 03 20.2	11 59.78 -00 47.4 19.2	-0.78 + 4.8	0.3/20.5	40160	(14416)	2000 03 20.8	12 02.04 +00 11.0 18.7	-0.92 + 8.6	0.1/20.7	39824
1988 XW ₄	2000 03 20.2	11 59.81 -00 54.7 17.4	-0.78 + 5.6	0.3/20.6	40293	1998 US ₂₀	2000 03 20.8	12 02.11 -00 40.3 17.5	-0.89 + 6.6	0.2/21.0	40344
2000 ED ₉₂	2000 03 20.2	11 59.87 -04 35.4 17.1	-0.72 + 5.4	1.3/21.8	40174	2000 EL ₆₂	2000 03 20.8	12 02.13 +02 26.9 17.7	-0.63 + 6.3	0.7/19.9	40162
2000 AL ₉₈	2000 03 20.2	11 59.96 +15 57.5 16.6	-0.89 + 7.0	6.3/14.8	40435	2000 FQ ₃₁	2000 03 20.8	12 02.20 +18 07.4 17.5	-1.09 + 3.6	6.4/15.1	40238
1998 UP ₂₀	2000 03 20.2	12 00.03 +12 14.8 16.2	-1.02 + 3.0	5.3/16.6	40028	2000 EQ ₃₆	2000 03 20.8	12 02.23 +02 02.4 17.1	-0.82 + 9.5	0.8/20.1	40477
1998 TO ₅	2000 03 20.3	11 59.97 -09 21.8 17.6	-0.81 + 8.6	3.0/23.7	40342	(14415)	2000 03 20.9	12 02.16 -13 05.4 17.7	-0.83 + 3.5	3.6/24.9	39823
1998 WD ₄	2000 03 20.3	12 00.24 +00 57.3 18.8	-0.91 + 6.7	0.3/20.0	40347	1998 WG ₂	2000 03 20.9	12 02.21 +01 31.0 17.7	-0.73 + 5.4	0.6/20.3	40347
(9814)	2000 03 20.3	12 00.25 -04 52.7 19.2	-0.94 + 7.0	1.6/21.9	33214	2000 EG ₆₁	2000 03 20.9	12 02.32 -03 04.9 18.0	-0.93 + 6.3	1.2/21.8	40161
2000 ED ₂₉	2000 03 20.3	12 00.25 +21 24.0 17.6	-0.76 + 5.9	6.3/12.3	40475	1993 QM ₄	2000 03 20.9	12 02.44 +00 21.1 17.5	-0.87 + 4.9	0.2/20.8	40303
2000 EY ₄₉	2000 03 20.3	12 00.34 +03 00.6 17.6	-0.86 + 4.6	1.1/19.4	40154	2000 EL ₆₁	2000 03 20.9	12 02.54 -03 14.1 17.5	-0.99 + 6.9	1.1/21.9	40161
1998 SD ₄₆	2000 03 20.4	12 00.37 +00 06.1 17.9	-0.94 + 5.2	0.1/20.4	40337	(10046)	2000 03 20.9	12 02.59 +15 04.2 16.5	-0.99 + 7.7	5.9/15.6	33869
2000 EV ₃₇	2000 03 20.4	12 00.42 +01 00.3 18.1	-0.65 + 5.8	0.2/20.1	40139	2000 EG ₃₇	2000 03 21.0	12 02.56 -02 19.1 17.2	-0.77 + 3.7	0.6/21.7	40139
2000 AX ₁₃₇	2000 03 20.4	12 00.42 +08 15.1 16.7	-0.78 + 4.0	3.0/17.7	40439	1998 VQ ₂₅	2000 03 21.0	12 02.72 +07 18.0 16.5	-0.99 + 5.0	3.2/18.7	40346
2000 EA ₆₁	2000 03 20.4	12 00.54 -02 55.9 17.3	-1.12 0.0	1.1/21.2	40161	2000 EX ₉₄	2000 03 21.0	12 02.74 -10 53.3 15.7	-1.05 + 0.5	4.1/23.8	40486
2000 EV ₁₇₁	2000 03 20.4	12 00.56 +19 55.7 18.0	-0.82 + 4.5	5.8/13.6	40216	1998 SV ₁₀₅	2000 03 21.0	12 02.88 +03 57.9 16.4	-0.91 + 6.1	1.7/19.7	40339
2000 AF ₁₃₇	2000 03 20.4	12 00.57 +16 13.7 15.7	-0.65 +13.5	6.6/13.6	40438	1993 TU ₂₅	2000 03 21.0	12 02.95 +07 21.1 17.2	-0.88 + 4.0	2.6/18.7	39953
1998 SB ₁₃₄	2000 03 20.4	12 00.62 -02 23.6 17.7	-0.90 + 8.8	0.9/21.3	40341	1998 RM ₆₅	2000 03 21.0	12 02.96 -00 31.0 19.5	-0.87 + 6.2	0.1/21.2	35715
1998 RP ₄₆	2000 03 20.4	12 00.71 -04 12.7 19.9	-0.94 + 6.9	1.4/21.8	34021	1991 FW ₃	2000 03 21.1	12 02.90 +00 53.0 16.8	-0.78 + 7.1	0.4/20.7	40296
1981 EL ₉	2000 03 20.5	12 00.72 -10 03.7 19.2	-0.79 + 1.9	2.5/23.6	26916	(14504)	2000 03 21.1	12 02.98 +07 04.5 17.9	-0.93 + 7.2	2.7/18.7	39848
1998 SD ₃₆	2000 03 20.5	12 00.72 +07 01.3 17.6	-1.06 + 3.2	3.1/18.5	40004	(14726)	2000 03 21.1	12 03.04 +12 09.7 16.9	-0.74 + 5.6	3.6/16.8	39912
1998 WC ₈	2000 03 20.5	12 00.75 +12 56.1 17.9	-0.83 + 5.7	3.7/16.2	40347	2000 EL ₃₇	2000 03 21.1	12 03.04 -03 49.5 16.8	-0.91 + 4.7	1.5/22.2	40139
1998 TH ₁₆	2000 03 20.5	12 00.77 +09 21.9 17.3	-0.96 + 6.3	3.5/17.5	40343	1998 SJ ₄	2000 03 21.1	12 03.05 +01 08.0 18.8	-0.96 + 5.6	0.5/20.7	40336
2000 EO ₃₆	2000 03 20.5	12 00.77 +02 47.0 16.3	-0.97 + 4.8	1.2/19.6	40477	2000 EH ₉₂	2000 03 21.1	12 03.05 -04 09.6 17.9	-0.71 + 7.2	1.1/22.5	40175
1998 UE ₄	2000 03 20.5	12 00.79 +12 27.5 18.3	-0.91 + 7.4	3.9/16.2	40343	1998 RZ ₅₄	2000 03 21.1	12 03.06 -07 50.8 18.0	-1.05 + 5.6	2.9/23.4	40334
2000 EM ₆₂	2000 03 20.5	12 00.81 +02 07.5 17.7	-0.81 + 4.5	0.7/19.8	40482	(14383)	2000 03 21.1	12 03.09 -06 43.1 17.2	-0.99 + 4.3	2.2/23.0	39814
1994 WT ₃	2000 03 20.5	12 00.84 -09 03.1 19.5	-0.87 + 6.4	2.6/23.5	36071	1998 RJ ₃	2000 03 21.1	12 03.12 -10 41.7 18.9	-1.57 - 3.8	5.0/23.0	32989
1998 SS ₁₃₂	2000 03 20.5	12 00.87 -01 41.1 17.4	-1.03 + 3.0	0.6/21.0	40341	2000 FV ₁₂	2000 03 21.1	12 03.15 +21 19.7 16.9	-1.01 + 1.2	8.2/14.5	40498
2000 AM ₁₈₅	2000 03 20.5	12 00.91 -13 36.4 16.7	-0.79 + 3.9	4.4/24.9	40441	2000 EF ₂₉	2000 03 21.1	12 03.21 +21 47.1 17.4	-0.79 + 6.6	6.7/12.7	40475
1998 RA ₄₇	2000 03 20.5	12 00.95 -07 00.2 17.9	-0.89 +10.0	2.9/23.0	40334	2000 EY ₁₃₇	2000 03 21.1	12 03.24 +37 53.8 17.9	-1.04 + 4.8	12.1/05.7	40204
(14592)	2000 03 20.5	12 00.96 -04 26.6 17.8	-0.88 + 8.1	1.5/22.0	39873	1990 UC ₂	2000 03 21.2	12 03.30 +15 03.6 18.0	-0.93 + 5.2	4.9/16.2	40295
2000 EP ₉₂	2000 03 20.5	12 00.98 -07 08.9 17.2	-1.10 + 2.4	3.0/22.5	40176	2000 EH ₆₁	2000 03 21.2	12 03.32 -03 08.3 17.7	-0.81 + 6.6	1.0/22.2	40161
2000 EP ₃₆	2000 03 20.6	12 01.06 +02 08.3 16.3	-0.76 + 4.6	0.7/19.9	40138	1998 RR ₇₄	2000 03 21.2	12 03.33 -03 04.8 18.3	-1.05 + 3.7	1.0/22.0	40335
1998 SK ₅₀	2000 03 20.6	12 01.25 +05 12.5 19.0	-0.92 + 4.9	1.7/19.0	34023	1993 TS ₁₅	2000 03 21.2	12 03.38 +01 20.1 18.8	-0.80 + 5.8	0.5/20.7	40304
2000 EK ₆₀	2000 03 20.6	12 01.26 -00 43.9 18.7	-0.85 + 4.7	0.2/20.8	40160	2000 EU ₆₂	2000 03 21.2	12 03.53 +01 02.5 18.4	-0.92 + 4.3	0.6/20.8	40162
2000 BY ₃	2000 03 20.6	12 01.34 +24 05.7 16.9	-0.96 + 2.4	9.9/12.7	40445	1997 TB ₂₆	2000 03 21.3	12 03.66 +02 43.8 18.6	-0.70 + 5.7	0.8/20.2	39530
(14439)	2000 03 20.6	12 01.38 -00 34.7 17.4	-0.79 + 4.8	0.1/20.8	39830	2000 EO ₉₂	2000 03 21.3	12 03.67 -06 44.6 17.7	-0.79 + 8.6	1.8/23.6	40175
1985 QD ₆	2000 03 20.6	12 01.47 +06 36.5 19.5	-0.84 + 6.1	1.9/18.4	40292	1981 EV ₃	2000 03 21.3	12 03.72 -09 45.8 18.9	-0.91 + 6.2	3.3/24.4	34573
(10069)	2000 03 20.7	12 01.47 -14 04.3 16.5	-0.77 + 5.0	4.1/25.4	38016	(14647)	2000 03 21.3	12 03.74 +16 27.6 17.2	-0.81 + 3.7	4.6/15.7	39890

2000 EA ₈	2000 03 21.3	12 03.82 +16 19.2 16.7	-0.99 + 6.2	5.9/15.7	40128
(13670)	2000 03 21.3	12 03.88 +07 22.6 16.7	-0.97 + 5.8	3.5/18.9	38363
(14287)	2000 03 21.3	12 03.98 +01 36.0 16.5	-0.90 + 7.6	0.8/20.7	39133
(9832)	2000 03 21.3	12 04.00 -12 15.6 18.8	-0.92 + 5.8	3.9/25.2	33453
2000 EP ₉₄	2000 03 21.4	12 03.98 -07 21.6 17.5	-0.96 + 7.1	2.6/23.6	40178
3178 T-3	2000 03 21.4	12 04.08 +00 31.3 19.0	-0.77 + 4.9	0.3/21.1	39649
2000 EH ₁₅₄	2000 03 21.4	12 04.09 +14 18.2 18.1	-1.10 - 0.8	6.7/17.5	40212
2000 DE ₃	2000 03 21.4	12 04.13 +12 58.6 16.4	-1.04 + 1.6	6.2/17.5	40460
2000 FK ₃	2000 03 21.4	12 04.15 +16 51.1 17.5	-0.82 + 3.7	5.1/15.7	40218
2000 FS ₃₁	2000 03 21.4	12 04.16 +16 56.4 17.0	-1.01 + 0.5	7.1/16.6	40238
2000 EY ₉₄	2000 03 21.4	12 04.16 -09 35.2 17.4	-0.91 + 5.2	4.1/24.3	40178
(14761)	2000 03 21.4	12 04.34 +01 42.3 19.4	-0.96 + 4.2	0.7/20.8	39921
2000 EL ₁₃₃	2000 03 21.5	12 04.39 -00 41.2 19.1	-0.80 + 4.5	0.1/21.6	40198
1998 SQ ₁₀₉	2000 03 21.5	12 04.41 -09 25.0 18.1	-0.89 + 6.6	3.0/24.5	34023
(13915)	2000 03 21.5	12 04.42 +16 49.6 16.4	-0.88 + 4.5	5.7/15.6	39027
1998 WP ₁	2000 03 21.5	12 04.49 +16 56.9 17.6	-0.79 + 4.6	5.1/15.6	40041
2000 EF ₃₈	2000 03 21.5	12 04.50 -03 07.5 18.1	-0.94 + 5.5	1.0/22.4	40477
1998 QL ₆	2000 03 21.5	12 04.58 -01 40.0 19.1	-0.84 + 6.6	0.4/21.9	35709
3175 T-3	2000 03 21.5	12 04.62 +00 55.7 18.6	-0.79 + 4.5	0.4/21.1	40534
1997 SQ ₉	2000 03 21.5	12 04.70 -02 19.4 18.4	-0.88 + 1.5	0.6/22.1	40319
2000 ER ₄₉	2000 03 21.5	12 04.70 +11 36.7 18.0	-0.99 + 5.1	4.0/17.8	40153
(14591)	2000 03 21.5	12 04.77 +00 49.7 17.8	-0.98 + 5.2	0.5/21.2	39873
(14585)	2000 03 21.6	12 04.71 -01 04.3 18.1	-0.92 + 7.1	0.2/21.8	39871
2000 EY ₁₃₃	2000 03 21.6	12 04.73 +02 50.0 18.0	-0.84 + 2.8	1.0/20.6	40199
1998 VX ₂₆	2000 03 21.6	12 04.75 -05 20.7 18.3	-0.88 + 4.5	1.6/23.1	40039
1997 RR ₉	2000 03 21.6	12 04.92 +01 57.2 18.4	-0.78 + 6.8	0.7/20.8	40319
(14105)	2000 03 21.6	12 04.97 -07 05.8 17.3	-0.72 + 6.7	1.8/24.0	39081
2000 EE ₉₃	2000 03 21.6	12 05.02 +18 10.2 16.8	-0.69 + 6.9	5.3/14.6	40176
2000 BQ ₁₄	2000 03 21.6	12 05.02 +31 07.8 16.2	-0.87 + 0.7	12.0/10.9	40446
1998 QD ₄₈	2000 03 21.6	12 05.09 -05 20.8 18.8	-0.96 + 7.4	1.7/23.3	40331
2000 FJ ₁₃	2000 03 21.6	12 05.09 +08 48.2 18.1	-0.78 + 8.0	3.0/18.3	40223
2127 T-2	2000 03 21.6	12 05.10 -02 39.5 18.0	-0.90 + 5.1	0.8/22.4	40533
2000 EU ₅₆	2000 03 21.7	12 05.11 +02 10.0 17.1	-0.88 + 3.8	0.9/20.9	40157
2000 EN ₉₂	2000 03 21.7	12 05.11 -05 54.2 18.1	-0.98 + 6.2	2.2/23.4	40175
2000 CN ₉₄	2000 03 21.7	12 05.13 +00 49.6 17.3	-0.91 + 2.4	0.5/21.3	40458
1991 UP ₃	2000 03 21.7	12 05.33 +05 04.3 18.8	-0.96 + 6.0	2.0/20.0	40298
3403 T-3	2000 03 21.7	12 05.39 +07 35.5 18.0	-0.98 + 3.0	2.6/19.4	40284
1991 FQ ₂	2000 03 21.7	12 05.44 -00 38.9 17.1	-0.90 + 3.4	0.0/21.8	40296
(14577)	2000 03 21.7	12 05.45 -08 50.3 17.2	-0.79 + 9.3	2.5/24.8	39869
1998 QQ ₉₃	2000 03 21.7	12 05.50 +18 18.1 17.2	-0.96 + 3.0	6.0/15.9	39991
(14638)	2000 03 21.8	12 05.54 -01 03.8 17.8	-0.74 + 5.2	0.1/22.0	39887
1997 VO	2000 03 21.8	12 05.59 +02 52.7 17.3	-0.76 + 4.7	1.1/20.7	39984
(13937)	2000 03 21.8	12 05.62 +28 21.3 18.3	-0.87 + 9.9	8.0/10.0	39034
(14783)	2000 03 21.8	12 05.64 +02 55.2 17.3	-0.80 + 4.7	1.1/20.7	39928
2000 FJ ₃	2000 03 21.8	12 05.65 +23 24.5 16.9	-0.88 + 7.0	8.3/12.7	40218
2000 DF ₃	2000 03 21.8	12 05.73 +18 07.5 16.6	-0.91 + 8.6	7.8/14.8	40460
3229 T-3	2000 03 21.8	12 05.73 +02 26.8 19.9	-0.88 + 5.2	0.9/20.9	34618
1998 XN ₅₇	2000 03 21.8	12 05.85 +02 03.0 18.3	-0.82 + 5.9	0.8/21.0	40350
2000 ET ₃₆	2000 03 21.9	12 05.81 +02 02.0 16.5	-0.87 + 8.0	1.2/21.0	40477
2000 EY ₆₇	2000 03 21.9	12 05.87 -01 48.2 17.7	-0.99 + 3.6	0.4/22.3	40164
1998 WZ ₁₃	2000 03 21.9	12 05.89 -10 14.3 18.4	-0.92 + 6.4	3.3/25.1	35726

(14198)	2000 03 21.9	12 05.94 -02 26.7 16.9	-0.87 + 3.8	0.5/22.5	39108
(14623)	2000 03 21.9	12 06.02 +13 00.1 18.0	-0.98 + 5.2	5.0/17.6	39883
2271 T-3	2000 03 21.9	12 06.06 -02 20.1 17.6	-0.77 + 5.1	0.5/22.5	40534
1998 WV ₁₀	2000 03 21.9	12 06.07 -02 40.6 17.3	-0.92 + 6.5	0.8/22.6	40348
2000 EP ₁₉	2000 03 21.9	12 06.09 +13 30.3 17.4	-0.94 + 7.0	5.5/17.2	40474
1994 RN ₁₂	2000 03 21.9	12 06.11 +02 49.2 17.1	-0.94 + 8.0	1.2/20.8	40306
2000 DO ₁₁	2000 03 21.9	12 06.14 -00 17.2 18.7	-0.98 + 6.2	0.2/21.9	39441
1994 PC ₃₀	2000 03 21.9	12 06.18 -04 47.5 20.0	-0.89 + 7.5	1.4/23.4	33243
1979 MF ₃	2000 03 21.9	12 06.19 -01 40.2 18.7	-0.83 + 6.2	0.3/22.3	39931
1981 EP ₉	2000 03 21.9	12 06.22 -07 43.1 18.6	-0.89 + 6.8	2.4/24.3	40290
2000 CP ₉₄	2000 03 21.9	12 06.24 -02 19.2 17.1	-1.11 - 0.6	0.7/22.4	40458
1996 QT ₁	2000 03 22.0	12 06.28 +03 41.1 17.5	-0.69 + 6.7	1.2/20.5	40313
1998 SV ₁₄₇	2000 03 22.0	12 06.32 +11 11.2 17.3	-1.04 + 0.4	4.5/18.9	40342
2000 EY ₃₇	2000 03 22.0	12 06.36 +00 08.0 17.6	-0.91 + 4.2	0.3/21.8	40140
(14777)	2000 03 22.0	12 06.39 -01 16.4 18.3	-0.91 + 7.6	0.2/22.2	39926
1996 HE ₂₅	2000 03 22.0	12 06.43 -01 02.9 17.2	-0.82 + 7.1	0.1/22.2	40312
1997 WJ ₅	2000 03 22.0	12 06.52 +00 41.3 17.8	-0.75 + 5.4	0.4/21.6	39984
1993 RP ₇	2000 03 22.0	12 06.54 -02 29.7 17.3	-0.79 + 7.7	0.6/22.7	39951
1998 WR ₂₂	2000 03 22.1	12 06.62 -01 09.0 18.9	-0.80 + 5.8	0.1/22.3	40046
1997 LL ₂	2000 03 22.1	12 06.64 -05 15.7 18.3	-0.92 + 7.9	1.6/23.6	40318
(14513)	2000 03 22.1	12 06.66 -01 22.8 16.9	-0.81 + 6.9	0.2/22.4	39851
2000 FR ₁₆	2000 03 22.1	12 06.75 +15 26.6 18.0	-0.96 + 2.6	4.9/17.3	40225
1998 SN ₁₃	2000 03 22.1	12 06.75 +07 54.3 17.9	-0.97 + 6.8	3.3/19.4	40336
1998 AX ₈	2000 03 22.1	12 06.79 -03 44.7 19.8	-0.71 + 4.6	0.7/23.2	34215
2000 DG ₃	2000 03 22.1	12 06.83 +17 55.1 16.8	-0.85 + 7.3	5.5/15.4	40460
1998 XE ₁₈	2000 03 22.1	12 06.89 +11 37.1 17.9	-0.96 + 4.5	4.9/18.3	40349
2000 EU ₁₅₇	2000 03 22.2	12 06.92 -08 16.5 17.1	-0.81 + 6.8	2.8/24.8	40214
1998 SX ₁₃₆	2000 03 22.2	12 06.97 +06 51.6 17.8	-0.93 + 7.4	2.8/19.7	40016
1998 WR	2000 03 22.2	12 06.97 +19 36.5 16.9	-0.92 + 3.3	6.0/15.7	40041
1994 VA ₂	2000 03 22.2	12 07.00 +21 55.8 17.6	-0.97 + 3.5	7.3/15.0	40307
(14318)	2000 03 22.2	12 07.08 -03 08.8 16.8	-1.09 + 4.8	0.9/22.9	39794
2000 ET ₃₇	2000 03 22.2	12 07.12 +01 13.5 16.9	-0.66 +11.2	0.7/21.5	40477
(12814)	2000 03 22.2	12 07.14 -03 17.5 17.5	-0.90 + 8.5	0.9/23.1	37067
(14747)	2000 03 22.2	12 07.20 +00 01.1 18.6	-0.91 + 5.7	0.3/22.0	39918
2000 CH ₉₃	2000 03 22.2	12 07.22 +13 04.6 17.3	-0.72 +12.6	4.9/16.7	40457
(14023)	2000 03 22.3	12 07.30 -11 47.6 16.8	-1.00 + 4.1	4.6/25.6	39057
1998 VK ₃₁	2000 03 22.3	12 07.34 -14 23.8 16.9	-0.88 + 6.5	5.1/26.9	40039
1989 SK ₁₀	2000 03 22.3	12 07.41 -01 47.4 18.9	-0.85 + 5.5	0.3/22.7	40294
2000 FE ₁₇	2000 03 22.3	12 07.48 +13 09.5 18.0	-0.94 + 3.0	5.0/18.1	40225
1998 UW ₅	2000 03 22.3	12 07.53 +07 02.4 18.0	-0.86 + 5.8	3.2/19.8	40343
(14451)	2000 03 22.3	12 07.57 -14 52.9 17.4	-0.74 + 4.7	3.7/27.2	39834
1998 RQ ₂	2000 03 22.3	12 07.58 +02 39.1 17.4	-1.12 + 3.6	1.5/21.4	40333
1275 T-1	2000 03 22.4	12 07.73 -02 44.6 17.3	-1.12 + 3.4	0.9/23.0	40277
1995 FU ₂	2000 03 22.4	12 07.77 +03 55.2 20.2	-0.78 + 5.5	1.4/20.8	25442
(13692)	2000 03 22.4	12 07.77 +02 17.9 16.8	-0.79 +10.6	1.2/21.3	38369
(13492)	2000 03 22.4	12 07.83 +10 38.7 17.1	-0.98 + 5.0	4.3/18.9	38314
1998 SH ₇₃	2000 03 22.4	12 07.83 +03 07.4 18.8	-0.93 + 6.0	1.3/21.2	34304
2000 EU ₁₉	2000 03 22.4	12 07.84 +12 15.5 18.1	-0.87 + 3.7	3.9/18.3	40474
(14347)	2000 03 22.4	12 07.84 +02 37.2 17.5	-1.05 + 5.6	1.3/21.4	39803
2000 ET ₆₁	2000 03 22.4	12 07.97 -02 11.5 18.4	-0.78 + 5.2	0.4/22.9	40161
(14759)	2000 03 22.4	12 08.02 +01 01.3 18.0	-0.93 + 8.2	0.7/21.9	39921

2000 EG ₁₅₆	2000 03 22.4	12 08.04 -10 02.0 16.2	-0.97 + 5.9	4.0/25.4	40213
2666 T-3	2000 03 22.5	12 07.98 -01 34.0 18.1	-0.99 + 5.4	0.3/22.7	40284
(14206)	2000 03 22.5	12 07.99 +10 00.4 18.0	-0.69 + 5.1	2.6/18.7	39110
1994 PO ₃₇	2000 03 22.5	12 08.05 -01 46.7 20.3	-0.92 + 6.5	0.3/22.8	29138
2000 EH ₆₂	2000 03 22.5	12 08.06 +00 38.1 18.4	-0.83 + 6.4	0.5/22.0	40162
1995 YK ₁₁	2000 03 22.5	12 08.07 -00 30.9 18.3	-0.88 + 7.2	0.2/22.4	39963
1998 XA ₃	2000 03 22.5	12 08.15 +04 53.5 18.3	-0.86 + 6.1	1.7/20.6	40349
2000 EZ ₉₄	2000 03 22.5	12 08.18 -10 13.6 16.9	-0.93 + 6.2	4.3/25.6	40178
1998 RW ₇₆	2000 03 22.5	12 08.26 +06 56.0 17.6	-1.07 + 4.7	3.3/20.2	39999
2000 EP ₃₅	2000 03 22.5	12 08.35 +12 01.2 18.0	-0.83 + 3.0	3.7/18.4	40137
2000 ES ₃₇	2000 03 22.5	12 08.36 -01 55.4 17.9	-0.79 + 5.5	0.3/22.9	40139
2000 EB ₉₃	2000 03 22.5	12 08.41 -03 47.2 18.0	-0.71 + 7.6	0.8/23.6	40176
2000 EN ₆₃	2000 03 22.6	12 08.41 +01 46.1 18.5	-0.85 + 4.3	0.8/21.8	40162
1998 TL ₂	2000 03 22.6	12 08.49 -00 45.9 18.4	-1.01 + 5.0	0.1/22.6	40342
1995 WU ₇	2000 03 22.6	12 08.50 +06 19.6 17.2	-0.99 + 5.3	3.0/20.4	40310
1993 SD ₁₁	2000 03 22.6	12 08.55 -01 59.6 17.9	-0.86 + 4.5	0.3/23.0	39952
2000 CM ₉₄	2000 03 22.6	12 08.68 +05 14.1 16.1	-0.74 +11.4	2.4/20.3	40458
1998 TO ₃₀	2000 03 22.6	12 08.74 -03 36.9 18.1	-0.84 + 6.8	0.9/23.6	40343
2000 EZ ₁₅₀	2000 03 22.6	12 08.74 -03 50.3 17.8	-0.93 + 6.5	1.1/23.6	40211
2000 FD ₁₇	2000 03 22.6	12 08.74 +07 27.3 17.6	-0.69 + 6.3	2.1/19.7	40225
(14618)	2000 03 22.6	12 08.79 +19 52.9 17.1	-1.04 + 1.3	7.2/16.6	39882
(14417)	2000 03 22.6	12 08.80 -08 45.0 18.1	-1.03 + 6.1	2.9/25.1	39824
1998 SM ₄₁	2000 03 22.7	12 08.74 -02 02.5 16.6	-1.10 + 1.1	10.4/12.0	40337
2000 ER ₉₂	2000 03 22.7	12 08.76 -08 03.2 16.7	-1.12 + 2.8	3.2/24.6	40176
2000 EN ₃₈	2000 03 22.7	12 08.78 -02 15.0 17.7	-0.89 + 3.3	0.4/23.0	40140
1998 UC ₃₁	2000 03 22.7	12 08.80 +00 10.6 17.5	-0.92 + 3.0	0.4/22.4	40345
2000 EX ₆₁	2000 03 22.7	12 08.84 -01 59.2 18.2	-0.96 + 7.1	10.2/03.0	40162
1988 RE ₁₁	2000 03 22.7	12 09.05 -03 22.5 18.2	-0.89 + 3.6	0.7/23.5	39937
1993 TW ₃₂	2000 03 22.7	12 09.10 +02 18.7 18.8	-0.80 + 6.1	1.0/21.7	39953
2000 FK ₁₃	2000 03 22.7	12 09.12 +21 21.8 16.4	-0.72 + 6.0	6.4/14.3	40223
1987 WF ₁	2000 03 22.8	12 09.11 -27 19.6 18.2	-0.93 + 8.0	7.6/01.5	40292
2000 ES ₆₄	2000 03 22.8	12 09.14 -02 21.7 17.4	-0.83 + 7.4	0.5/23.3	40163
1994 WH ₁	2000 03 22.8	12 09.19 -22 43.9 16.0	-0.85 + 6.2	8.5/30.6	40307
1996 JR ₃	2000 03 22.8	12 09.20 +08 27.5 17.8	-0.86 + 4.9	3.2/19.8	39970
1132 T-1	2000 03 22.8	12 09.26 -03 12.7 16.7	-0.87 + 6.3	1.0/23.6	40532
2000 CK ₉₃	2000 03 22.8	12 09.26 +09 59.6 16.8	-0.77 + 8.0	3.8/18.8	40457
2000 DC ₉₂	2000 03 22.8	12 09.32 -00 19.0 17.7	-0.72 + 6.8	0.2/22.6	40469
1998 RF ₈₀	2000 03 22.8	12 09.33 +08 03.5 19.4	-0.97 + 4.8	3.1/20.1	34022
2000 AA ₁₃₈	2000 03 22.8	12 09.35 +12 10.8 16.6	-0.76 + 7.5	5.0/18.0	40439
(14648)	2000 03 22.8	12 09.38 +10 36.8 16.4	-0.87 + 1.9	3.7/19.3	39890
(14348)	2000 03 22.8	12 09.38 +21 59.9 16.8	-1.15 - 0.7	7.8/16.6	39803
(14727)	2000 03 22.8	12 09.48 +00 08.4 18.2	-0.92 + 8.0	0.5/22.5	39912
2000 DD ₇	2000 03 22.8	12 09.48 +14 54.1 16.3	-1.01 + 4.2	6.5/17.9	40460
1998 SE ₁₄₄	2000 03 22.8	12 09.50 +05 12.2 16.5	-0.94 + 2.8	2.1/21.1	40341
2000 ER ₆₄	2000 03 22.9	12 09.48 -03 12.0 18.2	-0.79 + 7.9	0.9/23.7	40163
2000 EO ₁₁₀	2000 03 22.9	12 09.48 +05 07.0 17.6	-0.83 + 2.8	2.0/21.0	40188
(14760)	2000 03 22.9	12 09.51 -00 26.3 17.3	-0.92 + 6.7	9.9/03.0	39921
(14202)	2000 03 22.9	12 09.66 -10 55.7 17.9	-0.87 + 4.9	2.9/26.1	39109
(14344)	2000 03 22.9	12 09.68 -04 07.0 17.8	-0.95 + 5.8	1.2/23.9	39802
1998 SS ₃₀	2000 03 22.9	12 09.80 +01 03.2 17.5	-0.91 + 5.3	0.9/22.3	40003
2000 FC ₄₃	2000 03 23.0	12 09.83 +03 58.3 17.3	-0.98 + 7.4	2.1/21.4	40250

1998 XM ₇₇	2000 03 23.0	12 09.92 +01 38.6 17.7	-0.83 + 7.0	0.9/22.1	40350
1997 SN ₂₅	2000 03 23.0	12 09.94 -02 13.1 17.5	-0.78 + 4.9	0.3/23.4	40319
2000 EO ₆₃	2000 03 23.0	12 10.04 +01 54.8 17.8	-0.78 + 7.0	1.1/22.0	40162
(14595)	2000 03 23.0	12 10.07 -00 39.6 17.5	-0.98 + 4.0	0.2/22.9	39874
1998 QS ₉₁	2000 03 23.0	12 10.08 -00 15.9 18.2	-1.02 + 3.9	0.3/22.8	40332
(10215)	2000 03 23.0	12 10.17 -00 11.4 19.5	-0.75 + 4.8	0.2/22.8	33910
1998 TF ₁₈	2000 03 23.0	12 10.18 -03 51.0 18.0	-0.86 + 7.1	0.9/24.0	40022
1998 QK ₅₅	2000 03 23.0	12 10.23 -02 11.2 19.5	-0.91 + 7.5	0.4/23.5	33348
9097 P-L	2000 03 23.1	12 10.18 -01 58.4 16.4	-0.98 + 1.7	0.4/23.3	40532
2000 EW ₁₄₄	2000 03 23.1	12 10.19 -04 28.3 17.8	-0.95 + 5.6	1.3/24.2	40206
(13960)	2000 03 23.1	12 10.22 +00 28.8 17.0	-0.94 + 2.1	0.6/22.7	39040
1996 GH ₂₀	2000 03 23.1	12 10.33 +02 54.8 19.1	-0.84 + 5.3	1.3/21.8	33694
1994 WJ ₁₂	2000 03 23.1	12 10.41 -15 42.6 17.6	-0.90 + 5.4	4.4/28.0	40307
1998 XX ₅₂	2000 03 23.1	12 10.43 +04 05.6 17.2	-0.78 + 5.1	1.5/21.4	40349
2000 EU ₃₈	2000 03 23.1	12 10.50 -03 08.5 18.0	-0.97 + 5.7	0.8/23.8	40141
1998 XR ₉₄	2000 03 23.1	12 10.52 -12 35.4 17.8	-0.71 + 5.7	3.1/27.2	40350
1997 UT ₂₂	2000 03 23.2	12 10.53 -03 54.6 18.3	-0.72 + 3.7	0.6/24.1	40320
2000 ER ₃₈	2000 03 23.2	12 10.64 -03 10.0 17.6	-0.75 + 4.8	0.6/23.9	40140
1997 MV ₁	2000 03 23.2	12 10.76 -03 40.1 21.7	-0.96 + 8.6	0.9/24.1	30788
(14622)	2000 03 23.2	12 10.76 +28 17.3 17.5	-0.72 + 7.8	8.0/11.4	39883
1993 RD ₂	2000 03 23.2	12 10.92 +02 08.5 16.5	-0.77 +10.2	1.0/22.1	40303
2000 ED ₃₈	2000 03 23.2	12 10.93 -00 47.4 17.4	-0.81 + 6.3	0.2/23.2	40477
2000 EV ₁₀₈	2000 03 23.2	12 10.96 -02 26.0 18.4	-0.79 + 4.8	0.4/23.7	40187
2000 FQ ₃	2000 03 23.3	12 10.95 +14 51.0 16.9	-0.73 + 8.7	5.3/17.2	40496
1979 MO ₇	2000 03 23.3	12 10.97 -07 47.6 19.5	-0.70 + 5.3	1.7/25.6	21561
2000 ES ₃₈	2000 03 23.3	12 11.06 -02 07.3 17.2	-0.80 + 6.6	0.3/23.7	40141
(14203)	2000 03 23.3	12 11.09 -14 04.6 17.3	-0.82 + 3.1	3.8/27.4	39109
1994 VL ₇	2000 03 23.3	12 11.12 -02 37.9 18.0	-0.92 + 6.2	0.4/23.8	40307
2000 FS ₃	2000 03 23.3	12 11.17 +16 03.6 17.4	-0.81 + 3.9	4.9/17.6	40218
1998 YX ₃	2000 03 23.3	12 11.27 +11 15.5 18.2	-0.80 + 6.2	3.7/19.1	40059
1998 RW ₆₄	2000 03 23.4	12 11.28 -02 24.9 18.0	-1.01 + 3.2	0.4/23.7	39997
(10410)	2000 03 23.4	12 11.32 +05 54.3 16.7	-0.78 + 3.5	2.0/21.1	38750
2000 DR ₁₁	2000 03 23.4	12 11.45 +00 09.1 18.5	-0.79 + 7.7	0.5/23.0	40461
(13389)	2000 03 23.4	12 11.49 -03 15.4 16.9	-0.76 + 4.5	0.6/24.1	37592
2000 AO ₁₆₄	2000 03 23.4	12 11.58 -11 02.1 16.4	-0.95 + 5.8	4.1/26.6	40441
(9763)	2000 03 23.4	12 11.59 -02 07.9 16.2	-0.94 + 7.9	0.3/23.8	33202
1998 SL ₃₅	2000 03 23.4	12 11.60 +01 31.6 18.4	-0.94 + 8.2	1.0/22.5	40337
1998 RZ ₆₀	2000 03 23.4	12 11.64 -05 52.8 19.8	-0.92 + 7.6	1.6/25.0	35715
(14196)	2000 03 23.4	12 11.64 +11 01.8 16.5	-0.98 + 7.9	4.6/19.3	39107
1988 RY ₁	2000 03 23.4	12 11.66 +02 44.6 19.4	-0.97 + 7.3	1.4/22.2	39513
6059 P-L	2000 03 23.4	12 11.69 -05 00.7 17.6	-0.79 + 6.1	1.2/24.8	40531
2000 FL ₁₃	2000 03 23.5	12 11.74 +21 40.0 16.6	-0.81 + 7.8	8.1/14.7	40223
2000 EY ₄₁	2000 03 23.5	12 11.74 -01 19.1 18.6	-0.73 + 4.5	0.0/23.5	40478
(10241)	2000 03 23.5	12 11.80 -00 01.3 18.3	-0.73 + 5.1	0.3/23.1	33916
1998 SZ ₂₅	2000 03 23.5	12 11.87 +02 59.7 16.2	-0.85 + 9.6	1.8/22.0	40337
2000 EQ ₁₁₀	2000 03 23.5	12 11.89 +06 33.5 17.3	-0.76 + 9.8	2.8/20.7	40188
(13918)	2000 03 23.5	12 11.91 -15 43.4 16.5	-0.97 + 3.0	4.8/27.8	39028
2000 CC ₇₆	2000 03 23.5	12 11.94 -07 39.0 15.6	-1.00 + 2.7	2.6/25.4	40454
1993 FF ₅₀	2000 03 23.5	12 11.95 -02 53.7 18.0	-1.01 + 5.6	0.6/24.1	40302
1999 VY ₁₅₃	2000 03 23.5	12 11.95 +14 55.3 15.8	-0.84 + 3.9	6.3/18.2	40400
1999 AM ₆	2000 03 23.5	12 12.00 -08 09.4 16.3	-1.00 + 4.2	2.6/25.6	40351

2000 EB ₃₈	2000 03 23.5	12 12.03 +01 50.3 17.7	-0.78 + 8.7	0.9/22.5	40140
1991 TE ₁₄	2000 03 23.5	12 12.03 +07 05.0 18.6	-0.91 + 0.6	2.1/21.2	39943
(9968)	2000 03 23.5	12 12.04 -11 59.3 16.2	-0.79 + 9.4	3.6/27.5	33663
1998 QE ₁₀₀	2000 03 23.5	12 12.04 +04 09.6 16.8	-0.96 + 5.5	2.0/21.9	40332
2000 EX ₃₈	2000 03 23.5	12 12.05 -04 17.4 16.3	-0.95 + 2.2	1.4/24.4	40477
2000 EE	2000 03 23.5	12 12.06 +22 12.1 16.7	-0.91 + 3.2	8.7/15.6	40472
1997 GC ₈	2000 03 23.5	12 12.07 +07 17.3 18.0	-1.07 + 3.8	3.1/21.1	40316
1997 TZ ₁₀	2000 03 23.6	12 12.12 -00 23.4 18.6	-0.77 + 8.6	0.4/23.3	40320
2000 EW ₁₁₀	2000 03 23.6	12 12.13 +09 26.5 18.1	-0.83 + 5.5	3.6/20.1	40189
1991 VG ₁	2000 03 23.6	12 12.17 +03 46.4 17.2	-1.04 + 4.3	1.9/22.2	40298
2000 EY ₃₈	2000 03 23.6	12 12.18 -03 48.8 16.6	-0.96 + 3.1	0.9/24.4	40141
2000 EY ₁₁₀	2000 03 23.6	12 12.22 +09 07.4 18.0	-0.99 + 5.6	3.7/20.3	40189
2000 ER ₁₁₀	2000 03 23.6	12 12.31 +05 26.8 17.4	-0.92 + 5.5	2.9/21.5	40188
1997 LA ₅	2000 03 23.6	12 12.36 +22 31.3 19.5	-0.87 + 6.2	7.2/15.0	39528
1993 OJ ₈	2000 03 23.6	12 12.38 -03 13.8 16.7	-0.92 + 6.4	0.7/24.3	40303
6346 P-L	2000 03 23.7	12 12.42 -05 09.1 16.9	-1.00 + 0.5	1.4/24.7	40276
2000 ER ₂₃	2000 03 23.7	12 12.44 -02 07.1 18.0	-0.81 + 7.1	0.3/24.0	40134
(14559)	2000 03 23.7	12 12.47 -15 09.6 18.4	-0.78 + 4.5	3.8/28.4	39863
2000 FK ₁₇	2000 03 23.7	12 12.50 +11 32.5 17.1	-0.90 + 8.4	5.3/19.2	40226
(14637)	2000 03 23.7	12 12.54 -05 53.7 17.5	-0.94 + 7.5	1.6/25.2	39887
1998 TV ₁₂	2000 03 23.7	12 12.64 -03 30.9 17.3	-0.86 + 6.8	0.9/24.5	40343
2000 ED	2000 03 23.7	12 12.65 +19 30.4 15.9	-0.88 + 4.8	9.1/16.4	40472
(13950)	2000 03 23.7	12 12.71 -10 35.1 16.4	-0.93 + 6.7	3.5/26.8	39037
2000 EL ₃₉	2000 03 23.8	12 12.73 +00 08.1 16.8	-1.02 + 2.9	0.6/23.4	40477
2000 EZ ₄₁	2000 03 23.8	12 12.79 -01 03.2 18.8	-0.71 + 4.6	0.1/23.7	40145
(10109)	2000 03 23.8	12 12.82 +22 06.8 16.8	-0.87 + 5.9	7.2/15.2	33883
1998 XV ₁₅	2000 03 23.8	12 12.86 -04 21.4 17.7	-0.99 + 3.5	1.2/24.7	40052
2000 FM ₃₃	2000 03 23.8	12 12.93 +19 51.0 16.5	-0.95 + 3.6	7.2/16.7	40240
1998 VO ₃₁	2000 03 23.8	12 12.98 -31 50.4 18.0	-0.90 + 1.5	8.2/03.1	34028
2000 FD ₄₃	2000 03 23.8	12 13.04 +05 47.8 17.4	-0.91 + 3.7	2.6/21.7	40251
2000 FQ ₁₀	2000 03 23.8	12 13.10 +19 29.1 17.0	-0.69 +11.7	8.3/15.0	40498
2000 EZ ₃₈	2000 03 23.8	12 13.12 -02 35.8 17.8	-0.94 + 6.9	0.5/24.3	40477
(13981)	2000 03 23.9	12 13.08 +10 54.8 17.3	-0.81 + 5.5	3.8/19.7	39046
1998 SF ₁₂₉	2000 03 23.9	12 13.25 +13 36.1 17.7	-1.11 - 2.1	5.3/20.4	40013
2000 FU ₃₁	2000 03 23.9	12 13.25 +17 10.4 18.0	-0.94 + 3.2	5.5/18.0	40238
2000 EV ₇₄	2000 03 23.9	12 13.40 -01 25.8 19.1	-0.83 + 8.0	0.0/24.0	40167
(14491)	2000 03 24.0	12 13.44 -10 40.3 18.2	-0.92 + 6.6	3.1/27.1	39845
(10008)	2000 03 24.0	12 13.44 +00 34.0 17.2	-0.84 + 5.1	0.7/23.3	38016
1994 PJ ₄	2000 03 24.0	12 13.45 -03 02.0 19.7	-0.93 + 6.4	0.6/24.5	35690
(14643)	2000 03 24.0	12 13.46 -09 08.2 17.4	-0.98 + 3.7	2.4/26.3	39889
1998 WK ₁₈	2000 03 24.0	12 13.53 -04 50.0 17.9	-1.03 + 5.5	1.2/25.0	40348
(14284)	2000 03 24.0	12 13.57 +01 29.7 17.2	-1.03 + 4.5	1.1/23.2	39132
1998 QA ₄₄	2000 03 24.0	12 13.59 -00 44.1 18.0	-1.08 + 4.2	0.3/23.8	40331
1985 VB ₁	2000 03 24.0	12 13.59 +24 17.4 19.5	-0.72 + 7.3	6.1/13.7	27305
(14590)	2000 03 24.0	12 13.59 +05 19.8 16.8	-1.04 + 5.0	2.9/22.0	39873
1998 XE ₈₃	2000 03 24.0	12 13.60 -03 59.0 17.8	-0.71 + 8.2	0.7/24.9	40057
2000 DE ₇	2000 03 24.0	12 13.74 +11 26.3 17.3	-0.94 + 5.5	4.7/19.8	40111
1997 AV ₁₈	2000 03 24.0	12 13.74 +40 30.5 18.3	-1.16 + 8.0	16.3/08.0	40314
2000 EW ₃₆	2000 03 24.0	12 13.83 +02 01.1 16.6	-0.92 + 7.0	1.6/22.9	40477
1998 SF ₃₇	2000 03 24.0	12 13.87 -06 10.6 18.0	-0.89 + 7.5	1.6/25.7	40004
(14362)	2000 03 24.0	12 13.87 -22 16.5 16.7	-0.95 + 3.4	6.5/30.6	39808

2000 ED ₁₃₇	2000 03 24.1	12 13.84 +03 27.1 19.0	-0.76 + 3.9	1.3/22.5	40203
2000 CQ ₉₄	2000 03 24.1	12 13.84 +02 32.0 17.6	-0.85 + 4.2	1.2/22.8	40108
(9836)	2000 03 24.1	12 13.91 -03 33.8 18.3	-0.84 + 5.7	0.6/24.8	33454
(10048)	2000 03 24.1	12 14.03 -08 51.6 17.0	-0.88 + 1.4	2.1/26.3	38749
1998 YK ₁₀	2000 03 24.1	12 14.06 -19 50.5 18.6	-0.91 + 3.8	5.5/30.0	40351
1998 QC ₅₆	2000 03 24.1	12 14.19 -03 59.3 18.6	-1.21 - 0.5	0.8/24.8	40331
1996 CQ	2000 03 24.1	12 14.23 +04 24.7 16.4	-0.99 + 3.7	2.4/22.4	40311
2000 EG ₉₅	2000 03 24.1	12 14.26 -13 25.6 16.9	-1.10 - 1.6	4.9/27.0	40178
2000 DC ₇	2000 03 24.2	12 14.22 +16 29.6 16.7	-0.76 +10.9	6.7/17.1	40460
1998 SJ ₆₃	2000 03 24.2	12 14.26 -06 47.8 19.1	-0.92 + 5.5	1.6/25.9	35718
(14185)	2000 03 24.2	12 14.30 +01 38.1 17.5	-0.92 + 4.0	1.0/23.3	39104
1998 WD ₁₂	2000 03 24.2	12 14.34 -00 07.1 16.2	-0.85 + 7.4	0.6/23.8	40348
2000 EO ₁₄₅	2000 03 24.2	12 14.44 -10 57.7 17.8	-0.92 + 7.2	3.3/27.4	40207
6070 P-L	2000 03 24.2	12 14.55 -03 45.4 18.1	-0.83 + 4.8	0.7/25.0	40531
(10204)	2000 03 24.2	12 14.56 +05 41.1 17.6	-0.77 + 6.8	2.3/21.8	38016
2000 EM ₃₉	2000 03 24.2	12 14.57 +00 37.8 17.0	-0.86 + 4.0	0.8/23.6	40141
(14012)	2000 03 24.2	12 14.60 +19 57.6 17.2	-0.81 + 4.8	6.1/16.8	39054
1998 XM ₇₉	2000 03 24.3	12 14.55 -01 34.8 16.8	-0.71 + 9.7	0.0/24.3	40056
2000 EJ ₇₅	2000 03 24.3	12 14.56 -06 23.1 16.5	-0.60 +27.7	2.0/26.5	40484
2000 EW ₁₃₆	2000 03 24.3	12 14.58 +01 19.9 17.3	-1.22 - 1.6	1.3/23.6	40492
1993 FG ₁	2000 03 24.3	12 14.58 -01 16.7 15.7	-0.69 +23.0	0.1/24.2	40301
(13814)	2000 03 24.3	12 14.58 +15 05.6 17.2	-0.77 + 4.7	4.6/18.5	38404
2000 EF ₆₅	2000 03 24.3	12 14.59 -03 56.5 18.0	-1.03 + 3.8	0.9/25.0	40163
1998 VX ₃₀	2000 03 24.3	12 14.60 -22 12.0 18.5	-0.89 + 6.6	6.7/31.7	34931
1997 SR ₃	2000 03 24.3	12 14.70 -00 53.7 19.0	-0.86 + 5.0	0.2/24.1	39980
(9837)	2000 03 24.3	12 14.75 +07 34.1 16.2	-0.82 + 6.2	3.1/21.2	33454
2000 CR ₉₄	2000 03 24.3	12 14.77 -02 33.4 16.7	-1.10 + 0.1	0.4/24.6	40458
(14530)	2000 03 24.3	12 14.78 -13 04.5 17.7	-1.06 + 2.9	4.4/27.6	39855
7082 P-L	2000 03 24.3	12 14.78 -09 41.8 17.1	-0.94 +19.8	3.2/27.6	40531
2000 EA ₄₄	2000 03 24.3	12 14.79 -00 55.3 18.5	-0.94 + 7.8	0.2/24.1	40146
2000 EF ₄	2000 03 24.3	12 14.86 +31 48.6 17.6	-1.62 - 4.6	15.0/16.8	39482
1990 UJ ₄	2000 03 24.3	12 14.87 +17 14.5 16.2	-1.02 + 3.4	7.3/18.3	40296
1994 PS ₂₇	2000 03 24.3	12 14.93 +02 08.0 18.8	-0.95 + 5.6	1.4/23.2	40306
(14422)	2000 03 24.3	12 14.94 -10 43.2 17.9	-0.82 + 3.0	2.6/27.2	39825
2000 ED ₆	2000 03 24.4	12 15.10 -00 17.1 16.7	-0.87 + 5.8	0.6/24.0	40472
1998 WO ₅	2000 03 24.4	12 15.12 -07 55.1 17.1	-0.98 + 3.9	2.4/26.3	40347
1997 SD ₄	2000 03 24.4	12 15.30 -04 17.4 18.9	-0.70 + 5.4	0.7/25.4	40319
1998 RP ₆₁	2000 03 24.4	12 15.30 -05 10.4 18.3	-0.94 + 3.8	1.1/25.6	40334
1988 TW ₁	2000 03 24.5	12 15.27 -10 15.2 17.5	-0.80 + 9.7	2.7/27.6	39938
2000 GB ₁₁₃	2000 03 24.5	12 15.30 +06 12.1 16.4	-1.04 + 0.6	3.6/22.4	40270
2000 EY ₂₃	2000 03 24.5	12 15.38 -01 47.7 17.7	-0.79 + 7.6	0.1/24.6	40475
(14500)	2000 03 24.5	12 15.51 -08 27.3 18.3	-0.98 + 6.8	2.6/26.7	39847
2000 FJ ₂₂	2000 03 24.5	12 15.54 +10 12.0 18.1	-0.88 + 1.2	3.5/21.1	40229
1995 YO ₁	2000 03 24.5	12 15.61 +10 32.4 18.2	-0.95 + 6.5	4.5/20.6	39962
2000 CO ₉₄	2000 03 24.5	12 15.65 +03 24.1 17.1	-0.71 + 7.1	1.6/22.8	40108
(14403)	2000 03 24.5	12 15.69 -06 27.8 17.9	-0.82 + 5.3	1.6/26.2	39820
1998 XX ₄	2000 03 24.6	12 15.63 +18 40.0 17.7	-0.80 + 3.7	5.5/17.7	40049
(14782)	2000 03 24.6	12 15.80 -01 02.0 17.9	-0.94 + 7.2	0.3/24.4	39928
2000 DF ₇	2000 03 24.6	12 15.91 +17 36.2 17.1	-0.79 + 4.5	5.9/18.0	40460
(14483)	2000 03 24.7	12 16.06 -01 55.4 18.5	-0.93 + 6.2	0.1/24.8	39842
2000 FK ₄₄	2000 03 24.7	12 16.07 +05 08.2 17.8	-0.95 + 3.9	2.6/22.7	40251

(14509)	2000 03 24.7	12 16.13	-06 34.1	17.8	-0.90	+	6.2	1.8/26.3	39849
2591 P-L	2000 03 24.7	12 16.41	-01 10.9	18.5	-0.78	+	6.5	0.2/24.6	40530
2000 FE ₄₃	2000 03 24.7	12 16.41	+06 58.2	17.1	-0.93	+	6.8	3.7/21.9	40251
(9865)	2000 03 24.7	12 16.44	-07 00.5	17.4	-1.00	+	7.3	1.9/26.5	33461
2000 EF ₄₀	2000 03 24.8	12 16.40	-03 31.2	18.2	-0.95	+	4.7	0.6/25.3	40143
2000 EM ₂₄	2000 03 24.8	12 16.49	-02 39.7	18.4	-1.10	+	3.9	0.4/25.1	40134
1998 ST ₁₁₈	2000 03 24.8	12 16.51	+01 08.6	17.2	-0.98	+	4.6	1.3/23.9	40340
1999 AO ₂	2000 03 24.8	12 16.60	-07 40.5	17.6	-0.79	+	3.2	1.5/26.7	40064
2000 DJ ₇	2000 03 24.8	12 16.64	+13 49.4	16.5	-1.01	+	0.3	7.8/20.6	40460
1991 RL ₁₃	2000 03 24.8	12 16.64	-05 56.3	18.4	-1.02	+	6.0	1.5/26.1	40297
1998 SP ₅₄	2000 03 24.8	12 16.75	-02 22.5	17.7	-0.87	+	7.7	0.2/25.1	40338
1998 UO ₂₀	2000 03 24.8	12 16.77	-15 54.0	17.2	-0.79	+	9.0	5.1/30.1	40028
2000 AJ ₁₃₃	2000 03 24.9	12 16.73	+32 20.2	16.9	-0.99	-	1.3	14.9/13.5	40438
2000 DH ₁₂	2000 03 24.9	12 16.75	+00 26.1	17.8	-0.70	+	7.2	0.6/24.1	40461
(14468)	2000 03 24.9	12 16.78	+02 42.2	16.8	-0.90	+	7.3	1.8/23.4	39838
2000 DL ₇	2000 03 24.9	12 16.81	+15 58.5	16.6	-0.95	+	0.1	6.1/19.8	40460
1998 SR ₂₇	2000 03 24.9	12 16.92	-38 24.4	20.3	-1.09	+	4.8	11.0/08.0	39235
1998 UA ₂₀	2000 03 24.9	12 16.96	+00 14.7	20.3	-0.93	+	5.7	0.7/24.3	35722
2000 EV ₁₃₆	2000 03 24.9	12 16.98	+03 18.2	18.3	-0.80	+	5.0	1.6/23.3	40202
1998 SX ₃₃	2000 03 24.9	12 16.98	+02 04.0	18.4	-1.68	-	4.8	1.9/24.3	40004
2708 P-L	2000 03 24.9	12 17.09	-00 41.4	17.8	-0.97	+	3.7	0.5/24.6	40273
1997 SA ₂₀	2000 03 24.9	12 17.09	-02 38.1	21.2	-0.88	+	4.8	0.2/25.2	38461
1997 RF ₄	2000 03 24.9	12 17.16	+03 20.9	19.4	-0.86	+	3.6	1.5/23.4	31010
1995 XP ₁	2000 03 25.0	12 17.14	+03 13.7	17.1	-0.93	+	6.6	2.1/23.4	40310
1998 SE ₁₁₇	2000 03 25.0	12 17.15	-12 18.7	15.7	-0.82	+	8.7	4.5/28.8	40340
1998 UX ₂₂	2000 03 25.0	12 17.24	+02 49.1	18.8	-0.89	+	5.1	1.6/23.6	40344
(9976)	2000 03 25.0	12 17.30	+10 17.7	17.9	-0.85	+	4.4	3.4/21.1	33665
1998 UO ₁₈	2000 03 25.0	12 17.49	-02 03.2	19.2	-0.94	+	5.4	0.1/25.1	40344
1995 CO ₆	2000 03 25.0	12 17.49	-00 01.2	18.3	-0.80	+	6.3	0.6/24.5	40308
1988 RN ₅	2000 03 25.0	12 17.51	-05 08.6	18.9	-0.81	+	5.5	0.9/26.2	39937
1998 UF ₁₉	2000 03 25.1	12 17.45	-00 05.9	18.9	-0.88	+	6.6	0.6/24.5	40344
2000 ES ₁₀₄	2000 03 25.1	12 17.46	-07 19.0	16.1	-0.87	+	8.2	2.4/27.0	40183
(10406)	2000 03 25.1	12 17.50	-11 10.3	18.7	-0.70	+	4.6	2.2/28.3	34161
1992 SS ₁₇	2000 03 25.1	12 17.52	-01 58.9	17.9	-0.77	+	5.5	0.0/25.1	40300
2000 EO ₄₄	2000 03 25.1	12 17.65	-05 48.6	17.1	-1.00	+	5.6	1.7/26.3	40479
2000 EG ₁₇₂	2000 03 25.1	12 17.71	+00 20.3	18.7	-0.94	+	8.3	0.8/24.4	40216
2000 CD ₅₈	2000 03 25.1	12 17.74	+11 44.3	16.9	-0.73	+	6.3	4.0/20.3	40103
1990 VH ₃	2000 03 25.1	12 17.76	-07 59.5	18.2	-0.91	+	6.1	2.1/27.2	40296
2000 DF ₁	2000 03 25.1	12 17.76	+04 45.4	16.1	-1.05	+	3.7	2.9/23.2	40111
1997 LO ₁₇	2000 03 25.1	12 17.83	+00 43.2	18.6	-0.90	+	8.7	1.1/24.3	39976
2000 CC ₅₈	2000 03 25.1	12 17.83	+11 50.9	16.1	-0.74	+	9.8	5.1/19.9	40452
1998 QV ₄₅	2000 03 25.1	12 17.84	-02 39.4	17.6	-0.84	+	8.7	0.2/25.4	40331
2000 DQ ₁₂	2000 03 25.2	12 17.81	-00 16.8	18.9	-0.82	+	6.0	0.5/24.7	40461
(12812)	2000 03 25.2	12 17.85	-00 56.3	17.2	-0.96	+	5.0	0.4/24.9	37067
2000 EE ₄₀	2000 03 25.2	12 17.91	-03 44.5	17.5	-0.79	+	3.6	0.6/25.8	40143
1998 RR ₇₇	2000 03 25.2	12 17.95	+04 49.6	15.8	-0.81	+	7.4	3.3/22.9	40336
2000 FA ₃	2000 03 25.2	12 18.02	-07 55.8	17.2	-1.02	+	5.0	2.6/27.0	40218
1994 AF ₃	2000 03 25.2	12 18.07	-20 06.5	17.2	-0.82	+	4.2	5.2/31.5	40304
1998 WJ ₁₈	2000 03 25.2	12 18.15	-10 27.2	16.6	-1.01	+	5.1	3.5/27.9	40348
6274 P-L	2000 03 25.3	12 18.17	-04 43.6	16.8	-0.82	+	7.6	1.1/26.2	40531
(13709)	2000 03 25.3	12 18.19	+05 57.5	16.9	-0.96	+	7.6	3.0/22.7	38374

1994 XR ₄	2000 03 25.3	12 18.28	+34 07.0	17.8	-0.94	+	4.1	10.3/11.6	40307
2000 EG ₃₉	2000 03 25.3	12 18.35	+00 44.1	16.6	-0.65	+	9.4	0.7/24.3	40141
2000 CN ₅₈	2000 03 25.3	12 18.38	+10 00.1	16.7	-0.65	+	10.8	3.5/20.6	40453
(13628)	2000 03 25.3	12 18.39	+11 05.2	16.0	-1.01	+	3.5	5.8/21.5	38350
(9915)	2000 03 25.3	12 18.43	+01 34.3	17.5	-0.77	+	4.5	1.0/24.2	33651
2000 EH ₁₄	2000 03 25.3	12 18.45	-01 20.6	17.8	-0.88	+	8.1	0.3/25.1	40130
1998 VZ ₃₇	2000 03 25.3	12 18.50	+19 13.7	16.9	-1.02	+	0.5	8.5/19.2	40346
1994 TU ₃	2000 03 25.3	12 18.59	-17 05.6	17.7	-0.88	+	10.6	4.5/30.9	40306
1997 LQ ₂	2000 03 25.3	12 18.61	-33 34.2	19.9	-1.03	+	6.3	10.0/05.5	40318
2000 DK ₇	2000 03 25.4	12 18.56	+17 08.0	17.1	-0.91	+	7.2	7.1/18.5	40460
1997 QS ₂	2000 03 25.4	12 18.59	+07 35.3	18.1	-0.77	+	4.1	2.8/22.3	40319
2000 DG ₇	2000 03 25.4	12 18.61	+14 56.1	16.5	-0.80	+	7.7	5.4/19.3	40460
1998 VR ₆	2000 03 25.4	12 18.62	-06 39.3	17.3	-0.92	+	8.4	1.8/27.0	40035
1998 QP ₉₈	2000 03 25.4	12 18.85	-12 21.9	18.7	-0.93	+	6.4	3.3/28.9	40332
(14074)	2000 03 25.4	12 18.88	+09 21.0	17.8	-0.72	+	6.5	3.3/21.4	39071
1997 QZ	2000 03 25.4	12 18.96	-00 28.9	18.3	-0.90	+	7.8	0.5/25.0	40319
(14321)	2000 03 25.5	12 19.00	+03 13.8	18.6	-1.01	+	5.7	1.8/23.9	39795
2000 EX ₃₉	2000 03 25.5	12 19.05	+00 05.2	16.3	-1.00	+	2.3	0.9/24.9	40142
1991 VJ ₄	2000 03 25.5	12 19.05	+06 00.0	16.2	-1.04	+	4.4	3.0/23.1	40298
1992 ER ₁₈	2000 03 25.5	12 19.12	-04 48.5	16.9	-1.06	+	0.3	1.2/26.3	40299
2000 EF ₁₁₄	2000 03 25.5	12 19.12	-09 29.3	17.3	-0.74	+	6.6	2.3/28.1	40192
1993 FG ₈	2000 03 25.5	12 19.25	+03 12.8	17.7	-0.88	+	9.9	1.7/23.7	40301
1979 MB ₃	2000 03 25.5	12 19.26	+21 11.7	16.5	-0.82	+	7.9	8.4/16.4	40289
5739 T-3	2000 03 25.5	12 19.26	+13 50.3	16.5	-0.89	+	4.3	6.3/20.4	40535
1998 VK ₆	2000 03 25.5	12 19.28	-08 15.0	18.8	-0.87	+	4.6	2.0/27.6	34028
(14615)	2000 03 25.6	12 19.28	+03 12.8	17.1	-1.01	+	3.9	2.0/24.0	39881
1998 SJ ₆₄	2000 03 25.6	12 19.28	+05 43.8	15.8	-0.99	+	4.4	3.4/23.2	40007
2000 FW ₁₉	2000 03 25.6	12 19.35	+14 16.2	17.8	-0.77	+	4.1	4.5/20.1	40227
1998 XO ₇₇	2000 03 25.6	12 19.40	+19 35.0	17.8	-0.87	+	5.0	6.6/18.2	40350
1995 MC	2000 03 25.6	12 19.41	-31 25.1	17.4	-0.93	+	1.4	7.9/03.6	34293
2000 EO ₂₄	2000 03 25.6	12 19.45	-02 16.6	17.7	-0.87	+	6.4	0.1/25.7	40134
(14345)	2000 03 25.6	12 19.46	+01 27.6	17.4	-0.85	+	6.4	1.1/24.5	39802
(9916)	2000 03 25.6	12 19.48	-03 42.0	17.2	-0.79	+	5.0	0.5/26.2	33652
2000 EU ₃₇	2000 03 25.6	12 19.51	+02 08.6	17.9	-0.72	+	6.2	1.3/24.2	40477
2000 FQ ₂₀	2000 03 25.6	12 19.57	+07 57.2	18.0	-0.84	+	7.8	4.4/22.1	40228
2000 ET ₆₅	2000 03 25.6	12 19.58	-02 14.5	18.2	-0.79	+	4.7	0.0/25.7	40163
(14107)	2000 03 25.6	12 19.60	-01 12.5	18.5	-0.72	+	4.7	0.2/25.4	39081
1998 SM ₁₃₇	2000 03 25.6	12 19.63	+08 56.1	16.7	-0.95	+	5.5	4.5/22.2	40341
1998 ST ₁₄₀	2000 03 25.7	12 19.63	-04 23.5	19.3	-0.95	+	5.7	0.8/26.4	40341
2000 FN ₃₃	2000 03 25.7	12 19.65	+19 42.1	17.6	-0.82	+	4.3	6.7/18.1	40240
2000 ER ₂₆	2000 03 25.7	12 19.67	+04 10.3	18.5	-0.92	+	20.8	2.6/23.2	40136
1998 SQ ₄₂	2000 03 25.7	12 19.70	-04 12.0	18.5	-0.99	+	4.4	0.8/26.3	40337
(14632)	2000 03 25.7	12 19.70	-04 36.7	18.0	-0.85	+	5.5	0.7/26.5	39886
4733 P-L	2000 03 25.7	12 19.71	+00 41.7	18.9	-0.87	+	8.3	1.0/24.7	40275
2000 FR ₂₀	2000 03 25.7	12 19.73	+07 49.4	17.4	-0.90	+	7.4	3.4/22.4	40228
3071 T-2	2000 03 25.7	12 19.87	+04 19.7	17.1	-0.93	+	4.4	2.3/23.7	40533
(9963)	2000 03 25.7	12 19.98	+30 32.9	18.3	-0.96	+	6.6	9.4/13.3	33662
(14772)	2000 03 25.7	12 20.02	+03 11.6	17.4	-0.80	+	5.2	1.7/24.0	39925
2000 EN ₁₁₁	2000 03 25.8	12 20.05	+13 42.9	16.6	-1.05	+	0.8	5.9/21.3	40189
2000 DZ ₁₂	2000 03 25.8	12 20.06	-00 04.6	18.8	-0.91	+	6.1	0.7/25.1	40113
1998 WS ₁₀	2000 03 25.8	12 20.07	+01 08.4	18.3	-0.87	+	4.9	1.0/24.8	40044

1998 XU ₃	2000 03 25.8	12 20.09	+00 32.8	18.5	-0.93	+	5.7	0.9/25.0	40349
1998 SR ₃₃	2000 03 25.8	12 20.20	-09 01.7	19.2	-1.00	+	3.0	2.1/28.0	35717
2000 DN ₇	2000 03 25.8	12 20.25	+10 01.3	16.8	-1.04	+	3.3	5.2/22.2	40460
1987 BS ₁	2000 03 25.8	12 20.39	-22 51.8	17.1	-0.97	+	3.7	7.1/01.6	38752
2000 EA ₄₅	2000 03 25.8	12 20.39	-04 37.2	18.2	-0.94	+	8.2	0.9/26.7	40146
1998 UF ₁₅	2000 03 25.8	12 20.41	-11 37.4	18.0	-0.94	+	5.3	3.2/28.9	40344
1986 QY ₃	2000 03 25.9	12 20.36	+03 21.8	18.9	-0.91	+	6.5	1.8/24.1	40292
(13371)	2000 03 25.9	12 20.53	-14 26.2	16.3	-0.96	+	5.0	5.3/29.8	37588
1999 BE ₂₀	2000 03 25.9	12 20.55	-03 04.4	18.1	-0.82	+	2.8	0.2/26.2	40068
(14463)	2000 03 25.9	12 20.57	-01 44.9	17.5	-1.04	+	3.7	0.2/25.8	39837
(9883)	2000 03 25.9	12 20.65	-09 20.5	18.2	-1.02	+	3.9	2.5/28.0	33465
(14106)	2000 03 25.9	12 20.68	-04 52.9	18.4	-0.82	+	5.3	0.9/26.8	39081
2052 T-2	2000 03 25.9	12 20.69	-03 54.7	17.5	-0.81	+	5.0	0.5/26.5	40533
2000 EP ₃₄	2000 03 25.9	12 20.70	+17 22.0	17.4	-0.81	+	2.3	5.4/19.6	40137
1994 SO ₉	2000 03 25.9	12 20.71	-00 08.7	18.1	-0.94	+	4.0	0.9/25.3	39957
4100 P-L	2000 03 25.9	12 20.74	-08 36.7	16.8	-1.10	-	0.8	2.6/27.6	40531
(13482)	2000 03 26.0	12 20.83	+09 20.8	17.0	-0.76	+	5.2	3.2/22.0	38311
2000 FT ₁₉	2000 03 26.0	12 20.86	+11 46.5	17.8	-0.93	+	6.7	5.3/21.2	40227
(14746)	2000 03 26.0	12 20.86	-05 51.0	18.1	-0.93	+	5.7	1.2/27.2	39917
(14573)	2000 03 26.0	12 20.89	-03 14.4	18.3	-0.91	+	8.4	0.4/26.4	39867
(13589)	2000 03 26.0	12 20.90	+24 58.5	16.8	-0.77	+	4.9	9.1/15.8	38340
(14572)	2000 03 26.0	12 20.95	-03 49.0	17.6	-0.89	+	9.9	0.6/26.6	39867
2000 EV ₆₆	2000 03 26.0	12 21.04	-00 53.7	18.6	-0.95	+	5.4	0.5/25.6	40163
(14445)	2000 03 26.0	12 21.05	-01 55.8	18.1	-0.75	+	4.4	0.1/26.0	39832
1998 SA ₂₂	2000 03 26.1	12 21.21	-01 21.5	17.1	-1.08	+	2.4	0.4/25.9	40336
1998 SH ₇₁	2000 03 26.1	12 21.29	+00 59.2	18.1	-0.91	+	6.7	1.1/25.1	40339
2000 FN ₂₀	2000 03 26.1	12 21.39	+08 19.8	17.6	-0.77	+	4.0	3.6/22.7	40227
1993 FQ ₂₆	2000 03 26.1	12 21.42	-05 42.9	17.1	-0.97	+	5.1	1.5/27.2	40302
2000 EY ₁₃₆	2000 03 26.1	12 21.43	+03 58.9	17.3	-0.88	+	8.4	2.2/24.0	40202
1998 WO ₉	2000 03 26.1	12 21.43	+06 07.9	17.7	-0.99	+	5.2	3.2/23.5	40347
(14391)	2000 03 26.1	12 21.45	-03 15.7	17.9	-0.88	+	6.8	0.3/26.5	39816
(14628)	2000 03 26.1	12 21.46	-09 46.2	17.4	-1.00	+	6.9	3.0/28.6	39884
2000 FO ₂₀	2000 03 26.1	12 21.46	+08 46.1	17.7	-0.74	+10.1		3.8/21.9	40500
1993 TH ₂₈	2000 03 26.1	12 21.47	-02 31.9	18.3	-0.76	+	7.4	0.1/26.3	40304
1995 FL ₂₁	2000 03 26.1	12 21.48	+05 29.3	19.5	-0.85	+	2.8	2.3/23.8	30983
1994 PE ₂₉	2000 03 26.1	12 21.50	+00 14.9	20.2	-0.93	+	5.9	0.8/25.4	39522
1998 SV ₁₁₀	2000 03 26.1	12 21.54	-03 08.8	17.2	-1.07	+	2.6	0.3/26.4	40339
2000 EZ ₃₉	2000 03 26.2	12 21.45	+00 19.1	15.9	-0.87	+	4.3	1.1/25.4	40142
1981 EL ₃₆	2000 03 26.2	12 21.49	-07 04.3	18.7	-0.94	+	5.6	1.9/27.7	22697
1994 TM ₁₆	2000 03 26.2	12 21.54	+00 02.6	19.7	-0.92	+	5.5	0.8/25.5	39162
2000 EP ₈₇	2000 03 26.2	12 21.65	+03 33.5	17.1	-0.94	+	5.0	2.4/24.4	40486
1999 AC ₂₃	2000 03 26.2	12 21.68	+15 03.6	17.8	-0.72	+	6.8	4.8/19.8	40067
2000 EP ₁₁₁	2000 03 26.2	12 21.74	+16 03.1	17.8	-0.92	+	3.2	6.4/20.3	40189
1998 XU ₉₃	2000 03 26.2	12 21.75	-05 46.8	17.7	-0.80	+	8.5	1.0/27.5	40057
(14517)	2000 03 26.2	12 21.79	-15 05.2	17.5	-0.76	+	9.0	4.2/31.0	39852
1998 YM ₁₂	2000 03 26.2	12 21.82	+00 47.7	18.4	-0.78	+	4.5	0.9/25.3	40351
2000 EB ₁₃₇	2000 03 26.2	12 21.84	+00 55.6	18.1	-0.85	+	2.4	1.0/25.3	40203
1998 YH ₂₀	2000 03 26.3	12 21.91	-05 20.5	20.6	-0.64	+	3.7	0.7/27.3	33727
2000 FC ₁₃	2000 03 26.3	12 22.08	+22 13.7	18.2	-0.94	+	1.5	9.8/18.4	40223
2000 EK ₄₀	2000 03 26.3	12 22.17	-00 21.2	18.2	-0.99	+	8.3	0.9/25.7	40143
2000 EZ ₁₃₆	2000 03 26.3	12 22.18	+03 21.1	17.5	-0.87	+	6.1	2.2/24.5	40203

(14342)	2000 03 26.3	12 22.21	+04 20.6	16.9	-0.77	+	6.7	1.8/24.1	39801
1994 TH ₁₆	2000 03 26.3	12 22.25	-16 31.8	18.8	-0.90	+	7.8	4.4/31.3	33689
(14030)	2000 03 26.4	12 22.24	+10 32.4	17.2	-1.06	+	1.0	4.7/22.9	39059
1998 SN ₁₆₂	2000 03 26.4	12 22.24	-11 08.7	18.2	-0.82	+	7.2	3.1/29.5	40018
(14442)	2000 03 26.4	12 22.29	-05 35.1	17.7	-0.84	+	2.8	0.9/27.4	39831
1998 SY ₆₀	2000 03 26.4	12 22.29	+02 31.4	17.5	-0.95	+	7.9	2.0/24.8	40338
1998 QS ₉₈	2000 03 26.4	12 22.29	+02 39.7	17.3	-1.04	+	5.8	1.9/24.9	40332
1991 AS ₁	2000 03 26.4	12 22.37	-46 58.4	18.2	-1.43	-	1.6	13.6/11.2	34007
1998 QN ₁₀₀	2000 03 26.4	12 22.60	-02 37.4	18.3	-1.05	+	4.6	0.1/26.5	40333
2000 FP ₄₄	2000 03 26.5	12 22.58	+05 18.3	17.7	-0.87	+	1.8	2.2/24.2	40251
1989 WU ₁	2000 03 26.5	12 22.69	-12 19.1	18.2	-0.84	+	6.9	2.8/29.9	40294
2000 EJ ₄₀	2000 03 26.5	12 22.72	-01 46.0	17.0	-0.78	+	4.2	0.2/26.3	40143
2000 DD ₁₆	2000 03 26.5	12 22.75	+04 22.3	16.0	-1.03	+	4.8	2.9/24.5	40461
1993 FO ₃₁	2000 03 26.5	12 22.89	-00 20.9	18.7	-0.99	+	5.0	0.8/25.9	40302
1995 FU ₁₂	2000 03 26.5	12 22.90	-02 10.0	19.1	-0.77	+	4.5	0.1/26.5	31728
1996 AA ₁₁	2000 03 26.6	12 23.07	-03 44.1	17.5	-0.88	+	6.9	0.5/27.0	39963
1987 SD ₁₃	2000 03 26.6	12 23.07	+00 22.1	18.2	-0.95	+	5.8	1.0/25.7	40292
1998 VF ₃₆	2000 03 26.6	12 23.15	-05 17.5	20.0	-0.93	+	6.0	0.9/27.5	35725
2000 EO ₉₅	2000 03 26.6	12 23.16	-10 29.8	17.4	-0.86	+	6.8	3.1/29.4	40178
1996 SJ ₃	2000 03 26.6	12 23.17	-04 07.2	17.3	-0.78	+	5.0	0.5/27.2	40313
(14014)	2000 03 26.6	12 23.29	-00 56.7	17.0	-0.70	+	7.6	0.5/26.1	39054
2000 EM ₄₀	2000 03 26.6	12 23.29	-03 22.5	16.9	-0.79	+	3.6	0.3/27.0	40144
(10029)	2000 03 26.6	12 23.31	-04 58.0	18.4	-0.88	+	4.8	0.7/27.5	33865
(14634)	2000 03 26.6	12 23.33	-01 42.2	17.2	-0.94	+	2.5	0.3/26.5	39886
2000 DM ₃	2000 03 26.7	12 23.34	+07 06.6	17.6	-0.99	+	6.8	3.9/23.6	40460
2000 ES ₂₅	2000 03 26.7	12 23.43	-03 12.8	17.6	-1.05	+	1.9	0.3/26.9	40475
2000 EN ₂₅	2000 03 26.7	12 23.45	-02 04.4	18.5	-0.95	+	5.5	0.2/26.6	40134
2000 CE ₅₈	2000 03 26.7	12 23.49	+15 20.0	15.9	-0.76	+	9.5	6.5/19.8	40452
1999 BV ₂₇	2000 03 26.7	12 23.49	+15 54.3	17.0	-0.80	+	3.3	5.7/20.8	40352
1998 VU ₅	2000 03 26.7	12 23.50	-07 26.3	17.2	-0.92	+	4.6	1.9/28.3	40345
2000 FQ ₄₄	2000 03 26.7	12 23.55	+06 05.5	16.6	-0.93	+	7.3	3.4/23.9	40251
1994 PG ₂₄	2000 03 26.7	12 23.59	-00 10.6	17.5	-0.92	+	6.5	0.9/26.0	40306
(10049)	2000 03 26.7	12 23.64	-09 58.3	18.1	-0.74	+	4.4	1.9/29.2	33869
1998 VH ₁₈	2000 03 26.7	12 23.65	-11 50.0	18.3	-1.03	+	6.5	3.4/29.7	40346
2000 EN ₄₅	2000 03 26.7	12 23.68	-05 34.0	17.3	-0.85	+	2.0	0.7/27.7	40147
1997 MQ ₂	2000 03 26.7	12 23.71	-01 47.0	20.1	-0.91	+	6.4	0.3/26.5	39181
1998 XJ ₁₁	2000 03 26.8	12 23.64	+15 55.8	18.0	-0.75	+	4.2	4.9/20.5	40051
2000 DM ₉₂	2000 03 26.8	12 23.75	-00 15.0	16.8	-0.88	+	6.3	1.1/26.1	40469
2000 EP ₂₅	2000 03 26.8	12 23.87	-02 18.1	18.4	-0.97	+	5.1	0.1/26.8	40475
2000 ED ₄₀	2000 03 26.8	12 23.87	-00 04.8	18.1	-0.84	+	3.9	0.8/26.1	40142
2000 EU ₁₀₃	2000 03 26.8	12 23.88	+20 27.4	16.9	-0.85	+	7.4	8.2/18.6	40487
2000 EE ₄₅	2000 03 26.8	12 23.89	-06 11.3	18.4	-0.77	+	4.3	0.9/28.0	40146
1998 RO ₃	2000 03 26.8	12 24.13	-15 48.7	18.1	-1.61	-	4.0	6.3/29.3	39992
1994 PS ₃₆	2000 03 26.9	12 24.05	-02 46.8	18.5	-0.92	+	7.1	0.1/27.0	39957
1997 RM ₉	2000 03 26.9	12 24.10	-06 34.4	18.5	-0.94	+	2.2	1.2/28.0	40319
1998 UM ₂₅	2000 03 26.9	12 24.26	-01 49.1	18.3	-0.91	+	8.6	0.3/26.7	40029
2000 FB ₂₁	2000 03 26.9	12 24.35	+13 22.7	17.8	-0.93	+	2.3	5.4/22.1	40228
2000 FW ₃₀	2000 03 26.9	12 24.36	+23 31.1	16.8	-0.97	+	2.7	9.4/18.0	40237
1994 AD ₅	2000 03 26.9	12 24.37	-01 17.1	19.3	-0.78	+	4.8	0.4/26.5	39954
(14574)	2000 03 26.9	12 24.42	-05 07.8	17.8	-1.05	+	4.1	1.0/28.0	39868
(14334)	2000 03 27.0	12 24.42	-05 25.4	18.5	-0.82	+	4.9	0.9/28.0	39799

1978 SD ₈	2000 03 27.0	12 24.51	-00 46.6	17.8	-1.03	+	5.2	0.7/26.5	40288
1997 RH	2000 03 27.0	12 24.54	-04 30.3	18.1	-0.85	+	5.1	0.6/27.6	40319
1993 TK ₃₃	2000 03 27.0	12 24.58	+04 52.1	18.3	-0.84	+	4.7	2.3/24.6	40304
2000 FH ₂₀	2000 03 27.0	12 24.66	+09 45.2	17.5	-1.09	+	3.7	5.0/23.4	40227
1998 TG ₃₀	2000 03 27.1	12 24.72	-01 31.7	19.2	-0.97	+	5.7	0.4/26.7	40343
2000 EZ ₇₄	2000 03 27.1	12 24.72	-00 43.0	19.1	-0.87	+	9.0	0.7/26.4	40167
1998 SK ₃₆	2000 03 27.1	12 24.88	+07 04.7	20.6	-0.88	+	5.2	2.9/24.0	35717
(14779)	2000 03 27.1	12 24.93	+02 25.9	17.1	-0.81	+	5.0	1.6/25.5	39927
1997 LP ₁	2000 03 27.1	12 24.93	+05 52.5	18.1	-0.92	+	9.2	3.4/24.2	40318
2000 EJ ₉₆	2000 03 27.1	12 25.03	+02 29.9	17.8	-0.85	+	7.7	1.8/25.4	40179
1998 VX ₃₃	2000 03 27.1	12 25.06	-04 49.9	18.9	-0.95	+	6.7	0.7/27.9	40040
1998 MJ ₄₁	2000 03 27.2	12 25.13	+43 00.2	17.4	-1.25	+	2.9	18.6/08.6	40328
2000 EC ₂₅	2000 03 27.2	12 25.16	-00 24.3	17.3	-0.72	+	11.3	1.0/26.3	40134
2000 FV ₃₃	2000 03 27.2	12 25.23	+02 46.8	17.9	-0.78	+	4.9	1.6/25.4	40241
(11393)	2000 03 27.2	12 25.28	+01 29.8	17.0	-0.77	+	4.6	1.3/25.9	35588
2000 FD ₂₀	2000 03 27.2	12 25.32	+12 01.7	17.7	-0.90	+	9.4	5.7/21.8	40227
1991 TH ₁	2000 03 27.2	12 25.42	+07 12.7	18.8	-1.22	+	0.3	3.4/24.8	40298
(14502)	2000 03 27.2	12 25.43	+07 55.6	17.7	-0.96	+	5.8	4.7/23.9	39848
(14549)	2000 03 27.2	12 25.46	-02 26.5	17.3	-0.89	+	5.0	0.1/27.2	39861
1998 TN ₂	2000 03 27.3	12 25.62	-01 13.8	17.8	-1.03	+	2.6	0.6/26.9	40342
1990 QM ₇	2000 03 27.3	12 25.63	-03 37.1	17.0	-1.03	+	3.3	0.3/27.6	40295
1994 PG ₈	2000 03 27.3	12 25.65	+00 59.3	21.6	-0.90	+	6.4	1.2/26.1	33688
1997 JB ₈	2000 03 27.3	12 25.67	-07 21.9	18.8	-0.98	+	8.0	1.7/28.8	40317
1989 UN ₇	2000 03 27.3	12 25.67	-00 00.7	18.6	-0.85	+	5.3	0.9/26.5	40294
1997 AQ ₆	2000 03 27.3	12 25.71	+47 32.4	16.4	-1.71	-	6.1	23.8/10.5	40314
2000 FX ₄₄	2000 03 27.3	12 25.74	+04 49.4	18.3	-1.05	+	5.8	2.6/25.0	40252
1998 WK ₆	2000 03 27.3	12 25.75	-03 02.7	18.0	-0.83	+	6.0	0.1/27.5	40347
1997 TX ₂₃	2000 03 27.3	12 25.84	-03 32.9	20.0	-0.73	+	4.8	0.2/27.6	35702
(13904)	2000 03 27.4	12 25.85	+04 09.4	17.5	-0.93	+	3.4	2.2/25.3	39024
1996 PY ₈	2000 03 27.4	12 25.87	-07 58.0	17.3	-0.80	+	3.5	1.6/29.0	40313
(14644)	2000 03 27.4	12 25.91	-07 09.5	17.7	-0.84	+	5.1	1.4/28.8	39889
2000 EX ₆₈	2000 03 27.4	12 26.06	-00 36.0	18.1	-0.89	+	6.7	0.9/26.7	40165
2000 ES ₆₈	2000 03 27.4	12 26.10	-02 00.4	18.3	-0.97	+	7.9	0.3/27.2	40164
1990 SM ₁₄	2000 03 27.4	12 26.13	+02 05.7	17.1	-0.91	+	7.0	1.6/25.8	40295
2000 EN ₄₀	2000 03 27.4	12 26.20	-01 09.9	16.7	-0.78	+	4.3	0.6/27.0	40144
2000 DG ₂	2000 03 27.5	12 26.18	+01 51.6	18.9	-0.72	+	10.4	1.6/25.7	40459
2000 DN ₃	2000 03 27.5	12 26.20	+05 14.0	16.9	-0.94	+	2.0	2.9/25.2	40460
1998 WQ ₈	2000 03 27.5	12 26.33	+08 43.9	18.1	-0.95	+	4.9	4.1/23.9	40044
1998 SG ₁₀₇	2000 03 27.5	12 26.39	-04 29.9	19.1	-0.94	+	5.9	0.6/28.1	40339
1998 TD ₅	2000 03 27.5	12 26.42	+04 28.9	18.0	-0.92	+	5.3	2.5/25.2	40342
1998 SH ₂₂	2000 03 27.5	12 26.45	-06 17.8	18.7	-1.06	+	4.3	1.3/28.6	40336
1998 QX ₁₀₆	2000 03 27.6	12 26.56	+02 06.7	18.5	-1.05	+	3.8	1.8/26.2	40333
1998 WK ₂	2000 03 27.6	12 26.57	-04 31.6	18.8	-0.87	+	6.2	0.5/28.1	39546
2000 GQ ₁₃	2000 03 27.6	12 26.61	-05 43.2	17.2	-0.74	+	10.2	1.1/28.7	40258
1997 WQ ₁₁	2000 03 27.6	12 26.79	-01 04.8	16.7	-0.76	+	4.5	0.6/27.1	40321
(14375)	2000 03 27.6	12 26.81	-09 33.5	17.4	-0.91	+	5.2	2.1/29.7	39811
2000 FJ ₂₁	2000 03 27.6	12 26.95	+09 50.0	18.0	-0.99	+	1.9	4.1/24.0	40228
2000 EY ₂₅	2000 03 27.6	12 26.96	-01 33.6	18.3	-0.91	+	7.4	0.5/27.2	40135
1998 WQ ₉	2000 03 27.7	12 26.91	-06 45.5	19.9	-0.85	+	6.8	1.2/29.0	35726
1997 WQ ₁₅	2000 03 27.7	12 26.94	-05 56.5	19.8	-0.69	+	5.2	0.7/28.7	34019
2000 DN ₉₂	2000 03 27.7	12 27.01	-00 12.1	17.2	-0.78	+	5.5	1.2/26.8	40469

(14459)	2000 03 27.7	12 27.11	-06 15.9	17.7	-0.98	+	5.9	1.2/28.8	39836
1992 SC ₂₁	2000 03 27.8	12 27.29	+01 34.7	19.2	-0.78	+	5.1	1.3/26.3	34186
2000 EE ₁₃₅	2000 03 27.8	12 27.65	+03 28.3	17.6	-1.02	+	7.1	2.7/25.8	40201
2000 EA ₁₃₅	2000 03 27.8	12 27.66	+05 26.7	17.7	-0.87	+	8.8	3.4/24.9	40201
1998 TN ₁₀	2000 03 27.8	12 27.69	+02 43.9	17.4	-1.04	+	3.4	2.6/26.2	40343
2000 FG ₂₁	2000 03 27.8	12 27.69	+13 15.9	18.2	-0.83	+	4.6	4.7/22.5	40228
1998 VF ₅	2000 03 27.8	12 27.69	+08 36.5	19.1	-0.97	+	3.8	3.6/24.4	40033
(14045)	2000 03 27.9	12 27.63	-18 10.2	16.9	-0.97	+	6.2	6.0/02.0	39063
1998 SK ₄₈	2000 03 27.9	12 27.68	-03 20.3	18.2	-0.92	+	4.7	9.8/17.0	40337
(13936)	2000 03 27.9	12 27.75	+31 43.9	16.8	-0.84	+	2.2	9.3/15.0	39033
1998 TF ₃₃	2000 03 27.9	12 27.77	-03 37.2	16.6	-0.87	+	9.4	10.7/17.0	40343
1998 UY ₂₂	2000 03 27.9	12 27.85	+00 23.1	19.2	-1.00	+	5.3	1.1/26.9	40344
1991 VY ₂	2000 03 27.9	12 27.88	-14 53.9	17.2	-0.98	+	6.0	4.4/31.7	40298
(10025)	2000 03 27.9	12 27.93	-04 38.5	16.7	-0.79	+	4.8	0.5/28.5	33864
1998 SA ₇₃	2000 03 28.0	12 28.18	+02 34.9	18.0	-1.03	+	4.2	2.0/26.4	40339
1993 FM ₆₂	2000 03 28.0	12 28.38	+03 22.0	18.1	-0.97	+	6.0	2.1/26.0	39949
1994 QJ	2000 03 28.0	12 28.38	+29 18.2	19.0	-0.93	+	7.7	9.6/15.4	25084
2000 FS ₄₄	2000 03 28.0	12 28.43	+07 20.6	16.6	-1.02	-	0.2	4.0/25.3	40252
1998 RA ₅₈	2000 03 28.0	12 28.45	-00 35.5	18.8	-0.94	+	6.9	0.9/27.3	40334
1999 AC ₃	2000 03 28.1	12 28.52	+15 09.1	18.8	-0.81	+	7.1	5.2/21.5	40351
1997 RB ₉	2000 03 28.1	12 28.56	-07 37.4	17.6	-0.90	+	4.4	1.4/29.5	40319
1993 UZ ₆	2000 03 28.1	12 28.57	+04 43.1	17.9	-0.80	+	6.2	2.7/25.5	40304
2000 EQ ₈₇	2000 03 28.1	12 28.60	+03 47.9	17.1	-0.98	+	1.5	2.3/26.2	40172
2000 CF ₅₈	2000 03 28.1	12 28.62	+12 51.0	16.7	-0.89	+	7.8	6.5/22.5	40453
(9978)	2000 03 28.1	12 28.62	-17 48.1	17.5	-0.80	+	4.2	4.2/02.0	39510
(13911)	2000 03 28.1	12 28.65	-02 12.9	16.2	-0.89	+	6.8	0.4/27.9	39026
1981 ED ₁₅	2000 03 28.1	12 28.70	-08 31.5	17.9	-0.93	+	5.6	1.9/29.9	40290
2000 EP ₄₀	2000 03 28.2	12 28.88	+00 05.0	17.8	-0.81	+	4.6	1.0/27.2	40144
(14043)	2000 03 28.2	12 28.92	+07 06.5	17.5	-1.05	+	4.9	4.1/25.2	39063
2000 FK ₂₁	2000 03 28.2	12 28.99	+11 37.8	18.2	-0.99	+	2.0	4.8/23.9	40228
2000 EW ₂₅	2000 03 28.2	12 29.01	-01 57.8	18.4	-0.72	+	6.0	0.3/27.9	40135
2000 FT ₄₄	2000 03 28.2	12 29.03	+07 49.8	17.7	-1.01	+	4.3	4.6/24.9	40252
2000 FX	2000 03 28.2	12 29.05	-00 42.5	18.5	-0.89	+	6.7	0.8/27.5	40217
1998 VN ₂₄	2000 03 28.2	12 29.14	+18 35.7	17.2	-0.95	+	2.3	7.2/21.6	40038
2000 DR ₈	2000 03 28.3	12 29.10	+03 29.7	16.6	-1.01	+	3.8	2.4/26.3	40112
2000 ES ₆₇	2000 03 28.3	12 29.18	-03 33.9	18.3	-1.00	+	5.2	0.1/28.4	40164
2000 ED ₆₉	2000 03 28.3	12 29.29	-02 13.2	18.3	-1.02	+	3.6	0.3/28.1	40165
2000 EB ₄₆	2000 03 28.3	12 29.30	-07 28.2	18.1	-1.03	+	4.0	1.6/29.6	40147
(9740)	2000 03 28.3	12 29.34	+03 17.5	17.2	-0.99	+	4.4	2.3/26.4	33197
1998 YL ₃	2000 03 28.3	12 29.37	-03 03.5	18.3	-0.72	+	4.4	0.0/28.3	40350
(14514)	2000 03 28.3	12 29.44	-07 12.4	16.6	-0.77	+	9.1	1.6/29.8	39851
2000 EU ₆₈	2000 03 28.3	12 29.50	-01 40.2	18.4	-0.75	+	4.3	0.5/27.9	40165
1002 T-2	2000 03 28.4	12 29.46	-03 11.6	18.2	-0.97	+	5.6	0.0/28.4	40532
(14762)	2000 03 28.4	12 29.57	-00 51.9	17.8	-0.94	+	5.2	0.7/27.7	39922
(13953)	2000 03 28.4	12 29.57	+15 08.6	17.2	-0.94	+	3.8	6.7/22.7	39038
1998 SK ₁₂₈	2000 03 28.4	12 29.58	+00 09.7	18.7	-0.92	+	6.8	1.2/27.3	40013
1991 PU ₂	2000 03 28.4	12 29.59	-20 40.8	18.8	-0.81	+	2.7	4.2/03.1	34287
2000 EW ₆₈	2000 03 28.4	12 29.61	-00 18.9	18.7	-0.81	+	8.1	1.1/27.4	40165
2000 ET ₄₅	2000 03 28.4	12 29.62	-03 36.9	16.7	-0.81	+	4.5	0.1/28.6	40147
1997 PS	2000 03 28.4	12 29.62	-18 20.5	19.5	-0.89	+	3.8	4.3/02.2	35700
2000 ER ₁₃₄	2000 03 28.4	12 29.75	+02 49.4	18.3	-0.88	+	5.6	1.9/26.5	40200

(10376)	2000 03 28.4	12 29.84 +13 17.8 18.3	-0.91 + 3.4	4.7/23.2	34154
2000 CS ₆₆	2000 03 28.4	12 29.90 -04 35.4 16.9	-1.09 + 2.3	0.6/28.9	40454
1999 BZ ₂₀	2000 03 28.5	12 29.89 +14 16.6 18.1	-0.83 + 5.5	5.0/22.5	40069
1998 XS ₉₃	2000 03 28.5	12 29.91 -17 48.0 17.2	-0.84 + 8.0	4.5/02.7	40057
1978 VS ₈	2000 03 28.5	12 29.92 -03 02.6 17.4	-0.86 + 6.4	0.1/28.5	40289
(14473)	2000 03 28.5	12 29.98 -01 51.7 16.4	-0.69 +10.7	0.5/28.0	39840
1998 XY ₁₆	2000 03 28.5	12 30.03 -00 13.8 17.7	-0.71 + 5.9	0.8/27.5	40349
1989 SY ₁₃	2000 03 28.5	12 30.09 -24 43.7 17.1	-0.95 + 2.9	8.1/04.5	38754
1993 TV ₂₂	2000 03 28.5	12 30.15 -01 43.8 18.2	-0.77 + 9.1	0.5/28.0	39953
(14073)	2000 03 28.5	12 30.25 +01 01.5 16.5	-0.78 + 8.7	1.8/27.1	39071
3039 P-L	2000 03 28.6	12 30.20 -12 10.7 18.9	-0.79 + 5.7	2.4/31.6	40530
1998 XB ₅	2000 03 28.6	12 30.23 -02 07.6 17.8	-0.93 + 8.5	0.4/28.2	40349
(9999)	2000 03 28.6	12 30.28 +01 40.8 17.1	-0.81 + 4.9	1.5/27.0	33670
2000 CS ₉₄	2000 03 28.6	12 30.43 +03 03.5 17.0	-0.77 + 8.3	1.9/26.4	40458
1998 SU ₃	2000 03 28.6	12 30.62 -02 14.9 19.4	-0.96 + 5.4	0.4/28.4	34592
(14317)	2000 03 28.7	12 30.62 -10 42.3 17.9	-0.97 + 4.2	2.5/30.9	39794
2137 P-L	2000 03 28.7	12 30.71 -08 17.6 21.2	-0.91 + 8.7	1.9/30.4	39494
1998 TO ₁₆	2000 03 28.7	12 30.75 -09 34.5 19.6	-0.94 + 7.7	2.2/30.8	35721
(14353)	2000 03 28.8	12 30.91 -07 39.7 17.4	-0.89 + 5.5	1.6/30.2	39805
1998 SX ₅₆	2000 03 28.8	12 31.08 -01 52.6 18.8	-0.97 + 5.2	0.5/28.4	40338
(14769)	2000 03 28.8	12 31.15 -01 14.1 17.1	-0.86 + 8.9	0.8/28.1	39924
(10573)	2000 03 28.8	12 31.18 +03 13.6 17.7	-0.81 +11.8	2.3/26.4	34455
(14194)	2000 03 28.8	12 31.19 -15 38.9 15.7	-0.87 + 3.2	4.6/01.6	39107
1998 WR ₁₂	2000 03 28.8	12 31.30 -12 57.9 19.7	-0.96 + 6.7	3.4/01.0	34030
1994 YY ₃	2000 03 28.8	12 31.34 -04 59.2 18.2	-0.86 + 5.4	0.5/29.4	39959
1997 TM ₁	2000 03 28.8	12 31.36 -03 14.0 18.0	-0.93 + 6.4	0.1/28.9	40320
1998 RJ ₄	2000 03 28.9	12 31.33 +01 15.1 17.9	-0.89 +22.3	1.9/27.0	40333
2000 EA ₇₅	2000 03 28.9	12 31.36 -01 15.1 18.5	-0.84 + 6.1	0.7/28.2	40168
2000 DG ₁	2000 03 28.9	12 31.41 +01 41.7 17.9	-0.84 + 5.3	1.6/27.3	40459
2660 P-L	2000 03 28.9	12 31.50 -02 42.7 18.2	-0.75 + 5.6	0.2/28.7	40530
2000 ER ₆₇	2000 03 28.9	12 31.59 -03 08.6 18.2	-0.81 + 6.0	0.1/28.9	40164
1998 UE ₂₃	2000 03 28.9	12 31.59 -06 29.5 17.6	-1.07 + 4.8	1.1/29.9	40344
(11332)	2000 03 28.9	12 31.59 -04 13.4 17.4	-0.84 + 6.7	0.3/29.2	39510
1996 NG	2000 03 28.9	12 31.59 +05 48.7 18.6	-0.71 + 4.8	2.3/25.8	40313
1992 BW ₃	2000 03 28.9	12 31.65 +04 45.8 18.8	-1.01 + 4.9	2.8/26.5	40299
2000 AJ ₂₄₆	2000 03 28.9	12 31.67 -02 33.3 15.5	-1.11 - 0.4	0.3/28.8	40445
2000 EC ₂₆	2000 03 28.9	12 31.71 -01 14.5 16.6	-0.86 + 8.7	0.8/28.2	40135
2000 FZ ₃₃	2000 03 29.0	12 31.67 +00 47.0 18.5	-0.75 + 5.4	1.1/27.6	40241
2000 FA ₁₈	2000 03 29.0	12 31.70 +14 24.4 18.3	-0.84 + 6.6	5.8/22.8	40226
2000 EN ₁₃₅	2000 03 29.0	12 31.71 +03 52.1 18.0	-0.90 + 6.0	3.0/26.6	40201
1994 WN ₃	2000 03 29.0	12 31.73 +05 24.2 17.8	-0.85 + 6.4	2.7/26.1	40307
2214 P-L	2000 03 29.0	12 31.75 -07 35.2 20.2	-0.88 + 5.0	1.4/30.3	38732
1994 UW ₁	2000 03 29.0	12 31.81 -10 03.1 19.7	-0.84 +15.9	2.1/31.7	25084
1998 XZ ₈₁	2000 03 29.0	12 31.82 -02 26.8 16.9	-0.70 + 8.3	0.3/28.7	40350
2000 EN ₆₉	2000 03 29.0	12 31.82 -03 50.7 17.3	-1.07 + 5.0	0.2/29.2	40166
1998 WL ₉	2000 03 29.0	12 31.86 -09 43.9 18.3	-0.78 + 4.1	2.0/31.1	40347
1988 RR ₁₁	2000 03 29.0	12 31.89 -02 17.2 19.0	-1.03 + 6.3	0.4/28.7	39937
1998 XN ₂₁	2000 03 29.0	12 31.90 +00 22.2 18.5	-0.71 + 4.7	0.9/27.8	40349
2000 FF ₂₂	2000 03 29.0	12 31.93 +08 09.1 18.3	-0.76 + 4.3	3.6/25.2	40229
1998 SK ₁₀₈	2000 03 29.0	12 31.97 -08 42.5 17.5	-0.96 + 8.1	2.2/30.8	40010
1990 SK ₈	2000 03 29.0	12 32.02 +03 26.2 20.0	-0.89 + 6.0	2.2/26.9	23859

(14447)	2000 03 29.1	12 32.01 +09 22.8 18.4	-0.72 + 4.8	3.0/24.7	39833
1997 TX ₁₈	2000 03 29.1	12 32.02 +01 01.3 18.4	-0.79 + 5.6	1.4/27.6	40320
1999 AY	2000 03 29.1	12 32.13 -13 11.0 17.4	-0.83 + 3.0	2.9/01.1	40063
1998 SQ ₁₃₅	2000 03 29.1	12 32.15 +03 18.4 18.4	-1.05 + 4.8	2.6/27.1	35719
4800 P-L	2000 03 29.1	12 32.15 -01 08.6 19.1	-0.93 + 6.9	0.8/28.4	39647
2000 EO ₁₃₅	2000 03 29.1	12 32.20 +04 55.5 18.6	-0.86 + 4.7	2.4/26.4	40201
2343 T-3	2000 03 29.1	12 32.23 -04 21.0 19.9	-0.78 + 4.7	0.2/29.4	30776
1998 WT ₃	2000 03 29.1	12 32.26 +10 10.7 17.9	-0.98 + 3.9	4.4/25.0	40042
1991 XF	2000 03 29.1	12 32.28 +07 09.3 17.3	-1.00 + 4.2	4.2/26.0	40298
1984 SL ₄	2000 03 29.1	12 32.30 -07 47.4 17.8	-1.08 + 4.7	1.7/30.4	40291
2000 EM ₆₉	2000 03 29.1	12 32.30 -05 07.7 17.1	-0.98 0.0	0.6/29.6	40484
1998 SY ₅₆	2000 03 29.1	12 32.32 +01 53.3 17.3	-0.90 + 8.1	2.1/27.4	40007
2000 EU ₆₇	2000 03 29.1	12 32.39 -04 11.7 18.3	-0.84 + 6.5	0.2/29.4	40164
2000 ED ₄₆	2000 03 29.1	12 32.43 -06 50.8 17.7	-0.84 + 2.5	1.0/30.2	40148
1998 QD ₁₀₄	2000 03 29.2	12 32.41 +08 09.1 16.7	-0.85 + 7.5	4.5/25.2	40333
1996 HN ₂₁	2000 03 29.2	12 32.47 +11 19.5 18.4	-0.91 + 2.6	4.5/24.7	40312
2237 T-2	2000 03 29.2	12 32.52 -04 57.1 18.4	-0.85 + 6.8	0.5/29.7	40533
2000 FM ₂₁	2000 03 29.2	12 32.59 +11 16.9 18.6	-0.84 + 3.8	4.2/24.5	40229
1994 WN ₁	2000 03 29.2	12 32.65 +00 19.5 17.7	-0.93 + 5.6	1.3/28.0	39959
1995 JH ₁	2000 03 29.2	12 32.71 -00 52.2 18.3	-0.74 + 5.1	0.7/28.4	39961
2000 CO ₉₃	2000 03 29.2	12 32.73 +05 11.8 16.4	-0.92 + 6.0	4.0/26.4	40457
1998 TP ₁₄	2000 03 29.2	12 32.78 -02 27.3 18.0	-1.00 + 5.8	0.5/29.0	40020
3530 T-3	2000 03 29.3	12 32.80 -05 01.0 18.4	-0.78 + 5.0	0.4/29.8	40535
(10052)	2000 03 29.3	12 32.82 -04 28.6 17.7	-0.79 + 4.7	0.3/29.6	38749
4205 T-1	2000 03 29.3	12 32.85 +03 17.0 17.0	-0.79 + 8.8	2.1/26.9	40278
2000 ES ₁₃₄	2000 03 29.3	12 32.87 +02 51.2 18.4	-0.90 + 5.5	2.8/27.3	40200
2000 EN ₄₃	2000 03 29.3	12 32.98 +00 11.4 17.9	-0.88 + 9.3	1.6/28.1	40146
6631 P-L	2000 03 29.4	12 33.10 +01 53.0 19.1	-0.93 + 7.6	1.9/27.6	40531
(14062)	2000 03 29.4	12 33.13 -01 07.1 16.8	-0.93 + 4.2	1.1/28.7	39068
(14751)	2000 03 29.4	12 33.17 -01 17.6 19.1	-0.75 + 5.1	0.7/28.7	39919
(9923)	2000 03 29.4	12 33.17 -03 07.1 17.7	-0.86 + 3.9	0.2/29.3	33653
1998 VE ₄	2000 03 29.4	12 33.18 -06 16.8 17.6	-0.85 + 6.7	0.9/30.3	40032
1980 PC ₃	2000 03 29.4	12 33.20 +18 21.5 18.0	-0.92 + 3.3	6.2/22.2	40289
1998 SP ₁₅₆	2000 03 29.4	12 33.20 -06 49.6 18.5	-0.96 + 6.2	1.2/30.5	40342
2000 EX ₄₀	2000 03 29.4	12 33.23 -01 00.8 17.9	-0.78 + 5.7	0.8/28.6	40144
1981 EQ ₄₇	2000 03 29.4	12 33.23 -01 05.0 18.4	-0.91 + 6.1	0.9/28.6	40291
1998 VV ₇	2000 03 29.4	12 33.24 -09 46.3 17.1	-1.03 + 4.1	2.6/31.3	40035
2000 FP ₁₇	2000 03 29.4	12 33.30 +08 26.9 17.8	-0.79 + 3.1	3.3/25.6	40226
(14407)	2000 03 29.4	12 33.45 -00 43.7 18.2	-0.76 + 5.1	0.8/28.5	39821
(14470)	2000 03 29.5	12 33.46 -05 40.5 17.2	-0.93 + 3.7	0.7/30.1	39839
(14335)	2000 03 29.5	12 33.50 -00 26.1 17.3	-0.94 + 8.1	1.1/28.5	39799
2000 EO ₄₆	2000 03 29.5	12 33.59 -03 40.3 17.6	-0.88 + 5.3	0.0/29.5	40149
(13947)	2000 03 29.5	12 33.68 +05 04.4 17.4	-0.93 + 4.7	2.9/26.9	39036
2000 EJ ₇₀	2000 03 29.5	12 33.72 -02 32.0 18.0	-0.80 + 5.5	0.3/29.2	40167
1990 RL ₂	2000 03 29.5	12 33.72 +00 26.8 17.4	-0.90 + 9.9	1.4/28.1	39940
1998 YH ₄	2000 03 29.5	12 33.84 +11 21.7 17.2	-0.96 + 8.0	6.0/24.3	40350
2000 CN ₉₃	2000 03 29.6	12 33.85 +06 16.7 16.3	-0.94 + 6.8	4.2/26.3	40457
1998 XY ₉₁	2000 03 29.6	12 33.93 -26 24.3 18.5	-0.77 + 5.7	6.3/07.0	35728
2000 FU ₁₇	2000 03 29.6	12 33.95 +13 23.3 17.6	-0.81 + 3.1	5.4/24.1	40226
1999 AL	2000 03 29.6	12 33.97 +03 07.2 18.3	-0.70 + 5.5	1.7/27.3	40063
1998 SQ ₇₁	2000 03 29.6	12 33.98 +00 11.2 18.6	-1.06 + 4.7	1.6/28.5	40007

2000 EC ₄₆	2000 03 29.6	12 34.06	-04 38.4	16.6	-0.76	+11.5	0.3/30.0	40147
2000 FG ₃₂	2000 03 29.6	12 34.11	+02 18.2	18.1	-0.95	+ 8.2	2.3/27.7	40238
(14469)	2000 03 29.6	12 34.11	-12 49.3	18.2	-0.95	+ 3.0	2.6/01.4	39839
2000 EG ₄₆	2000 03 29.6	12 34.19	-06 16.9	17.8	-0.93	+ 2.1	0.9/30.4	40148
(10082)	2000 03 29.6	12 34.22	-05 59.7	18.2	-0.98	+ 4.7	0.8/30.4	33877
2000 CW ₁₀₂	2000 03 29.7	12 34.22	-01 32.3	16.8	-0.85	+ 7.2	0.9/29.0	40458
1989 AD ₇	2000 03 29.7	12 34.29	+08 36.3	17.3	-0.72	+ 6.3	3.4/25.4	40293
(13543)	2000 03 29.7	12 34.30	+12 39.9	16.1	-0.82	+ 7.0	7.0/23.9	38327
1994 VJ	2000 03 29.7	12 34.31	-05 44.1	18.8	-0.91	+ 5.6	0.7/30.4	40307
2000 EK ₄₆	2000 03 29.7	12 34.33	-04 51.8	17.8	-0.64	+ 3.7	0.3/30.1	40148
2000 EB ₄₁	2000 03 29.7	12 34.35	-01 24.8	17.8	-0.95	+ 4.3	0.8/29.0	40145
1991 GA ₁₀	2000 03 29.7	12 34.37	+23 36.2	15.7	-0.81	+ 6.3	9.6/18.9	40296
2000 EA ₆₉	2000 03 29.7	12 34.40	-00 58.3	18.5	-0.72	+ 4.4	0.7/28.8	40165
1968 OB	2000 03 29.7	12 34.49	-25 07.5	18.3	-0.76	+ 3.9	5.1/06.2	34171
2000 CB ₆₇	2000 03 29.8	12 34.57	-06 30.2	16.5	-1.08	+ 1.3	1.3/30.5	40454
(14357)	2000 03 29.8	12 34.66	-01 21.8	18.1	-0.78	+ 3.8	0.6/29.1	39806
(14471)	2000 03 29.8	12 34.78	+01 20.1	18.2	-0.79	+ 8.2	1.4/28.1	39839
1998 SO ₂₇	2000 03 29.8	12 34.90	+26 17.1	18.7	-1.21	+ 0.5	9.8/21.2	33757
2000 EW ₉₇	2000 03 29.9	12 34.95	+09 52.7	16.2	-1.05	+ 0.7	5.3/26.1	40181
1998 SG ₇₄	2000 03 29.9	12 35.02	+03 10.6	18.2	-0.97	+ 4.7	2.6/27.8	40339
1998 UL ₇	2000 03 29.9	12 35.09	+08 17.7	17.9	-0.98	+ 4.8	4.2/26.2	40026
(14387)	2000 03 29.9	12 35.12	-05 51.4	17.5	-1.03	+ 3.5	0.8/30.5	39815
1998 SH ₁₂₄	2000 03 29.9	12 35.19	-00 05.9	18.1	-1.01	+ 4.0	1.3/28.9	40012
2000 EH ₃₄	2000 03 29.9	12 35.28	+17 47.3	16.1	-1.01	+ 0.9	7.6/23.9	40476
1991 PO ₁₂	2000 03 29.9	12 35.30	+02 29.0	16.9	-0.95	+ 7.6	2.3/27.9	40297
1999 YH ₇	2000 03 30.0	12 35.29	+14 23.7	16.5	-0.96	+ 3.8	7.8/24.3	40426
2000 EQ ₄₆	2000 03 30.0	12 35.35	-02 43.6	17.2	-0.88	+ 7.2	0.5/29.7	40149
2000 EQ ₆₉	2000 03 30.0	12 35.39	-05 18.2	16.7	-1.10	+ 1.0	0.7/30.4	40484
6511 P-L	2000 03 30.0	12 35.41	-03 33.4	20.9	-0.91	+ 5.7	0.1/29.9	27116
1998 ST ₁₃₁	2000 03 30.0	12 35.42	-14 46.4	15.6	-0.98	+ 4.6	5.3/02.4	40341
2000 FJ ₃₂	2000 03 30.0	12 35.44	+00 46.6	17.9	-0.92	+ 6.0	1.8/28.6	40238
1998 SA ₂₅	2000 03 30.0	12 35.47	+04 50.3	16.5	-0.91	+ 7.8	3.4/27.1	40337
1998 VG ₆	2000 03 30.0	12 35.47	-04 00.0	18.6	-0.98	+ 4.2	0.1/30.1	40034
1996 HW ₈	2000 03 30.0	12 35.48	-08 07.3	17.8	-0.81	+ 7.6	1.4/31.5	39967
1998 SE ₁₀₂	2000 03 30.0	12 35.49	-02 24.1	17.5	-1.05	+ 4.2	0.6/29.6	40339
(9850)	2000 03 30.0	12 35.54	-12 42.4	17.6	-0.93	+ 6.9	3.2/02.0	33457
1998 QV ₉₁	2000 03 30.0	12 35.61	-02 53.6	18.4	-0.92	+ 6.6	0.3/29.8	40332
2000 ES ₁₃₅	2000 03 30.0	12 35.62	+08 12.3	18.2	-0.95	+ 3.2	3.6/26.4	40201
1990 VK ₄	2000 03 30.1	12 35.74	+03 03.7	18.7	-0.86	+ 6.5	2.2/27.8	40296
(14645)	2000 03 30.1	12 35.75	-11 09.5	15.9	-0.85	+ 7.7	3.0/01.6	39889
2000 FQ ₂₆	2000 03 30.1	12 35.75	-02 41.2	17.9	-0.85	+ 4.8	0.4/29.8	40232
2000 EF ₄₆	2000 03 30.1	12 35.80	-05 06.2	17.8	-0.76	+ 4.1	0.4/30.5	40148
2000 CT ₉₄	2000 03 30.1	12 35.81	+03 44.5	17.0	-0.83	+ 8.8	3.2/27.5	40458
(13924)	2000 03 30.1	12 35.89	+07 03.7	17.1	-0.87	+ 7.5	3.7/26.4	39030
1998 VC ₄₄	2000 03 30.1	12 35.90	-02 12.1	17.9	-0.86	+ 7.0	0.5/29.6	40346
1998 SU ₁₃₉	2000 03 30.1	12 35.90	-11 49.5	18.2	-0.98	+ 7.0	2.9/01.7	40016
(14535)	2000 03 30.1	12 35.95	+07 13.9	17.2	-0.66	+11.0	3.2/25.8	39857
2000 ER ₅₈	2000 03 30.1	12 36.00	-01 05.2	17.8	-0.88	+ 3.7	0.9/29.3	40159
(13898)	2000 03 30.1	12 36.09	+05 36.8	16.6	-0.93	+ 6.4	4.0/27.1	38427
1998 SY ₉	2000 03 30.2	12 36.05	-05 26.3	18.6	-0.96	+ 6.6	0.6/30.7	40001
1998 XO ₁₁	2000 03 30.2	12 36.06	-04 52.4	17.1	-0.82	+ 4.7	0.3/30.5	40349

(13925)	2000 03 30.2	12 36.19	+09 05.8	17.1	-0.72	+ 6.9	3.8/25.5	39030
4310 T-3	2000 03 30.2	12 36.27	+05 57.2	16.5	-1.00	+ 4.3	4.3/27.2	40535
1998 SW ₄	2000 03 30.2	12 36.30	+00 27.1	18.2	-1.07	+ 4.5	1.6/29.0	40000
2000 EP ₉₆	2000 03 30.2	12 36.32	+05 39.5	17.3	-0.95	+ 4.7	3.4/27.3	40179
1998 SK ₁₅₁	2000 03 30.2	12 36.34	-01 41.1	17.9	-0.98	+ 4.6	0.9/29.6	40342
(10245)	2000 03 30.3	12 36.37	-05 43.2	16.2	-0.74	+ 8.9	0.6/31.0	33917
1998 WF ₁₂	2000 03 30.3	12 36.40	-10 02.5	19.1	-0.89	+ 7.3	2.1/01.3	40045
1998 XR ₄	2000 03 30.3	12 36.43	-11 42.6	17.4	-0.87	+ 4.4	2.5/01.8	40349
(13933)	2000 03 30.3	12 36.71	+04 25.9	16.9	-0.88	+ 3.6	2.6/27.8	39033
1998 ST ₅₂	2000 03 30.4	12 36.89	-09 09.1	17.0	-0.84	+ 7.0	2.1/01.2	40338
2000 EU ₁₃₄	2000 03 30.4	12 37.04	+03 13.7	17.2	-0.77	+ 8.4	2.7/27.9	40200
(13614)	2000 03 30.4	12 37.11	+15 30.3	16.2	-1.04	- 0.4	8.1/25.3	38347
1997 VV	2000 03 30.4	12 37.17	-18 27.8	16.6	-0.71	+ 6.0	3.9/04.6	40321
1991 RX ₂₁	2000 03 30.5	12 37.13	+06 43.6	17.4	-0.67	+ 7.1	2.8/26.6	40297
2000 EZ ₁₃₅	2000 03 30.5	12 37.25	+07 15.0	17.4	-1.25	- 0.6	3.8/27.9	40202
2000 FN ₁₈	2000 03 30.5	12 37.28	+10 27.7	18.3	-0.81	+ 6.3	4.7/25.6	40226
1994 CF ₆	2000 03 30.5	12 37.29	+09 03.8	18.1	-0.67	+ 7.6	4.3/25.7	39955
2000 EL ₆₉	2000 03 30.5	12 37.36	-04 34.7	17.5	-0.83	+ 6.4	0.2/30.7	40166
1994 AN ₉	2000 03 30.5	12 37.51	+32 55.5	17.4	-0.79	+ 4.5	10.2/15.8	40304
2000 EZ ₄₆	2000 03 30.5	12 37.52	-06 07.9	18.4	-0.84	+ 6.1	0.7/31.3	40150
1998 TF ₆	2000 03 30.5	12 37.54	+00 34.0	18.2	-0.93	+ 5.3	1.6/29.2	40020
1998 XQ ₇₇	2000 03 30.6	12 37.57	+02 04.5	17.4	-0.93	+ 7.7	2.1/28.6	40055
1989 US ₁	2000 03 30.6	12 37.75	+04 57.2	17.8	-0.92	+ 2.8	2.6/28.0	40294
2000 FO ₂₁	2000 03 30.6	12 37.86	+08 21.2	18.3	-0.79	+10.6	4.3/26.0	40229
(14545)	2000 03 30.6	12 37.88	+00 26.1	17.9	-0.71	+ 7.0	1.3/29.1	39860
2000 ES ₄₆	2000 03 30.6	12 37.90	-02 43.2	17.6	-0.87	+ 7.9	0.5/30.2	40149
1995 EP ₁	2000 03 30.7	12 38.00	-12 11.8	16.0	-0.97	+ 0.6	3.0/01.9	40308
(14413)	2000 03 30.7	12 38.19	-08 57.0	17.6	-0.94	+ 7.6	1.7/01.4	39822
1995 AE ₄	2000 03 30.8	12 38.22	+05 01.7	18.7	-0.86	+ 5.2	2.7/27.9	40307
2000 EF ₈₆	2000 03 30.8	12 38.33	+06 04.5	16.3	-0.84	+ 9.2	4.5/27.1	40485
2000 EJ ₁₄₇	2000 03 30.8	12 38.36	-09 32.9	16.8	-1.06	+ 3.2	2.4/01.4	40207
1994 PW ₁₃	2000 03 30.8	12 38.43	-12 51.2	17.2	-1.04	+ 3.5	3.5/02.4	39956
1998 UX ₂	2000 03 30.8	12 38.44	-11 24.0	17.9	-0.88	+ 8.7	2.8/02.4	40024
(14561)	2000 03 30.8	12 38.46	-01 19.4	18.2	-0.69	+ 4.7	0.7/29.9	39864
(10211)	2000 03 30.8	12 38.52	-02 45.7	16.2	-0.90	+ 7.2	0.6/30.4	33909
1993 TL ₃₂	2000 03 30.8	12 38.54	+00 05.6	18.3	-0.83	+ 5.5	1.3/29.5	40304
2000 EZ ₆₉	2000 03 30.8	12 38.60	-05 04.2	18.0	-0.88	+ 8.7	0.3/31.2	40166
2000 EK ₇₀	2000 03 30.9	12 38.59	-03 05.2	17.9	-0.73	+ 5.1	0.3/30.6	40167
2000 FZ ₂₅	2000 03 30.9	12 38.59	+00 43.7	17.1	-1.04	+ 3.8	1.8/29.5	40231
2000 EJ ₅₉	2000 03 30.9	12 38.66	-01 43.3	18.3	-0.78	+ 9.1	0.8/30.1	40159
1997 SN ₁₁	2000 03 30.9	12 38.67	-03 53.8	20.4	-0.74	+ 4.7	0.1/30.8	40319
2000 EA ₁₂₃	2000 03 30.9	12 38.76	+16 20.3	17.0	-0.66	+17.5	8.5/21.7	40490
2088 P-L	2000 03 30.9	12 38.79	-09 07.7	18.4	-0.84	+ 4.6	1.6/01.5	40272
(11350)	2000 03 30.9	12 38.82	-02 28.9	17.5	-0.76	+ 5.5	0.5/30.4	35578
2000 ES ₆₉	2000 03 30.9	12 38.85	-04 37.2	17.4	-0.93	+ 4.2	0.2/31.1	40484
1993 TO ₃₆	2000 03 30.9	12 38.92	-27 38.7	17.9	-1.04	+ 1.9	7.0/06.9	35689
2000 DG ₁₁₀	2000 03 30.9	12 38.96	+02 45.7	16.8	-1.22	- 2.1	2.6/29.4	40471
2000 FQ ₃₂	2000 03 31.0	12 39.18	+01 59.2	17.6	-0.92	+ 6.9	2.3/29.0	40239
1996 GK	2000 03 31.0	12 39.21	-04 14.9	18.3	-0.87	+ 6.4	0.0/31.1	40312
1992 GV ₃	2000 03 31.0	12 39.29	+03 22.9	16.7	-1.00	+ 1.9	2.9/29.0	40299
1996 NU	2000 03 31.0	12 39.30	+10 24.8	16.4	-0.66	+ 9.0	4.4/25.4	39972

2000 EV ₄₆	2000 03 31.0	12 39.34	-05 34.6	18.3	-0.80	+	5.3	0.4/31.5	40149
1984 QU	2000 03 31.1	12 39.30	-07 03.8	18.9	-1.01	+	4.8	0.9/32.0	34003
1294 T-1	2000 03 31.1	12 39.30	-05 29.2	18.2	-0.98	+	4.9	0.5/31.5	40278
2000 EH ₄₁	2000 03 31.1	12 39.32	-01 17.9	17.6	-0.89	+	6.7	1.1/30.2	40145
1999 CY ₈₂	2000 03 31.1	12 39.36	-07 19.9	18.3	-0.79	+	3.1	0.8/01.1	40352
2000 EL ₅₈	2000 03 31.1	12 39.55	-00 09.5	17.4	-0.76	+	8.7	1.4/29.7	40159
1988 PC ₂	2000 03 31.1	12 39.56	+00 38.3	16.8	-0.79	+	8.7	1.5/29.4	39936
2000 FR ₃₂	2000 03 31.1	12 39.57	+01 20.1	17.0	-0.95	+	3.1	2.4/29.5	40239
(14540)	2000 03 31.1	12 39.58	-03 02.6	17.0	-0.77	+	5.5	0.4/30.8	39858
1998 UL ₄₂	2000 03 31.1	12 39.72	-07 52.0	18.8	-0.92	+	8.4	1.3/01.4	40031
2000 FS ₃₂	2000 03 31.1	12 39.74	+01 47.4	17.9	-1.00	+	3.1	2.6/29.5	40239
1998 TQ ₃	2000 03 31.2	12 39.65	+06 25.4	17.6	-1.06	+	2.3	3.6/28.2	40342
6061 P-L	2000 03 31.2	12 39.67	-05 25.3	18.3	-0.98	+	5.3	0.4/31.6	40531
(14501)	2000 03 31.2	12 39.77	-06 03.1	17.9	-1.07	+	4.4	0.7/31.7	39847
1975 SM ₁	2000 03 31.2	12 39.80	-01 30.3	19.7	-0.89	+	6.4	0.9/30.3	40288
(14448)	2000 03 31.2	12 39.81	-01 58.7	17.8	-0.73	+	4.8	0.6/30.5	39833
1994 CS ₉	2000 03 31.2	12 39.86	+00 39.4	17.6	-0.74	+	4.8	1.7/29.6	39955
(14188)	2000 03 31.2	12 39.86	-18 13.8	17.4	-0.84	+	3.5	4.5/04.7	39105
2000 EB ₄₇	2000 03 31.2	12 39.90	-04 40.8	17.3	-0.79	+	9.6	0.1/31.4	40150
2000 EB ₂₀	2000 03 31.2	12 39.92	+06 43.4	16.8	-0.72	+	26.3	4.6/26.2	40474
1998 WX ₁₀	2000 03 31.2	12 39.94	-02 02.1	18.9	-0.91	+	6.2	0.7/30.5	40348
2000 ET ₄₇	2000 03 31.2	12 39.99	-06 48.3	17.9	-0.96	+	4.7	0.8/01.0	40151
2000 FS ₂₆	2000 03 31.2	12 40.05	-01 20.5	16.6	-1.00	+	2.5	1.2/30.5	40232
(9746)	2000 03 31.3	12 40.03	+01 22.3	17.5	-1.00	+	6.5	2.0/29.5	33198
2000 EM ₅₈	2000 03 31.3	12 40.07	-01 01.5	17.9	-0.77	+	4.6	1.0/30.2	40159
(14365)	2000 03 31.3	12 40.08	-04 01.1	16.9	-0.95	+	3.7	0.1/31.2	39808
1993 FS ₁₃	2000 03 31.3	12 40.09	+03 21.3	16.6	-1.03	+	4.6	2.9/29.0	40301
1999 AZ ₇	2000 03 31.3	12 40.11	-34 43.3	17.0	-1.02	-	0.4	8.7/09.4	35080
1998 QG ₁₀₀	2000 03 31.3	12 40.12	+04 11.5	19.9	-0.92	+	7.8	3.0/28.5	32987
1996 BA	2000 03 31.3	12 40.25	-13 13.0	17.8	-1.04	+	4.6	3.2/03.0	40311
1998 SN ₆₇	2000 03 31.3	12 40.30	+11 35.2	17.3	-1.07	-	0.5	6.1/27.3	40339
2000 ES ₁₃₃	2000 03 31.3	12 40.34	+09 35.6	18.7	-0.84	+	2.6	4.4/27.0	40199
2000 FU ₂₈	2000 03 31.3	12 40.42	-10 01.4	17.0	-0.90	+	8.1	2.5/02.0	40235
4258 T-2	2000 03 31.4	12 40.41	+00 27.7	17.9	-0.87	+	6.1	1.8/29.8	40533
1994 TQ ₁₆	2000 03 31.4	12 40.43	+00 38.5	18.2	-1.02	+	3.9	1.8/29.9	40306
4316 T-3	2000 03 31.4	12 40.44	+03 14.8	17.8	-0.92	+	4.2	2.7/29.1	33537
(14429)	2000 03 31.4	12 40.46	-13 08.3	16.6	-1.39	-	1.8	3.6/02.4	39827
1996 BX ₄	2000 03 31.4	12 40.47	+03 39.9	18.1	-0.95	+	5.6	2.8/28.9	40311
1993 TD ₂₀	2000 03 31.4	12 40.52	+00 08.2	18.2	-0.86	+	4.9	1.5/30.0	39953
1184 T-2	2000 03 31.4	12 40.59	-01 35.5	17.9	-0.84	+	7.1	1.0/30.5	40532
1998 YK ₁	2000 03 31.4	12 40.61	+00 50.4	17.9	-0.78	+	5.4	1.6/29.7	40350
1998 QK ₆₃	2000 03 31.4	12 40.61	-07 33.7	18.8	-0.99	+	8.6	1.2/01.5	40331
1998 VH ₂₉	2000 03 31.4	12 40.62	+16 51.2	17.9	-0.93	+	2.7	6.9/24.9	34309
(10492)	2000 03 31.4	12 40.62	+06 24.8	17.1	-0.71	+	6.7	3.1/27.6	39510
1998 SA ₄	2000 03 31.4	12 40.65	-02 33.1	18.9	-0.95	+	5.3	0.6/30.9	40000
(14605)	2000 03 31.4	12 40.75	-04 02.7	17.5	-1.04	+	4.5	0.1/31.4	39878
1989 GB	2000 03 31.5	12 40.75	+10 15.8	16.2	-1.13	-	0.1	6.1/27.7	40293
(13565)	2000 03 31.5	12 40.78	+15 33.0	17.3	-0.82	+	2.3	5.7/25.2	38333
2000 FM ₃₂	2000 03 31.5	12 40.84	+01 16.9	17.8	-0.81	+	3.4	1.9/29.7	40239
2000 FN ₃₂	2000 03 31.5	12 40.85	+00 21.7	18.1	-0.92	+	7.7	1.9/29.9	40239
4291 P-L	2000 03 31.5	12 40.98	-06 55.1	18.6	-0.82	+	8.2	0.8/01.4	40274

2000 FY ₂₇	2000 03 31.5	12 41.07	-07 15.5	18.5	-0.83	+	5.0	0.8/01.5	40234
1981 EJ ₃₆	2000 03 31.6	12 41.13	-04 52.9	19.0	-0.93	+	5.3	0.1/31.7	40290
2000 EX ₁₀₄	2000 03 31.6	12 41.17	+10 04.3	18.1	-0.93	+	6.0	6.6/26.7	40184
1998 SJ ₁₁₈	2000 03 31.6	12 41.41	+04 14.1	16.4	-1.63	-	10.0	3.8/30.6	40011
(14478)	2000 03 31.6	12 41.42	-01 02.2	16.8	-0.74	+	5.0	1.1/30.5	39841
2000 EK ₄₁	2000 03 31.6	12 41.42	-02 52.8	17.8	-0.93	+	2.0	0.5/31.2	39492
3160 T-3	2000 03 31.6	12 41.45	-01 05.0	18.6	-0.86	+	5.9	1.1/30.6	40284
1996 DB ₁	2000 03 31.6	12 41.57	-10 29.6	16.7	-1.02	+	3.1	2.4/02.4	39964
1979 MZ ₈	2000 03 31.7	12 41.48	-17 28.6	19.5	-0.83	+	5.2	3.5/05.0	34173
1997 RE ₃	2000 03 31.7	12 41.49	-10 58.3	17.7	-0.77	+	4.2	1.8/02.8	40319
2000 FE ₂₆	2000 03 31.7	12 41.51	-00 15.5	17.1	-1.02	+	4.7	1.6/30.5	40232
(14283)	2000 03 31.7	12 41.53	-04 39.9	17.2	-0.82	+	7.8	0.1/31.8	39131
2000 ET ₆₉	2000 03 31.7	12 41.55	-01 12.2	18.2	-0.75	+	11.2	1.4/30.5	40166
(13944)	2000 03 31.7	12 41.56	+05 13.5	17.0	-0.93	+	5.4	3.3/28.6	39035
2000 EA ₁₀₅	2000 03 31.7	12 41.66	+09 56.2	16.2	-1.04	+	2.2	6.0/27.4	40184
2000 ES ₄₉	2000 03 31.7	12 41.70	-08 33.5	17.2	-1.04	+	1.0	1.5/02.0	40154
(11759)	2000 03 31.7	12 41.76	-05 24.1	18.6	-0.93	+	5.7	0.3/01.0	35900
(11621)	2000 03 31.7	12 41.77	-15 46.4	18.5	-0.79	+	2.6	2.9/04.3	35863
1997 QW ₃	2000 03 31.7	12 41.83	-02 41.0	20.9	-0.71	+	4.6	0.4/31.2	38774
2000 EM ₄₁	2000 03 31.7	12 41.88	-02 02.3	17.7	-0.91	+	6.5	1.0/31.0	40145
(14564)	2000 03 31.8	12 41.97	+03 02.2	16.9	-0.82	+	5.8	2.4/29.3	39865
1993 FC ₇	2000 03 31.8	12 41.99	+00 04.1	18.6	-1.02	+	4.4	1.6/30.5	40301
1993 RS	2000 03 31.8	12 41.99	-25 10.6	16.1	-1.82	-	6.7	10.1/04.1	39520
1997 SM ₁	2000 03 31.8	12 42.02	-07 38.8	15.1	-0.72	+	11.6	1.1/02.0	40319
1991 VQ ₁	2000 03 31.8	12 42.03	+06 39.0	17.1	-0.99	+	5.0	3.7/28.4	40298
1998 SK ₁₀₇	2000 03 31.8	12 42.04	-04 45.0	19.6	-0.93	+	7.7	0.1/31.9	40339
(13567)	2000 03 31.8	12 42.04	+12 30.1	17.0	-0.75	+	4.5	4.6/26.0	38334
1992 CG ₃	2000 03 31.8	12 42.12	-01 42.2	16.7	-0.87	+	8.3	1.0/30.9	40299
1998 WQ ₃	2000 03 31.8	12 42.17	-25 53.2	16.4	-0.91	+	5.3	7.9/08.0	40347
2000 EQ ₁₃₉	2000 03 31.8	12 42.18	+05 38.1	16.7	-0.98	+	3.6	4.1/28.8	40492
3083 T-2	2000 03 31.8	12 42.23	-05 11.8	19.0	-1.04	+	3.6	0.3/01.1	40281
2000 AG ₂₄₆	2000 03 31.8	12 42.23	+00 25.6	16.5	-1.00	+	1.9	1.9/30.5	40096
2000 EK ₁₄₇	2000 03 31.8	12 42.25	-06 45.7	17.2	-0.96	+	7.5	0.9/01.6	40207
1998 VV ₆	2000 03 31.8	12 42.26	-03 37.3	18.4	-0.95	+	6.3	0.3/31.6	40345
(14664)	2000 03 31.8	12 42.28	-21 40.9	17.4	-0.88	+	1.5	4.8/06.0	39894
1995 YM ₁	2000 03 31.8	12 42.29	-16 48.4	17.9	-0.98	+	6.5	4.8/04.9	30784
2000 FV ₃₂	2000 03 31.9	12 42.20	+01 28.1	18.4	-0.97	+	3.8	2.1/30.1	40240
2000 ER ₃₅	2000 03 31.9	12 42.22	+04 21.6	17.1	-0.95	+	7.0	3.2/29.0	40137
1997 SL ₁₀	2000 03 31.9	12 42.23	-03 52.5	18.1	-0.86	+	6.8	0.2/31.7	40319
(10036)	2000 03 31.9	12 42.30	-10 27.3	17.7	-0.93	+	5.2	1.9/02.8	33866
1995 FP ₁₄	2000 03 31.9	12 42.34	+01 06.9	18.5	-0.78	+	4.7	1.6/30.1	40308
1990 QK ₉	2000 03 31.9	12 42.36	+05 46.3	17.4	-0.89	+	8.1	3.9/28.4	40295
2076 P-L	2000 03 31.9	12 42.40	-08 36.2	18.1	-0.93	+	7.9	1.3/02.3	40530
3028 T-2	2000 03 31.9	12 42.46	+00 10.7	18.1	-0.80	+	4.8	1.4/30.4	40281
2000 EC ₄₇	2000 03 31.9	12 42.49	-05 01.0	17.9	-0.79	+	3.3	0.1/01.1	40150
1998 TD ₃₂	2000 03 31.9	12 42.53	-09 52.3	16.8	-0.99	+	4.1	2.2/02.5	40343
2000 CJ ₅₈	2000 03 31.9	12 42.55	+05 44.4	16.5	-1.07	+	3.2	4.6/29.0	40103
2000 GY ₉₇	2000 03 31.9	12 42.61	-13 06.2	16.8	-0.94	+	7.2	3.8/03.8	40269
1998 WH ₅	2000 04 01.0	12 42.59	+05 31.1	17.3	-0.65	+	12.2	3.1/28.0	40347
1998 XB ₅₁	2000 04 01.0	12 42.61	-17 39.6	17.2	-0.83	+	3.4	4.1/05.2	40349
(14767)	2000 04 01.0	12 42.63	-10 23.4	17.1	-1.04	+	6.1	2.2/02.8	39923

2000 EN ₇₀	2000 04 01.0	12 42.68	-01 40.6	18.1	-0.78	+	8.5	1.0/31.0	40167	2000 GG ₁₁₁	2000 04 01.6	12 44.99	-01 07.8	16.4	-1.08	+	4.1	1.6/31.6	40270
(11289)	2000 04 01.0	12 42.69	-00 06.2	18.0	-0.76	+	4.7	1.3/30.6	39510	2000 EH ₄₇	2000 04 01.6	12 45.05	-02 51.1	18.1	-0.71	+	7.2	0.6/32.0	40150
1991 PH ₁₆	2000 04 01.0	12 42.82	-12 12.2	16.8	-1.09	+	3.8	3.0/03.2	39941	(14392)	2000 04 01.6	12 45.20	-09 54.4	16.7	-1.02	+	2.6	2.1/03.1	39816
1998 YJ ₁₀	2000 04 01.0	12 42.91	-23 08.7	19.5	-0.89	+	4.3	5.3/07.1	40060	1998 RU ₇₂	2000 04 01.7	12 45.13	-03 35.3	17.5	-1.00	+	5.0	0.5/01.3	39998
2000 EQ ₁₀₄	2000 04 01.0	12 42.93	+08 01.9	16.7	-0.90	+	5.8	4.8/28.0	40183	2000 ED ₄₇	2000 04 01.7	12 45.19	-03 41.9	16.9	-0.71	+	6.5	0.3/01.3	40150
1998 RH ₆₇	2000 04 01.0	12 42.96	-10 14.1	17.1	-0.96	+	7.4	2.3/02.9	39997	(14048)	2000 04 01.7	12 45.19	-02 32.6	16.5	-0.96	+	5.9	1.0/32.0	39064
1998 SE ₁₁₁	2000 04 01.0	12 43.01	-06 03.4	18.4	-0.94	+	6.6	0.5/01.6	40340	2000 EE ₁₃₄	2000 04 01.7	12 45.28	+04 20.5	18.4	-1.08	-	1.7	3.9/30.6	40199
(14479)	2000 04 01.1	12 42.96	+01 04.7	17.5	-0.75	+	3.8	1.5/30.3	39841	2000 EN ₁₄₇	2000 04 01.7	12 45.45	-07 48.5	17.5	-0.90	+	8.1	1.0/02.8	40207
(14506)	2000 04 01.1	12 42.99	-08 48.1	18.1	-0.95	+	7.1	1.4/02.5	39849	1997 SR ₁₀	2000 04 01.7	12 45.47	-08 07.3	17.0	-1.07	+	0.8	1.2/02.6	40319
1992 OE	2000 04 01.1	12 43.09	-38 57.7	18.7	-1.22	-	1.4	10.2/10.4	34009	2265 T-2	2000 04 01.7	12 45.49	-04 05.3	19.2	-0.94	+	7.1	0.3/01.5	40281
2000 ED ₁₀₈	2000 04 01.1	12 43.13	+05 21.3	17.1	-1.02	+	4.8	3.8/29.2	40186	2000 EM ₄₇	2000 04 01.8	12 45.52	-02 09.5	17.2	-0.85	+	8.6	1.1/31.9	40151
2000 FJ ₃₃	2000 04 01.1	12 43.17	+00 15.3	17.2	-0.85	+	2.4	1.8/30.7	40240	(13990)	2000 04 01.8	12 45.55	-12 44.1	17.5	-1.10	+	3.4	3.3/04.1	39048
1998 NU	2000 04 01.1	12 43.20	-09 15.3	17.9	-0.85	+	6.3	1.4/02.7	40293	1998 SL ₄₃	2000 04 01.8	12 45.57	-06 23.1	20.3	-0.95	+	6.5	0.5/02.3	39237
1992 WK ₁	2000 04 01.1	12 43.29	+21 12.2	17.6	-0.79	+	2.5	6.4/23.6	40300	1998 WC ₂₀	2000 04 01.8	12 45.73	-16 19.7	18.1	-0.83	+	6.0	3.5/05.7	40348
1985 QJ ₅	2000 04 01.1	12 43.33	-10 49.9	18.6	-0.78	+	2.6	1.5/03.1	39935	1998 SN ₄₈	2000 04 01.8	12 45.74	-05 13.1	18.0	-0.90	+	5.0	8.7/22.0	40337
(14199)	2000 04 01.1	12 43.37	+16 55.0	17.4	-0.94	+	4.6	6.7/25.1	39108	(14484)	2000 04 01.8	12 45.76	-07 22.8	16.9	-0.91	+	8.1	1.0/02.7	39843
1937 UD	2000 04 01.2	12 43.35	+01 19.7	18.4	-1.09	+	4.5	2.0/30.5	40288	1997 SL	2000 04 01.8	12 45.80	-06 09.1	20.3	-0.77	+	5.2	0.3/02.3	31011
2000 EE ₁₀₆	2000 04 01.2	12 43.43	+09 43.7	17.2	-0.74	+	11.0	5.4/26.6	40185	(14360)	2000 04 01.8	12 45.81	-00 27.3	17.8	-0.66	+	8.2	1.1/31.2	39807
1997 SS ₄	2000 04 01.2	12 43.44	-08 54.1	18.2	-0.81	+	5.7	1.3/02.6	40319	2000 FS ₉	2000 04 01.9	12 45.89	-04 13.7	19.2	-0.94	+	5.4	0.2/01.7	40221
2000 EV ₄₇	2000 04 01.2	12 43.55	-06 24.0	17.7	-0.81	+	4.7	0.5/01.8	40151	2000 FL ₂₆	2000 04 01.9	12 45.99	+01 12.5	18.1	-0.79	+	2.4	1.6/31.1	40232
2000 EK ₄₇	2000 04 01.2	12 43.64	-03 46.4	18.1	-0.87	+	4.1	0.3/32.0	40151	(14467)	2000 04 01.9	12 46.02	-11 09.4	17.2	-0.93	+	4.8	2.2/03.9	39838
(14291)	2000 04 01.2	12 43.66	-12 14.1	17.2	-1.11	+	2.0	2.8/03.3	39134	(10223)	2000 04 01.9	12 46.12	-02 53.3	16.4	-0.77	+	4.3	0.7/01.3	38750
2000 FU ₅₀	2000 04 01.2	12 43.71	-05 29.5	19.3	-0.83	+	6.0	0.3/01.6	40255	2000 EJ ₁₀₈	2000 04 01.9	12 46.15	+04 58.6	16.6	-0.90	+	3.4	4.3/29.9	40488
1998 WM ₉	2000 04 01.2	12 43.73	+05 55.4	18.1	-0.95	+	3.3	3.6/29.2	40044	1998 VW ₃₀	2000 04 02.0	12 46.33	-05 37.7	18.3	-1.00	+	5.6	0.2/02.2	40346
2000 FE ₃₃	2000 04 01.3	12 43.71	+02 56.6	18.1	-1.05	+	2.7	3.3/30.2	40240	1998 VA ₁₅	2000 04 02.0	12 46.34	-07 29.1	17.5	-0.87	+	6.0	0.9/02.8	40346
1993 TV ₁₂	2000 04 01.3	12 43.75	+04 20.2	17.0	-0.91	+	2.6	3.0/29.7	40303	2000 ED ₇₀	2000 04 02.0	12 46.39	-01 20.9	18.1	-0.58	+	5.1	0.8/31.8	40166
1996 AC ₁₁	2000 04 01.3	12 43.81	-03 32.4	18.4	-0.83	+	7.1	0.5/31.9	39963	2000 FA ₅₁	2000 04 02.0	12 46.59	-05 41.6	20.0	-0.87	+	4.7	0.2/02.3	40255
1998 VC ₂₃	2000 04 01.3	12 43.82	-07 09.8	21.3	-0.84	+	5.7	0.7/02.1	34309	1989 CY ₂	2000 04 02.0	12 46.63	-09 19.1	18.1	-0.93	+	8.0	1.6/03.5	40293
2000 FT ₃₄	2000 04 01.3	12 43.83	-00 05.0	18.2	-0.88	+	5.2	1.6/30.9	40241	2000 FH ₇	2000 04 02.1	12 46.60	-04 42.6	19.2	-0.78	+	5.2	0.1/02.0	40220
1981 EX ₃₁	2000 04 01.3	12 44.02	-02 32.0	17.4	-0.77	+	6.3	0.6/31.6	40290	1998 YD ₁₀	2000 04 02.1	12 46.71	+00 12.1	17.5	-0.79	+	4.8	1.6/31.4	40350
1996 HM ₁₆	2000 04 01.3	12 44.06	-10 40.5	16.9	-0.81	+	8.1	2.3/03.4	39969	1995 YV	2000 04 02.1	12 46.72	+06 29.5	17.8	-0.97	+	5.7	4.4/29.5	40310
(14410)	2000 04 01.3	12 44.06	-13 23.9	16.8	-0.73	+	6.2	2.4/04.4	39822	3370 T-2	2000 04 02.1	12 46.73	-03 11.1	18.5	-0.92	+	4.4	0.6/01.6	40533
1998 RC ₇₂	2000 04 01.3	12 44.08	-02 55.3	18.9	-1.03	+	6.1	0.7/31.8	40335	1993 QU ₄	2000 04 02.1	12 46.77	+04 54.1	17.2	-0.81	+	8.9	3.3/29.6	40303
(14450)	2000 04 01.3	12 44.09	+02 45.4	17.5	-0.81	+	2.8	2.1/30.1	39833	(14453)	2000 04 02.1	12 46.88	+00 33.6	16.9	-1.06	+	3.4	2.2/31.6	39834
2000 EL ₄₇	2000 04 01.3	12 44.11	-04 12.2	16.9	-0.94	+	3.9	0.2/01.2	40479	1998 XT ₅₁	2000 04 02.1	12 46.91	+03 03.2	17.0	-0.86	+	1.3	2.7/30.8	40054
1996 HO ₁₄	2000 04 01.4	12 44.09	-01 00.0	17.8	-0.90	+	4.5	1.4/31.3	40312	2000 EV ₁₃₃	2000 04 02.1	12 46.99	+10 24.8	18.5	-0.73	+	5.6	4.3/27.8	40199
1981 EW ₁₃	2000 04 01.4	12 44.11	-08 06.0	17.3	-0.91	+	5.9	1.4/02.5	40290	1982 VB ₄	2000 04 02.2	12 46.96	+00 18.8	16.6	-0.92	+	4.1	2.2/31.6	40291
(14546)	2000 04 01.4	12 44.21	+00 50.8	16.5	-1.03	+	1.7	2.1/30.9	39860	1994 TJ ₂	2000 04 02.2	12 47.06	-00 38.2	18.1	-0.91	+	7.4	1.5/31.8	40306
2000 FU ₂₆	2000 04 01.4	12 44.23	-03 11.3	17.9	-0.83	+	3.6	0.5/32.0	40233	1997 TW ₉	2000 04 02.2	12 47.07	-00 40.4	18.9	-0.74	+	4.5	1.2/31.8	40320
2000 EC ₁₀₆	2000 04 01.4	12 44.25	+06 29.7	18.3	-0.90	+	6.5	3.7/28.7	40185	1981 EP ₄₁	2000 04 02.2	12 47.17	-06 20.4	18.8	-0.95	+	5.1	0.4/02.6	40291
(14351)	2000 04 01.4	12 44.30	-04 04.3	17.6	-0.92	+	6.7	0.2/01.2	39804	(9944)	2000 04 02.2	12 47.19	-00 01.0	17.0	-0.80	+	5.3	1.6/31.6	33658
2000 FO ₂₇	2000 04 01.5	12 44.42	-05 00.5	18.5	-0.83	+	6.2	0.1/01.6	40233	1998 SW ₅₂	2000 04 02.2	12 47.25	-09 40.5	18.2	-0.91	+	8.5	1.8/03.8	40006
2000 EY ₄₃	2000 04 01.5	12 44.43	-03 19.1	16.8	-1.01	+	2.6	0.6/01.1	40146	2000 FC ₂₈	2000 04 02.2	12 47.35	-07 31.2	17.4	-0.83	+	5.3	0.8/03.1	40234
1984 WJ ₁	2000 04 01.5	12 44.53	+02 50.2	16.7	-1.04	+	3.2	2.6/30.4	40291	1998 SH ₂₇	2000 04 02.2	12 47.39	+04 57.5	19.9	-0.92	+	5.5	3.3/30.1	35717
1986 WC ₁	2000 04 01.5	12 44.55	-01 57.8	18.5	-0.72	+	4.2	0.7/31.6	40292	1996 BQ ₁	2000 04 02.3	12 47.43	+00 00.6	18.8	-1.00	+	4.8	1.9/31.8	40311
2000 FU ₃₄	2000 04 01.5	12 44.74	-00 05.3	18.0	-0.85	+	5.9	1.9/31.0	40241	1997 KO ₂	2000 04 02.3	12 47.55	+06 33.1	17.9	-0.98	+	5.3	4.3/29.7	40318
1998 SF ₁₃₀	2000 04 01.5	12 44.83	-04 27.8	19.5	-0.95	+	4.5	0.1/01.5	40013	1999 AP ₉	2000 04 02.3	12 47.63	-05 02.8	17.1	-0.77	+	5.4	0.0/02.4	40351
2000 DL ₁₆	2000 04 01.6	12 44.84	-05 27.6	17.3	-0.97	+	1.9	8.0/22.0	40114	2000 FY ₂₆	2000 04 02.3	12 47.67	-00 43.5	17.9	-0.93	+	7.1	1.9/32.0	40233
1994 PE ₃₅	2000 04 01.6	12 44.89	-03 04.0	18.2	-0.91	+	6.9	0.6/01.1	40306	(14554)	2000 04 02.3	12 47.68	-00 05.4	18.2	-0.72	+	4.6	1.3/31.7	39862
1996 HP ₄	2000 04 01.6	12 44.89	+03 30.3	16.8	-0.98	+	3.0	3.1/30.2	39967	1994 TE ₁₂	2000 04 02.3	12 47.73	-03 52.5	19.5	-0.97	+	4.8	0.4/02.0	39958
2000 EM ₁₀₄	2000 04 01.6	12 44.94	+18 08.3	17.3	-0.92	+	1.2	9.5/25.7	40488	1998 RP ₇₁	2000 04 02.4	12 47.67	-03 16.6	17.9	-1.07	+	4.6	0.7/01.9	40335

(14757)	2000 04 02.4	12 47.69	-05 00.9	17.7	-0.83	+	8.3	0.0/02.4	39920
1981 EJ ₄₀	2000 04 02.4	12 47.70	-35 28.5	19.4	-1.15		0.0	7.6/11.3	34003
1997 UW ₁₈	2000 04 02.4	12 47.93	+06 14.8	17.0	-0.73	+	3.0	3.1/29.8	40320
(10131)	2000 04 02.4	12 47.99	-07 29.3	18.9	-0.94	+	6.8	0.8/03.2	33888
3300 T-3	2000 04 02.4	12 48.02	-06 09.1	18.9	-0.79	+	4.6	0.3/02.8	40284
2000 FL ₃₄	2000 04 02.4	12 48.02	+18 01.1	17.7	-0.97	+	1.9	7.5/26.5	40241
1996 HJ ₈	2000 04 02.5	12 48.05	-09 00.0	17.2	-0.87	+	7.0	1.5/03.8	39967
(13914)	2000 04 02.5	12 48.33	+16 27.5	17.6	-0.89	+	5.2	6.3/26.1	39027
2000 GC ₉₈	2000 04 02.5	12 48.40	-11 34.5	17.6	-1.04	+	5.1	2.8/04.5	40269
1997 UW ₁₄	2000 04 02.6	12 48.41	+01 03.5	18.3	-0.75	+	3.6	1.7/31.6	40320
(10217)	2000 04 02.6	12 48.42	-11 21.9	17.0	-0.95	+	2.7	1.8/04.4	33910
2000 EC ₄₈	2000 04 02.6	12 48.49	-04 52.9	17.7	-0.88	+	6.0	0.1/02.5	40152
1991 VQ ₂	2000 04 02.6	12 48.52	+13 34.5	16.6	-1.31	-	2.1	7.0/29.6	39943
(14440)	2000 04 02.6	12 48.59	-04 04.4	17.5	-0.79	+	5.7	0.4/02.3	39830
(14781)	2000 04 02.6	12 48.62	-20 07.4	17.1	-0.79	+	6.7	4.5/07.8	39927
2000 GG ₉₈	2000 04 02.6	12 48.63	-10 43.1	17.0	-0.79	+	7.0	1.7/04.5	40269
2000 AK ₂₄₆	2000 04 02.6	12 48.70	+05 15.1	17.0	-0.99	+	4.7	3.9/30.5	40096
1998 UA ₁₅	2000 04 02.6	12 48.78	+02 29.0	17.3	-0.99	+	3.5	3.1/31.4	40344
1998 RW ₅₅	2000 04 02.6	12 48.82	-11 19.8	18.1	-1.05	+	5.2	2.3/04.5	39995
(14596)	2000 04 02.6	12 48.83	+00 02.1	17.8	-0.89	+	8.9	1.8/31.9	39875
2000 EY ₄₇	2000 04 02.7	12 48.85	-04 56.8	15.9	-0.85	+	8.0	0.1/02.6	40152
(13529)	2000 04 02.7	12 48.94	-13 04.1	15.9	-1.03	+	4.8	3.4/05.1	38324
2000 EO ₁₄₇	2000 04 02.7	12 48.98	-08 57.6	18.0	-0.87	+	1.8	1.2/03.8	40207
2000 FV ₂₁	2000 04 02.7	12 49.08	+13 49.7	18.6	-0.80	+	3.8	5.9/27.4	40229
1993 TY ₃₄	2000 04 02.7	12 49.11	-02 34.7	18.5	-0.92	+	4.5	0.9/02.0	40304
1995 BY ₂	2000 04 02.8	12 49.25	+15 57.2	17.0	-0.83	+	5.3	6.4/26.6	40308
(9938)	2000 04 02.8	12 49.28	+01 50.9	16.4	-1.06	+	6.4	2.9/31.6	33657
2000 EZ ₄₇	2000 04 02.8	12 49.29	-06 00.5	17.4	-0.78	+	4.4	0.2/03.1	40152
2000 FX ₃₄	2000 04 02.8	12 49.39	+01 17.0	17.9	-0.98	+	1.7	2.7/01.0	40241
1997 OG ₂	2000 04 02.8	12 49.47	-05 00.6	18.7	-0.94	+	6.8	0.1/02.8	39978
2000 EB ₄₈	2000 04 02.8	12 49.50	-05 13.9	18.4	-0.93	+	7.3	0.0/02.9	40152
3050 P-L	2000 04 02.9	12 49.59	-16 56.0	18.6	-0.80	+	3.6	3.2/06.6	40530
1979 OG ₈	2000 04 02.9	12 49.61	+24 30.1	20.9	-0.90	+	6.2	8.2/23.0	23856
(14633)	2000 04 02.9	12 49.67	+05 51.9	18.4	-0.94	+	6.0	3.7/30.4	39886
2000 ED ₄₈	2000 04 02.9	12 49.72	-03 41.2	18.3	-0.80	+	8.2	0.5/02.4	40153
1998 WQ ₁₃	2000 04 02.9	12 49.88	-05 05.0	19.0	-0.97	+	5.0	0.1/02.9	40348
2000 FH ₄	2000 04 02.9	12 49.91	-07 43.0	18.7	-0.93	+	5.3	1.0/03.7	40218
(9990)	2000 04 02.9	12 49.93	-03 56.3	17.3	-0.79	+	5.6	0.4/02.5	33668
2000 CM ₅₉	2000 04 03.0	12 49.86	-03 40.7	16.3	-1.08	+	2.8	0.7/02.5	40453
1998 UQ ₇	2000 04 03.0	12 49.90	+07 46.9	17.6	-1.04	+	6.6	4.9/30.5	40344
1998 YP ₁₂	2000 04 03.0	12 49.95	-08 07.5	17.3	-0.77	+	4.6	0.8/03.9	40351
1998 XH ₅	2000 04 03.0	12 50.02	+13 58.3	16.9	-0.73	+	4.7	5.6/27.3	40050
2000 DH ₁₆	2000 04 03.0	12 50.05	-06 10.0	16.0	-1.06	+	3.0	0.4/03.3	40461
1988 SD ₃	2000 04 03.0	12 50.09	+17 09.2	17.9	-0.84	+	5.8	6.7/25.9	39937
(9957)	2000 04 03.0	12 50.20	-10 55.0	16.8	-0.93	+	8.4	2.0/04.9	33661
1981 QW ₂	2000 04 03.0	12 50.22	-02 05.0	17.1	-1.06	+	5.1	1.3/02.1	40291
2000 EJ ₁₃₄	2000 04 03.0	12 50.22	+04 52.8	17.1	-0.76	+	3.1	2.9/30.8	40200
1998 UB ₂₃	2000 04 03.0	12 50.24	-01 10.9	18.1	-0.99	+	4.7	1.5/01.8	40344
2000 EK ₉₅	2000 04 03.1	12 50.26	-08 23.6	16.0	-0.91	+	7.0	1.3/04.1	40487
2000 FO ₂₅	2000 04 03.1	12 50.31	+01 46.2	18.0	-0.73	+	7.1	1.8/31.6	40230
1998 UP ₁₆	2000 04 03.1	12 50.32	-09 44.2	16.8	-0.89	+	8.4	1.9/04.6	40027

(14542)	2000 04 03.1	12 50.34	-16 49.9	17.6	-0.74	+	6.9	3.5/07.2	39859
(14091)	2000 04 03.1	12 50.35	+15 58.6	18.4	-0.89	+	4.1	6.4/27.1	39077
1996 RH ₃	2000 04 03.1	12 50.38	-00 21.3	17.5	-0.72	+	6.2	1.7/01.4	39973
1993 FQ ₄₈	2000 04 03.1	12 50.42	-07 04.6	17.3	-1.05	+	3.7	0.7/03.6	40302
1998 XV ₉₅	2000 04 03.1	12 50.52	-05 48.2	17.4	-0.73	+	6.5	0.1/03.3	40058
(9723)	2000 04 03.1	12 50.54	-14 08.9	16.8	-1.08	+	5.0	3.5/05.7	33193
1968 OD ₁	2000 04 03.1	12 50.54	-13 17.2	17.5	-0.99	+	7.4	2.9/05.7	39930
1998 XH ₁₂	2000 04 03.1	12 50.63	+02 36.4	16.5	-0.90	+	4.0	3.3/31.7	40051
2000 DS ₂₉	2000 04 03.1	12 50.63	-04 28.4	17.3	-1.01	+	5.0	0.4/02.9	40115
1997 QL ₁	2000 04 03.1	12 50.67	-06 34.0	19.4	-0.89	+	8.4	0.4/03.6	39979
1996 HK ₂₅	2000 04 03.2	12 50.62	+01 43.1	18.1	-0.88	+	5.1	2.3/31.9	39969
2000 EV ₂₆	2000 04 03.2	12 50.75	+01 58.2	16.3	-0.88	+	24.0	3.1/31.1	40475
(14007)	2000 04 03.2	12 50.78	-01 10.8	15.7	-0.79	+	7.2	1.8/01.8	39052
1998 TO ₃₄	2000 04 03.2	12 50.79	-02 23.4	17.8	-0.85	+	7.5	1.1/02.2	40343
1998 VY ₂₅	2000 04 03.2	12 50.80	-02 45.0	17.7	-0.99	+	4.5	1.1/02.4	40038
1998 VB ₁₃	2000 04 03.2	12 50.92	-04 11.3	19.0	-0.96	+	6.4	0.4/02.9	40346
1997 UC ₁₅	2000 04 03.2	12 50.93	-03 57.8	18.7	-0.71	+	4.6	0.4/02.8	40320
2000 FQ ₂₅	2000 04 03.2	12 50.95	+00 39.8	16.6	-0.86	+	2.8	1.9/01.4	40230
(11261)	2000 04 03.2	12 50.96	-02 18.5	17.7	-0.78	+	5.3	0.9/02.2	35557
1997 MW ₆	2000 04 03.2	12 50.99	-06 09.1	19.8	-0.86	+	8.6	0.2/03.5	40318
(14560)	2000 04 03.3	12 51.11	-07 58.2	18.7	-0.67	+	4.7	0.6/04.2	39864
2000 EQ ₄₈	2000 04 03.3	12 51.13	-06 11.5	17.3	-0.90	+	6.3	0.3/03.6	40153
(14325)	2000 04 03.3	12 51.13	-09 56.9	17.9	-0.73	+	5.7	1.5/04.8	39796
(14330)	2000 04 03.3	12 51.21	-00 44.8	18.5	-0.66	+	5.2	1.2/01.7	39798
(9774)	2000 04 03.3	12 51.22	-06 04.0	17.6	-0.89	+	5.4	0.2/03.5	33205
1979 MM ₁	2000 04 03.3	12 51.23	+16 03.8	18.0	-0.70	+	5.5	5.5/26.5	40289
1997 RN ₁	2000 04 03.3	12 51.29	-09 53.6	20.2	-0.90	+	5.3	1.3/04.7	40319
1997 LF	2000 04 03.4	12 51.40	+00 39.3	20.6	-0.95	+	8.6	2.2/01.4	32967
1997 UA ₇	2000 04 03.4	12 51.41	+02 30.6	18.9	-0.74	+	3.7	1.8/31.8	40320
(9954)	2000 04 03.4	12 51.47	-08 18.1	17.7	-0.90	+	2.9	0.9/04.3	33660
1999 AR ₃₀	2000 04 03.4	12 51.52	-05 06.5	18.9	-0.75	+	4.8	0.1/03.3	40067
1998 UO ₇	2000 04 03.4	12 51.54	-01 31.3	18.7	-0.92	+	4.3	1.3/02.2	40026
(14582)	2000 04 03.4	12 51.59	-01 36.6	17.2	-0.94	+	8.1	1.5/02.2	39870
1997 QB	2000 04 03.5	12 51.71	-13 32.5	19.0	-0.86	+	5.7	2.6/06.1	40318
1998 SD ₁	2000 04 03.5	12 51.73	-04 34.4	20.5	-0.92	+	8.2	0.3/03.2	39999
1998 VZ ₆	2000 04 03.5	12 51.80	-04 47.8	20.1	-0.91	+	6.5	0.2/03.3	40035
1998 XZ ₄₉	2000 04 03.5	12 51.80	+09 50.1	18.3	-0.86	+	2.9	4.5/29.8	40349
2000 ER ₁₁₁	2000 04 03.5	12 51.82	+06 11.8	17.3	-0.95	+	1.2	3.5/31.3	40189
1997 WP ₄₇	2000 04 03.5	12 51.85	-13 10.9	17.3	-0.95	+	5.3	2.6/05.9	39984
2000 ER ₁₃₉	2000 04 03.5	12 51.87	+05 47.1	17.3	-0.85	+	2.3	3.5/31.2	40205
(10053)	2000 04 03.5	12 51.98	-03 17.3	16.3	-0.93	+	8.3	0.9/02.8	33870
1999 CM ₁₃₆	2000 04 03.5	12 52.03	-16 35.3	17.8	-0.78	+	3.6	3.3/07.0	40352
2000 EY	2000 04 03.5	12 52.03	-06 18.6	17.5	-1.01	+	5.1	0.3/03.8	40472
(13390)	2000 04 03.5	12 52.06	+08 56.3	17.4	-0.81	+	7.6	4.4/29.5	37592
2000 GQ ₆	2000 04 03.6	12 52.06	-02 38.8	17.1	-0.79	+	5.6	0.9/02.6	40257
2000 FP ₁	2000 04 03.6	12 52.09	-06 35.2	18.5	-1.01	+	3.4	0.4/03.9	40217
(14602)	2000 04 03.6	12 52.09	+02 59.0	17.2	-1.02	+	3.3	3.3/01.2	39876
1998 SB ₅₈	2000 04 03.6	12 52.09	-02 43.1	18.5	-1.06	+	3.1	1.1/02.8	40007
2000 EC ₁₀₅	2000 04 03.6	12 52.13	+08 42.1	17.9	-0.78	+	2.7	3.9/30.1	40184
(10252)	2000 04 03.6	12 52.21	-04 20.3	16.7	-0.82	+	4.5	0.4/03.2	39510
2000 FY ₃₄	2000 04 03.6	12 52.27	+00 49.5	18.3	-0.95	+	6.7	2.2/01.6	40242

1998 RJ ₅₈	2000 04 03.6	12 52.28	-04 08.6	19.1	-0.95	+	6.6	0.5/03.2	39995
1998 WP ₃	2000 04 03.6	12 52.29	-00 17.8	17.8	-0.78	+	5.0	1.6/01.9	40042
1998 XB ₇₈	2000 04 03.6	12 52.34	+15 32.6	17.1	-0.80	+	5.4	7.0/27.3	40056
1998 SJ ₁₆₂	2000 04 03.6	12 52.45	-07 20.9	20.3	-0.91	+	7.0	0.5/04.2	35720
1998 VB ₁₅	2000 04 03.7	12 52.44	-04 08.9	19.4	-0.99	+	5.3	0.5/03.3	40037
1996 KC ₁	2000 04 03.7	12 52.53	+11 20.1	18.0	-0.75	+	9.0	6.1/28.3	40313
1998 SU ₁₅₄	2000 04 03.7	12 52.58	-13 49.0	18.1	-0.92	+	6.1	2.9/06.4	33046
(14414)	2000 04 03.7	12 52.61	-00 36.8	18.1	-0.97	+	6.3	1.7/02.2	39823
2000 FH ₂₇	2000 04 03.7	12 52.63	-06 23.3	18.3	-0.78	+	5.2	0.2/04.0	40233
2000 FS ₂₅	2000 04 03.7	12 52.63	-00 42.4	18.3	-0.75	+	3.9	1.4/02.2	40231
1993 TJ ₃₉	2000 04 03.7	12 52.65	+07 04.9	17.5	-0.84	+	4.2	4.4/30.7	40304
(14529)	2000 04 03.7	12 52.68	-04 03.7	18.5	-0.84	+	5.7	0.5/03.2	39855
1998 WG ₃	2000 04 03.7	12 52.72	-10 40.9	17.2	-0.83	+	5.4	1.7/05.4	40347
1996 HY	2000 04 03.7	12 52.81	+13 20.7	16.8	-0.97	+	0.8	7.7/29.3	40312
2000 FE ₃₅	2000 04 03.7	12 52.81	+00 34.4	18.2	-0.99	+	7.1	2.3/01.8	40242
(9925)	2000 04 03.8	12 52.79	-09 23.1	18.0	-0.83	+	4.4	1.1/05.0	40288
1998 SQ ₂₆	2000 04 03.8	12 52.82	-04 10.3	19.8	-0.87	+10.0		0.5/03.3	40003
2000 FW ₃₅	2000 04 03.8	12 52.83	+16 32.0	17.9	-0.93	+	5.1	6.6/27.4	40243
1998 SS ₂₅	2000 04 03.8	12 52.85	+02 57.8	18.5	-1.00	+	4.5	3.1/01.3	40337
2000 FK ₃₅	2000 04 03.8	12 52.90	+01 45.8	17.8	-0.95	+	7.0	3.2/01.4	40243
1996 HY ₁	2000 04 03.8	12 52.96	-10 44.2	18.0	-0.97	+	2.5	1.6/05.3	40312
(14426)	2000 04 03.8	12 52.99	+02 21.5	17.3	-0.95	+	6.1	2.7/01.3	39826
1998 XS ₇₆	2000 04 03.8	12 53.02	-10 00.1	16.8	-0.82	+	5.9	1.5/05.3	40055
1999 AO ₇	2000 04 03.8	12 53.03	+13 11.9	17.7	-0.75	+	5.4	5.8/28.2	40066
2000 EF ₁₀₅	2000 04 03.8	12 53.05	+09 47.2	17.3	-0.90	+	1.0	5.3/30.4	40488
2000 FT ₂₅	2000 04 03.8	12 53.08	-00 22.1	18.8	-0.80	+	4.8	1.7/02.2	40231
1990 SN ₅	2000 04 03.9	12 53.19	-02 20.5	18.8	-1.01	+	5.9	1.3/02.9	39940
1981 EP ₃₁	2000 04 03.9	12 53.20	-05 06.1	18.4	-0.99	+	4.7	0.2/03.7	39933
1993 TV ₂₇	2000 04 03.9	12 53.25	-01 24.4	17.7	-0.84	+	5.1	1.4/02.6	40304
(14058)	2000 04 03.9	12 53.28	+00 26.0	17.2	-0.93	+	7.3	2.5/01.9	39067
2000 FX ₃₅	2000 04 03.9	12 53.33	+17 50.4	15.3	-0.91	-	0.6	11.0/27.8	40244
2000 FW ₂₅	2000 04 03.9	12 53.37	-00 15.9	18.3	-0.99	+	3.7	1.9/02.4	40231
2000 GP ₁₀₂	2000 04 03.9	12 53.38	-09 33.7	17.7	-0.91	+	7.9	1.5/05.2	40270
2000 EF ₁₃₄	2000 04 03.9	12 53.46	+07 43.1	16.9	-0.90	+	3.5	4.8/30.7	40200
1994 TT ₁₆	2000 04 03.9	12 53.53	-04 10.9	20.0	-0.96	+	5.2	0.5/03.5	40306
2000 EP ₁₀₅	2000 04 03.9	12 53.62	+04 49.4	17.7	-1.08	-	0.5	4.1/01.4	40184
(14428)	2000 04 04.0	12 53.51	-03 48.8	18.2	-0.72	+	4.4	0.5/03.4	39827
2000 FK ₂₈	2000 04 04.0	12 53.52	-12 18.4	16.7	-1.02	+	3.4	3.0/05.9	40234
2000 EU ₄₉	2000 04 04.0	12 53.58	-08 10.4	16.3	-0.83	+	4.1	0.9/04.8	40154
1998 SD ₄₇	2000 04 04.0	12 53.74	-02 48.9	17.9	-1.01	+	3.4	1.3/03.2	40006
1995 LC	2000 04 04.0	12 53.82	+43 29.0	19.1	-1.52	-	4.9	22.6/18.0	25963
2000 GB ₁₂₀	2000 04 04.0	12 53.87	-05 53.2	19.6	-0.93	+	7.1	0.0/04.1	40271
1992 OK	2000 04 04.0	12 53.87	-14 32.6	19.6	-0.81	+	5.5	2.3/07.0	34009
2000 EO ₄₈	2000 04 04.0	12 53.94	-05 43.2	16.7	-0.96	+	2.5	0.0/04.1	40153
(13958)	2000 04 04.1	12 54.08	-04 27.8	16.0	-0.75	+	8.9	0.5/03.7	39039
2000 FR ₃₅	2000 04 04.1	12 54.27	+02 06.8	17.9	-0.92	+	4.5	3.0/01.7	40243
(14552)	2000 04 04.1	12 54.29	-03 44.1	18.2	-0.71	+	4.2	0.5/03.5	39862
2000 FE ₂₇	2000 04 04.2	12 54.25	-00 56.8	18.1	-0.88	+	9.1	1.9/02.5	40233
1998 QR ₅₁	2000 04 04.2	12 54.31	-34 58.3	17.3	-1.44	-	1.0	11.1/12.5	38783
(14729)	2000 04 04.2	12 54.32	-06 42.9	16.8	-0.89	+	3.6	0.3/04.5	39913
1996 CL ₁	2000 04 04.2	12 54.46	+17 54.8	16.8	-0.72	+	9.4	10.2/25.5	40311

2000 FJ ₂₈	2000 04 04.2	12 54.54	-10 24.9	17.3	-0.79	+	3.5	1.4/05.7	40234
3098 T-3	2000 04 04.2	12 54.56	-04 03.1	20.3	-0.84	+	6.7	0.6/03.7	40534
(14166)	2000 04 04.2	12 54.61	+10 03.2	16.6	-0.75	+	8.8	5.8/29.4	39099
1998 SE ₁₂₈	2000 04 04.2	12 54.70	-01 11.8	19.3	-0.93	+	6.2	1.6/02.8	34024
2000 FY ₃₅	2000 04 04.3	12 54.73	+18 20.7	17.1	-0.94	+	2.6	8.5/27.4	40244
1998 SS ₁₆₁	2000 04 04.3	12 54.73	-02 35.8	18.4	-0.92	+	6.3	1.1/03.3	40342
1998 SU ₂₄	2000 04 04.3	12 54.76	+02 30.6	16.8	-1.00	+	4.6	3.4/01.9	40337
2059 T-1	2000 04 04.3	12 54.84	-17 24.8	16.6	-1.27	-	0.7	4.0/07.0	40532
2000 EC ₂₀	2000 04 04.3	12 54.88	-05 36.5	17.2	-0.90	+	7.2	0.1/04.3	40474
2000 FM ₃₅	2000 04 04.3	12 54.93	+01 33.3	17.5	-0.89	+	8.7	2.8/01.8	40243
2000 EZ ₁₄₇	2000 04 04.3	12 54.97	-03 50.5	17.7	-0.88	+	7.0	0.8/03.7	40208
4124 P-L	2000 04 04.3	12 54.97	-06 00.5	18.4	-0.76	+	7.2	0.0/04.4	40273
(9970)	2000 04 04.3	12 55.06	-17 24.8	16.1	-0.92	+	3.3	4.0/07.8	33664
2000 FG ₃₅	2000 04 04.4	12 55.00	-00 47.8	17.9	-1.01	+	1.7	1.6/03.0	40242
1998 SG ₁	2000 04 04.4	12 55.05	-04 42.0	18.7	-0.88	+	6.4	0.4/04.0	40336
2000 EC ₁₅₁	2000 04 04.4	12 55.09	-01 13.7	17.5	-0.94	+	7.4	2.1/02.9	40211
2000 DG ₁₆	2000 04 04.4	12 55.11	-02 14.9	17.3	-0.76	+	8.7	1.3/03.1	40461
1999 AR ₉	2000 04 04.4	12 55.13	-33 33.2	18.3	-0.97	+	0.3	6.9/12.7	34600
(14204)	2000 04 04.4	12 55.19	+10 48.2	17.0	-0.75	+	5.7	4.9/29.6	39109
(10381)	2000 04 04.4	12 55.21	-16 17.3	18.0	-0.89	+	3.6	3.0/07.6	34155
1990 RA ₈	2000 04 04.4	12 55.24	-06 29.2	19.4	-0.95	+	5.1	0.2/04.6	40295
(14446)	2000 04 04.4	12 55.27	-13 13.6	17.0	-0.72	+	6.9	1.9/07.0	39832
(14411)	2000 04 04.4	12 55.34	-13 40.0	17.4	-0.98	+	6.6	2.8/07.0	39822
1998 XY ₁₄	2000 04 04.4	12 55.36	+26 19.9	17.1	-1.01	+	1.2	12.5/24.4	34032
1998 SA ₁₂₉	2000 04 04.5	12 55.35	-01 47.3	19.1	-0.79	+	9.4	1.3/03.0	35719
2000 EZ ₁₄₉	2000 04 04.5	12 55.41	+16 15.1	18.4	-0.85	+	4.7	6.4/28.0	40210
1998 QR ₉₁	2000 04 04.5	12 55.47	-04 54.1	18.4	-1.01	+	6.3	0.4/04.2	40332
1998 SL ₅₀	2000 04 04.5	12 55.50	-05 40.3	19.6	-1.00	+	3.7	0.1/04.5	40337
1993 FX ₃₅	2000 04 04.5	12 55.67	-05 29.9	16.7	-1.37	-	1.7	0.2/04.5	39948
(14395)	2000 04 04.5	12 55.73	-00 13.7	17.1	-1.55	-	3.2	2.6/03.5	39817
1998 XL ₁	2000 04 04.6	12 55.72	-08 15.0	18.1	-0.80	+	6.4	0.8/05.4	40047
1985 QF ₁	2000 04 04.6	12 55.73	-27 19.9	17.1	-0.97	+	4.6	7.3/11.7	40292
1998 UU ₆	2000 04 04.6	12 55.74	+12 36.1	18.1	-0.94	+	3.1	5.5/29.9	40343
1997 RZ	2000 04 04.6	12 55.79	-13 13.8	17.5	-0.85	+	4.6	2.4/07.0	40319
(14516)	2000 04 04.6	12 55.97	-05 36.4	17.4	-0.83	+	6.7	0.1/04.5	39851
1093 T-2	2000 04 04.6	12 55.98	-08 58.3	18.4	-1.05	+	3.6	1.1/05.5	40532
2000 EB ₁₅₁	2000 04 04.6	12 55.98	-02 45.1	17.8	-0.79	+	4.5	1.1/03.6	40211
2000 ER ₁₀₅	2000 04 04.6	12 56.01	+07 55.6	17.3	-0.99	+	5.0	5.9/31.4	40185
(14190)	2000 04 04.6	12 56.01	+01 25.9	17.2	-0.78	+	4.5	2.3/02.3	39106
2000 FS ₃₅	2000 04 04.6	12 56.07	+02 46.0	18.2	-0.91	+	8.1	3.3/01.8	40243
(10451)	2000 04 04.6	12 56.07	-08 21.2	16.6	-0.96	+	1.9	0.8/05.3	38750
(14629)	2000 04 04.7	12 56.23	-13 50.5	17.7	-1.03	+	6.3	2.8/07.2	39885
1997 NA	2000 04 04.7	12 56.25	-10 15.2	18.8	-0.96	+	7.9	1.5/06.1	40318
1996 AK ₁₀	2000 04 04.7	12 56.28	-08 44.3	18.5	-0.97	+	6.5	1.0/05.6	33342
1994 WR ₃	2000 04 04.7	12 56.33	+17 11.0	16.6	-0.94	+	2.6	7.5/28.6	40307
(14556)	2000 04 04.7	12 56.37	-05 09.6	18.0	-0.70	+	4.6	0.2/04.5	39863
2000 ES ₁₀₅	2000 04 04.7	12 56.41	+06 15.2	17.9	-1.00	+	3.3	4.3/01.2	40185
2000 ER ₁₄₇	2000 04 04.7	12 56.45	-08 13.2	18.2	-0.87	+	6.5	0.8/05.5	40208
2000 FY ₂₈	2000 04 04.7	12 56.48	-11 53.4	18.3	-0.94	+	8.0	2.1/06.7	40235
1997 UC ₁₁	2000 04 04.8	12 56.45	-14 14.6	15.9	-1.54	-	6.8	3.8/06.0	40320
2000 FC ₃₀	2000 04 04.8	12 56.46	-00 35.3	17.8	-0.87	+	7.8	1.8/03.0	40236

2000 APR. 18

M.P.C. 40553

1992 EH ₂₄	2000 04 04.8	12 56.46 +05 02.2 19.3	-0.89 + 6.4	3.6/01.2	40299
1991 TO	2000 04 04.8	12 56.48 +02 42.1 18.4	-0.96 + 6.6	3.2/02.0	40298
2000 FO ₄₆	2000 04 04.8	12 56.50 -02 35.4 18.3	-1.09 + 4.3	1.4/03.8	40252
1998 WY ₁₉	2000 04 04.8	12 56.58 +17 09.8 18.6	-0.84 + 4.9	7.6/28.0	40348
2000 GX ₂₄	2000 04 04.8	12 56.65 -08 05.7 17.1	-0.78 + 5.0	0.7/05.5	40258
1998 VX ₃₄	2000 04 04.8	12 56.70 -11 45.9 18.9	-0.81 + 7.1	1.7/07.0	40040
2000 FP ₅	2000 04 04.8	12 56.84 -07 16.0 19.5	-0.85 + 4.1	0.4/05.3	40219
1998 SC ₁₁₉	2000 04 04.8	12 56.88 -06 18.2 18.8	-1.09 + 3.6	0.1/05.0	40011
2000 EX	2000 04 04.9	12 56.86 -04 29.5 17.6	-0.77 + 7.7	0.5/04.4	40127
1998 SR ₁₃₂	2000 04 04.9	12 56.91 -11 55.3 17.5	-0.98 + 5.9	2.4/06.7	40341
(14775)	2000 04 04.9	12 57.14 -03 53.7 17.7	-0.78 + 7.7	0.8/04.2	39925
(14051)	2000 04 04.9	12 57.24 +06 51.9 16.2	-0.93 + 6.1	5.7/31.7	39065
2000 ET ₄₁	2000 04 05.0	12 57.22 -00 23.1 17.1	-0.74 + 8.3	2.5/03.0	40478
1998 TW ₁₇	2000 04 05.0	12 57.34 -01 45.7 18.8	-0.93 + 5.5	1.5/03.7	40022
2110 T-3	2000 04 05.0	12 57.39 -12 56.8 16.5	-1.05 + 0.7	2.9/06.8	40534
1993 VX ₁	2000 04 05.0	12 57.43 -07 45.0 19.4	-0.84 + 4.7	0.4/05.6	39954
1998 YL ₈	2000 04 05.0	12 57.51 +12 58.3 17.4	-0.88 + 4.6	5.5/29.8	40350
1994 VU	2000 04 05.0	12 57.54 +10 05.7 18.3	-0.99 + 2.1	5.5/31.4	40307
2000 EO ₁₀₅	2000 04 05.0	12 57.57 +08 00.4 17.0	-0.84 + 2.7	4.5/31.7	40184
2000 GZ ₂₅	2000 04 05.1	12 57.61 -05 53.1 18.8	-0.95 + 4.8	0.1/05.0	40258
1998 UX ₁₅	2000 04 05.1	12 57.61 -03 39.0 18.2	-0.92 + 4.8	0.9/04.4	40344
2000 EM ₁₄₈	2000 04 05.1	12 57.63 -06 55.7 15.4	-1.12 + 1.7	0.3/05.3	40209
1998 RU ₇₉	2000 04 05.1	12 57.66 -02 55.2 18.2	-1.10 + 3.2	1.3/04.2	39999
1997 QA ₂	2000 04 05.1	12 57.76 -12 37.6 17.9	-0.83 + 5.4	2.2/07.2	40319
1998 UH ₄₀	2000 04 05.1	12 57.77 -08 53.7 19.5	-0.93 + 4.5	0.9/06.0	40345
(14489)	2000 04 05.1	12 57.77 -06 39.1 18.1	-0.99 + 3.9	0.2/05.3	39844
(14543)	2000 04 05.1	12 57.85 -12 41.9 17.7	-0.70 + 7.9	1.9/07.5	39859
1999 CB ₁₇	2000 04 05.1	12 57.86 +16 15.7 17.3	-0.84 + 5.4	6.6/28.3	40070
2000 FC ₃₅	2000 04 05.1	12 57.93 -01 30.7 17.8	-0.84 + 6.0	1.6/03.7	40242
1993 FC ₂₀	2000 04 05.2	12 57.93 +05 46.2 17.4	-0.89 + 7.6	4.9/01.2	39947
2000 FN ₂₈	2000 04 05.2	12 57.95 -10 09.9 17.5	-0.86 + 5.9	1.6/06.5	40235
2000 EE ₁₅₁	2000 04 05.2	12 58.03 -00 13.4 16.7	-0.93 + 5.2	2.6/03.4	40494
2000 FK ₃₀	2000 04 05.2	12 58.04 -00 55.4 17.8	-1.06 + 4.3	2.3/03.7	40236
2000 FO ₃₀	2000 04 05.2	12 58.05 +00 57.2 18.3	-0.88 + 4.5	2.6/03.0	40237
(10257)	2000 04 05.2	12 58.06 -00 12.3 17.8	-0.66 + 4.7	1.5/03.2	33920
2000 FT ₁	2000 04 05.2	12 58.16 -05 58.7 19.9	-0.84 + 5.9	0.1/05.2	40217
1997 TY ₁₆	2000 04 05.2	12 58.20 -05 35.0 17.2	-0.66 +10.0	0.2/05.0	39982
1998 VU ₂₁	2000 04 05.2	12 58.22 -07 24.3 19.1	-1.05 + 4.4	0.4/05.6	40038
1998 UM ₂₉	2000 04 05.2	12 58.26 +11 56.2 18.3	-0.95 + 2.3	6.1/31.0	40030
(14441)	2000 04 05.3	12 58.32 -09 39.2 17.2	-0.94 + 3.1	1.1/06.3	39831
4528 P-L	2000 04 05.3	12 58.36 -06 12.1 18.5	-0.90 + 6.3	0.0/05.3	40531
2000 EN ₁₃₈	2000 04 05.3	12 58.38 +13 50.2 16.4	-0.70 + 9.6	7.4/28.3	40492
2000 FD ₃₅	2000 04 05.3	12 58.39 -01 21.0 18.1	-0.77 + 6.7	1.4/03.7	40242
2000 FA ₃₆	2000 04 05.3	12 58.41 +17 01.5 16.2	-0.91 + 6.7	9.2/27.8	40244
1998 VQ ₂₀	2000 04 05.3	12 58.51 +00 44.9 18.8	-0.95 + 4.4	2.4/03.3	40037
(14544)	2000 04 05.3	12 58.52 -09 47.9 17.4	-0.71 + 6.6	1.0/06.6	39859
2000 FZ ₃₅	2000 04 05.3	12 58.61 +18 01.9 17.0	-0.92 + 3.5	9.7/28.5	40244
(14776)	2000 04 05.4	12 58.65 -07 47.2 17.1	-0.80 + 5.1	0.5/05.9	39926
1993 FZ ₁₁	2000 04 05.4	12 58.66 +00 07.8 17.9	-1.00 + 5.0	2.2/03.5	39946
2030 T-2	2000 04 05.4	12 58.80 -06 47.3 18.7	-0.90 + 4.7	0.2/05.6	40533
2000 EA ₁₅₀	2000 04 05.4	12 58.90 +16 38.1 16.4	-0.80 + 5.6	8.4/28.3	40494

(9848)	2000 04 05.4	12 59.01 -07 56.5 17.3	-0.93 + 5.9	0.5/06.0	33457
(14390)	2000 04 05.4	12 59.06 -08 05.8 16.8	-0.77 + 3.1	0.5/06.1	39816
1994 WX ₁	2000 04 05.4	12 59.07 -10 42.6 17.6	-0.89 + 6.1	1.7/07.0	39959
1998 TK ₁₇	2000 04 05.5	12 59.00 -06 20.2 17.1	-1.05 + 1.9	0.0/05.5	40021
1999 BD ₄	2000 04 05.5	12 59.17 -07 10.1 16.5	-0.80 + 3.8	0.3/05.8	40351
1996 HS ₂₅	2000 04 05.5	12 59.29 -11 34.4 17.1	-0.75 +11.0	2.0/07.5	39969
1999 BQ ₂₈	2000 04 05.5	12 59.31 -06 32.8 19.8	-0.72 + 4.3	0.1/05.6	40352
(14389)	2000 04 05.5	12 59.35 -02 29.9 17.5	-0.74 + 4.9	1.1/04.3	39815
1998 WT ₂₀	2000 04 05.5	12 59.41 -08 01.7 15.2	-0.88 + 9.0	0.8/06.2	40348
1999 AQ	2000 04 05.6	12 59.39 +10 47.0 18.7	-0.74 + 5.3	4.8/30.7	40351
2000 EW ₁₃₈	2000 04 05.6	12 59.44 +15 34.0 17.3	-1.01 + 3.6	8.4/29.9	40492
2000 FZ ₂₂	2000 04 05.6	12 59.52 +11 38.9 17.8	-1.04 + 0.5	6.6/31.7	40229
1998 SR ₁₃₄	2000 04 05.6	12 59.55 -05 02.2 18.5	-0.89 + 7.1	0.4/05.2	40015
2000 FJ ₃₀	2000 04 05.6	12 59.66 -00 45.2 17.9	-0.79 + 5.9	1.9/03.8	40236
1994 QN	2000 04 05.6	12 59.66 +26 41.0 18.6	-1.10 + 1.5	9.9/26.2	39522
1998 RT ₇₂	2000 04 05.6	12 59.82 -06 49.6 18.2	-0.98 + 5.2	0.2/05.8	40335
(10039)	2000 04 05.7	12 59.74 -13 02.2 17.3	-0.80 + 5.8	1.9/07.9	33867
2000 FU ₅	2000 04 05.7	12 59.75 -07 19.1 18.6	-1.04 + 2.4	0.4/06.0	40219
1998 SR ₁₄₆	2000 04 05.7	12 59.75 -06 15.8 18.5	-1.05 + 4.3	0.0/05.7	40017
2000 FQ ₄₈	2000 04 05.7	12 59.76 -20 45.8 16.4	-0.71 + 6.8	3.7/10.8	40254
(14162)	2000 04 05.7	12 59.80 +08 49.4 17.5	-1.01 + 2.7	4.9/01.4	39097
1998 UW ₇	2000 04 05.7	12 59.82 -00 30.9 17.3	-0.82 + 8.3	2.1/03.7	40344
1997 TM ₁₃	2000 04 05.7	12 59.89 -07 25.7 17.9	-0.96 + 5.4	0.4/06.1	39982
(10641)	2000 04 05.7	13 00.10 -05 47.4 17.8	-0.75 + 4.3	0.2/05.6	34473
1994 XD ₅	2000 04 05.7	13 00.13 +02 30.7 18.3	-0.87 + 5.1	2.9/03.0	40307
2000 FU ₄₈	2000 04 05.8	13 00.10 -18 34.5 17.6	-0.95 + 5.8	4.9/09.7	40254
2000 CP ₅₈	2000 04 05.8	13 00.12 +11 43.2 17.3	-0.95 + 5.1	6.8/31.1	40453
(14346)	2000 04 05.8	13 00.19 -04 28.9 17.7	-0.73 + 4.3	0.5/05.2	39803
4817 P-L	2000 04 05.8	13 00.21 -03 27.9 19.0	-0.86 + 8.4	1.0/04.8	15904
1997 PN ₅	2000 04 05.8	13 00.29 -25 39.5 18.2	-0.92 + 4.3	5.6/12.0	40318
2000 ED ₁₅₁	2000 04 05.8	13 00.40 +03 59.7 16.1	-0.77 +11.0	4.7/01.9	40211
(14617)	2000 04 05.8	13 00.45 +11 58.2 17.8	-0.77 + 4.8	5.0/30.6	39881
(11353)	2000 04 05.8	13 00.49 -07 33.5 17.6	-0.78 + 5.0	0.3/06.2	35579
2000 EJ ₁₀₄	2000 04 05.8	13 00.51 -04 22.2 16.8	-0.84 + 9.4	0.9/05.2	40488
1993 RS ₆	2000 04 05.9	13 00.49 -10 02.4 17.4	-0.85 + 5.9	1.3/07.1	39951
1998 RF ₇₉	2000 04 05.9	13 00.56 +00 08.5 17.6	-1.06 + 3.9	2.6/04.1	39999
2000 FZ ₂₈	2000 04 05.9	13 00.58 -12 04.6 17.4	-1.01 + 5.0	2.4/07.6	40235
1998 TJ ₁₃	2000 04 05.9	13 00.68 -03 54.4 18.1	-1.03 + 5.1	1.0/05.2	40020
1997 SE ₄	2000 04 05.9	13 00.76 -07 02.8 18.1	-0.80 + 4.4	0.2/06.1	40319
(11619)	2000 04 05.9	13 00.81 +05 17.3 16.4	-0.87 + 6.6	4.3/02.0	39510
2000 FL ₂₉	2000 04 05.9	13 00.87 -07 40.2 17.8	-0.85 + 4.0	0.4/06.4	40235
1993 TV ₁₅	2000 04 06.0	13 00.83 -05 17.9 20.0	-0.91 + 4.5	0.4/05.6	40304
2000 CO ₅₈	2000 04 06.0	13 00.85 +09 31.6 16.8	-0.96 + 3.3	6.8/01.0	40453
2000 GS ₂₅	2000 04 06.0	13 00.90 -06 20.9 18.1	-0.76 + 5.1	0.0/06.0	40258
2000 ET ₁₄₈	2000 04 06.0	13 00.92 -09 04.7 16.5	-0.88 + 5.7	1.1/06.8	40493
1997 PJ ₄	2000 04 06.0	13 00.93 -27 06.0 16.8	-0.92 + 4.9	6.5/13.0	40318
2000 AB ₁₆₈	2000 04 06.0	13 00.95 +09 54.8 17.2	-0.73 + 4.8	4.9/31.4	40441
2000 FJ ₂₉	2000 04 06.0	13 00.96 -09 08.4 17.8	-0.82 + 4.5	0.8/06.9	40235
1998 XA ₄₀	2000 04 06.0	13 01.01 -03 23.2 18.1	-0.86 + 2.1	1.0/05.1	40053
1996 MB	2000 04 06.0	13 01.07 -08 42.4 17.9	-0.87 + 5.2	0.8/06.7	39971
2000 EO ₁₄₈	2000 04 06.0	13 01.07 -03 43.6 16.7	-1.04 + 4.7	1.1/05.2	40209

1984 WL	2000 04 06.0	13 01.11	-41 20.3	18.7	-1.10	+10.0	11.8/21.1	27305	1982 VL ₄	2000 04 06.7	13 03.43	+09 45.6	18.5	-0.82	+ 2.6	4.5/01.6	40291
2000 FM ₂₉	2000 04 06.1	13 01.21	-06 16.5	17.4	-0.95	+ 8.0	0.1/06.0	40236	2000 EF ₁₀₈	2000 04 06.7	13 03.44	+05 43.4	16.2	-0.77	+ 7.5	4.3/02.3	40187
2000 FT ₂₄	2000 04 06.1	13 01.30	+15 43.8	17.8	-0.98	+ 0.7	9.1/31.0	40230	1998 WH ₇	2000 04 06.7	13 03.50	-15 28.3	19.2	-0.94	+ 6.9	3.1/09.5	34030
(11274)	2000 04 06.1	13 01.35	-06 50.3	19.7	-0.60	+ 3.4	0.1/06.2	35560	6774 P-L	2000 04 06.7	13 03.53	-08 39.9	18.0	-1.08	+ 0.6	0.7/07.0	40531
1998 QY ₉₁	2000 04 06.1	13 01.36	-03 12.8	18.5	-0.98	+ 5.1	1.1/05.1	40332	1998 WY ₆	2000 04 06.7	13 03.62	-13 31.0	17.2	-1.01	+ 3.2	2.7/08.7	40347
1998 SA ₁₀₉	2000 04 06.1	13 01.41	-12 54.8	16.6	-1.01	+ 5.2	2.6/08.1	40339	1993 TW ₈	2000 04 06.7	13 03.66	-06 26.8	18.0	-0.93	+ 2.5	0.1/06.7	40303
1998 SO ₁₀₁	2000 04 06.1	13 01.41	-08 16.9	18.8	-1.01	+ 5.3	0.7/06.7	40010	(14609)	2000 04 06.7	13 03.75	-03 09.5	16.5	-0.90	+ 5.6	1.6/05.6	39879
2000 GM ₂₇	2000 04 06.1	13 01.43	-05 49.0	17.8	-0.75	+ 4.9	0.2/05.9	40259	2000 FC ₄₆	2000 04 06.7	13 03.77	+06 08.5	17.5	-0.74	+ 3.6	3.4/02.6	40252
2000 FA ₃₇	2000 04 06.2	13 01.68	-01 22.7	17.4	-0.77	+ 4.6	1.7/04.5	40244	2000 EF ₁₄₈	2000 04 06.7	13 03.79	-03 50.6	17.8	-0.68	+ 6.5	0.8/05.8	40208
1981 EJ ₃₁	2000 04 06.2	13 01.71	-01 44.2	18.0	-0.82	+ 8.3	2.0/04.6	39932	1981 DJ ₃	2000 04 06.7	13 03.82	-18 15.7	19.4	-0.86	+ 5.2	3.7/10.5	26914
1998 WH ₈	2000 04 06.2	13 01.76	-00 50.4	17.9	-0.91	+ 4.6	1.9/04.5	40347	1990 VV ₁	2000 04 06.8	13 03.85	-11 21.1	17.4	-0.85	+ 7.8	1.4/08.4	40296
3130 T-2	2000 04 06.2	13 01.78	-01 26.1	17.2	-0.87	+ 2.8	1.8/04.7	40533	2000 FG ₄₉	2000 04 06.8	13 03.87	-09 03.0	17.7	-0.98	+ 6.2	0.9/07.0	40254
2000 EU ₀₆	2000 04 06.2	13 01.82	-18 09.6	15.6	-1.02	- 1.3	4.0/09.1	40179	1981 EA ₂₁	2000 04 06.9	13 04.19	-08 05.0	18.0	-0.83	+ 4.9	0.4/07.3	39932
1998 QW ₉₂	2000 04 06.2	13 01.83	-02 17.4	18.1	-0.94	+ 5.1	1.4/05.0	39990	1998 XC ₄₇	2000 04 06.9	13 04.30	-03 57.7	18.3	-0.94	+ 5.0	0.9/06.1	40054
1998 QL ₉₂	2000 04 06.2	13 01.85	-05 30.0	17.2	-0.92	+ 6.4	0.4/05.9	40332	(14063)	2000 04 06.9	13 04.34	-02 33.6	15.6	-0.89	+ 5.3	1.9/05.6	39068
1989 SE	2000 04 06.2	13 01.85	-08 30.9	18.4	-0.93	+ 3.8	0.6/06.8	40294	2000 ER ₁₄₈	2000 04 06.9	13 04.40	-07 18.4	17.2	-1.07	+ 3.2	10.8/18.0	40209
2000 EK ₁₄₈	2000 04 06.2	13 01.90	-04 49.4	17.6	-0.81	+ 2.7	0.5/05.7	40208	1998 QK ₉₃	2000 04 06.9	13 04.45	-05 13.5	16.4	-1.03	+ 1.0	0.6/06.5	39991
1998 TR ₃₄	2000 04 06.2	13 01.91	+01 43.2	17.5	-0.91	+ 4.1	3.0/03.8	40343	1998 YE ₁₂	2000 04 07.0	13 04.83	+10 22.7	17.9	-0.77	+ 4.2	4.7/01.3	40061
1999 AL ₂	2000 04 06.2	13 01.94	-16 54.4	17.1	-0.83	+ 3.1	2.9/09.5	40351	2000 EY ₁₃₉	2000 04 07.0	13 04.85	+10 24.9	16.8	-0.84	+ 4.0	6.0/01.4	40493
2000 EU ₁₄₈	2000 04 06.2	13 02.00	-06 28.9	17.0	-1.00	+ 5.3	0.0/06.3	40210	(14329)	2000 04 07.0	13 04.89	-08 02.5	18.0	-0.90	+ 6.7	0.4/07.5	39797
(9927)	2000 04 06.3	13 02.08	-13 39.8	17.0	-1.01	+ 7.7	2.6/08.6	33654	1998 ST ₂₄	2000 04 07.0	13 04.91	+01 39.9	18.2	-0.99	+ 6.1	3.3/04.5	40003
2000 EJ ₁₄₈	2000 04 06.3	13 02.17	-03 23.9	17.9	-0.78	+ 7.9	1.0/05.2	40208	2000 AC ₁₅₃	2000 04 07.1	13 04.92	+04 10.8	16.2	-0.98	+ 5.8	5.1/03.6	40093
(10023)	2000 04 06.3	13 02.21	-03 34.4	17.8	-0.90	+ 5.8	1.0/05.4	33863	1999 BS ₉	2000 04 07.1	13 04.97	-17 39.8	17.0	-0.95	+ 2.7	3.3/10.2	40351
1998 VT ₉	2000 04 06.3	13 02.23	-04 29.3	17.2	-0.97	+ 4.4	0.9/05.7	40036	1998 XA ₄	2000 04 07.1	13 05.06	+00 39.0	17.0	-0.98	+ 3.7	2.5/05.0	40349
1998 SM ₈	2000 04 06.3	13 02.26	-05 57.8	18.2	-0.93	+ 6.8	0.3/06.2	40001	2000 FN ₃₈	2000 04 07.1	13 05.11	-01 53.4	18.2	-1.01	+ 3.7	1.8/05.7	40246
1998 VV ₂₈	2000 04 06.3	13 02.34	-16 18.9	17.8	-0.97	+ 5.6	3.4/09.4	40346	(13575)	2000 04 07.1	13 05.20	+00 39.3	16.3	-1.02	+ 1.2	3.6/05.2	38336
(14557)	2000 04 06.3	13 02.35	+02 50.8	18.2	-0.81	+ 3.4	2.8/03.5	39863	1997 YO ₁₄	2000 04 07.2	13 05.27	-13 19.4	17.6	-0.90	+ 4.7	2.0/09.2	40321
(14480)	2000 04 06.3	13 02.36	-00 17.6	17.6	-0.92	+ 7.5	2.1/04.3	39842	(14575)	2000 04 07.2	13 05.39	-05 57.9	17.8	-0.95	+ 6.7	0.3/06.9	39868
1997 PJ ₂	2000 04 06.4	13 02.30	+00 44.4	19.9	-0.87	+ 5.9	2.3/04.0	40318	(10356)	2000 04 07.2	13 05.41	-08 36.4	17.8	-0.83	+ 5.8	0.5/07.8	34149
1998 SK ₁₂₄	2000 04 06.4	13 02.34	-03 56.7	17.4	-1.00	+ 4.2	1.1/05.6	40012	1999 CV ₁₃₆	2000 04 07.2	13 05.45	-12 35.4	19.2	-0.86	+ 4.8	1.7/09.0	40352
1999 BM ₁	2000 04 06.4	13 02.40	-08 44.6	18.4	-0.94	+ 5.2	0.7/07.0	40351	1998 TK ₅	2000 04 07.2	13 05.47	+02 18.9	16.9	-0.99	+ 3.2	3.6/04.6	40342
5137 T-2	2000 04 06.4	13 02.59	-13 45.1	16.9	-0.75	+12.4	2.7/09.2	40533	2000 FD ₃₇	2000 04 07.2	13 05.51	-00 36.6	17.9	-0.81	+ 5.7	2.1/05.2	40245
2075 T-3	2000 04 06.4	13 02.68	-09 36.5	18.1	-0.88	+ 5.2	0.9/07.4	40534	2000 EG ₁₁₄	2000 04 07.3	13 05.59	-08 08.0	17.2	-1.05	+ 3.0	0.5/07.6	40192
(14475)	2000 04 06.4	13 02.71	+08 36.1	18.7	-0.92	+ 3.4	4.7/01.8	39840	1981 EX ₁₄	2000 04 07.3	13 05.77	-09 12.5	18.0	-0.76	+ 8.2	0.8/08.1	40290
1998 WM ₁₅	2000 04 06.4	13 02.74	+05 48.5	17.9	-0.92	+ 4.5	4.4/02.7	40045	(14654)	2000 04 07.3	13 05.90	-05 36.2	18.0	-0.72	+ 4.7	0.4/06.9	39892
2000 FB ₃₇	2000 04 06.5	13 02.66	-00 13.0	17.4	-0.89	+ 7.6	2.5/04.4	40245	(10355)	2000 04 07.3	13 05.95	-07 52.3	16.2	-1.08	+ 2.0	0.4/07.6	34149
(14427)	2000 04 06.5	13 02.76	-07 38.5	17.5	-0.96	+ 7.6	0.3/06.8	39826	1998 SM ₁₄₅	2000 04 07.3	13 05.96	-02 27.4	15.7	-1.05	+ 1.5	2.1/06.2	40342
1998 SO ₂	2000 04 06.5	13 02.77	+14 01.1	18.9	-0.94	+ 2.7	6.5/31.3	40336	2000 CY ₉₄	2000 04 07.3	13 05.98	-00 08.4	16.0	-0.94	+ 4.0	3.2/05.3	40108
(10141)	2000 04 06.5	13 02.82	+03 02.6	16.6	-1.01	+ 1.9	3.3/03.8	33891	1997 VF ₁	2000 04 07.3	13 06.03	-13 22.0	18.5	-0.85	+ 2.4	1.6/09.3	40321
1998 YZ ₁₁	2000 04 06.5	13 02.86	-09 17.7	17.5	-0.84	+ 5.6	0.8/07.4	40060	1998 UW ₃₄	2000 04 07.4	13 06.00	-10 26.3	19.3	-0.92	+ 7.2	1.2/08.5	34307
(14371)	2000 04 06.5	13 02.99	-03 13.8	17.6	-1.00	+ 5.5	1.3/05.5	39810	1993 QF ₉	2000 04 07.4	13 06.03	-01 11.1	18.3	-0.89	+ 7.2	2.3/05.5	39950
1998 VO ₂₂	2000 04 06.5	13 03.12	-06 44.2	18.8	-1.05	+ 5.1	0.0/06.6	40346	2000 EF ₁₅₁	2000 04 07.4	13 06.03	+02 52.3	17.2	-0.71	+ 6.4	2.7/04.0	40212
1998 UH ₇	2000 04 06.6	13 03.02	+02 53.8	18.7	-0.92	+ 5.6	3.4/03.6	40025	6762 P-L	2000 04 07.4	13 06.05	-04 45.5	18.7	-1.01	+ 4.1	0.9/06.8	40531
2000 FK ₃₇	2000 04 06.6	13 03.03	+01 34.3	18.2	-0.99	+ 5.0	2.9/04.1	40245	1975 SE ₂	2000 04 07.4	13 06.06	-02 17.7	18.5	-0.97	+ 3.8	1.6/06.1	40288
1998 YJ ₄	2000 04 06.6	13 03.04	+01 19.7	17.5	-0.68	+ 7.0	2.3/03.8	40059	1993 TR ₂₈	2000 04 07.4	13 06.06	-02 38.6	18.1	-0.81	+ 6.0	1.5/06.0	39953
1998 XQ	2000 04 06.6	13 03.07	-05 40.5	19.0	-0.86	+ 5.3	0.3/06.3	40047	1981 EQ ₄₁	2000 04 07.4	13 06.07	-12 10.4	18.4	-0.85	+ 4.0	1.6/09.0	39933
1998 YD ₂	2000 04 06.6	13 03.07	-12 16.3	18.3	-0.75	+ 4.1	1.4/08.4	40058	2000 EL ₁₃₇	2000 04 07.4	13 06.13	+09 04.1	17.1	-0.93	+ 6.5	6.7/02.0	40203
1991 VN ₈	2000 04 06.6	13 03.17	-04 30.7	18.0	-0.99	+ 6.6	0.9/05.9	39944	2000 FM ₃₈	2000 04 07.4	13 06.17	-02 12.8	17.2	-0.82	+ 5.6	1.8/05.9	40246
1998 XF ₅	2000 04 06.6	13 03.32	+15 12.2	18.3	-0.85	+ 4.6	6.3/30.4	40049	2000 AA ₁₆₈	2000 04 07.4	13 06.21	+09 47.4	15.8	-0.87	+ 8.0	7.1/01.5	40441
2000 FV ₃₀	2000 04 06.6	13 03.33	+01 25.9	18.2	-0.95	+ 2.5	2.6/04.4	40237	1998 SY ₃₁	2000 04 07.4	13 06.23	-05 32.7	18.6	-0.94	+ 7.8	0.5/07.0	40337
1997 QE ₅	2000 04 06.7	13 03.42	+03 26.2	21.0	-0.76	+ 5.4	2.6/03.3	35701	(10228)	2000 04 07.4	13 06.37	-19 54.5	17.3	-0.80	+ 3.7	3.5/11.6	33913

2000 APR. 18

M.P.C. 40555

1981 EF₃₃ 2000 04 07.5 13 06.33 -09 56.0 18.0 -0.78 + 9.9 1.3/08.5 39933
 1997 QJ₃ 2000 04 07.5 13 06.36 -06 06.2 17.8 -0.86 + 7.9 0.3/07.2 39979
 (10005) 2000 04 07.5 13 06.39 -06 42.6 17.4 -1.00 + 4.9 0.1/07.4 33859
 2000 GF₉₉ 2000 04 07.5 13 06.45 -12 11.9 17.5 -0.92 + 6.6 1.9/09.2 40269
 (14658) 2000 04 07.5 13 06.47 -21 06.1 16.8 -0.81 + 4.6 4.2/12.0 39893
 1981 EQ₄₃ 2000 04 07.5 13 06.49 -06 42.3 18.0 -0.87 + 6.3 0.2/07.4 40291
 1998 XU₄ 2000 04 07.5 13 06.50 -05 19.6 17.7 -0.83 + 4.3 0.6/07.0 40049
 1999 AK₂₁ 2000 04 07.5 13 06.53 +15 46.3 18.3 -0.84 + 6.2 6.6/30.4 40066
 2000 FK₃₈ 2000 04 07.5 13 06.76 -02 18.4 18.1 -0.75 + 4.3 1.3/06.1 40246
 2000 FF₃₇ 2000 04 07.6 13 06.73 -01 05.0 17.5 -0.90 + 4.3 2.4/05.8 40245
 (13813) 2000 04 07.6 13 06.84 +11 13.5 17.3 -0.77 + 3.9 5.3/01.6 38403
 2000 EJ₉₇ 2000 04 07.6 13 06.86 -12 21.5 17.5 -0.91 + 8.5 2.1/09.4 40180
 1996 HU₂₅ 2000 04 07.6 13 06.87 -02 41.0 17.9 -0.83 + 5.5 1.4/06.2 40312
 (11005) 2000 04 07.6 13 06.95 -20 13.8 18.2 -0.90 + 4.4 3.9/11.8 35212
 2038 P-L 2000 04 07.6 13 06.98 -12 27.9 17.0 -0.91 + 8.7 2.2/09.5 40530
 1994 SF₁₀ 2000 04 07.6 13 06.99 -05 58.9 19.4 -0.94 + 5.2 0.4/07.3 39958
 (14155) 2000 04 07.6 13 07.01 -10 09.0 17.0 -0.95 + 7.4 1.2/08.6 39096
 (10080) 2000 04 07.6 13 07.04 +05 53.2 16.8 -0.70 + 7.7 3.7/02.9 33877
 2000 EV₁₀₅ 2000 04 07.6 13 07.06 +09 07.6 17.4 -0.75 + 5.1 5.3/02.2 40488
 1994 CX₁₀ 2000 04 07.6 13 07.09 -02 51.2 17.5 -0.75 + 4.7 1.4/06.3 40305
 2000 EE₂₀ 2000 04 07.7 13 07.10 -03 50.6 16.8 -0.69 + 6.7 0.9/06.6 40133
 1999 CT₆₄ 2000 04 07.7 13 07.22 -07 26.8 18.0 -0.68 + 7.1 0.1/07.8 40072
 1991 PP₁₃ 2000 04 07.7 13 07.23 -20 24.6 17.5 -0.83 + 2.9 3.6/11.8 40297
 1996 RQ₁₃ 2000 04 07.7 13 07.29 -08 35.7 19.2 -0.72 + 4.1 0.4/08.2 39973
 1998 XQ₆₃ 2000 04 07.8 13 07.45 -18 58.7 17.4 -1.02 + 3.6 4.2/11.3 40055
 1989 CR₁ 2000 04 07.8 13 07.49 -23 34.6 16.4 -0.85 + 7.0 7.6/13.6 40293
 1979 ON₁ 2000 04 07.8 13 07.53 +00 54.7 19.4 -0.72 + 5.2 2.2/05.1 40289
 (13031) 2000 04 07.8 13 07.60 -01 54.3 16.1 -0.80 + 7.0 2.1/06.1 37495
 (9914) 2000 04 07.8 13 07.62 -02 01.4 18.3 -0.85 + 4.8 1.5/06.2 33651
 1998 SX₁₂₃ 2000 04 07.8 13 07.72 -05 31.1 18.4 -0.98 + 5.0 0.6/07.4 40340
 (14597) 2000 04 07.8 13 07.73 -02 21.3 17.3 -0.97 + 5.5 2.0/06.4 39875
 1998 TG₃₂ 2000 04 07.8 13 07.77 -10 27.4 17.4 -1.03 + 5.6 1.3/08.8 40343
 (14625) 2000 04 07.8 13 07.78 +10 29.8 16.3 -0.95 + 2.1 5.7/02.8 39884
 (9855) 2000 04 07.8 13 07.81 +06 25.1 17.2 -0.82 + 6.8 4.4/03.2 33458
 (9887) 2000 04 07.8 13 07.85 -01 21.2 17.8 -0.84 + 5.8 1.9/06.0 33466
 2000 EW₉₆ 2000 04 07.8 13 07.86 -18 14.9 16.6 -1.07 + 0.7 4.0/10.7 40180
 1997 SA₃ 2000 04 07.9 13 07.80 -07 35.2 17.4 -0.81 + 6.2 0.1/08.0 40319
 1996 TR₁₄ 2000 04 07.9 13 07.84 -05 00.2 16.6 -0.82 + 3.0 0.7/07.3 40313
 1999 AS 2000 04 07.9 13 07.85 -02 27.8 17.7 -0.89 + 4.3 1.5/06.5 40351
 1992 EB₂₆ 2000 04 07.9 13 07.90 -16 04.1 18.0 -1.07 + 2.4 3.5/10.4 40299
 1998 QJ₉₂ 2000 04 07.9 13 07.93 -02 44.0 18.8 -0.97 + 5.3 1.5/06.6 40332
 1998 RO₆₁ 2000 04 07.9 13 08.15 -08 56.2 19.1 -0.98 + 7.4 0.6/08.5 39996
 2000 FN₄₇ 2000 04 07.9 13 08.17 -03 40.2 17.5 -0.87 + 3.8 1.2/06.9 40253
 1994 ED₆ 2000 04 07.9 13 08.22 +02 24.3 17.6 -0.73 + 5.2 3.0/04.8 40305
 1998 YL₁₆ 2000 04 08.0 13 08.26 +01 04.7 18.3 -0.72 + 4.8 2.2/05.3 40351
 1994 VL 2000 04 08.0 13 08.28 -06 27.0 18.6 -0.96 + 3.9 0.3/07.8 40307
 1994 PV₁₉ 2000 04 08.0 13 08.33 -09 26.6 17.6 -0.96 + 5.8 0.8/08.7 40306
 1998 SO₁₆₁ 2000 04 08.0 13 08.38 -05 33.4 18.7 -1.10 + 3.0 0.7/07.6 40018
 2000 EN₁₄₈ 2000 04 08.0 13 08.40 -04 44.3 16.4 -0.69 + 7.2 1.0/07.2 40209
 (10020) 2000 04 08.0 13 08.41 -14 57.4 16.8 -0.78 + 4.1 2.4/10.5 33862
 1998 VH₃₁ 2000 04 08.0 13 08.45 -05 02.1 18.1 -0.95 + 5.4 0.7/07.4 40346

2000 GL₃₃ 2000 04 08.0 13 08.47 -08 23.5 16.9 -0.80 +11.8 0.5/08.5 40259
 2000 FH₃₇ 2000 04 08.1 13 08.64 +00 35.5 18.4 -0.68 + 6.1 2.0/05.4 40245
 2000 AC₂₀₅ 2000 04 08.1 13 08.66 +07 37.0 16.8 -1.22 + 0.3 5.1/04.4 40443
 (14600) 2000 04 08.1 13 08.69 -02 27.6 18.3 -0.86 + 6.7 1.7/06.6 39876
 1998 WD₉ 2000 04 08.1 13 08.88 -09 28.6 18.3 -0.90 + 8.8 0.8/08.9 40347
 2000 FC₆ 2000 04 08.1 13 08.95 -06 53.0 19.0 -0.71 + 4.5 0.1/08.1 40220
 1989 WD₃ 2000 04 08.2 13 08.89 -13 11.0 16.9 -0.83 + 6.5 2.0/10.1 40294
 2000 EL₉₇ 2000 04 08.2 13 08.90 -17 31.6 16.8 -0.94 + 6.2 4.2/11.5 40487
 1995 XL 2000 04 08.2 13 08.91 -11 56.5 18.9 -1.00 + 7.1 1.8/09.7 32946
 2000 GN₉₂ 2000 04 08.2 13 08.94 -07 19.6 18.3 -0.74 + 4.9 0.0/08.2 40267
 1998 WC₁ 2000 04 08.2 13 08.97 +27 19.2 18.6 -0.98 + 4.4 10.4/27.0 34029
 2000 FW₄₁ 2000 04 08.2 13 08.98 +02 06.3 18.3 -0.73 + 5.0 2.9/05.1 40250
 2000 EQ₁₃₈ 2000 04 08.2 13 09.00 +15 16.0 17.2 -0.81 + 8.2 8.3/30.6 40492
 (10158) 2000 04 08.2 13 09.03 -01 36.9 17.3 -0.94 + 4.5 1.8/06.5 33895
 2000 FA₃₈ 2000 04 08.2 13 09.05 +02 41.8 18.7 -0.94 + 3.6 4.0/05.4 40246
 1985 RQ 2000 04 08.2 13 09.12 -07 23.3 18.7 -0.94 + 4.1 0.0/08.3 40292
 2000 ET₉₆ 2000 04 08.2 13 09.13 -12 10.3 16.8 -0.68 + 8.7 1.5/10.0 40179
 1997 MZ 2000 04 08.2 13 09.33 -29 54.4 18.9 -0.97 + 5.4 7.4/16.0 33698
 2000 FB₃₉ 2000 04 08.3 13 09.49 -01 49.7 18.3 -1.19 + 1.8 2.1/06.9 40247
 2000 ED₁₃₉ 2000 04 08.3 13 09.52 +13 14.8 17.0 -1.00 0.0 8.3/02.6 40204
 (14076) 2000 04 08.3 13 09.56 -18 32.5 16.5 -0.85 + 2.7 3.7/11.7 39072
 4302 T-1 2000 04 08.3 13 09.56 -01 30.2 17.5 -0.92 + 3.3 2.3/06.7 40532
 2000 FQ₃₈ 2000 04 08.3 13 09.57 -01 58.7 18.0 -0.82 + 6.5 1.9/06.6 40246
 2000 GT₃₃ 2000 04 08.3 13 09.59 -09 31.7 18.0 -0.77 + 4.0 0.8/09.0 40259
 1998 XM₄₀ 2000 04 08.3 13 09.62 -28 44.0 19.1 -0.83 + 5.1 6.4/15.9 35343
 1998 VL₃₅ 2000 04 08.3 13 09.67 -23 41.5 18.2 -0.89 + 5.7 4.9/13.8 34596
 (14649) 2000 04 08.3 13 09.70 -02 40.3 17.3 -0.94 + 0.5 1.4/07.2 39890
 1981 EQ₄₆ 2000 04 08.4 13 09.64 -03 52.3 19.2 -0.78 + 5.7 1.0/07.3 39934
 (10185) 2000 04 08.4 13 09.66 -01 39.9 16.5 -0.94 + 4.2 2.2/06.7 33902
 1998 TR₁₅ 2000 04 08.4 13 09.73 -09 52.0 17.2 -1.03 + 3.1 1.1/09.1 40021
 1990 GF 2000 04 08.4 13 09.74 -07 51.7 17.3 -0.80 + 5.3 0.2/08.6 39939
 1997 TS₂₂ 2000 04 08.4 13 09.74 -08 35.1 18.0 -0.80 + 4.4 0.4/08.8 40320
 1441 T-2 2000 04 08.4 13 09.74 -08 47.0 18.7 -0.83 + 4.3 0.4/08.9 40280
 1981 UC₂₆ 2000 04 08.4 13 09.77 -03 47.5 18.3 -0.73 + 5.1 1.0/07.2 40291
 2000 EY₁₀₃ 2000 04 08.4 13 09.82 -19 42.6 17.2 -0.97 + 6.7 4.7/12.5 40182
 2000 EX₁₁₂ 2000 04 08.4 13 09.89 -05 50.3 17.9 -0.91 + 4.9 0.5/08.0 40190
 1997 WZ₄₂ 2000 04 08.4 13 09.94 -04 24.3 18.8 -0.70 + 4.3 0.7/07.5 40321
 1998 VC₆ 2000 04 08.4 13 09.98 -09 24.5 19.9 -0.94 + 5.9 0.7/09.1 35724
 1998 VD₁₆ 2000 04 08.4 13 09.99 +01 47.4 19.4 -0.99 + 4.2 3.2/05.8 34028
 1980 PT₁ 2000 04 08.4 13 09.99 -21 05.6 17.1 -0.82 + 3.6 4.3/12.8 40289
 2000 EB₅₀ 2000 04 08.4 13 10.00 -01 23.3 17.6 -0.71 +11.2 2.3/06.2 40154
 1990 UR 2000 04 08.4 13 10.07 -09 35.8 17.7 -0.93 + 5.2 0.7/09.2 40295
 2000 FY₄₆ 2000 04 08.5 13 10.03 +08 43.3 17.7 -1.05 + 5.8 6.9/03.3 40252
 2000 CZ₉₄ 2000 04 08.5 13 10.10 +06 42.8 16.2 -0.81 + 6.5 5.7/03.7 40458
 1981 EE₃₂ 2000 04 08.5 13 10.11 -13 26.7 18.2 -0.87 + 8.0 2.4/10.6 39933
 2000 FW₂₄ 2000 04 08.5 13 10.13 +11 25.8 17.2 -0.97 + 0.6 7.3/03.3 40230
 1997 TC₉ 2000 04 08.5 13 10.18 -10 32.4 19.8 -0.81 + 7.0 0.9/09.6 30882
 1998 XC₉₆ 2000 04 08.5 13 10.19 -13 04.0 17.1 -0.77 + 4.0 1.7/10.3 40350
 1992 RA₂ 2000 04 08.5 13 10.21 -23 47.8 18.8 -0.92 + 2.2 4.6/13.4 30757
 1995 AB₁ 2000 04 08.5 13 10.26 +16 34.4 17.6 -0.82 + 5.3 7.3/31.2 39960
 2000 FE₂₃ 2000 04 08.5 13 10.28 +09 37.0 17.6 -0.74 + 4.3 4.6/02.8 40230

2000 FT ₃₈	2000 04 08.5	13 10.32	-02 26.4	18.1	-0.76	+	4.5	1.5/07.0	40247
(14765)	2000 04 08.5	13 10.33	-05 54.5	18.2	-0.87	+	3.7	0.5/08.1	39922
2000 EE ₁₀₈	2000 04 08.6	13 10.40	+07 53.1	16.5	-0.50	+10.4		7.3/02.1	40488
(14350)	2000 04 08.6	13 10.47	+21 29.0	17.2	-0.81	+	2.3	8.3/29.6	39804
(14324)	2000 04 08.6	13 10.50	-04 54.3	18.0	-0.82	+	5.7	0.8/07.8	39796
2000 FK ₆	2000 04 08.6	13 10.71	-07 09.8	18.3	-0.92	+	3.3	0.1/08.6	40220
1997 NZ ₃	2000 04 08.6	13 10.78	-28 26.1	19.8	-0.91	+	3.6	5.7/15.4	35700
2287 T-1	2000 04 08.7	13 10.78	-01 18.5	17.4	-0.90	+	7.6	2.2/06.7	40532
2000 ED ₂₀	2000 04 08.7	13 10.81	+03 28.0	16.7	-0.65	+23.4		4.5/03.8	40474
1981 EK ₂₉	2000 04 08.7	13 10.84	-10 26.8	19.2	-0.78	+	6.7	1.0/09.7	26920
2000 ES ₁₅₄	2000 04 08.7	13 11.08	+05 05.2	17.3	-0.99	+	3.9	5.2/05.1	40213
1998 YO ₃	2000 04 08.7	13 11.11	+05 40.4	17.9	-0.97	+	5.2	4.7/04.7	40350
1991 RB ₇	2000 04 08.8	13 11.19	-09 31.8	18.2	-1.04	+	4.6	0.7/09.4	40297
1998 SM ₁₄₀	2000 04 08.8	13 11.23	-10 58.6	18.3	-0.96	+	7.3	1.3/09.9	40017
1995 BB ₁₄	2000 04 08.8	13 11.43	-19 29.4	18.3	-0.92	+	4.4	3.7/12.5	34292
1995 DN	2000 04 08.8	13 11.43	+00 47.5	15.8	-0.76	+	7.9	2.8/05.9	39960
1997 PF ₄	2000 04 08.8	13 11.53	-17 19.4	18.1	-0.92	+	4.6	3.1/11.9	40318
2000 GF ₁₁₀	2000 04 08.8	13 11.54	-02 56.6	18.2	-1.06	-	0.4	2.0/07.8	40270
1998 TE	2000 04 08.9	13 11.46	-13 11.9	17.7	-0.95	+	7.9	2.1/10.7	40342
2000 FZ ₃₈	2000 04 08.9	13 11.47	+00 00.0	16.5	-0.85	+	8.5	3.3/06.3	40247
1990 QA ₉	2000 04 08.9	13 11.49	-04 43.5	17.6	-0.78	+	4.5	0.8/08.0	39940
(9889)	2000 04 08.9	13 11.53	-09 06.7	16.3	-0.81	+	4.8	0.5/09.4	33466
1989 SZ ₂	2000 04 08.9	13 11.55	-02 07.1	18.7	-0.80	+	7.8	1.6/07.1	40294
(14493)	2000 04 08.9	13 11.64	+07 01.4	18.4	-0.94	+	5.1	4.6/04.3	39845
2000 FH ₃₉	2000 04 08.9	13 11.70	-03 00.1	17.8	-0.79	+	4.3	1.5/07.5	40248
2000 GR ₃₂	2000 04 08.9	13 11.74	-06 15.0	18.6	-0.85	+	4.4	0.5/08.5	40259
2000 GF ₄	2000 04 08.9	13 11.74	-07 38.5	18.3	-0.94	+	5.7	0.0/09.0	40257
1998 SA ₂	2000 04 08.9	13 11.75	+01 30.2	20.4	-0.92	+	4.6	3.1/06.3	35716
1998 TM ₃₃	2000 04 08.9	13 11.88	-02 17.3	16.9	-1.08	+	2.4	2.5/07.6	40023
2000 ES ₁₀₈	2000 04 08.9	13 11.89	+01 44.8	16.4	-1.07	+	1.3	4.2/06.5	40488
1997 MY ₈	2000 04 09.0	13 11.85	-11 04.2	20.3	-0.85	+	5.5	1.0/10.1	35700
1993 UX ₂	2000 04 09.0	13 11.90	+15 00.7	19.1	-0.83	+	4.1	6.6/01.6	40304
1999 AJ ₂₀	2000 04 09.0	13 12.01	-08 58.0	19.3	-0.62	+	3.5	0.3/09.5	40351
1998 UF	2000 04 09.0	13 12.04	-51 43.7	18.4	-1.91	-	6.5	21.3/18.8	36085
1998 TK ₁₆	2000 04 09.0	13 12.08	+02 15.0	17.5	-0.88	+	7.4	3.7/05.8	40343
2000 FD ₃₉	2000 04 09.1	13 12.20	-01 17.1	18.2	-0.88	+	4.8	2.0/07.1	40247
2000 EM ₁₃₇	2000 04 09.1	13 12.21	+04 23.9	17.3	-1.04	+	0.1	5.6/06.1	40492
2000 FN ₆	2000 04 09.1	13 12.24	-07 09.8	18.2	-0.87	+	3.4	0.2/09.0	40220
2000 EN ₁₃₉	2000 04 09.1	13 12.28	+13 01.0	17.7	-0.89	+	4.0	6.5/02.6	40205
2000 CY ₁	2000 04 09.1	13 12.33	+05 40.2	18.0	-0.93	+	5.1	5.0/05.1	40448
1998 XK ₆₅	2000 04 09.1	13 12.34	-08 20.4	18.7	-0.93	+	5.0	0.2/09.3	40055
2000 EK ₁₁₄	2000 04 09.1	13 12.42	-10 40.8	16.4	-1.07	+	2.4	1.3/09.9	40192
2000 GT ₃₂	2000 04 09.1	13 12.48	-06 12.2	17.7	-0.79	+	6.2	0.5/08.7	40259
(14457)	2000 04 09.1	13 12.52	-11 30.4	17.5	-1.03	+	4.1	1.3/10.3	39835
2000 EZ ₁₃₃	2000 04 09.1	13 12.55	+08 50.9	17.3	-0.75	+	5.7	5.2/03.5	40491
1998 VZ ₅	2000 04 09.1	13 12.57	+03 44.7	18.3	-1.01	+	4.6	4.2/05.8	40345
1993 FS ₂₈	2000 04 09.1	13 12.57	-12 04.4	17.2	-0.96	+	6.9	1.8/10.6	40302
(14562)	2000 04 09.1	13 12.61	-02 31.1	17.9	-0.67	+	7.5	1.3/07.4	39864
(14589)	2000 04 09.1	13 12.62	-05 03.0	17.6	-0.88	+	8.1	1.0/08.3	39872
1997 UK ₁₀	2000 04 09.2	13 12.56	+02 30.8	17.9	-0.94	+	2.5	3.3/06.3	39983
2000 FV ₃₉	2000 04 09.2	13 12.61	-01 34.6	17.4	-1.05	+	0.9	2.2/07.6	40248

2000 FF ₃₈	2000 04 09.2	13 12.62	+01 27.3	18.1	-0.85	+	4.4	3.1/06.4	40246
1990 OK	2000 04 09.2	13 12.75	-16 25.5	17.7	-0.96	+	6.9	3.0/12.0	40294
1998 RG ₄	2000 04 09.2	13 12.79	+08 56.4	16.8	-0.73	+19.8		6.8/02.2	39992
2000 FF ₂₃	2000 04 09.2	13 12.83	+08 59.0	17.7	-0.85	+	3.7	5.7/04.1	40230
1998 XS ₂	2000 04 09.2	13 12.84	+01 57.4	17.7	-1.02	+	1.3	3.2/06.7	40048
2000 FF ₃₉	2000 04 09.2	13 12.85	-00 11.0	17.8	-0.97	+	7.0	3.2/06.9	40248
2000 EU ₁₁₂	2000 04 09.2	13 12.90	-05 29.7	17.3	-0.78	+	4.1	0.7/08.6	40190
(14531)	2000 04 09.2	13 12.95	-14 50.0	18.2	-0.83	+	4.5	2.1/11.5	39856
1991 PX ₁₀	2000 04 09.2	13 12.95	-04 08.2	18.3	-0.94	+	9.1	1.3/08.1	39941
2000 EZ ₁₁₂	2000 04 09.3	13 13.08	-05 12.3	17.4	-1.02	+	4.3	1.1/08.6	40191
1999 CF ₃₅	2000 04 09.3	13 13.11	-12 52.9	18.1	-0.79	+	2.8	1.3/10.9	40352
1998 RD ₆₂	2000 04 09.3	13 13.16	-12 04.8	16.8	-1.06	+	4.8	1.7/10.6	40334
2000 EJ ₁₅₁	2000 04 09.3	13 13.24	+10 41.2	17.5	-1.03	+	0.2	7.1/04.6	40494
(13643)	2000 04 09.3	13 13.28	+08 58.8	16.1	-1.02	-	0.1	6.6/05.1	38354
(14773)	2000 04 09.3	13 13.32	-05 09.4	17.5	-0.92	+	2.4	0.9/08.7	39925
1998 XL ₅₀	2000 04 09.3	13 13.32	-02 50.0	17.9	-0.84	+	4.5	1.6/07.9	40349
2000 EW ₁₄₈	2000 04 09.4	13 13.31	-09 35.7	16.6	-0.92	+	4.1	0.7/09.9	40210
2000 FW ₃₈	2000 04 09.4	13 13.38	-02 14.7	17.9	-0.87	+	6.0	2.0/07.7	40247
1998 WM ₅	2000 04 09.4	13 13.51	-02 48.9	16.8	-1.01	+	3.3	2.2/08.1	40347
1998 SM ₃₄	2000 04 09.4	13 13.53	-09 27.3	17.4	-1.10	+	2.6	0.6/09.9	40337
2000 FF ₄₀	2000 04 09.4	13 13.57	+02 30.6	17.9	-1.01	+	6.6	3.9/06.2	40249
1995 YX ₁	2000 04 09.4	13 13.62	-09 10.2	16.4	-0.93	+	7.0	0.6/09.9	40310
(14322)	2000 04 09.4	13 13.64	-12 37.8	17.0	-1.09	+	3.3	1.8/10.8	39795
1999 AA ₂₁	2000 04 09.4	13 13.74	-39 50.3	17.7	-1.30	-	0.4	10.2/18.1	35731
1990 QK ₄	2000 04 09.5	13 13.78	-04 51.9	18.4	-0.92	+	6.2	1.0/08.6	40295
1990 TX ₁₁	2000 04 09.5	13 13.82	-10 47.6	18.5	-0.92	+	5.6	1.0/10.5	40295
(10079)	2000 04 09.5	13 13.83	+02 50.3	19.2	-0.82	+	5.4	3.0/06.1	33877
1989 SJ ₁	2000 04 09.5	13 13.85	-02 46.6	19.5	-0.90	+	4.9	1.6/08.0	30289
1998 UP ₇	2000 04 09.5	13 13.88	-02 11.0	18.4	-1.03	+	3.1	2.1/08.0	40026
(14386)	2000 04 09.5	13 13.90	-15 12.0	17.2	-1.05	+	3.2	2.8/11.6	39814
1993 TL ₃₈	2000 04 09.5	13 13.96	+00 23.7	18.4	-0.84	+	4.0	2.5/07.1	40304
1998 XT ₃	2000 04 09.5	13 13.99	-18 45.5	17.9	-0.88	+	6.2	3.8/13.1	40349
2000 GD ₃₉	2000 04 09.5	13 14.03	-06 26.2	18.1	-0.90	+	4.5	0.5/09.2	40260
2000 EA ₁₁₃	2000 04 09.5	13 14.05	-03 14.0	17.4	-0.94	+	5.7	2.0/08.2	40489
1997 SA ₂	2000 04 09.6	13 14.29	-07 35.4	18.2	-0.78	+	4.0	0.1/09.6	40319
1990 TH ₇	2000 04 09.7	13 14.42	-08 14.6	18.5	-0.73	+	4.2	0.1/09.8	40295
2000 FN ₃₉	2000 04 09.7	13 14.60	-01 49.6	17.8	-0.96	+	5.4	2.7/07.9	40248
(10142)	2000 04 09.7	13 14.61	+06 56.9	17.1	-0.84	+	3.4	4.0/05.2	33891
(14191)	2000 04 09.7	13 14.61	-17 33.9	15.7	-0.90	+	7.2	4.3/12.9	39106
2000 BO ₂₉	2000 04 09.7	13 14.76	-15 17.8	16.8	-0.82	+	6.5	2.6/12.2	40098
1998 SN ₇₃	2000 04 09.8	13 14.80	-04 18.9	17.9	-1.02	+	5.4	1.4/08.8	40008
1993 QS ₄	2000 04 09.8	13 14.95	-20 31.0	19.0	-0.99	+	2.4	3.8/13.4	35688
2000 FZ ₃₉	2000 04 09.8	13 15.06	+00 57.8	18.1	-0.82	+	6.6	2.6/07.0	40249
1998 XD ₁₄	2000 04 09.8	13 15.10	+16 25.3	17.7	-0.96	+	1.0	9.8/02.6	40051
1999 BH ₁₃	2000 04 09.8	13 15.14	-03 49.8	17.9	-0.60	+	4.3	1.0/08.5	40068
1978 VY ₅	2000 04 09.9	13 15.21	-04 35.6	17.3	-1.01	+	5.4	1.3/08.9	40289
1986 PU ₁	2000 04 09.9	13 15.23	-07 30.5	18.4	-0.95	+	5.1	0.1/09.8	40292
2000 FC ₄₇	2000 04 09.9	13 15.38	+08 44.8	16.8	-1.04	+	3.2	7.2/04.9	40253
2000 AG ₄	2000 04 09.9	13 15.38	+45 02.7	16.1	-1.01	-	5.8	25.1/23.0	40428
1976 SD ₅	2000 04 09.9	13 15.44	-11 09.2	17.6	-0.72	+	6.6	0.9/11.1	40288
(14495)	2000 04 10.0	13 15.51	+06 01.2	17.5	-0.89	+	3.8	4.2/05.8	39846

2000 APR. 18

M.P.C. 40557

2000 EE ₁₃₉	2000 04 10.0	13 15.53 +14 32.2	17.4 -0.81 + 1.8	7.6/02.9	40204
(14341)	2000 04 10.0	13 15.64 -04 23.8	17.3 -0.81 + 6.6	1.1/08.8	39801
(14314)	2000 04 10.0	13 15.68 -05 46.7	18.2 -0.75 + 4.1	0.6/09.3	39793
2000 CA ₉₅	2000 04 10.0	13 15.74 -03 28.3	16.2 -0.95 + 4.5	1.8/08.7	40109
(14749)	2000 04 10.0	13 15.87 -05 40.4	17.4 -0.77 + 5.2	0.8/09.3	39918
1998 SB ₄₃	2000 04 10.0	13 15.94 -06 30.2	18.3 -0.95 + 8.0	0.6/09.6	40005
(9770)	2000 04 10.1	13 15.95 -00 14.8	16.5 -0.85 + 6.8	3.7/07.6	39510
1997 WN ₃₈	2000 04 10.1	13 16.08 -05 25.9	18.9 -0.71 + 4.0	0.7/09.3	40321
(10402)	2000 04 10.1	13 16.18 -08 50.7	19.4 -0.73 + 4.0	0.2/10.4	34160
1991 TK ₁	2000 04 10.1	13 16.26 -38 47.0	18.3 -1.45 + 0.2	11.2/19.3	33546
1997 XY ₁₀	2000 04 10.2	13 16.54 -02 34.2	18.2 -0.74 + 3.6	1.4/08.5	40321
2000 GW ₃₅	2000 04 10.2	13 16.59 -10 30.6	17.7 -0.85 + 4.8	0.8/11.0	40260
1993 TZ ₂₄	2000 04 10.2	13 16.59 -02 20.2	19.7 -0.90 + 2.8	1.8/08.6	33686
(14667)	2000 04 10.2	13 16.59 -22 44.1	17.4 -0.85 + 3.2	4.4/14.8	39895
2000 GR ₄₀	2000 04 10.2	13 16.68 -08 04.5	18.4 -0.91 + 7.0	0.0/10.3	40260
2000 FH ₄₀	2000 04 10.3	13 16.61 +01 29.4	16.9 -1.02 + 1.3	3.4/07.7	40249
1998 XF ₇₇	2000 04 10.3	13 16.70 +08 53.5	18.9 -0.78 + 6.4	5.0/04.5	40350
(14385)	2000 04 10.3	13 16.72 -15 19.8	17.1 -1.04 + 3.5	2.7/12.3	39814
1996 LT	2000 04 10.3	13 16.81 +08 42.8	18.9 -0.86 + 5.0	6.6/04.8	39971
1993 FC ₃₅	2000 04 10.3	13 16.90 -03 52.9	18.0 -0.96 + 7.4	1.7/09.0	39948
1996 HQ ₂₂	2000 04 10.3	13 16.94 -09 55.1	18.5 -0.83 + 6.1	0.5/11.0	40312
2000 EZ ₁₉	2000 04 10.3	13 17.02 +04 48.4	16.8 -0.83 + 2.4	4.1/06.5	40133
1998 VP ₃₅	2000 04 10.3	13 17.02 +04 57.0	17.5 -0.89 + 2.8	4.3/06.6	40041
1998 XK ₇₄	2000 04 10.3	13 17.04 +08 23.0	18.3 -0.89 + 2.4	4.9/05.6	40055
1995 FK ₄	2000 04 10.4	13 17.00 +01 30.3	18.0 -0.78 + 6.6	2.9/07.2	40308
1998 SL ₁₃₇	2000 04 10.4	13 17.08 -01 12.6	19.5 -0.95 + 3.5	2.3/08.5	35720
1998 VQ ₅	2000 04 10.4	13 17.17 -09 06.7	18.5 -0.96 + 3.8	0.3/10.7	40033
(13607)	2000 04 10.4	13 17.20 -08 00.9	16.1 -1.05 + 2.1	0.1/10.4	38345
(11298)	2000 04 10.4	13 17.21 -03 46.6	18.1 -0.81 + 4.3	1.4/09.1	35565
1988 RZ ₁₂	2000 04 10.4	13 17.24 -07 34.5	19.5 -0.80 + 6.1	0.2/10.3	39937
1997 NE	2000 04 10.4	13 17.24 -09 11.8	18.2 -0.87 + 6.4	0.4/10.8	39976
1998 YT ₃	2000 04 10.4	13 17.27 -04 58.6	16.6 -0.78 + 5.3	1.0/09.4	40350
2000 EX ₁₀₈	2000 04 10.4	13 17.32 +03 38.9	16.9 -0.72 + 6.4	3.5/06.4	40187
1998 TJ ₂₉	2000 04 10.4	13 17.36 -09 59.5	18.8 -0.92 + 6.1	0.6/11.1	40022
6033 P-L	2000 04 10.4	13 17.37 -09 35.6	18.7 -0.99 + 5.4	0.5/10.9	40275
2000 FY ₃₉	2000 04 10.5	13 17.40 -00 04.5	17.6 -0.86 + 7.6	2.9/07.8	40249
1998 WE ₉	2000 04 10.5	13 17.57 +09 05.5	17.4 -0.77 + 4.0	4.9/04.9	40044
(14313)	2000 04 10.5	13 17.68 -09 59.9	17.5 -0.72 + 7.0	0.5/11.2	39793
1997 TK ₁	2000 04 10.5	13 17.70 -13 50.3	17.1 -0.91 + 4.2	2.0/12.3	40320
1998 YR ₄	2000 04 10.6	13 17.71 -00 07.2	18.5 -0.86 + 1.8	2.6/08.3	40060
2000 EL ₁₀₄	2000 04 10.6	13 17.82 -12 45.1	17.9 -0.86 + 4.0	1.4/12.0	40182
2000 ED ₁₅	2000 04 10.6	13 17.84 -12 30.2	17.3 -0.85 + 4.7	1.4/12.0	40131
2000 CL ₅₈	2000 04 10.6	13 17.89 +14 17.7	16.7 -0.79 + 6.3	8.2/02.7	40103
1998 XO ₄	2000 04 10.6	13 17.93 -09 56.0	18.3 -1.04 + 3.7	0.6/11.1	40048
2000 EN ₁₃₇	2000 04 10.6	13 17.94 +07 19.8	17.7 -0.73 + 4.5	4.3/05.5	40204
1994 PT ₂₁	2000 04 10.7	13 18.28 -06 35.8	18.5 -1.02 + 5.8	0.6/10.3	39956
(14486)	2000 04 10.7	13 18.28 -04 52.6	17.9 -0.91 + 6.8	1.3/09.7	39843
1998 XT ₁₄	2000 04 10.8	13 18.47 -04 26.2	17.7 -0.91 + 7.3	1.7/09.6	40051
1987 QM	2000 04 10.8	13 18.50 -29 29.5	17.9 -1.01 + 1.6	6.1/16.7	40292
2000 FT ₃₉	2000 04 10.8	13 18.51 -01 34.5	17.7 -0.92 + 5.0	2.7/08.8	40248
1998 XG ₆₁	2000 04 10.9	13 18.87 -32 45.5	17.4 -0.95 + 3.7	7.5/18.8	40350

2000 GM ₄₀	2000 04 10.9	13 18.96 -07 30.7	17.7 -0.86 + 8.3	0.3/10.7	40260
1998 VC ₃₃	2000 04 10.9	13 19.00 +15 33.5	17.0 -0.91 + 1.9	9.5/03.3	40040
1998 YS ₅	2000 04 10.9	13 19.01 +09 26.3	17.1 -0.76 + 4.3	5.0/05.1	40350
1993 UW ₈	2000 04 10.9	13 19.11 +00 31.4	17.1 -0.92 + 4.7	3.3/08.2	40304
1970 OF	2000 04 10.9	13 19.20 -16 56.5	18.0 -0.89 + 4.1	2.4/13.6	40288
2000 CQ ₅₈	2000 04 10.9	13 19.21 +10 56.9	17.4 -0.70 + 6.4	5.4/04.2	40103
2000 FB ₄₂	2000 04 11.0	13 19.26 +02 16.8	18.0 -0.71 + 5.6	3.1/07.5	40250
2000 FZ ₄₀	2000 04 11.0	13 19.26 -01 00.0	16.9 -0.98 + 4.4	3.1/08.9	40506
1998 SM ₁₃₅	2000 04 11.0	13 19.28 -04 26.7	18.2 -0.97 + 4.9	1.4/09.9	40015
1996 EN ₁₂	2000 04 11.0	13 19.39 -19 16.2	19.6 -0.99 + 5.4	3.9/14.4	33694
2000 AC ₁₆₈	2000 04 11.0	13 19.52 +17 36.6	16.7 -0.86 + 4.0	10.3/02.2	40094
1997 QP	2000 04 11.0	13 19.55 -29 31.4	16.3 -1.08 + 0.7	8.2/16.9	40319
1992 OE ₃	2000 04 11.0	13 19.59 -12 53.8	18.8 -0.89 + 4.6	1.4/12.5	33682
1994 CF ₁₆	2000 04 11.0	13 19.60 +04 32.1	17.8 -0.73 + 4.6	3.9/06.9	40305
1998 XJ ₉₅	2000 04 11.1	13 19.54 -02 03.0	17.4 -0.78 + 8.5	2.0/08.9	40057
1998 WD ₅	2000 04 11.1	13 19.59 -06 08.2	19.7 -0.93 + 6.2	0.7/10.4	40043
2000 EN ₇₅	2000 04 11.1	13 19.75 -09 16.7	17.2 -0.67 +11.3	0.3/11.5	40484
2000 EM ₉₇	2000 04 11.1	13 19.82 -13 08.6	17.0 -0.93 + 5.7	1.6/12.6	40181
2000 EC ₁₅₇	2000 04 11.1	13 19.87 +13 21.3	18.7 -0.81 + 6.3	7.6/03.7	40213
(14460)	2000 04 11.1	13 19.93 -06 00.7	17.3 -1.01 + 4.7	0.9/10.5	39836
1981 DV ₂	2000 04 11.2	13 19.92 -02 57.4	18.4 -0.87 +13.4	1.8/09.2	40290
1998 SC ₁₃₄	2000 04 11.2	13 19.93 -07 17.3	18.7 -0.94 + 6.4	0.4/10.9	40014
(11316)	2000 04 11.2	13 19.97 -03 56.4	18.3 -0.93 + 5.1	1.4/09.9	35569
1997 JN	2000 04 11.2	13 20.13 -00 54.7	18.3 -0.99 + 6.1	2.9/09.0	40317
1996 AT	2000 04 11.2	13 20.22 -01 36.3	16.5 -0.96 + 6.6	2.9/09.1	40310
(10120)	2000 04 11.2	13 20.23 +06 35.1	17.8 -0.75 + 3.3	4.2/06.5	39510
1998 WN ₇	2000 04 11.3	13 20.28 +06 12.2	18.2 -0.91 + 2.4	5.1/07.1	40347
2000 FG ₄₈	2000 04 11.3	13 20.31 -04 44.1	18.0 -0.93 + 5.7	1.5/10.2	40253
(13977)	2000 04 11.3	13 20.32 -05 14.1	16.2 -0.83 +11.0	1.1/10.2	39044
1998 SP ₃₇	2000 04 11.3	13 20.48 -10 27.6	17.4 -0.94 + 7.4	0.8/12.0	40337
2000 EB ₁₁₃	2000 04 11.3	13 20.57 -06 18.1	17.2 -0.77 + 4.1	0.7/10.7	40191
1998 YJ ₆	2000 04 11.3	13 20.63 -13 12.0	19.0 -0.71 +10.8	1.3/13.1	33772
2000 EV ₁₁₃	2000 04 11.4	13 20.67 -07 41.2	17.3 -0.86 + 1.9	0.3/11.2	40191
(14384)	2000 04 11.4	13 20.85 -04 45.4	16.9 -0.72 + 6.6	1.2/10.2	39814
(14421)	2000 04 11.4	13 20.86 +10 25.8	18.2 -0.71 + 6.0	5.0/04.7	39825
1993 FF ₂₉	2000 04 11.4	13 20.93 -12 51.1	17.8 -0.89 + 8.8	1.9/12.9	39948
(11062)	2000 04 11.4	13 20.96 +08 56.6	16.9 -0.77 + 4.3	5.2/05.7	35227
(11564)	2000 04 11.4	13 21.02 -06 11.5	17.4 -0.94 + 7.7	0.8/10.7	35849
1996 EP	2000 04 11.5	13 21.05 -09 41.2	17.9 -0.96 + 5.1	8.7/02.0	39965
1998 YN ₅	2000 04 11.5	13 21.20 +14 02.9	18.4 -0.84 + 4.6	6.5/04.0	40350
1998 WZ ₂₀	2000 04 11.5	13 21.21 -12 28.0	18.7 -1.00 + 5.9	1.4/12.7	40348
4905 P-L	2000 04 11.5	13 21.34 -10 30.9	18.5 -0.97 + 4.8	0.8/12.1	36121
(14505)	2000 04 11.5	13 21.35 -02 42.1	16.4 -0.90 + 3.7	2.8/09.9	39848
(14555)	2000 04 11.5	13 21.35 -09 55.4	17.3 -0.71 + 6.4	0.4/12.0	39862
(9876)	2000 04 11.5	13 21.36 -04 52.0	18.1 -0.94 + 6.9	1.3/10.4	33463
(9973)	2000 04 11.5	13 21.37 -11 01.2	18.1 -0.89 + 5.2	0.8/12.3	40288
(9835)	2000 04 11.5	13 21.40 -07 06.3	17.8 -0.88 + 3.1	0.4/11.2	33454
(14331)	2000 04 11.5	13 21.41 -09 00.1	17.8 -0.91 + 4.5	0.2/11.7	39798
1998 YC ₃₀	2000 04 11.5	13 21.44 +10 05.5	18.2 -0.79 + 6.6	6.3/05.2	40063
1997 TA ₂₆	2000 04 11.6	13 21.47 -07 21.9	18.1 -0.92 + 0.2	0.4/11.3	40320
(14753)	2000 04 11.6	13 21.52 -02 53.9	18.1 -0.81 + 6.2	1.8/09.8	39919

(14576)	2000 04 11.6	13 21.56	-05 28.5	17.5	-0.95	+	6.4	1.1/10.7	39868	2000 FL ₁₅	2000 04 12.4	13 24.48	-05 09.6	16.3	-0.74	+32.6	1.7/10.8	40223	
1999 AD ₁₀	2000 04 11.6	13 21.58	-10 57.5	19.5	-0.63	+	4.6	0.6/12.4	35730	2000 FV ₄₇	2000 04 12.4	13 24.48	+08 19.8	18.2	-0.72	+	5.5	4.8/06.5	40253
1997 UB ₇	2000 04 11.7	13 21.88	+04 01.7	17.5	-0.88	+	2.3	3.4/08.1	40320	1998 SO ₁₃₄	2000 04 12.4	13 24.66	-05 47.4	18.0	-0.93	+	8.0	1.2/11.5	40341
1998 YO ₇	2000 04 11.7	13 21.92	+08 01.8	19.6	-0.86	+	3.6	4.9/06.7	35729	1999 BT ₁₂	2000 04 12.4	13 24.67	-12 34.4	18.3	-0.72	+	4.9	0.9/13.7	40351
1998 UZ ₇	2000 04 11.7	13 21.98	-09 37.9	19.3	-0.82	+	8.7	0.3/12.1	34306	(14434)	2000 04 12.4	13 24.69	-00 52.7	15.6	-0.82	+	7.2	3.5/09.8	39828
2000 FX ₄₈	2000 04 11.7	13 22.13	-11 23.6	16.6	-0.88	+	6.0	1.2/12.6	40254	1998 SJ ₁₄₇	2000 04 12.4	13 24.75	-05 33.8	18.6	-0.92	+	6.8	1.2/11.4	40018
2000 GR ₄₄	2000 04 11.8	13 22.12	-05 49.3	17.4	-0.93	+	6.7	1.3/10.9	40261	1997 UG ₅	2000 04 12.5	13 24.79	-04 33.0	19.2	-0.82	+	1.4	1.1/11.3	40320
1990 WE ₉	2000 04 11.8	13 22.15	-05 24.4	18.4	-0.91	+	6.1	1.1/10.8	40296	1990 RF ₁	2000 04 12.5	13 24.91	-09 27.6	16.7	-0.77	+	4.8	0.2/12.7	40295
2000 GQ ₄₄	2000 04 11.8	13 22.16	-06 40.7	18.5	-0.90	+	5.1	0.7/11.2	40260	(14745)	2000 04 12.5	13 24.93	-08 52.7	17.8	-0.75	+	9.1	0.0/12.5	39917
1991 GL ₈	2000 04 11.8	13 22.21	-10 27.4	17.6	-0.89	+	4.0	0.6/12.4	39941	4215 T-2	2000 04 12.5	13 24.95	-05 58.8	19.0	-0.89	+	4.8	1.0/11.7	40533
2000 FM	2000 04 11.8	13 22.32	+07 00.2	17.2	-0.84	+	4.1	5.7/06.9	40217	2151 T-3	2000 04 12.5	13 25.05	-17 18.3	16.7	-1.14	+	0.9	3.6/14.6	40534
1998 WT ₁₄	2000 04 11.8	13 22.43	-07 43.5	18.3	-0.92	+	6.2	0.3/11.6	40045	1994 XH	2000 04 12.6	13 25.10	-12 06.8	19.0	-0.93	+	5.1	1.0/13.6	33748
1998 SJ ₁₁₀	2000 04 11.8	13 22.57	-12 09.2	18.8	-0.96	+	6.5	1.2/13.0	33758	1999 CR ₁₀₉	2000 04 12.6	13 25.18	-18 29.8	18.7	-0.64	+	3.9	2.2/15.8	36086
1979 MS ₂	2000 04 11.9	13 22.61	-09 51.4	17.8	-0.90	+	6.9	11.2/23.0	40289	1994 WJ ₁	2000 04 12.6	13 25.22	+10 01.7	18.7	-1.00	+	1.0	6.6/07.7	40307
(10045)	2000 04 11.9	13 22.69	-07 16.7	16.6	-0.75	+	5.1	0.5/11.5	39510	2000 EY ₉₆	2000 04 12.6	13 25.23	-19 15.6	16.4	-1.09	-	0.4	4.1/15.1	40180
1998 WU ₁	2000 04 11.9	13 22.69	+10 22.5	17.6	-1.00	+	3.2	7.2/06.2	40347	(14778)	2000 04 12.6	13 25.29	-08 45.8	17.2	-0.77	+	4.3	0.1/12.6	39926
2000 FB ₄₈	2000 04 11.9	13 22.72	+07 23.2	17.8	-0.80	+	6.0	4.4/06.6	40253	2000 FW ₇	2000 04 12.6	13 25.30	+12 38.8	18.2	-0.83	+	2.3	6.9/06.0	40220
1991 VG ₃	2000 04 11.9	13 22.77	-20 17.5	17.6	-0.93	+	14.1	3.9/16.3	40298	2000 EX ₁₅₄	2000 04 12.6	13 25.43	+07 56.5	17.8	-1.02	-	0.1	6.2/08.4	40213
2128 T-1	2000 04 11.9	13 22.85	-05 56.0	17.8	-0.94	+	6.3	1.0/11.1	40532	1998 SL ₁₃₃	2000 04 12.6	13 25.48	-10 45.8	19.3	-0.95	+	6.2	0.6/13.2	33759
1992 DN ₃	2000 04 11.9	13 22.87	-04 09.5	17.8	-0.88	+	5.9	1.8/10.6	39944	2000 CB ₄	2000 04 12.7	13 25.51	+14 30.4	17.0	-0.74	+	6.9	8.1/04.0	40448
1998 UM ₂₃	2000 04 12.0	13 22.87	-13 09.6	17.1	-0.90	+	7.7	1.6/13.4	40344	2000 FN ₄₁	2000 04 12.7	13 25.60	+01 09.7	18.4	-0.84	+	4.6	2.9/09.6	40249
1998 RO ₇₄	2000 04 12.0	13 22.87	-15 00.0	17.7	-1.05	+	5.3	2.6/13.8	40335	1998 WH ₃	2000 04 12.7	13 25.63	-27 09.4	18.8	-0.92	+	5.9	5.8/18.8	33765
1998 XZ ₄₃	2000 04 12.0	13 23.01	+08 44.3	17.1	-0.88	+	1.7	5.7/07.0	40349	1999 CQ ₈₂	2000 04 12.7	13 25.67	-03 32.8	16.6	-1.01	+	1.9	2.0/11.3	40072
2000 ED ₁₅₇	2000 04 12.0	13 23.17	+11 33.4	18.1	-0.86	+	3.8	6.0/05.6	40213	1998 ST ₂₆	2000 04 12.7	13 25.84	-25 35.8	18.7	-0.83	+	3.9	4.8/18.1	34022
2000 FB ₄₉	2000 04 12.0	13 23.20	-23 30.8	16.9	-0.96		0.0	4.8/15.9	40254	1995 BZ	2000 04 12.8	13 25.99	+10 19.1	16.3	-0.79	+	4.7	7.7/06.3	40308
1998 RN ₅₂	2000 04 12.0	13 23.30	-07 45.1	18.4	-1.12	+	3.2	0.4/11.8	39994	2000 CY ₁₀₁	2000 04 12.8	13 26.13	-05 51.1	16.3	-0.71	+	6.8	1.0/11.8	40110
1999 CE ₁₃₃	2000 04 12.1	13 23.26	-09 23.1	19.5	-0.73	+	4.3	0.2/12.3	34606	1991 QG	2000 04 12.8	13 26.13	-08 27.1	19.5	-0.71	+	5.3	0.1/12.7	30896
2000 FT ₁₃	2000 04 12.1	13 23.28	+11 59.3	17.8	-0.87	+	1.1	6.0/05.9	40223	1993 UV ₂	2000 04 12.8	13 26.20	+39 14.1	18.7	-1.25	+	0.5	19.9/28.0	39954
1998 SM ₂₇	2000 04 12.1	13 23.50	-27 14.1	18.5	-1.07	+	17.2	7.8/19.3	35717	(14511)	2000 04 12.9	13 26.18	-15 19.5	17.2	-1.05	+	2.8	2.4/14.6	39850
2573 P-L	2000 04 12.1	13 23.52	-08 22.2	18.3	-0.95	+	4.1	0.1/12.0	40530	1998 TG ₅	2000 04 12.9	13 26.33	-00 57.2	17.9	-0.96	+	3.1	2.9/10.7	40019
1998 RK ₈₀	2000 04 12.1	13 23.59	-03 30.4	17.9	-0.98	+	5.8	2.2/10.6	39999	(14594)	2000 04 12.9	13 26.35	-11 58.6	17.2	-1.08	+	1.0	1.0/13.7	39874
2000 EH ₁₅₇	2000 04 12.1	13 23.59	+14 43.8	18.6	-0.75	+	3.4	6.7/04.5	40214	(14443)	2000 04 12.9	13 26.48	-08 48.3	17.3	-0.79	+	5.2	0.1/12.9	39831
1999 AJ ₄	2000 04 12.2	13 23.67	-09 25.8	18.8	-0.92	+	5.9	0.2/12.4	40351	1998 WO ₈	2000 04 12.9	13 26.48	-04 39.5	20.9	-0.92	+	4.9	1.4/11.7	40043
1998 VQ ₆	2000 04 12.2	13 23.76	-15 13.0	19.2	-1.00	+	5.0	2.2/14.1	35724	(10377)	2000 04 12.9	13 26.54	-06 57.2	19.4	-0.70	+	4.4	0.5/12.3	34154
2391 T-3	2000 04 12.2	13 23.76	-09 50.3	17.8	-0.80	+	4.3	0.3/12.6	40534	1999 CD ₁	2000 04 12.9	13 26.58	-28 37.4	17.6	-1.06	+	4.8	6.9/19.1	38543
1993 FK ₁₀	2000 04 12.2	13 23.80	-09 09.2	16.9	-1.10	+	1.8	0.1/12.3	39946	1998 YT ₂₉	2000 04 13.0	13 26.56	-10 49.2	18.2	-0.82	+	1.8	0.5/13.5	40062
5160 T-3	2000 04 12.2	13 23.87	+07 11.0	18.0	-0.76	+	8.6	5.3/06.4	40535	(10114)	2000 04 13.0	13 26.63	-10 36.3	16.9	-0.81	+	4.8	0.5/13.5	33885
1997 UX	2000 04 12.2	13 23.89	-05 46.7	18.8	-1.02	+	2.7	1.0/11.4	39983	2000 FA ₄₈	2000 04 13.0	13 26.92	+08 05.1	17.9	-0.94	+	6.9	6.0/07.4	40253
1998 YG ₂₂	2000 04 12.2	13 23.95	-15 57.2	17.2	-0.82	+	5.5	2.2/14.6	40062	2000 FE ₄₉	2000 04 13.1	13 27.03	-11 22.2	16.5	-0.85	+	4.8	0.9/13.8	40254
2000 EF ₁₀₁	2000 04 12.2	13 23.97	-04 06.2	16.0	-1.14	+	2.0	2.2/11.1	40182	1951 QD	2000 04 13.1	13 27.10	+03 54.4	18.7	-0.80	+	5.0	3.8/09.0	40288
(14355)	2000 04 12.2	13 24.05	-11 48.7	17.8	-0.94	+	7.2	1.1/13.2	39805	1999 CH ₃₈	2000 04 13.1	13 27.16	-04 04.7	18.4	-0.72	+	4.6	1.3/11.5	40352
1997 TM ₂₀	2000 04 12.3	13 24.04	-05 16.9	19.6	-0.91	+	0.5	1.1/11.4	31013	6773 P-L	2000 04 13.1	13 27.19	-03 53.1	19.1	-0.94	+	5.0	1.9/11.6	40531
1998 YH ₁	2000 04 12.3	13 24.04	+05 34.7	17.8	-0.82	+	2.4	4.3/08.0	40350	1991 PT ₁₁	2000 04 13.2	13 27.32	-07 07.2	18.3	-0.70	+	4.8	0.5/12.6	40297
1978 RV	2000 04 12.3	13 24.11	-11 57.3	17.9	-0.94	+	2.9	1.0/13.2	40288	1999 AL ₂₁	2000 04 13.2	13 27.39	-04 50.9	18.0	-0.91	+	6.1	1.4/11.9	40351
2000 EP ₅₄	2000 04 12.3	13 24.13	-01 05.0	18.0	-0.92	+	4.5	2.4/10.0	40155	2000 GC ₄₆	2000 04 13.2	13 27.40	-06 14.3	16.7	-0.88	+	8.8	1.2/12.3	40261
(14620)	2000 04 12.3	13 24.15	-03 26.4	16.8	-0.92	+	4.5	2.2/10.7	39882	1314 T-2	2000 04 13.2	13 27.43	-10 25.35						

2000 APR. 18

M.P.C. 40559

(14419)	2000 04 13.3	13 27.78	-03 21.1	16.8	-1.02	+	5.5	2.4/11.6	39824
(14165)	2000 04 13.3	13 27.78	-13 15.3	16.3	-0.81	+	+10.6	1.5/14.8	39098
2000 GE ₉₃	2000 04 13.3	13 27.88	+05 53.7	17.8	-0.70	+	6.1	4.0/08.2	40267
1998 QO ₆	2000 04 13.3	13 27.88	-09 00.7	18.4	-0.96	+	3.7	0.1/13.3	40329
1995 HR ₂	2000 04 13.3	13 27.94	+00 58.3	17.8	-0.87	+	1.7	3.3/10.6	40308
1987 SP ₁	2000 04 13.3	13 28.02	-14 13.6	17.4	-1.05	+	4.1	1.8/14.8	40292
(9878)	2000 04 13.4	13 28.33	+09 06.9	18.4	-0.69	+	7.6	5.8/06.8	33464
1998 XS ₂₀	2000 04 13.4	13 28.33	-38 26.0	16.3	-0.99	+	2.2	11.7/22.4	40349
2000 GG ₄₈	2000 04 13.4	13 28.37	-10 05.3	17.3	-0.97	+	4.5	0.3/13.7	40261
1998 YN ₃	2000 04 13.5	13 28.38	-01 15.2	17.3	-0.92	+	4.0	2.7/11.1	40350
(14464)	2000 04 13.5	13 28.39	-14 36.8	16.2	-1.84	-	14.5	2.8/13.9	39837
4105 P-L	2000 04 13.5	13 28.54	-12 01.8	19.5	-0.88	+	6.3	0.9/14.4	36120
1991 PK	2000 04 13.5	13 28.59	-05 43.1	18.8	-0.99	+	6.6	1.3/12.5	40297
1987 SF	2000 04 13.5	13 28.82	-02 21.6	18.8	-0.93	+	6.1	2.2/11.5	40292
(13582)	2000 04 13.6	13 28.77	-01 50.5	16.3	-1.08	-	0.5	3.0/11.8	38338
1994 UU ₁	2000 04 13.6	13 28.77	-07 02.9	17.1	-1.08	+	4.0	0.9/13.0	40306
2000 ET ₅₄	2000 04 13.6	13 28.83	-01 51.6	16.8	-0.93	+	3.3	2.7/11.5	40155
(10062)	2000 04 13.6	13 29.00	-12 01.2	18.0	-0.88	+	5.0	0.9/14.5	33872
1989 OC	2000 04 13.6	13 29.04	-26 34.3	16.5	-1.05	+	1.3	8.4/18.1	30781
1994 VQ ₁	2000 04 13.6	13 29.06	-14 28.3	18.8	-0.90	+	6.3	1.7/15.3	34011
2000 GV ₁₀₃	2000 04 13.6	13 29.07	-04 43.0	16.9	-0.76	+	5.3	1.6/12.2	40270
1998 SL ₁	2000 04 13.6	13 29.11	-08 09.0	18.2	-1.05	+	2.9	0.5/13.4	40000
2000 GU ₁₀₅	2000 04 13.7	13 29.17	-14 14.6	17.5	-0.83	+	5.7	1.6/15.3	40270
1998 VZ ₁₃	2000 04 13.7	13 29.18	-16 55.7	17.1	-0.99	+	7.1	2.9/16.1	40346
1998 VO ₂₆	2000 04 13.7	13 29.29	-11 28.7	19.5	-0.98	+	5.0	0.7/14.4	40346
1991 RW ₁₈	2000 04 13.7	13 29.29	-15 59.5	18.0	-0.76	+	4.7	1.8/15.8	40297
2000 GR ₈₇	2000 04 13.7	13 29.40	+02 05.3	18.4	-0.82	+	2.5	3.5/10.4	40263
(9761)	2000 04 13.8	13 29.61	-14 06.2	17.6	-1.03	+	4.9	1.7/15.2	39510
1998 YP ₅	2000 04 13.8	13 29.92	-07 06.4	18.3	-0.75	+	4.7	0.7/13.2	40350
1985 RB ₃	2000 04 13.9	13 29.86	-11 28.4	18.9	-0.89	+	4.1	0.6/14.5	40292
1998 SO ₅₀	2000 04 13.9	13 30.04	-11 48.8	16.6	-1.02	+	2.4	1.1/14.6	40338
2000 CM ₅₈	2000 04 13.9	13 30.05	+04 20.6	16.6	-1.01	+	1.6	5.6/10.3	40103
(13972)	2000 04 13.9	13 30.20	-02 15.9	16.8	-0.98	+	4.8	2.7/11.9	39043
1994 PM ₂₈	2000 04 13.9	13 30.29	-09 57.4	17.6	-1.05	+	3.4	0.2/14.1	40306
1998 YK ₁₇	2000 04 13.9	13 30.31	-29 01.0	19.2	-0.97	+	4.3	6.0/20.0	34037
1998 WL ₂₀	2000 04 14.0	13 30.25	-05 44.6	16.3	-1.04	+	1.9	1.7/13.0	40046
2000 EK ₉₆	2000 04 14.0	13 30.35	-17 20.3	17.7	-1.21	-	4.2	2.8/15.5	40179
1986 XR ₅	2000 04 14.0	13 30.39	-08 38.7	18.1	-0.74	+	3.7	0.2/13.8	40292
1998 VZ ₂₉	2000 04 14.0	13 30.58	-08 23.1	18.2	-1.02	+	4.5	0.4/13.8	40346
2000 EW ₁₄₁	2000 04 14.0	13 30.66	+08 46.5	18.1	-0.75	+	4.4	5.0/08.1	40206
(9766)	2000 04 14.1	13 30.64	-08 21.0	17.0	-0.93	+	4.9	0.4/13.8	33203
1989 SX ₄	2000 04 14.1	13 30.78	-02 31.0	17.8	-0.79	+	8.0	2.1/11.8	39938
2000 EK ₁₅₇	2000 04 14.1	13 30.90	+15 13.8	18.1	-0.93	-	0.4	10.5/07.4	40214
(14669)	2000 04 14.1	13 30.91	-08 24.1	17.0	-0.59	+	4.4	0.2/13.8	39896
1996 ER ₁₂	2000 04 14.1	13 30.97	-15 52.8	18.9	-0.98	+	6.4	2.2/16.1	33750
1998 SQ ₁₃₃	2000 04 14.2	13 31.02	-10 42.6	18.0	-0.99	+	4.7	0.4/14.6	40341
2112 T-2	2000 04 14.2	13 31.02	-09 19.6	18.8	-0.72	+	4.2	0.0/14.2	40533
2000 EB ₁₀₉	2000 04 14.2	13 31.21	+00 23.4	17.0	-0.82	+	7.6	3.8/11.0	40187
(14332)	2000 04 14.2	13 31.22	-08 59.1	16.0	-0.90	+	7.4	0.2/14.1	39798
2000 GW ₈₇	2000 04 14.2	13 31.23	+04 08.0	17.3	-1.01	+	5.8	6.0/10.0	40264
1998 YL ₂₇	2000 04 14.2	13 31.23	-09 24.3	16.7	-0.82	+	5.6	0.0/14.2	40351

(10118)	2000 04 14.2	13 31.25	-20 50.4	17.1	-0.85	+	5.5	3.6/17.8	33886
2000 GF ₈₈	2000 04 14.2	13 31.26	-01 55.9	17.1	-0.80	+	5.8	2.5/11.8	40264
1991 SJ	2000 04 14.2	13 31.28	+00 40.5	16.2	-0.89	+	7.3	4.8/10.9	40298
2000 EZ ₁₁₃	2000 04 14.2	13 31.33	-03 51.8	17.2	-0.92	+	5.3	2.0/12.6	40192
3813 T-3	2000 04 14.2	13 31.35	-09 31.9	20.3	-0.91	+	4.8	0.0/14.3	34061
(14423)	2000 04 14.2	13 31.35	-11 37.6	16.8	-1.09	+	2.7	0.8/14.8	39825
1998 YB	2000 04 14.3	13 31.35	-09 19.0	17.6	-0.74	+	4.3	0.1/14.2	40058
1990 OD ₁	2000 04 14.3	13 31.40	+04 27.3	16.6	-0.92	+	6.7	5.7/09.7	39939
2000 CC ₉₅	2000 04 14.3	13 31.51	+05 59.5	16.5	-0.76	+	9.9	5.5/08.6	40109
2000 GU ₈₇	2000 04 14.3	13 31.58	+04 03.7	17.1	-0.86	+	4.3	4.4/10.1	40263
2000 FL ₄₉	2000 04 14.3	13 31.69	-17 13.6	17.2	-0.77	+	4.3	2.3/16.8	40255
1998 XS ₃₀	2000 04 14.3	13 31.75	-25 41.8	16.7	-0.83	+	8.7	6.2/20.2	40349
(14374)	2000 04 14.3	13 31.79	+09 16.9	17.7	-0.91	+	2.9	5.7/08.8	39811
1998 YS ₁₇	2000 04 14.4	13 31.70	+11 44.1	18.3	-0.84	+	4.8	6.2/07.4	40062
1998 TY ₃₄	2000 04 14.4	13 31.80	-08 04.8	18.2	-0.93	+	6.2	0.5/14.0	40024
1991 RJ ₂₉	2000 04 14.4	13 31.86	-27 44.4	18.8	-0.78	+	3.7	4.4/20.2	40297
1998 YF ₁₂	2000 04 14.4	13 31.87	+07 34.9	16.9	-0.79	+	3.5	5.2/09.0	40351
(14534)	2000 04 14.4	13 31.94	-08 45.4	18.0	-0.85	+	3.6	0.3/14.2	39856
1989 UW ₃	2000 04 14.4	13 32.03	-19 05.2	17.7	-0.86	+	7.6	2.9/17.6	40294
2208 T-2	2000 04 14.5	13 32.08	-10 56.8	17.7	-1.03	+	4.2	0.5/14.9	40280
1997 WJ ₁	2000 04 14.5	13 32.17	-12 28.7	18.0	-0.85	+	2.3	0.8/15.3	31150
1994 AD ₁₁	2000 04 14.5	13 32.22	-26 39.0	17.6	-0.90	+	3.0	4.6/19.6	40304
(9844)	2000 04 14.5	13 32.29	+03 21.5	18.3	-0.90	+	2.4	3.9/10.9	33456
1998 XZ ₃₂	2000 04 14.5	13 32.40	-15 55.4	16.8	-0.94	+	1.8	2.1/16.3	40349
2000 CV ₁₁₁	2000 04 14.5	13 32.51	+09 06.6	17.3	-0.98	-	1.1	9.6/10.0	40459
1998 RD ₇₇	2000 04 14.6	13 32.45	+00 14.1	16.8	-0.95	+	6.4	4.3/11.6	40336
2629 P-L	2000 04 14.6	13 32.48	-10 14.4	18.6	-0.78	+	4.0	0.2/14.8	40530
1998 XY ₈	2000 04 14.6	13 32.49	-26 34.2	18.1	-1.01	+	6.0	5.6/20.0	34311
(14326)	2000 04 14.6	13 32.67	+02 11.3	17.7	-0.92	+	4.8	4.2/11.1	39796
(9782)	2000 04 14.6	13 32.73	+01 19.4	15.9	-0.97	+	0.6	4.8/11.8	33207
4089 T-2	2000 04 14.6	13 32.73	-04 19.3	20.8	-0.86	+	5.4	1.6/13.0	36123
1991 TP	2000 04 14.6	13 32.75	+03 19.8	17.5	-0.70	+	7.4	3.8/10.1	39943
2000 EZ ₉₆	2000 04 14.6	13 32.76	-16 52.5	16.7	-0.93	+	0.3	2.4/16.5	40180
1993 FZ ₄₉	2000 04 14.6	13 32.78	-12 56.0	17.6	-1.01	+	4.2	1.5/15.6	40302
1992 KF	2000 04 14.6	13 32.86	+10 54.4	16.3	-1.03	-	0.4	8.4/09.2	40300
1998 UX ₄	2000 04 14.6	13 32.87	-04 09.1	20.1	-0.89	+	3.6	1.9/13.1	33761
1998 UZ ₂₂	2000 04 14.7	13 32.86	-11 01.2	19.5	-0.96	+	6.4	0.5/15.1	40029
1981 EW ₃₆	2000 04 14.7	13 32.91	-18 22.8	19.3	-0.85	+	4.8	2.8/17.4	35678
1997 UA ₂₁	2000 04 14.7	13 33.05	-11 05.1	17.5	-0.82	+	8.8	0.5/15.2	40320
(9919)	2000 04 14.7	13 33.11	-10 04.6	18.9	-0.93	+	5.9	0.1/14.9	33652
(12848)	2000 04 14.7	13 33.20	+02 47.2	17.7	-0.78	+	8.9	4.1/10.4	38750
5148 T-2	2000 04 14.7	13 33.22	-20 29.8	18.0	-1.05	+	4.7	3.8/17.8	40533
1998 TC ₃₂	2000 04 14.7	13 33.25	-15 40.5	16.5	-0.93	+	7.6	2.6/16.7	40023
(10006)	2000 04 14.7	13 33.27	-02 20.9	17.3	-0.94	+	2.3	2.5/12.8	33859
(10236)	2000 04 14.8	13 33.41	-07 54.9	16.7	-1.02	+	4.3	0.7/14.3	33915
1994 YN	2000 04 14.8	13 33.44	+11 11.5	19.0	-0.88	+	3.9	6.1/08.4	40307
1997 LR	2000 04 14.9	13 33.84	+03 25.2	19.9	-1.04	+	7.1	5.0/10.8	40318
(9904)	2000 04 14.9	13 33.84	+00 17.1	18.7	-0.79	+	6.0	3.0/11.7	33469
1993 TD ₂₅	2000 04 14.9	13 33.93	-05 56.0	18.1	-0.93	+	4.4	1.4/13.9	36070
3347 T-2	2000 04 14.9	13 33.94	-04 20.7	16.4	-0.96	+	4.7	2.3/13.4	32537
(10098)	2000 04 14.9	13 33.94	-04 31.1	17.3	-0.84	+	2.2	1.6/13.5	33881

1998 SV ₁₃₇	2000 04 14.9	13 33.95	-08 32.8	17.8	-1.10	+	2.6	0.5/14.7	40016	1997 UH ₂₂	2000 04 16.0	13 37.66	-05 27.0	18.5	-0.77	+	5.7	1.4/14.5	40320
1998 VM ₃₀	2000 04 14.9	13 33.97	-09 46.6	18.1	-1.00	+	4.6	0.0/15.0	40346	2000 GM ₄	2000 04 16.0	13 37.75	+01 27.1	17.6	-0.87	+	17.2	4.7/11.6	40257
(14437)	2000 04 15.0	13 33.96	-11 19.4	17.0	-0.84	+	8.3	0.5/15.5	39829	1997 UL ₁	2000 04 16.0	13 37.89	-08 44.5	17.9	-0.94	+	2.0	0.5/15.7	39983
2000 FF ₅₀	2000 04 15.0	13 34.00	+05 24.5	16.9	-0.83	+	2.3	4.8/10.6	40507	(14431)	2000 04 16.0	13 37.98	-05 50.1	17.9	-0.94	+	4.4	1.6/14.8	39828
2000 EU ₁₃₇	2000 04 15.0	13 34.08	-00 56.2	17.6	-0.87	+	7.3	3.6/12.1	40204	1998 SM ₁₂₄	2000 04 16.0	13 38.07	-08 53.0	18.5	-1.04	+	5.4	0.5/15.7	40012
2000 GA ₈₂	2000 04 15.0	13 34.34	-00 21.5	16.7	-0.74	+	29.9	4.2/10.8	40263	(14771)	2000 04 16.1	13 38.19	-08 26.4	17.4	-0.75	+	4.6	0.5/15.6	39924
1996 GU ₁₇	2000 04 15.1	13 34.35	-07 58.3	16.9	-1.03	+	0.9	0.8/14.6	39966	(14519)	2000 04 16.1	13 38.33	-06 24.9	16.8	-0.75	+	4.1	1.3/15.0	39852
(11147)	2000 04 15.1	13 34.43	+01 05.1	17.7	-0.73	+	3.9	2.9/11.7	35249	1998 SM ₇₄	2000 04 16.2	13 38.56	-04 20.6	17.4	-0.94	+	5.5	2.2/14.5	40009
1979 MU ₂	2000 04 15.1	13 34.52	-03 47.7	19.6	-0.73	+	5.5	1.8/13.2	40289	1997 SE ₁₅	2000 04 16.2	13 38.69	-14 07.1	19.2	-0.74	+	4.9	1.1/17.5	35701
1998 SR ₄	2000 04 15.1	13 34.58	-11 18.3	18.1	-0.94	+	8.4	0.6/15.6	40336	1998 XH ₁₁	2000 04 16.3	13 38.87	+07 37.0	17.4	-0.93	+	1.4	6.2/11.5	40050
1998 SO ₁	2000 04 15.1	13 34.64	-07 35.1	17.4	-0.94	+	5.8	0.9/14.5	40000	1994 VZ	2000 04 16.3	13 38.91	-12 59.0	17.5	-0.94	+	7.7	1.0/17.0	40307
1999 CZ ₁₀₅	2000 04 15.2	13 34.71	-17 11.3	17.8	-0.91	+	4.7	2.4/17.4	34256	1990 UP ₄	2000 04 16.3	13 39.10	-05 06.4	18.5	-0.88	+	6.4	1.7/14.8	39941
1992 WG	2000 04 15.2	13 34.87	-00 10.1	18.2	-0.82	+	2.2	2.7/12.5	40300	2000 GJ	2000 04 16.4	13 39.28	-08 40.8	18.4	-0.94	+	6.8	0.7/15.9	40255
1997 WK ₂	2000 04 15.2	13 34.87	-00 50.4	17.1	-0.78	+	3.3	2.6/12.5	40321	1996 GO ₁₉	2000 04 16.4	13 39.28	-11 20.6	17.0	-0.80	+	8.8	0.4/16.8	39967
(13952)	2000 04 15.3	13 35.14	-01 04.5	17.0	-0.92	+	5.8	3.4/12.6	39038	2000 EP ₁₀₄	2000 04 16.4	13 39.31	-13 08.1	16.6	-0.97	+	3.5	1.3/17.2	40183
(14593)	2000 04 15.3	13 35.16	-04 25.3	17.8	-1.04	+	3.4	2.2/13.9	39874	2000 ED ₅₅	2000 04 16.4	13 39.43	-01 16.7	16.9	-1.02	+	3.3	3.7/14.0	40156
1997 SR ₂₅	2000 04 15.3	13 35.16	+05 21.8	18.9	-0.73	+	11.6	5.8/09.5	39981	2000 EO ₇₄	2000 04 16.4	13 39.44	+04 10.8	17.6	-0.67	+	11.5	5.1/10.9	40167
1996 JP ₁₂	2000 04 15.3	13 35.23	+08 50.2	19.3	-0.90	+	2.6	7.3/10.0	39970	1998 UF ₁₁	2000 04 16.4	13 39.49	-06 10.5	20.1	-0.83	+	4.0	1.2/15.3	34306
(13508)	2000 04 15.3	13 35.27	-09 27.9	15.5	-1.07	+	1.4	0.2/15.2	38318	1997 XG ₁₀	2000 04 16.4	13 39.50	-07 59.3	18.7	-0.73	+	6.5	0.7/15.7	39985
(9924)	2000 04 15.3	13 35.31	-13 32.9	18.2	-0.84	+	4.2	1.1/16.4	33653	(14311)	2000 04 16.4	13 39.55	-10 14.6	18.2	-0.89	+	8.0	0.0/16.5	39792
(10064)	2000 04 15.3	13 35.41	-08 16.7	16.2	-0.92	+	2.6	0.5/14.9	33873	1981 EX ₂₀	2000 04 16.5	13 39.55	-01 49.5	17.9	-0.77	+	7.0	3.0/13.7	39932
1992 OV ₅	2000 04 15.4	13 35.65	+04 11.4	18.9	-0.79	+	6.2	4.0/10.7	34185	(14477)	2000 04 16.5	13 39.55	-04 37.0	17.3	-0.84	+	2.2	1.7/14.9	39841
(14626)	2000 04 15.4	13 35.68	-13 23.9	17.6	-0.85	+	8.9	1.1/17.0	39884	2000 GO ₅₄	2000 04 16.5	13 39.63	-12 37.3	17.3	-0.95	+	3.5	1.0/17.2	40261
1993 FQ ₁₇	2000 04 15.4	13 35.82	+01 33.4	17.2	-0.95	+	5.6	4.8/12.0	39947	1999 AD ₇	2000 04 16.5	13 39.70	-13 54.2	18.3	-0.74	+	4.8	1.0/17.7	40351
2000 FA	2000 04 15.5	13 35.97	-07 48.0	17.0	-1.00	+	6.7	1.0/14.9	40217	1999 CF ₄	2000 04 16.5	13 39.72	+05 44.0	17.9	-0.80	+	7.4	5.4/11.1	40352
(14636)	2000 04 15.5	13 36.19	-00 27.2	17.8	-0.97	+	3.5	3.4/12.9	39887	1998 UY ₂₀	2000 04 16.5	13 39.87	-09 57.6	18.6	-0.96	+	4.8	0.1/16.5	40028
(9895)	2000 04 15.6	13 36.23	-11 20.4	16.8	-1.05	+	4.1	0.5/16.0	33467	1998 WU ₂₀	2000 04 16.6	13 39.91	-12 59.3	15.9	-0.89	+	10.2	1.1/17.5	40348
1998 TX ₁₂	2000 04 15.6	13 36.28	-10 26.9	16.0	-0.85	+	6.5	0.2/15.8	40343	(10144)	2000 04 16.6	13 40.13	-10 56.0	16.9	-0.79	+	4.7	0.2/16.8	33892
(10343)	2000 04 15.6	13 36.39	-07 22.3	18.7	-0.73	+	4.6	0.7/14.8	34146	(10002)	2000 04 16.6	13 40.19	-07 25.4	18.4	-0.73	+	3.8	0.8/15.8	33858
2000 GQ ₅₂	2000 04 15.6	13 36.58	-10 04.5	16.9	-1.00	+	2.8	0.0/15.7	40261	2000 GA ₈₉	2000 04 16.7	13 40.23	-01 27.7	16.6	-0.86	+	7.7	3.6/13.8	40265
1993 FA ₂₈	2000 04 15.7	13 36.56	-16 05.6	17.8	-1.05	+	4.3	2.3/17.4	40302	(14452)	2000 04 16.7	13 40.29	-12 16.9	17.8	-0.78	+	4.0	0.5/17.3	39834
2000 EY ₅₄	2000 04 15.7	13 36.63	+00 41.4	17.9	-0.91	+	6.8	4.1/12.4	40156	1999 AX ₇	2000 04 16.7	13 40.44	-17 28.8	16.5	-0.85	+	2.0	2.2/18.7	40351
(10189)	2000 04 15.7	13 36.67	+01 18.3	17.4	-0.81	+	5.9	3.6/12.1	33903	1997 TY ₂₄	2000 04 16.7	13 40.49	-07 54.3	19.0	-0.88	+	5.7	0.8/16.0	40320
(14388)	2000 04 15.7	13 36.69	-07 35.6	17.4	-0.97	+	5.1	1.0/15.0	39815	2000 EU ₁₁₃	2000 04 16.7	13 40.54	-07 50.5	16.0	-1.15	-	1.8	1.1/16.2	40191
1998 QZ ₉₇	2000 04 15.7	13 36.69	-07 45.8	17.3	-1.12	+	2.5	1.0/15.2	39991	1993 FK ₁₅	2000 04 16.7	13 40.55	-00 20.1	17.6	-0.93	+	5.0	4.5/13.8	40301
1968 OE ₁	2000 04 15.7	13 36.70	-13 19.4	17.2	-0.97	+	8.5	1.4/16.8	39930	1996 HX ₁₂	2000 04 16.7	13 40.57	-09 36.4	16.8	-0.85	+	8.0	0.3/16.5	39968
1998 XC ₇₃	2000 04 15.7	13 36.83	-29 11.3	17.0	-0.97	+	1.8	6.2/21.3	33719	(14037)	2000 04 16.7	13 40.62	-11 03.8	16.4	-0.75	+	8.3	8.7/07.0	39061
1997 PF ₅	2000 04 15.7	13 36.86	-08 12.0	17.7	-0.94	+	6.4	0.7/15.2	39978	1997 RL ₃	2000 04 16.7	13 40.66	-20 39.1	17.7	-0.99	+	3.1	3.5/19.6	40319
4220 T-2	2000 04 15.7	13 36.86	+01 41.5	18.2	-0.75	+	9.1	4.0/11.6	40282	(14312)	2000 04 16.7	13 40.68	-13 10.4	17.6	-1.05	+	6.4	1.1/17.6	39793
1981 EN ₁₆	2000 04 15.7	13 36.86	-24 04.9	18.7	-1.01	+	2.2	6.4/19.7	30468	1999 CJ ₇₈	2000 04 16.8	13 40.69	-07 12.8	17.9	-0.68	+	5.2	0.8/15.8	40352
(14337)	2000 04 15.7	13 36.91	-08 00.3	18.1	-0.85	+	6.7	0.7/15.1	39799	1998 QF ₉₂	2000 04 16.8	13 40.71	-14 35.5	16.7	-1.75	-	8.2	2.1/17.0	40332
2000 CF ₉₅	2000 04 15.8	13 37.06	-07 02.6	16.4	-1.20	-	3.1	1.4/15.2	40458	(10065)	2000 04 16.8	13 40.75	-16 10.7	16.0	-0.79	+	7.0	2.0/18.7	33873
1998 YJ ₂₁	2000 04 15.8	13 37.12	+08 20.7	18.3	-0.72	+	4.4	5.6/09.7	40062	1998 WD ₈	2000 04 16.8	13 40.82	-03 05.5	17.1	-0.87	+	3.3	2.5/14.7	40347
1991 VF ₁	2000 04 15.8	13 37.33	-12 24.1	17.3	-1.04	+	4.4	0.9/16.5	40298	1998 YD ₄	2000 04 16.8	13 40.83	-10 06.7	16.4	-0.77	+	5.3	0.1/16.7	40350
1994 PM ₂₅	2000 04 15.8	13 37.34	-05 26.0	18.7	-0.95	+	5.9	1.7/14.5	40306	1998 XE ₈₀	2000 04 16.8	13 40.84	-07 52.4	18.4	-0.80	+	8.1	0.8/16.0	40350
2000 CC ₂₈	2000 04 15.9	13 37.33	-09 24.0	15.8	-1.04	+	0.1	0.3/15.7	40099	1992 BC ₁	2000 04 16.8	13 40.86	+22 02.4	18.4	-0.92	+	5.3	9.7/06.0	40299
1995 FY ₂	2000 04 15.9	13 37.66	-14 42.2	18.1	-0.93	+													

2000 APR. 18

M.P.C. 40561

(10099)	2000 04 16.8	13 41.00	-06 28.6	18.4	-0.71	+	3.9	1.0/15.7	33881
1997 SZ ₂	2000 04 16.8	13 41.01	-12 13.3	18.0	-0.77	+	4.2	0.5/17.4	40319
1999 AM ₂₁	2000 04 16.8	13 41.03	-06 15.9	18.2	-0.91	+	5.6	1.4/15.6	40066
2000 GR ₉₃	2000 04 16.9	13 40.96	+05 53.8	17.6	-0.73	+	4.6	4.9/11.7	40268
1988 VE ₃	2000 04 16.9	13 41.01	-02 03.2	20.0	-0.91	+	1.9	2.3/14.6	34828
2000 CC ₅₉	2000 04 16.9	13 41.07	+12 27.6	16.3	-0.69	+	8.8	9.8/08.0	40453
6601 P-L	2000 04 16.9	13 41.07	-01 41.7	18.0	-0.93	+	8.4	3.5/14.1	40276
1998 XZ ₉₆	2000 04 16.9	13 41.10	+10 40.9	18.2	-0.78	+	4.1	6.1/10.1	38067
2000 GV	2000 04 16.9	13 41.14	-10 20.4	16.9	-0.81	+	5.1	8.3/28.0	40255
1996 UC ₃	2000 04 16.9	13 41.23	-16 17.4	19.5	-0.59	+	3.2	1.1/18.8	32055
1998 QE ₅₆	2000 04 16.9	13 41.32	+10 55.9	16.5	-0.89	+	21.5	9.1/07.9	39989
2272 T-3	2000 04 16.9	13 41.36	-14 10.8	17.8	-1.05	+	4.0	1.4/18.0	40534
4319 P-L	2000 04 17.0	13 41.34	-15 13.0	18.0	-1.03	+	6.9	2.1/18.4	40531
1998 VG ₃₇	2000 04 17.0	13 41.48	-16 56.1	20.1	-0.90	+	5.9	1.9/19.0	34538
1998 WN ₆	2000 04 17.0	13 41.58	-03 10.1	16.7	-0.71	+	7.3	2.4/14.6	40347
2000 EZ ₅₄	2000 04 17.0	13 41.74	+01 01.4	18.2	-0.69	+	7.2	3.2/13.1	40156
2000 GQ ₉₃	2000 04 17.1	13 41.84	+06 53.4	17.6	-0.97		0.0	6.2/12.8	40267
2000 CN ₅₆	2000 04 17.1	13 41.98	-15 05.4	15.8	-0.97	-	1.1	1.7/18.2	40102
(14352)	2000 04 17.1	13 42.01	-15 36.9	15.5	-1.01	+	4.0	2.5/18.5	39804
(14454)	2000 04 17.1	13 42.13	+00 24.6	17.3	-0.96	+	5.6	4.4/13.9	39835
1978 VU ₈	2000 04 17.1	13 42.15	-07 12.2	19.1	-0.92	+	4.7	1.1/16.2	40289
1996 FY ₂	2000 04 17.2	13 42.14	-17 40.4	16.7	-0.92	+	4.5	3.1/19.3	35695
(10263)	2000 04 17.2	13 42.26	-11 10.0	15.9	-0.79	+	9.8	0.2/17.4	34127
1994 PM ₃₈	2000 04 17.2	13 42.29	-11 28.4	17.6	-0.98	+	7.1	0.4/17.5	39957
1998 VW	2000 04 17.2	13 42.33	+01 18.6	18.5	-0.97	+	1.8	3.8/14.2	40345
1999 BW ₂₅	2000 04 17.2	13 42.38	-00 05.1	17.7	-0.79	+	6.6	3.1/13.8	40352
1992 EJ ₂₄	2000 04 17.2	13 42.49	+04 27.3	18.5	-0.89	+	5.7	4.7/12.6	40299
2000 EB ₉₇	2000 04 17.3	13 42.55	-17 41.4	16.2	-1.00	+	2.3	3.1/19.2	40180
(10616)	2000 04 17.3	13 42.57	-06 50.1	18.3	-0.87	+	5.9	1.4/16.2	34467
2000 EN ₁₀₄	2000 04 17.3	13 42.57	-05 53.4	16.3	-0.74	+	10.7	1.8/15.6	40183
2673 P-L	2000 04 17.3	13 42.62	-07 51.5	19.1	-0.83	+	4.6	0.9/16.5	33735
2000 GT ₉₃	2000 04 17.3	13 42.66	+05 51.7	18.0	-0.77	+	3.7	4.6/12.2	40268
(9911)	2000 04 17.3	13 42.69	-10 11.7	15.8	-1.02	+	1.4	0.2/17.2	33471
1998 UG	2000 04 17.3	13 42.74	-46 43.0	18.2	-1.35	+	3.1	11.9/29.4	34306
2000 GS ₈₈	2000 04 17.3	13 42.74	+03 06.3	18.0	-0.71	+	4.8	4.0/13.0	40264
1998 UC ₁₅	2000 04 17.4	13 42.84	+00 35.9	18.3	-0.87	+	6.0	4.3/13.9	40344
1998 XG ₅	2000 04 17.4	13 42.87	-20 30.5	18.7	-0.85	+	7.2	3.1/20.6	40049
1996 HP	2000 04 17.4	13 42.88	+01 47.3	16.8	-1.05	-	1.0	5.0/14.6	40312
1999 AH ₂₁	2000 04 17.4	13 42.90	-13 08.8	16.9	-0.81	+	5.6	0.9/18.2	40351
2000 GX ₅₅	2000 04 17.4	13 42.90	-06 46.6	17.4	-0.71	+	5.9	1.2/16.2	40261
1997 PM ₄	2000 04 17.4	13 42.93	-21 00.5	19.4	-0.93	+	4.4	3.2/20.4	33951
1998 XW ₄	2000 04 17.4	13 42.96	-10 58.2	17.9	-0.96	+	4.4	0.1/17.5	40049
1993 RH ₂	2000 04 17.4	13 43.08	-21 17.1	18.2	-1.07	+	1.3	3.5/20.1	39520
(14373)	2000 04 17.4	13 43.08	-12 14.7	15.9	-0.94	+	4.1	0.7/17.9	39811
1993 RP ₃	2000 04 17.4	13 43.13	-25 38.1	17.9	-0.90	+	6.3	4.4/22.3	39520
2000 CK ₁₀₄	2000 04 17.4	13 43.16	+07 46.2	16.0	-0.84	+	6.5	6.9/11.2	40459
1998 UA ₂₄	2000 04 17.4	13 43.18	-00 34.9	19.3	-0.98	+	4.0	3.6/14.7	40029
1998 XK ₃	2000 04 17.5	13 43.22	-34 42.5	19.3	-0.96	+	5.7	6.7/25.5	35727
1999 AA ₂	2000 04 17.5	13 43.23	-16 08.5	17.6	-0.89	+	5.8	1.9/19.2	34037
1975 LY	2000 04 17.5	13 43.39	-36 10.3	17.2	-1.04	+	3.0	9.4/25.4	33738
2000 GV ₈₈	2000 04 17.5	13 43.41	+04 49.5	17.6	-0.90	+	6.5	6.5/12.7	40264

2000 GN ₂	2000 04 17.5	13 43.50	-07 23.4	17.1	-0.90	+	7.9	1.2/16.5	40256
(9983)	2000 04 17.5	13 43.63	-05 29.2	17.4	-0.90	+	2.7	1.7/16.2	33667
(10421)	2000 04 17.6	13 43.77	-10 44.7	17.7	-0.95	+	5.9	0.0/17.6	34165
1998 SX ₃₄	2000 04 17.6	13 43.81	-02 32.9	18.3	-0.94	+	21.0	3.4/14.4	40004
4329 T-1	2000 04 17.6	13 43.86	-07 57.1	17.4	-1.02	+	3.9	1.1/16.9	40279
1236 T-1	2000 04 17.6	13 43.86	-16 37.1	17.8	-1.13	+	3.7	2.5/19.2	40532
(10509)	2000 04 17.6	13 43.96	-09 08.8	17.7	-0.74	+	5.3	0.4/17.2	34439
1997 WE ₃₆	2000 04 17.6	13 43.98	-07 23.9	18.1	-0.74	+	3.1	0.9/16.7	40321
(14370)	2000 04 17.7	13 43.93	+08 17.0	17.8	-0.86	+	2.3	5.8/12.4	39810
2000 GF ₈₉	2000 04 17.7	13 44.02	-01 40.5	17.0	-0.85	+	7.7	3.8/14.8	40265
1990 VH ₅	2000 04 17.7	13 44.03	+02 46.8	19.0	-0.91	+	4.4	4.5/13.7	40296
(14432)	2000 04 17.7	13 44.09	+01 20.8	17.5	-0.91	+	5.4	4.3/14.1	39828
1998 YG ₇	2000 04 17.7	13 44.22	-26 06.0	17.3	-0.87	+	2.8	4.9/22.3	39549
(14488)	2000 04 17.7	13 44.33	-15 23.3	16.6	-1.08	+	5.2	1.9/19.1	39844
(9988)	2000 04 17.8	13 44.36	-11 27.1	16.6	-0.82	+	4.0	0.2/18.0	33668
(14200)	2000 04 17.8	13 44.38	-02 33.5	16.6	-0.87	+	6.8	3.0/15.2	39108
1999 CX ₄	2000 04 17.8	13 44.39	-11 10.5	18.1	-0.82	+	4.0	0.1/17.9	40069
6075 P-L	2000 04 17.8	13 44.39	-07 58.3	19.7	-0.94	+	7.7	1.0/16.9	35402
1998 WN ₉	2000 04 17.8	13 44.49	-02 37.4	18.4	-1.00	+	2.9	3.1/15.7	40044
1998 SN ₅₀	2000 04 17.8	13 44.62	-12 45.7	17.3	-0.95	+	6.0	0.8/18.4	40338
1997 SX	2000 04 17.8	13 44.71	-05 16.8	17.5	-0.82	+	2.2	1.6/16.3	40319
1997 WC ₄₅	2000 04 17.8	13 44.71	-16 53.9	17.7	-0.76	+	6.3	1.8/19.8	40321
2000 EV ₁₀₉	2000 04 17.8	13 44.72	+00 35.6	18.2	-0.64	+	7.8	2.9/13.8	40188
1997 QE	2000 04 17.8	13 44.72	-03 01.7	18.5	-0.95	+	8.4	3.2/15.4	39979
(14758)	2000 04 17.9	13 44.72	-10 42.4	16.8	-0.83	+	3.5	0.0/17.9	39920
1999 CU ₁₇	2000 04 17.9	13 44.85	-12 34.4	17.4	-0.80	+	4.5	0.5/18.5	40352
(14136)	2000 04 17.9	13 44.96	-16 52.9	16.7	-1.02	+	5.9	2.4/19.7	39090
2000 EA ₁₁₄	2000 04 17.9	13 45.06	-03 23.2	17.7	-0.71	+	7.8	2.4/15.4	40192
1998 SE ₁₂₆	2000 04 17.9	13 45.07	-03 39.9	17.6	-0.97	+	3.3	2.7/16.1	40340
2082 P-L	2000 04 18.0	13 45.10	-15 52.4	18.3	-1.00	+	6.6	2.0/19.5	40530
2000 GX ₈₈	2000 04 18.0	13 45.10	+01 37.4	17.2	-0.92	+	5.0	4.4/14.3	40264
2000 GV ₉₃	2000 04 18.0	13 45.12	+07 02.9	17.6	-0.75	+	4.7	5.1/12.2	40268
(10249)	2000 04 18.0	13 45.28	-08 22.9	18.0	-0.91	+	4.0	0.8/17.3	33918
1999 AV ₅	2000 04 18.1	13 45.52	-24 12.1	18.4	-0.98	+	2.0	4.2/21.7	34936
1998 UY ₂₉	2000 04 18.1	13 45.54	+00 39.6	18.4	-1.02	+	3.4	4.7/15.0	40030
1998 VY ₄₁	2000 04 18.1	13 45.64	-05 55.5	21.1	-0.81	+	4.5	1.4/16.7	33710
1979 MH ₈	2000 04 18.1	13 45.66	-09 16.3	18.6	-0.95	+	6.8	0.7/17.7	39931
1981 EB ₅	2000 04 18.1	13 45.85	-24 19.5	18.7	-0.91	+	3.9	4.6/22.2	26915
1996 JF ₁	2000 04 18.2	13 45.81	-11 26.8	16.8	-0.86	+	6.9	0.2/18.4	40313
1998 SJ ₂₅	2000 04 18.2	13 45.95	-00 03.5	17.3	-0.98	+	4.8	4.6/15.1	40337
1994 RT ₁₁	2000 04 18.2	13 45.95	-16 54.4	18.1	-0.98	+	7.1	2.2/20.0	38763
1986 QN ₁	2000 04 18.2	13 46.06	-25 58.0	18.4	-0.91	+	1.9	4.3/22.4	34283
2000 GB ₉₀	2000 04 18.2	13 46.08	-00 23.8	17.9	-0.96	+	5.2	3.8/15.2	40266
2000 GY ₈₈	2000 04 18.2	13 46.12	+00 27.9	17.3	-1.01	+	5.1	4.9/14.9	40265
1982 VF ₄	2000 04 18.3	13 46.17	-10 43.9	18.1	-1.02	+	7.0	0.1/18.2	40291
(10123)	2000 04 18.3	13 46.17	-05 31.4	17.0	-1.02	+	4.9	2.0/16.8	33887
1996 HO ₁₃	2000 04 18.3	13 46.22	-11 23.1	17.1	-0.86	+	6.6	0.2/18.4	39968
1998 YD ₇	2000 04 18.3	13 46.22	-11 17.5	16.9	-0.83	+	4.1	0.1/18.4	40060
1997 UG ₁	2000 04 18.3	13 46.30	-09 30.4	17.5	-0.85	+	2.1	0.4/17.9	40320
1994 PY ₉	2000 04 18.3	13 46.37	-11 18.4	18.2	-1.01	+	6.0	0.1/18.4	39956
1998 TA ₃₁	2000 04 18.3	13 46.58	-13 14.3	16.6	-0.97	+	2.9	0.9/19.0	40023

1995 CD ₃	2000 04 18.4	13 46.61	-07 10.8	19.3	-0.83	+	5.9	1.4/17.2	30761
1981 QP ₂	2000 04 18.4	13 46.68	-01 27.1	18.5	-0.97	+	6.7	3.5/15.5	39934
2000 EG ₅₅	2000 04 18.4	13 46.78	-02 19.5	17.0	-0.83	+	1.6	2.9/16.1	40480
1997 VE ₃	2000 04 18.4	13 46.82	-16 39.1	17.6	-0.76	+	6.5	1.7/20.3	40321
1999 AN ₃₀	2000 04 18.4	13 46.89	-13 12.8	18.4	-0.93	+	5.3	0.7/19.1	40351
1992 BU ₄	2000 04 18.4	13 46.91	-05 06.2	20.5	-0.91	+	6.7	1.9/16.7	30290
1997 KW	2000 04 18.5	13 46.91	+00 08.0	17.9	-1.01	+	6.4	4.2/15.1	40318
1995 GP ₇	2000 04 18.5	13 46.92	-03 45.9	18.2	-0.86	+	3.3	2.7/16.4	39960
(9980)	2000 04 18.5	13 46.93	+01 13.6	17.8	-0.81	+	5.8	3.7/14.7	33666
1996 LM ₂	2000 04 18.5	13 47.16	+02 00.3	18.4	-0.84	+	5.2	4.5/14.6	39971
(11356)	2000 04 18.5	13 47.21	+02 09.3	18.1	-0.80	+	2.3	3.7/14.8	35579
1998 YX ₂	2000 04 18.5	13 47.23	-16 36.1	19.0	-0.86	+	8.0	1.9/20.4	35729
1031 T-2	2000 04 18.6	13 47.38	-05 45.9	19.3	-0.92	+	7.8	1.9/17.0	24236
(14548)	2000 04 18.6	13 47.38	-15 32.1	16.7	-0.74	+	6.5	1.3/20.1	39860
1997 PC ₅	2000 04 18.6	13 47.48	-11 27.2	17.0	-0.90	+	6.3	0.2/18.8	39978
2000 FG ₁₀	2000 04 18.6	13 47.49	+02 38.2	16.6	-1.03	+	2.1	5.6/15.0	40221
1978 RB ₁₀	2000 04 18.6	13 47.68	-17 33.2	18.9	-1.11	+	4.2	2.6/20.4	33539
1997 WP ₃₈	2000 04 18.7	13 47.73	-12 19.4	18.8	-0.75	+	4.1	0.3/19.1	40321
1990 RW ₈	2000 04 18.7	13 47.76	-23 08.8	18.4	-1.04	+	5.5	4.9/22.0	30686
2000 GR ₈₉	2000 04 18.7	13 47.79	+00 11.8	15.5	-1.04	-	0.9	4.6/16.2	40265
1997 WM ₁₅	2000 04 18.7	13 48.04	-08 07.4	20.0	-0.72	+	4.1	0.8/17.9	34212
2000 GX ₅₆	2000 04 18.8	13 48.26	-09 53.9	17.4	-1.06	+	1.8	0.5/18.5	40262
1998 UC ₁	2000 04 18.8	13 48.27	-01 39.6	18.8	-0.94	+	6.0	3.4/16.0	40343
1998 WQ ₂	2000 04 18.8	13 48.29	-11 46.6	18.3	-0.82	+	8.0	0.2/19.1	40041
(11761)	2000 04 18.8	13 48.30	-11 35.8	19.0	-0.80	+	4.0	0.1/19.0	40288
(14510)	2000 04 18.8	13 48.39	-18 26.6	17.2	-1.07	+	3.9	2.6/20.8	39850
1995 YS	2000 04 18.8	13 48.46	+26 15.7	17.2	-1.36	-	6.9	16.0/12.6	39962
1999 BK ₉	2000 04 18.8	13 48.48	-22 45.1	19.1	-0.90	+	4.7	3.1/22.4	34317
1986 TR ₁₁	2000 04 18.9	13 48.40	-19 01.9	16.7	-0.97	+	8.6	3.1/21.4	40292
2000 EJ ₅₅	2000 04 18.9	13 48.45	+00 01.3	18.2	-0.79	+	4.9	3.6/15.5	40156
1977 XZ ₂	2000 04 18.9	13 48.57	-12 39.2	17.0	-0.82	+	4.2	0.5/19.4	40288
1996 NB	2000 04 18.9	13 48.69	+05 01.2	19.5	-0.74	+	5.5	4.9/13.6	39972
2000 GH ₄	2000 04 18.9	13 48.70	+17 02.2	17.9	-0.81	+	18.6	12.9/06.5	40257
1998 VC ₅	2000 04 18.9	13 48.71	-08 59.3	17.2	-0.94	+	5.2	0.9/18.3	40033
(10128)	2000 04 18.9	13 48.74	-03 04.9	18.1	-0.96	+	6.5	2.8/16.5	33888
1993 FJ ₄₀	2000 04 18.9	13 48.83	-04 28.9	16.8	-0.91	+	7.7	2.8/16.9	40302
1998 VS ₃₄	2000 04 18.9	13 48.83	+01 37.8	18.5	-0.80	+	8.6	4.2/14.7	40040
1998 VM ₇	2000 04 18.9	13 48.84	-03 21.2	17.4	-1.05	+	2.9	3.3/17.0	40345
1998 RV ₄	2000 04 19.0	13 48.77	+15 57.3	18.6	-0.95	+	14.7	10.8/08.2	40333
2000 FD ₅	2000 04 19.0	13 48.85	+04 21.1	17.3	-0.94	+	3.2	5.7/14.6	40219
1997 WX ₁	2000 04 19.0	13 48.87	-14 14.7	18.8	-0.92	+	4.4	1.1/19.9	33962
1998 TH ₁₅	2000 04 19.0	13 49.08	-11 22.5	20.1	-0.93	+	5.5	0.1/19.1	40343
1999 AF ₁₉	2000 04 19.0	13 49.11	-28 42.4	17.5	-0.85	+	2.9	5.1/24.2	35080
1998 YK ₂₂	2000 04 19.1	13 49.27	-19 51.5	18.7	-0.94	+	6.1	2.9/21.7	35730
1995 CP ₃	2000 04 19.1	13 49.38	-08 29.2	18.7	-0.87	+	6.1	1.0/18.3	40308
(9922)	2000 04 19.2	13 49.76	-13 50.0	18.9	-0.95	+	5.1	0.8/20.0	33653
1991 PP ₁₁	2000 04 19.2	13 49.76	-05 07.2	17.2	-0.80	+	8.0	2.1/17.2	40297
1998 YY ₁₅	2000 04 19.2	13 49.86	-08 38.6	18.6	-0.74	+	4.4	0.7/18.5	40351
2000 EY ₁₄₁	2000 04 19.2	13 49.90	+09 59.2	17.1	-0.67	+	6.6	6.5/11.7	40493
1994 YX	2000 04 19.2	13 49.97	-18 25.0	17.8	-0.92	+	5.1	2.4/21.4	40307
(14207)	2000 04 19.3	13 49.99	+05 52.1	16.5	-0.79	+	3.2	5.5/14.1	39110

1996 OV ₂	2000 04 19.3	13 50.03	-11 20.1	17.8	-0.84	+	3.7	0.0/19.3	39972
1999 CJ ₃₅	2000 04 19.3	13 50.06	-19 41.2	17.3	-0.89	+	1.9	2.6/21.6	40352
1994 PU ₃₈	2000 04 19.3	13 50.07	-12 05.5	18.5	-1.03	+	5.6	0.3/19.6	39957
1997 SV ₃	2000 04 19.3	13 50.13	-17 59.3	20.2	-0.86	+	3.3	1.7/21.2	31145
4555 P-L	2000 04 19.3	13 50.21	-08 38.4	18.8	-0.94	+	5.9	0.9/18.6	40531
1998 SK ₁₄₄	2000 04 19.3	13 50.23	-11 38.1	17.4	-1.11	+	2.9	0.1/19.4	40017
2000 GK ₈₅	2000 04 19.3	13 50.26	+13 39.3	17.2	-0.69	+	7.4	7.2/10.1	40263
3074 T-1	2000 04 19.4	13 50.28	-15 51.0	18.4	-0.82	+	2.8	1.5/20.7	40532
1981 EJ ₄₇	2000 04 19.4	13 50.32	-03 36.6	19.5	-0.84	+	7.7	3.2/16.9	26923
1997 RY ₈	2000 04 19.4	13 50.43	-01 18.8	17.3	-0.72	+	6.9	3.2/16.1	40319
1998 UA ₁	2000 04 19.4	13 50.55	-08 22.2	18.3	-1.02	+	3.9	1.1/18.7	40343
1969 TY ₁	2000 04 19.5	13 50.84	-10 02.8	17.3	-0.72	+	5.4	0.4/19.1	40288
(14465)	2000 04 19.5	13 50.89	+11 32.7	16.5	-0.91	+	6.0	7.7/11.9	39837
1999 CY ₇₅	2000 04 19.5	13 50.90	-22 20.6	18.4	-0.82	+	3.8	3.0/22.8	34940
(14338)	2000 04 19.5	13 50.99	+01 33.9	16.2	-0.89	+	0.9	4.3/16.2	39800
2000 EZ ₁₄₁	2000 04 19.5	13 51.01	+12 42.6	16.4	-0.80	+	5.0	9.2/11.6	40206
2000 GD ₉₄	2000 04 19.5	13 51.05	+05 26.2	17.5	-0.77	+	3.5	5.2/14.4	40268
1993 FH ₂₃	2000 04 19.6	13 51.01	-11 55.1	17.5	-0.96	+	8.0	0.2/19.8	39947
1999 CH ₆₂	2000 04 19.6	13 51.02	-09 58.3	17.2	-0.70	+	6.7	0.4/19.1	40071
2000 GY	2000 04 19.6	13 51.05	-09 38.7	17.9	-0.84	+	6.7	0.6/19.1	40256
1998 XC ₉₄	2000 04 19.6	13 51.13	-09 53.1	17.3	-0.83	+	5.3	0.5/19.2	40350
6224 P-L	2000 04 19.6	13 51.22	-11 39.9	18.5	-0.81	+	6.1	0.1/19.7	40531
1998 XQ ₈₇	2000 04 19.6	13 51.31	-11 23.2	17.6	-0.99	+	6.2	0.0/19.6	40350
1997 TV ₁₂	2000 04 19.6	13 51.45	-12 51.0	18.1	-0.81	+	4.4	0.5/20.1	40320
1993 FF ₂₅	2000 04 19.7	13 51.41	-10 28.1	16.9	-0.88	+	8.5	0.4/19.4	40302
1998 XO	2000 04 19.7	13 51.41	-15 18.6	17.1	-0.92	+	3.8	1.5/20.8	40348
1998 UL ₂₃	2000 04 19.7	13 51.43	-08 09.0	18.1	-0.96	+	4.1	1.2/18.8	40344
1997 TN ₂₆	2000 04 19.8	13 51.94	-12 13.1	17.0	-1.03	+	1.3	0.2/20.0	40320
1997 VQ ₆	2000 04 19.8	13 51.99	-10 11.2	19.9	-0.73	+	3.7	0.3/19.5	31150
(13959)	2000 04 19.8	13 52.05	-00 55.6	16.3	-0.75	+	10.4	4.0/16.1	39040
1997 TE ₂₅	2000 04 19.8	13 52.16	-09 52.3	18.6	-0.88	+	5.9	0.5/19.4	40320
(10166)	2000 04 19.8	13 52.17	-06 29.9	18.0	-0.88	+	4.3	1.6/18.4	33897
2000 CQ ₇₅	2000 04 19.9	13 52.14	+11 50.5	17.4	-0.83	+	3.9	6.7/12.8	40105
1998 SM ₁₄₄	2000 04 19.9	13 52.22	-11 31.1	18.1	-0.95	+	6.2	0.0/19.9	40341
1981 EJ ₂₅	2000 04 19.9	13 52.24	-09 04.0	17.5	-0.83	+	6.4	1.1/19.2	40290
1997 VR ₇	2000 04 19.9	13 52.25	-06 38.6	16.6	-0.85	+	1.8	1.5/18.6	40321
1995 BN ₄	2000 04 19.9	13 52.26	-26 37.2	18.0	-0.99	+	2.9	4.8/24.2	33749
1998 TL ₆	2000 04 19.9	13 52.40	+01 48.3	19.3	-0.88	+	4.6	4.7/16.1	33570
1987 QC ₃	2000 04 19.9	13 52.49	-21 30.7	17.6	-1.04	+	4.9	3.6/22.8	40292
1995 MA	2000 04 20.0	13 52.51	-08 33.5	18.1	-0.68	+	7.5	0.8/19.0	39961
1997 CT ₁	2000 04 20.0	13 52.55	-14 20.8	19.0	-0.60	+	3.4	0.5/20.9	31423
1990 ST ₈	2000 04 20.0	13 52.59	-09 10.6	17.9	-1.02	+	4.3	0.9/19.4	40295
(13521)	2000 04 20.0	13 52.59	-05 08.3	16.7	-0.97	+	2.9	2.5/18.3	38322
1981 EZ ₃₀	2000 04 20.0	13 52.68	-15 20.1	18.3	-0.86	+	4.1	1.2/21.1	33540
1998 VY ₅	2000 04 20.0	13 52.70	+10 50.9	17.7	-0.93	+	3.6	7.2/13.4	40034
1998 TU	2000 04 20.0	13 52.81	-11 16.5	18.0	-1.08	+	2.9	0.1/20.0	40342
1989 GQ ₁	2000 04 20.0	13 52.83	-13 55.2	17.4	-0.98	+	6.0	0.9/20.7	40293
1998 SN ₁₄₄	2000 04 20.0	13 52.95	-12 59.6	18.0	-1.08	+	2.2	0.5/20.4	40017
1992 WP ₁	2000 04 20.1	13 52.93	+06 54.1	17.4	-0.77	+	2.8	5.2/14.6	40300
7075 P-L	2000 04 20.1	13 52.96	-10 03.2	17.7	-0.74	+	6.5	0.4/19.6	40531
2000 BE ₁	2000 04 20.1	13 53.02	+10 44.3	16.5	-0.68	+	21.6	9.8/10.3	40096

2000 APR. 18

M.P.C. 40563

1994 YC	2000 04 20.1	13 53.02	-20 15.2	18.0	-0.94	+	4.4	3.3/22.6	40307
1990 WR ₂	2000 04 20.2	13 53.24	+01 47.9	18.0	-0.92	+	3.6	4.3/16.5	40296
1985 SC ₁	2000 04 20.2	13 53.28	-12 49.7	17.3	-0.83	+	3.8	0.4/20.6	39935
(9909)	2000 04 20.2	13 53.42	-05 13.3	17.4	-0.93	+	5.9	2.2/18.3	33470
(12053)	2000 04 20.2	13 53.54	-22 53.3	17.4	-1.03	+	4.5	4.5/23.4	36287
1998 XR ₂₀	2000 04 20.2	13 53.66	-12 17.0	18.1	-0.80	+	4.7	0.2/20.5	40052
1997 UK ₈	2000 04 20.2	13 53.67	-09 25.1	18.6	-0.73	+	3.7	0.6/19.6	40320
1985 RJ ₄	2000 04 20.3	13 53.75	-11 27.1	17.9	-0.77	+	3.7	0.1/20.3	40292
1998 YY ₃	2000 04 20.3	13 53.78	-02 47.5	18.8	-0.94	+	3.1	2.9/18.0	35729
1998 VK ₂₈	2000 04 20.3	13 53.85	-05 58.3	19.3	-0.97	+	4.1	1.9/18.8	35724
(10155)	2000 04 20.3	13 53.92	-10 48.2	18.1	-1.03	+	3.0	0.3/20.1	33894
1993 RM ₁₅	2000 04 20.4	13 54.01	-18 16.7	19.1	-0.95	+	3.2	2.0/22.2	33937
1998 WN ₁₉	2000 04 20.4	13 54.02	-28 21.3	18.5	-0.94	+	5.3	4.8/25.5	35727
1997 VE ₄	2000 04 20.4	13 54.05	-18 29.7	18.3	-0.90	+	7.3	2.2/22.0	40321
2241 T-3	2000 04 20.4	13 54.06	-15 01.9	20.7	-0.91	+	4.8	1.1/21.4	30286
1996 CQ ₇	2000 04 20.4	13 54.10	-09 05.4	16.9	-0.90	+	4.1	1.2/19.7	39964
1994 WL ₃	2000 04 20.4	13 54.12	-04 53.1	18.2	-0.89	+	5.4	2.3/18.4	40307
1999 AK ₅	2000 04 20.4	13 54.35	-15 52.2	17.4	-0.88	+	1.9	1.2/21.6	40064
(10096)	2000 04 20.4	13 54.36	-17 13.6	16.9	-0.88	+	1.8	1.7/21.9	33881
2000 GE ₉₄	2000 04 20.4	13 54.40	+05 21.8	17.7	-0.75	+	5.0	4.9/14.9	40268
2000 CH ₆₇	2000 04 20.4	13 54.41	+14 11.6	16.9	-0.59	+	5.1	5.9/11.3	40454
1998 VT ₆	2000 04 20.5	13 54.41	-06 09.5	17.5	-1.01	+	5.4	2.1/18.9	40345
2000 CG ₉₅	2000 04 20.5	13 54.53	+00 33.5	16.7	-1.01	+	4.2	5.6/17.0	40109
1996 JY ₉	2000 04 20.5	13 54.67	-07 14.9	20.4	-0.87	+	4.6	1.5/19.3	39970
9062 P-L	2000 04 20.5	13 54.76	-13 41.5	17.5	-0.88	+	5.3	0.6/21.2	40532
(10787)	2000 04 20.6	13 54.74	-19 02.4	18.9	-0.77	+	4.2	2.0/22.8	34767
1994 PV ₂₉	2000 04 20.6	13 54.94	-12 38.7	19.6	-0.99	+	6.7	0.3/20.9	32459
1981 JR ₁	2000 04 20.6	13 55.09	-13 07.9	15.8	-1.23	-	4.7	0.7/20.9	39934
2000 GN ₉₀	2000 04 20.6	13 55.14	+00 55.9	17.3	-0.92	+	4.5	5.9/17.0	40266
1997 UY ₁₄	2000 04 20.6	13 55.16	-09 21.9	17.8	-0.79	+	3.8	0.7/20.0	40320
1998 SZ ₁₃	2000 04 20.6	13 55.27	-22 53.9	19.0	-1.60	-	3.9	5.0/22.5	33017
2545 P-L	2000 04 20.7	13 55.11	-17 05.9	18.2	-0.92	+	2.4	1.6/22.0	33995
1989 TU ₁	2000 04 20.7	13 55.14	-19 24.1	18.0	-0.87	+	5.5	2.2/23.0	34575
6113 P-L	2000 04 20.7	13 55.21	-13 39.2	17.5	-0.92	+	4.6	0.7/21.2	40531
(9813)	2000 04 20.7	13 55.28	-11 21.4	17.0	-0.99	+	6.1	0.2/20.6	33214
(11301)	2000 04 20.7	13 55.29	-20 32.7	17.5	-0.77	+	5.5	2.4/23.5	35566
1994 UD ₂	2000 04 20.7	13 55.38	-10 38.3	18.4	-1.01	+	3.7	0.4/20.4	40306
1998 UP ₁₈	2000 04 20.8	13 55.53	-19 14.6	17.3	-0.98	+	6.6	2.8/23.0	40344
1998 VH ₉	2000 04 20.8	13 55.67	-03 13.5	17.6	-1.08	+	2.6	3.5/18.7	40035
(11334)	2000 04 20.8	13 55.72	-04 36.2	17.4	-1.06	+	0.3	2.6/19.2	35574
2000 GJ ₁₃₁	2000 04 20.9	13 55.89	-11 41.7	19.4	-0.92	+	6.3	0.1/20.9	40271
1996 KU ₁	2000 04 20.9	13 55.95	-10 27.4	17.3	-0.77	+	11.8	0.6/20.4	39971
(10124)	2000 04 20.9	13 56.20	-19 50.2	17.2	-1.13	+	2.5	3.0/22.9	33887
(14433)	2000 04 20.9	13 56.22	-03 02.9	17.7	-0.88	+	7.3	3.5/18.2	39828
1997 RW ₂	2000 04 21.0	13 56.35	-16 32.5	18.9	-0.89	+	3.9	1.5/22.3	34016
1998 YK ₂₇	2000 04 21.0	13 56.35	-13 01.0	17.0	-0.74	+	5.7	0.4/21.4	40062
1979 OH ₁₀	2000 04 21.0	13 56.41	+03 10.3	19.4	-0.70	+	5.4	4.1/16.1	29296
1994 VP	2000 04 21.0	13 56.47	-11 17.3	18.7	-1.11	+	3.1	0.2/20.9	40307
1988 VP ₃	2000 04 21.0	13 56.52	-11 20.2	18.1	-1.08	+	3.2	0.2/20.9	40293
1998 VT ₁₃	2000 04 21.0	13 56.66	-14 30.8	18.5	-1.09	+	3.9	1.0/21.8	40036
(14668)	2000 04 21.1	13 56.79	-24 51.4	16.6	-0.92	+	6.5	4.2/25.1	39895

2000 GM ₉₀	2000 04 21.1	13 56.79	+02 02.6	17.1	-0.72	+	6.6	4.4/16.5	40266
(9989)	2000 04 21.1	13 56.80	-10 45.2	16.9	-0.81	+	5.0	0.4/20.8	38016
(10018)	2000 04 21.1	13 56.86	-09 50.4	16.7	-0.76	+	4.7	0.7/20.5	40288
(9898)	2000 04 21.1	13 56.87	-01 36.8	16.0	-0.93	+	5.4	3.8/18.1	33468
1993 TM ₂₆	2000 04 21.1	13 56.95	-04 03.1	18.1	-0.80	+	7.4	2.8/18.6	40304
1998 XJ ₉	2000 04 21.1	13 57.03	-01 15.6	18.3	-0.98	+	3.4	4.0/18.3	40050
(9852)	2000 04 21.2	13 57.05	-15 33.8	18.0	-0.97	+	3.4	1.3/22.2	33457
1991 RD ₁₆	2000 04 21.2	13 57.05	-05 14.0	19.2	-0.98	+	6.5	2.4/19.2	34495
1994 PK ₁₁	2000 04 21.2	13 57.21	-19 08.2	18.0	-0.99	+	5.2	2.4/23.3	35690
1995 BH	2000 04 21.3	13 57.38	-15 29.0	17.6	-0.91	+	5.0	1.4/22.3	40307
1998 WF ₂₃	2000 04 21.3	13 57.44	-16 17.7	19.0	-0.99	+	5.8	1.5/22.6	35727
1991 PR ₁	2000 04 21.3	13 57.49	-29 42.0	17.5	-0.88	+	3.7	5.5/26.7	23339
1999 CD ₆₃	2000 04 21.3	13 57.54	-03 55.3	17.0	-0.78	+	7.0	2.6/18.7	40352
1998 SU ₁₂	2000 04 21.3	13 57.54	+13 28.7	20.7	-0.90	+	7.2	7.9/13.0	33566
1998 BT ₂₆	2000 04 21.3	13 57.60	-33 07.0	18.2	-0.93	+	1.6	6.1/27.3	35704
1992 AM	2000 04 21.3	13 57.67	+24 41.6	19.8	-1.02	+	1.5	11.2/10.5	34287
1988 VM ₅	2000 04 21.3	13 57.68	-08 43.8	19.6	-0.80	+	4.4	0.9/20.4	40293
1999 FH ₄	2000 04 21.3	13 57.78	+03 53.9	18.5	-0.70	+	6.2	3.9/16.0	34945
1999 AJ ₂	2000 04 21.3	13 57.80	+00 27.7	17.6	-0.82	+	2.2	4.0/17.9	40063
(14420)	2000 04 21.4	13 57.76	+05 11.0	16.9	-0.76	+	4.2	4.9/16.0	39824
1996 FD	2000 04 21.4	13 57.91	-11 48.4	16.5	-1.11	-	0.8	0.1/21.4	39965
1994 VQ ₂	2000 04 21.4	13 57.93	-12 10.9	18.5	-0.98	+	4.2	0.0/21.5	39959
1999 CJ ₁₈	2000 04 21.4	13 58.13	+00 34.7	17.5	-0.82	+	2.2	3.7/18.0	40070
1998 YJ ₃	2000 04 21.4	13 58.16	-22 42.5	17.7	-1.08	+	4.6	4.1/24.4	34035
1992 SC ₂	2000 04 21.5	13 58.28	-07 56.8	18.3	-0.80	+	4.5	1.2/20.3	35423
(9792)	2000 04 21.5	13 58.33	+08 32.0	16.9	-0.96	+	3.4	8.2/15.8	33209
1991 RF ₂	2000 04 21.5	13 58.37	-26 11.9	16.9	-0.86	+	2.8	4.1/25.6	40297
1991 VE ₅	2000 04 21.5	13 58.55	-05 16.1	16.8	-1.04	+	5.6	2.7/19.7	39944
1998 XJ ₁₆	2000 04 21.6	13 58.48	+05 36.4	17.5	-0.98	+	3.0	5.8/16.8	40052
1998 SD ₂₄	2000 04 21.6	13 58.53	-18 49.5	17.0	-1.75	-	7.7	3.4/22.4	40337
1998 XN ₈	2000 04 21.6	13 58.70	+12 11.3	18.8	-0.87	+	4.1	7.7/14.0	34032
1981 EV ₂₇	2000 04 21.6	13 58.74	-07 53.1	18.2	-0.80	+	5.7	1.3/20.4	40290
1998 UN ₂₂	2000 04 21.6	13 58.86	-14 20.4	17.5	-0.93	+	8.6	0.9/22.4	40029
2000 FH ₅	2000 04 21.6	13 58.92	+02 24.1	17.4	-0.92	+	1.0	6.0/18.1	40219
1985 SW ₄	2000 04 21.7	13 58.87	-13 14.0	16.9	-0.84	+	2.3	0.3/22.0	22698
1994 EU ₆	2000 04 21.7	13 58.97	+06 58.9	19.3	-0.73	+	4.4	5.0/15.8	40305
1999 CZ ₂₃	2000 04 21.7	13 59.00	+00 09.1	19.9	-0.72	+	4.3	3.3/18.0	34939
1975 SR	2000 04 21.7	13 59.16	-10 42.2	19.6	-0.95	+	5.9	0.5/21.3	34001
5049 T-2	2000 04 21.8	13 59.24	-27 42.1	17.4	-0.97	+	6.3	7.0/26.7	40533
1989 SO ₁	2000 04 21.8	13 59.40	-05 12.4	17.2	-0.90	+	3.3	2.6/20.0	40294
1997 SD ₂₅	2000 04 21.8	13 59.50	-07 44.3	17.3	-0.72	+	6.8	1.3/20.4	40319
1998 YS	2000 04 21.8	13 59.57	-07 36.7	17.8	-0.80	+	3.6	1.5/20.6	35640
1998 XP ₃	2000 04 21.8	13 59.61	-14 43.8	19.9	-1.00	+	4.5	0.9/22.6	34031
(14599)	2000 04 21.8	13 59.66	-04 46.2	16.8	-1.02	+	2.9	3.4/20.0	39876
(14748)	2000 04 21.9	13 59.85	-12 21.9	16.8	-0.90	+	3.9	10.1/12.0	39918
(10151)	2000 04 21.9	13 59.97	-21 19.3	17.7	-1.09	+	3.8	3.3/24.3	33894
(10172)	2000 04 21.9	14 00.04	-15 43.4	17.0	-0.91	+	2.8	1.2/22.9	38016
(14036)	2000 04 22.0	14 00.16	-11 02.9	16.7	-0.79	+	7.0	0.4/21.7	39061
1990 UE ₅	2000 04 22.0	14 00.31	-04 27.3	17.1	-0.96	+	20.8	3.4/19.1	40296
(13506)	2000 04 22.0	14 00.42	+01 10.0	16.7	-0.96	+	3.6	6.0/18.5	38317
2369 T-3	2000 04 22.1	14 00.51	-17 29.9	17.7	-0.99	+	6.0	2.2/23.6	40534

1999 AM ₁₄	2000 04 22.1	14 00.59 -14 15.0 18.1	-0.88 + 4.5	0.6/22.7	40066	1998 XW ₉	2000 04 23.1	14 04.33 -10 23.5 17.4	-0.81 + 4.9	0.7/22.5	40349
1997 UK ₅	2000 04 22.1	14 00.60 -33 40.4 18.4	-1.08 + 2.5	7.0/27.8	38045	1998 QH ₉₃	2000 04 23.1	14 04.47 -21 54.8 17.3	-0.89 + 7.7	3.0/26.1	40332
1999 AT ₄	2000 04 22.1	14 00.64 +03 36.5 17.8	-0.77 + 3.2	4.7/17.4	40064	1993 FV ₂₇	2000 04 23.1	14 04.50 -16 01.9 17.2	-1.00 + 5.4	1.5/24.1	40302
1998 VJ	2000 04 22.1	14 00.76 +03 22.7 18.0	-0.99 + 0.4	5.4/18.5	40031	2058 T-2	2000 04 23.2	14 04.49 -10 26.3 18.1	-0.96 + 5.9	0.9/22.6	40533
1999 CA	2000 04 22.1	14 00.76 -10 43.0 16.8	-0.82 + 3.6	0.5/21.7	40352	(9981)	2000 04 23.2	14 04.50 -09 30.2 17.0	-0.85 + 5.2	1.1/22.3	33666
1999 BL ₁₂	2000 04 22.1	14 00.78 -03 33.2 16.7	-1.04 + 3.8	3.3/19.9	40067	(9847)	2000 04 23.2	14 04.61 -13 42.6 18.3	-0.98 + 4.3	0.4/23.5	33456
1993 WH	2000 04 22.2	14 00.75 -35 38.6 18.1	-1.13 +16.1	10.3/01.2	35689	1989 GK ₁	2000 04 23.2	14 04.63 -20 25.9 18.8	-0.87 + 1.8	2.4/25.3	40293
2000 GX ₉₀	2000 04 22.2	14 00.76 +01 53.1 16.0	-0.80 + 7.9	4.6/17.5	40266	(10227)	2000 04 23.2	14 04.70 -22 00.4 17.0	-0.75 + 6.3	2.6/26.2	33912
1993 SV ₃	2000 04 22.2	14 00.84 -27 00.2 17.2	-1.51 - 5.5	6.3/24.3	34190	(10429)	2000 04 23.2	14 04.90 -01 52.2 18.0	-0.80 + 9.0	3.6/19.7	34167
1999 AA ₇	2000 04 22.2	14 00.97 -12 56.8 17.7	-0.93 + 5.5	0.2/22.4	40351	1998 XU ₂₀	2000 04 23.3	14 05.01 -07 16.9 19.9	-0.89 + 4.6	1.6/21.8	38798
1992 DV ₉	2000 04 22.2	14 00.99 -11 24.1 19.1	-0.92 + 6.4	0.4/22.0	40299	1998 YS ₂	2000 04 23.3	14 05.04 +11 04.5 17.9	-0.72 + 3.5	6.5/15.8	40059
1989 AN ₃	2000 04 22.3	14 01.44 -03 11.1 17.5	-0.97 + 5.1	3.3/19.8	39938	1998 VV ₃₀	2000 04 23.3	14 05.11 -14 49.3 18.4	-0.98 + 4.6	0.7/23.9	35724
(10133)	2000 04 22.4	14 01.52 -06 35.1 16.6	-1.04 + 3.8	2.3/20.9	33889	(14394)	2000 04 23.3	14 05.28 -04 39.0 15.9	-0.68 + 8.2	2.4/20.7	39817
1998 SY ₁₁₇	2000 04 22.4	14 01.70 -15 38.4 18.3	-1.01 + 5.2	1.2/23.4	35719	1997 NO	2000 04 23.3	14 05.29 -00 54.2 18.4	-0.88 + 5.6	4.8/19.9	39977
(13956)	2000 04 22.4	14 01.72 -01 41.6 15.8	-0.82 + 7.2	4.2/19.1	39039	1997 UT ₃	2000 04 23.4	14 05.24 -12 41.9 18.4	-0.73 + 4.0	0.0/23.4	40320
1991 SN ₁	2000 04 22.4	14 01.76 -10 48.1 17.5	-0.98 + 7.7	0.6/22.0	40298	1988 VT ₃	2000 04 23.4	14 05.45 -16 38.3 17.0	-1.00 + 7.0	1.6/24.6	40293
1998 VX ₃₇	2000 04 22.5	14 01.87 -08 18.4 19.3	-1.02 + 4.2	1.5/21.4	35725	1998 YV ₉	2000 04 23.4	14 05.51 -13 23.9 19.0	-0.86 + 4.9	0.2/23.7	35729
(11331)	2000 04 22.5	14 02.09 -09 59.2 17.9	-0.93 + 5.5	1.0/21.9	35573	1994 VB ₃	2000 04 23.4	14 05.57 -10 10.0 17.6	-0.97 + 6.6	0.9/22.7	40307
1997 UV ₈	2000 04 22.5	14 02.23 -11 25.6 17.9	-0.76 + 7.3	0.3/22.3	40320	(10071)	2000 04 23.4	14 05.61 -24 02.9 16.9	-0.95 + 7.2	5.0/27.0	33875
1998 XN ₄₆	2000 04 22.6	14 02.69 -10 21.9 17.4	-1.12 + 3.2	0.8/22.2	40054	1996 GG ₅	2000 04 23.5	14 05.69 -08 38.2 18.5	-0.95 + 4.0	1.3/22.4	40312
1998 YV	2000 04 22.7	14 02.62 -12 57.5 17.2	-0.78 + 4.4	0.2/22.9	40058	(10097)	2000 04 23.5	14 05.75 -15 31.0 17.6	-1.11 + 2.7	1.1/24.2	33881
1998 UF ₈	2000 04 22.7	14 02.75 -07 37.8 15.5	-1.08 + 0.7	2.3/21.6	40344	2000 GN ₉₁	2000 04 23.5	14 05.85 +03 51.9 17.5	-0.94 + 1.0	5.3/19.2	40267
1989 VK	2000 04 22.7	14 02.76 -16 13.7 19.6	-0.86 + 4.8	1.0/23.8	34005	1998 XP ₉₅	2000 04 23.5	14 05.86 +05 00.1 17.1	-0.77 + 4.7	5.5/18.2	40058
1992 SS ₂₄	2000 04 22.7	14 02.79 -20 11.2 17.9	-0.83 + 4.6	2.3/25.0	34009	1998 UB ₄₀	2000 04 23.5	14 05.93 -16 14.1 17.4	-1.08 + 3.0	1.4/24.4	40031
1988 SL ₂	2000 04 22.7	14 02.95 -09 04.4 19.2	-0.63 + 3.7	0.8/21.7	35680	1997 UC	2000 04 23.5	14 05.97 -01 34.1 18.0	-0.84 +10.8	4.1/19.7	39982
1993 OF ₃	2000 04 22.7	14 02.96 -14 37.1 18.0	-0.96 + 4.7	0.9/23.4	40303	1996 BS ₂	2000 04 23.5	14 06.01 +00 27.6 17.0	-1.00 + 5.8	5.0/19.7	40311
1991 RH ₂	2000 04 22.7	14 03.05 -23 14.1 18.0	-0.88 + 2.0	3.1/25.7	35683	3520 P-L	2000 04 23.6	14 06.18 -19 34.3 18.1	-0.77 + 5.7	1.9/25.7	40530
2407 T-3	2000 04 22.8	14 03.12 -13 47.7 19.0	-0.82 + 4.0	0.4/23.2	40534	1991 VX ₂	2000 04 23.6	14 06.20 -19 16.9 17.7	-0.76 + 3.8	1.7/25.5	40298
(14786)	2000 04 22.8	14 03.13 -06 28.2 16.8	-1.07 + 1.1	2.7/21.4	39929	9525 P-L	2000 04 23.6	14 06.24 -10 17.6 18.2	-1.03 + 4.1	0.9/23.0	40532
1995 BJ ₅	2000 04 22.8	14 03.22 -07 30.8 18.9	-0.90 + 4.8	1.7/21.4	35692	1997 TG ₂₆	2000 04 23.6	14 06.33 -17 19.5 18.1	-0.92 + 4.6	1.5/24.9	34017
1995 VD ₁₉	2000 04 22.8	14 03.25 -21 38.8 16.5	-0.91 + 6.5	4.3/25.6	40309	(14578)	2000 04 23.6	14 06.35 -21 18.1 16.5	-0.87 + 9.0	3.0/26.5	39869
1997 VC ₅	2000 04 22.8	14 03.28 -03 32.7 17.8	-0.82 + 2.0	2.7/20.4	40321	1994 UZ	2000 04 23.7	14 06.42 -15 17.0 18.7	-0.97 + 4.7	0.8/24.4	34011
1987 SR ₁₇	2000 04 22.8	14 03.30 -13 02.7 17.9	-0.99 + 6.9	0.2/23.0	40292	1998 VZ ₃₀	2000 04 23.7	14 06.44 +03 59.9 15.8	-1.02 - 1.0	6.8/20.0	40346
1999 BY ₈	2000 04 22.8	14 03.31 -08 26.9 18.2	-0.75 + 3.9	1.1/21.7	35731	1986 VA	2000 04 23.7	14 06.54 -24 22.0 17.0	-0.81 + 5.0	3.5/27.2	34283
1997 MQ ₁	2000 04 22.8	14 03.34 -11 13.1 16.5	-0.88 + 9.1	0.6/22.5	40318	2000 FJ ₅	2000 04 23.7	14 06.67 +06 06.2 16.6	-0.85 + 4.5	7.3/18.4	40219
1979 MG ₇	2000 04 22.8	14 03.40 -10 00.3 18.7	-0.85 + 5.6	0.9/22.1	30779	1979 MP ₄	2000 04 23.7	14 06.75 -12 52.8 18.6	-0.85 + 6.1	0.0/23.8	40289
1995 BP ₁	2000 04 22.8	14 03.40 +05 29.5 18.7	-0.87 + 2.8	5.1/17.9	40308	1997 WB ₃₇	2000 04 23.8	14 06.79 +03 10.0 15.8	-0.79 + 1.7	5.2/19.4	40321
1996 EV	2000 04 22.9	14 03.35 +03 10.1 17.8	-0.89 + 7.6	5.6/18.0	40312	1997 SP ₂₅	2000 04 23.8	14 06.97 -07 54.3 18.8	-0.83 + 5.7	1.7/22.4	33955
1996 DX	2000 04 22.9	14 03.45 -07 17.4 17.2	-0.98 + 4.6	2.1/21.5	40311	1990 RN ₁₇	2000 04 23.9	14 07.16 -22 59.9 16.8	-0.79 + 3.9	2.9/26.8	34576
1981 EC ₆	2000 04 22.9	14 03.54 -28 36.3 18.2	-1.09 + 3.8	6.3/27.0	30779	2000 GS ₈₅	2000 04 23.9	14 07.17 +10 45.9 17.0	-0.73 + 4.1	7.0/16.3	40263
1996 DL	2000 04 22.9	14 03.54 -05 04.7 17.9	-0.92 + 6.0	3.0/20.8	40311	1981 ED ₄₃	2000 04 23.9	14 07.35 -18 24.2 17.1	-0.97 + 1.8	2.0/25.3	40291
1998 WO ₆	2000 04 22.9	14 03.57 +09 29.2 18.8	-0.96 + 0.6	6.8/17.5	40347	2582 P-L	2000 04 24.0	14 07.51 -13 14.6 19.1	-0.98 + 4.0	0.1/24.1	33588
1998 VN ₆	2000 04 22.9	14 03.59 -13 46.3 19.4	-1.01 + 1.9	0.4/23.3	40034	2507 P-L	2000 04 24.0	14 07.58 -18 32.8 18.9	-1.09 + 3.3	2.2/25.4	33588
4208 T-3	2000 04 22.9	14 03.60 -08 19.4 18.5	-0.93 + 3.4	1.3/21.8	36125	1987 RO ₅	2000 04 24.0	14 07.74 -05 36.8 18.5	-0.56 + 3.4	1.4/21.8	35679
1996 WV ₁	2000 04 22.9	14 03.63 -12 55.7 18.3	-0.59 + 4.3	0.1/23.1	40313	2000 GT ₈₅	2000 04 24.0	14 07.76 +10 58.5 16.7	-0.73 + 4.7	7.8/16.0	40263
1997 YB	2000 04 23.0	14 03.85 -10 29.9 19.5	-0.74 + 4.0	0.5/22.4	34884	1998 UJ ₁₉	2000 04 24.0	14 07.91 -17 49.7 16.7	-1.85 -12.0	2.7/24.4	40028
1993 DF ₂	2000 04 23.0	14 03.94 -04 19.3 16.4	-0.92 + 6.6	3.6/20.6	40301	2025 T-3	2000 04 24.1	14 07.89 -14 48.6 17.9	-0.97 + 6.6	0.7/24.6	33736
1998 VX ₃	2000 04 23.0	14 03.96 -05 28.0 20.0	-0.97 + 3.5	2.4/21.2	34595	(9982)	2000 04 24.1	14 08.00 +09 12.1 18.8	-0.82 + 4.4	6.8/17.5	33667
1997 WJ ₇	2000 04 23.0	14 04.05 -15 04.1 18.4	-0.86 + 4.8	0.8/23.8	34018	1998 XS ₅	2000 04 24.1	14 08.08 -11 13.2 18.7	-0.94 + 5.3	0.6/23.7	40050
(14497)	2000 04 23.0	14 04.11 -26 29.9 16.2	-1.08 + 0.5	5.0/26.3	39846	1998 WM ₆	2000 04 24.1	14 08.27 -08 30.4 17.8	-1.03 + 4.7	2.0/23.0	40347
(10213)	2000 04 23.1	14 04.28 -24 20.7 18.5	-1.02 + 4.5	3.9/26.3	33909	2000 GM ₉₁	2000 04 24.1	14 08.30 +03 58.8 17.4	-0.77 + 3.0	5.2/19.3	40266

1999 CV ₁₇	2000 04 24.2	14 08.31	-13 51.7	17.9	-0.77	+	3.8	0.3/24.5	40070
1982 SW ₃	2000 04 24.2	14 08.38	-10 57.9	17.3	-1.01	+	7.5	0.7/23.6	40291
1997 QU	2000 04 24.2	14 08.44	-10 58.1	19.6	-0.86	+	5.5	0.6/23.7	40319
(9901)	2000 04 24.2	14 08.48	-19 51.2	17.7	-0.98	+	6.2	2.5/26.2	40288
1997 RD ₁₀	2000 04 24.2	14 08.69	-07 04.3	18.9	-0.86	+	5.4	1.8/22.6	30905
(10409)	2000 04 24.3	14 08.62	-09 53.6	18.3	-0.74	+	3.6	0.8/23.4	34162
1998 VV ₂₉	2000 04 24.3	14 08.69	-22 11.0	17.8	-0.98	+	6.5	3.6/27.0	35724
2000 FL ₈	2000 04 24.3	14 08.73	-10 43.1	17.5	-0.98	+	3.2	0.8/23.7	40221
(14304)	2000 04 24.3	14 08.83	-18 28.4	16.6	-1.16	-	1.5	2.1/25.5	39137
1993 FV ₁₈	2000 04 24.3	14 08.93	-07 25.5	16.3	-1.02	+	3.0	2.6/22.9	39947
1984 SN ₄	2000 04 24.4	14 09.23	-15 05.2	18.4	-0.92	+	4.4	0.7/25.0	40291
1997 WQ ₃₁	2000 04 24.4	14 09.34	-09 34.3	18.1	-0.80	+	3.7	1.0/23.5	40321
1997 AV ₁₅	2000 04 24.4	14 09.39	+37 36.1	17.8	-1.04	+	0.4	23.7/07.0	39974
5282 T-3	2000 04 24.4	14 09.39	+00 49.7	17.7	-1.00	+	0.4	4.9/21.3	40535
1998 VH ₆	2000 04 24.4	14 09.41	-16 12.4	17.7	-1.13	+	1.3	1.3/25.2	40034
1998 UC	2000 04 24.5	14 09.44	-33 11.8	18.1	-1.04	+14.2		7.3/02.1	33049
(14424)	2000 04 24.5	14 09.48	-23 14.3	17.2	-0.97	-	0.2	2.9/27.0	39825
(14490)	2000 04 24.5	14 09.53	-11 07.7	17.2	-0.96	+	4.0	0.7/24.0	39844
1990 RW ₄	2000 04 24.5	14 09.78	-19 48.0	16.7	-0.80	+	3.9	2.1/26.5	40295
2000 EV ₃₅	2000 04 24.5	14 09.78	+08 37.0	17.2	-0.86	+	5.1	7.4/17.7	40137
(11193)	2000 04 24.5	14 09.81	-09 27.0	17.1	-0.75	+	3.8	1.0/23.6	35261
1997 US	2000 04 24.6	14 10.03	-12 27.9	17.1	-0.81	+	8.2	0.2/24.5	39982
1993 FU ₃₇	2000 04 24.6	14 10.15	-14 44.5	17.2	-1.06	+	2.4	0.7/25.1	39948
1997 WD ₃₀	2000 04 24.7	14 10.12	-08 31.0	17.5	-0.84	+	1.8	1.3/23.5	40321
(9937)	2000 04 24.7	14 10.30	-15 03.3	18.7	-0.98	+	4.9	0.6/25.3	33656
1998 YF ₈	2000 04 24.7	14 10.36	-15 15.3	18.0	-0.75	+	5.0	0.6/25.4	35729
1998 UE ₁₉	2000 04 24.7	14 10.39	-08 12.3	18.9	-0.99	+	6.1	1.8/23.4	33573
3497 T-3	2000 04 24.7	14 10.39	-10 07.9	18.6	-0.88	+	5.4	1.1/23.9	40284
2000 GJ ₉₁	2000 04 24.7	14 10.47	+01 24.9	17.2	-0.90	+	4.4	5.5/20.8	40266
2648 P-L	2000 04 24.7	14 10.49	-12 49.3	18.7	-0.97	+	4.4	0.1/24.7	40530
1998 VH ₃₂	2000 04 24.7	14 10.51	-03 36.5	20.5	-0.96	+	4.4	3.1/22.2	34028
1997 WZ ₇	2000 04 24.8	14 10.53	-02 14.5	17.4	-0.85	+	1.9	3.4/21.9	40321
(9752)	2000 04 24.8	14 10.63	-23 09.2	17.2	-1.07	+	2.9	3.9/27.4	33200
1999 CD ₁₈	2000 04 24.8	14 10.73	-14 01.9	16.8	-0.85	+	1.2	0.3/25.1	40070
1994 PC ₁₀	2000 04 24.8	14 10.96	-12 57.7	18.2	-1.04	+	4.8	0.1/24.8	40305
(13638)	2000 04 24.9	14 10.92	+00 59.0	16.9	-0.90	+	5.8	6.1/20.7	38353
1997 SP ₃	2000 04 24.9	14 10.93	-21 15.1	18.6	-1.14	+	1.6	3.4/26.7	31011
6319 P-L	2000 04 24.9	14 10.98	-16 22.5	17.6	-1.06	+	6.1	1.3/25.8	40531
2000 GZ ₁	2000 04 24.9	14 11.12	-18 13.1	16.0	-1.10	-	3.1	2.3/25.9	40256
1999 AE ₇	2000 04 24.9	14 11.18	+01 04.9	16.6	-0.86	+	6.7	5.2/20.5	40065
1998 XE ₄₅	2000 04 24.9	14 11.20	+02 17.0	18.0	-0.93	+	1.2	5.0/21.2	40054
1988 RN ₂	2000 04 24.9	14 11.26	-20 11.9	17.7	-0.86	+	5.5	2.2/27.0	40293
1995 DQ ₂	2000 04 24.9	14 11.29	-52 30.0	19.9	-1.82	-	3.9	13.0/04.7	30292
1996 EZ ₁	2000 04 24.9	14 11.29	-06 33.5	17.6	-0.91	+	7.0	2.4/23.0	39965
(11191)	2000 04 25.0	14 11.25	-12 58.8	15.9	-0.84	+	3.5	0.1/24.9	35260
1998 YS ₇	2000 04 25.0	14 11.26	-48 32.6	18.7	-1.44	+	1.1	11.1/04.7	35079
2000 GS ₇	2000 04 25.0	14 11.31	-01 20.9	17.2	-1.00	+	0.3	4.0/22.4	40258
2000 GQ ₇₀	2000 04 25.0	14 11.36	-14 23.5	17.2	-0.94	+	3.0	0.4/25.3	40262
1997 RZ ₇	2000 04 25.0	14 11.40	-33 35.8	17.5	-1.08	+	1.8	6.4/30.2	35072
1999 CM ₃₁	2000 04 25.0	14 11.47	-07 10.6	20.2	-0.83	+	3.6	1.7/23.4	34542
1999 BQ ₁₂	2000 04 25.0	14 11.55	+11 44.5	16.6	-0.93	+	2.6	8.3/17.8	40068

1996 HA ₂₃	2000 04 25.0	14 11.55	-12 39.9	16.9	-0.79	+	8.5	0.3/24.9	39969
1998 TL ₃₄	2000 04 25.1	14 11.71	-08 39.4	18.7	-0.96	+	6.9	1.8/23.8	33307
1999 CK ₂₈	2000 04 25.1	14 11.78	+19 43.3	17.6	-0.73	+	2.9	8.6/14.2	40071
1998 XF ₆₃	2000 04 25.1	14 12.10	-06 48.1	18.6	-1.05	+	3.0	2.3/23.6	35728
1997 UC ₁	2000 04 25.2	14 12.32	-09 44.1	19.2	-0.78	+	5.7	1.0/24.2	40320
2184 P-L	2000 04 25.2	14 12.34	-09 46.7	16.0	-0.73	+11.9		1.5/24.0	40272
1993 PS ₃	2000 04 25.2	14 12.34	-14 26.5	18.7	-0.88	+	5.6	0.3/25.6	33936
1993 FY ₇₅	2000 04 25.2	14 12.42	-12 30.2	17.7	-0.95	+	8.3	0.4/25.0	39949
1998 XC	2000 04 25.3	14 12.38	-17 43.0	16.6	-1.02	+	6.1	1.7/26.5	40348
(10085)	2000 04 25.3	14 12.72	-31 02.2	16.9	-0.96	+	0.4	5.6/29.8	38016
(13059)	2000 04 25.4	14 12.86	-01 32.3	16.6	-0.87	+	3.8	4.6/22.2	37502
1994 WL	2000 04 25.4	14 12.88	-08 04.8	16.0	-1.05	+	2.3	2.1/24.1	39959
1998 SX ₁₂₇	2000 04 25.5	14 13.13	-08 10.1	17.9	-1.03	+	4.7	2.1/24.1	40013
2000 EZ ₁₇₁	2000 04 25.5	14 13.16	+07 17.6	16.0	-0.80	+	3.7	7.3/19.1	40216
1997 UR ₉	2000 04 25.5	14 13.19	-15 38.1	18.1	-0.87	+	4.2	0.7/26.1	40320
1999 CD ₂₈	2000 04 25.5	14 13.20	-07 28.5	16.3	-0.84	+	1.8	2.0/24.0	40352
1999 CX ₅₉	2000 04 25.5	14 13.45	-01 16.9	18.1	-0.70	+	6.4	3.3/21.8	40352
(13231)	2000 04 25.5	14 13.48	-12 57.4	18.6	-0.73	+	3.8	0.1/25.4	37548
1981 EG ₃₄	2000 04 25.5	14 13.52	-08 56.1	18.4	-0.89	+	7.4	1.6/24.2	40290
1995 DH	2000 04 25.6	14 13.66	+20 44.5	18.9	-0.80	+	5.9	9.2/13.8	40308
(10289)	2000 04 25.6	14 13.68	-11 55.8	17.2	-0.79	+	3.6	0.5/25.2	34133
2000 FS ₁₀	2000 04 25.6	14 13.73	-16 49.7	17.8	-0.86	+	3.3	1.2/26.6	40222
(14359)	2000 04 25.6	14 13.80	-16 08.6	16.9	-0.95	+	4.2	1.2/26.4	39807
1997 TY ₁₇	2000 04 25.6	14 13.81	-10 43.9	17.3	-0.82	+	3.6	0.8/24.9	40320
1999 AU ₂₁	2000 04 25.7	14 14.00	-10 50.7	17.8	-0.77	+	4.3	0.8/25.0	40351
1998 SD ₆₃	2000 04 25.7	14 14.05	-15 24.2	18.1	-0.94	+	7.7	0.7/26.3	35718
1998 WM ₁₆	2000 04 25.7	14 14.14	-12 23.4	18.5	-0.99	+	6.0	0.4/25.5	40348
1994 TA ₃	2000 04 25.7	14 14.15	-17 46.4	17.7	-1.08	+	3.5	1.6/26.8	40306
1998 SM ₁₃₃	2000 04 25.7	14 14.36	-12 38.6	18.3	-0.95	+	6.8	0.3/25.6	40014
1997 NO ₂	2000 04 25.8	14 14.40	-09 55.6	18.2	-0.78	+11.2		1.6/24.6	39977
2000 GP ₉₁	2000 04 25.8	14 14.66	+02 58.7	17.0	-1.06	-	1.4	8.3/22.2	40267
1991 XE	2000 04 25.8	14 14.75	+29 31.9	16.3	-1.60	-	6.1	19.8/16.5	39150
1999 CT ₃₀	2000 04 25.9	14 14.72	-25 40.0	16.8	-0.86	+	2.4	3.7/29.2	40352
1996 AB ₄	2000 04 25.9	14 14.81	-13 53.5	17.1	-0.96	+	7.1	0.1/26.0	40311
1998 XB ₅₃	2000 04 25.9	14 14.98	-32 20.7	17.4	-0.97	+	5.5	6.1/01.7	34598
2000 GK ₇₃	2000 04 25.9	14 14.98	-16 55.7	15.9	-1.08	+	1.1	1.6/26.7	40262
9094 P-L	2000 04 25.9	14 15.10	-08 43.7	19.4	-0.91	+	7.5	1.6/24.6	34060
1999 AH ₂	2000 04 26.0	14 15.02	-15 16.1	17.5	-0.93	+	3.4	0.6/26.5	40063
(9812)	2000 04 26.0	14 15.43	-08 39.5	17.1	-0.95	+	7.6	1.9/24.6	33214
2000 GN ₉₄	2000 04 26.0	14 15.46	+09 49.3	16.4	-0.73	+	5.2	6.8/18.4	40269
1994 AP ₇	2000 04 26.0	14 15.47	-07 59.4	18.5	-0.82	+	4.0	1.7/24.5	34011
(14425)	2000 04 26.0	14 15.51	-09 52.3	15.5	-1.16	+	2.5	1.7/25.2	39826
2000 GS ₁₃₅	2000 04 26.1	14 15.51	-00 52.4	17.0	-0.87	+	5.5	5.1/22.4	40271
(11740)	2000 04 26.1	14 15.55	-13 13.2	17.7	-0.81	+	4.6	0.1/26.0	35895
1997 TF ₁₇	2000 04 26.1	14 15.74	-03 07.1	18.3	-0.96	+	6.2	3.9/23.1	31146
1999 AD ₃₃	2000 04 26.1	14 15.75	+04 06.2	17.3	-0.78	+	3.6	5.7/21.0	40067
1999 CH ₅	2000 04 26.2	14 16.12	-25 19.0	17.9	-0.91	+	3.4	3.4/29.5	38544
6527 P-L	2000 04 26.2	14 16.20	-10 38.6	19.5	-0.94	+	4.9	1.0/25.5	33736
1999 AQ ₃	2000 04 26.2	14 16.21	-10 34.4	17.8	-0.83	+	3.4	1.0/25.5	40351
2000 CX ₉₄	2000 04 26.2	14 16.24	+14 07.1	17.5	-0.87	+	3.2	8.6/18.3	40458
1999 AJ	2000 04 26.3	14 16.19	-10 23.6	18.5	-0.93	+	5.2	1.1/25.4	40351

6599 P-L	2000 04 26.3	14 16.27 -10 50.0 17.3	-0.90 + 4.4	1.0/25.6	40531	2159 T-2	2000 04 27.4	14 20.75 -13 08.4 18.0	-0.92 + 4.3	0.3/27.3	40533
2000 GV ₇₈	2000 04 26.3	14 16.31 -11 09.1 16.1	-0.74 + 4.6	0.9/25.6	40262	1999 CE ₂₈	2000 04 27.4	14 20.76 +05 11.3 15.7	-0.92 + 2.6	6.6/22.2	40071
1996 CE ₁	2000 04 26.3	14 16.49 -20 49.0 17.9	-1.08 + 3.5	2.7/28.2	35694	1998 YO ₅	2000 04 27.5	14 20.90 -38 05.9 16.9	-1.02 + 4.3	9.0/04.6	35729
1998 XN ₇₄	2000 04 26.3	14 16.53 -20 26.9 17.7	-0.82 + 4.5	2.3/28.3	40350	(11310)	2000 04 27.5	14 20.98 +06 50.6 17.3	-0.83 + 3.8	6.4/21.6	38750
1997 RV ₈	2000 04 26.4	14 16.92 -13 40.3 17.0	-1.01 + 2.9	0.0/26.5	40319	(13581)	2000 04 27.5	14 21.09 +07 12.0 16.7	-0.81 + 7.1	7.6/20.7	38338
1998 VP ₅	2000 04 26.4	14 16.95 -18 38.6 17.5	-1.06 + 2.2	2.0/27.7	40033	1981 EO ₂₂	2000 04 27.5	14 21.13 -15 34.1 17.9	-0.91 + 4.8	0.7/28.0	40290
1998 YL ₁₃	2000 04 26.5	14 17.09 +05 19.9 18.0	-0.90 + 3.2	6.1/21.3	40061	1993 TH ₂	2000 04 27.6	14 21.20 -10 30.0 17.7	-0.89 + 3.9	1.1/26.7	33938
1995 FZ ₃	2000 04 26.5	14 17.30 -04 52.7 17.0	-0.82 + 5.4	3.1/24.0	40308	1997 SN ₁₂	2000 04 27.6	14 21.22 -22 49.5 19.0	-0.87 + 2.5	2.6/29.9	35701
(9710)	2000 04 26.6	14 17.41 -07 40.9 18.5	-0.97 + 3.2	2.0/25.1	33190	1999 AU ₃₂	2000 04 27.6	14 21.53 -16 02.2 17.8	-0.85 + 3.8	0.7/28.2	40351
4125 T-2	2000 04 26.6	14 17.46 -01 27.6 19.4	-0.69 + 5.7	3.4/22.8	29314	1968 OK	2000 04 27.7	14 21.47 -35 07.0 18.4	-1.03 + 5.4	6.6/03.7	34280
1995 BF	2000 04 26.6	14 17.56 -06 46.9 17.0	-0.84 + 4.7	2.8/24.7	40307	(10073)	2000 04 27.7	14 21.54 -16 34.5 17.2	-0.94 + 7.3	0.9/28.4	33875
1999 AZ ₆	2000 04 26.6	14 17.64 -26 43.8 17.1	-0.85 + 4.4	4.3/30.4	35730	1999 CP ₆₁	2000 04 27.7	14 21.60 -02 22.9 17.5	-0.68 + 4.8	3.2/24.2	40352
1995 DG ₁	2000 04 26.6	14 17.67 -13 07.3 18.3	-0.83 + 5.8	0.2/26.5	40308	1998 WQ ₆	2000 04 27.7	14 21.65 -16 33.8 18.5	-0.99 + 4.4	0.8/28.4	40347
1996 JK ₁	2000 04 26.6	14 17.71 -16 51.9 16.8	-0.84 + 9.7	1.1/27.7	40313	1998 UL ₃₂	2000 04 27.7	14 21.72 -09 25.1 17.5	-1.06 + 1.9	1.9/26.7	40030
1998 SM ₁₀₆	2000 04 26.7	14 17.75 -16 45.2 16.9	-1.13 + 2.5	1.3/27.4	40010	1990 EQ ₂	2000 04 27.7	14 21.83 -18 07.4 17.5	-1.03 + 6.7	1.7/28.9	40294
1980 UN ₁	2000 04 26.7	14 17.93 -17 13.0 18.3	-0.92 + 4.8	1.1/27.7	34002	1998 VW ₁₀	2000 04 27.7	14 21.90 -14 50.4 19.3	-1.03 + 4.8	0.3/28.0	34537
1981 DJ ₂	2000 04 26.8	14 18.05 -12 41.1 17.7	-0.79 + 8.0	0.3/26.4	40290	(10164)	2000 04 27.8	14 21.90 +08 15.8 17.4	-0.84 + 4.4	6.9/21.2	33896
3353 T-2	2000 04 26.8	14 18.06 -15 18.9 17.5	-0.83 + 2.6	0.5/27.0	40533	1993 FP ₁₄	2000 04 27.8	14 21.93 -13 59.7 16.0	-1.14 + 0.3	0.1/27.8	40301
7587 P-L	2000 04 26.8	14 18.27 -12 21.6 18.4	-0.92 + 3.5	0.5/26.5	40276	(14455)	2000 04 27.8	14 22.02 -06 35.3 16.4	-1.02 + 4.0	3.3/25.9	39835
1997 UN ₉	2000 04 26.8	14 18.28 -16 02.2 18.0	-0.92 + 4.3	0.8/27.4	40320	1996 FK ₄	2000 04 27.8	14 22.05 -15 31.4 17.8	-0.95 + 3.9	0.6/28.2	39966
1997 VY ₂	2000 04 26.8	14 18.31 -10 07.6 17.5	-0.89 + 4.4	1.2/25.9	39984	1998 XY ₄₁	2000 04 27.8	14 22.08 -14 38.0 17.5	-0.99 + 4.1	0.2/28.0	40349
1998 XA ₄₂	2000 04 26.8	14 18.43 -05 45.9 16.8	-0.94 + 3.4	3.1/24.8	40349	2000 GL ₂	2000 04 27.9	14 22.33 -16 52.4 17.5	-0.76 + 6.9	0.9/28.8	40256
1998 YG ₁₇	2000 04 26.9	14 18.48 -14 48.5 18.2	-0.82 + 4.3	0.3/27.2	40061	2000 GB ₄	2000 04 28.0	14 22.81 +06 14.3 16.9	-0.82 + 5.1	7.4/22.0	40257
1997 TL ₆	2000 04 26.9	14 18.56 -09 21.5 17.7	-0.98 + 3.7	1.9/25.8	40320	2000 EO ₉₇	2000 04 28.0	14 22.90 -21 18.0 16.3	-0.98 - 3.5	4.0/29.4	40181
1993 FV ₁₄	2000 04 26.9	14 18.70 -01 34.5 17.0	-0.99 + 6.1	4.9/23.4	39946	(10296)	2000 04 28.1	14 22.99 -16 37.6 18.1	-0.67 + 2.8	0.6/28.8	34135
1998 TX ₃₀	2000 04 26.9	14 18.70 -19 02.3 17.3	-1.13 + 2.8	2.1/28.2	40023	6115 P-L	2000 04 28.1	14 23.06 -22 42.2 18.8	-1.09 + 3.7	3.4/30.3	35049
1996 EJ ₁	2000 04 26.9	14 18.71 -14 23.1 16.9	-1.00 + 3.7	10.0/17.0	40312	(10194)	2000 04 28.1	14 23.10 -28 09.9 17.9	-0.92 + 2.1	4.6/01.7	33904
1997 YH ₁	2000 04 26.9	14 18.81 -11 35.5 17.3	-0.85 + 1.4	0.7/26.4	40321	1999 AH ₁	2000 04 28.1	14 23.27 -08 03.1 20.3	-0.91 + 4.8	2.1/26.5	35730
1997 UE ₂₁	2000 04 26.9	14 18.83 -23 28.2 18.7	-0.91 + 1.2	2.9/29.4	34298	1992 WS ₁	2000 04 28.1	14 23.39 -08 07.4 17.7	-0.80 + 2.7	1.8/26.6	40300
(10337)	2000 04 27.0	14 18.87 -22 22.5 17.6	-0.84 + 3.3	2.4/29.3	34145	1998 XQ ₄	2000 04 28.2	14 23.36 -25 19.9 16.6	-1.08 + 4.8	4.6/01.1	34031
1998 UV ₁₉	2000 04 27.0	14 18.90 -12 56.1 16.9	-1.11 + 1.3	0.4/26.8	40028	1993 KZ ₁	2000 04 28.2	14 23.49 +30 08.8 15.9	-1.23 - 5.4	19.8/14.4	40303
1998 XD ₉₆	2000 04 27.0	14 19.13 -09 03.3 18.5	-0.80 + 4.0	1.5/25.7	35728	1999 BS ₁₂	2000 04 28.2	14 23.52 -14 47.0 18.0	-0.94 + 6.8	0.2/28.4	40351
1998 VM ₂₅	2000 04 27.0	14 19.25 -13 57.3 17.8	-0.98 + 6.7	0.0/27.1	40038	1980 UR ₁	2000 04 28.2	14 23.55 -17 38.2 18.6	-0.97 + 7.4	1.2/29.2	35677
1998 XO ₅₂	2000 04 27.1	14 19.27 -03 23.4 18.7	-1.00 + 3.0	3.7/24.5	33717	1998 XH ₅₃	2000 04 28.2	14 23.66 -16 15.7 18.2	-0.92 + 4.1	0.7/28.8	33718
1992 DW ₇	2000 04 27.1	14 19.42 -11 12.3 17.9	-0.97 + 3.9	1.0/26.5	40299	1999 XQ ₃₅	2000 04 28.2	14 23.83 +33 56.2 16.8	-1.42 -20.3	24.7/04.7	40409
1995 BO ₃	2000 04 27.1	14 19.42 -08 35.6 18.9	-0.86 + 5.0	1.7/25.7	35692	2268 T-2	2000 04 28.3	14 23.76 -10 59.4 20.1	-0.73 + 4.8	0.9/27.4	28608
1998 YX ₅	2000 04 27.2	14 19.58 -22 52.8 19.0	-0.99 + 4.4	3.1/29.6	34035	1993 XJ ₁	2000 04 28.3	14 23.81 -06 31.0 17.4	-0.86 + 2.9	2.5/26.3	40304
(13691)	2000 04 27.2	14 19.62 +06 34.7 16.9	-0.81 + 6.4	8.0/20.6	38369	1999 CY ₄	2000 04 28.3	14 23.84 +02 07.7 17.1	-0.96 + 3.6	5.9/23.9	40069
(14001)	2000 04 27.2	14 19.62 -23 26.1 15.2	-0.70 +24.4	4.3/01.4	39051	1998 WL ₁	2000 04 28.3	14 23.89 -03 47.5 17.7	-0.96 + 3.3	3.9/25.7	40347
1998 XT ₄	2000 04 27.2	14 19.66 -05 13.8 17.5	-1.02 + 3.2	3.2/25.0	40048	1997 OH ₂	2000 04 28.3	14 23.95 -12 24.8 21.3	-0.92 + 5.2	0.6/27.8	30788
1991 UV ₁	2000 04 27.2	14 19.66 -15 02.2 18.2	-1.08 + 2.7	0.4/27.5	40298	1997 RF ₃	2000 04 28.3	14 23.98 -06 24.3 16.9	-0.80 + 8.6	3.9/25.8	39980
1997 VO ₁	2000 04 27.2	14 19.67 -09 51.2 17.3	-0.98 + 0.9	1.3/26.3	40321	1998 TR ₃	2000 04 28.3	14 24.01 -20 31.9 15.5	-1.80 -10.0	3.3/28.8	40019
1998 WL ₃	2000 04 27.2	14 19.89 -25 40.8 17.9	-0.89 + 5.5	4.1/30.7	33521	1999 CN ₃₂	2000 04 28.3	14 24.09 +00 50.5 17.8	-0.79 + 2.8	4.7/24.2	40071
(10196)	2000 04 27.3	14 20.13 -10 37.0 17.5	-0.76 + 3.8	1.0/26.4	40288	1982 UF ₇	2000 04 28.3	14 24.13 -14 16.8 17.0	-0.78 + 5.9	0.0/28.4	40291
1996 BK	2000 04 27.3	14 20.24 -32 33.4 18.2	-1.18 + 3.7	7.4/02.5	33075	(9962)	2000 04 28.4	14 24.13 -15 50.4 16.8	-0.97 + 4.8	0.7/28.8	33662
2000 GU ₉₁	2000 04 27.4	14 20.34 +04 07.1 17.1	-0.78 + 9.0	7.3/21.4	40267	(10441)	2000 04 28.4	14 24.42 -06 40.3 17.6	-0.83 + 7.6	2.3/26.1	34169
2203 T-2	2000 04 27.4	14 20.38 -08 23.3 20.7	-0.85 + 6.5	1.8/25.8	27564	1993 FQ ₂₃	2000 04 28.4	14 24.45 -12 52.0 17.9	-0.96 + 7.5	0.6/28.0	40302
(10397)	2000 04 27.4	14 20.59 -13 59.0 18.4	-0.76 + 3.6	0.0/27.5	34159	1981 WL ₂	2000 04 28.4	14 24.52 -08 07.4 17.0	-1.89 - 9.7	3.1/28.0	39934
1997 VY ₁	2000 04 27.4	14 20.67 -14 39.2 17.4	-0.76 + 4.6	0.2/27.7	40321	1998 WJ	2000 04 28.4	14 24.57 -15 00.0 19.0	-0.99 + 6.7	0.3/28.7	40346
2000 GU ₁	2000 04 27.4	14 20.69 -16 49.9 17.6	-0.75 + 5.2	0.8/28.3	40256	1994 PS ₁₆	2000 04 28.5	14 24.52 -05 46.8 20.0	-0.97 + 6.3	3.1/26.1	29945
1990 WZ ₁	2000 04 27.4	14 20.72 -05 46.1 17.2	-0.93 + 6.8	3.4/25.1	40296	1998 XP ₄₇	2000 04 28.5	14 24.54 -04 11.0 17.1	-0.94 + 0.9	3.7/26.2	40054

1996 AN ₂	2000 04 28.5	14 24.65	-03 04.6	17.3	-0.98	+	4.1	4.6/25.6	40311	1991 UQ ₁	2000 04 29.5	14 28.30	-14 49.1	17.2	-1.09	+	2.2	0.1/29.5	40298
1992 JP ₃	2000 04 28.5	14 24.82	-13 15.2	17.0	-1.02	-	0.7	0.5/28.3	40300	1997 TF ₂₆	2000 04 29.5	14 28.48	-21 05.0	17.8	-0.91	+	3.4	2.1/01.2	40320
1999 CJ ₂₇	2000 04 28.5	14 24.82	-11 25.5	18.6	-0.90	+	3.1	0.9/27.8	40352	1994 YS	2000 04 29.5	14 28.75	-05 18.7	17.7	-0.89	+	3.6	3.5/27.2	40307
(9820)	2000 04 28.5	14 24.87	-14 50.2	16.9	-0.94	+	4.7	0.2/28.7	40288	1998 XT ₄₇	2000 04 29.6	14 28.94	-14 47.6	17.6	-1.01	+	1.3	0.0/29.7	40349
(14650)	2000 04 28.6	14 24.96	-13 13.1	17.1	-1.04	+	3.9	0.4/28.3	39891	1979 SD	2000 04 29.6	14 29.05	-13 46.0	17.4	-0.91	+	3.0	0.3/29.4	39931
1998 RU ₄	2000 04 28.6	14 25.03	-39 46.9	19.0	-1.43		0.0	8.8/04.7	35713	1989 LH	2000 04 29.6	14 29.06	-16 54.7	15.6	-0.71	+	13.0	1.1/30.5	40294
1999 CL ₁₂	2000 04 28.6	14 25.18	+08 48.3	17.9	-0.71	+	4.8	6.4/21.3	40069	1997 QG	2000 04 29.7	14 29.21	-06 18.3	17.8	-0.88	+	5.0	2.9/27.4	40319
1998 WL ₁₅	2000 04 28.7	14 25.26	-04 28.8	18.5	-1.02	+	2.7	3.9/26.3	35726	1996 BA ₂	2000 04 29.7	14 29.36	-01 58.5	16.8	-0.99	+	3.2	5.6/26.5	40311
1998 XG ₄₉	2000 04 28.7	14 25.41	-07 41.4	17.9	-0.98	+	2.5	2.4/27.1	40349	1998 WN ₁₆	2000 04 29.7	14 29.44	-13 15.3	17.4	-0.97	+	5.3	0.5/29.4	40348
(9863)	2000 04 28.7	14 25.51	-21 15.6	15.7	-0.98	+	5.2	3.3/30.6	33460	1981 EH ₄₀	2000 04 29.8	14 29.49	-18 45.9	19.3	-0.90	+	2.4	1.6/30.8	26922
1997 TE ₁₁	2000 04 28.7	14 25.61	-05 43.5	19.9	-0.79	+	5.8	2.6/26.2	31013	1998 XQ ₈₃	2000 04 29.8	14 29.57	-06 02.9	16.6	-0.80	+	8.3	3.1/27.2	40350
1998 QM ₅₅	2000 04 28.8	14 25.80	-13 31.4	17.6	-1.05	+	5.4	0.4/28.6	40331	1997 TH ₁₉	2000 04 29.8	14 29.58	-18 41.2	17.1	-1.14	+	3.6	1.7/30.7	40320
1997 UY ₂	2000 04 28.9	14 26.04	-17 00.2	17.4	-0.84	+	4.0	0.8/29.6	40320	1998 YE ₂	2000 04 29.8	14 29.62	-28 09.2	17.8	-0.88	+	3.6	4.3/03.5	35729
1999 CH ₉₄	2000 04 28.9	14 26.08	-17 04.9	17.3	-0.90	+	1.3	0.9/29.5	40072	1990 QA ₁	2000 04 29.8	14 29.87	-16 45.3	16.5	-0.98	+	6.5	0.9/30.4	40295
1988 VS ₆	2000 04 28.9	14 26.08	-13 25.0	19.3	-0.59	+	3.5	0.2/28.6	40293	6313 P-L	2000 04 29.9	14 29.82	-18 37.9	19.3	-0.87	+	4.0	1.2/30.9	16036
1998 XU ₁₆	2000 04 28.9	14 26.16	-01 33.5	17.4	-0.80	+	1.6	4.1/25.7	40052	2022 P-L	2000 04 29.9	14 30.00	-21 12.7	17.2	-0.92	+	2.8	2.3/01.5	40530
1991 RB ₁₆	2000 04 28.9	14 26.26	-14 03.1	17.1	-1.12	+	3.7	0.2/28.8	39942	1996 KB	2000 04 29.9	14 30.17	-15 43.3	16.1	-0.89	+	5.8	0.4/30.2	40313
1997 PR ₃	2000 04 28.9	14 26.26	-11 19.2	16.9	-0.91	+	4.2	1.5/28.1	40318	4649 P-L	2000 04 29.9	14 30.27	-05 12.0	17.5	-0.74	+	6.2	2.9/27.1	40531
1988 VR ₇	2000 04 28.9	14 26.26	-09 02.5	18.5	-1.05	+	5.3	2.1/27.5	38433	1989 SX	2000 04 30.0	14 30.25	-17 01.6	18.7	-0.95	+	3.0	0.7/30.6	40294
1986 QT ₁	2000 04 28.9	14 26.31	-15 58.4	18.1	-0.97	+	4.0	0.5/29.3	40292	1998 VS ₂₈	2000 04 30.0	14 30.30	-17 34.8	17.4	-1.09	+	4.6	1.1/30.7	40346
1996 EW ₇	2000 04 28.9	14 26.38	-11 22.3	18.4	-0.95	+	5.4	1.4/28.1	39965	1998 YS ₉	2000 04 30.0	14 30.30	-10 04.2	17.7	-0.76	+	3.8	1.5/28.7	40350
1999 AM ₇	2000 04 29.0	14 26.41	+00 01.8	17.3	-0.74	+	4.9	4.6/24.7	40065	(11404)	2000 04 30.0	14 30.33	-15 40.0	18.5	-0.76	+	3.4	0.2/30.3	35591
1981 DQ ₁	2000 04 29.0	14 26.45	-27 01.5	18.6	-0.91	+	4.8	4.0/02.6	33739	1999 CU ₂₅	2000 04 30.0	14 30.46	-11 20.1	17.4	-0.83	+	3.4	1.1/29.1	40352
1997 XB ₂	2000 04 29.0	14 26.68	-24 43.7	17.6	-0.82	+	6.6	3.2/02.0	35703	(10942)	2000 04 30.0	14 30.47	-28 04.6	18.3	-1.03	+	2.6	4.2/03.4	34808
1993 NJ ₁	2000 04 29.0	14 26.80	-08 21.9	18.0	-0.96	+	5.2	2.6/27.4	40303	1997 SQ ₁₇	2000 04 30.0	14 30.48	-25 59.8	16.7	-1.22	-	1.9	4.8/02.0	31280
1997 SU ₁	2000 04 29.1	14 26.78	-12 20.2	19.6	-0.90	+	5.0	0.7/28.5	33753	1997 YH ₃	2000 04 30.0	14 30.51	-18 08.9	18.4	-0.93	+	4.2	1.1/30.9	34300
1998 UA ₂₁	2000 04 29.1	14 26.90	-08 24.4	18.8	-0.99	+	2.2	2.2/27.7	35722	1993 QA ₉	2000 04 30.0	14 30.55	-08 43.9	16.9	-0.91	+	5.1	2.7/28.4	40303
1998 XC ₅₀	2000 04 29.2	14 27.29	-07 49.9	17.1	-0.94	+	0.8	2.5/27.7	40349	3106 P-L	2000 04 30.0	14 30.56	-19 41.1	18.3	-0.79	+	6.1	1.5/01.5	33996
2000 GO ₈₁	2000 04 29.2	14 27.29	-10 48.6	17.3	-0.88	+	4.4	1.5/28.2	40263	(10242)	2000 04 30.1	14 30.60	-12 27.3	17.9	-0.95	+	5.4	1.0/29.5	33916
1997 VW ₆	2000 04 29.2	14 27.29	-15 30.9	18.8	-0.81	+	4.0	0.3/29.5	34299	(9724)	2000 04 30.1	14 30.87	-14 44.6	18.1	-0.96	+	5.3	0.0/30.1	33193
1998 YT ₅	2000 04 29.2	14 27.34	-14 11.0	18.8	-0.81	+	3.4	0.1/29.1	40350	(14553)	2000 04 30.1	14 30.90	-10 22.5	17.1	-0.82	+	3.4	1.4/29.0	39862
(10556)	2000 04 29.2	14 27.36	+03 01.6	17.7	-0.90	+	7.6	6.1/23.7	34450	2235 T-2	2000 04 30.1	14 31.00	-12 43.6	19.9	-0.74	+	3.9	0.6/29.6	34060
(9920)	2000 04 29.2	14 27.38	-18 24.8	17.2	-0.86	+	4.9	1.3/30.3	33653	1991 RG ₃	2000 04 30.1	14 31.03	-41 00.3	18.3	-1.14	-	1.1	8.9/06.2	39942
1996 TD ₄₀	2000 04 29.2	14 27.42	-11 00.9	17.7	-0.78	+	3.8	1.0/28.3	40313	1998 XU ₄₂	2000 04 30.1	14 31.05	-24 12.8	18.6	-1.07	+	3.8	3.2/02.5	33715
1998 QT ₆₀	2000 04 29.2	14 27.44	-46 16.4	18.4	-1.23	+	4.4	9.0/09.0	35078	2204 T-2	2000 04 30.2	14 31.42	-14 56.9	18.6	-0.84	+	3.7	0.0/30.3	36123
(10610)	2000 04 29.2	14 27.48	-09 50.7	18.5	-0.60	+	2.6	1.0/27.9	34465	1999 AC ₁₆	2000 04 30.3	14 31.47	-01 24.0	18.7	-0.83	+	3.3	4.2/26.8	35730
1997 WC ₂	2000 04 29.3	14 27.58	-14 26.8	18.4	-0.80	+	2.9	0.0/29.3	40321	1999 AL ₂₄	2000 04 30.3	14 31.48	+23 57.4	18.2	-0.85	+	4.6	11.8/17.6	40351
1999 BN ₁₄	2000 04 29.3	14 27.63	-13 51.8	17.0	-0.81	+	3.3	0.2/29.1	40068	1990 QX ₇	2000 04 30.3	14 31.53	-17 27.7	19.0	-0.76	+	3.4	0.7/01.0	34285
9538 P-L	2000 04 29.3	14 27.71	-11 58.0	16.9	-0.99	+	5.4	1.1/28.6	40532	2000 GS ₁₄₂	2000 04 30.3	14 31.68	+00 37.9	17.2	-0.80	+	2.6	4.7/26.2	40271
3044 T-2	2000 04 29.3	14 27.79	-10 28.8	17.8	-0.74	+	3.6	1.2/28.2	40533	(9794)	2000 04 30.3	14 31.84	-20 55.3	16.5	-1.14	+	0.6	2.6/02.0	33210
1998 WX ₂₀	2000 04 29.3	14 27.82	-14 32.3	19.1	-1.00	+	4.7	0.0/29.3	38536	1992 OE ₇	2000 04 30.4	14 31.73	-34 46.2	19.3	-1.02	+	3.4	6.4/05.6	34185
1992 OC	2000 04 29.3	14 27.99	-34 53.2	18.1	-1.35	-	5.2	9.3/02.0	30782	(14663)	2000 04 30.4	14 31.79	-09 51.2	17.0	-0.86	+	5.1	1.8/29.0	39894
1998 XC ₃	2000 04 29.4	14 27.95	-12 22.1	19.0	-0.95	+	3.4	0.8/28.8	40048	(9771)	2000 04 30.4	14 31.93	-13 23.7	17.1	-1.10	+	2.2	0.6/30.1	33204
(9951)	2000 04 29.4	14 27.96	-00 51.4	16.8	-0.91	+	5.1	5.7/25.5	33660	1999 AR ₅	2000 04 30.4	14 31.97	-02 12.2	17.5	-0.82	+	2.1	3.8/27.2	40065
1996 QJ	2000 04 29.4	14 27.97	-16 48.5	19.4	-0.74	+	3.5	0.5/30.0	39973	2000 GG ₇₆	2000 04 30.4	14 32.04	-15 55.1	16.7	-0.82	+	3.3	0.4/30.7	40262
1996 RC ₂₄	2000 04 29.4	14 27.98	-04 41.9	16.3	-0.73	+	5.3	3.3/26.5	40313	1981 DC ₃	2000 04 30.4	14 32.17	-22 22.5	18.9	-0.94	+	6.3	3.2/02.6	26914
1996 LZ	2000 04 29.4	14 28.09	-15 51.9	16.5	-0.89	+	4.4	0.5/29.8	39971	4234 T-2	2000 04 30.5	14 32.15	-16 31.8	16.7	-0.83	+	2.2	0.5/30.9	40533
2259 T-2	2000 04 29.4	14 28.11	-14 50.1	18.3	-0.94	+	4.7	0.1/29.5	40533	1989 WN ₂	2000 04 30.5	14 32.23	-24 32.2	17.5	-0.89	+	6.8	3.0/03.3	35060
(14435)	2000 04 29.4	14 28.16	-10 34.4	17.6	-0.92	+	7.1	1.5/28.3	39829	1999 EA ₂	2000 04 30.5	14 32.23	-08 37.2	19.5	-0.90	+	4.6	2.0/28.8	38068
1991 PJ ₁₇	2000 04 29.4	14 28.26	-16 56.9	17.4	-1.06	+	6.0	1.0/30.1	40297	(14666)	2000 04 30.5	14 32.46	+03 09.9	16.6	-0.79	+	2.7	6.0/25.7	39895
2772 P-L	2000 04 29.4	14 28.26	-11 09.0	17.4	-1.04	+	4.2	1.5/28.6	40273	1981 ES ₂₈	2000 04 30.5	14 32.54	-21 29.7	17.5	-1.07	+	2.4	2.7/02.1	40290

1997 SE ₂	2000 04 30.6	14 32.68	-15 59.9	19.1	-0.83	+	4.1	0.3/30.9	40319	(14655)	2000 05 01.7	14 36.81	-07 10.6	17.5	-0.83	+	5.0	2.8/29.5	39892
1994 WP ₁	2000 04 30.6	14 32.70	-20 30.1	18.0	-0.95	+	5.3	2.0/02.1	40307	1997 VU ₆	2000 05 01.7	14 36.84	-11 57.3	17.6	-0.83	+	4.3	1.1/30.8	40321
1996 TM ₁₅	2000 04 30.6	14 32.80	-12 37.2	17.5	-0.78	+	3.9	0.7/30.0	40313	(10146)	2000 05 01.7	14 37.01	-12 38.5	17.1	-0.83	+	2.7	0.9/01.1	33892
(9943)	2000 04 30.6	14 32.87	-09 12.6	17.5	-0.89	+	3.4	1.8/29.2	40288	1998 TS ₆	2000 05 01.7	14 37.06	-30 19.1	17.8	-1.83	-	7.6	7.3/03.2	39543
1998 VA ₅	2000 04 30.6	14 32.96	-15 46.5	16.6	-0.92	+	5.6	0.3/30.9	40345	1998 YT ₂	2000 05 01.7	14 37.13	+02 54.2	17.3	-0.79	+	3.1	5.8/26.8	40059
3025 T-2	2000 04 30.7	14 33.03	-11 06.3	18.8	-1.00	+	4.8	1.4/29.7	33785	(14621)	2000 05 01.8	14 37.11	-03 28.8	17.7	-0.91	+	6.4	4.9/28.5	39883
1981 DF ₃	2000 04 30.7	14 33.08	-35 01.6	17.6	-0.91	+	2.5	8.9/06.1	26914	1999 BQ ₄	2000 05 01.8	14 37.13	-19 14.3	18.6	-0.94	+	4.0	1.3/02.8	34316
1999 AW ₇	2000 04 30.7	14 33.18	+05 23.5	17.7	-0.94	+	1.8	6.9/25.6	40066	1992 AO ₁	2000 05 01.8	14 37.21	-12 48.0	16.8	-1.02	+	3.2	1.0/01.2	40298
(11340)	2000 04 30.7	14 33.21	-10 15.0	17.7	-0.76	+	3.6	1.3/29.5	35575	(10205)	2000 05 01.8	14 37.32	-05 54.3	16.9	-0.99	+	2.6	4.2/29.6	33907
1999 BZ ₂₅	2000 04 30.8	14 33.46	-22 38.3	18.6	-0.92	+	3.2	2.5/02.8	35732	2000 GX ₇₆	2000 05 01.8	14 37.36	-13 41.4	15.4	-0.83	+	8.2	0.7/01.4	40262
1999 BV	2000 04 30.8	14 33.61	-19 36.1	17.8	-1.11	+	2.9	1.7/01.9	34230	1998 YD ₅	2000 05 01.8	14 37.38	+12 47.1	18.2	-0.74	+	2.2	7.7/24.0	38539
(9722)	2000 04 30.8	14 33.63	-15 50.6	18.2	-1.01	+	4.2	0.3/01.1	40288	1999 CA ₇₃	2000 05 01.8	14 37.39	-07 40.4	19.8	-0.82	+	6.2	2.2/29.7	34250
1998 SC ₅	2000 04 30.8	14 33.63	-32 42.4	17.1	-1.17	+	15.8	7.7/07.1	35716	1996 EO ₁₂	2000 05 01.8	14 37.40	-27 37.1	19.1	-1.13	+	4.8	4.3/04.9	33750
1994 CR ₁₄	2000 04 30.8	14 33.65	+01 55.6	18.2	-0.76	+	3.6	4.9/26.1	34192	1999 CK ₈₂	2000 05 01.8	14 37.52	-04 58.9	18.3	-1.00	+	3.4	3.8/29.3	40352
(12736)	2000 04 30.9	14 33.76	+07 17.9	17.6	-1.19	-	2.5	8.1/27.0	37047	1998 XV ₄	2000 05 01.9	14 37.47	-19 12.1	16.6	-0.92	+	3.6	1.6/02.9	40349
1993 OB ₁₀	2000 04 30.9	14 33.84	-23 33.2	18.8	-1.02	+	4.8	3.2/03.1	30782	(9762)	2000 05 01.9	14 37.53	-21 15.5	17.6	-1.09	+	3.8	2.4/03.3	40288
1997 NH	2000 04 30.9	14 33.99	-09 35.5	20.0	-0.89	+	4.7	1.8/29.5	30284	1999 CG ₉₀	2000 05 01.9	14 37.66	-39 57.4	17.5	-1.13	+	1.8	9.1/07.9	34253
1997 OF ₁	2000 04 30.9	14 34.00	-17 38.3	19.3	-0.99	+	4.7	0.9/01.6	34586	1996 HJ ₁₅	2000 05 01.9	14 37.67	-13 24.4	17.1	-0.92	+	4.4	0.8/01.4	40312
1996 TU ₁₉	2000 04 30.9	14 34.03	-28 43.7	19.4	-0.88	+	2.5	4.2/04.5	33696	(9939)	2000 05 01.9	14 37.70	-05 50.4	17.2	-1.04	+	4.2	3.7/29.6	33657
1999 AL ₃	2000 04 30.9	14 34.03	+17 40.4	19.2	-1.07	-	2.0	10.2/24.3	34038	1999 AB ₇	2000 05 01.9	14 37.86	+02 24.8	18.1	-0.76	+	3.7	5.5/27.1	34314
1992 RV ₂	2000 04 30.9	14 34.05	-06 50.1	18.4	-0.80	+	5.2	2.5/28.7	35686	1997 ST ₂₃	2000 05 01.9	14 37.93	-17 15.6	20.1	-0.91	+	3.5	0.6/02.5	32314
1998 VD ₄	2000 04 30.9	14 34.07	-12 56.2	19.1	-0.95	+	5.0	0.8/30.4	35723	1999 AJ ₅	2000 05 02.0	14 37.92	-08 10.4	17.4	-0.92	+	2.1	2.2/30.3	40351
1991 RC ₁₀	2000 05 01.0	14 34.21	-27 33.2	18.1	-0.89	+	2.0	3.6/04.1	35683	1981 UA ₂₃	2000 05 02.0	14 38.24	-11 13.7	18.2	-1.03	+	4.1	1.6/01.1	35678
1993 QY	2000 05 01.0	14 34.47	+20 06.7	19.1	-0.82	+	5.3	9.1/19.4	35688	1981 EO ₄₁	2000 05 02.1	14 38.29	-24 51.2	18.1	-0.97	+	1.7	3.0/04.3	34282
2000 EY ₃	2000 05 01.1	14 34.50	-16 25.2	16.5	-1.06	+	0.9	0.6/01.4	40128	1978 VC ₄	2000 05 02.1	14 38.31	-16 52.6	18.9	-0.85	+	3.6	0.5/02.5	35600
1999 BK ₁₂	2000 05 01.1	14 34.54	+05 36.2	18.9	-0.81	+	2.3	5.7/25.7	34601	1993 UZ ₂	2000 05 02.1	14 38.32	+19 39.7	18.8	-0.98	-	0.8	9.7/23.6	40304
1997 SK ₄	2000 05 01.1	14 34.62	-19 22.1	19.2	-0.90	+	4.2	1.4/02.2	34204	1997 WP ₁	2000 05 02.1	14 38.35	-16 23.3	18.4	-0.83	+	4.1	0.3/02.4	34299
1996 TA ₃₉	2000 05 01.1	14 34.65	-09 18.0	17.7	-0.79	+	3.7	2.3/29.6	34200	1998 YY ₂	2000 05 02.1	14 38.43	-11 14.8	17.7	-0.97	+	6.2	1.9/01.0	40350
(10996)	2000 05 01.1	14 34.68	-07 55.6	17.8	-0.75	+	3.1	2.0/29.2	35210	1999 AH ₁₃	2000 05 02.1	14 38.52	-11 39.3	19.4	-0.77	+	3.8	1.2/01.2	34315
1999 CD ₆₀	2000 05 01.1	14 34.83	+03 02.1	18.9	-0.83	+	6.2	5.8/25.8	34545	1998 WA ₃	2000 05 02.1	14 38.57	+09 15.5	19.1	-0.74	+	2.7	6.4/25.3	34029
2000 EF ₁₁₇	2000 05 01.1	14 34.89	-17 54.0	15.9	-1.06	+	1.1	1.4/01.8	40193	4049 T-3	2000 05 02.2	14 38.71	-11 47.1	18.8	-1.00	+	2.3	1.3/01.4	36125
(10135)	2000 05 01.2	14 34.88	-23 03.3	17.1	-1.00	+	5.6	2.9/03.3	33889	1999 CW ₆₅	2000 05 02.2	14 38.80	-16 01.5	18.7	-0.83	+	4.1	0.2/02.4	36086
1996 HS ₂₄	2000 05 01.2	14 34.90	-12 13.9	17.2	-0.89	+	3.7	1.3/30.5	39969	1997 MA ₃	2000 05 02.2	14 38.83	-11 11.2	17.4	-1.07	+	3.2	1.7/01.3	40318
1988 TN ₁	2000 05 01.2	14 34.95	-23 12.6	17.5	-1.03	+	0.8	2.6/03.0	40293	1989 VS ₁	2000 05 02.2	14 38.95	-10 00.9	18.2	-0.87	+	3.9	1.7/30.9	34285
1998 YB ₁	2000 05 01.3	14 35.41	-11 29.6	18.0	-0.93	+	1.2	1.2/30.5	34034	1998 QF ₂₇	2000 05 02.3	14 39.04	+14 40.6	19.1	-1.00	+	11.8	12.4/21.7	40330
1995 BP	2000 05 01.3	14 35.52	-41 53.8	16.2	-1.06	+	0.3	12.4/07.8	40307	1989 TT	2000 05 02.3	14 39.04	+02 42.0	19.2	-0.81	+	6.1	5.1/26.9	40294
6128 P-L	2000 05 01.4	14 35.73	-15 19.3	19.0	-0.93	+	4.7	0.0/01.5	34060	1999 CV ₁₁₆	2000 05 02.3	14 39.08	-02 54.2	20.1	-0.80	+	5.7	3.5/28.8	34550
1988 CY	2000 05 01.4	14 35.73	+08 14.0	16.9	-0.71	+	4.4	7.7/24.3	40292	1997 SC ₄	2000 05 02.3	14 39.31	-15 09.6	19.0	-0.81	+	4.1	0.1/02.3	35701
1985 CF ₂	2000 05 01.4	14 35.86	-02 09.7	16.4	-0.82	+	8.2	5.9/27.5	40291	1999 CN ₆₃	2000 05 02.3	14 39.35	-11 58.7	17.9	-0.77	+	6.9	1.1/01.3	40352
1990 FV ₁	2000 05 01.5	14 35.98	-30 45.4	16.8	-2.36	-	16.3	9.1/02.0	40294	1998 WG ₁	2000 05 02.3	14 39.36	-03 22.3	19.3	-0.92	+	11.4	4.0/28.5	39277
1997 OU ₂	2000 05 01.5	14 35.98	-00 21.1	18.6	-0.97	+	6.6	5.9/27.2	40318	1993 HW ₁	2000 05 02.3	14 39.38	+01 11.8	15.2	-1.10	-	4.0	8.7/29.4	40303
1997 UN ₁₀	2000 05 01.5	14 36.01	-17 08.6	17.9	-0.77	+	6.1	0.6/02.1	40320	(10338)	2000 05 02.4	14 39.71	-13 32.0	18.0	-0.75	+	3.7	0.5/01.9	34145
(10601)	2000 05 01.5	14 36.16	-11 51.5	18.5	-0.76	+	3.3	0.9/30.6	34463	1997 WK ₄₇	2000 05 02.4	14 39.84	-13 11.3	18.1	-0.81	+	3.0	0.7/01.9	31424
(9793)	2000 05 01.5	14 36.29	-11 59.3	18.5	-1.04	+	3.7	1.2/30.8	33209	1995 BC ₁	2000 05 02.5	14 39.78	-40 59.5	19.0	-1.14	+	3.0	8.4/09.4	34012
1997 XC ₁₀	2000 05 01.6	14 36.32	-18 16.1	16.7	-0.79	+	6.4	0.9/02.5	40321	1998 UC ₃₀	2000 05 02.5	14 39.83	-04 20.8	18.1	-0.87	+	5.0	4.0/29.6	40345
1997 WN ₄₃	2000 05 01.6	14 36.37	-25 44.8	18.5	-0.97	+	5.9	3.5/04.4	31252	1981 EN ₃₉	2000 05 02.5	14 39.90	-12 45.8	19.3	-0.84	+	5.0	1.0/01.8	39933
1997 YZ	2000 05 01.6	14 36.42	-22 19.0	16.4	-0.76	+	9.1	2.3/03.9	34588	(9888)	2000 05 02.5	14 40.02	-16 36.8	16.0	-0.94	+	2.6	0.4/02.8	33466
1998 WZ ₁₄	2000 05 01.6	14 36.58	-10 09.3	18.0	-0.98	+	3.7	2.0/30.4	35726	1997 SP ₁₇	2000 05 02.5	14 40.02	-11 22.2	19.6	-0.84	+	5.4	1.2/01.4	31590
1402 T-2	2000 05 01.6	14 36.59	-19 03.2	19.6	-0.96	+	3.9	1.3/02.6	28892	1997 RS ₃	2000 05 02.5	14 40.07	-18 18.1	18.0	-0.84	+	2.5	0.8/03.2	35701
1991 VA ₄	2000 05 01.6	14 36.69	-10 28.4	17.8	-1.01	+	4.2	1.8/30.5	40298	1998 XN ₁₃	2000 05 02.5	14 40.13	-10 29.2	17.6	-0.94	+	1.7	2.1/01.4	35728
1999 AR ₁₆	2000 05 01.6	14 36.75	-12 05.8	18.1	-0.86	+	4.8	1.2/30.8	40066	1998 XA ₉₀	2000 05 02.6	14 40.43	-14 52.1	17.2	-0.87	+	8.2	0.2/02.4	40350

(14205)	2000 05 02.7	14 40.91 +02 10.0 16.9	-0.76 + 3.2	5.7/28.0	39109
(10433)	2000 05 02.8	14 41.06 -20 24.4 17.7	-0.96 + 1.5	1.8/03.9	34167
5046 T-3	2000 05 02.8	14 41.07 -04 39.4 17.9	-1.00 + 3.6	4.5/30.2	40535
1990 UQ ₂	2000 05 02.8	14 41.16 -15 23.4 16.8	-1.06 + 2.1	0.1/02.8	40295
1999 CU ₄₆	2000 05 02.8	14 41.20 -23 10.2 17.9	-0.85 + 2.6	2.2/04.7	40352
(10177)	2000 05 02.8	14 41.30 -04 26.8 17.1	-0.96 + 6.0	4.5/29.8	33900
1989 GE ₃	2000 05 02.8	14 41.30 -20 23.7 18.6	-0.83 + 3.3	1.4/04.1	35680
1987 UE ₁	2000 05 02.9	14 41.35 +01 20.5 18.5	-0.90 +11.5	5.7/27.3	40292
(10077)	2000 05 02.9	14 41.58 -15 07.1 16.5	-1.03 + 0.8	0.2/02.8	33876
2505 P-L	2000 05 02.9	14 41.66 -22 31.7 18.7	-1.05 + 2.8	2.4/04.6	34059
1998 TS ₁₃	2000 05 02.9	14 41.67 -15 09.3 18.4	-1.02 + 3.1	0.2/02.9	35721
1998 TO ₁₉	2000 05 03.0	14 41.70 -16 17.4 18.6	-1.00 + 5.8	0.2/03.2	34593
1996 CW ₈	2000 05 03.0	14 41.73 -25 02.6 17.9	-1.11 + 1.4	4.2/05.0	30784
1999 AE	2000 05 03.0	14 41.88 -20 02.4 19.5	-0.99 + 5.3	1.4/04.2	34037
1992 BX	2000 05 03.0	14 41.88 -30 26.3 17.1	-1.07 + 6.2	5.4/07.2	35684
1999 CO ₁₆	2000 05 03.0	14 41.89 -16 38.5 17.6	-0.84 + 3.2	0.3/03.3	40069
1998 YO ₂₂	2000 05 03.0	14 41.90 +02 21.3 18.7	-0.83 + 3.2	5.3/28.4	40351
1998 UJ ₃₂	2000 05 03.1	14 42.09 -16 17.8 17.0	-1.02 + 7.3	0.2/03.3	40030
1999 BQ ₁₄	2000 05 03.1	14 42.16 -05 30.3 18.7	-0.95 + 5.1	3.5/30.5	35731
1978 SO ₇	2000 05 03.1	14 42.24 -19 53.6 17.8	-1.00 + 4.0	1.4/04.1	35676
1984 SR ₅	2000 05 03.1	14 42.34 -19 20.1 17.5	-0.80 + 2.4	1.0/04.0	40291
1994 VB ₂	2000 05 03.1	14 42.35 -12 46.1 17.9	-0.94 + 5.5	0.9/02.4	35067
(10426)	2000 05 03.1	14 42.41 +05 13.0 16.9	-0.86 + 2.8	6.5/27.8	34166
1995 EA ₉	2000 05 03.1	14 42.48 -29 42.4 16.4	-1.02 + 0.8	5.5/06.2	34292
1998 XJ ₁₉	2000 05 03.1	14 42.53 -13 10.5 18.7	-1.07 + 4.1	1.1/02.6	35728
1993 UC ₈	2000 05 03.2	14 42.50 -08 44.7 20.1	-0.90 + 4.6	2.3/01.4	35689
1994 CK ₁₄	2000 05 03.2	14 42.75 -21 51.9 18.4	-0.92 + 1.1	1.9/04.6	34853
(9897)	2000 05 03.3	14 43.10 -04 35.9 17.3	-1.03 + 4.9	4.3/30.5	33468
1981 EJ ₂₆	2000 05 03.3	14 43.10 -16 14.1 16.8	-1.12 + 4.1	0.2/03.5	39932
1993 KX ₁	2000 05 03.3	14 43.10 +25 56.5 16.1	-1.21 - 4.0	17.8/21.6	39520
1998 VN ₂₈	2000 05 03.3	14 43.17 -11 20.8 17.5	-1.03 + 2.4	1.8/02.4	40346
2000 GX ₃	2000 05 03.3	14 43.24 -12 34.8 17.6	-1.07 - 0.6	1.2/02.8	40257
(10122)	2000 05 03.4	14 43.39 -15 09.8 17.9	-0.75 + 3.5	0.2/03.3	33887
1997 SK ₁	2000 05 03.4	14 43.45 -21 53.3 17.5	-0.96 + 3.5	2.2/04.9	40319
1999 BF ₁₅	2000 05 03.5	14 43.68 -15 01.2 17.9	-0.96 + 4.9	0.3/03.3	40351
1997 MK ₃	2000 05 03.5	14 43.84 -16 17.0 18.5	-0.98 + 5.0	0.1/03.7	36802
1996 XY ₅	2000 05 03.5	14 43.87 -09 48.1 18.7	-0.60 + 2.3	1.2/02.0	34586
1991 UE	2000 05 03.5	14 44.08 -20 13.8 17.9	-1.07 + 4.1	1.7/04.6	34838
1999 AE ₂₄	2000 05 03.6	14 44.13 +02 14.1 19.2	-0.84 + 2.9	5.0/29.0	40351
1083 T-3	2000 05 03.6	14 44.13 -23 54.9 19.8	-0.97 + 3.9	2.6/05.6	36124
5130 T-3	2000 05 03.6	14 44.24 -04 23.1 18.1	-1.03 + 2.2	4.5/01.1	40535
1997 WY ₃₅	2000 05 03.6	14 44.29 -13 41.1 18.1	-0.86 + 1.3	0.6/03.2	31282
1998 US ₂₉	2000 05 03.7	14 44.53 -07 06.7 17.9	-1.02 + 0.8	3.2/01.9	40345
(14377)	2000 05 03.7	14 44.54 -01 04.6 17.2	-0.81 + 8.0	5.1/29.3	39812
1996 KX ₂	2000 05 03.7	14 44.64 -01 11.6 17.4	-0.82 + 6.4	4.9/29.5	40313
(10336)	2000 05 03.8	14 44.78 -23 35.3 17.8	-0.79 + 4.7	2.1/05.9	34145
1999 AW ₃	2000 05 03.8	14 45.03 -07 13.2 18.6	-0.93 + 2.6	2.9/01.8	34038
(9940)	2000 05 03.8	14 45.07 -18 58.9 16.9	-1.13 + 4.0	1.3/04.6	33657
1994 WO ₃	2000 05 03.9	14 45.18 +08 20.5 18.1	-1.08 + 0.2	7.8/28.5	35692
(14512)	2000 05 03.9	14 45.30 -16 44.7 17.3	-1.09 + 1.9	0.3/04.1	39850
5003 T-2	2000 05 03.9	14 45.42 -20 56.7 20.7	-0.93 + 5.1	1.5/05.2	34274

1998 YE ₁	2000 05 03.9	14 45.44 -25 51.2 17.8	-1.13 + 2.6	3.8/06.1	35729
1999 CZ ₆₁	2000 05 03.9	14 45.44 -04 26.2 17.6	-0.72 + 5.7	3.5/30.7	40352
1990 DA ₂	2000 05 03.9	14 45.56 -07 44.3 17.4	-0.82 + 4.9	2.7/01.8	40294
1995 FH ₁₅	2000 05 04.0	14 45.54 -08 44.8 18.2	-0.84 + 3.7	2.3/02.2	40308
1997 WZ ₁₆	2000 05 04.0	14 45.58 -21 38.1 17.3	-0.83 + 7.2	2.2/05.6	40321
1997 QB ₂	2000 05 04.0	14 45.61 -25 40.9 19.4	-1.09 + 2.5	3.3/06.2	31010
1997 XU ₁	2000 05 04.0	14 45.66 -01 30.0 17.8	-0.81 + 2.1	4.2/30.4	40321
1990 RV ₅	2000 05 04.0	14 45.73 -24 23.5 16.2	-1.07 + 2.2	4.0/05.9	40295
1998 WH	2000 05 04.0	14 45.84 -09 09.0 16.0	-0.97 + 0.8	3.3/02.6	40346
1991 RA ₁₁	2000 05 04.0	14 45.93 -27 51.9 16.8	-0.97 - 0.2	3.6/06.6	35421
1999 CM ₅₁	2000 05 04.0	14 45.96 -35 39.6 17.7	-1.08 + 1.6	5.9/08.6	35733
(10608)	2000 05 04.1	14 45.99 -10 45.9 18.5	-0.58 + 2.9	1.0/02.7	34465
1994 PA ₂	2000 05 04.1	14 46.02 -20 55.6 17.9	-1.12 + 3.6	1.9/05.2	34011
(11666)	2000 05 04.1	14 46.05 -14 29.9 16.3	-0.94 + 5.0	0.7/03.7	35875
4541 P-L	2000 05 04.1	14 46.16 -23 25.8 19.7	-0.93 + 2.4	2.2/05.9	40274
1981 EX ₂₃	2000 05 04.1	14 46.26 -18 00.4 18.3	-0.87 + 4.6	0.7/04.7	21967
1998 XT ₂₁	2000 05 04.1	14 46.29 -19 14.0 17.4	-0.90 + 4.6	1.2/05.0	40349
1997 SE	2000 05 04.1	14 46.34 +04 22.1 18.3	-0.84 + 6.4	6.7/28.2	40319
1997 SO ₁₁	2000 05 04.2	14 46.32 -17 35.8 20.4	-0.91 + 3.7	0.5/04.6	35701
(14631)	2000 05 04.2	14 46.55 +03 03.2 16.0	-0.83 + 0.4	6.3/29.8	39885
1999 CH ₆₀	2000 05 04.2	14 46.73 -14 33.1 19.2	-0.75 + 3.6	0.4/03.9	40352
(9867)	2000 05 04.3	14 46.88 -08 51.0 17.8	-1.03 + 3.5	2.6/02.7	33461
1999 AD	2000 05 04.3	14 46.92 -12 35.9 17.1	-0.99 + 5.9	1.4/03.5	40351
1981 EM ₃₁	2000 05 04.3	14 47.03 -13 58.9 18.5	-0.96 + 4.8	0.9/03.8	33332
1993 TJ ₃₇	2000 05 04.3	14 47.07 -10 24.2 18.7	-0.87 + 3.7	1.9/03.0	35689
(14515)	2000 05 04.4	14 47.14 -07 58.2 17.2	-0.88 + 5.9	2.8/02.2	39851
1991 RE ₆	2000 05 04.4	14 47.15 -19 47.3 17.0	-0.93 + 0.6	1.2/05.2	40297
1997 TO ₁₂	2000 05 04.4	14 47.34 -18 43.1 18.9	-0.96 + 3.9	0.9/05.1	35702
1997 QR	2000 05 04.5	14 47.49 -21 37.5 21.1	-0.91 + 4.4	1.6/05.9	31010
1998 WA ₁₂	2000 05 04.5	14 47.51 -12 34.1 18.3	-0.95 + 5.1	1.3/03.6	35726
(14498)	2000 05 04.5	14 47.56 -10 14.2 17.1	-0.87 + 3.5	2.1/03.1	39846
1999 AO ₃	2000 05 04.5	14 47.57 -25 43.6 18.4	-0.88 + 7.4	3.0/07.3	35730
2017 T-3	2000 05 04.5	14 47.58 -23 04.3 19.7	-1.00 + 2.7	2.2/06.1	34274
1997 XF ₂	2000 05 04.5	14 47.58 -25 26.2 17.6	-0.82 + 5.1	3.0/07.0	34300
1998 WZ ₂₆	2000 05 04.5	14 47.78 -11 59.1 18.9	-0.80 + 3.3	1.3/03.5	34031
(10342)	2000 05 04.6	14 47.89 -11 35.8 16.8	-0.85 + 1.9	1.5/03.5	34146
1984 SL ₅	2000 05 04.6	14 47.97 -31 27.6 19.3	-1.01 + 2.0	4.3/08.2	34485
1999 CF ₁₀₆	2000 05 04.6	14 48.04 +02 30.4 19.3	-0.85 + 5.1	5.7/29.5	34941
1998 SQ ₁₄₂	2000 05 04.6	14 48.08 -08 59.6 17.8	-1.03 + 3.9	3.1/03.0	35720
3423 T-3	2000 05 04.6	14 48.25 -13 57.2 19.4	-0.93 + 3.9	0.8/04.1	34061
(9739)	2000 05 04.7	14 48.24 -49 21.2 16.2	-1.46 + 6.7	15.2/14.8	33197
1997 QN ₃	2000 05 04.7	14 48.51 -20 28.8 18.1	-0.94 + 2.1	1.4/05.7	40319
1997 UF ₁₁	2000 05 04.9	14 49.31 -30 39.3 16.6	-1.51 - 5.5	6.0/06.6	39530
1979 WY ₃	2000 05 04.9	14 49.33 -04 32.8 17.3	-0.87 + 1.9	3.6/02.3	40289
1980 FS ₄	2000 05 05.0	14 49.57 -02 38.3 17.7	-0.76 + 5.8	4.1/01.2	40289
4556 P-L	2000 05 05.0	14 49.67 -16 24.4 18.0	-0.82 + 2.9	0.0/05.1	34337
1998 XU ₁	2000 05 05.0	14 49.84 -14 57.9 17.8	-0.91 + 5.1	0.5/04.8	40349
1997 TR ₂₄	2000 05 05.1	14 49.80 -14 43.2 18.0	-0.79 + 3.9	0.5/04.7	35702
1988 CU	2000 05 05.1	14 49.88 +24 46.5 17.3	-0.92 + 2.0	15.1/23.9	40292
1997 WV ₃₅	2000 05 05.1	14 50.04 -21 09.2 17.9	-0.78 + 3.7	1.3/06.4	34524
1997 UG ₂	2000 05 05.1	14 50.17 -15 59.8 19.0	-0.87 + 4.3	0.1/05.1	35702

(14208)	2000 05 05.1	14 50.23	-07 11.8	16.3	-0.85	+ 8.5	3.2/02.5	39110	1987 QZ ₆	2000 05 06.6	14 55.77	-25 20.5	17.0	-1.06	+ 5.2	3.7/08.7	34574
(14764)	2000 05 05.2	14 50.26	+03 51.9	16.5	-0.95	+18.0	9.2/27.9	39922	(10016)	2000 05 06.6	14 55.82	-23 58.5	17.6	-1.02	+ 3.5	2.5/08.3	33862
(14339)	2000 05 05.2	14 50.41	+08 31.1	15.1	-0.91	+ 2.2	9.8/28.6	39800	(14476)	2000 05 06.6	14 55.91	+04 38.1	17.0	-0.85	+ 3.4	6.8/01.0	39840
1997 VD ₄	2000 05 05.2	14 50.56	-15 44.8	16.3	-0.84	+ 4.2	0.2/05.1	40321	(10033)	2000 05 06.7	14 56.06	-09 41.1	16.5	-0.88	+ 0.3	2.4/05.3	38749
(10190)	2000 05 05.3	14 50.74	-12 04.1	18.1	-0.84	+ 3.3	1.4/04.3	33903	(14539)	2000 05 06.7	14 56.19	-10 49.1	17.2	-0.84	+ 5.5	2.6/05.2	39858
1989 ST ₃	2000 05 05.3	14 50.86	-11 27.1	18.6	-0.90	+ 4.0	1.7/04.2	34575	1998 YW	2000 05 06.7	14 56.36	-17 19.8	18.6	-1.05	+ 4.7	8.9/17.0	35729
2209 T-1	2000 05 05.3	14 50.95	-14 05.7	18.1	-0.76	+ 2.9	0.6/04.8	34338	1990 QA	2000 05 06.7	14 56.37	-28 24.7	17.2	-0.99	- 0.5	3.3/09.0	34576
2668 P-L	2000 05 05.4	14 51.00	-13 55.3	18.0	-1.00	+ 4.1	1.1/04.8	35046	1993 QR ₄	2000 05 06.7	14 56.39	-20 11.5	17.3	-0.98	+ 2.9	1.3/07.6	40303
(14651)	2000 05 05.4	14 51.14	-12 19.5	16.5	-0.79	+ 3.0	1.5/04.4	39891	1981 EQ ₁₀	2000 05 06.7	14 56.42	-21 47.7	19.3	-1.02	+ 4.5	1.8/08.0	33540
(10632)	2000 05 05.4	14 51.36	-06 02.6	18.7	-0.60	+ 2.3	2.1/02.8	34471	(9861)	2000 05 06.8	14 56.36	-19 10.5	18.0	-1.05	+ 5.5	0.9/07.4	33460
1999 CG ₈₉	2000 05 05.4	14 51.38	-19 32.6	18.3	-0.99	+ 3.9	1.1/06.2	35733	(9893)	2000 05 06.8	14 56.48	-18 57.1	15.7	-0.98	+ 4.5	1.1/07.3	33467
1999 CG ₆₂	2000 05 05.5	14 51.62	+02 08.6	16.2	-0.74	+ 6.8	5.9/30.0	40352	1997 UX ₁₄	2000 05 06.8	14 56.63	-17 49.3	18.2	-0.96	+ 1.1	0.3/07.0	34298
1996 CY	2000 05 05.5	14 51.74	-04 53.7	18.0	-0.99	+ 3.6	4.9/02.9	40311	1997 UE ₁	2000 05 06.8	14 56.68	-19 05.1	19.4	-0.96	+ 2.7	0.7/07.4	31146
1999 AZ ₂₆	2000 05 05.6	14 51.74	-24 26.6	18.3	-0.90	+ 3.9	2.6/07.6	35731	(14474)	2000 05 06.8	14 56.80	-11 23.7	17.5	-0.92	+ 3.4	2.3/05.6	39840
1998 WJ ₉	2000 05 05.6	14 51.87	+02 55.8	17.8	-0.95	+ 0.2	7.0/01.7	40347	1998 QM ₉₈	2000 05 06.9	14 57.10	+11 00.1	17.7	-1.00	+14.9	12.1/26.8	39992
1997 SH ₁₁	2000 05 05.7	14 52.50	-18 58.4	20.7	-0.96	+ 2.9	0.8/06.3	31011	(10014)	2000 05 06.9	14 57.13	-15 17.7	16.4	-0.94	+ 5.6	0.6/06.6	33861
(14323)	2000 05 05.8	14 52.68	-03 33.4	17.1	-0.94	+ 4.2	5.6/02.6	39796	1988 DA ₅	2000 05 07.0	14 57.13	+05 11.5	17.6	-0.70	+ 7.3	6.5/30.1	40293
1989 SF ₁₄	2000 05 05.8	14 52.84	-26 32.7	18.6	-0.94	+ 7.7	3.4/08.7	34177	1993 FL ₄₁	2000 05 07.0	14 57.14	-09 54.5	17.7	-0.98	+ 5.0	3.0/05.3	33746
1998 XG ₉₇	2000 05 05.8	14 52.91	-22 56.0	19.4	-0.91	+ 3.9	2.1/07.5	34312	1997 YJ ₅	2000 05 07.0	14 57.21	-36 10.3	17.1	-0.86	+ 3.3	5.2/12.0	35704
(9994)	2000 05 05.8	14 52.95	-13 06.1	18.3	-0.87	+ 5.8	1.1/05.0	33669	1998 WB ₁₀	2000 05 07.0	14 57.32	-18 13.4	18.0	-0.99	+ 4.7	0.5/07.4	34596
1994 UT	2000 05 05.9	14 52.93	-21 40.9	18.1	-1.02	+ 5.5	1.9/07.2	33748	1990 SL ₇	2000 05 07.0	14 57.34	-15 29.0	18.8	-0.99	+ 3.3	0.5/06.7	35682
1998 AN ₈	2000 05 05.9	14 52.95	-17 04.4	17.4	-1.04	- 0.5	0.2/06.0	40321	4050 T-3	2000 05 07.1	14 57.66	-08 46.8	18.6	-0.90	+ 3.9	2.7/05.2	36125
(10404)	2000 05 05.9	14 53.18	-12 41.8	18.9	-0.78	+ 3.4	1.1/05.0	34161	1997 UQ ₁₀	2000 05 07.2	14 58.04	-09 40.2	20.0	-0.88	+ 4.1	2.2/05.5	33960
1999 BP ₉	2000 05 05.9	14 53.19	+03 00.9	16.3	-0.77	+ 3.9	8.8/30.4	40351	1993 HE ₁	2000 05 07.2	14 58.20	-22 41.1	16.0	-1.06	- 4.0	3.2/08.1	40303
6299 P-L	2000 05 05.9	14 53.21	-06 08.6	17.7	-0.80	+ 7.3	3.5/03.0	40531	1997 NY ₆	2000 05 07.3	14 58.32	+03 32.6	19.0	-0.89	+ 3.5	7.0/02.2	30692
1998 VS ₃₅	2000 05 05.9	14 53.21	-19 47.8	17.0	-0.94	+ 4.3	1.5/06.8	40346	(14102)	2000 05 07.3	14 58.33	-14 33.6	15.8	-0.97	+ 2.0	1.1/06.8	39080
1998 VA ₃₃	2000 05 05.9	14 53.33	-16 59.6	16.9	-0.93	+ 5.0	0.2/06.1	40039	1993 UC ₃	2000 05 07.3	14 58.34	-18 45.4	18.6	-0.89	+ 3.7	0.5/07.7	34581
1999 CS ₆₄	2000 05 06.0	14 53.36	-35 42.8	17.5	-0.87	+ 5.3	5.6/11.5	35083	(10094)	2000 05 07.3	14 58.36	-37 13.4	16.0	-1.18	+ 0.3	6.8/11.4	33880
1993 RS ₃	2000 05 06.0	14 53.40	-11 25.3	18.1	-0.86	+ 7.0	1.5/04.6	33937	1980 VW ₂	2000 05 07.3	14 58.49	-22 56.2	18.5	-1.10	+ 2.3	2.3/08.6	34002
1998 WY ₁₇	2000 05 06.0	14 53.51	-17 22.8	19.0	-1.07	+ 2.5	0.3/06.2	39282	1981 ES ₄₀	2000 05 07.4	14 58.69	-09 02.2	19.4	-0.82	+ 4.9	2.3/05.4	35678
1999 CJ	2000 05 06.0	14 53.57	-26 49.3	17.4	-0.94	+ 1.3	3.2/08.3	34938	1996 CB ₃	2000 05 07.4	14 58.83	-19 14.9	17.3	-0.97	+ 7.6	1.0/08.0	40311
1997 VC ₁	2000 05 06.0	14 53.58	-14 40.8	17.2	-0.86	+ 2.8	0.7/05.6	40321	1998 WB ₆	2000 05 07.4	14 58.96	-20 06.0	16.3	-1.00	+ 7.4	1.3/08.3	40347
1991 RQ ₃	2000 05 06.1	14 53.68	-31 09.7	19.7	-0.89	+ 1.9	3.9/09.5	34494	1995 BL ₄	2000 05 07.5	14 59.09	-36 02.0	17.9	-1.07	+ 3.7	6.1/12.2	35068
1996 RA ₁₆	2000 05 06.1	14 53.97	-17 34.7	18.6	-0.80	+ 3.5	0.3/06.4	34515	1991 GH ₈	2000 05 07.5	14 59.11	-27 46.7	17.4	-1.11	- 1.4	4.4/09.3	25081
1982 FJ ₃	2000 05 06.2	14 54.07	-19 20.1	16.4	-0.93	+ 2.7	1.4/06.8	40291	1993 OQ ₄	2000 05 07.5	14 59.13	-11 22.1	17.1	-0.88	+ 4.2	2.7/06.1	40303
1996 SK ₆	2000 05 06.2	14 54.11	-12 40.3	19.3	-0.73	+ 4.2	1.0/05.2	31278	1996 GK ₅	2000 05 07.5	14 59.16	-13 19.1	19.0	-1.00	+ 3.3	1.3/06.7	35695
1997 WN ₃₆	2000 05 06.2	14 54.14	-00 21.8	17.5	-0.90	- 1.5	4.9/03.1	40321	1999 AH ₇	2000 05 07.5	14 59.22	-17 12.6	17.3	-0.85	+ 5.2	0.1/07.6	40065
1994 VO ₆	2000 05 06.2	14 54.31	-20 19.3	18.2	-1.06	+ 1.7	1.2/07.0	34582	1997 XR ₁₁	2000 05 07.5	14 59.27	-39 25.3	16.5	-1.07	+ 3.5	8.4/13.0	35703
(9953)	2000 05 06.2	14 54.36	-18 58.4	17.2	-0.92	+ 4.8	0.8/07.0	33660	1999 AA ₁₃	2000 05 07.5	14 59.28	-06 50.7	18.2	-0.78	+ 2.7	3.3/05.2	34315
1995 DZ ₅	2000 05 06.2	14 54.46	-18 00.4	19.0	-0.94	+ 3.5	0.5/06.6	35693	1997 SJ ₁₆	2000 05 07.5	14 59.29	-15 39.7	19.7	-0.94	+ 1.8	0.5/07.3	33954
1998 VY ₃₂	2000 05 06.3	14 54.77	-15 43.7	17.5	-1.00	+ 2.8	0.4/06.2	40346	(10266)	2000 05 07.5	14 59.30	-26 33.0	18.4	-0.93	+ 2.6	2.8/09.7	34128
1993 FM ₁₄	2000 05 06.3	14 54.79	-17 29.8	17.5	-1.12	+ 1.7	0.3/06.5	33339	1994 UR	2000 05 07.5	14 59.44	-13 07.0	19.1	-0.98	+ 3.0	1.4/06.7	33748
1988 RJ ₄	2000 05 06.3	14 54.82	-15 23.5	17.2	-0.89	+ 4.6	0.4/06.1	40293	(11192)	2000 05 07.6	14 59.57	-29 41.9	17.0	-1.04	+ 2.8	4.4/10.5	35261
1997 OY ₁	2000 05 06.4	14 54.91	-06 05.3	18.2	-0.87	+ 5.5	3.3/03.6	34586	(10103)	2000 05 07.6	14 59.69	-25 02.9	17.1	-1.11	+ 1.1	3.3/09.2	33882
1999 CR ₁₁₈	2000 05 06.4	14 54.95	-25 32.2	18.1	-0.91	+ 1.6	2.6/08.4	34258	1996 PF ₄	2000 05 07.6	14 59.75	-47 08.2	18.7	-1.09	+ 1.2	8.2/15.1	34862
1993 BD ₁₃	2000 05 06.4	14 55.05	-24 04.6	17.0	-0.81	+ 3.6	2.2/08.3	34289	1999 CW ₆₉	2000 05 07.6	14 59.77	-20 02.9	18.4	-0.87	+ 6.7	0.9/08.5	35444
1993 FL ₃₄	2000 05 06.4	14 55.07	-17 02.7	16.9	-0.78	+ 1.6	0.1/06.5	40302	(9886)	2000 05 07.6	14 59.80	-16 43.4	18.2	-1.00	+ 3.2	0.1/07.6	33466
(10121)	2000 05 06.4	14 55.11	-17 05.4	17.3	-0.81	+ 3.2	0.1/06.6	33886	1996 HQ ₉	2000 05 07.7	14 59.86	-14 16.8	18.0	-0.91	+ 7.3	0.9/07.0	34014
1997 VA ₇	2000 05 06.5	14 55.22	-16 05.7	18.0	-0.81	+ 8.2	0.2/06.3	40321	(9900)	2000 05 07.7	14 59.99	-08 19.8	14.4	-0.86	+ 4.3	4.8/05.5	33469
1993 TV ₂₃	2000 05 06.5	14 55.58	-13 21.7	20.5	-0.88	+ 4.1	1.0/05.8	34504	1981 DH ₂	2000 05 07.7	15 00.15	-16 34.6	19.1	-0.83	+ 6.9	0.1/07.6	26914
1999 CL ₆₄	2000 05 06.5	14 55.60	-03 43.2	17.7	-0.75	+ 5.2	3.8/03.1	40072	(10231)	2000 05 07.8	15 00.35	-11 27.3	17.8	-0.81	+ 2.9	1.7/06.5	33913

1997 SL ₂	2000 05 07.8	15 00.52	-06 03.4	18.3	-0.87	+	3.2	3.9/05.3	40319
1993 XK ₃	2000 05 07.8	15 00.68	+03 03.1	16.3	-1.54	-	7.6	9.5/06.0	40304
(10206)	2000 05 07.9	15 00.74	-19 36.8	16.8	-1.00	+	4.0	1.1/08.5	39510
1999 BS	2000 05 07.9	15 01.06	-14 13.6	18.8	-0.97	+	4.7	1.0/07.3	35731
1981 EW ₁₁	2000 05 08.0	15 01.04	-18 21.2	19.1	-0.94	+	4.8	0.6/08.3	26917
1981 ET ₁₉	2000 05 08.0	15 01.13	-13 16.5	18.5	-0.92	+	4.0	1.8/07.1	21967
1988 CR ₇	2000 05 08.0	15 01.14	-13 27.9	16.5	-0.93	+	2.5	1.7/07.2	40293
3111 T-2	2000 05 08.0	15 01.27	+00 08.7	17.2	-0.83	+	7.2	6.6/03.2	40533
1989 UP ₃	2000 05 08.0	15 01.37	-08 11.6	18.2	-0.84	+	6.8	2.9/05.7	35681
1981 EH ₁₃	2000 05 08.0	15 01.44	-19 46.5	18.6	-1.01	+	5.4	1.1/08.7	30892
(14532)	2000 05 08.1	15 01.56	+04 10.0	17.5	-0.83	+	6.7	7.9/02.0	39856
1999 CT ₇₀	2000 05 08.1	15 01.64	-16 57.8	17.7	-0.76	+	4.4	0.1/08.1	34250
1994 PQ ₁₆	2000 05 08.1	15 01.65	-26 15.8	18.1	-1.11	+	3.7	3.5/10.2	33747
(11292)	2000 05 08.1	15 01.67	+02 20.7	17.8	-0.75	+	4.5	6.7/02.9	35564
1992 DY ₈	2000 05 08.1	15 01.76	-15 11.2	17.0	-0.98	+	2.4	0.9/07.8	40299
1994 WQ	2000 05 08.2	15 01.98	-25 54.1	17.9	-0.97	+	7.3	3.3/10.6	35692
(10012)	2000 05 08.2	15 01.99	-19 36.1	18.6	-0.98	+	4.1	0.8/08.8	33861
1993 TO ₁₇	2000 05 08.2	15 02.02	-18 52.4	18.4	-0.95	+	2.7	0.6/08.6	35689
1999 CF ₈₅	2000 05 08.2	15 02.04	-10 25.7	18.6	-0.89	+	3.2	2.2/06.7	35733
1996 AE ₁₄	2000 05 08.2	15 02.04	-06 43.8	16.6	-1.08	+	2.1	4.8/06.0	39963
1999 AC ₄	2000 05 08.3	15 02.22	-18 25.0	17.4	-0.83	+	2.8	0.4/08.6	40351
1990 BB	2000 05 08.3	15 02.31	-31 56.8	16.9	-0.95	+	5.9	5.3/12.4	34285
1996 PM ₉	2000 05 08.3	15 02.42	-14 39.0	18.5	-0.83	+	3.9	0.8/07.7	32953
(10043)	2000 05 08.3	15 02.46	+06 40.3	17.1	-0.71	+	3.7	6.4/01.9	40288
1981 EZ ₆	2000 05 08.3	15 02.46	-21 51.8	19.9	-1.00	+	5.6	1.5/09.5	33540
1998 AD	2000 05 08.3	15 02.63	-33 10.4	18.6	-1.04	+	2.0	4.7/11.9	34888
1999 CQ ₂₇	2000 05 08.4	15 02.74	-06 25.3	17.2	-0.87	+	0.4	3.7/06.2	40352
1998 WE ₂₀	2000 05 08.4	15 02.88	-20 01.5	19.0	-1.09	+	3.1	1.1/09.1	35727
1998 XU ₄₀	2000 05 08.4	15 02.88	-08 21.7	17.6	-0.99	-	0.1	3.1/06.8	40053
1999 BL ₂₈	2000 05 08.4	15 02.96	-02 05.2	18.0	-1.03	+	4.3	6.6/04.8	40352
1998 YW ₉	2000 05 08.5	15 03.04	-15 02.3	18.4	-0.96	+	4.1	0.7/08.0	35729
1991 CJ ₁	2000 05 08.5	15 03.08	+00 23.7	18.0	-0.89	+	2.9	6.2/04.4	40296
1993 UV	2000 05 08.5	15 03.09	-13 46.5	19.0	-0.83	+	6.5	1.0/07.6	34010
1996 NF ₄	2000 05 08.6	15 03.47	-28 57.0	18.1	-0.88	+	3.5	3.5/11.4	34294
1995 FE ₁₅	2000 05 08.6	15 03.57	-02 46.1	19.5	-0.81	+	5.5	4.7/04.7	33944
(10408)	2000 05 08.6	15 03.61	-16 12.0	18.6	-0.78	+	3.4	0.3/08.4	34162
1999 CE ₅	2000 05 08.6	15 03.79	-19 42.9	19.0	-0.92	+	2.8	0.8/09.2	35732
(14661)	2000 05 08.7	15 03.75	-10 54.0	17.1	-0.85	+	4.1	2.3/07.1	39894
1991 RC ₁₁	2000 05 08.7	15 03.85	-03 59.8	17.6	-0.71	+	6.9	3.5/04.9	40297
1999 CB ₂₁	2000 05 08.7	15 03.87	-14 24.0	17.9	-0.80	+	2.8	0.9/08.1	35732
1994 EY ₆	2000 05 08.7	15 03.88	+02 30.1	17.5	-0.76	+	2.6	6.9/03.9	39955
1999 BO ₄	2000 05 08.7	15 04.05	-40 10.1	17.7	-1.19	+	1.5	8.8/13.4	33985
(9941)	2000 05 08.8	15 04.20	-23 02.2	17.3	-1.04	+	6.4	2.3/10.2	33657
1994 VU ₂	2000 05 08.8	15 04.25	-21 58.8	17.1	-1.18	+	1.2	1.9/09.7	40307
1999 CH ₉	2000 05 08.8	15 04.29	-08 35.1	18.5	-0.91	+	6.2	2.9/06.6	35732
(9975)	2000 05 08.8	15 04.30	-17 57.6	17.1	-0.97	+	4.5	0.3/09.0	33665
1999 CJ ₆₂	2000 05 08.8	15 04.34	-30 16.5	17.3	-0.87	+	4.8	4.2/12.2	35083
1999 CA ₃₆	2000 05 08.9	15 04.69	-31 36.8	18.8	-1.02	+	0.9	4.4/12.0	34242
3538 P-L	2000 05 08.9	15 04.81	-23 45.5	17.8	-1.11	+	4.8	2.4/10.4	34059
1997 YW ₁₆	2000 05 08.9	15 04.84	+02 56.3	19.4	-0.76	+	1.6	5.2/04.1	34215
1993 OB	2000 05 08.9	15 04.97	-43 30.1	17.6	-1.24	+	6.2	8.8/15.7	34289

1981 SC ₇	2000 05 09.0	15 04.90	-19 23.8	17.9	-1.01	+	1.8	0.6/09.4	34282
1999 CT ₂₉	2000 05 09.0	15 04.93	-39 44.3	16.3	-1.13	+	1.6	8.7/13.7	38544
1997 PV ₄	2000 05 09.0	15 05.04	-01 55.4	17.4	-0.96	+	6.1	6.8/04.9	39978
1994 PE ₃₃	2000 05 09.0	15 05.11	-24 28.9	15.8	-1.04	+	5.2	3.3/10.7	40306
1998 XO ₁₂	2000 05 09.0	15 05.15	-14 42.6	19.3	-1.00	+	3.2	0.9/08.5	35728
(10137)	2000 05 09.0	15 05.27	-23 31.4	18.3	-1.01	+	3.8	2.1/10.4	33890
1997 VA ₁	2000 05 09.0	15 05.38	-20 21.8	18.5	-1.06	+	4.1	1.2/09.7	39187
1997 UJ ₃	2000 05 09.1	15 05.44	-22 01.7	16.7	-0.91	+	3.8	1.7/10.2	40320
3086 P-L	2000 05 09.1	15 05.44	-21 36.6	16.6	-0.81	+	6.1	1.4/10.2	40530
1994 TY ₂	2000 05 09.1	15 05.52	-26 42.6	18.2	-1.11	+	1.7	3.1/11.0	36515
1994 LY ₁	2000 05 09.2	15 06.08	-02 30.9	18.5	-1.01	+	3.3	6.0/06.0	33550
1998 TB	2000 05 09.2	15 06.09	-08 24.6	17.0	-0.97	+	2.8	3.4/07.3	40342
1999 CB	2000 05 09.3	15 06.23	-01 52.2	17.9	-0.77	+	1.5	4.5/05.9	40069
1990 WF ₃	2000 05 09.4	15 06.64	-12 51.2	18.1	-1.01	+	4.5	1.7/08.4	34492
(10354)	2000 05 09.4	15 06.64	-37 24.4	17.8	-0.91	+	2.7	5.8/14.3	34149
1998 VG ₃₂	2000 05 09.4	15 06.70	-13 38.8	18.1	-1.03	+	2.8	1.5/08.6	33764
1999 DE ₇	2000 05 09.4	15 06.71	-15 11.4	17.6	-0.81	+	2.5	0.8/08.9	35734
1998 XD	2000 05 09.4	15 06.72	-06 11.7	20.1	-0.81	+	2.3	3.2/07.0	39284
1999 CN ₁₀	2000 05 09.4	15 06.83	-15 58.1	19.0	-0.79	+	3.2	0.4/09.1	34602
1995 AX ₃	2000 05 09.4	15 06.88	-05 55.0	18.5	-0.96	+	1.3	4.1/07.2	34194
1998 VA ₄₄	2000 05 09.5	15 06.87	-13 08.7	18.0	-0.91	+	3.2	1.8/08.5	35725
1991 RZ ₁₆	2000 05 09.5	15 07.13	-16 26.7	18.9	-1.06	+	3.5	0.4/09.3	33546
1993 OV ₁₀	2000 05 09.5	15 07.17	-18 47.3	18.9	-0.67	+	3.0	0.3/09.9	22959
(14656)	2000 05 09.5	15 07.18	-01 17.7	17.1	-0.84	+	3.2	5.7/05.7	39892
1998 YU ₂₉	2000 05 09.5	15 07.20	-11 34.7	18.5	-1.01	+	1.3	1.9/08.4	35730
1998 YM ₁₆	2000 05 09.6	15 07.29	-15 55.4	18.2	-0.80	+	3.4	0.5/09.2	40351
1990 SA ₈	2000 05 09.6	15 07.30	-13 15.7	18.0	-0.99	+	3.3	1.6/08.7	35682
1997 WH	2000 05 09.6	15 07.39	-21 38.2	18.6	-0.76	+	5.3	1.2/10.7	34018
1972 TR ₈	2000 05 09.6	15 07.42	-39 05.1	17.2	-1.14	+	2.6	8.2/14.3	35676
1990 WD ₂	2000 05 09.6	15 07.57	-07 10.2	17.4	-0.96	+	2.1	4.0/07.5	40296
1993 TD ₂₆	2000 05 09.6	15 07.70	-04 04.0	19.3	-0.86	+	8.5	4.9/05.8	27557
1993 SS ₄	2000 05 09.7	15 07.98	-19 44.0	20.1	-0.95	+	3.5	0.7/10.3	34290
(9942)	2000 05 09.7	15 08.07	-25 07.1	17.4	-1.02	+	1.4	2.4/11.3	33658
1999 CP ₄₈	2000 05 09.8	15 08.03	-14 15.1	18.5	-0.77	+	2.8	0.9/09.0	34543
1991 BJ ₂	2000 05 09.8	15 08.04	-19 43.9	17.5	-0.99	+	2.7	0.8/10.3	40296
1990 QT ₇	2000 05 09.8	15 08.07	-17 48.7	18.3	-0.75	+	3.2	0.1/09.9	35682
1999 BG ₁₁	2000 05 09.8	15 08.32	-19 13.9	18.7	-0.86	+	3.2	0.5/10.2	35731
4339 T-1	2000 05 09.8	15 08.43	-19 12.9	17.5	-1.09	-	0.2	0.7/10.2	30682
1999 CU ₇₀	2000 05 09.9	15 08.42	-05 01.6	16.8	-0.75	+	4.9	4.1/06.6	40352
1997 VY	2000 05 09.9	15 08.81	-19 25.6	19.1	-1.03	+	4.9	0.6/10.4	31148
1994 VE ₂	2000 05 10.0	15 09.16	-20 29.2	19.1	-1.05	+	2.5	1.0/10.6	34292
1998 WG ₉	2000 05 10.1	15 09.33	-17 03.4	18.6	-1.06	+	2.6	0.2/10.0	34030
1994 YN ₁	2000 05 10.1	15 09.44	-15 06.0	18.3	-1.01	+	3.0	0.9/09.6	34012
1981 EW ₂₇	2000 05 10.1	15 09.47	-09 24.9	19.3	-0.82	+	4.6	2.5/08.2	33923
1999 AT ₂₂	2000 05 10.1	15 09.58	-18 26.4	18.1	-0.96	+	5.2	0.3/10.4	34600
1265 T-2	2000 05 10.1	15 09.65	-16 43.9	18.0	-0.94	+	4.3	0.4/10.0	36123
(11741)	2000 05 10.2	15 09.59	-17 20.0	17.3	-0.87	+	2.5	0.1/10.1	35895
(10420)	2000 05 10.2	15 09.64	-15 46.9	16.8	-0.83	+	2.3	0.7/09.8	40288
1997 XY ₆	2000 05 10.2	15 09.69	-16 19.9	17.4	-0.94	+	3.8	0.5/09.9	40321
1998 UL ₆	2000 05 10.2	15 09.94	-00 26.3	17.0	-0.81	+	1.4	5.6/06.5	40025
1999 CZ ₅	2000 05 10.2	15 10.00	-48 19.8	18.4	-1.35	+	1.8	10.5/17.4	35443

1992 JR ₃	2000 05 10.2	15 10.01	-20 01.0	16.0	-0.92	+	4.6	1.0/10.8	40300
(10050)	2000 05 10.3	15 10.01	+04 42.3	16.0	-0.80	+	5.9	9.6/03.5	33870
(9732)	2000 05 10.3	15 10.04	-30 15.9	17.1	-1.14	+	4.8	5.0/13.2	38749
1998 XC ₁₄	2000 05 10.3	15 10.06	-10 12.2	16.2	-0.94	+	1.5	3.3/08.8	40051
1996 JT	2000 05 10.3	15 10.11	-17 48.2	17.7	-0.92	+	6.0	0.0/10.3	33947
1998 SP ₃₃	2000 05 10.3	15 10.45	-24 58.1	18.3	-1.15	+	3.7	2.6/12.0	34023
1993 TW ₁₇	2000 05 10.4	15 10.37	-06 12.3	20.1	-0.82	+	5.6	3.4/07.5	40304
1993 VV ₇	2000 05 10.4	15 10.45	+26 58.8	19.3	-0.91	-	0.4	11.1/29.5	39521
1993 TO ₂₄	2000 05 10.4	15 10.53	-13 38.6	17.5	-0.92	+	2.7	1.6/09.6	33550
(9880)	2000 05 10.4	15 10.55	-14 58.3	18.0	-1.00	+	5.3	1.1/09.8	33464
1998 AU ₃	2000 05 10.4	15 10.56	-14 34.6	18.2	-0.76	+	2.7	0.8/09.7	35704
(14181)	2000 05 10.4	15 10.59	-11 56.5	17.5	-0.94	+	1.1	2.0/09.3	39103
1998 WK ₁₉	2000 05 10.4	15 10.81	-32 40.2	17.1	-1.00	+	6.1	5.0/14.4	34597
1999 CU ₉₉	2000 05 10.4	15 10.84	-15 19.6	17.6	-0.91	+	1.4	0.8/10.0	35734
6189 P-L	2000 05 10.5	15 10.93	-19 35.1	19.3	-1.07	+	4.8	0.7/10.9	33784
1992 BJ	2000 05 10.5	15 10.94	-12 56.8	17.8	-1.00	+	3.7	1.9/09.5	40298
1989 CQ	2000 05 10.5	15 11.21	-18 39.9	16.9	-1.07	+	1.7	0.4/10.8	40293
1993 FZ ₂₂	2000 05 10.6	15 11.16	-19 15.4	16.8	-1.05	+	4.8	0.7/10.9	39155
1998 XF ₄₄	2000 05 10.6	15 11.47	-22 48.0	17.4	-1.07	+	1.8	1.9/11.6	40349
1994 CE ₁₄	2000 05 10.6	15 11.48	-01 35.9	17.9	-0.78	+	2.4	5.2/07.0	40305
(10201)	2000 05 10.6	15 11.52	-11 53.4	17.1	-0.91	+	7.4	3.0/09.1	33906
1995 YM ₃	2000 05 10.6	15 11.53	-07 00.8	16.7	-1.06	+	2.9	4.9/08.4	40310
1990 QQ ₈	2000 05 10.6	15 11.56	-17 41.9	18.4	-0.80	+	2.7	0.0/10.7	34576
1997 TQ ₂₅	2000 05 10.6	15 11.62	-22 14.7	17.2	-0.91	+	6.4	1.6/11.8	34017
1997 RP ₁	2000 05 10.7	15 11.61	-22 45.4	19.0	-1.07	+	3.4	1.8/11.7	31010
(14659)	2000 05 10.7	15 11.71	+01 18.0	15.9	-0.89	+	0.7	7.8/06.8	39893
(10248)	2000 05 10.7	15 11.87	-12 10.8	17.1	-0.94	+	1.7	2.5/09.6	33918
1997 UK ₇	2000 05 10.7	15 11.89	-22 21.6	17.8	-0.95	+	3.5	1.6/11.8	39530
(14315)	2000 05 10.7	15 11.91	+07 00.5	16.9	-0.71	+	6.9	7.8/03.1	39793
1999 CP ₁₃₀	2000 05 10.7	15 11.96	-29 03.9	21.0	-1.02	+	3.4	3.7/13.3	34551
2000 EK ₁₀₄	2000 05 10.8	15 11.98	-08 01.5	17.1	-0.93	-	1.6	3.5/09.2	40182
1999 AC ₂₀	2000 05 10.8	15 12.03	-13 17.7	19.0	-0.90	+	3.4	1.6/09.8	35730
1996 LV ₁	2000 05 10.8	15 12.07	-25 35.7	16.6	-0.89	+	9.9	3.2/13.1	35696
1999 CM ₃₇	2000 05 10.8	15 12.07	-14 01.6	18.9	-0.79	+	2.7	1.1/10.0	35733
1997 UV ₁₄	2000 05 10.8	15 12.08	-11 49.9	17.2	-0.80	+	5.6	2.0/09.3	40320
1994 WA	2000 05 10.8	15 12.28	-13 33.9	17.9	-1.04	+	3.1	1.6/10.0	35692
1994 VW ₆	2000 05 10.8	15 12.43	-13 20.0	15.8	-1.13	+	0.4	2.1/10.1	40307
1993 TF ₃₇	2000 05 10.9	15 12.35	-12 49.8	19.7	-0.89	+	3.5	1.6/09.8	34850
2000 GM ₁₁₉	2000 05 10.9	15 12.56	-04 29.9	20.1	-0.88	+	5.5	5.6/07.5	40271
1998 WW ₉	2000 05 10.9	15 12.58	-14 00.5	17.8	-0.98	+	3.9	1.6/10.1	34932
1997 TK ₂₄	2000 05 10.9	15 12.60	-23 53.9	18.5	-0.92	+	3.4	2.0/12.3	34297
1999 CV ₁₉	2000 05 10.9	15 12.72	-31 50.4	17.5	-1.19	+	3.3	5.6/13.8	34603
1981 EE ₁₅	2000 05 11.0	15 13.06	-24 32.2	19.1	-0.90	+	4.5	2.4/12.6	33540
4517 T-3	2000 05 11.1	15 13.13	-05 17.7	18.5	-0.92	+	5.8	5.8/07.9	40535
(10485)	2000 05 11.1	15 13.24	-14 45.4	17.9	-0.76	+	2.8	0.9/10.4	34432
1986 PO ₂	2000 05 11.1	15 13.38	-04 57.6	19.1	-0.97	+	4.2	4.2/08.1	39936
1999 CL ₃	2000 05 11.1	15 13.38	-02 59.8	17.0	-0.79	+	1.8	4.5/07.9	40352
1997 SC ₃₄	2000 05 11.1	15 13.43	-20 07.0	18.3	-0.90	+	0.2	0.6/11.6	31012
1996 DU ₁	2000 05 11.2	15 13.62	-13 27.9	20.1	-0.98	+	5.3	1.8/10.2	35695
1997 QQ ₄	2000 05 11.2	15 13.64	-20 01.2	18.1	-0.94	+	2.7	0.7/11.7	35701
(9928)	2000 05 11.2	15 13.76	-14 01.8	17.2	-1.05	+	5.2	1.6/10.4	33654

1998 WP ₆ (14660)	2000 05 11.2 2000 05 11.3	15 13.95 15 13.89	-16 42.5 -03 11.7	17.8 15.6	-0.99 + 2.1 -0.93 + 1.3	0.5/11.0 6.4/08.2	34310 39893
1998 VV ₃₂	2000 05 11.3	15 14.00	+05 20.7	16.8	-0.84 - 1.0	7.5/06.8	40346
1999 AT ₃	2000 05 11.3	15 14.03	-07 37.9	18.3	-0.88 + 1.4	3.5/09.2	40064
1999 CG ₇₉	2000 05 11.3	15 14.20	-06 59.5	19.1	-0.81 + 3.8	3.1/08.8	34547
1998 BX ₉	2000 05 11.3	15 14.27	-06 02.5	18.2	-0.83 + 0.6	3.7/09.0	34019
1990 RG ₂	2000 05 11.4	15 14.61	-07 19.4	17.4	-0.75 + 4.9	3.0/08.7	23671
1997 QY ₂ (10287)	2000 05 11.4 2000 05 11.4	15 14.67 15 14.76	-26 52.9 -13 03.3	19.4 17.2	-1.12 + 3.4 -0.99 + 3.0	3.4/13.3 1.7/10.5	34296 34133
1993 BO ₁₀ (9960)	2000 05 11.5 2000 05 11.5	15 14.67 15 14.81	-31 23.3 -09 23.1	17.2 17.3	-0.89 + 2.6 -1.05 + 4.8	4.1/14.5 3.5/09.6	39945 33662
1999 CR ₂₀	2000 05 11.5	15 14.99	-15 24.2	17.6	-0.90 + 2.1	0.9/11.0	40352
1997 WQ (10314)	2000 05 11.5 2000 05 11.6	15 15.11 15 15.38	-16 35.0 +01 24.3	15.9 16.5	-1.09 - 1.7 -0.70 + 4.9	0.6/11.4 5.5/06.5	40321 34139
(13531)	2000 05 11.6	15 15.40	-12 44.9	17.6	-0.77 + 5.0	1.6/10.3	38324
1999 AN ₅	2000 05 11.6	15 15.54	-23 36.2	17.3	-1.14 + 2.3	2.1/12.8	35730
1997 TL ₂₁	2000 05 11.7	15 15.55	-20 37.2	18.9	-1.00 + 2.4	1.2/12.0	31989
1998 SR ₃₅ (10316)	2000 05 11.7 2000 05 11.7	15 15.56 15 15.61	-19 19.8 -20 44.4	18.8 16.6	-1.11 + 2.6 -0.86 + 1.6	0.5/12.0 0.9/12.0	39236 34140
1996 XH ₁	2000 05 11.7	15 15.63	+13 56.4	16.3	-1.69 -20.3	18.4/14.2	38770
1999 BC ₂₆	2000 05 11.7	15 15.74	-18 53.6	18.1	-0.79 + 4.1	7.1/32.0	33990
1999 AS ₆ (10361)	2000 05 11.8 2000 05 11.8	15 16.15 15 16.18	+06 32.0 -11 54.9	18.7 17.8	-0.86 + 1.6 -1.01 + 4.0	7.6/06.5 2.4/10.5	35730 34150
1997 RT ₃ (10143)	2000 05 11.9 2000 05 11.9	15 16.26 15 16.31	-21 10.0 -48 33.3	18.5 16.6	-0.96 + 2.2 -1.16 + 3.4	1.2/12.5 10.0/20.4	30904 33892
1997 NP ₂	2000 05 11.9	15 16.44	-12 53.0	16.7	-0.87 + 7.6	2.7/10.6	39977
1999 BM ₁₂	2000 05 11.9	15 16.52	-44 03.9	18.1	-1.16 + 2.4	8.4/18.1	35443
2083 P-L	2000 05 11.9	15 16.62	-18 13.7	19.7	-0.91 + 4.3	7.4/32.0	35046
1999 CC ₆₃	2000 05 11.9	15 16.67	-17 21.9	16.5	-0.77 + 5.0	0.3/11.8	40352
1997 WZ ₃₀	2000 05 12.0	15 16.63	-15 46.5	17.8	-0.88 + 2.6	0.8/11.5	39530
1999 CA ₉₇	2000 05 12.0	15 16.73	-15 03.8	17.2	-0.82 + 3.5	1.0/11.3	40352
1996 KO	2000 05 12.0	15 16.83	-19 01.5	17.4	-0.95 + 3.2	0.3/12.2	39526
5134 T-3 (10593)	2000 05 12.0 2000 05 12.1	15 17.01 15 17.17	-07 18.0 -15 36.5	19.0 18.4	-1.00 + 3.6 -0.78 + 2.8	4.0/09.8 0.7/11.6	33590 34461
(9947)	2000 05 12.1	15 17.39	-52 30.7	19.0	-1.54 + 0.9	11.5/19.0	33659
1993 DN (9913)	2000 05 12.1 2000 05 12.2	15 17.39 15 17.50	-26 15.3 -16 33.9	17.0 17.8	-1.09 + 5.3 -1.08 + 2.2	3.6/14.0 0.6/11.9	35686 33471
1990 RQ ₈	2000 05 12.2	15 17.68	-19 36.5	18.1	-0.83 + 2.8	0.4/12.6	34006
1997 WL ₂₃	2000 05 12.3	15 17.81	-17 49.7	18.6	-0.92 + 2.8	0.1/12.2	31282
1999 BT ₅	2000 05 12.3	15 18.11	-15 52.9	19.0	-0.92 + 3.8	0.8/11.8	34042
1993 HH ₁	2000 05 12.3	15 18.27	-19 43.0	15.7	-0.93 + 3.8	0.7/12.7	39520
1040 T-2	2000 05 12.3	15 18.29	-17 05.7	17.7	-0.99 + 4.7	0.5/12.1	26912
1998 WC ₃₁ (10501)	2000 05 12.4 2000 05 12.4	15 18.21 15 18.35	-09 11.4 -04 43.7	18.3 16.3	-1.03 + 2.4 -0.83 + 6.6	3.5/10.6 5.7/08.7	33528 34437
1993 HU ₂	2000 05 12.4	15 18.47	-08 26.7	17.1	-0.92 + 4.5	4.8/10.2	40303
1994 UD	2000 05 12.4	15 18.62	-14 11.1	18.2	-1.03 + 2.4	1.4/11.7	34011
1999 BS ₃	2000 05 12.4	15 18.67	-14 49.3	17.9	-0.84 + 3.5	1.2/11.7	34539
1998 YA ₅	2000 05 12.6	15 19.06	-12 43.4	18.6	-0.99 + 4.8	2.5/11.4	33533
1998 XX ₅₀	2000 05 12.6	15 19.17	-19 10.4	19.0	-1.02 + 2.9	0.3/12.8	33716
1998 XG ₉₅ (11299)	2000 05 12.6 2000 05 12.6	15 19.26 15 19.29	-01 43.2 -21 13.6	17.2 17.2	-0.90 + 2.1 -0.94 + 1.8	5.7/09.2 1.1/13.2	40057 39510

2000 APR. 18

M.P.C. 40573

1999 CO ₅₄	2000 05 12.6	15 19.44	-03 41.5	17.6	-0.78	+	3.4	4.4/09.3	40352
1998 XS ₁₀	2000 05 12.7	15 19.41	-11 01.0	20.2	-0.90	+	3.0	2.3/11.2	35727
1993 RC ₂	2000 05 12.7	15 19.50	-33 57.3	19.3	-1.10	+	1.3	4.7/15.7	34290
1998 SA ₁₃	2000 05 12.7	15 19.71	-39 34.5	17.3	-1.03	+	5.8	8.2/18.3	39232
1999 CJ ₅₄	2000 05 12.7	15 19.78	-06 10.2	18.5	-0.73	+	3.3	3.5/09.9	40352
1997 WJ ₁₃	2000 05 12.8	15 19.78	-24 25.7	17.8	-0.83	+	4.9	1.9/14.3	33963
1992 OW	2000 05 12.8	15 19.84	-20 25.8	18.8	-1.07	-	0.2	0.7/13.2	30782
1990 TU ₁₁	2000 05 12.8	15 19.97	-22 08.1	18.3	-1.03	+	3.6	1.4/13.6	35061
1997 SE ₃	2000 05 12.8	15 19.98	-01 04.4	18.9	-0.84	+	5.1	5.5/08.6	35701
1997 VX ₄	2000 05 12.9	15 20.41	-17 34.1	19.7	-0.79	+	2.8	0.2/12.8	31149
2157 T-3	2000 05 12.9	15 20.44	-19 22.1	17.5	-1.03	+	5.5	0.4/13.2	34339
1998 XH ₂₀	2000 05 12.9	15 20.56	+02 47.5	18.3	-0.92	+	0.4	7.4/08.9	35728
6783 P-L	2000 05 12.9	15 20.60	-22 26.5	19.8	-0.93	+	2.1	1.3/13.8	21600
1998 YB ₃	2000 05 13.0	15 20.71	-39 54.0	16.1	-0.92	+	6.7	8.9/19.2	34313
1997 WU ₈	2000 05 13.0	15 20.88	-14 23.8	18.6	-0.88	+	3.6	1.3/12.2	35703
4715 P-L	2000 05 13.0	15 21.00	-12 34.8	18.0	-0.91	+	3.8	2.8/11.8	30775
(10011)	2000 05 13.1	15 21.33	-11 32.2	17.5	-0.94	+	4.4	2.5/11.6	33860
(9984)	2000 05 13.1	15 21.44	-24 03.6	16.4	-0.98	+	4.5	2.3/14.4	33667
1999 AH ₂₆	2000 05 13.2	15 21.36	-19 51.1	17.3	-0.91	+	5.1	0.5/13.5	33734
1994 GD ₁₀	2000 05 13.2	15 21.37	-17 49.1	18.1	-0.83	+	2.5	0.2/13.1	35690
1995 FM ₈	2000 05 13.2	15 21.40	-08 29.5	17.9	-0.85	+	3.2	3.6/11.0	40308
1989 WS	2000 05 13.2	15 21.49	-19 34.7	17.5	-0.91	+	5.7	0.4/13.5	34005
1997 QP ₃	2000 05 13.2	15 21.56	-14 02.2	17.6	-0.96	+	5.2	1.9/12.2	39529
1998 SO ₁₂	2000 05 13.2	15 21.74	-48 38.1	19.2	-1.89	-	3.8	13.6/17.3	35716
1997 VX ₈	2000 05 13.2	15 21.79	-12 39.4	16.5	-1.00		0.0	1.9/12.3	40321
(10148)	2000 05 13.3	15 21.76	-19 00.2	15.6	-0.80	+	2.8	0.2/13.4	33893
1999 CD ₂₁	2000 05 13.3	15 21.92	-21 34.5	18.9	-0.98	+	3.4	1.1/14.0	39299
3277 T-1	2000 05 13.3	15 21.98	-17 49.9	17.0	-0.80	+	3.1	0.2/13.2	34338
1997 WE ₄₇	2000 05 13.3	15 22.19	-08 01.7	18.2	-0.82	+	0.7	3.1/11.4	40321
1999 CX ₈₅	2000 05 13.4	15 22.28	-33 48.4	16.9	-1.18	+	3.4	6.7/16.5	34941
(10435)	2000 05 13.4	15 22.45	-08 13.5	17.6	-0.82	+	5.4	3.3/11.0	40288
1997 UB ₂₁	2000 05 13.5	15 22.54	+01 18.0	19.0	-0.73	+	3.3	5.5/08.8	35944
1999 AU ₅	2000 05 13.5	15 22.88	-09 41.3	18.2	-0.86	+	0.5	3.0/11.9	35730
(9764)	2000 05 13.5	15 22.90	-29 42.6	17.9	-1.12	+	4.9	4.2/16.1	33202
1990 TS ₁₀	2000 05 13.5	15 22.96	-21 43.6	19.6	-1.06	+	3.8	1.3/14.2	40295
1994 VB ₇	2000 05 13.6	15 22.96	-17 47.5	17.9	-0.98	+	4.6	0.3/13.4	34011
1994 PB ₁	2000 05 13.6	15 22.97	-12 20.5	18.3	-1.03	+	4.3	2.4/12.3	35690
1999 CM ₁₀₀	2000 05 13.6	15 23.22	-16 13.2	18.5	-0.77	+	2.5	0.6/13.2	34549
1999 CA ₁₁₀	2000 05 13.6	15 23.28	-13 24.2	17.5	-0.79	+	5.5	1.7/12.4	34257
1991 GO ₄	2000 05 13.7	15 23.44	-27 36.4	16.9	-1.12	-	1.1	3.5/15.1	40296
1995 BV ₁	2000 05 13.8	15 23.72	-38 04.4	16.7	-1.07	+	2.2	8.1/18.0	34012
(9841)	2000 05 13.8	15 23.73	-14 50.5	18.4	-1.07	+	4.0	1.5/13.0	33455
(10202)	2000 05 13.8	15 23.95	-13 08.3	16.9	-0.96	+	6.2	2.2/12.6	39510
1994 PR ₃₉	2000 05 13.8	15 24.04	-12 31.5	18.8	-1.08	+	4.7	2.5/12.6	34291
1997 TJ ₁₉	2000 05 13.8	15 24.13	-19 48.0	17.3	-0.93	+	1.6	0.4/14.1	40320
1998 CS ₂	2000 05 13.8	15 24.15	-11 12.8	17.5	-0.85	+	1.9	2.4/12.4	34301
1999 CJ ₃₄	2000 05 13.9	15 24.29	-12 53.7	18.0	-0.96	+	3.3	2.2/12.7	35733
1988 RN ₄	2000 05 13.9	15 24.47	-41 52.0	15.4	-1.04	-	1.0	11.6/18.2	40293
1999 CK ₁₀₄	2000 05 13.9	15 24.52	-19 12.4	19.0	-0.81	+	3.1	0.2/14.1	34606
1992 HO	2000 05 13.9	15 24.58	-13 56.2	19.7	-0.96	+	3.4	1.7/13.0	38441
1999 AT ₃₁	2000 05 14.0	15 24.72	-21 06.1	17.7	-0.87	+	2.8	0.8/14.6	34600

(9769)	2000 05 14.1	15 24.93	-05 58.2	16.4	-0.99	+	2.3	6.0/11.7	33203
(11078)	2000 05 14.1	15 25.15	-21 03.9	15.8	-0.81	+	7.8	0.8/14.8	35232
1995 BU ₂	2000 05 14.2	15 25.33	-41 11.6	15.9	-1.07	+	5.3	9.2/19.9	34012
1999 AE ₂₁	2000 05 14.2	15 25.38	+01 18.4	18.8	-0.93	+	1.8	6.3/10.1	34315
1998 YZ ₂₉	2000 05 14.2	15 25.50	-14 46.6	16.7	-0.90	-	0.1	1.3/13.6	40351
1997 QC	2000 05 14.2	15 25.69	-23 45.3	17.6	-1.02	+	5.8	2.0/15.4	33501
1999 CT ₄₂	2000 05 14.3	15 25.72	-20 43.3	18.3	-0.88	+	2.7	0.7/14.7	35733
(10095)	2000 05 14.3	15 25.77	-13 34.7	16.4	-0.78	+	6.0	1.7/13.0	33880
1997 WO ₇	2000 05 14.3	15 25.81	-17 10.3	17.2	-0.87	+	0.5	0.5/14.0	34299
1999 CJ ₈₁	2000 05 14.3	15 25.97	-17 20.3	18.6	-0.89	+	4.2	0.4/14.1	35733
1978 RV ₇	2000 05 14.3	15 25.99	-13 59.4	17.8	-0.83	+	4.5	2.0/13.3	21251
1997 UJ ₁	2000 05 14.3	15 26.04	-21 48.9	19.6	-0.93	+	2.3	1.0/15.0	34017
1993 BG ₆	2000 05 14.3	15 26.10	-22 29.2	17.9	-1.11	+	4.1	1.6/15.1	35686
(9892)	2000 05 14.3	15 26.13	-27 47.5	15.8	-0.98	+	7.0	4.4/16.7	33467
1992 UO ₆	2000 05 14.4	15 26.19	-09 37.0	18.1	-0.87	+	1.9	2.8/12.6	31103
1999 BL ₂₅	2000 05 14.4	15 26.33	-07 48.6	17.1	-0.89	+	5.3	4.6/11.9	40352
1999 CF ₁	2000 05 14.4	15 26.45	-09 37.1	19.6	-1.00	+	3.2	3.2/12.6	40352
1991 RJ ₂₂	2000 05 14.5	15 26.87	-10 43.8	16.3	-1.11	+	3.6	3.7/13.0	40297
1998 XL ₅₂	2000 05 14.5	15 26.94	-21 06.8	17.9	-1.02	+	2.4	0.9/15.0	34033
1998 XM ₇₃	2000 05 14.6	15 27.02	-23 27.1	17.6	-1.05	+	1.0	1.7/15.5	34598
1999 CA ₄	2000 05 14.6	15 27.13	-28 58.4	16.1	-0.97	+	0.1	3.5/16.4	39550
1993 RR	2000 05 14.7	15 27.38	-27 27.7	20.8	-1.00	+	2.3	2.5/16.4	30897
1997 CE ₁₈	2000 05 14.7	15 27.40	-06 54.8	19.7	-0.63	+	2.7	2.7/12.0	39974
1997 WM ₁	2000 05 14.7	15 27.56	-26 39.2	17.2	-0.84	+	4.4	2.3/16.6	35703
1999 CB ₄₃	2000 05 14.9	15 28.42	-16 56.5	16.6	-0.83	+	2.4	0.7/14.6	39550
1999 CX ₁	2000 05 14.9	15 28.52	+04 56.7	17.0	-0.91	+	1.6	7.9/09.9	40352
(10216)	2000 05 15.0	15 28.46	-10 13.0	17.8	-0.85	+	3.2	2.7/13.2	33910
1991 VO ₁	2000 05 15.0	15 28.50	-10 47.4	17.3	-1.04	+	2.6	3.1/13.5	40298
1998 VL ₃₁	2000 05 15.0	15 28.65	-09 38.6	17.0	-1.07	-	2.7	3.8/13.9	40346
1981 EP ₄	2000 05 15.0	15 28.69	-11 21.6	18.6	-0.82	+	7.0	2.7/13.2	26915
2171 T-1	2000 05 15.0	15 28.74	-15 45.9	20.4	-0.79	+	2.4	0.9/14.4	36868
1997 VZ	2000 05 15.1	15 28.91	-20 33.8	18.1	-0.84	+	1.6	0.5/15.4	35432
2000 GV ₁₂₅	2000 05 15.1	15 28.93	-06 27.5	16.7	-0.98	+	4.6	5.5/12.3	40271
1998 YN ₆	2000 05 15.1	15 29.07	+14 34.4	17.8	-0.77	+	0.1	10.1/07.9	40350
1981 EY ₄₂	2000 05 15.1	15 29.15	-18 27.0	18.3	-0.94	+	3.8	0.2/15.1	30780
1996 GA	2000 05 15.1	15 29.20	-33 00.0	16.1	-1.29	-	5.3	6.8/16.6	40312
1992 LS	2000 05 15.1	15 29.24	-15 10.5	16.6	-0.92	+	5.4	1.6/14.3	39518
1985 CU ₁	2000 05 15.1	15 29.37	-56 19.1	18.9	-1.63	+	2.6	12.2/24.4	34574
1993 RH ₅	2000 05 15.2	15 29.28	-25 50.1	19.4	-1.00	+	2.8	2.3/16.6	34190
5080 T-2	2000 05 15.2	15 29.29	-25 01.9	18.1	-1.02	+	6.5	2.8/16.6	33059
1999 BB ₂	2000 05 15.2	15 29.31	-37 04.8	18.1	-1.09	+	2.7	5.5/19.1	38542
1992 SH	2000 05 15.2	15 29.36	-03 50.4	16.1	-0.81	+	7.6	5.9/11.1	40300
1992 AS ₂	2000 05 15.2	15 29.37	-15 09.0	18.1	-0.98	+	2.8	1.7/14.5	34839
1999 AZ ₅	2000 05 15.2	15 29.43	-16 41.0	18.5	-0.81	+	2.8	0.7/14.8	35730
(10644)	2000 05 15.2	15 29.59	-16 38.1	17.0	-0.92		0.0	0.7/14.9	34474
1994 UX ₁	2000 05 15.2	15 29.63	-17 40.5	17.8	-1.05	+	2.7	0.5/15.0	35692
1992 ER ₁₇	2000 05 15.2	15 29.64	-21 49.3	17.7	-1.03	+	3.6	1.0/15.9	35422
(10378)	2000 05 15.2	15 29.66	-19 58.2	17.3	-0.86	+	3.3	0.3/15.5	34154
1997 VE ₈	2000 05 15.2	15 29.66	-24 12.9	16.8	-0.98	+	2.7	2.1/16.3	35703
1998 UA ₂₃	2000 05 15.2	15 29.67	-18 45.7	17.3	-1.05	+	2.2	0.1/15.3	36085
3052 P-L	2000 05 15.3	15 29.76	-34 20.1	17.8	-0.95	+	2.6	5.0/18.5	28607

1999 DQ	2000 05 15.3	15 29.88 +05 15.8 19.8	-0.73 + 3.6	7.1/09.5	34607
1989 TY ₂	2000 05 15.3	15 29.99 -16 40.3 17.6	-0.98 + 1.6	0.9/15.0	34284
1999 BK ₁₃	2000 05 15.4	15 30.20 +01 26.8 17.9	-0.71 + 3.6	5.4/10.6	40351
1997 RB ₁	2000 05 15.4	15 30.24 -24 29.4 16.9	-1.01 + 5.8	2.6/16.7	34873
1999 AR ₄	2000 05 15.4	15 30.32 -07 11.8 18.9	-0.88 + 1.8	3.7/13.2	40351
(10180)	2000 05 15.5	15 30.49 -12 47.4 18.1	-1.01 + 4.7	2.4/14.2	33900
(10442)	2000 05 15.5	15 30.61 -05 00.0 17.5	-0.73 + 4.0	4.2/12.3	34169
(10225)	2000 05 15.5	15 30.67 -21 22.8 17.0	-0.85 + 5.3	0.8/16.1	33912
1997 QU ₄	2000 05 15.5	15 30.77 -30 07.3 18.8	-1.11 + 3.0	3.9/17.7	34586
1362 T-2	2000 05 15.6	15 30.94 -26 39.7 19.8	-1.14 + 1.8	3.0/17.0	24237
1977 AC ₂	2000 05 15.6	15 31.07 -36 46.9 17.7	-1.05 + 3.2	5.5/19.4	35676
1999 BK ₈	2000 05 15.6	15 31.28 -18 32.1 16.9	-1.12 + 1.7	0.2/15.6	40351
(10214)	2000 05 15.7	15 31.21 -12 43.2 18.5	-0.85 + 3.7	1.9/14.3	33909
1998 WE ₂₄	2000 05 15.7	15 31.43 -31 52.9 18.0	-0.87 + 4.5	3.6/18.7	35442
2190 T-1	2000 05 15.7	15 31.63 -21 46.1 17.9	-1.01 + 1.7	1.0/16.3	22087
(10054)	2000 05 15.7	15 31.72 -28 23.8 16.6	-1.19 + 2.3	4.0/17.0	33871
(9966)	2000 05 15.8	15 31.67 -17 41.2 17.9	-1.00 + 4.2	0.5/15.5	33663
1997 PY ₂	2000 05 15.8	15 31.83 -13 04.9 18.5	-1.02 + 1.1	2.3/14.8	34016
(13816)	2000 05 15.8	15 31.89 -19 04.0 17.7	-0.92 + 8.0	0.0/15.9	38404
1991 AL ₂	2000 05 15.8	15 32.05 -05 45.7 17.0	-0.89 + 6.8	5.0/12.7	40296
1993 TT ₄₁	2000 05 15.9	15 32.26 -09 50.0 19.1	-0.87 + 4.0	3.2/14.0	34290
1056 T-2	2000 05 15.9	15 32.27 -24 17.8 19.1	-0.92 + 2.5	1.7/17.0	23131
1999 CV ₇₉	2000 05 15.9	15 32.27 -29 20.4 17.9	-0.85 + 3.7	3.1/18.2	34251
4194 T-2	2000 05 15.9	15 32.37 -12 34.6 17.4	-0.85 + 3.2	2.6/14.6	36124
1996 TX ₃₈	2000 05 15.9	15 32.40 -20 11.6 15.2	-0.87 0.0	0.5/16.2	33255
1993 FZ ₇	2000 05 16.0	15 32.57 -19 21.9 18.0	-1.11 + 1.7	0.1/16.1	33548
(12811)	2000 05 16.0	15 32.71 -34 53.0 18.1	-1.23 + 2.7	6.1/19.1	37066
1998 UJ	2000 05 16.0	15 32.76 -58 00.8 19.3	-1.76 + 1.4	13.3/25.5	35721
1999 CD ₇₆	2000 05 16.0	15 32.83 -08 57.6 19.8	-0.84 + 3.5	3.0/14.0	34547
1981 EM ₃₈	2000 05 16.1	15 32.84 -25 15.2 19.6	-0.93 + 3.6	2.0/17.4	34003
(10055)	2000 05 16.1	15 32.90 -18 29.2 18.2	-0.84 + 2.9	0.2/16.0	33871
2185 T-2	2000 05 16.1	15 32.93 -20 07.4 18.4	-0.78 + 2.4	0.3/16.3	31161
(10897)	2000 05 16.1	15 33.16 -15 19.7 17.3	-0.85 + 3.2	1.2/15.4	34796
2000 ES ₉₇	2000 05 16.1	15 33.20 -10 37.5 15.9	-0.76 + 8.8	3.4/13.8	40181
1993 UF	2000 05 16.2	15 33.50 +05 30.5 17.8	-0.93 + 2.3	8.9/10.8	40304
(10386)	2000 05 16.2	15 33.63 -34 54.7 16.6	-1.09 - 2.8	4.9/18.3	34156
6120 P-L	2000 05 16.2	15 33.65 -13 05.6 19.1	-0.94 + 4.8	2.2/15.0	31001
1990 QU ₉	2000 05 16.3	15 33.82 -41 51.6 17.0	-1.07 0.0	7.6/20.3	34285
(10156)	2000 05 16.3	15 33.84 -18 36.2 17.8	-1.05 + 4.9	0.2/16.2	33895
1998 WJ ₃	2000 05 16.4	15 34.04 -04 03.6 16.5	-0.96 - 1.6	5.8/14.2	40347
1220 T-2	2000 05 16.4	15 34.32 -19 21.5 19.6	-0.77 + 2.7	0.0/16.5	30285
1997 ST ₁₇	2000 05 16.4	15 34.36 -14 38.6 17.9	-1.01 + 4.1	1.9/15.5	39981
1997 UY ₁₀	2000 05 16.5	15 34.75 -17 35.6 18.2	-0.83 + 3.1	0.5/16.2	40320
1993 VP	2000 05 16.5	15 34.79 -29 06.1 18.1	-1.07 0.0	3.2/18.2	34581
1998 VJ ₃₁	2000 05 16.6	15 34.84 -20 52.7 19.3	-1.06 + 3.9	0.6/17.0	33517
(11196)	2000 05 16.6	15 34.84 -18 45.8 16.8	-0.88 + 4.5	0.2/16.5	35262
1981 EL ₂₉	2000 05 16.6	15 34.99 -12 26.5 19.3	-0.90 + 6.0	3.1/15.1	26920
1996 BE ₂	2000 05 16.6	15 35.21 -13 07.7 15.9	-1.08 0.0	2.8/15.7	40311
1997 QG ₁	2000 05 16.7	15 35.49 -17 04.4 16.6	-0.91 + 6.3	1.0/16.3	33557
1993 TG ₂₇	2000 05 16.7	15 35.64 -13 06.9 19.3	-0.92 + 3.3	2.0/15.6	32232
1999 CR ₃₅	2000 05 16.7	15 35.64 -16 32.2 17.1	-0.91 - 0.2	0.9/16.3	40352

1998 WL ₇	2000 05 16.8	15 35.82 -39 49.0 18.8	-1.22 + 8.5	6.7/22.1	35726
1995 GV ₂	2000 05 16.8	15 35.83 -11 37.1 18.2	-0.86 + 2.9	2.6/15.3	38765
1997 UV	2000 05 16.8	15 35.87 -18 00.9 18.5	-0.81 + 2.8	0.4/16.6	35702
1992 SV ₂₄	2000 05 16.8	15 35.98 -16 57.2 18.6	-0.86 + 4.6	0.7/16.4	34186
1996 CY ₇	2000 05 16.8	15 36.00 -14 42.2 17.0	-0.94 + 1.5	2.3/16.1	33554
1999 CJ ₅	2000 05 17.1	15 36.93 -29 21.7 17.7	-0.94 + 0.8	3.0/18.9	35642
(10333)	2000 05 17.2	15 37.20 -13 39.0 17.6	-0.83 + 2.4	1.7/16.1	34144
(9997)	2000 05 17.2	15 37.24 -23 17.6 17.4	-0.98 + 3.1	1.4/18.0	33670
1998 WD ₂₃	2000 05 17.2	15 37.28 -19 45.5 16.8	-1.04 + 6.3	0.2/17.3	35727
1999 CP ₆₂	2000 05 17.3	15 37.68 +03 17.0 18.4	-0.86 + 2.9	7.2/12.6	40352
1995 AZ ₃	2000 05 17.3	15 37.82 -28 22.9 16.6	-1.04 + 3.2	3.7/19.1	34012
1994 PW ₁₄	2000 05 17.3	15 37.83 -12 44.8 18.5	-1.02 + 4.1	2.7/16.0	33689
1984 ST ₂	2000 05 17.3	15 37.98 -30 56.8 17.1	-1.23 + 2.4	4.8/19.3	35678
(9885)	2000 05 17.4	15 38.11 -12 59.3 16.8	-0.96 + 5.4	2.5/16.0	33465
1999 CC	2000 05 17.4	15 38.26 -17 53.7 18.9	-1.04 + 2.0	0.5/17.2	34601
1998 WM ₁₉	2000 05 17.4	15 38.42 -16 52.1 18.6	-0.92 + 3.9	0.8/17.0	35727
1999 AU ₃₀	2000 05 17.4	15 38.43 -11 17.4 20.1	-0.99 + 3.0	2.7/16.0	35731
(10396)	2000 05 17.5	15 38.50 -21 52.4 17.6	-0.83 + 1.7	0.7/18.0	34159
1998 XX ₈	2000 05 17.5	15 38.78 -14 48.4 17.6	-1.01 + 2.5	1.9/16.7	35727
(10494)	2000 05 17.6	15 38.77 -19 47.2 18.2	-1.04 + 2.4	0.1/17.7	34435
(9933)	2000 05 17.6	15 38.91 -25 54.1 17.1	-1.16 + 4.1	2.6/18.8	33655
1999 AP ₄	2000 05 17.6	15 39.12 +04 48.5 16.8	-0.94 - 0.3	9.4/13.2	40064
3391 T-3	2000 05 17.6	15 39.17 -18 04.1 19.9	-1.04 + 4.0	0.5/17.4	34275
1994 AZ ₄	2000 05 17.7	15 39.18 -16 20.2 17.5	-0.86 + 1.9	1.2/17.1	36070
(11198)	2000 05 17.7	15 39.40 -24 01.8 17.0	-0.94 - 0.2	1.5/18.5	35262
1992 RV	2000 05 17.7	15 39.42 -28 30.9 17.8	-1.00 + 1.1	2.9/19.3	34498
(10026)	2000 05 17.7	15 39.45 -07 21.8 16.9	-0.88 + 5.9	4.8/14.9	33864
1996 ED	2000 05 17.7	15 39.46 -25 32.3 17.6	-1.14 + 1.9	2.3/18.8	35695
1999 CR ₇₄	2000 05 17.8	15 39.71 -07 54.4 17.8	-0.75 + 4.1	3.7/15.3	40352
1997 UU ₈	2000 05 17.8	15 39.90 -17 00.7 19.0	-0.80 + 2.2	0.7/17.4	34587
1996 LV ₃	2000 05 17.8	15 39.96 -17 49.2 16.8	-1.02 + 1.6	0.7/17.6	34014
1999 CK ₁₉	2000 05 17.8	15 39.98 -27 08.8 16.2	-1.07 + 2.8	3.3/19.3	35732
1980 PE ₃	2000 05 17.9	15 40.33 -15 06.6 16.0	-1.14 - 5.7	2.0/17.6	40289
1979 XL	2000 05 18.0	15 40.34 -09 32.5 17.3	-0.89 + 0.6	3.3/16.3	40289
1997 TZ ₉	2000 05 18.0	15 40.54 -24 36.6 19.0	-1.00 + 1.3	1.7/18.9	33955
1998 XY ₅₀	2000 05 18.0	15 40.65 -17 47.1 19.4	-1.07 + 2.0	0.6/17.8	33717
1993 SA ₂	2000 05 18.0	15 40.80 -36 04.9 17.8	-1.19 + 2.0	6.5/20.9	34290
1991 RX ₂₅	2000 05 18.1	15 40.79 -14 14.4 16.7	-1.15 + 1.8	2.4/17.2	34007
(14665)	2000 05 18.1	15 40.89 +04 13.2 15.6	-0.97 - 1.6	10.1/14.1	39894
(10000)	2000 05 18.1	15 40.96 +08 39.7 19.9	-0.87 + 5.3	8.8/10.7	33858
1989 SP ₁	2000 05 18.1	15 40.96 -10 59.1 17.0	-0.92 + 2.4	3.5/16.6	40294
3129 T-3	2000 05 18.1	15 41.02 -17 59.5 19.0	-0.96 + 2.7	0.6/17.9	34275
1994 VE	2000 05 18.1	15 41.04 -28 02.3 16.8	-1.20 - 1.5	3.5/19.3	34291
1999 AL ₈	2000 05 18.1	15 41.10 -11 21.3 18.5	-1.02 + 2.8	3.0/16.7	38541
1999 CW	2000 05 18.2	15 41.27 -08 50.8 17.0	-0.78 + 1.7	3.3/16.2	40352
1996 JT ₃	2000 05 18.2	15 41.36 -12 25.9 17.5	-0.98 + 4.7	2.8/16.7	34014
1997 MP ₃	2000 05 18.2	15 41.44 -09 51.0 17.8	-1.05 + 2.5	4.8/16.5	40318
1997 UA ₅	2000 05 18.2	15 41.47 -24 10.6 17.7	-1.18 + 0.1	1.9/18.9	31147
1997 XL ₁₀	2000 05 18.2	15 41.57 -15 09.9 17.6	-0.87 + 0.3	1.3/17.6	40321
1981 EV ₂₅	2000 05 18.2	15 41.60 -07 57.6 17.7	-0.84 + 4.1	3.8/15.8	40290
1999 AU ₂	2000 05 18.3	15 41.68 -23 52.9 18.2	-1.00 + 1.3	1.4/19.0	35730